

## **Fleet Site**

**Block 433, Lots 12, 31, 35, 36, 37, 38 and 39**

**Queens, New York 11101**

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# **Remedial Investigation Report**

### **Prepared for:**

Hunter GC, L.L.C.

666 Fifth Avenue, 5<sup>th</sup> Floor

New York, New York 10103

FLS Project Number: 10020-011

### **Prepared by:**

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October 2012

# REMEDIAL INVESTIGATION REPORT

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## LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

# CERTIFICATION

I, Arnold F. Fleming, P.E. am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Long Island City Property Site, NYC VCP Site Number 13CVCPQ. I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Arnold F. Fleming \_\_\_\_\_

Qualified Environmental Professional

Date

Signature

# EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

## Site Location and Current Usage

The Site consists of seven lots within the block bounded by Jackson Ave., Crescent St., Hunter Ave. and 43rd Ave. located in the Long Island City section of Queens, New York. The Site is identified as Block 433 and Lots 12, 31, 35, 36, 37, 38 and 39 on the New York City Tax Map. The property is currently occupied by a parking lot and by 1-3 story buildings housing commercial, retail and light industrial businesses, the majority of which are currently vacant. Figure 1 shows the Site location. The Site is approximately 47,800-square feet and is bounded by Jackson Avenue and a series of 1 to 4-story buildings to the south, Hunter Street to the north, 43rd Avenue to the east, and 44th Drive to the west. A map of the Site layout is provided as Figure 2.

The 7 individual lots that comprise the subject property are:

- **Lot 12** -- Lot 12 is known as 20-25 and 25-25 44<sup>th</sup> Drive, covers an area of 20,000 square feet, and is developed with a 1-story 4,320-square foot building with a basement. The building is constructed of a steel frame with concrete floors, concrete and corrugated metal ceilings, and a brick and glass exterior. The building is currently occupied as an art gallery and office space. The remainder of the lot consists of an asphalt-paved parking lot enclosed by a chain link and wood fence. Landscaping is located along the southern perimeter of the lot.
- **Lot 31** -- Lot 31 is known as 43-25 Hunter Street, covers an area of 14,292 square feet, and is developed with a 2-story 20,000-square foot building. This lot has frontage on the south side of Hunter Street and the north side of Jackson Avenue. The building is constructed of a steel frame with concrete floors, concrete ceilings, and a brick exterior. The building is currently vacant and was most recently occupied as a medical diagnostic laboratory operated by Central Laboratories Inc.
- **Lot 35** -- Lot 35 is known as 43-15 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,992-square foot building with a basement and a rear

yard. The building is constructed of wood framing with a concrete basement floor, brick bearing walls, and a wood exterior. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with carpeting and vinyl tile. The building is currently vacant.

- **Lot 36** -- Lot 36 is known as 43-11 Hunter Street, covers an area of 2,500 square feet, and is developed with a 1-story 680-square foot building with a basement and a rear yard. The building is constructed of wood framing with a concrete basement floor, and an exterior of composition shingles. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with vinyl tile. The building is currently vacant, in a state of disrepair, and scheduled for demolition.
- **Lot 37** -- Lot 37 is known as 43-09 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,900-square foot 2-unit residential building with a basement and a rear yard. On the date of the remedial investigation, this building was occupied by residential tenants and access to this building was not provided.
- **Lot 38** -- Lot 38 is known as 27-02 43<sup>rd</sup> Avenue, covers an area of 2,000 square feet, and is developed with a 2-story 4,000-square foot building with a basement. This building has a sign that reads “Hunter Auto Sales and Service”, appears to be occupied as an auto repair shop, and has three garage bay doors located on its northern façade along Hunter Avenue.
- **Lot 39** -- Lot 39 is known as 27-06 43<sup>rd</sup> Avenue, covers an area of 4,000 square feet, and is developed with a 1-story 4,000-square foot garage building with a small basement vault. The building is constructed of concrete block and brick bearing walls, concrete floors, a wood ceiling, and some plaster interior walls. Two large bay doors are present on the eastern side of the building along 43<sup>rd</sup> Avenue.

### **Summary of Proposed Redevelopment Plan**

Lots 12, 31, 35, 36, 37, 38, 39 and 41 are scheduled for demolition. The proposed future use of the Site will consist of a multi-level building with one cellar level. The footprint of the development will cover substantially the entire lot; the layout of the proposed development can be seen on the site boundary map, Figure 2. The current zoning designation is M1-6/R10, mixed use light manufacturing district where residential and non-residential uses are permitted, allowing a commercial floor area ratio of 10.0 or a residential floor area ratio of up to 10.0. The proposed use is consistent with existing zoning for the property.

The proposed development will consist of a multi-level building with one cellar level. A 50-story tower will be located on the corner of Hunter Street, 44<sup>th</sup> Drive and “Rafferty Triangle”. A 15-story tower will be located along Hunter Street. A 6-story podium building will be located along Hunter Street. The development also includes an approximately 4,300 square-foot courtyard. The cellar will be approximately 12 feet deep.

The first floor of the towers will be used for commercial purposes, residential lobby, and parking.

### **Summary of Past Uses of Site and Areas of Concern**

- **Lot 12** -- This building was constructed in 1963 and was originally occupied as a bank. Prior to 1963 this lot was undeveloped.
- **Lot 31** -- This building was constructed in 1960 as a commercial loft building. Prior to 1960 this lot was undeveloped. The building was most recently occupied as a medical diagnostic laboratory by Central Laboratories Inc.
- **Lot 35** -- This building was constructed in 1923 and appears to have always been used for residential purposes.
- **Lot 36** -- This building was constructed prior to 1898, was originally occupied as a dwelling, was later occupied as an office, and appears to have recently been used as a contractor’s office.
- **Lot 37** -- This building was constructed between 1936 and 1947, and appears to have always been used for residential purposes. Prior to 1936, this lot was developed with a dwelling.
- **Lot 38** -- This building was constructed in 1934, and has a history of auto-related and manufacturing use. Prior to 1934, this lot was developed with two dwellings.
- **Lot 39** -- This building was constructed in 1949 and has a history of auto-related use. Prior to 1949 this lot was undeveloped.

The Areas of Concern (AOCs) include:

- Historic fill material; and
- Areas of auto, manufacturing, and laboratory uses.

- Unlabeled manway observed on the concrete floor of the 1-story garage building on Lot 39, believed to be associated with an underground storage tank or oil/water separator.

### **Summary of the Work Performed under the Remedial Investigation**

FLS, on behalf of Hunter GC L.L.C. performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 10 soil borings across the entire project Site, and collected 20 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 temporary groundwater monitoring points and 2 permanent groundwater monitoring wells throughout the Site to establish groundwater flow and collected 5 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 4 soil vapor probes around Site perimeter and collected 4 samples for chemical analysis.
5. Additional sampling will be conducted after building demolition and prior to new construction.

### **Summary of Environmental Findings**

1. Elevation of the property ranges from 10.08 to 10.41 feet.
2. Depth-to-groundwater ranges from 12.0 to 16.4 feet at the Site.
3. Groundwater flow is generally from north to south beneath the Site.
4. According to the geotechnical report conducted by RA Consultants LLC, bedrock was encountered at various depths and elevations across the site. Depth-to-bedrock ranged from 24 to 53.5 feet.
5. The stratigraphy of the site consists of 5-15 feet fill material, comprising a mixture of gravel, sand, silt, bricks, concrete fragments and other construction debris, underlain by layers of silty sand, clay, silt, peat and organic soils, glacial till and bedrock.

6. Soil/ fill samples collected during the RI showed no detectable concentrations of PCBs. No volatile organic compounds (VOCs) were detected above Track 1 Unrestricted Use SCOs. Trichloroethylene (TCE), the only chlorinated VOC detected in soil, was found at trace levels (maximum concentration of 0.0145 ppm) in two samples. Three pesticides, 4,4-DDE, 4,4-DDE, and 4,4-DDT, were detected above Track 1 Unrestricted Use SCOs, but well below their Track 2 Restricted Residential SCOs. The SVOC analyses identified concentrations of five SVOCs above Track 1 Unrestricted Use SCOs in 4 shallow soil samples. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above Restricted Residential SCOs. The SVOCs identified above Restricted Residential SCOs are all PAH compounds, and their concentrations (less than 2.5 ppm) and distributions indicate that they are associated with historic fill material observed during the sampling. The metals analyses identified the presence of nine metals at concentrations exceeding Track 1 SCOs in shallow and deep soil samples. Concentrations of barium (max of 2790 ppm), copper (max of 4100 ppm), lead (max of 1310 ppm), and mercury (max of 1.8 ppm) also exceed Track 2 Restricted Residential SCOs. Overall, the findings are consistent with observations of other sites with urban fill material in areas throughout NYC.
7. No detectable concentrations of PCBs or pesticides were identified in groundwater, and no VOCs or SVOCs were detected above GQs. The only VOC detected in groundwater was acetone, and the only SVOCs detected in groundwater were phthalates. Acetone and phthalates are common laboratory contaminants and are not indicative of site conditions. The analysis of filtered and unfiltered groundwater samples for metals identified iron, manganese and sodium at concentrations exceeding GQs, which are indicative of regional groundwater impacts due to saline intrusion, rather than an on-Site impact. The RI indicates that groundwater is not impacted by site conditions and did not reveal any sources of contaminants on Site.
8. The soil vapor analytical results were compared to values presented in the NYSDOH Final Guidance on Soil Vapor Intrusion (October 2006). The soil vapor sample analyses identified the presence of several petroleum related and chlorinated VOCs. Trichloroethylene (TCE) and tetrachloroethylene (PCE) at levels exceeding the NYSDOH guidance values. TCE was identified in 3 of 4 samples at a maximum

concentration of 2330 ug/m<sup>3</sup>, and PCE was identified in all 4 samples at a maximum concentration of 614 ug/m<sup>3</sup>. Chlorinated VOCs were not identified in groundwater, and TCE was identified only at trace levels in soil. Petroleum-related VOCs were identified at concentrations as high as 3010 ug/m<sup>3</sup> for toluene and 2530 ug/m<sup>3</sup> for xylenes. Soil vapor samples were collected at the proposed excavation depth of 12-feet.

# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

This Remedial Investigation Report (RIR) summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

### 1.1 Site Location and Current Usage

The Site consists of seven lots within the block bounded by Jackson Ave., Crescent St., Hunter Ave. and 43rd Ave. located in the Long Island City section of Queens, New York. The Site is identified as Block 433 and Lots 12, 31, 35, 36, 37, 38 and 39 on the New York City Tax Map. The property is currently occupied by a parking lot and by 1-3 story buildings housing commercial, retail and light industrial businesses, the majority of which are currently vacant. Figure 1 shows the Site location. The Site is approximately 47,800-square feet and is bounded by Jackson Avenue to the south, Hunter Street to the north, 43rd Avenue to the east, and 44th Drive to the west. A map of the Site layout is provided as Figure 2.

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- **Lot 35** -- Lot 35 is known as 43-15 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,992-square foot building with a basement and a rear yard. The building is constructed of wood framing with a concrete basement floor, brick bearing walls, and a wood exterior. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with carpeting and vinyl tile. The building is currently vacant.
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- **Lot 37** -- Lot 37 is known as 43-09 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,900-square foot 2-unit residential building with a basement and a rear yard. On the date of the remedial investigation, this building was occupied by residential tenants and access to this building was not provided.
- **Lot 38** -- Lot 38 is known as 27-02 43<sup>rd</sup> Avenue, covers an area of 2,000 square feet, and is developed with a 2-story 4,000-square foot building with a basement. This building has a sign that reads “Hunter Auto Sales and Service”, appears to be occupied as an auto repair shop, and has three garage bay doors located on its northern façade along Hunter Avenue.
- **Lot 39** -- Lot 39 is known as 27-06 43<sup>rd</sup> Avenue, covers an area of 4,000 square feet, and is developed with a 1-story 4,000-square foot garage building with a small basement vault. The building is constructed of concrete block and brick bearing walls, concrete floors, a wood ceiling, and some plaster interior walls. Two large bay doors are present on the eastern side of the building along 43<sup>rd</sup> Avenue.

## 1.2 Proposed Redevelopment Plan

Lots 12, 31, 35, 36, 37, 38 and 39 are scheduled for demolition. The proposed future use of the Site will consist of multi-level building with one cellar level. The footprint of the development will cover substantially the entire lot; the layout of the proposed development can be seen on the site boundary map, Figure 2. The current zoning designation is M1-6/R10, mixed use light manufacturing district where residential and non-residential uses are permitted, allowing a commercial floor area ratio of 10.0 or a residential floor area ratio of up to 10.0. The proposed use is consistent with existing zoning for the property.

The proposed development will consist of a multi-level building with one cellar level. A 50-story tower will be located on the corner of Hunter Street, 44<sup>th</sup> Drive and “Rafferty Triangle”. A 15-story tower, identified will be located along Hunter Street. A 6-story podium building will be located along Hunter Street. The development also includes an approximately 4,300 square-foot courtyard. The cellar depth will be approximately 12 feet.

The first floor of the towers will be used for commercial purposes, residential lobby, and parking.

### **1.3 Description of Surrounding Property**

According to the data available in OER’s *SPEED* application, no schools, hospitals or day care facilities are located within a 250-foot radius. The Site appears on the City of New York Department of City Planning Zoning Map 9b. According to this map, the property is designated M1-6/R10, which is designated as a mixed use light manufacturing district where residential and non-residential uses are permitted. The use of the surrounding properties is mainly commercial with some residential uses as well.

## 2.0 SITE HISTORY

### 2.1 Past Uses and Ownership

The Site consists of seven lots within the block bounded by Jackson Ave., Crescent St., Hunter Ave. and 43rd Ave. located in the Long Island City section of Queens, New York. The Site is identified as Block 433 and Lots 12, 31, 35, 36, 37, 38 and 39 on the New York City Tax Map. The property is currently occupied by a parking lot and by 1-3 story buildings housing commercial, retail and light industrial businesses, the majority of which are currently vacant. Figure 1 shows the Site location. The Site is approximately 47,800-square feet and is bounded by Jackson Avenue to the south, Hunter Street to the north, 43rd Avenue to the east, and 44th Drive to the west. A map of the Site layout is provided as Figure 2.

- **Lot 12** -- This building was constructed in 1963 and was originally occupied as a bank. Prior to 1963 and as early as 1898, this lot was undeveloped.
- **Lot 31** -- This building was constructed in 1960 as a commercial loft building. Prior to 1960 and as early as 1898, this lot was undeveloped. The building was most recently occupied as a medical diagnostic laboratory by Central Laboratories Inc.
- **Lot 35** -- This building was constructed in 1923 and appears to have always been used for residential purposes.
- **Lot 36** -- This building was constructed prior to 1898, was originally occupied as a dwelling, was later occupied as an office, and appears to have recently been used as a contractor's office.
- **Lot 37** -- This building was constructed between 1936 and 1947, and appears to have always been used for residential purposes. Prior to 1936, this lot was developed with a dwelling.
- **Lot 38** -- This building was constructed in 1934, and has a history of auto-related and manufacturing use. Prior to 1934, this lot was developed with two dwellings.
- **Lot 39** -- This building was constructed in 1949 and has a history of auto-related use. Prior to 1949 and as early as 1898, this lot was undeveloped.

## 2.2 Previous Investigations

Fleming Lee Shue performed a Phase I Environmental Site Assessment (Phase I ESA) in June 2012. The findings of the Phase I ESA (July 3, 2012) (Appendix A) consisted of the following:

### Lot 31

- The building is currently vacant and was most recently occupied as a medical diagnostic laboratory by Central Laboratories Inc. Abandoned equipment at this building suggests the presence of a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer.
- The equipment includes an approximate 100-gallon holding tank, 5-gallon process tanks labeled as sodium hydroxide and hydrochloric acid, and a control panel for acid and caustic pumps.
- Laboratory-sized containers of absorbants and neutralizers for acid spills were observed in this building. Several locked closets labeled as chemical storage were present on the lower level of the building.
- Unidentified rust-colored liquids were observed to be stored in one-gallon containers of bleach, motor oil, and beverage containers in an empty room on the lower level of the laboratory building.
- Locked walk-in refrigeration units were present on the lower level of the building.

### Lot 35

- An inactive 275-gallon fuel oil AST was observed in the basement.
- The 2<sup>nd</sup> floor suffers from water damage and has moderate areas of mold growth.

### Lot 38

- This building has a sign that reads “Hunter Auto Sales and Service”, appears to be occupied as an auto repair shop, and has three garage bay doors located on its northern façade along Hunter Avenue.
- History of auto-related use.

### Lot 39

- A manhole and interior markings on the concrete floor suggest the presence of a former hydraulic lift, oil/water separator, or underground storage tank (UST).
- A shallow rectangular concrete pit was observed on the ground floor. The purpose of the pit is unknown but is assumed to be associated with former automotive maintenance activities. No areas of staining or previous spills were noted.
- An inactive 275-gallon fuel oil AST is located in the basement vault.
- History of auto-related use.

### Lot 41

- A floor drain was observed on the concrete 1st floor area. No areas of staining or previous spills were noted.
- An inactive boiler and 275-gallon AST were observed in the partial basement.
- History of auto-related use.

### 2.3 Site Inspection

A site inspection was conducted by environmental professional Kevin McGuinness, PG, LSRP and Rahul Bhatia of FLS on June 13, 2012 as part of a Phase I ESA. A site inspection was subsequently conducted by Mr. Rahul Bhatia on July 24, 2012 to confirm sample locations for the remedial investigation sampling event.

The subject property consists of 7 lots that are located on City Block 433. The subject property is bound by Jackson Avenue to the south, Hunter Street to the north, 43rd Avenue to the east, and 44th Drive to the west. The surrounding properties consist of a combination of residential, commercial, and retail development. The neighboring properties are described in the following table.

Direction	Closest Street	Adjacent Property	Further
North	Hunter Street	A parking lot and a 2-story commercial building	Office building under construction, warehouses, and low-rise retail/commercial businesses with upper floor residential apartments
South	Jackson Avenue	A high-rise office building, a lumber yard, and low-rise retail/commercial businesses with upper floor residential apartments	Low-rise commercial development including several auto-related businesses (auto body, auto repair, and garages), a large apartment building, and railroad tracks
East	43 <sup>rd</sup> Avenue	A rubber stamp company, a large vacant lot, and a Gas Trac gasoline filling station and auto repair (2719 43 <sup>rd</sup> Avenue)	Commercial and residential development including an auto repair shop (4283 Hunter Avenue) and loft buildings
West	44 <sup>th</sup> Drive	Rafferty Triangle (a small public sitting park)	A high-rise office building (Citibank Building), a second high-rise office building, followed by low-rise retail/commercial businesses with upper floor residential apartments

Land uses that included Auto repair-related businesses were observed on lots to the south and east of the subject property. A Gas Trac gasoline filling station is located across the street to the

east of the subject property. A gasoline filling station has been present at this location since circa 1970.

Access to the 2-story structure on Lot 37 was not provided. The building is occupied by residential tenants.

### **Underground Storage Tanks**

An unlabeled manway was observed on the concrete floor of the 1-story garage building on Lot 39. The manway suggest the presence of an oil/water separator or an UST.

No evidence of fill caps or vent pipes associated with potential USTs were identified on-site. No saw cuts of paved surfaces, disturbed pavements, or additional unlabeled manways that are typically associated with USTs were identified on the subject property.

### **Aboveground Storage Tanks**

Two fuel oil ASTs were observed in the basement areas on-site. The ASTs all appeared inactive and had no evidence of spills or leaks. The ASTs observed on-site are summarized below.

<b>Location</b>	<b>Tank</b>	<b>Comments</b>
43-15 Hunter Street (Lot 35) basement	275-gallon fuel oil AST situated on a concrete floor	AST is situated above a concrete floor; no leaks, spills, or deterioration noted; AST appears inactive; fill cap and vent pipe observed at exterior of front basement wall
27-06 43 <sup>rd</sup> Avenue (Lot 39) basement	275-gallon fuel oil AST	AST is situated above a concrete floor; no leaks or spills noted; AST is rusted and appears inactive; fill cap observed at front of building

In addition to the above list, a fill cap and vent pipe were observed on the sidewalk adjacent to the building on Lot 37 (43-09 Hunter Street). Since access to this building was not available, it is unclear if the fill cap and vent pipe are associated with an UST or an AST in the basement of this building. Based on the small size of the building and its historic residential use, it is likely that the fill cap and vent pipe are associated with a fuel oil AST in the basement of this building.

Wastewater process tanks were observed in the laboratory building on Lot 31. The tanks consist of an approximate 100-gallon wastewater holding tank and 5-gallon process tanks labeled

as sodium hydroxide and hydrochloric acid. The tanks are constructed of plastic, were in good condition, and appear to be associated with a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer.

### **Chemical Storage**

Small quantities of abandoned cleaning and maintenance chemicals were observed throughout the basement areas.

Laboratory-sized containers of absorbants and neutralizers for acid spills were observed in the laboratory building on Lot 31. Several locked closets labeled as chemical storage were present on the lower level of the laboratory building on Lot 31. Unidentified rust-colored liquids were observed to be stored in one-gallon containers of bleach, motor oil, and beverage containers in an empty room on the lower level of the laboratory building on Lot 31.

No leaks or spills were observed in association with the chemical containers on-site.

### **Hydraulic Elevators and Lifts**

A hydraulic lift for wheelchairs was observed in the building on Lot 31. The lift appeared free of stains or leaks.

### **Non Hazardous Solid Waste**

No treatment of solid waste was observed on-site. Solid waste generated by residential tenants on-site is bagged and placed on the curb for collection by the New York City Department of Sanitation. Solid waste generated by the non-residential tenants is collected by private solid waste disposal companies. No evidence of improper waste disposal activities was observed.

### **Sanitary Wastewater**

The sanitary wastewater generated on-site is discharged into the New York City sewer system.

No hazardous or process wastewater is generated on-site. No septic systems were observed on-site. No evidence of improper wastewater disposal activities was observed.

### **Stormwater**

On-site storm water management is provided by roof surface pitch to interior drains and gutters and downspouts which connect to the outgoing sewer mains. The parking areas have catch basin drains that connect to the outgoing sewer mains.

The subject property did not appear to accept storm water drainage from off-site sources. The storm water flow along the sidewalks fronting the property is diverted via sheet flow to municipal storm sewers located on the adjacent streets.

### **Monitoring Wells**

A groundwater monitoring well was observed on the 43<sup>rd</sup> Avenue sidewalk to the southeast of Lot 41 (off-site).

## **2.4 Areas of Concern**

The seven individual lots are identified as on-site Areas of Concern (AOCs). The Phase 1 Report is presented in Appendix A.

### **3.0 PROJECT MANAGEMENT**

#### **3.1 Project Organization**

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Arnold, F. Fleming.

#### **3.2 Health and Safety**

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

#### **3.3 Materials Management**

All material encountered during the RI was managed in accordance with applicable laws and regulations. All material encountered during the RI was managed in accordance with applicable laws and regulations. Soil cuttings were put back in the hole after taking samples. All other investigation derived waste generated during the remedial investigation (e.g. acetate liners, gloves, etc.) was collected in garbage bags and disposed of in accordance with applicable laws and regulations.

### **4.0 REMEDIAL INVESTIGATION ACTIVITIES**

FLS, on behalf of Hunter GC, L.L.C. performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 10 soil borings across the entire project Site, and collected 20 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 temporary groundwater monitoring points and 2 permanent groundwater monitoring wells throughout the Site to establish groundwater flow and collected 5 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 4 soil vapor probes around Site perimeter and collected 4 samples for chemical analysis.

## **4.1 Borings and Monitoring Wells**

### **Drilling and Soil Logging**

Zebra Environmental, a New York State licensed driller, advanced 10 soil borings using a Geoprobe® "Direct Push" rig. Soils were retained from each borehole via macro-core liners and logged according to a modified Burmeister soil classification system. The soils were scanned in the field for VOCs using a photoionization detector (PID). Soil borings in the basements were sampled at the 0-2 foot interval below the basement slab, as well as the 2-foot interval which exhibited the greatest evidence of contamination (i.e., staining, odor, elevated PID reading). If contamination was not encountered, the 2-foot interval above the groundwater interface was sampled. Borings conducted from grade were collected at the 0-2 foot interval, as well as the 2-foot interval where the greatest evidence of contamination was observed. If no contamination was observed, the 12-14 foot interval was sampled. After sampling was completed, soil cuttings were returned to each borehole and each borehole was grouted and patched. Prior to initiating any subsurface work, a "one-call" utility mark-out was done to identify nearby utilities and clear all soil boring and monitoring well locations.

Soil boring logs were prepared by an environmental engineer and are provided in Appendix B. Figure 3 shows the locations of the soil borings and monitor wells.

### **Groundwater Monitoring Well Construction**

Three soil borings were converted to temporary monitoring wells. After the borehole was completed, a 1.5 inch (Outer Diameter) PVC pipe with a 10-ft. screen and 10 feet of riser was inserted to predetermined depth. Along with the temporary wells, two permanent sidewalk monitoring wells were installed on-site (GW-5, GW-8 ALT).

Using a peristaltic pump, each monitoring well was developed to remove sediments and fine soils from the well screen.

The groundwater sample locations and monitoring well locations are shown in Figure 3.

### **Survey**

A site survey map is provided in Appendix D.

### **Water-Level Measurement**

Water-level data was collected at each temporary monitoring well and permanent monitoring well. A groundwater contour map is provided in Appendix E.

## **4.2 Sample Collection and Chemical Analysis**

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

### **Soil Sampling**

Twenty soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 1 - 4. Figure 3 shows the location of samples collected in this investigation. The analytical laboratories and analytical methods are provided below.

### **Groundwater Sampling**

Five groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in Tables 1 - 4. Figure 3 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

### **Soil Vapor Sampling**

Four soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 3. Soil vapor samples were collected at the proposed excavation depth of 12-feet. Soil vapor sample collection data is reported in Tables 1 - 4. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*. The samples were collected in laboratory-provided Summa canisters equipped with a flow regulator calibrated to collect the sample over a period of 2 hours.

Leak detection testing was performed, using the helium tracer method specified by NYSDOH. The samples were analyzed using USEPA Method TO+15.

### Chemical Analysis

The chemical analyses presented in this RIR have been performed in the following manner:

<b>Factor</b>	<b>Description</b>
Quality Assurance Officer	The chemical analytical quality assurance is directed by Fleming Lee Shue.
Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI is NYS ELAP certified and was Accutest Laboratory.
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> <p>Soil vapor analytical methods:</p>

	<ul style="list-style-type: none"><li>• VOCs by TO-15 VOC parameters.</li></ul>
--	---

### **Results of Chemical Analyses**

The laboratory data for soil, groundwater and soil vapor sample are summarized in Tables 1 - 4. The laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix C.

## **5.0 ENVIRONMENTAL EVALUATION**

### **5.1 Geological and Hydrogeological Conditions**

A United States Geological Survey (USGS) 7.5-Minute Topographic Quadrangle Map was reviewed to determine approximate elevations and topographic features at the property and area. According to the USGS quadrangle, the topography of the subject property is relatively flat with an average elevation that of approximately 15 feet above mean sea level.

#### **Stratigraphy**

Information concerning the geology of the subject property was obtained from the USGS Groundwater Atlas, New York region (1995). The subject property is located within the New England Physiographic Province, which is underlain by metamorphic and sedimentary rocks of the Cambrian and Ordovician period.

The stratigraphy of the site consists of fill material, comprising a mixture of gravel, sand, silt, bricks, concrete fragments and possibly other construction debris, underlain layers of silty sand, clay, silt, peat and organic soils, glacial till and bedrock. According to the geotechnical report conducted by RA Consultants LLC, bedrock was encountered at various depths and elevations across the site. Depth-to- bedrock ranged from 24 to 53.5 feet. It is predominantly granite gneiss, varying mostly from hard sound rock to medium hard rock. According to the geotechnical report, where encountered, fill extended to about 5-feet to 15-feet below sidewalk level.

#### **Hydrogeology**

The average depth to groundwater is approximately 15 feet and the range in depth is 12.0 to 16.4 feet. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 3. Groundwater flow is generally from north to south.

### **5.2 Soil Chemistry**

Soil/ fill samples collected during the RI showed no detectable concentrations of PCBs. No volatile organic compounds (VOCs) were detected above Track 1 Unrestricted Use SCOs. Trichloroethylene (TCE), the only chlorinated VOC detected in soil, was found at trace levels (maximum concentration of 0.0145 ppm) in two samples. Three pesticides, 4,4-DDE, 4,4-DDD, and 4,4-DDT, were detected above Track 1 Unrestricted Use SCOs, but well below their Track 2

Restricted Residential SCOs. The SVOC analyses identified concentrations of five SVOCs above Track 1 Unrestricted Use SCOs in 4 shallow soil samples. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above Restricted Residential SCOs. The SVOCs identified above Restricted Residential SCOs are all PAH compounds, and their concentrations (less than 2.5 ppm) and distributions indicate that they are associated with historic fill material observed during the sampling. The metals analyses identified the presence of nine metals at concentrations exceeding Track 1 SCOs in the shallow and deep soil samples. Concentrations of barium (max of 2790 ppm), copper (max of 4100 ppm), lead (max of 1310 ppm), and mercury (max of 1.8 ppm) also exceed Track 2 Restricted Residential SCOs. Overall, the findings are consistent with observations of other sites with urban fill material in areas throughout NYC.

All soil samples were analyzed by Accutest Laboratories of Dayton, New Jersey, a state certified ELAP laboratory. The analytical results were compared to the NY SCO Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06) standards (Track 1 SCOs).

### **5.3 Groundwater Chemistry**

No detectable concentrations of PCBs or pesticides were identified in groundwater, and no VOCs or SVOCs were detected above GQs. The only VOC detected in groundwater was acetone, and the only SVOCs detected in groundwater were phthalates. Acetone and phthalates are common laboratory contaminants and are not indicative of site conditions. The analysis of filtered and unfiltered groundwater samples for metals identified iron, manganese and sodium at concentrations exceeding GQs, which are indicative of regional groundwater impacts due to saline intrusion, rather than an on-Site impact. The RI indicates that groundwater is not impacted by site conditions and did not reveal any sources of contaminants on Site.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 1 - 4. Analytes exceeding the applicable groundwater standards are shown.

### **5.4 Soil Vapor and Chemistry**

The soil vapor analytical results were compared to values presented in the NYSDOH Final Guidance on Soil Vapor Intrusion (October 2006). The soil vapor sample analyses identified the

presence of several petroleum related and chlorinated VOCs. Trichloroethylene (TCE) and tetrachloroethylene (PCE) at levels exceeding the NYSDOH guidance values. TCE was identified in 3 of 4 samples at a maximum concentration of 2330 ug/m<sup>3</sup>, and PCE was identified in all 4 samples at a maximum concentration of 614 ug/m<sup>3</sup>. Chlorinated VOCs were not identified in groundwater, and TCE was identified only at trace levels in soil. Petroleum-related VOCs were identified at concentrations as high as 3010 ug/m<sup>3</sup> for toluene and 2530 ug/m<sup>3</sup> for xylenes.

The data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Tables 1 - 4.

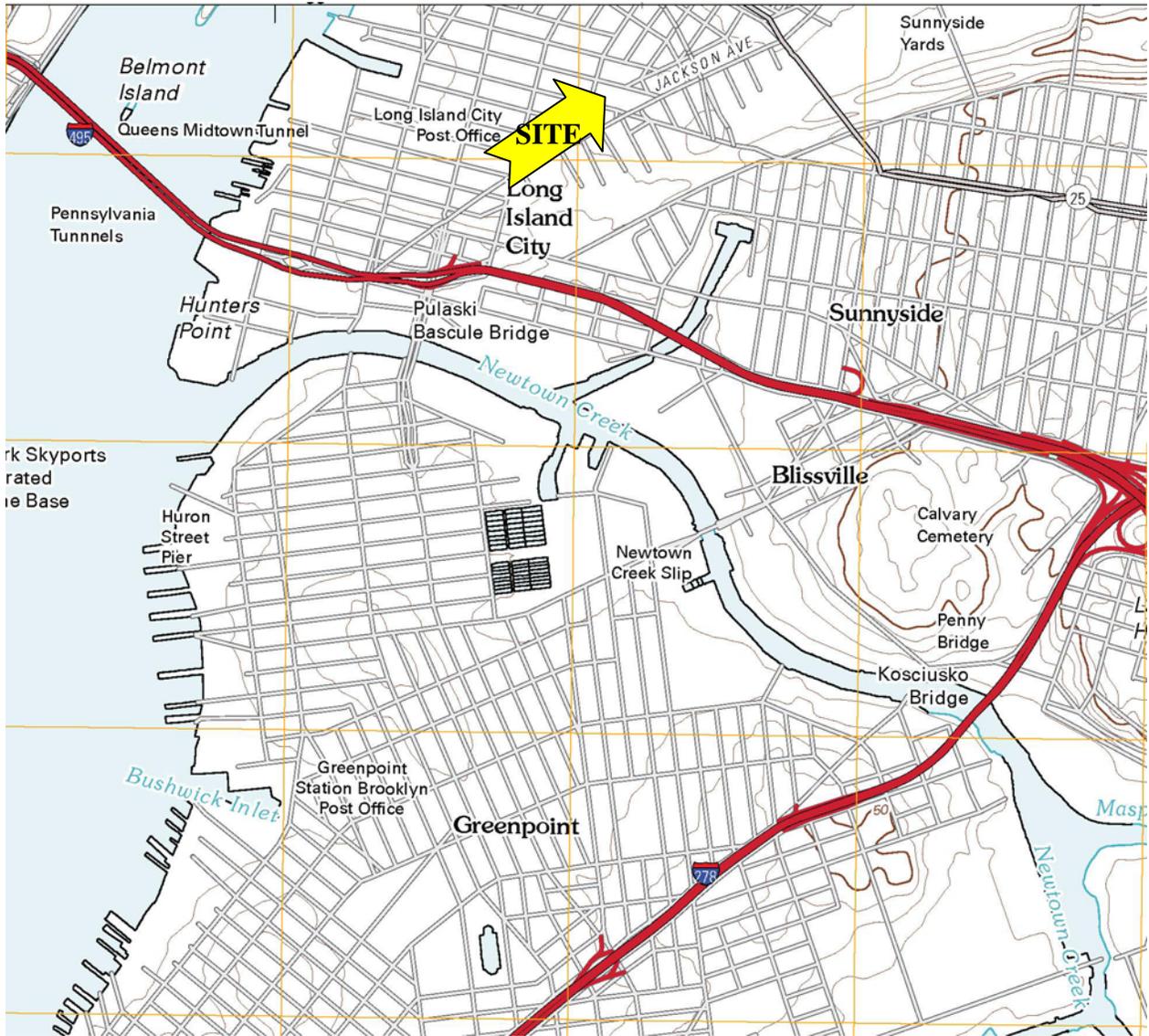
## **5.5 Prior Activity**

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

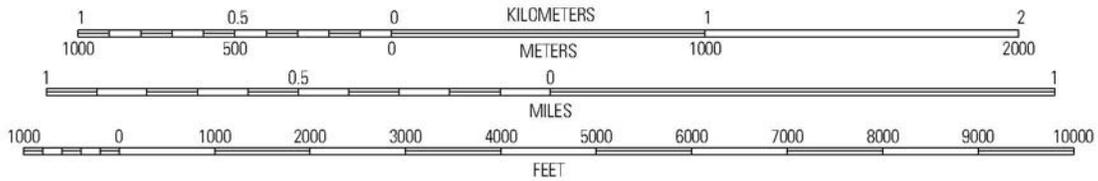
## **5.6 Impediments to Remedial Action**

There are no known impediments to remedial action at this property.

# **FIGURES**



SCALE 1:24 000



### FIGURE 1: SITE LOCATION MAP



SITE: Fleet Site  
 Block 433, Lots: 12, 31, 35-39, 41  
 Long Island City, New York

CLIENT: Hunter GC, LLC

*Environmental Management & Consulting, 158 West 29th Street, New York, NY 10001*



Environmental Management & Consulting

158 West 29th Street, 9th Fl.  
New York, NY 10001

Fleet Site  
Block 433  
Lots: 2,4,6, 8, 12, 31, 35-39, 41

### FIGURE 2

## SITE LAYOUT

Date  
**October 2012**

Project Number  
**10020-011**

### LEGEND

HUNTER STREET (NARROW)

BLDG A

BLDG B

LOT 12

LOT 31

LOT 35

LOT 36

LOT 37

LOT 38

LOT 39

LOT 41

LOT 8

LOT 6

LOT 5

LOT 4

LOT 2

43RD AVENUE (WIDE)

44TH DRIVE (WIDE)

JACKSON AVENUE (WIDE)



FILE: P:\Project Files\10020 - Rockrose Construction\011 Fleet Site (Jackson Ave)\Figures\August 2012 Figures\Sampling Locations\_Fleet\_Site.dwg DATE: 10/15/2012



Environmental Management & Consulting

158 West 29th Street, 9th Fl.  
New York, NY 10001

Fleet Site  
Block 433  
Lots: 2,4,6, 8, 12, 31, 35-39, 41

### FIGURE 3

## SAMPLE LOCATIONS

Date  
**October 2012**

Project Number  
**10020-011**

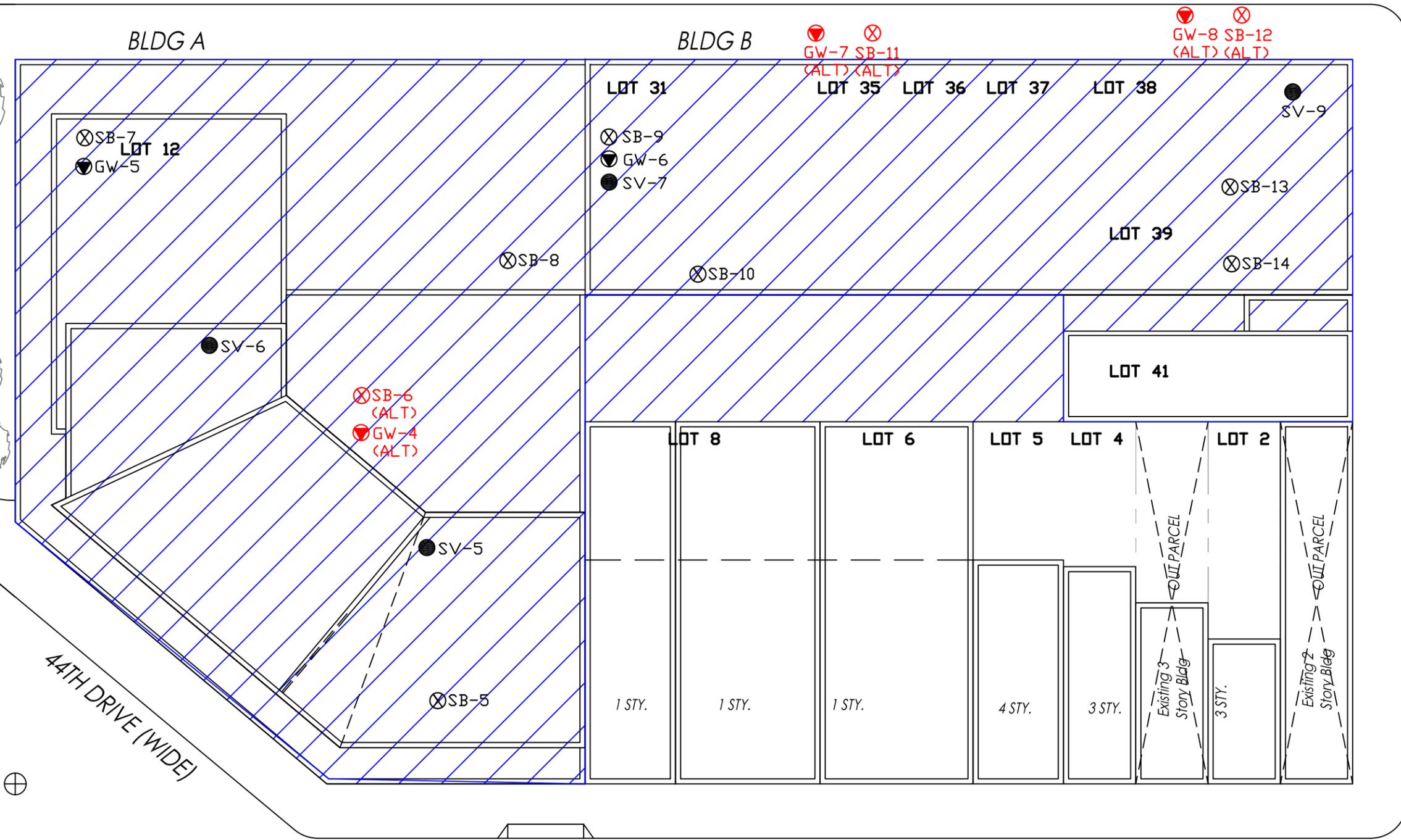
### LEGEND

-  SPACE TO BE DEMOLISHED AS PART OF NEW DEVELOPMENT
-  SOIL SAMPLE
-  GROUNDWATER SAMPLE
-  SOIL VAPOR SAMPLE
-  INDOOR AIR SAMPLE

HUNTER STREET (NARROW)

43RD AVENUE (WIDE)

JACKSON AVENUE (WIDE)



FILE: P:\Project Files\10020 - Rockrose Construction\011 Fleet Site (Jackson Ave)\Figures\August 2012 Figures\Sampling Locations\_Fleet\_Site\_New Construction.dwg DATE: 12/17/2012

# **TABLES**

**Table 1**  
**Volatile Organic Compounds in Groundwater**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY TOGS Class GA GW Standards (NYSDEC 6/2004) <sup>1</sup>	GW-4 (ALT)	GW-5	GW-6	GW-7 (ALT)	GW-8 (ALT)
Lab Sample ID:	JB13738-1		JB13738-2	JB13738-3	JB13738-7	JB13738-8	
Date Sampled:	8/8/2012		8/8/2012	8/8/2012	8/10/2012	8/13/2012	
Matrix:			Ground Water				
<b>GC/MS Volatiles (SW846 8260B)</b>							
Acetone	ug/l	-	5.7 J	6.9 J	5.7 J	ND (3.3)	ND (3.3)
Benzene	ug/l	1	ND (0.24)				
Bromochloromethane	ug/l	5	ND (0.30)				
Bromodichloromethane	ug/l	-	ND (0.21)				
Bromoform	ug/l	-	ND (0.21)				
Bromomethane	ug/l	5	ND (0.22)				
2-Butanone (MEK)	ug/l	-	ND (2.4)				
Carbon disulfide	ug/l	60	ND (0.19)				
Carbon tetrachloride	ug/l	5	ND (0.22)				
Chlorobenzene	ug/l	5	ND (0.23)				
Chloroethane	ug/l	5	ND (0.26)				
Chloroform	ug/l	7	ND (0.20)				
Chloromethane	ug/l	5	ND (0.21)				
Cyclohexane	ug/l	-	ND (0.35)				
1,2-Dibromo-3-chloropropane	ug/l	0.04	ND (0.54)				
Dibromochloromethane	ug/l	-	ND (0.14)				
1,2-Dibromoethane	ug/l	0.0006	ND (0.20)				
1,2-Dichlorobenzene	ug/l	3	ND (0.22)				
1,3-Dichlorobenzene	ug/l	3	ND (0.22)				
1,4-Dichlorobenzene	ug/l	3	ND (0.30)				
Dichlorodifluoromethane	ug/l	5	ND (0.27)				
1,1-Dichloroethane	ug/l	5	ND (0.11)				
1,2-Dichloroethane	ug/l	0.6	ND (0.26)				
1,1-Dichloroethene	ug/l	5	ND (0.19)				
cis-1,2-Dichloroethene	ug/l	5	ND (0.19)				
trans-1,2-Dichloroethene	ug/l	5	ND (0.21)				
1,2-Dichloropropane	ug/l	1	ND (0.48)				
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)				
trans-1,3-Dichloropropene	ug/l	-	ND (0.19)				
1,4-Dioxane	ug/l	-	ND (75)				
Ethylbenzene	ug/l	5	ND (0.23)				
Freon 113	ug/l	5	ND (0.53)				
2-Hexanone	ug/l	-	ND (1.1)				
Isopropylbenzene	ug/l	5	ND (0.45)				
Methyl Acetate	ug/l	-	ND (1.2)				
Methylcyclohexane	ug/l	-	ND (0.26)				
Methyl Tert Butyl Ether	ug/l	10	ND (0.16)				
4-Methyl-2-pentanone(MIBK)	ug/l	-	ND (0.83)				
Methylene chloride	ug/l	5	ND (0.70)				
Styrene	ug/l	5	ND (0.21)				
1,1,1,2-Tetrachloroethane	ug/l	5	ND (0.21)				
Tetrachloroethene	ug/l	5	ND (0.28)				
Toluene	ug/l	5	ND (0.23)				
1,2,3-Trichlorobenzene	ug/l	5	ND (0.28)				
1,2,4-Trichlorobenzene	ug/l	5	ND (0.20)				
1,1,1-Trichloroethane	ug/l	5	ND (0.24)				
1,1,1,2-Trichloroethane	ug/l	1	ND (0.29)				
Trichloroethene	ug/l	5	ND (0.22)				
Trichlorofluoromethane	ug/l	5	ND (0.27)				
Vinyl chloride	ug/l	2	ND (0.21)				
m,p-Xylene	ug/l	-	ND (0.42)				
o-Xylene	ug/l	5	ND (0.24)				
Xylene (total)	ug/l	5	ND (0.24)				

**Notes**

All results given in micrograms per liter (ug/L)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Technical and Operational Series (TOGS) 1.1.1 , Ambient Water Quality Standards

**Bold/highlighted values exceeded the NYSDEC TOGS 1.1.1.**

ND = Not Detected

NS = No Standard

estimated.



**Table 1**  
**Volatile Organic Compounds in Soil Vapor**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		SV-5	SV-6	SV-7	SV-9
Lab Sample ID:		JB13706-7	JB13706-8	JB13706-9	JB13706-10
Date Sampled:		8/9/2012	8/9/2012	8/9/2012	8/13/2012
Matrix:		Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.
<b>GC/MS Volatiles (TO-15) - ug/m3</b>					
Acetone	ug/m3	1230	25.9	51.5	259
1,3-Butadiene	ug/m3	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Benzene	ug/m3	345	2.0 J	34.8	14
Bromodichloromethane	ug/m3	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)
Bromoform	ug/m3	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
Bromomethane	ug/m3	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
Bromoethene	ug/m3	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)
Benzyl Chloride	ug/m3	ND (0.82)	ND (0.82)	ND (0.82)	ND (0.82)
Carbon disulfide	ug/m3	4.7	ND (0.40)	ND (0.40)	ND (0.40)
Chlorobenzene	ug/m3	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
Chloroethane	ug/m3	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
Chloroform	ug/m3	30	ND (0.54)	ND (0.54)	8.3
Chloromethane	ug/m3	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
3-Chloropropene	ug/m3	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
2-Chlorotoluene	ug/m3	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)
Carbon tetrachloride	ug/m3	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Cyclohexane	ug/m3	82.6	ND (0.45)	ND (0.45)	6.5
1,1-Dichloroethane	ug/m3	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
1,1-Dichloroethylene	ug/m3	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)
1,2-Dibromoethane	ug/m3	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)
1,2-Dichloroethane	ug/m3	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
1,2-Dichloropropane	ug/m3	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
1,4-Dioxane	ug/m3	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
Dichlorodifluoromethane	ug/m3	3.3 J	3.0 J	3.9 J	2.2 J
Dibromochloromethane	ug/m3	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)
trans-1,2-Dichloroethylene	ug/m3	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
cis-1,2-Dichloroethylene	ug/m3	ND (0.59)	ND (0.59)	2.9 J	ND (0.59)
cis-1,3-Dichloropropene	ug/m3	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)
m-Dichlorobenzene	ug/m3	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)
o-Dichlorobenzene	ug/m3	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)
p-Dichlorobenzene	ug/m3	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
trans-1,3-Dichloropropene	ug/m3	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)
Ethanol	ug/m3	196	15	24.3	21.5
Ethylbenzene	ug/m3	508	2.3 J	59.9	118
Ethyl Acetate	ug/m3	12	ND (0.86)	ND (0.86)	ND (0.86)
4-Ethyltoluene	ug/m3	166	ND (0.47)	16	48
Freon 113	ug/m3	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
Freon 114	ug/m3	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)
Heptane	ug/m3	447	2.4 J	37	35
Hexachlorobutadiene	ug/m3	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Hexane	ug/m3	518	3.2	42.3	17
2-Hexanone	ug/m3	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)
Isopropyl Alcohol	ug/m3	3.7	2.7	7.1	52.1
Methylene chloride	ug/m3	9	ND (0.38)	3.8	11
Methyl ethyl ketone	ug/m3	39.5	3.2	6.8	43.4
Methyl Isobutyl Ketone	ug/m3	9	ND (0.57)	ND (0.57)	40
Methyl Tert Butyl Ether	ug/m3	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
Methylmethacrylate	ug/m3	65.5	ND (0.70)	ND (0.70)	ND (0.70)
Propylene	ug/m3	87.8	ND (0.48)	5.2	2.4 J
Styrene	ug/m3	3.1 J	ND (0.47)	1.8 J	18
1,1,1-Trichloroethane	ug/m3	9.8	ND (0.48)	ND (0.48)	ND (0.48)
1,1,2,2-Tetrachloroethane	ug/m3	ND (0.82)	ND (0.82)	ND (0.82)	ND (0.82)
1,1,2-Trichloroethane	ug/m3	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)
1,2,4-Trichlorobenzene	ug/m3	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
1,2,4-Trimethylbenzene	ug/m3	473	3.0 J	46	135
1,3,5-Trimethylbenzene	ug/m3	134	ND (0.54)	14	36
2,2,4-Trimethylpentane	ug/m3	192	2.6 J	8.4	3.5 J
Tertiary Butyl Alcohol	ug/m3	38.5	ND (0.39)	ND (0.39)	4.2
Tetrachloroethylene	ug/m3	486	2	64	614
Tetrahydrofuran	ug/m3	29	ND (0.56)	2.6	ND (0.56)
Toluene	ug/m3	3010	13	357	1300
Trichloroethylene	ug/m3	2330	ND (0.70)	0.91	860
Trichlorofluoromethane	ug/m3	ND (0.96)	ND (0.96)	11	ND (0.96)
Vinyl chloride	ug/m3	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Vinyl Acetate	ug/m3	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
m,p-Xylene	ug/m3	1990	7.8	239	521
o-Xylene	ug/m3	543	2.3 J	60.4	148
Xylenes (total)	ug/m3	2530	10	300	669

**Notes**

All results given in micrograms per cubic meter (ug/m<sup>3</sup>)

Samples analyzed for VOCs using EPA Compendium Method TO-15.

Detected compounds are highlighted in Blue

ND = Not Detected

NS = No Standard

qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



**Table 1**  
**Volatile Organic Compounds in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Volatiles (SW846)</b>												
Acetone	ug/kg	500000	ND (1.9)	9.6 J	ND (2.0)	ND (1.8)	ND (2.0)	13.2	11.5 J	18.3	45.8	24.7
Benzene	ug/kg	44000	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.12)	0.75 J	ND (0.15)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.16)
Bromochloromethane	ug/kg	-	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.27)	ND (0.31)	ND (0.34)	ND (0.32)	ND (0.39)	ND (0.38)	ND (0.35)
Bromodichloromethane	ug/kg	-	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.14)
Bromofrom	ug/kg	-	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.22)	ND (0.22)	ND (0.20)
Bromomethane	ug/kg	-	ND (0.31)	ND (0.31)	ND (0.33)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.33)	ND (0.40)	ND (0.39)	ND (0.37)
2-Butanone (MEK)	ug/kg	500000	ND (2.7)	ND (2.7)	ND (2.9)	ND (2.5)	ND (2.8)	ND (3.0)	ND (2.9)	ND (3.5)	ND (3.4)	ND (3.2)
Carbon disulfide	ug/kg	-	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.12)	ND (0.14)	ND (0.15)	1.3 J	1.4 J	6.4 J	3.7 J
Carbon tetrachloride	ug/kg	22000	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.19)	ND (0.18)
Chlorobenzene	ug/kg	500000	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.16)	ND (0.15)	ND (0.14)
Chloroethane	ug/kg	-	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.24)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.33)	ND (0.33)	ND (0.30)
Chloroform	ug/kg	350000	ND (0.094)	ND (0.093)	1.5 J	1.2 J	ND (0.097)	ND (0.11)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Chloromethane	ug/kg	-	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.27)	ND (0.27)	ND (0.25)
Cyclohexane	ug/kg	-	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.14)	ND (0.16)	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.17)
1,2-Dibromo-3-chloropropane	ug/kg	-	ND (1.0)	ND (1.0)	ND (1.1)	ND (0.92)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.3)	ND (1.3)	ND (1.2)
Dibromochloromethane	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.24)	ND (0.22)
1,2-Dibromoethane	ug/kg	-	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.19)	ND (0.18)	ND (0.17)
1,2-Dichlorobenzene	ug/kg	500000	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.28)	ND (0.27)	ND (0.25)
1,3-Dichlorobenzene	ug/kg	280000	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.27)	ND (0.27)	ND (0.25)
1,4-Dichlorobenzene	ug/kg	130000	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.24)
Dichlorodifluoromethane	ug/kg	-	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.24)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.34)	ND (0.33)	ND (0.30)
1,1-Dichloroethane	ug/kg	240000	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.18)
1,2-Dichloroethane	ug/kg	30000	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.19)	ND (0.18)
1,1-Dichloroethene	ug/kg	500000	ND (0.29)	ND (0.29)	ND (0.31)	ND (0.27)	ND (0.30)	ND (0.33)	ND (0.31)	ND (0.38)	ND (0.37)	ND (0.34)
cis-1,2-Dichloroethene	ug/kg	500000	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.21)	ND (0.23)	ND (0.22)	ND (0.27)	ND (0.26)	ND (0.24)
trans-1,2-Dichloroethene	ug/kg	500000	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.25)	ND (0.28)	ND (0.30)	ND (0.29)	ND (0.35)	ND (0.34)	ND (0.32)
1,2-Dichloropropane	ug/kg	-	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.22)	ND (0.21)
cis-1,3-Dichloropropene	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
trans-1,3-Dichloropropene	ug/kg	-	ND (0.18)	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.22)	ND (0.21)
1,4-Dioxane	ug/kg	130000	ND (68)	ND (67)	ND (71)	ND (62)	ND (70)	ND (76)	ND (72)	ND (87)	ND (85)	ND (80)
Ethylbenzene	ug/kg	390000	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.27)	ND (0.31)	ND (0.34)	ND (0.32)	ND (0.39)	ND (0.38)	ND (0.35)
Freon 113	ug/kg	-	ND (0.49)	ND (0.48)	ND (0.52)	ND (0.45)	ND (0.50)	ND (0.55)	ND (0.52)	ND (0.63)	ND (0.62)	ND (0.58)
2-Hexanone	ug/kg	-	ND (0.71)	ND (0.70)	ND (0.75)	ND (0.65)	ND (0.73)	ND (0.79)	ND (0.75)	ND (0.91)	ND (0.89)	ND (0.83)
Isopropylbenzene	ug/kg	-	ND (0.085)	ND (0.084)	ND (0.089)	ND (0.077)	ND (0.087)	ND (0.095)	ND (0.090)	ND (0.11)	ND (0.11)	ND (0.099)
Methyl Acetate	ug/kg	-	ND (3.0)	ND (2.9)	23.8	ND (2.7)	ND (3.0)	ND (3.3)	ND (3.1)	ND (3.8)	ND (3.7)	ND (3.5)
Methylcyclohexane	ug/kg	-	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.25)	ND (0.24)	ND (0.23)
Methyl Tert Butyl Ether	ug/kg	500000	ND (0.27)	ND (0.26)	ND (0.28)	ND (0.24)	ND (0.27)	ND (0.30)	ND (0.28)	ND (0.35)	ND (0.34)	ND (0.31)
4-Methyl-2-pentanone(MIBK)	ug/kg	-	ND (0.86)	ND (0.84)	ND (0.90)	ND (0.78)	ND (0.88)	ND (0.96)	ND (0.90)	ND (1.1)	ND (1.1)	ND (1.0)
Methylene chloride	ug/kg	500000	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.3)	ND (1.5)	ND (1.6)	ND (1.5)	ND (1.9)	ND (1.8)	ND (1.7)
Styrene	ug/kg	-	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.095)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.12)
1,1,2,2-Tetrachloroethane	ug/kg	-	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.19)	ND (0.19)	ND (0.18)
Tetrachloroethene	ug/kg	150000	ND (0.20)	ND (0.19)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.25)	ND (0.25)	ND (0.23)
Toluene	ug/kg	500000	0.44 J	ND (0.12)	ND (0.13)	ND (0.11)	1.5	ND (0.13)	0.82 J	0.75 J	0.94 J	0.92 J
1,2,3-Trichlorobenzene	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.24)	ND (0.22)
1,2,4-Trichlorobenzene	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
1,1,1-Trichloroethane	ug/kg	500000	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.14)	ND (0.13)	ND (0.16)	ND (0.15)	ND (0.14)
1,1,2-Trichloroethane	ug/kg	-	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.23)
Trichloroethene	ug/kg	200000	14.5	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.23)
Trichlorofluoromethane	ug/kg	-	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.31)	ND (0.35)	ND (0.38)	ND (0.36)	ND (0.44)	ND (0.43)	ND (0.40)
Vinyl chloride	ug/kg	13000	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.19)
m,p-Xylene	ug/kg	500000	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	0.64 J	ND (0.22)	ND (0.21)	ND (0.26)	0.67 J	0.70 J
o-Xylene	ug/kg	500000	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	0.25 J	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
Xylene (total)	ug/kg	500000	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	0.89 J	ND (0.18)	ND (0.17)	ND (0.20)	0.67 J	0.70 J

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use.**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



Client Sample ID:		NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Volatiles (SW846)</b>												
Acetone	ug/kg	500000	70.7	39.3	ND (2.0)	ND (2.3)	9.6 J	11.2 J	ND (2.1)	ND (2.4)	ND (2.2)	10.6 J
Benzene	ug/kg	44000	ND (0.73)	0.73 J	ND (0.14)	ND (0.16)	ND (0.15)	ND (0.15)	2.5	0.44 J	2.3	0.52 J
Bromochloromethane	ug/kg	-	ND (1.6)	ND (0.44)	ND (0.32)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.34)	ND (0.37)
Bromodichloromethane	ug/kg	-	ND (0.64)	ND (0.18)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.14)	ND (0.15)
Bromofrom	ug/kg	-	ND (0.92)	ND (0.25)	ND (0.18)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (0.21)
Bromomethane	ug/kg	-	ND (1.7)	ND (0.46)	ND (0.33)	ND (0.37)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)	ND (0.35)	ND (0.39)
2-Butanone (MEK)	ug/kg	500000	ND (15)	ND (4.0)	ND (2.9)	ND (3.3)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.4)	ND (3.1)	ND (3.4)
Carbon disulfide	ug/kg	-	ND (0.72)	3.1 J	ND (0.14)	ND (0.16)	1.0 J	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.17)
Carbon tetrachloride	ug/kg	22000	ND (0.81)	ND (0.22)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
Chlorobenzene	ug/kg	500000	ND (0.66)	ND (0.18)	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.15)
Chloroethane	ug/kg	-	ND (1.4)	ND (0.38)	ND (0.27)	ND (0.31)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.33)	ND (0.29)	ND (0.32)
Chloroform	ug/kg	350000	ND (0.51)	ND (0.14)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.12)
Chloromethane	ug/kg	-	ND (1.1)	ND (0.31)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27)	ND (0.24)	ND (0.26)
Cyclohexane	ug/kg	-	ND (0.76)	ND (0.21)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.18)
1,2-Dibromo-3-chloropropane	ug/kg	-	ND (5.4)	ND (1.5)	ND (1.1)	ND (1.2)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.3)	ND (1.1)	ND (1.3)
Dibromochloromethane	ug/kg	-	ND (1.0)	ND (0.27)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.23)
1,2-Dibromoethane	ug/kg	-	ND (0.78)	ND (0.21)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.18)
1,2-Dichlorobenzene	ug/kg	500000	ND (1.2)	ND (0.32)	ND (0.23)	ND (0.26)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)	ND (0.27)
1,3-Dichlorobenzene	ug/kg	280000	ND (1.1)	ND (0.31)	ND (0.23)	ND (0.26)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27)	ND (0.24)	ND (0.26)
1,4-Dichlorobenzene	ug/kg	130000	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.25)
Dichlorodifluoromethane	ug/kg	-	ND (1.4)	ND (0.38)	ND (0.28)	ND (0.31)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.33)	ND (0.29)	ND (0.32)
1,1-Dichloroethane	ug/kg	240000	ND (0.84)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.19)
1,2-Dichloroethane	ug/kg	30000	ND (0.83)	ND (0.23)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
1,1-Dichloroethene	ug/kg	500000	ND (1.6)	ND (0.43)	ND (0.31)	ND (0.35)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.37)	ND (0.33)	ND (0.36)
cis-1,2-Dichloroethene	ug/kg	500000	ND (1.1)	ND (0.31)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.26)	ND (0.24)	ND (0.26)
trans-1,2-Dichloroethene	ug/kg	500000	ND (1.5)	ND (0.40)	ND (0.29)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.34)	ND (0.31)	ND (0.34)
1,2-Dichloropropane	ug/kg	-	ND (0.94)	ND (0.26)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.22)
cis-1,3-Dichloropropene	ug/kg	-	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
trans-1,3-Dichloropropene	ug/kg	-	ND (0.95)	ND (0.26)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.22)
1,4-Dioxane	ug/kg	130000	ND (360)	ND (99)	ND (72)	ND (81)	ND (74)	ND (75)	ND (74)	ND (86)	ND (77)	ND (84)
Ethylbenzene	ug/kg	390000	ND (1.6)	ND (0.44)	ND (0.32)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.34)	ND (0.37)
Freon 113	ug/kg	-	ND (2.6)	ND (0.72)	ND (0.52)	ND (0.59)	ND (0.53)	ND (0.54)	ND (0.54)	ND (0.62)	ND (0.55)	ND (0.61)
2-Hexanone	ug/kg	-	ND (3.8)	ND (1.0)	ND (0.75)	ND (0.85)	ND (0.77)	ND (0.78)	ND (0.78)	ND (0.90)	ND (0.80)	ND (0.88)
Isopropylbenzene	ug/kg	-	ND (0.45)	ND (0.12)	ND (0.090)	ND (0.10)	ND (0.092)	ND (0.093)	ND (0.093)	ND (0.11)	ND (0.096)	ND (0.11)
Methyl Acetate	ug/kg	-	ND (16)	ND (4.3)	32	17.3	ND (3.2)	ND (3.3)	ND (3.3)	ND (3.8)	ND (3.4)	ND (3.7)
Methylcyclohexane	ug/kg	-	ND (1.0)	ND (0.28)	ND (0.20)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.24)
Methyl Tert Butyl Ether	ug/kg	500000	ND (1.4)	ND (0.39)	ND (0.28)	ND (0.32)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.34)	ND (0.30)	ND (0.33)
4-Methyl-2-pentanone(MIBK)	ug/kg	-	ND (4.6)	ND (1.3)	ND (0.91)	ND (1.0)	ND (0.93)	ND (0.94)	ND (0.94)	ND (1.1)	ND (0.97)	ND (1.1)
Methylene chloride	ug/kg	500000	ND (7.8)	ND (2.1)	ND (1.5)	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.8)	ND (1.6)	ND (1.8)
Styrene	ug/kg	-	ND (0.56)	ND (0.15)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.13)	ND (0.12)	ND (0.13)
1,1,2,2-Tetrachloroethane	ug/kg	-	ND (0.81)	ND (0.22)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
Tetrachloroethene	ug/kg	150000	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.24)
Toluene	ug/kg	500000	ND (0.64)	1.9	ND (0.13)	ND (0.14)	0.48 J	ND (0.13)	2.7	0.58 J	1.8	ND (0.15)
1,2,3-Trichlorobenzene	ug/kg	-	ND (1.0)	ND (0.27)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.23)
1,2,4-Trichlorobenzene	ug/kg	-	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
1,1,1-Trichloroethane	ug/kg	500000	ND (0.65)	ND (0.18)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.14)	ND (0.15)
1,1,2-Trichloroethane	ug/kg	-	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.25)
Trichloroethene	ug/kg	200000	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	1.3 J	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.25)
Trichlorofluoromethane	ug/kg	-	ND (1.8)	ND (0.50)	ND (0.36)	ND (0.41)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.43)	ND (0.38)	ND (0.42)
Vinyl chloride	ug/kg	13000	ND (0.88)	ND (0.24)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.19)	ND (0.20)
m,p-Xylene	ug/kg	500000	ND (1.1)	1.0 J	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	0.56 J	ND (0.25)	0.37 J	ND (0.25)
o-Xylene	ug/kg	500000	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
Xylene (total)	ug/kg	500000	ND (0.85)	1.0 J	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	0.56 J	ND (0.20)	0.37 J	ND (0.20)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use.**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



**Table 1  
Volatile Organic Compounds in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Volatiles (SW846)</b>												
Acetone	ug/kg	100000	ND (1.9)	9.6 J	ND (2.0)	ND (1.8)	ND (2.0)	13.2	11.5 J	18.3	45.8	24.7
Benzene	ug/kg	4800	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.12)	0.75 J	ND (0.15)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.16)
Bromochloromethane	ug/kg	-	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.27)	ND (0.31)	ND (0.34)	ND (0.32)	ND (0.39)	ND (0.38)	ND (0.35)
Bromodichloromethane	ug/kg	-	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.14)
Bromofrom	ug/kg	-	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.22)	ND (0.22)	ND (0.20)
Bromomethane	ug/kg	-	ND (0.31)	ND (0.31)	ND (0.33)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.33)	ND (0.40)	ND (0.39)	ND (0.37)
2-Butanone (MEK)	ug/kg	100000	ND (2.7)	ND (2.7)	ND (2.9)	ND (2.5)	ND (2.8)	ND (3.0)	ND (2.9)	ND (3.5)	ND (3.4)	ND (3.2)
Carbon disulfide	ug/kg	-	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.12)	ND (0.14)	ND (0.15)	1.3 J	1.4 J	6.4 J	3.7 J
Carbon tetrachloride	ug/kg	2400	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.19)	ND (0.18)
Chlorobenzene	ug/kg	100000	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.16)	ND (0.15)	ND (0.14)
Chloroethane	ug/kg	-	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.24)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.33)	ND (0.33)	ND (0.30)
Chloroform	ug/kg	49000	ND (0.094)	ND (0.093)	1.5 J	1.2 J	ND (0.097)	ND (0.11)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Chloromethane	ug/kg	-	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.27)	ND (0.27)	ND (0.25)
Cyclohexane	ug/kg	-	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.14)	ND (0.16)	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.17)
1,2-Dibromo-3-chloropropane	ug/kg	-	ND (1.0)	ND (1.0)	ND (1.1)	ND (0.92)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.3)	ND (1.3)	ND (1.2)
Dibromochloromethane	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.24)	ND (0.22)
1,2-Dibromoethane	ug/kg	-	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.19)	ND (0.18)	ND (0.17)
1,2-Dichlorobenzene	ug/kg	100000	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.28)	ND (0.27)	ND (0.25)
1,3-Dichlorobenzene	ug/kg	49000	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.27)	ND (0.27)	ND (0.25)
1,4-Dichlorobenzene	ug/kg	13000	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.24)
Dichlorodifluoromethane	ug/kg	-	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.24)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.34)	ND (0.33)	ND (0.30)
1,1-Dichloroethane	ug/kg	26000	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.18)
1,2-Dichloroethane	ug/kg	3100	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.19)	ND (0.18)
1,1-Dichloroethene	ug/kg	100000	ND (0.29)	ND (0.29)	ND (0.31)	ND (0.27)	ND (0.30)	ND (0.33)	ND (0.31)	ND (0.38)	ND (0.37)	ND (0.34)
cis-1,2-Dichloroethene	ug/kg	100000	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.21)	ND (0.23)	ND (0.22)	ND (0.27)	ND (0.27)	ND (0.24)
trans-1,2-Dichloroethene	ug/kg	100000	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.25)	ND (0.28)	ND (0.30)	ND (0.29)	ND (0.35)	ND (0.34)	ND (0.32)
1,2-Dichloropropane	ug/kg	-	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.22)	ND (0.21)
cis-1,3-Dichloropropene	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
trans-1,3-Dichloropropene	ug/kg	-	ND (0.18)	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.22)	ND (0.21)
1,4-Dioxane	ug/kg	13000	ND (68)	ND (67)	ND (71)	ND (62)	ND (70)	ND (76)	ND (72)	ND (87)	ND (85)	ND (80)
Ethylbenzene	ug/kg	41000	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.27)	ND (0.31)	ND (0.34)	ND (0.32)	ND (0.39)	ND (0.38)	ND (0.35)
Freon 113	ug/kg	-	ND (0.49)	ND (0.48)	ND (0.52)	ND (0.45)	ND (0.50)	ND (0.55)	ND (0.52)	ND (0.63)	ND (0.62)	ND (0.58)
2-Hexanone	ug/kg	-	ND (0.71)	ND (0.70)	ND (0.75)	ND (0.65)	ND (0.73)	ND (0.79)	ND (0.75)	ND (0.91)	ND (0.89)	ND (0.83)
Isopropylbenzene	ug/kg	-	ND (0.085)	ND (0.084)	ND (0.089)	ND (0.077)	ND (0.087)	ND (0.095)	ND (0.090)	ND (0.11)	ND (0.11)	ND (0.099)
Methyl Acetate	ug/kg	-	ND (3.0)	ND (2.9)	23.8	ND (2.7)	ND (3.0)	ND (3.3)	ND (3.1)	ND (3.8)	ND (3.7)	ND (3.5)
Methylcyclohexane	ug/kg	-	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.25)	ND (0.24)	ND (0.23)
Methyl Tert Butyl Ether	ug/kg	100000	ND (0.27)	ND (0.26)	ND (0.28)	ND (0.24)	ND (0.27)	ND (0.30)	ND (0.28)	ND (0.35)	ND (0.34)	ND (0.31)
4-Methyl-2-pentanone(MIBK)	ug/kg	-	ND (0.86)	ND (0.84)	ND (0.90)	ND (0.78)	ND (0.88)	ND (0.96)	ND (0.90)	ND (1.1)	ND (1.1)	ND (1.0)
Methylene chloride	ug/kg	100000	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.3)	ND (1.5)	ND (1.6)	ND (1.5)	ND (1.9)	ND (1.8)	ND (1.7)
Styrene	ug/kg	-	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.095)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.12)
1,1,2,2-Tetrachloroethane	ug/kg	-	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.19)	ND (0.19)	ND (0.18)
Tetrachloroethene	ug/kg	19000	ND (0.20)	ND (0.19)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.25)	ND (0.25)	ND (0.23)
Toluene	ug/kg	100000	0.44 J	ND (0.12)	ND (0.13)	ND (0.11)	1.5	ND (0.13)	0.82 J	0.75 J	0.94 J	0.92 J
1,2,3-Trichlorobenzene	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.24)	ND (0.22)
1,2,4-Trichlorobenzene	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
1,1,1-Trichloroethane	ug/kg	100000	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.14)	ND (0.13)	ND (0.16)	ND (0.15)	ND (0.14)
1,1,2-Trichloroethane	ug/kg	-	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.23)
Trichloroethene	ug/kg	21000	14.5	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.23)
Trichlorofluoromethane	ug/kg	-	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.31)	ND (0.35)	ND (0.38)	ND (0.36)	ND (0.44)	ND (0.43)	ND (0.40)
Vinyl chloride	ug/kg	900	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.19)
m,p-Xylene	ug/kg	100000	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	0.64 J	ND (0.22)	ND (0.21)	ND (0.26)	0.67 J	0.70 J
o-Xylene	ug/kg	100000	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	0.25 J	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
Xylene (total)	ug/kg	100000	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	0.89 J	ND (0.18)	ND (0.17)	ND (0.20)	0.67 J	0.70 J

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



Client Sample ID:		NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Volatiles (SW846)</b>												
Acetone	ug/kg	100000	70.7	39.3	ND (2.0)	ND (2.3)	9.6 J	11.2 J	ND (2.1)	ND (2.4)	ND (2.2)	10.6 J
Benzene	ug/kg	4800	ND (0.73)	0.73 J	ND (0.14)	ND (0.16)	ND (0.15)	ND (0.15)	2.5	0.44 J	2.3	0.52 J
Bromochloromethane	ug/kg	-	ND (1.6)	ND (0.44)	ND (0.32)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.34)	ND (0.37)
Bromodichloromethane	ug/kg	-	ND (0.64)	ND (0.18)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.14)	ND (0.15)
Bromoform	ug/kg	-	ND (0.92)	ND (0.25)	ND (0.18)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (0.21)
Bromomethane	ug/kg	-	ND (1.7)	ND (0.46)	ND (0.33)	ND (0.37)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)	ND (0.35)	ND (0.39)
2-Butanone (MEK)	ug/kg	100000	ND (15)	ND (4.0)	ND (2.9)	ND (3.3)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.4)	ND (3.1)	ND (3.4)
Carbon disulfide	ug/kg	-	ND (0.72)	3.1 J	ND (0.14)	ND (0.16)	1.0 J	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.17)
Carbon tetrachloride	ug/kg	2400	ND (0.81)	ND (0.22)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
Chlorobenzene	ug/kg	100000	ND (0.66)	ND (0.18)	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.15)
Chloroethane	ug/kg	-	ND (1.4)	ND (0.38)	ND (0.27)	ND (0.31)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.33)	ND (0.29)	ND (0.32)
Chloroform	ug/kg	49000	ND (0.51)	ND (0.14)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.12)
Chloromethane	ug/kg	-	ND (1.1)	ND (0.31)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27)	ND (0.24)	ND (0.26)
Cyclohexane	ug/kg	-	ND (0.76)	ND (0.21)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.18)
1,2-Dibromo-3-chloropropane	ug/kg	-	ND (5.4)	ND (1.5)	ND (1.1)	ND (1.2)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.3)	ND (1.1)	ND (1.3)
Dibromochloromethane	ug/kg	-	ND (1.0)	ND (0.27)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.23)
1,2-Dibromoethane	ug/kg	-	ND (0.78)	ND (0.21)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.18)
1,2-Dichlorobenzene	ug/kg	100000	ND (1.2)	ND (0.32)	ND (0.23)	ND (0.26)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)	ND (0.27)
1,3-Dichlorobenzene	ug/kg	49000	ND (1.1)	ND (0.31)	ND (0.23)	ND (0.26)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27)	ND (0.24)	ND (0.26)
1,4-Dichlorobenzene	ug/kg	13000	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.25)
Dichlorodifluoromethane	ug/kg	-	ND (1.4)	ND (0.38)	ND (0.28)	ND (0.31)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.33)	ND (0.29)	ND (0.32)
1,1-Dichloroethane	ug/kg	26000	ND (0.84)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.19)
1,2-Dichloroethane	ug/kg	3100	ND (0.83)	ND (0.23)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
1,1-Dichloroethene	ug/kg	100000	ND (1.6)	ND (0.43)	ND (0.31)	ND (0.35)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.37)	ND (0.33)	ND (0.36)
cis-1,2-Dichloroethene	ug/kg	100000	ND (1.1)	ND (0.31)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.26)	ND (0.24)	ND (0.26)
trans-1,2-Dichloroethene	ug/kg	100000	ND (1.5)	ND (0.40)	ND (0.29)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.34)	ND (0.31)	ND (0.34)
1,2-Dichloropropane	ug/kg	-	ND (0.94)	ND (0.26)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.22)
cis-1,3-Dichloropropene	ug/kg	-	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
trans-1,3-Dichloropropene	ug/kg	-	ND (0.95)	ND (0.26)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.22)
1,4-Dioxane	ug/kg	13000	ND (360)	ND (99)	ND (72)	ND (81)	ND (74)	ND (75)	ND (74)	ND (86)	ND (77)	ND (84)
Ethylbenzene	ug/kg	41000	ND (1.6)	ND (0.44)	ND (0.32)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.34)	ND (0.37)
Freon 113	ug/kg	-	ND (2.6)	ND (0.72)	ND (0.52)	ND (0.59)	ND (0.53)	ND (0.54)	ND (0.54)	ND (0.62)	ND (0.55)	ND (0.61)
2-Hexanone	ug/kg	-	ND (3.8)	ND (1.0)	ND (0.75)	ND (0.85)	ND (0.77)	ND (0.78)	ND (0.78)	ND (0.90)	ND (0.80)	ND (0.88)
Isopropylbenzene	ug/kg	-	ND (0.45)	ND (0.12)	ND (0.090)	ND (0.10)	ND (0.092)	ND (0.093)	ND (0.093)	ND (0.11)	ND (0.096)	ND (0.11)
Methyl Acetate	ug/kg	-	ND (16)	ND (4.3)	32	17.3	ND (3.2)	ND (3.3)	ND (3.3)	ND (3.8)	ND (3.4)	ND (3.7)
Methylcyclohexane	ug/kg	-	ND (1.0)	ND (0.28)	ND (0.20)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.24)
Methyl Tert Butyl Ether	ug/kg	100000	ND (1.4)	ND (0.39)	ND (0.28)	ND (0.32)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.34)	ND (0.30)	ND (0.33)
4-Methyl-2-pentanone(MIBK)	ug/kg	-	ND (4.6)	ND (1.3)	ND (0.91)	ND (1.0)	ND (0.93)	ND (0.94)	ND (0.94)	ND (1.1)	ND (0.97)	ND (1.1)
Methylene chloride	ug/kg	100000	ND (7.8)	ND (2.1)	ND (1.5)	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.8)	ND (1.6)	ND (1.8)
Styrene	ug/kg	-	ND (0.56)	ND (0.15)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.13)	ND (0.12)	ND (0.13)
1,1,2,2-Tetrachloroethane	ug/kg	-	ND (0.81)	ND (0.22)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
Tetrachloroethene	ug/kg	19000	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.24)
Toluene	ug/kg	100000	ND (0.64)	1.9	ND (0.13)	ND (0.14)	0.48 J	ND (0.13)	2.7	0.58 J	1.8	ND (0.15)
1,2,3-Trichlorobenzene	ug/kg	-	ND (1.0)	ND (0.27)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.23)
1,2,4-Trichlorobenzene	ug/kg	-	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
1,1,1-Trichloroethane	ug/kg	100000	ND (0.65)	ND (0.18)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.14)	ND (0.15)
1,1,2-Trichloroethane	ug/kg	-	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.25)
Trichloroethene	ug/kg	21000	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	1.3 J	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.25)
Trichlorofluoromethane	ug/kg	-	ND (1.8)	ND (0.50)	ND (0.36)	ND (0.41)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.43)	ND (0.38)	ND (0.42)
Vinyl chloride	ug/kg	900	ND (0.88)	ND (0.24)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.19)	ND (0.20)
m,p-Xylene	ug/kg	100000	ND (1.1)	1.0 J	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	0.56 J	ND (0.25)	0.37 J	ND (0.25)
o-Xylene	ug/kg	100000	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
Xylene (total)	ug/kg	100000	ND (0.85)	1.0 J	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	0.56 J	ND (0.20)	0.37 J	ND (0.20)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



**Table 1  
Volatile Organic Compounds in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Volatiles (SW846)</b>												
Acetone	ug/kg	50	ND (1.9)	9.6 J	ND (2.0)	ND (1.8)	ND (2.0)	13.2	11.5 J	18.3	45.8	24.7
Benzene	ug/kg	60	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.12)	0.75 J	ND (0.15)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.16)
Bromochloromethane	ug/kg	-	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.27)	ND (0.31)	ND (0.34)	ND (0.32)	ND (0.39)	ND (0.38)	ND (0.35)
Bromodichloromethane	ug/kg	-	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.14)
Bromoform	ug/kg	-	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.22)	ND (0.22)	ND (0.20)
Bromomethane	ug/kg	-	ND (0.31)	ND (0.31)	ND (0.33)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.33)	ND (0.40)	ND (0.39)	ND (0.37)
2-Butanone (MEK)	ug/kg	120	ND (2.7)	ND (2.7)	ND (2.9)	ND (2.5)	ND (2.8)	ND (3.0)	ND (2.9)	ND (3.5)	ND (3.4)	ND (3.2)
Carbon disulfide	ug/kg	-	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.12)	ND (0.14)	ND (0.15)	1.3 J	1.4 J	6.4 J	3.7 J
Carbon tetrachloride	ug/kg	760	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.19)	ND (0.18)
Chlorobenzene	ug/kg	1100	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.16)	ND (0.15)	ND (0.14)
Chloroethane	ug/kg	-	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.24)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.33)	ND (0.33)	ND (0.30)
Chloroform	ug/kg	370	ND (0.094)	ND (0.093)	1.5 J	1.2 J	ND (0.097)	ND (0.11)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Chloromethane	ug/kg	-	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.27)	ND (0.27)	ND (0.25)
Cyclohexane	ug/kg	-	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.14)	ND (0.16)	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.17)
1,2-Dibromo-3-chloropropane	ug/kg	-	ND (1.0)	ND (1.0)	ND (1.1)	ND (0.92)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.3)	ND (1.3)	ND (1.2)
Dibromochloromethane	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.24)	ND (0.22)
1,2-Dibromoethane	ug/kg	-	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.19)	ND (0.18)	ND (0.17)
1,2-Dichlorobenzene	ug/kg	1100	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.28)	ND (0.27)	ND (0.25)
1,3-Dichlorobenzene	ug/kg	2400	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.27)	ND (0.27)	ND (0.25)
1,4-Dichlorobenzene	ug/kg	1800	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.24)
Dichlorodifluoromethane	ug/kg	-	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.24)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.34)	ND (0.33)	ND (0.30)
1,1-Dichloroethane	ug/kg	270	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.18)
1,2-Dichloroethane	ug/kg	20	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.20)	ND (0.19)	ND (0.18)
1,1-Dichloroethene	ug/kg	330	ND (0.29)	ND (0.29)	ND (0.31)	ND (0.27)	ND (0.30)	ND (0.33)	ND (0.31)	ND (0.38)	ND (0.37)	ND (0.34)
cis-1,2-Dichloroethene	ug/kg	250	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.19)	ND (0.21)	ND (0.23)	ND (0.22)	ND (0.27)	ND (0.26)	ND (0.24)
trans-1,2-Dichloroethene	ug/kg	190	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.25)	ND (0.28)	ND (0.30)	ND (0.29)	ND (0.35)	ND (0.34)	ND (0.32)
1,2-Dichloropropane	ug/kg	-	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.22)	ND (0.21)
cis-1,3-Dichloropropene	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
trans-1,3-Dichloropropene	ug/kg	-	ND (0.18)	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.23)	ND (0.22)	ND (0.21)
1,4-Dioxane	ug/kg	100	ND (68)	ND (67)	ND (71)	ND (62)	ND (70)	ND (76)	ND (72)	ND (87)	ND (85)	ND (80)
Ethylbenzene	ug/kg	1000	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.27)	ND (0.31)	ND (0.34)	ND (0.32)	ND (0.39)	ND (0.38)	ND (0.35)
Freon 113	ug/kg	-	ND (0.49)	ND (0.48)	ND (0.52)	ND (0.45)	ND (0.50)	ND (0.55)	ND (0.52)	ND (0.63)	ND (0.62)	ND (0.58)
2-Hexanone	ug/kg	-	ND (0.71)	ND (0.70)	ND (0.75)	ND (0.65)	ND (0.73)	ND (0.79)	ND (0.75)	ND (0.91)	ND (0.89)	ND (0.83)
Isopropylbenzene	ug/kg	-	ND (0.085)	ND (0.084)	ND (0.089)	ND (0.077)	ND (0.087)	ND (0.095)	ND (0.090)	ND (0.11)	ND (0.11)	ND (0.099)
Methyl Acetate	ug/kg	-	ND (3.0)	ND (2.9)	23.8	ND (2.7)	ND (3.0)	ND (3.3)	ND (3.1)	ND (3.8)	ND (3.7)	ND (3.5)
Methylcyclohexane	ug/kg	-	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.25)	ND (0.24)	ND (0.23)
Methyl Tert Butyl Ether	ug/kg	930	ND (0.27)	ND (0.26)	ND (0.28)	ND (0.24)	ND (0.27)	ND (0.30)	ND (0.28)	ND (0.35)	ND (0.34)	ND (0.31)
4-Methyl-2-pentanone(MIBK)	ug/kg	-	ND (0.86)	ND (0.84)	ND (0.90)	ND (0.78)	ND (0.88)	ND (0.96)	ND (0.90)	ND (1.1)	ND (1.1)	ND (1.0)
Methylene chloride	ug/kg	50	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.3)	ND (1.5)	ND (1.6)	ND (1.5)	ND (1.9)	ND (1.8)	ND (1.7)
Styrene	ug/kg	-	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.095)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.12)
1,1,2,2-Tetrachloroethane	ug/kg	-	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.19)	ND (0.19)	ND (0.18)
Tetrachloroethene	ug/kg	1300	ND (0.20)	ND (0.19)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.25)	ND (0.25)	ND (0.23)
Toluene	ug/kg	700	0.44 J	ND (0.12)	ND (0.13)	ND (0.11)	1.5	ND (0.13)	0.82 J	0.75 J	0.94 J	0.92 J
1,2,3-Trichlorobenzene	ug/kg	-	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.24)	ND (0.24)	ND (0.22)
1,2,4-Trichlorobenzene	ug/kg	-	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
1,1,1-Trichloroethane	ug/kg	680	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.14)	ND (0.13)	ND (0.16)	ND (0.15)	ND (0.14)
1,1,1-Trichloroethene	ug/kg	-	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.23)
Trichloroethene	ug/kg	470	14.5	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.20)	ND (0.22)	ND (0.21)	ND (0.26)	ND (0.25)	ND (0.23)
Trichlorofluoromethane	ug/kg	-	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.31)	ND (0.35)	ND (0.38)	ND (0.36)	ND (0.44)	ND (0.43)	ND (0.40)
Vinyl chloride	ug/kg	20	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.19)
m,p-Xylene	ug/kg	260	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.18)	0.64 J	ND (0.22)	ND (0.21)	ND (0.26)	0.67 J	0.70 J
o-Xylene	ug/kg	260	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	0.25 J	ND (0.18)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.19)
Xylene (total)	ug/kg	260	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.14)	0.89 J	ND (0.18)	ND (0.17)	ND (0.20)	0.67 J	0.70 J

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6.12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Volatiles (SW846)</b>												
Acetone	ug/kg	50	<b>70.7</b>	39.3	ND (2.0)	ND (2.3)	9.6 J	11.2 J	ND (2.1)	ND (2.4)	ND (2.2)	10.6 J
Benzene	ug/kg	60	ND (0.73)	<b>0.73 J</b>	ND (0.14)	ND (0.16)	ND (0.15)	ND (0.15)	<b>2.5</b>	<b>0.44 J</b>	<b>2.3</b>	<b>0.52 J</b>
Bromochloromethane	ug/kg	-	ND (1.6)	ND (0.44)	ND (0.32)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.34)	ND (0.37)
Bromodichloromethane	ug/kg	-	ND (0.64)	ND (0.18)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.14)	ND (0.15)
Bromoform	ug/kg	-	ND (0.92)	ND (0.25)	ND (0.18)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (0.21)
Bromomethane	ug/kg	-	ND (1.7)	ND (0.46)	ND (0.33)	ND (0.37)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)	ND (0.35)	ND (0.39)
2-Butanone (MEK)	ug/kg	120	ND (15)	ND (4.0)	ND (2.9)	ND (3.3)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.4)	ND (3.1)	ND (3.4)
Carbon disulfide	ug/kg	-	ND (0.72)	<b>3.1 J</b>	ND (0.14)	ND (0.16)	<b>1.0 J</b>	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.17)
Carbon tetrachloride	ug/kg	760	ND (0.81)	ND (0.22)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
Chlorobenzene	ug/kg	1100	ND (0.66)	ND (0.18)	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.15)
Chloroethane	ug/kg	-	ND (1.4)	ND (0.38)	ND (0.27)	ND (0.31)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.33)	ND (0.29)	ND (0.32)
Chloroform	ug/kg	370	ND (0.51)	ND (0.14)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.12)
Chloromethane	ug/kg	-	ND (1.1)	ND (0.31)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27)	ND (0.24)	ND (0.26)
Cyclohexane	ug/kg	-	ND (0.76)	ND (0.21)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.18)
1,2-Dibromo-3-chloropropane	ug/kg	-	ND (5.4)	ND (1.5)	ND (1.1)	ND (1.2)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.3)	ND (1.1)	ND (1.3)
Dibromochloromethane	ug/kg	-	ND (1.0)	ND (0.27)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.23)
1,2-Dibromoethane	ug/kg	-	ND (0.78)	ND (0.21)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.18)
1,2-Dichlorobenzene	ug/kg	1100	ND (1.2)	ND (0.32)	ND (0.23)	ND (0.26)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)	ND (0.27)
1,3-Dichlorobenzene	ug/kg	2400	ND (1.1)	ND (0.31)	ND (0.23)	ND (0.26)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27)	ND (0.24)	ND (0.26)
1,4-Dichlorobenzene	ug/kg	1800	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.25)
Dichlorodifluoromethane	ug/kg	-	ND (1.4)	ND (0.38)	ND (0.28)	ND (0.31)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.33)	ND (0.29)	ND (0.32)
1,1-Dichloroethane	ug/kg	270	ND (0.84)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.19)
1,2-Dichloroethane	ug/kg	20	ND (0.83)	ND (0.23)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
1,1-Dichloroethene	ug/kg	330	ND (1.6)	ND (0.43)	ND (0.31)	ND (0.35)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.37)	ND (0.33)	ND (0.36)
cis-1,2-Dichloroethene	ug/kg	250	ND (1.1)	ND (0.31)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.26)	ND (0.24)	ND (0.26)
trans-1,2-Dichloroethene	ug/kg	190	ND (1.5)	ND (0.40)	ND (0.29)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.34)	ND (0.31)	ND (0.34)
1,2-Dichloropropane	ug/kg	-	ND (0.94)	ND (0.26)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.22)
cis-1,3-Dichloropropene	ug/kg	-	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
trans-1,3-Dichloropropene	ug/kg	-	ND (0.95)	ND (0.26)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.22)
1,4-Dioxane	ug/kg	100	ND (360)	ND (99)	ND (72)	ND (81)	ND (74)	ND (75)	ND (74)	ND (86)	ND (77)	ND (84)
Ethylbenzene	ug/kg	1000	ND (1.6)	ND (0.44)	ND (0.32)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.34)	ND (0.37)
Freon 113	ug/kg	-	ND (2.6)	ND (0.72)	ND (0.52)	ND (0.59)	ND (0.53)	ND (0.54)	ND (0.54)	ND (0.62)	ND (0.55)	ND (0.61)
2-Hexanone	ug/kg	-	ND (3.8)	ND (1.0)	ND (0.75)	ND (0.85)	ND (0.77)	ND (0.78)	ND (0.78)	ND (0.90)	ND (0.80)	ND (0.88)
Isopropylbenzene	ug/kg	-	ND (0.45)	ND (0.12)	ND (0.090)	ND (0.10)	ND (0.092)	ND (0.093)	ND (0.093)	ND (0.11)	ND (0.096)	ND (0.11)
Methyl Acetate	ug/kg	-	ND (16)	ND (4.3)	<b>32</b>	<b>17.3</b>	ND (3.2)	ND (3.2)	ND (3.3)	ND (3.8)	ND (3.4)	ND (3.7)
Methylcyclohexane	ug/kg	-	ND (1.0)	ND (0.28)	ND (0.20)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.24)
Methyl Tert Butyl Ether	ug/kg	930	ND (1.4)	ND (0.39)	ND (0.28)	ND (0.32)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.34)	ND (0.30)	ND (0.33)
4-Methyl-2-pentanone(MIBK)	ug/kg	-	ND (4.6)	ND (1.3)	ND (0.91)	ND (1.0)	ND (0.93)	ND (0.94)	ND (0.94)	ND (1.1)	ND (0.97)	ND (1.1)
Methylene chloride	ug/kg	50	ND (7.8)	ND (2.1)	ND (1.5)	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.8)	ND (1.6)	ND (1.8)
Styrene	ug/kg	-	ND (0.56)	ND (0.15)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.13)
1,1,2,2-Tetrachloroethane	ug/kg	-	ND (0.81)	ND (0.22)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.19)
Tetrachloroethene	ug/kg	1300	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.24)
Toluene	ug/kg	700	ND (0.64)	<b>1.9</b>	ND (0.13)	ND (0.14)	<b>0.48 J</b>	ND (0.13)	<b>2.7</b>	<b>0.58 J</b>	<b>1.8</b>	ND (0.15)
1,2,3-Trichlorobenzene	ug/kg	-	ND (1.0)	ND (0.27)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.23)
1,2,4-Trichlorobenzene	ug/kg	-	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
1,1,1-Trichloroethane	ug/kg	680	ND (0.65)	ND (0.18)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.14)	ND (0.15)
1,1,2-Trichloroethane	ug/kg	-	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.25)
Trichloroethene	ug/kg	470	ND (1.1)	ND (0.29)	ND (0.21)	ND (0.24)	<b>1.3 J</b>	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)	ND (0.25)
Trichlorofluoromethane	ug/kg	-	ND (1.8)	ND (0.50)	ND (0.36)	ND (0.41)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.43)	ND (0.38)	ND (0.42)
Vinyl chloride	ug/kg	20	ND (0.88)	ND (0.24)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.19)	ND (0.20)
m,p-Xylene	ug/kg	260	ND (1.1)	<b>1.0 J</b>	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	<b>0.56 J</b>	ND (0.25)	<b>0.37 J</b>	ND (0.25)
o-Xylene	ug/kg	260	ND (0.85)	ND (0.23)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.18)	ND (0.20)
Xylene (total)	ug/kg	260	ND (0.85)	<b>1.0 J</b>	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	<b>0.56 J</b>	ND (0.20)	<b>0.37 J</b>	ND (0.20)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for VOCs using EPA Method 8260.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSEDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



**Table 2**  
**Semi Volatile Organic Compounds in Groundwater**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY TOGS Class	GW-4 (ALT)	GW-5	GW-6	GW-7 (ALT)	GW-8 (ALT)
Lab Sample ID:		GA GW Standards	JB13738-1	JB13738-2	JB13738-3	JB13738-7	JB13738-8
Date Sampled:		(NYSDEC 6/2004) <sup>1</sup>	8/8/2012	8/8/2012	8/8/2012	8/10/2012	8/13/2012
Matrix:			Ground Water				
<b>GC/MS Volatiles (SW846)</b>							
2-Chlorophenol	ug/l	-	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.2)	ND (0.97)
4-Chloro-3-methyl phenol	ug/l	-	ND (2.0)	ND (2.1)	ND (2.1)	ND (2.2)	ND (1.8)
2,4-Dichlorophenol	ug/l	1	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.2)
2,4-Dimethylphenol	ug/l	1	ND (1.7)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.5)
2,4-Dinitrophenol	ug/l	1	ND (19)	ND (19)	ND (19)	ND (20)	ND (17)
4,6-Dinitro-o-cresol	ug/l	-	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.2)	ND (0.99)
2-Methylphenol	ug/l	-	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.0)
3&4-Methylphenol	ug/l	-	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.93)
2-Nitrophenol	ug/l	-	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.8)	ND (1.5)
4-Nitrophenol	ug/l	-	ND (5.8)	ND (6.0)	ND (6.0)	ND (6.2)	ND (5.2)
Pentachlorophenol	ug/l	1	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.4)
Phenol	ug/l	1	ND (1.4)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)
2,3,4,6-Tetrachlorophenol	ug/l	-	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.94)
2,4,5-Trichlorophenol	ug/l	-	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.6)
2,4,6-Trichlorophenol	ug/l	-	ND (1.4)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)
Acenaphthene	ug/l	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.26)
Acenaphthylene	ug/l	-	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.23)
Acetophenone	ug/l	-	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.29)
Anthracene	ug/l	-	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.29)
Atrazine	ug/l	7.5	ND (0.55)	ND (0.56)	ND (0.56)	ND (0.58)	ND (0.49)
Benzaldehyde	ug/l	-	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.9)	ND (3.3)
Benzo(a)anthracene	ug/l	-	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.23)
Benzo(a)pyrene	ug/l	ND	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.23)
Benzo(b)fluoranthene	ug/l	-	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.54)	ND (0.46)
Benzo(g,h,i)perylene	ug/l	-	ND (0.36)	ND (0.37)	ND (0.37)	ND (0.38)	ND (0.32)
Benzo(k)fluoranthene	ug/l	-	ND (0.57)	ND (0.59)	ND (0.59)	ND (0.60)	ND (0.51)
4-Bromophenyl phenyl ether	ug/l	-	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.42)	ND (0.36)
Butyl benzyl phthalate	ug/l	-	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.29)
1,1'-Biphenyl	ug/l	5	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.30)
2-Chloronaphthalene	ug/l	-	ND (0.33)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.30)
4-Chloroaniline	ug/l	5	ND (0.59)	ND (0.61)	ND (0.61)	ND (0.62)	ND (0.53)
Carbazole	ug/l	-	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.43)	ND (0.36)
Caprolactam	ug/l	-	ND (0.77)	ND (0.79)	ND (0.79)	ND (0.82)	ND (0.69)
Chrysene	ug/l	-	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.29)
bis(2-Chloroethoxy)methane	ug/l	5	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.31)
bis(2-Chloroethyl)ether	ug/l	1	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.31)
bis(2-Chloroisopropyl)ether	ug/l	5	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.54)	ND (0.45)
4-Chlorophenyl phenyl ether	ug/l	-	ND (0.35)	ND (0.36)	ND (0.36)	ND (0.37)	ND (0.31)
2,4-Dinitrotoluene	ug/l	5	ND (0.48)	ND (0.49)	ND (0.49)	ND (0.50)	ND (0.43)
2,6-Dinitrotoluene	ug/l	5	ND (0.52)	ND (0.53)	ND (0.53)	ND (0.55)	ND (0.46)
3,3'-Dichlorobenzidine	ug/l	5	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.43)	ND (0.36)
Dibenzo(a,h)anthracene	ug/l	-	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.45)	ND (0.38)
Dibenzofuran	ug/l	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.27)
Di-n-butyl phthalate	ug/l	50	ND (0.62)	ND (0.64)	1.7 J	ND (0.66)	ND (0.56)
Di-n-octyl phthalate	ug/l	-	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.31)
Diethyl phthalate	ug/l	-	3.4	4.1	2.1 J	ND (0.39)	ND (0.33)
Dimethyl phthalate	ug/l	-	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.28)
bis(2-Ethylhexyl)phthalate	ug/l	5	ND (0.66)	3.4	3.8	ND (0.69)	ND (0.59)
Fluoranthene	ug/l	-	ND (0.36)	ND (0.37)	ND (0.37)	ND (0.38)	ND (0.32)
Fluorene	ug/l	-	ND (0.31)	ND (0.32)	ND (0.32)	ND (0.33)	ND (0.28)
Hexachlorobenzene	ug/l	0.04	ND (0.38)	ND (0.39)	ND (0.39)	ND (0.40)	ND (0.34)
Hexachlorobutadiene	ug/l	0.5	ND (0.58)	ND (0.59)	ND (0.59)	ND (0.61)	ND (0.51)
Hexachlorocyclopentadiene	ug/l	5	ND (8.0)	ND (8.2)	ND (8.2)	ND (8.4)	ND (7.1)
Hexachloroethane	ug/l	5	ND (0.62)	ND (0.63)	ND (0.63)	ND (0.65)	ND (0.55)
Indeno(1,2,3-cd)pyrene	ug/l	-	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.44)	ND (0.37)
Isophorone	ug/l	-	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.32)	ND (0.27)
2-Methylnaphthalene	ug/l	-	ND (0.43)	ND (0.44)	ND (0.44)	ND (0.45)	ND (0.38)
2-Nitroaniline	ug/l	5	ND (1.2)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.1)
3-Nitroaniline	ug/l	5	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.3)
4-Nitroaniline	ug/l	5	ND (1.9)	ND (1.9)	ND (1.9)	ND (2.0)	ND (1.7)
Naphthalene	ug/l	-	ND (0.29)	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.26)
Nitrobenzene	ug/l	0.4	ND (0.47)	ND (0.48)	ND (0.48)	ND (0.50)	ND (0.42)
N-Nitroso-di-n-propylamine	ug/l	-	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.30)
N-Nitrosodiphenylamine	ug/l	-	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.31)
Phenanthrene	ug/l	-	ND (0.33)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.29)
Pyrene	ug/l	-	ND (0.30)	ND (0.31)	ND (0.31)	ND (0.32)	ND (0.27)
1,2,4,5-Tetrachlorobenzene	ug/l	5	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.31)

**Notes**

All results given in micrograms per liter (ug/L)

Samples analyzed for SVOCs using EPA Method 8270.

<sup>1</sup>A

**old/highlighted values exceeded the NYSDEC TOGS 1.1.1.**

D = Not Detected

S = No Standard

herefore, the result is estimated.



Table 2  
Semi Volatile Organic Compounds in

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 (12/06))	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)	
Lab Sample ID:		JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18	
Date Sampled:		8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012	
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
<b>GC/MS Semi-volatiles (SW846 8270D)</b>												
2-Chlorophenol	ug/kg	-	ND (32)	ND (31)	ND (30)	ND (29)	ND (31)	ND (34)	ND (32)	ND (36)	ND (35)	ND (37)
4-Chloro-3-methyl phenol	ug/kg	-	ND (32)	ND (30)	ND (29)	ND (29)	ND (31)	ND (34)	ND (32)	ND (36)	ND (35)	ND (37)
2,4-Dichlorophenol	ug/kg	-	ND (51)	ND (49)	ND (47)	ND (47)	ND (49)	ND (55)	ND (52)	ND (58)	ND (56)	ND (60)
2,4-Dimethylphenol	ug/kg	-	ND (53)	ND (51)	ND (49)	ND (49)	ND (51)	ND (57)	ND (54)	ND (61)	ND (58)	ND (62)
2,4-Dinitrophenol	ug/kg	-	ND (39)	ND (37)	ND (36)	ND (35)	ND (37)	ND (42)	ND (39)	ND (44)	ND (42)	ND (45)
4,6-Dinitro-o-cresol	ug/kg	-	ND (39)	ND (37)	ND (36)	ND (35)	ND (37)	ND (42)	ND (39)	ND (44)	ND (42)	ND (45)
2-Methylphenol	ug/kg	500000	ND (36)	ND (34)	ND (33)	ND (33)	ND (35)	ND (39)	ND (37)	ND (41)	ND (40)	ND (42)
3&4-Methylphenol	ug/kg	-	ND (40)	ND (38)	ND (37)	ND (37)	ND (39)	ND (43)	ND (41)	ND (46)	ND (44)	ND (47)
2-Nitrophenol	ug/kg	-	ND (33)	ND (32)	ND (31)	ND (31)	ND (32)	ND (36)	ND (34)	ND (38)	ND (37)	ND (39)
4-Nitrophenol	ug/kg	-	ND (53)	ND (51)	ND (49)	ND (49)	ND (52)	ND (58)	ND (54)	ND (61)	ND (59)	ND (63)
Pentachlorophenol	ug/kg	6700	ND (54)	ND (52)	ND (50)	ND (50)	ND (52)	ND (58)	ND (55)	ND (62)	ND (59)	ND (63)
Phenol	ug/kg	500000	ND (33)	ND (32)	ND (31)	ND (30)	ND (32)	ND (36)	ND (34)	ND (38)	ND (36)	ND (39)
2,3,4,6-Tetrachlorophenol	ug/kg	-	ND (33)	ND (31)	ND (30)	ND (30)	ND (31)	ND (35)	ND (33)	ND (37)	ND (36)	ND (38)
2,4,5-Trichlorophenol	ug/kg	-	ND (37)	ND (35)	ND (34)	ND (34)	ND (35)	ND (40)	ND (37)	ND (42)	ND (40)	ND (43)
2,4,6-Trichlorophenol	ug/kg	-	ND (30)	ND (28)	ND (27)	ND (27)	ND (29)	ND (32)	ND (30)	ND (34)	ND (33)	ND (35)
Acenaphthene	ug/kg	500000	176	ND (8.8)	ND (8.5)	ND (8.4)	ND (8.9)	ND (9.9)	156	18.4 J	ND (10)	26.8 J
Acenaphthylene	ug/kg	500000	31.7 J	ND (9.7)	ND (9.4)	ND (9.3)	ND (9.8)	ND (11)	53.7	ND (12)	ND (11)	ND (12)
Acetophenone	ug/kg	-	ND (5.6)	ND (5.3)	ND (5.1)	ND (5.1)	ND (5.4)	ND (6.0)	ND (5.6)	ND (6.4)	ND (6.1)	ND (6.5)
Anthracene	ug/kg	500000	404	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	452	44.2	ND (12)	63.4
Atrazine	ug/kg	-	ND (6.2)	ND (5.9)	ND (5.8)	ND (5.7)	ND (6.0)	ND (6.7)	ND (6.3)	ND (7.1)	ND (6.8)	ND (7.3)
Benzo(a)anthracene	ug/kg	5600	1140	49.1	31.7	ND (9.5)	38.6	18.6 J	1070	107	29.7 J	155
Benzo(a)pyrene	ug/kg	1000	1030	45.3	23.8 J	ND (8.9)	38.8	14.1 J	985	94.7	23.3 J	130
Benzo(b)fluoranthene	ug/kg	5600	1140	46.9	23.3 J	ND (9.7)	39.2	16.6 J	839	79.4	21.2 J	109
Benzo(g,h,i)perylene	ug/kg	500000	705	36.9	17.9 J	ND (11)	31.5	ND (13)	618	62.3	16.9 J	74.9
Benzo(k)fluoranthene	ug/kg	56000	779	45.8	21.5 J	ND (11)	29.0 J	15.1 J	742	72.4	17.7 J	101
4-Bromophenyl phenyl ether	ug/kg	-	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)
Butyl benzyl phthalate	ug/kg	-	ND (18)	ND (17)	ND (17)	ND (17)	ND (18)	ND (20)	ND (19)	ND (21)	ND (20)	ND (21)
1,1'-Biphenyl	ug/kg	-	ND (3.7)	ND (3.5)	ND (3.4)	ND (3.4)	ND (3.5)	ND (4.0)	ND (3.7)	ND (4.2)	ND (4.0)	ND (4.3)
Benzaldehyde	ug/kg	-	ND (7.3)	ND (6.9)	ND (6.7)	ND (6.7)	ND (7.0)	ND (7.8)	ND (7.4)	ND (8.3)	ND (8.0)	ND (8.5)
2-Chloronaphthalene	ug/kg	-	ND (9.8)	ND (9.4)	ND (9.1)	ND (9.0)	ND (9.5)	ND (11)	ND (9.9)	ND (11)	ND (11)	ND (12)
4-Chloroaniline	ug/kg	-	ND (10)	ND (9.7)	ND (9.4)	ND (9.3)	ND (9.8)	ND (11)	ND (10)	ND (12)	ND (11)	ND (12)
Carbazole	ug/kg	-	142	ND (14)	ND (14)	ND (13)	ND (14)	ND (16)	151	20.3 J	ND (16)	23.9 J
Caprolactam	ug/kg	-	ND (9.9)	ND (9.5)	ND (9.2)	ND (9.1)	ND (9.6)	ND (11)	ND (10)	ND (11)	ND (11)	ND (12)
Chrysene	ug/kg	56000	1440	64.3	30.7	ND (9.8)	44.2	21.5 J	1050	104	27.5 J	159
bis(2-Chloroethoxy)methane	ug/kg	-	ND (13)	ND (12)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (15)	ND (14)	ND (15)
bis(2-Chloroethyl)ether	ug/kg	-	ND (9.5)	ND (9.1)	ND (8.8)	ND (8.7)	ND (9.2)	ND (10)	ND (9.7)	ND (11)	ND (10)	ND (11)
bis(2-Chloroisopropyl)ether	ug/kg	-	ND (9.4)	ND (9.0)	ND (8.7)	ND (8.6)	ND (9.1)	ND (10)	ND (9.5)	ND (11)	ND (10)	ND (11)
4-Chlorophenyl phenyl ether	ug/kg	-	ND (9.5)	ND (9.1)	ND (8.8)	ND (8.7)	ND (9.2)	ND (10)	ND (9.7)	ND (11)	ND (10)	ND (11)
2,4-Dinitrotoluene	ug/kg	-	ND (14)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (14)	ND (16)	ND (15)	ND (16)
2,6-Dinitrotoluene	ug/kg	-	ND (12)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (14)	ND (13)	ND (14)
3,3'-Dichlorobenzidine	ug/kg	-	ND (8.0)	ND (7.7)	ND (7.4)	ND (7.4)	ND (7.8)	ND (8.7)	ND (8.1)	ND (9.2)	ND (8.8)	ND (9.4)
Dibenzo(a,h)anthracene	ug/kg	560	329	16.2 J	ND (10)	ND (9.9)	11.3 J	ND (12)	302	23.0 J	ND (12)	37.3
Dibenzofuran	ug/kg	350000	74.2	ND (9.0)	ND (8.7)	ND (8.6)	ND (9.1)	ND (10)	63.1 J	ND (11)	ND (10)	ND (11)
Di-n-butyl phthalate	ug/kg	-	ND (7.0)	ND (6.7)	34.4 J	ND (6.4)	ND (6.8)	ND (7.6)	ND (7.1)	ND (8.0)	ND (7.7)	ND (8.2)
Di-n-octyl phthalate	ug/kg	-	ND (15)	ND (15)	ND (14)	ND (14)	ND (15)	ND (17)	ND (16)	ND (18)	ND (17)	ND (18)
Diethyl phthalate	ug/kg	-	ND (11)	ND (10)	ND (10)	ND (9.9)	ND (10)	ND (12)	ND (11)	ND (12)	ND (12)	ND (13)
Dimethyl phthalate	ug/kg	-	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (11)	ND (13)	ND (12)	ND (13)
bis(2-Ethylhexyl)phthalate	ug/kg	-	35.1 J	88	59	ND (26)	ND (27)	ND (30)	ND (28)	ND (32)	ND (31)	ND (33)
Fluoranthene	ug/kg	500000	3030	131	70.9	ND (13)	75.4	50.1	2330	240	61.2	357
Fluorene	ug/kg	500000	156	ND (9.9)	ND (9.6)	ND (9.5)	ND (10)	ND (11)	170	17.7 J	ND (11)	23.2 J
Hexachlorobenzene	ug/kg	6000	ND (10)	ND (9.8)	ND (9.5)	ND (9.5)	ND (10)	ND (11)	ND (10)	ND (12)	ND (11)	ND (12)
Hexachlorobutadiene	ug/kg	-	ND (8.8)	ND (8.4)	ND (8.1)	ND (8.1)	ND (8.5)	ND (9.5)	ND (8.9)	ND (10)	ND (9.7)	ND (10)
Hexachlorocyclopentadiene	ug/kg	-	ND (32)	ND (31)	ND (30)	ND (30)	ND (31)	ND (35)	ND (33)	ND (37)	ND (35)	ND (38)
Hexachloroethane	ug/kg	-	ND (8.8)	ND (8.4)	ND (8.1)	ND (8.1)	ND (8.5)	ND (9.5)	ND (8.9)	ND (10)	ND (9.7)	ND (10)
Indeno(1,2,3-cd)pyrene	ug/kg	5600	678	34.2	16.3 J	ND (10)	25.3 J	ND (12)	572	56.4	ND (12)	68.9
Isophorone	ug/kg	-	ND (8.5)	ND (8.1)	ND (7.9)	ND (7.8)	ND (8.2)	ND (9.2)	ND (8.6)	ND (9.7)	ND (9.3)	ND (10)
2-Methylnaphthalene	ug/kg	-	30.7 J	ND (17)	ND (16)	ND (16)	ND (17)	ND (19)	33.4 J	ND (20)	ND (19)	ND (21)
2-Nitroaniline	ug/kg	-	ND (14)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (14)	ND (16)	ND (15)	ND (16)
3-Nitroaniline	ug/kg	-	ND (13)	ND (12)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (14)	ND (14)	ND (15)
4-Nitroaniline	ug/kg	-	ND (12)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (13)	ND (14)	ND (14)	ND (14)
Naphthalene	ug/kg	500000	19.6 J	ND (8.2)	ND (8.0)	ND (7.9)	ND (8.3)	ND (9.3)	34.3	ND (9.9)	ND (9.5)	ND (10)
Nitrobenzene	ug/kg	69000	ND (9.1)	ND (8.7)	ND (8.4)	ND (8.4)	ND (8.8)	ND (9.9)	ND (9.3)	ND (10)	ND (10)	ND (11)
N-Nitroso-di-n-propylamine	ug/kg	-	ND (7.7)	ND (7.4)	ND (7.1)	ND (7.1)	ND (7.5)	ND (8.3)	ND (7.8)	ND (8.8)	ND (8.5)	ND (9.1)
N-Nitrosodiphenylamine	ug/kg	-	ND (19)	ND (18)	ND (17)	ND (17)	ND (18)	ND (20)	ND (19)	ND (22)	ND (21)	ND (22)
Phenanthrene	ug/kg	500000	2500	68.2	35.7	ND (13)	38.2	22.5 J	1770	188	39.3	280
Pyrene	ug/kg	500000	2450	106	56.8	ND (11)	64.9	38.7	1930	212	52.2	298
1,2,4,5-Tetrachlorobenzene	ug/kg	-	ND (9.7)	ND (9.3)	ND (9.0)	ND (8.9)	ND (9.4)	ND (10)	ND (9.8)	ND (11)	ND (11)	ND (11)

**Notes**  
All results given in micrograms per kilogram (ug/kg)  
Samples analyzed for SVOCs using EPA Method 8270.  
Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use.**

ND = Not Detected  
NS = No Standard  
J = Data indicates the presence of a compound less than the qualitative reporting detection limit (RDL) but greater than the quantitative method detection limit (MDL). Therefore, the result is



Client Sample ID:	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:		JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:		8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Semi-volatiles (SW846 8270D)</b>											
2-Chlorophenol	ug/kg	ND (35)	ND (43)	ND (31)	ND (32)	ND (32)	ND (33)	ND (32)	ND (37)	ND (33)	ND (36)
4-Chloro-3-methyl phenol	ug/kg	-	ND (35)	ND (43)	ND (31)	ND (32)	ND (31)	ND (33)	ND (32)	ND (37)	ND (35)
2,4-Dichlorophenol	ug/kg	-	ND (56)	ND (69)	ND (50)	ND (51)	ND (50)	ND (53)	ND (61)	ND (60)	ND (57)
2,4-Dimethylphenol	ug/kg	-	ND (59)	ND (72)	ND (52)	ND (54)	ND (52)	ND (55)	ND (63)	ND (62)	ND (60)
2,4-Dinitrophenol	ug/kg	-	ND (43)	ND (52)	ND (38)	ND (39)	ND (38)	ND (40)	ND (39)	ND (45)	ND (43)
4,6-Dinitro-o-cresol	ug/kg	-	ND (43)	ND (52)	ND (38)	ND (39)	ND (38)	ND (40)	ND (39)	ND (45)	ND (43)
2-Methylphenol	ug/kg	500000	ND (40)	ND (49)	ND (35)	ND (36)	ND (36)	ND (38)	ND (39)	ND (42)	ND (37)
3,4-Methylphenol	ug/kg	-	ND (44)	ND (55)	ND (39)	ND (41)	ND (40)	ND (42)	ND (40)	ND (47)	ND (45)
2-Nitrophenol	ug/kg	-	ND (37)	ND (46)	ND (33)	ND (34)	ND (33)	ND (35)	ND (34)	ND (39)	ND (38)
4-Nitrophenol	ug/kg	-	ND (59)	ND (73)	ND (52)	ND (54)	ND (53)	ND (56)	ND (64)	ND (63)	ND (60)
Pentachlorophenol	ug/kg	6700	ND (60)	ND (73)	ND (53)	ND (55)	ND (53)	ND (56)	ND (64)	ND (63)	ND (61)
Phenol	ug/kg	500000	ND (37)	ND (45)	ND (33)	ND (34)	ND (33)	ND (35)	ND (33)	ND (39)	ND (37)
2,3,4,6-Tetrachlorophenol	ug/kg	-	ND (36)	ND (44)	ND (32)	ND (33)	ND (32)	ND (34)	ND (33)	ND (38)	ND (36)
2,4,5-Trichlorophenol	ug/kg	-	ND (40)	ND (50)	ND (36)	ND (37)	ND (36)	ND (38)	ND (37)	ND (43)	ND (41)
2,4,6-Trichlorophenol	ug/kg	-	ND (33)	ND (40)	ND (29)	ND (30)	ND (29)	ND (31)	ND (30)	ND (35)	ND (33)
Acenaphthene	ug/kg	500000	2810	ND (12)	ND (9.0)	16.3 J	ND (9.0)	576	ND (11)	394	ND (10)
Acenaphthylene	ug/kg	500000	17.1 J	ND (14)	ND (9.9)	20.1 J	ND (10)	300	ND (12)	65.8	ND (11)
Acetophenone	ug/kg	-	ND (6.1)	ND (7.6)	ND (5.5)	ND (5.6)	ND (5.5)	ND (5.8)	ND (5.6)	ND (6.5)	ND (6.2)
Anthracene	ug/kg	500000	626	24.9 J	ND (11)	49.2	15.3 J	16.9 J	1320	ND (13)	802
Atrazine	ug/kg	-	ND (6.9)	ND (8.5)	ND (6.1)	ND (6.3)	ND (6.1)	ND (6.5)	ND (6.3)	ND (7.3)	ND (6.4)
Benzo(a)anthracene	ug/kg	5600	208	89.9	21.1 J	154	32.5	30.9 J	2060	ND (12)	1190
Benzo(a)pyrene	ug/kg	1000	104	71.8	14.6 J	138	22.4 J	19.0 J	1580	ND (11)	850
Benzo(b)fluoranthene	ug/kg	5600	100	63.1	17.9 J	160	22.4 J	19.1 J	2100	ND (12)	977
Benzo(g,h,i)perylene	ug/kg	500000	61.5	42.6 J	ND (12)	105	13.6 J	ND (12)	867	ND (14)	457
Benzo(k)fluoranthene	ug/kg	56000	93.3	57.7	ND (12)	75	ND (12)	ND (12)	542	ND (14)	453
4-Bromophenyl phenyl ether	ug/kg	-	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)
Butyl benzyl phthalate	ug/kg	-	ND (20)	ND (25)	ND (18)	89.6	ND (18)	ND (19)	ND (18)	ND (21)	ND (21)
1,1'-Biphenyl	ug/kg	-	414	ND (5.0)	ND (3.6)	ND (3.7)	ND (3.6)	ND (3.8)	102	ND (4.3)	53.6 J
Benzaldehyde	ug/kg	-	ND (8.0)	ND (9.9)	ND (7.1)	ND (7.3)	ND (7.2)	ND (7.3)	ND (8.5)	ND (7.5)	ND (8.2)
2-Chloronaphthalene	ug/kg	-	ND (11)	ND (13)	ND (9.6)	ND (9.9)	ND (9.7)	ND (10)	ND (9.9)	ND (11)	ND (11)
4-Chloroaniline	ug/kg	-	ND (11)	ND (14)	ND (9.9)	ND (10)	ND (10)	ND (11)	ND (10)	ND (12)	ND (10)
Carbazole	ug/kg	-	831	ND (20)	ND (14)	23.8 J	ND (14)	ND (15)	706	ND (17)	424
Caprolactam	ug/kg	-	ND (11)	ND (14)	ND (9.8)	ND (10)	ND (9.8)	ND (10)	ND (10)	ND (12)	ND (10)
Chrysene	ug/kg	56000	208	90.3	17.5 J	173	28.7 J	24.7 J	2260	ND (13)	1110
bis(2-Chloroethoxy)methane	ug/kg	-	ND (14)	ND (17)	ND (13)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (13)
bis(2-Chloroethyl)ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.4)	ND (9.9)	ND (9.6)	ND (11)	ND (9.8)
bis(2-Chloroisopropyl)ether	ug/kg	-	ND (10)	ND (13)	ND (9.2)	ND (9.5)	ND (9.3)	ND (9.8)	ND (9.4)	ND (11)	ND (9.7)
4-Chlorophenyl phenyl ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.3)	ND (9.4)	ND (9.9)	ND (9.6)	ND (11)	ND (9.8)
2,4-Dinitrotoluene	ug/kg	-	ND (15)	ND (19)	ND (14)	ND (14)	ND (14)	ND (14)	ND (14)	ND (16)	ND (15)
2,6-Dinitrotoluene	ug/kg	-	ND (13)	ND (16)	ND (12)	ND (12)	ND (13)	ND (12)	ND (14)	ND (12)	ND (14)
3,3'-Dichlorobenzidine	ug/kg	-	ND (8.9)	ND (11)	ND (7.9)	ND (8.1)	ND (7.9)	ND (8.4)	ND (8.1)	ND (9.4)	ND (9.0)
Dibenz(a,h)anthracene	ug/kg	560	28.7 J	21.7 J	ND (11)	28.9 J	ND (11)	ND (11)	290	ND (13)	140
Dibenzofuran	ug/kg	350000	1840	ND (13)	ND (9.2)	ND (9.5)	ND (9.3)	ND (9.8)	645	ND (11)	322
Di-n-butyl phthalate	ug/kg	-	ND (7.7)	ND (9.5)	ND (6.9)	48.8 J	ND (6.9)	ND (7.3)	35.8 J	ND (8.2)	ND (7.2)
Di-n-octyl phthalate	ug/kg	-	ND (17)	ND (21)	ND (15)	ND (16)	ND (15)	ND (16)	ND (15)	ND (18)	ND (17)
Diethyl phthalate	ug/kg	-	ND (12)	ND (15)	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (13)	ND (11)
Dimethyl phthalate	ug/kg	-	47.0 J	ND (15)	ND (11)	ND (11)	ND (11)	ND (12)	ND (11)	ND (13)	ND (11)
bis(2-Ethylhexyl)phthalate	ug/kg	-	ND (31)	ND (38)	ND (27)	213	52.3 J	36.4 J	ND (28)	ND (33)	ND (29)
Fluoranthene	ug/kg	500000	1440	184	36.7	303	67.8	55.4	5920	ND (16)	2970
Fluorene	ug/kg	500000	2300	ND (14)	ND (10)	16.5 J	ND (10)	ND (11)	671	ND (12)	434
Hexachlorobenzene	ug/kg	6000	ND (11)	ND (14)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (12)	ND (11)
Hexachlorobutadiene	ug/kg	-	ND (9.7)	ND (12)	ND (8.6)	ND (8.9)	ND (8.7)	ND (9.1)	ND (8.8)	ND (10)	ND (9.9)
Hexachlorocyclopentadiene	ug/kg	-	ND (36)	ND (44)	ND (33)	ND (32)	ND (32)	ND (34)	ND (32)	ND (38)	ND (33)
Hexachloroethane	ug/kg	-	ND (9.7)	ND (12)	ND (8.6)	ND (8.9)	ND (8.7)	ND (9.1)	ND (8.8)	ND (10)	ND (9.9)
Indeno(1,2,3-cd)pyrene	ug/kg	5600	54.1	37.6 J	ND (11.2)	83.2	11.8 J	ND (11)	820	ND (13)	434
Isophorone	ug/kg	-	ND (9.4)	ND (12)	ND (8.4)	ND (8.6)	ND (8.4)	ND (8.8)	ND (8.6)	ND (10)	ND (8.7)
2-Methylnaphthalene	ug/kg	-	2560	ND (24)	ND (17)	ND (18)	ND (17)	ND (18)	414	ND (21)	204
2-Nitroaniline	ug/kg	-	ND (15)	ND (19)	ND (14)	ND (14)	ND (14)	ND (14)	ND (14)	ND (16)	ND (14)
3-Nitroaniline	ug/kg	-	ND (14)	ND (17)	ND (12)	ND (13)	ND (12)	ND (13)	ND (13)	ND (15)	ND (14)
4-Nitroaniline	ug/kg	-	ND (14)	ND (17)	ND (12)	ND (12)	ND (12)	ND (13)	ND (12)	ND (14)	ND (13)
Naphthalene	ug/kg	500000	1680	ND (12)	ND (8.5)	ND (8.7)	ND (8.5)	ND (9.0)	874	ND (10)	696
Nitrobenzene	ug/kg	69000	ND (10)	ND (12)	ND (9.0)	ND (9.2)	ND (9.0)	ND (9.5)	ND (9.2)	ND (11)	ND (9.4)
N-Nitrosod-n-propylamine	ug/kg	-	ND (8.5)	ND (10)	ND (7.6)	ND (7.8)	ND (7.6)	ND (8.0)	ND (7.8)	ND (9.0)	ND (8.6)
N-Nitrosodiphenylamine	ug/kg	-	ND (21)	ND (26)	ND (19)	ND (19)	ND (19)	ND (19)	ND (19)	ND (22)	ND (19)
Phenanthrene	ug/kg	500000	5190	113	30.5 J	224	69.5	53.7	7150	ND (17)	3550
Pyrene	ug/kg	500000	927	158	38.6	321	62.4	50.3	4710	ND (14)	2490
1,2,4,5-Tetrachlorobenzene	ug/kg	-	ND (11)	ND (13)	ND (9.5)	ND (9.8)	ND (9.6)	ND (10)	ND (9.8)	ND (11)	ND (10)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for SVOCs using EPA Method 8270.

Results Compared to New York, State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCC - Commercial Use.**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



**Table 2**  
**Semi Volatile Organic Compounds**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:		JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:		8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Semi-volatiles (SW846 8270D)</b>											
2-Chlorophenol	ug/kg	-	ND (32)	ND (31)	ND (30)	ND (29)	ND (31)	ND (34)	ND (32)	ND (36)	ND (37)
4-Chloro-3-methyl phenol	ug/kg	-	ND (32)	ND (30)	ND (29)	ND (29)	ND (31)	ND (34)	ND (32)	ND (36)	ND (37)
2,4-Dichlorophenol	ug/kg	-	ND (51)	ND (49)	ND (47)	ND (47)	ND (49)	ND (55)	ND (52)	ND (58)	ND (60)
2,4-Dimethylphenol	ug/kg	-	ND (53)	ND (51)	ND (49)	ND (49)	ND (51)	ND (57)	ND (54)	ND (61)	ND (62)
2,4-Dinitrophenol	ug/kg	-	ND (39)	ND (37)	ND (36)	ND (35)	ND (37)	ND (42)	ND (39)	ND (44)	ND (45)
4,6-Dinitro-o-cresol	ug/kg	-	ND (39)	ND (37)	ND (36)	ND (35)	ND (37)	ND (42)	ND (39)	ND (44)	ND (45)
2-Methylphenol	ug/kg	100000	ND (36)	ND (34)	ND (33)	ND (33)	ND (35)	ND (39)	ND (37)	ND (41)	ND (42)
3,4-Methylphenol	ug/kg	-	ND (40)	ND (38)	ND (37)	ND (37)	ND (39)	ND (43)	ND (41)	ND (46)	ND (47)
2-Nitrophenol	ug/kg	-	ND (33)	ND (32)	ND (31)	ND (31)	ND (32)	ND (36)	ND (34)	ND (38)	ND (39)
4-Nitrophenol	ug/kg	-	ND (53)	ND (51)	ND (49)	ND (49)	ND (52)	ND (58)	ND (54)	ND (61)	ND (63)
Pentachlorophenol	ug/kg	6700	ND (54)	ND (52)	ND (50)	ND (50)	ND (52)	ND (58)	ND (55)	ND (62)	ND (63)
Phenol	ug/kg	100000	ND (33)	ND (32)	ND (31)	ND (30)	ND (32)	ND (36)	ND (34)	ND (38)	ND (39)
2,3,4,6-Tetrachlorophenol	ug/kg	-	ND (33)	ND (31)	ND (30)	ND (30)	ND (31)	ND (35)	ND (33)	ND (37)	ND (38)
2,4,5-Trichlorophenol	ug/kg	-	ND (37)	ND (35)	ND (34)	ND (34)	ND (35)	ND (40)	ND (37)	ND (42)	ND (43)
2,4,6-Trichlorophenol	ug/kg	-	ND (30)	ND (28)	ND (27)	ND (27)	ND (29)	ND (32)	ND (30)	ND (34)	ND (35)
Acenaphthene	ug/kg	10000	176	ND (8.8)	ND (8.5)	ND (8.4)	ND (8.9)	ND (9.9)	156	18.4 J	ND (10)
Acenaphthylene	ug/kg	100000	31.7 J	ND (9.7)	ND (9.4)	ND (9.3)	ND (9.8)	ND (11)	53.7	ND (12)	ND (11)
Acetophenone	ug/kg	-	ND (5.6)	ND (5.3)	ND (5.1)	ND (5.1)	ND (5.4)	ND (6.0)	ND (5.8)	ND (6.4)	ND (6.5)
Anthracene	ug/kg	100000	404	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	452	44.2	ND (12)
Altrazine	ug/kg	-	ND (6.2)	ND (5.9)	ND (5.8)	ND (5.7)	ND (6.0)	ND (6.7)	ND (6.3)	ND (7.1)	ND (6.8)
Benzo(a)anthracene	ug/kg	1000	1140	48.1	31.7	ND (9.5)	38.6	18.6 J	1070	107	29.7 J
Benzo(a)pyrene	ug/kg	1000	1030	45.3	34.3 J	ND (8.9)	38.6	14.1 J	96.3	84.3	23.3 J
Benzo(b)fluoranthene	ug/kg	1000	1140	46.9	23.3 J	ND (9.7)	39.2	16.6 J	839	79.4	21.2 J
Benzo(g,h,i)perylene	ug/kg	100000	705	36.9	17.9 J	ND (11)	31.5	ND (13)	618	62.3	16.9 J
Benzo(k)fluoranthene	ug/kg	3900	779	45.8	21.5 J	ND (11)	29.0 J	15.1 J	742	72.4	17.7 J
4-Bromophenyl phenyl ether	ug/kg	-	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)
Butyl benzyl phthalate	ug/kg	-	ND (18)	ND (17)	ND (17)	ND (17)	ND (18)	ND (20)	ND (19)	ND (21)	ND (21)
1,1-Biphenyl	ug/kg	-	ND (3.7)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.5)	ND (4.0)	ND (3.7)	ND (4.2)	ND (4.3)
Benzaldehyde	ug/kg	-	ND (7.3)	ND (6.8)	ND (6.7)	ND (6.7)	ND (7.0)	ND (7.8)	ND (7.4)	ND (8.3)	ND (8.3)
2-Chloronaphthalene	ug/kg	-	ND (9.8)	ND (9.4)	ND (9.1)	ND (9.0)	ND (9.5)	ND (11)	ND (9.9)	ND (11)	ND (12)
4-Chloroaniline	ug/kg	-	ND (10)	ND (9.7)	ND (9.4)	ND (9.3)	ND (9.8)	ND (11)	ND (10)	ND (12)	ND (11)
Carbazole	ug/kg	-	142	ND (14)	ND (14)	ND (13)	ND (14)	ND (16)	151	20.3 J	ND (16)
Caprolactam	ug/kg	-	ND (9.9)	ND (9.5)	ND (9.2)	ND (9.1)	ND (9.6)	ND (11)	ND (10)	ND (11)	ND (12)
Chrysene	ug/kg	3900	1440	64.3	30.7	ND (9.8)	44.2	21.5 J	1050	104	27.5 J
bis(2-Chloroethoxy)methane	ug/kg	-	ND (13)	ND (12)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (15)	ND (14)
bis(2-Chloroethyl)ether	ug/kg	-	ND (9.5)	ND (9.1)	ND (8.8)	ND (8.7)	ND (9.2)	ND (10)	ND (9.7)	ND (11)	ND (11)
bis(2-Chloroisopropyl)ether	ug/kg	-	ND (9.4)	ND (9.0)	ND (8.7)	ND (8.6)	ND (9.1)	ND (10)	ND (9.5)	ND (11)	ND (10)
4-Chlorophenyl phenyl ether	ug/kg	-	ND (9.5)	ND (9.1)	ND (8.8)	ND (8.7)	ND (9.2)	ND (10)	ND (9.7)	ND (11)	ND (11)
2,4-Dinitrotoluene	ug/kg	-	ND (14)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (14)	ND (16)	ND (16)
2,6-Dinitrotoluene	ug/kg	-	ND (12)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (14)	ND (14)
3,3'-Dichlorobenzidine	ug/kg	-	ND (8.0)	ND (7.7)	ND (7.4)	ND (7.4)	ND (7.8)	ND (8.7)	ND (8.1)	ND (9.2)	ND (8.8)
Dibenz(a,h)anthracene	ug/kg	330	329	16.2 J	ND (10)	ND (9.9)	13.3 J	ND (12)	302	23.0 J	ND (12)
Dibenzofuran	ug/kg	59000	74.2	ND (9.0)	ND (8.7)	ND (8.6)	ND (9.1)	ND (10)	63.1 J	ND (11)	ND (10)
Di-n-butyl phthalate	ug/kg	-	ND (7.0)	ND (6.7)	34.4 J	ND (6.4)	ND (6.8)	ND (7.6)	ND (7.1)	ND (8.0)	ND (7.7)
Di-n-octyl phthalate	ug/kg	-	ND (15)	ND (15)	ND (14)	ND (14)	ND (15)	ND (17)	ND (16)	ND (18)	ND (17)
Diethyl phthalate	ug/kg	-	ND (11)	ND (10)	ND (10)	ND (9.9)	ND (10)	ND (12)	ND (11)	ND (12)	ND (13)
Dimethyl phthalate	ug/kg	-	ND (11)	ND (10)	ND (10)	ND (9.9)	ND (10)	ND (12)	ND (11)	ND (13)	ND (12)
bis(2-Ethylhexyl)phthalate	ug/kg	-	35.1 J	88	59	ND (26)	ND (27)	ND (30)	ND (28)	ND (32)	ND (31)
Fluoranthene	ug/kg	100000	3030	121	70.9	ND (13)	75.4	50.1	2330	240	61.2
Fluorene	ug/kg	100000	156	ND (9.9)	ND (9.6)	ND (9.5)	ND (10)	ND (11)	170	17.7 J	ND (11)
Hexachlorobenzene	ug/kg	1200	ND (10)	ND (9.8)	ND (9.5)	ND (9.5)	ND (10)	ND (11)	ND (10)	ND (12)	ND (11)
Hexachlorobutadiene	ug/kg	-	ND (8.8)	ND (8.4)	ND (8.1)	ND (8.1)	ND (8.5)	ND (9.5)	ND (8.9)	ND (10)	ND (9.7)
Hexachlorocyclopentadiene	ug/kg	-	ND (32)	ND (31)	ND (30)	ND (30)	ND (31)	ND (35)	ND (33)	ND (37)	ND (35)
Hexachloroethane	ug/kg	-	ND (8.8)	ND (8.4)	ND (8.1)	ND (8.1)	ND (8.5)	ND (9.5)	ND (8.9)	ND (10)	ND (9.7)
Indeno(1,2,3-cd)pyrene	ug/kg	500	678	34.2	16.3 J	ND (10)	25.3 J	ND (12)	572	56.4	ND (12)
Isophorone	ug/kg	-	ND (8.5)	ND (8.1)	ND (7.9)	ND (7.8)	ND (8.2)	ND (9.2)	ND (8.6)	ND (9.7)	ND (9.3)
2-Methylnaphthalene	ug/kg	-	30.3 J	ND (17)	ND (16)	ND (16)	ND (17)	ND (19)	33.4 J	ND (20)	ND (19)
2-Nitroaniline	ug/kg	-	ND (14)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (14)	ND (16)	ND (15)
3-Nitroaniline	ug/kg	-	ND (13)	ND (12)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (14)	ND (15)
4-Nitroaniline	ug/kg	-	ND (12)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (13)	ND (14)	ND (14)
Naphthalene	ug/kg	100000	19.6 J	ND (8.2)	ND (8.0)	ND (7.9)	ND (8.3)	ND (9.3)	34.3	ND (9.9)	ND (9.5)
Nitrobenzene	ug/kg	15000	ND (9.1)	ND (7.7)	ND (8.4)	ND (8.4)	ND (8.8)	ND (9.9)	ND (9.3)	ND (10)	ND (10)
N-Nitroso-di-n-propylamine	ug/kg	-	ND (7.7)	ND (7.4)	ND (7.1)	ND (7.1)	ND (7.5)	ND (8.3)	ND (7.8)	ND (8.8)	ND (8.5)
N-Nitrosodiphenylamine	ug/kg	-	ND (19)	ND (18)	ND (17)	ND (17)	ND (18)	ND (20)	ND (19)	ND (22)	ND (21)
Phenanthrene	ug/kg	10000	2500	106	56.7	ND (11)	58.2	17.0	182	25.3 J	30.3 J
Pyrene	ug/kg	10000	2450	106	56.8	ND (11)	64.9	38.7	1930	212	52.2
1,2,4,5-Tetrachlorobenzene	ug/kg	-	ND (9.7)	ND (9.3)	ND (9.0)	ND (8.9)	ND (9.4)	ND (10)	ND (9.8)	ND (11)	ND (11)

**Notes**

All results given in micrograms per kilogram (ug/kg)  
Samples analyzed for SVOCs using EPA Method 8270.  
Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = Uses indicates the presence of a compound less than the qualitative reporting detection limit (RDL) but greater than the quantitative reporting detection limit (MP1). Therefore, the result is



Client Sample ID:	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 1206)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(7(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:		JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:		8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Semi-volatiles (SW846 8270D)</b>											
2-Chlorophenol	ug/kg	ND (35)	ND (43)	ND (31)	ND (32)	ND (32)	ND (33)	ND (32)	ND (37)	ND (33)	ND (36)
4-Chloro-3-methyl phenol	ug/kg	-	ND (55)	ND (43)	ND (31)	ND (32)	ND (33)	ND (32)	ND (37)	ND (32)	ND (35)
2,4-Dichlorophenol	ug/kg	ND (56)	ND (69)	ND (50)	ND (51)	ND (50)	ND (53)	ND (51)	ND (60)	ND (52)	ND (57)
2,4-Dimethylphenol	ug/kg	-	ND (59)	ND (72)	ND (52)	ND (54)	ND (52)	ND (55)	ND (53)	ND (62)	ND (60)
2,4-Dinitrophenol	ug/kg	-	ND (43)	ND (62)	ND (38)	ND (39)	ND (38)	ND (40)	ND (39)	ND (45)	ND (43)
4,6-Dinitro-o-cresol	ug/kg	-	ND (43)	ND (52)	ND (38)	ND (39)	ND (38)	ND (40)	ND (39)	ND (45)	ND (43)
2-Methylphenol	ug/kg	100000	ND (40)	ND (49)	ND (35)	ND (36)	ND (36)	ND (38)	ND (36)	ND (42)	ND (40)
3,4-Methylphenol	ug/kg	-	ND (44)	ND (55)	ND (39)	ND (41)	ND (40)	ND (42)	ND (40)	ND (47)	ND (45)
2-Nitrophenol	ug/kg	-	ND (37)	ND (46)	ND (33)	ND (34)	ND (33)	ND (35)	ND (34)	ND (39)	ND (38)
4-Nitrophenol	ug/kg	-	ND (59)	ND (73)	ND (52)	ND (54)	ND (53)	ND (56)	ND (54)	ND (63)	ND (60)
Pentachlorophenol	ug/kg	6700	ND (60)	ND (73)	ND (53)	ND (55)	ND (53)	ND (56)	ND (54)	ND (63)	ND (61)
Phenol	ug/kg	100000	ND (37)	ND (45)	ND (33)	ND (34)	ND (33)	ND (35)	ND (33)	ND (39)	ND (37)
2,3,4,6-Tetrachlorophenol	ug/kg	-	ND (36)	ND (44)	ND (32)	ND (33)	ND (32)	ND (34)	ND (33)	ND (38)	ND (36)
2,4,5-Trichlorophenol	ug/kg	-	ND (40)	ND (50)	ND (36)	ND (37)	ND (36)	ND (38)	ND (37)	ND (43)	ND (41)
2,4,6-Trichlorophenol	ug/kg	-	ND (33)	ND (40)	ND (29)	ND (30)	ND (29)	ND (31)	ND (30)	ND (35)	ND (33)
Acenaphthene	ug/kg	100000	2810	ND (12)	ND (9.0)	16.3 J	ND (9.0)	ND (9.5)	576	ND (11)	394
Acenaphthylene	ug/kg	100000	17.1 J	ND (14)	ND (9.9)	20.1 J	ND (10)	ND (11)	300	ND (12)	65.8
Acetophenone	ug/kg	-	ND (6.1)	ND (7.6)	ND (5.5)	ND (5.6)	ND (5.5)	ND (5.8)	ND (5.6)	ND (6.5)	ND (5.7)
Anthracene	ug/kg	100000	626	24.9 J	ND (11)	49.2	15.3 J	16.9 J	1320	ND (13)	802
Atrazine	ug/kg	-	ND (6.9)	ND (8.5)	ND (6.1)	ND (6.3)	ND (6.1)	ND (6.5)	ND (6.3)	ND (7.3)	ND (6.4)
Benzo(a)anthracene	ug/kg	1000	208	89.9	21.1 J	32.7	30.9 J	2060	ND (12)	1190	236.6 J
Benzo(b)fluoranthene	ug/kg	1000	104	71.6	14.6 J	136	22.4 J	1550	ND (11)	850	14.1 J
Benzo(k)fluoranthene	ug/kg	1000	100	63.1	17.5 J	160	22.4 J	19.1 J	2100	ND (12)	977
Benzo(g,h,i)perylene	ug/kg	100000	61.5	42.6 J	ND (12)	105	13.6 J	ND (12)	867	ND (14)	457
Benzo(k)fluoranthene	ug/kg	3900	93.3	57.7	ND (12)	75	ND (12)	ND (12)	542	ND (14)	453
4-Bromophenyl phenyl ether	ug/kg	-	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (12)	ND (12)	ND (13)	ND (12)
Butyl benzyl phthalate	ug/kg	-	ND (20)	ND (25)	ND (18)	89.6	ND (18)	ND (19)	ND (18)	ND (21)	ND (19)
1,1-Biphenyl	ug/kg	-	414	ND (15)	ND (3.6)	102	ND (3.6)	ND (9.8)	402	ND (4.3)	53.8 J
Benzaldehyde	ug/kg	-	ND (8.0)	ND (9.9)	ND (7.1)	ND (7.3)	ND (7.3)	ND (7.6)	ND (7.3)	ND (8.5)	ND (7.5)
2-Chloronaphthalene	ug/kg	-	ND (11)	ND (13)	ND (9.6)	ND (9.9)	ND (9.7)	ND (10)	ND (9.9)	ND (11)	ND (10)
4-Chloroaniline	ug/kg	-	ND (11)	ND (14)	ND (9.9)	ND (10)	ND (10)	ND (11)	ND (10)	ND (12)	ND (10)
Carbazole	ug/kg	-	831	ND (20)	ND (14)	23.8 J	ND (14)	ND (15)	706	ND (17)	424
Caprolactam	ug/kg	-	ND (11)	ND (14)	ND (9.8)	ND (10)	ND (9.8)	ND (10)	ND (10)	ND (12)	ND (10)
Chrysene	ug/kg	3900	208	90.3	17.5 J	173	28.7 J	24.7 J	2260	ND (13)	1110
bis(2-Chloroethoxy)methane	ug/kg	-	ND (14)	ND (17)	ND (13)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (13)
bis(2-Chloroethyl)ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.4)	ND (9.9)	ND (9.6)	ND (11)	ND (9.8)
bis(2-Chloropropoxy)ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.4)	ND (9.9)	ND (9.6)	ND (11)	ND (9.8)
4-Chlorophenyl phenyl ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.4)	ND (9.9)	ND (9.6)	ND (11)	ND (9.8)
2,4-Dinitrotoluene	ug/kg	-	ND (15)	ND (19)	ND (14)	ND (14)	ND (14)	ND (14)	ND (14)	ND (16)	ND (14)
2,6-Dinitrotoluene	ug/kg	-	ND (13)	ND (16)	ND (12)	ND (12)	ND (12)	ND (13)	ND (12)	ND (14)	ND (12)
3,3'-Dichlorobenzidine	ug/kg	-	ND (8.9)	ND (11)	ND (7.9)	ND (8.1)	ND (7.9)	ND (8.4)	ND (8.1)	ND (9.4)	ND (8.3)
Dibenz(a,h)anthracene	ug/kg	330	28.7 J	21.7 J	ND (11)	28.9 J	ND (11)	ND (11)	290	ND (13)	140
Dibenzofuran	ug/kg	59000	1840	ND (13)	ND (9.2)	ND (9.5)	ND (9.3)	ND (9.8)	645	ND (11)	322
Di-n-butyl phthalate	ug/kg	-	ND (7.7)	ND (9.5)	ND (6.9)	48.8 J	ND (6.9)	ND (7.3)	35.8 J	ND (8.2)	ND (7.2)
Di-n-octyl phthalate	ug/kg	-	ND (17)	ND (21)	ND (15)	ND (16)	ND (15)	ND (16)	ND (15)	ND (18)	ND (16)
Diethyl phthalate	ug/kg	-	ND (12)	ND (15)	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (13)	ND (11)
Dimethyl phthalate	ug/kg	-	47.0 J	ND (15)	ND (11)	ND (11)	ND (11)	ND (12)	ND (11)	ND (13)	ND (11)
bis(2-Ethylhexyl)phthalate	ug/kg	-	ND (31)	ND (38)	ND (27)	213	52.3 J	36.4 J	ND (28)	ND (33)	ND (29)
Fluoranthene	ug/kg	100000	1440	184	36.7	303	67.8	55.4	5920	ND (16)	2970
Fluorene	ug/kg	100000	2390	ND (14)	ND (10)	16.5 J	ND (10)	ND (11)	671	ND (12)	434
Hexachlorobenzene	ug/kg	1200	ND (11)	ND (14)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (12)	ND (11)
Hexachlorobutadiene	ug/kg	-	ND (9.7)	ND (12)	ND (8.6)	ND (8.9)	ND (8.7)	ND (9.1)	ND (8.8)	ND (10)	ND (9.0)
Hexachlorocyclopentadiene	ug/kg	-	ND (36)	ND (44)	ND (32)	ND (33)	ND (32)	ND (34)	ND (32)	ND (38)	ND (33)
Hexachloroethane	ug/kg	-	ND (9.7)	ND (12)	ND (8.6)	ND (8.9)	ND (8.7)	ND (9.1)	ND (8.8)	ND (10)	ND (9.0)
Indeno(1,2,3-cd)pyrene	ug/kg	500	54.1	37.6 J	ND (11)	83.2	11.8 J	ND (11)	820	ND (13)	434
Isophorone	ug/kg	-	ND (9.4)	ND (12)	ND (8.4)	ND (8.6)	ND (8.4)	ND (8.8)	ND (8.6)	ND (10)	ND (8.7)
2-Methylnaphthalene	ug/kg	-	2580	ND (24)	ND (17)	ND (18)	ND (17)	ND (18)	414	ND (21)	204
2-Nitroaniline	ug/kg	-	ND (15)	ND (19)	ND (14)	ND (14)	ND (14)	ND (14)	ND (14)	ND (16)	ND (14)
3-Nitroaniline	ug/kg	-	ND (14)	ND (17)	ND (12)	ND (13)	ND (12)	ND (13)	ND (13)	ND (15)	ND (13)
4-Nitroaniline	ug/kg	-	ND (14)	ND (17)	ND (12)	ND (12)	ND (12)	ND (13)	ND (12)	ND (14)	ND (13)
Naphthalene	ug/kg	100000	1680	ND (12)	ND (8.5)	ND (8.7)	ND (8.5)	ND (9.0)	874	ND (10)	696
Nitrobenzene	ug/kg	15000	ND (10)	ND (12)	ND (9.0)	ND (9.2)	ND (9.0)	ND (9.5)	ND (9.2)	ND (11)	ND (9.4)
N-Nitroso-di-n-propylamine	ug/kg	-	ND (8.5)	ND (10)	ND (7.6)	ND (7.8)	ND (7.6)	ND (8.0)	ND (7.8)	ND (9.0)	ND (8.6)
N-Nitrosodiphenylamine	ug/kg	-	ND (21)	ND (26)	ND (19)	ND (19)	ND (20)	ND (19)	ND (22)	ND (19)	ND (21)
Phenanthrene	ug/kg	100000	113	51.0	38.5 J	321	62.4	53.7	1150	ND (17)	3550
Pyrene	ug/kg	100000	927	158	38.6 J	321	62.4	50.3	4710	ND (14)	2490
1,2,4,5-Tetrachlorobenzene	ug/kg	-	ND (11)	ND (13)	ND (9.5)	ND (9.8)	ND (9.6)	ND (10)	ND (9.8)	ND (11)	ND (10)

**Notes**

All results given in micrograms per kilogram (ug/kg)  
 Samples analyzed for SVOCs using EPA Method 8270.  
 Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSC0 - Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative reporting detection limit (RDL) but greater than the quantitative method detection limit (MPL). Therefore, the result is



**Table 2**  
**Semi Volatile Organic Compounds in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:	NY SCO - Unrestricted Use (6 NYCRR 375-6.12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:		JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:		8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC/MS Semi-volatiles (SW846 8270D)</b>											
2-Chlorophenol	ug/kg	ND (32)	ND (31)	ND (30)	ND (29)	ND (31)	ND (34)	ND (32)	ND (36)	ND (36)	ND (37)
4-Chloro-3-methyl phenol	ug/kg	-	ND (30)	ND (30)	ND (29)	ND (31)	ND (34)	ND (32)	ND (36)	ND (35)	ND (37)
2,4-Dichlorophenol	ug/kg	ND (51)	ND (49)	ND (47)	ND (47)	ND (49)	ND (55)	ND (52)	ND (58)	ND (56)	ND (60)
2,4-Dimethylphenol	ug/kg	-	ND (51)	ND (49)	ND (49)	ND (51)	ND (57)	ND (54)	ND (61)	ND (58)	ND (62)
2,4-Dinitrophenol	ug/kg	ND (39)	ND (37)	ND (36)	ND (35)	ND (37)	ND (42)	ND (39)	ND (44)	ND (42)	ND (45)
4,6-Dinitro-o-cresol	ug/kg	ND (39)	ND (37)	ND (36)	ND (35)	ND (37)	ND (42)	ND (39)	ND (44)	ND (42)	ND (45)
2-Methylphenol	ug/kg	500000	ND (36)	ND (34)	ND (33)	ND (35)	ND (39)	ND (37)	ND (41)	ND (40)	ND (42)
3,4-Methylphenol	ug/kg	ND (40)	ND (38)	ND (37)	ND (37)	ND (39)	ND (43)	ND (41)	ND (46)	ND (44)	ND (47)
2-Nitrophenol	ug/kg	ND (33)	ND (32)	ND (31)	ND (31)	ND (32)	ND (36)	ND (34)	ND (38)	ND (37)	ND (39)
4-Nitrophenol	ug/kg	ND (53)	ND (51)	ND (49)	ND (48)	ND (52)	ND (58)	ND (54)	ND (61)	ND (59)	ND (63)
Pentachlorophenol	ug/kg	6700	ND (54)	ND (52)	ND (50)	ND (50)	ND (52)	ND (58)	ND (62)	ND (59)	ND (63)
Phenol	ug/kg	500000	ND (33)	ND (32)	ND (31)	ND (30)	ND (32)	ND (36)	ND (34)	ND (38)	ND (39)
2,3,4,6-Tetrachlorophenol	ug/kg	ND (33)	ND (31)	ND (30)	ND (30)	ND (31)	ND (35)	ND (33)	ND (37)	ND (36)	ND (38)
2,4,5-Trichlorophenol	ug/kg	ND (37)	ND (35)	ND (34)	ND (34)	ND (35)	ND (40)	ND (37)	ND (42)	ND (40)	ND (43)
2,4,6-Trichlorophenol	ug/kg	ND (30)	ND (28)	ND (27)	ND (27)	ND (29)	ND (32)	ND (30)	ND (34)	ND (33)	ND (35)
Acenaphthene	ug/kg	500000	176	ND (8.8)	ND (8.5)	ND (8.4)	ND (9.9)	156	18.4 J	ND (10)	26.8 J
Acenaphthylene	ug/kg	500000	31.7 J	ND (9.7)	ND (9.3)	ND (9.3)	ND (11)	53.7	ND (12)	ND (11)	13.7
Acetophenone	ug/kg	ND (5.6)	ND (5.3)	ND (5.1)	ND (5.1)	ND (5.4)	ND (6.0)	ND (5.6)	ND (6.4)	ND (6.1)	ND (6.5)
Anthracene	ug/kg	500000	404	ND (11)	ND (10)	ND (11)	ND (12)	45.2	44.2	ND (12)	63.4
Atrazine	ug/kg	ND (6.2)	ND (5.9)	ND (5.8)	ND (5.8)	ND (6.0)	ND (6.7)	ND (6.3)	ND (7.1)	ND (6.8)	ND (7.3)
Benzo(a)anthracene	ug/kg	5600	1140	49.1	31.7	ND (9.5)	38.6	18.6 J	1070	107	29.7 J
Benzo(a)pyrene	ug/kg	1000	1630	45.3	23.9 J	ND (9.5)	38.6	14.1 J	365	94.7	23.3 J
Benzo(b)fluoranthene	ug/kg	5600	1140	46.9	23.3 J	ND (9.7)	39.2	16.6 J	839	79.4	21.2 J
Benzo(g,h,i)perylene	ug/kg	500000	705	36.9	17.9 J	ND (11)	31.5	ND (13)	618	62.3	16.9 J
Benzo(k)fluoranthene	ug/kg	56000	779	45.8	21.5 J	ND (11)	29.0 J	15.1 J	742	72.4	17.7 J
4-Bromophenyl phenyl ether	ug/kg	-	ND (11)	ND (11)	ND (11)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)
Butyl phenyl phthalate	ug/kg	-	ND (18)	ND (17)	ND (17)	ND (17)	ND (19)	ND (21)	ND (21)	ND (21)	ND (21)
1,1'-Biphenyl	ug/kg	-	ND (3.7)	ND (3.5)	ND (3.4)	ND (3.4)	ND (3.5)	ND (4.0)	ND (3.7)	ND (4.2)	ND (4.0)
Benzaldehyde	ug/kg	-	ND (7.3)	ND (6.9)	ND (6.7)	ND (7.0)	ND (7.8)	ND (7.4)	ND (8.3)	ND (8.0)	ND (8.5)
2-Chloronaphthalene	ug/kg	-	ND (9.8)	ND (9.4)	ND (9.1)	ND (9.0)	ND (9.5)	ND (11)	ND (9.9)	ND (11)	ND (12)
4-Chloroaniline	ug/kg	-	ND (10)	ND (9.7)	ND (9.4)	ND (9.3)	ND (9.8)	ND (11)	ND (10)	ND (12)	ND (12)
Carbazole	ug/kg	-	142	ND (14)	ND (14)	ND (13)	ND (14)	ND (16)	151	20.3 J	23.9 J
Caprolactam	ug/kg	-	ND (9.9)	ND (9.5)	ND (9.2)	ND (9.1)	ND (9.6)	ND (11)	ND (10)	ND (11)	ND (12)
Chrysene	ug/kg	56000	1440	64.3	30.7	ND (9.8)	44.2	21.5 J	1050	104	27.5 J
bis(2-Chloroethoxy)methane	ug/kg	-	ND (13)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (15)	ND (14)	ND (15)
bis(2-Chloroethyl)ether	ug/kg	-	ND (9.5)	ND (9.1)	ND (8.9)	ND (8.7)	ND (9.2)	ND (10)	ND (9.7)	ND (11)	ND (11)
bis(2-Chloropropyl)ether	ug/kg	-	ND (9.4)	ND (9.0)	ND (8.7)	ND (8.6)	ND (9.1)	ND (10)	ND (9.5)	ND (11)	ND (11)
4-Chlorophenyl phenyl ether	ug/kg	-	ND (9.5)	ND (9.1)	ND (8.8)	ND (8.7)	ND (9.2)	ND (10)	ND (9.7)	ND (11)	ND (11)
2,4-Dinitrotoluene	ug/kg	-	ND (14)	ND (13)	ND (13)	ND (13)	ND (15)	ND (14)	ND (16)	ND (15)	ND (16)
2,6-Dinitrotoluene	ug/kg	-	ND (12)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (14)	ND (13)
3,3'-Dichlorobenzidine	ug/kg	-	ND (8.0)	ND (7.7)	ND (7.4)	ND (7.4)	ND (7.8)	ND (8.7)	ND (8.1)	ND (8.2)	ND (8.4)
Dibenz(a,h)anthracene	ug/kg	560	329	16.2 J	ND (10)	ND (9.9)	11.3 J	ND (12)	302	23.9 J	37.3
Dibenzofuran	ug/kg	350000	74.2	ND (9.0)	ND (8.7)	ND (8.6)	ND (9.1)	ND (10)	63.1 J	ND (11)	ND (11)
Di-n-butyl phthalate	ug/kg	ND (7.0)	ND (6.7)	ND (6.7)	ND (6.4)	ND (6.8)	ND (7.6)	ND (7.1)	ND (8.0)	ND (7.7)	ND (8.2)
Di-n-octyl phthalate	ug/kg	ND (15)	ND (15)	ND (14)	ND (14)	ND (15)	ND (17)	ND (16)	ND (18)	ND (17)	ND (18)
Dimethyl phthalate	ug/kg	ND (11)	ND (10)	ND (10)	ND (9.9)	ND (10)	ND (12)	ND (11)	ND (12)	ND (12)	ND (13)
Dimethyl phthalate	ug/kg	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (11)	ND (13)	ND (12)	ND (13)
bis(2-Ethylhexyl)phthalate	ug/kg	-	35.1 J	88	59	ND (26)	ND (27)	ND (30)	ND (28)	ND (32)	ND (31)
Fluoranthene	ug/kg	500000	3030	131	70.9	ND (13)	75.4	50.1	2330	240	61.2
Fluorene	ug/kg	500000	156	ND (9.9)	ND (9.6)	ND (9.5)	ND (10)	ND (11)	170	17.7 J	ND (11)
Hexachlorobenzene	ug/kg	6000	ND (10)	ND (9.5)	ND (9.5)	ND (9.5)	ND (10)	ND (11)	ND (10)	ND (12)	ND (12)
Hexachlorobutadiene	ug/kg	-	ND (8.9)	ND (8.4)	ND (8.1)	ND (8.1)	ND (8.5)	ND (9.5)	ND (10)	ND (10)	ND (11)
Hexachlorocyclopentadiene	ug/kg	-	ND (32)	ND (31)	ND (30)	ND (30)	ND (31)	ND (35)	ND (33)	ND (37)	ND (35)
Hexachloroethane	ug/kg	-	ND (8.8)	ND (8.4)	ND (8.0)	ND (8.1)	ND (8.5)	ND (9.5)	ND (8.9)	ND (10)	ND (10)
Indeno(1,2,3-cd)pyrene	ug/kg	5600	678	34.2	16.3 J	ND (10)	25.3 J	ND (12)	572	56.4	ND (12)
Isophorone	ug/kg	ND (8.5)	ND (8.1)	ND (7.9)	ND (7.8)	ND (8.2)	ND (8.2)	ND (8.6)	ND (9.7)	ND (9.3)	ND (10)
2-Methylnaphthalene	ug/kg	-	ND (17)	ND (16)	ND (16)	ND (17)	ND (19)	354 J	ND (20)	ND (19)	ND (21)
2-Nitroaniline	ug/kg	ND (14)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (14)	ND (16)	ND (15)	ND (16)
3-Nitroaniline	ug/kg	ND (13)	ND (12)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (14)	ND (14)	ND (15)
4-Nitroaniline	ug/kg	ND (12)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (13)	ND (14)	ND (14)	ND (14)
Naphthalene	ug/kg	500000	18.6 J	ND (8.2)	ND (8.0)	ND (7.9)	ND (8.3)	ND (9.3)	34.5	ND (9.9)	ND (9.5)
Nitrobenzene	ug/kg	59000	ND (9.1)	ND (8.7)	ND (8.4)	ND (8.4)	ND (8.8)	ND (9.9)	ND (9.3)	ND (10)	ND (11)
N-Nitroso-d-n-propylamine	ug/kg	ND (7.7)	ND (7.4)	ND (7.1)	ND (7.1)	ND (7.1)	ND (7.5)	ND (8.3)	ND (7.8)	ND (8.8)	ND (9.1)
N-Nitrosodiphenylamine	ug/kg	ND (19)	ND (18)	ND (17)	ND (17)	ND (17)	ND (18)	ND (20)	ND (19)	ND (22)	ND (22)
Phenanthrene	ug/kg	500000	2500	68.2	35.7	ND (13)	38.2	22.5 J	1770	188	39.3
Pyrene	ug/kg	500000	2450	108	56.8	ND (11)	64.9	38.7	1938	212	52.2
1,2,4,5-tetrachlorobenzene	ug/kg	ND (9.7)	ND (9.3)	ND (9.0)	ND (8.9)	ND (9.4)	ND (10)	ND (9.8)	ND (11)	ND (11)	ND (11)

All results given in micrograms per kilogram (ug/kg)  
 Samples analyzed for SVOCs using EPA Method 8270.  
 Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected  
 NS = No Standard  
 J = Value indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, this result is



Client Sample ID:	NY SCO - Unrestricted Use (6 NYCRR 375-6.12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12) ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:		JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:		8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GCMS Semi-volatiles (SW846 8270D)</b>											
2-Chlorophenol	ug/kg	ND (35)	ND (43)	ND (31)	ND (32)	ND (32)	ND (33)	ND (32)	ND (37)	ND (33)	ND (36)
4-Chloro-3-methyl phenol	ug/kg	-	ND (35)	ND (43)	ND (31)	ND (32)	ND (31)	ND (33)	ND (32)	ND (37)	ND (35)
2,4-Dichlorophenol	ug/kg	-	ND (56)	ND (69)	ND (50)	ND (51)	ND (50)	ND (53)	ND (51)	ND (60)	ND (57)
2,4-Dimethylphenol	ug/kg	-	ND (59)	ND (72)	ND (52)	ND (54)	ND (52)	ND (55)	ND (53)	ND (62)	ND (60)
2,4-Dinitrophenol	ug/kg	-	ND (43)	ND (52)	ND (36)	ND (39)	ND (38)	ND (40)	ND (39)	ND (45)	ND (43)
4,6-Dinitro-o-cresol	ug/kg	-	ND (43)	ND (52)	ND (36)	ND (39)	ND (38)	ND (40)	ND (39)	ND (45)	ND (43)
2-Methylphenol	ug/kg	500000	ND (40)	ND (49)	ND (35)	ND (36)	ND (36)	ND (38)	ND (36)	ND (42)	ND (40)
3,4-Methylphenol	ug/kg	-	ND (44)	ND (55)	ND (39)	ND (41)	ND (40)	ND (42)	ND (40)	ND (47)	ND (45)
2-Nitrophenol	ug/kg	-	ND (37)	ND (46)	ND (33)	ND (34)	ND (33)	ND (35)	ND (34)	ND (39)	ND (38)
4-Nitrophenol	ug/kg	-	ND (59)	ND (73)	ND (52)	ND (54)	ND (53)	ND (56)	ND (54)	ND (63)	ND (60)
2,4,6-Trinitrophenol	ug/kg	6700	ND (60)	ND (73)	ND (53)	ND (55)	ND (53)	ND (56)	ND (54)	ND (63)	ND (61)
Phenol	ug/kg	500000	ND (37)	ND (45)	ND (33)	ND (34)	ND (33)	ND (35)	ND (33)	ND (39)	ND (37)
2,3,4,6-Tetrachlorophenol	ug/kg	-	ND (36)	ND (44)	ND (32)	ND (33)	ND (32)	ND (34)	ND (33)	ND (38)	ND (36)
2,4,5-Trichlorophenol	ug/kg	-	ND (40)	ND (50)	ND (36)	ND (37)	ND (36)	ND (38)	ND (37)	ND (43)	ND (41)
2,4,6-Trichlorophenol	ug/kg	-	ND (33)	ND (40)	ND (29)	ND (30)	ND (29)	ND (31)	ND (30)	ND (35)	ND (31)
Acenaphthene	ug/kg	500000	28.10	ND (12)	ND (9.0)	16.3 J	ND (9.0)	ND (9.5)	576	ND (11)	394
Acenaphthylene	ug/kg	500000	17.1 J	ND (13)	14.5 J	23.1 J	ND (12)	13.0 J	392	ND (12)	358
Acetophenone	ug/kg	-	ND (6.1)	ND (7.6)	ND (5.5)	ND (5.6)	ND (5.5)	ND (5.8)	ND (5.6)	ND (6.5)	ND (5.7)
Anthracene	ug/kg	500000	626	24.9 J	ND (11)	49.2	15.3 J	16.9 J	1320	ND (13)	802
Atrazine	ug/kg	-	ND (6.9)	ND (8.5)	ND (6.1)	ND (6.3)	ND (6.1)	ND (6.5)	ND (6.3)	ND (7.3)	ND (6.4)
Benzo(a)anthracene	ug/kg	5600	208	89.9	21.1 J	138	32.5	30.9 J	2660	ND (12)	1190
Benzo(a)pyrene	ug/kg	1000	104	71.8	14.5 J	138	22.4 J	19.0 J	1560	ND (11)	856
Benzo(b)fluoranthene	ug/kg	5600	100	63.1	17.9 J	160	22.4 J	19.1 J	2100	ND (12)	977
Benzo(g,h,i)perylene	ug/kg	500000	61.5	42.6 J	ND (12)	105	13.6 J	ND (12)	867	ND (14)	457
Benzo(k)fluoranthene	ug/kg	56000	93.3	57.7	ND (12)	75	ND (12)	ND (12)	542	ND (14)	453
4-Bromophenyl phenyl ether	ug/kg	-	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)
Butyl benzyl phthalate	ug/kg	-	ND (20)	ND (25)	ND (18)	ND (18)	ND (18)	ND (18)	ND (18)	ND (21)	ND (19)
1,1'-Biphenyl	ug/kg	-	414	ND (5.0)	ND (3.6)	ND (3.7)	ND (3.6)	ND (3.8)	102	ND (4.3)	53.6 J
Benzaldehyde	ug/kg	-	ND (8.0)	ND (9.9)	ND (7.1)	ND (7.3)	ND (7.2)	ND (7.6)	ND (7.3)	ND (8.5)	ND (7.5)
2-Chloronaphthalene	ug/kg	-	ND (11)	ND (13)	ND (9.6)	ND (9.9)	ND (9.7)	ND (10)	ND (9.9)	ND (11)	ND (10)
4-Chloroaniline	ug/kg	-	ND (11)	ND (14)	ND (9.9)	ND (10)	ND (10)	ND (10)	ND (10)	ND (12)	ND (11)
Carbazole	ug/kg	-	831	ND (20)	ND (14)	23.8 J	ND (14)	ND (15)	705	ND (17)	424
Caprolactam	ug/kg	-	ND (11)	ND (14)	ND (9.8)	ND (10)	ND (9.8)	ND (10)	ND (10)	ND (12)	ND (10)
Chrysene	ug/kg	56000	208	90.3	17.5 J	173	28.7 J	24.7 J	2260	ND (13)	1110
bis(2-Chloroethoxy)methane	ug/kg	-	ND (14)	ND (17)	ND (13)	ND (13)	ND (13)	ND (13)	ND (13)	ND (15)	ND (13)
bis(2-Chloroethyl)ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.4)	ND (9.9)	ND (9.5)	ND (11)	ND (9.9)
bis(2-Chloroisopropyl)ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.5)	ND (9.8)	ND (9.4)	ND (11)	ND (9.7)
4-Chlorophenyl phenyl ether	ug/kg	-	ND (10)	ND (13)	ND (9.3)	ND (9.6)	ND (9.4)	ND (9.9)	ND (9.6)	ND (11)	ND (9.8)
2,4-Dinitrotoluene	ug/kg	-	ND (15)	ND (19)	ND (14)	ND (14)	ND (14)	ND (14)	ND (14)	ND (16)	ND (14)
2,6-Dinitrotoluene	ug/kg	-	ND (13)	ND (16)	ND (12)	ND (12)	ND (12)	ND (13)	ND (12)	ND (14)	ND (12)
3,3'-Dichlorobenzidine	ug/kg	-	ND (8.9)	ND (11)	ND (7.9)	ND (8.1)	ND (7.9)	ND (8.4)	ND (8.1)	ND (9.4)	ND (8.3)
Dibenz(a,h)anthracene	ug/kg	560	28.7 J	21.7 J	ND (11)	28.9 J	ND (11)	ND (11)	290	ND (13)	140
Dibenzofuran	ug/kg	350000	1840	ND (13)	ND (9.2)	ND (9.5)	ND (9.3)	ND (9.8)	645	ND (11)	322
Di-n-butyl phthalate	ug/kg	-	ND (7.7)	ND (9.5)	ND (6.9)	48.8 J	ND (6.9)	ND (7.3)	35.8 J	ND (8.2)	ND (7.2)
Di-n-octyl phthalate	ug/kg	-	ND (17)	ND (21)	ND (15)	ND (16)	ND (15)	ND (16)	ND (15)	ND (18)	ND (16)
Dimethyl phthalate	ug/kg	-	ND (12)	ND (15)	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (13)	ND (11)
Dimethyl phthalate	ug/kg	-	47.9 J	ND (13)	ND (11)	ND (11)	ND (11)	ND (11)	ND (12)	ND (13)	ND (11)
bis(2-Ethylhexyl)phthalate	ug/kg	-	ND (31)	ND (38)	ND (27)	213	52.3 J	36.4 J	ND (28)	ND (33)	ND (29)
Fluoranthene	ug/kg	500000	1440	184	36.7	303	67.8	55.4	5920	ND (16)	2970
Fluorene	ug/kg	500000	2300	ND (14)	ND (10)	16.5 J	ND (10)	ND (11)	671	ND (12)	434
Hexachlorobenzene	ug/kg	6000	ND (11)	ND (14)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (12)	ND (11)
Hexachlorobutadiene	ug/kg	-	ND (9.7)	ND (12)	ND (8.6)	ND (8.9)	ND (8.9)	ND (9.1)	ND (8.8)	ND (10)	ND (9.9)
Hexachlorocyclopentadiene	ug/kg	-	ND (36)	ND (44)	ND (32)	ND (33)	ND (32)	ND (34)	ND (32)	ND (38)	ND (33)
Hexachloroethane	ug/kg	-	ND (9.7)	ND (12)	ND (8.6)	ND (8.9)	ND (8.7)	ND (9.1)	ND (8.8)	ND (10)	ND (9.0)
Indeno(1,2,3-cd)pyrene	ug/kg	5600	54.1	37.6 J	ND (11)	83.2	11.8 J	ND (11)	820	ND (13)	434
Isophorone	ug/kg	-	ND (8.4)	ND (12)	ND (8.4)	ND (8.6)	ND (8.4)	ND (8.8)	ND (8.6)	ND (10)	ND (8.7)
2-Methylnaphthalene	ug/kg	-	2360	ND (24)	ND (17)	ND (18)	ND (17)	ND (18)	414	ND (21)	204
2-Nitroaniline	ug/kg	-	ND (15)	ND (19)	ND (14)	ND (14)	ND (14)	ND (14)	ND (14)	ND (16)	ND (14)
3-Nitroaniline	ug/kg	-	ND (14)	ND (17)	ND (12)	ND (13)	ND (12)	ND (13)	ND (13)	ND (15)	ND (13)
4-Nitroaniline	ug/kg	-	ND (14)	ND (17)	ND (12)	ND (12)	ND (12)	ND (13)	ND (12)	ND (14)	ND (13)
Naphthalene	ug/kg	500000	1680	ND (12)	ND (8.5)	ND (8.7)	ND (8.5)	ND (9.0)	874	ND (10)	696
Nitrobenzene	ug/kg	69000	ND (10)	ND (12)	ND (9.0)	ND (9.2)	ND (9.0)	ND (9.5)	ND (9.2)	ND (11)	ND (9.4)
N-Nitroso-di-n-propylamine	ug/kg	-	ND (8.5)	ND (10)	ND (7.6)	ND (7.8)	ND (7.6)	ND (8.0)	ND (7.8)	ND (9.0)	ND (7.9)
N-Nitrosodiphenylamine	ug/kg	-	ND (21)	ND (26)	ND (19)	ND (19)	ND (19)	ND (20)	ND (19)	ND (22)	ND (19)
Phenanthrene	ug/kg	500000	5190	113	30.5 J	224	69.5	53.7	7150	ND (17)	3550
Pyrene	ug/kg	500000	327	158	38.6	321	62.4	50.3	4710	ND (14)	2490
1,2,4,5-Tetrachlorobenzene	ug/kg	-	ND (11)	ND (13)	ND (9.5)	ND (9.8)	ND (9.6)	ND (10)	ND (9.8)	ND (11)	ND (10)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for SVOCs using EPA Method 8270.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

J = No Standard

J = Value indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, this result is



**Table 3**  
**PCBs / Pesticides in Groundwater**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY TOGS Class	GW-4 (ALT)	GW-5	GW-6	GW-7 (ALT)	GW-8 (ALT)
Lab Sample ID:		GA GW Standards	JB13738-1	JB13738-2	JB13738-3	JB13738-7	JB13738-8
Date Sampled:		(NYSDEC 6/2004) <sup>1</sup>	8/8/2012	8/8/2012	8/8/2012	8/10/2012	8/13/2012
Matrix:			Ground Water				

**GC Semi-volatiles (SW846 8081B)**

Aldrin	ug/l	ND	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.0097)	ND (0.011)
alpha-BHC	ug/l	0.01	ND (0.0046)	ND (0.0044)	ND (0.0045)	ND (0.0041)	ND (0.0047)
beta-BHC	ug/l	0.04	ND (0.0044)	ND (0.0042)	ND (0.0043)	ND (0.0039)	ND (0.0045)
delta-BHC	ug/l	0.04	ND (0.0072)	ND (0.0069)	ND (0.0070)	ND (0.0064)	ND (0.0073)
gamma-BHC (Lindane)	ug/l	0.05	ND (0.0048)	ND (0.0046)	ND (0.0047)	ND (0.0042)	ND (0.0049)
alpha-Chlordane	ug/l	-	ND (0.0058)	ND (0.0055)	ND (0.0056)	ND (0.0051)	ND (0.0059)
gamma-Chlordane	ug/l	-	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0024)	ND (0.0028)
Dieldrin	ug/l	0.004	ND (0.0038)	ND (0.0037)	ND (0.0037)	ND (0.0034)	ND (0.0039)
4,4'-DDD	ug/l	0.3	ND (0.0042)	ND (0.0040)	ND (0.0041)	ND (0.0037)	ND (0.0043)
4,4'-DDE	ug/l	0.2	ND (0.0034)	ND (0.0033)	ND (0.0034)	ND (0.0030)	ND (0.0035)
4,4'-DDT	ug/l	0.2	ND (0.0069)	ND (0.0066)	ND (0.0068)	ND (0.0061)	ND (0.0071)
Endrin	ug/l	ND	ND (0.0074)	ND (0.0071)	ND (0.0072)	ND (0.0066)	ND (0.0076)
Endosulfan sulfate	ug/l	-	ND (0.0075)	ND (0.0071)	ND (0.0073)	ND (0.0066)	ND (0.0077)
Endrin aldehyde	ug/l	5	ND (0.0034)	ND (0.0032)	ND (0.0033)	ND (0.0030)	ND (0.0034)
Endrin ketone	ug/l	5	ND (0.0047)	ND (0.0045)	ND (0.0046)	ND (0.0042)	ND (0.0049)
Endosulfan-I	ug/l	-	ND (0.0035)	ND (0.0034)	ND (0.0035)	ND (0.0031)	ND (0.0036)
Endosulfan-II	ug/l	-	ND (0.0032)	ND (0.0031)	ND (0.0032)	ND (0.0029)	ND (0.0033)
Heptachlor	ug/l	0.04	ND (0.0098)	ND (0.0093)	ND (0.0095)	ND (0.0086)	ND (0.010)
Heptachlor epoxide	ug/l	0.03	ND (0.0044)	ND (0.0042)	ND (0.0043)	ND (0.0039)	ND (0.0045)
Methoxychlor	ug/l	35	ND (0.0095)	ND (0.0091)	ND (0.0093)	ND (0.0084)	ND (0.0097)
Toxaphene	ug/l	0.06	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.18)

**GC Semi-volatiles (SW846 8082A)**

Aroclor 1016	ug/l	0.09	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.15)
Aroclor 1221	ug/l	0.09	ND (0.32)	ND (0.30)	ND (0.31)	ND (0.28)	ND (0.32)
Aroclor 1232	ug/l	0.09	ND (0.45)	ND (0.43)	ND (0.44)	ND (0.40)	ND (0.46)
Aroclor 1242	ug/l	0.09	ND (0.10)	ND (0.096)	ND (0.098)	ND (0.089)	ND (0.10)
Aroclor 1248	ug/l	0.09	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.17)
Aroclor 1254	ug/l	0.09	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.17)
Aroclor 1260	ug/l	0.09	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.22)	ND (0.25)
Aroclor 1268	ug/l	0.09	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.15)
Aroclor 1262	ug/l	0.09	ND (0.070)	ND (0.067)	ND (0.068)	ND (0.062)	ND (0.071)

**Notes**

All results given in micrograms per liter (ug/L)

Samples analyzed for PCBs/Pesticides using EPA Method 8081B /8082A

Results Compared to New York State Technical and Operational Series (TOGS) 1.1.1 , Ambient Water Quality Standards Class GA

**Bold/highlighted values exceeded the NYSDEC TOGS 1.1.1.**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



**Table 3  
PCBs / Pesticides in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC Semi-volatiles (SW846)</b>												
Aldrin	ug/kg	680	ND (0.36)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.34)	ND (0.39)	ND (0.36)	ND (0.42)	ND (0.40)	ND (0.43)
alpha-BHC	ug/kg	3400	ND (0.53)	ND (0.51)	ND (0.50)	ND (0.48)	ND (0.51)	ND (0.58)	ND (0.54)	ND (0.63)	ND (0.61)	ND (0.64)
beta-BHC	ug/kg	3000	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.45)	ND (0.47)	ND (0.54)	ND (0.51)	ND (0.59)	ND (0.57)	ND (0.60)
delta-BHC	ug/kg	500000	ND (0.42)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.39)	ND (0.45)	ND (0.42)	ND (0.49)	ND (0.47)	ND (0.50)
gamma-BHC (Lindane)	ug/kg	9200	ND (0.32)	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.31)	ND (0.35)	ND (0.33)	ND (0.38)	ND (0.37)	ND (0.39)
alpha-Chlordane	ug/kg	24000	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.55)	ND (0.53)	ND (0.56)
gamma-Chlordane	ug/kg	-	ND (0.36)	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.35)	ND (0.39)	ND (0.37)	ND (0.43)	ND (0.41)	ND (0.44)
Dieldrin	ug/kg	1400	ND (0.55)	ND (0.53)	ND (0.52)	ND (0.50)	ND (0.52)	ND (0.60)	ND (0.56)	ND (0.65)	ND (0.63)	ND (0.66)
4,4'-DDD	ug/kg	92000	ND (0.36)	ND (0.35)	6.2	ND (0.33)	ND (0.35)	ND (0.40)	2.5 <sup>a</sup>	ND (0.43)	ND (0.42)	ND (0.44)
4,4'-DDE	ug/kg	62000	ND (0.42)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.40)	ND (0.46)	ND (0.43)	ND (0.49)	ND (0.48)	ND (0.51)
4,4'-DDT	ug/kg	47000	9.7	ND (0.50)	ND (0.49)	ND (0.47)	ND (0.50)	ND (0.57)	15.8	1.2 <sup>b</sup>	1.9 <sup>b</sup>	2.3 <sup>b</sup>
Endrin	ug/kg	89000	ND (0.36)	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.35)	ND (0.39)	ND (0.37)	ND (0.43)	ND (0.41)	ND (0.44)
Endosulfan sulfate	ug/kg	200000	ND (0.64)	ND (0.62)	ND (0.61)	ND (0.59)	ND (0.61)	ND (0.70)	ND (0.66)	ND (0.76)	ND (0.73)	ND (0.78)
Endrin aldehyde	ug/kg	-	ND (0.67)	ND (0.65)	ND (0.64)	ND (0.61)	ND (0.64)	ND (0.73)	ND (0.69)	ND (0.79)	ND (0.77)	ND (0.81)
Endosulfan-I	ug/kg	200000	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.31)	ND (0.33)	ND (0.37)	ND (0.35)	ND (0.41)	ND (0.39)	ND (0.41)
Endosulfan-II	ug/kg	200000	ND (0.47)	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.45)	ND (0.51)	ND (0.48)	ND (0.55)	ND (0.53)	ND (0.56)
Heptachlor	ug/kg	15000	ND (0.44)	ND (0.42)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.47)	ND (0.45)	ND (0.51)	ND (0.50)	ND (0.53)
Heptachlor epoxide	ug/kg	-	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.38)	ND (0.36)	ND (0.41)	ND (0.40)	ND (0.42)
Methoxychlor	ug/kg	-	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.48)	ND (0.55)	ND (0.51)	ND (0.59)	ND (0.57)	ND (0.60)
Endrin ketone	ug/kg	-	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.54)	ND (0.53)	ND (0.56)
Toxaphene	ug/kg	-	ND (9.0)	ND (8.6)	ND (8.4)	ND (8.2)	ND (8.5)	ND (9.7)	ND (9.1)	ND (11)	ND (10)	ND (11)
<b>GC Semi-volatiles (SW846)</b>												
Aroclor 1016	ug/kg	1000	ND (9.4)	ND (8.9)	ND (8.5)	ND (8.3)	ND (9.0)	ND (10)	ND (9.8)	ND (11)	ND (10)	ND (11)
Aroclor 1221	ug/kg	1000	ND (22)	ND (21)	ND (20)	ND (19)	ND (21)	ND (23)	ND (23)	ND (25)	ND (24)	ND (25)
Aroclor 1232	ug/kg	1000	ND (18)	ND (17)	ND (17)	ND (16)	ND (18)	ND (19)	ND (19)	ND (21)	ND (20)	ND (21)
Aroclor 1242	ug/kg	1000	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)
Aroclor 1248	ug/kg	1000	ND (11)	ND (10)	ND (10)	ND (9.7)	ND (11)	ND (12)	ND (11)	ND (13)	ND (12)	ND (13)
Aroclor 1254	ug/kg	1000	ND (17)	ND (16)	ND (15)	ND (15)	ND (16)	ND (18)	ND (18)	ND (19)	ND (19)	ND (20)
Aroclor 1260	ug/kg	1000	ND (12)	ND (11)	ND (11)	ND (10)	ND (11)	ND (13)	ND (12)	ND (14)	ND (13)	ND (14)
Aroclor 1268	ug/kg	1000	ND (11)	ND (10)	ND (9.7)	ND (9.4)	ND (10)	ND (11)	ND (11)	ND (12)	ND (12)	ND (12)
Aroclor 1262	ug/kg	1000	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for PCBs/Pesticides using EPA Method 8081/8082.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use .**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



Client Sample ID:		NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC Semi-volatiles (SW846)</b>												
Aldrin	ug/kg	680	ND (0.39)	ND (0.50)	ND (0.36)	ND (0.38)	ND (0.36)	ND (0.35)	ND (0.37)	ND (0.42)	ND (0.40)	ND (0.38)
alpha-BHC	ug/kg	3400	ND (0.59)	ND (0.75)	ND (0.54)	ND (0.57)	ND (0.54)	ND (0.53)	ND (0.56)	ND (0.64)	ND (0.60)	ND (0.57)
beta-BHC	ug/kg	3000	ND (0.55)	ND (0.70)	ND (0.50)	ND (0.54)	1.8	ND (0.50)	ND (0.52)	ND (0.60)	ND (0.57)	ND (0.53)
delta-BHC	ug/kg	500000	ND (0.46)	ND (0.58)	ND (0.42)	ND (0.45)	ND (0.42)	ND (0.41)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.44)
gamma-BHC (Lindane)	ug/kg	9200	ND (0.36)	ND (0.45)	ND (0.33)	ND (0.35)	ND (0.33)	ND (0.32)	ND (0.34)	ND (0.39)	ND (0.37)	ND (0.35)
alpha-Chlordane	ug/kg	24000	ND (0.51)	ND (0.65)	ND (0.47)	11.5	ND (0.47)	ND (0.46)	ND (0.49)	ND (0.55)	ND (0.52)	ND (0.49)
gamma-Chlordane	ug/kg		ND (0.40)	ND (0.51)	ND (0.37)	13.2	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
Dieldrin	ug/kg	1400	ND (0.61)	ND (0.77)	ND (0.55)	2.4	ND (0.56)	ND (0.55)	ND (0.58)	ND (0.66)	ND (0.62)	ND (0.59)
4,4'-DDD	ug/kg	92000	1.3 <sup>a</sup>	ND (0.51)	ND (0.37)	6.6	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
4,4'-DDE	ug/kg	62000	ND (0.46)	ND (0.59)	ND (0.42)	8.7	ND (0.43)	ND (0.42)	ND (0.44)	ND (0.50)	5.9	ND (0.45)
4,4'-DDT	ug/kg	47000	11.7 <sup>b</sup>	ND (0.73)	ND (0.52)	122	ND (0.53)	ND (0.52)	31.9 <sup>b</sup>	ND (0.62)	39.5	ND (0.56)
Endrin	ug/kg	89000	ND (0.40)	ND (0.51)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
Endosulfan sulfate	ug/kg	200000	ND (0.71)	ND (0.90)	ND (0.65)	ND (0.69)	ND (0.65)	ND (0.64)	ND (0.67)	ND (0.77)	ND (0.73)	ND (0.69)
Endrin aldehyde	ug/kg	-	ND (0.74)	ND (0.94)	ND (0.68)	ND (0.72)	ND (0.69)	ND (0.67)	ND (0.71)	ND (0.80)	13	ND (0.72)
Endosulfan-I	ug/kg	200000	ND (0.38)	ND (0.48)	ND (0.35)	ND (0.37)	ND (0.35)	ND (0.34)	ND (0.36)	ND (0.41)	ND (0.39)	ND (0.37)
Endosulfan-II	ug/kg	200000	ND (0.52)	ND (0.66)	ND (0.47)	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.49)	ND (0.56)	ND (0.53)	ND (0.50)
Heptachlor	ug/kg	15000	ND (0.48)	ND (0.61)	ND (0.44)	ND (0.47)	ND (0.44)	ND (0.43)	ND (0.46)	ND (0.52)	ND (0.49)	ND (0.46)
Heptachlor epoxide	ug/kg		ND (0.39)	ND (0.49)	ND (0.35)	ND (0.38)	ND (0.36)	ND (0.35)	ND (0.37)	ND (0.42)	ND (0.40)	ND (0.37)
Methoxychlor	ug/kg		ND (0.55)	ND (0.70)	ND (0.50)	ND (0.54)	ND (0.51)	ND (0.50)	ND (0.53)	ND (0.60)	ND (0.57)	ND (0.54)
Endrin ketone	ug/kg	-	ND (0.51)	ND (0.65)	ND (0.46)	ND (0.50)	ND (0.47)	ND (0.46)	ND (0.48)	ND (0.55)	ND (0.52)	ND (0.49)
Toxaphene	ug/kg	-	ND (9.9)	ND (13)	ND (9.0)	ND (9.6)	ND (9.1)	ND (8.9)	ND (9.4)	ND (11)	ND (10)	ND (9.6)
<b>GC Semi-volatiles (SW846)</b>												
Aroclor 1016	ug/kg	1000	ND (11)	ND (13)	ND (9.3)	ND (9.9)	ND (9.4)	ND (9.2)	ND (9.7)	ND (11)	ND (10)	ND (9.9)
Aroclor 1221	ug/kg	1000	ND (24)	ND (30)	ND (22)	ND (23)	ND (22)	ND (21)	ND (22)	ND (26)	ND (23)	ND (23)
Aroclor 1232	ug/kg	1000	ND (21)	ND (25)	ND (18)	ND (19)	ND (18)	ND (18)	ND (19)	ND (21)	ND (20)	ND (19)
Aroclor 1242	ug/kg	1000	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (12)
Aroclor 1248	ug/kg	1000	ND (12)	ND (15)	ND (11)	ND (12)	ND (11)	ND (11)	ND (11)	ND (13)	ND (12)	ND (12)
Aroclor 1254	ug/kg	1000	ND (19)	ND (23)	ND (17)	ND (18)	ND (17)	ND (17)	ND (17)	ND (20)	ND (18)	ND (18)
Aroclor 1260	ug/kg	1000	ND (13)	ND (16)	ND (12)	ND (13)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (12)
Aroclor 1268	ug/kg	1000	ND (12)	ND (14)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (12)	ND (11)	ND (11)
Aroclor 1262	ug/kg	1000	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (12)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for PCBs/Pesticides using EPA Method 8081/8082.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use .**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



**Table 3**  
**PCBs / Pesticides in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 1206)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC Semi-volatiles (SW846)</b>												
Aldrin	ug/kg	97	ND (0.36)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.34)	ND (0.39)	ND (0.36)	ND (0.42)	ND (0.40)	ND (0.43)
alpha-BHC	ug/kg	480	ND (0.53)	ND (0.51)	ND (0.50)	ND (0.48)	ND (0.51)	ND (0.58)	ND (0.54)	ND (0.63)	ND (0.61)	ND (0.64)
beta-BHC	ug/kg	360	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.45)	ND (0.47)	ND (0.54)	ND (0.51)	ND (0.59)	ND (0.57)	ND (0.60)
delta-BHC	ug/kg	100000	ND (0.42)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.39)	ND (0.45)	ND (0.42)	ND (0.49)	ND (0.47)	ND (0.50)
gamma-BHC (Lindane)	ug/kg	1300	ND (0.32)	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.31)	ND (0.35)	ND (0.33)	ND (0.38)	ND (0.37)	ND (0.39)
alpha-Chlordane	ug/kg	4200	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.55)	ND (0.53)	ND (0.56)
gamma-Chlordane	ug/kg		ND (0.36)	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.35)	ND (0.39)	ND (0.37)	ND (0.43)	ND (0.41)	ND (0.44)
Dieldrin	ug/kg	200	ND (0.55)	ND (0.53)	ND (0.52)	ND (0.50)	ND (0.52)	ND (0.60)	ND (0.56)	ND (0.65)	ND (0.63)	ND (0.66)
4,4'-DDD	ug/kg	13000	ND (0.36)	ND (0.35)	6.2	ND (0.33)	ND (0.35)	ND (0.40)	2.5 <sup>a</sup>	ND (0.43)	ND (0.42)	ND (0.44)
4,4'-DDE	ug/kg	8900	ND (0.42)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.40)	ND (0.46)	ND (0.43)	ND (0.49)	ND (0.48)	ND (0.51)
4,4'-DDT	ug/kg	7900	9.7	ND (0.50)	ND (0.49)	ND (0.47)	ND (0.50)	ND (0.57)	15.8	1.2 <sup>b</sup>	1.9 <sup>b</sup>	2.3 <sup>b</sup>
Endrin	ug/kg	11000	ND (0.36)	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.35)	ND (0.39)	ND (0.37)	ND (0.43)	ND (0.41)	ND (0.44)
Endosulfan sulfate	ug/kg	24000	ND (0.64)	ND (0.62)	ND (0.61)	ND (0.59)	ND (0.61)	ND (0.70)	ND (0.66)	ND (0.76)	ND (0.73)	ND (0.78)
Endrin aldehyde	ug/kg	-	ND (0.67)	ND (0.65)	ND (0.64)	ND (0.61)	ND (0.64)	ND (0.73)	ND (0.69)	ND (0.79)	ND (0.77)	ND (0.81)
Endosulfan-I	ug/kg	24000	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.31)	ND (0.33)	ND (0.37)	ND (0.35)	ND (0.41)	ND (0.39)	ND (0.41)
Endosulfan-II	ug/kg	24000	ND (0.47)	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.45)	ND (0.51)	ND (0.48)	ND (0.55)	ND (0.53)	ND (0.56)
Heptachlor	ug/kg	2100	ND (0.44)	ND (0.42)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.47)	ND (0.45)	ND (0.51)	ND (0.50)	ND (0.53)
Heptachlor epoxide	ug/kg		ND (0.35)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.38)	ND (0.36)	ND (0.41)	ND (0.40)	ND (0.42)
Methoxychlor	ug/kg		ND (0.50)	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.48)	ND (0.55)	ND (0.51)	ND (0.59)	ND (0.57)	ND (0.60)
Endrin ketone	ug/kg	-	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.54)	ND (0.53)	ND (0.56)
Toxaphene	ug/kg	-	ND (9.0)	ND (8.6)	ND (8.4)	ND (8.2)	ND (8.5)	ND (9.7)	ND (9.1)	ND (11)	ND (10)	ND (11)
<b>GC Semi-volatiles (SW846)</b>												
Aroclor 1016	ug/kg	1000	ND (9.4)	ND (8.9)	ND (8.5)	ND (8.3)	ND (9.0)	ND (10)	ND (9.8)	ND (11)	ND (10)	ND (11)
Aroclor 1221	ug/kg	1000	ND (22)	ND (21)	ND (20)	ND (19)	ND (21)	ND (23)	ND (23)	ND (25)	ND (24)	ND (25)
Aroclor 1232	ug/kg	1000	ND (18)	ND (17)	ND (17)	ND (16)	ND (18)	ND (19)	ND (19)	ND (21)	ND (20)	ND (21)
Aroclor 1242	ug/kg	1000	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)
Aroclor 1248	ug/kg	1000	ND (11)	ND (10)	ND (10)	ND (9.7)	ND (11)	ND (12)	ND (11)	ND (13)	ND (12)	ND (13)
Aroclor 1254	ug/kg	1000	ND (17)	ND (16)	ND (15)	ND (15)	ND (16)	ND (18)	ND (18)	ND (19)	ND (19)	ND (20)
Aroclor 1260	ug/kg	1000	ND (12)	ND (11)	ND (11)	ND (10)	ND (11)	ND (13)	ND (12)	ND (14)	ND (13)	ND (14)
Aroclor 1268	ug/kg	1000	ND (11)	ND (10)	ND (9.7)	ND (9.4)	ND (10)	ND (11)	ND (11)	ND (12)	ND (12)	ND (12)
Aroclor 1262	ug/kg	1000	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for PCBs/Pesticides using EPA Method 8081/8082.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



Client Sample ID:		NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 1206)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC Semi-volatiles (SW846)</b>												
Aldrin	ug/kg	97	ND (0.39)	ND (0.50)	ND (0.36)	ND (0.38)	ND (0.36)	ND (0.35)	ND (0.37)	ND (0.42)	ND (0.40)	ND (0.38)
alpha-BHC	ug/kg	480	ND (0.59)	ND (0.75)	ND (0.54)	ND (0.57)	ND (0.54)	ND (0.53)	ND (0.56)	ND (0.64)	ND (0.60)	ND (0.57)
beta-BHC	ug/kg	360	ND (0.55)	ND (0.70)	ND (0.50)	ND (0.54)	1.8	ND (0.50)	ND (0.52)	ND (0.60)	ND (0.57)	ND (0.53)
delta-BHC	ug/kg	100000	ND (0.46)	ND (0.58)	ND (0.42)	ND (0.45)	ND (0.42)	ND (0.41)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.44)
gamma-BHC (Lindane)	ug/kg	1300	ND (0.36)	ND (0.45)	ND (0.33)	ND (0.35)	ND (0.33)	ND (0.32)	ND (0.34)	ND (0.39)	ND (0.37)	ND (0.35)
alpha-Chlordane	ug/kg	4200	ND (0.51)	ND (0.65)	ND (0.47)	11.5	ND (0.47)	ND (0.46)	ND (0.49)	ND (0.55)	ND (0.52)	ND (0.49)
gamma-Chlordane	ug/kg	1300	ND (0.40)	ND (0.51)	ND (0.37)	13.2	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
Dieldrin	ug/kg	200	ND (0.61)	ND (0.77)	ND (0.55)	2.4	ND (0.56)	ND (0.55)	ND (0.58)	ND (0.66)	ND (0.62)	ND (0.59)
4,4'-DDD	ug/kg	13000	1.3 <sup>a</sup>	ND (0.51)	ND (0.37)	6.6	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
4,4'-DDE	ug/kg	8900	ND (0.46)	ND (0.59)	ND (0.42)	8.7	ND (0.43)	ND (0.42)	ND (0.44)	ND (0.50)	5.9	ND (0.45)
4,4'-DDT	ug/kg	7900	11.7 <sup>b</sup>	ND (0.73)	ND (0.52)	122	ND (0.53)	ND (0.52)	31.9 <sup>b</sup>	ND (0.62)	39.5	ND (0.56)
Endrin	ug/kg	11000	ND (0.40)	ND (0.51)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
Endosulfan sulfate	ug/kg	24000	ND (0.71)	ND (0.90)	ND (0.65)	ND (0.69)	ND (0.65)	ND (0.64)	ND (0.67)	ND (0.77)	ND (0.73)	ND (0.69)
Endrin aldehyde	ug/kg	-	ND (0.74)	ND (0.94)	ND (0.68)	ND (0.72)	ND (0.69)	ND (0.67)	ND (0.71)	ND (0.80)	13	ND (0.72)
Endosulfan-I	ug/kg	24000	ND (0.38)	ND (0.48)	ND (0.35)	ND (0.37)	ND (0.35)	ND (0.34)	ND (0.36)	ND (0.41)	ND (0.39)	ND (0.37)
Endosulfan-II	ug/kg	24000	ND (0.52)	ND (0.66)	ND (0.47)	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.49)	ND (0.56)	ND (0.53)	ND (0.50)
Heptachlor	ug/kg	2100	ND (0.48)	ND (0.61)	ND (0.44)	ND (0.47)	ND (0.44)	ND (0.43)	ND (0.46)	ND (0.52)	ND (0.49)	ND (0.46)
Heptachlor epoxide	ug/kg	-	ND (0.39)	ND (0.49)	ND (0.35)	ND (0.38)	ND (0.36)	ND (0.35)	ND (0.37)	ND (0.42)	ND (0.40)	ND (0.37)
Methoxychlor	ug/kg	-	ND (0.55)	ND (0.70)	ND (0.50)	ND (0.54)	ND (0.51)	ND (0.50)	ND (0.53)	ND (0.60)	ND (0.57)	ND (0.54)
Endrin ketone	ug/kg	-	ND (0.51)	ND (0.65)	ND (0.46)	ND (0.50)	ND (0.47)	ND (0.46)	ND (0.48)	ND (0.55)	ND (0.52)	ND (0.49)
Toxaphene	ug/kg	-	ND (9.9)	ND (13)	ND (9.0)	ND (9.6)	ND (9.1)	ND (8.9)	ND (9.4)	ND (11)	ND (10)	ND (9.6)
<b>GC Semi-volatiles (SW846)</b>												
Aroclor 1016	ug/kg	1000	ND (11)	ND (13)	ND (9.3)	ND (9.9)	ND (9.4)	ND (9.2)	ND (9.7)	ND (11)	ND (10)	ND (9.9)
Aroclor 1221	ug/kg	1000	ND (24)	ND (30)	ND (22)	ND (23)	ND (22)	ND (21)	ND (22)	ND (26)	ND (23)	ND (23)
Aroclor 1232	ug/kg	1000	ND (21)	ND (25)	ND (18)	ND (19)	ND (18)	ND (18)	ND (19)	ND (21)	ND (20)	ND (19)
Aroclor 1242	ug/kg	1000	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (12)
Aroclor 1248	ug/kg	1000	ND (12)	ND (15)	ND (11)	ND (12)	ND (11)	ND (11)	ND (11)	ND (13)	ND (12)	ND (12)
Aroclor 1254	ug/kg	1000	ND (19)	ND (23)	ND (17)	ND (18)	ND (17)	ND (17)	ND (17)	ND (20)	ND (18)	ND (18)
Aroclor 1260	ug/kg	1000	ND (13)	ND (16)	ND (12)	ND (13)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (12)
Aroclor 1268	ug/kg	1000	ND (12)	ND (14)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (12)	ND (11)	ND (11)
Aroclor 1262	ug/kg	1000	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (12)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for PCBs/Pesticides using EPA Method 8081/8082.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



**Table 3**  
**PCBs / Pesticides in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC Semi-volatiles (SW846)</b>												
Aldrin	ug/kg	5	ND (0.36)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.34)	ND (0.39)	ND (0.36)	ND (0.42)	ND (0.40)	ND (0.43)
alpha-BHC	ug/kg	20	ND (0.53)	ND (0.51)	ND (0.50)	ND (0.48)	ND (0.51)	ND (0.58)	ND (0.54)	ND (0.63)	ND (0.61)	ND (0.64)
beta-BHC	ug/kg	36	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.45)	ND (0.47)	ND (0.54)	ND (0.51)	ND (0.59)	ND (0.57)	ND (0.60)
delta-BHC	ug/kg	40	ND (0.42)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.39)	ND (0.45)	ND (0.42)	ND (0.49)	ND (0.47)	ND (0.50)
gamma-BHC (Lindane)	ug/kg	100	ND (0.32)	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.31)	ND (0.35)	ND (0.33)	ND (0.38)	ND (0.37)	ND (0.39)
alpha-Chlordane	ug/kg	94	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.55)	ND (0.53)	ND (0.56)
gamma-Chlordane	ug/kg	-	ND (0.36)	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.35)	ND (0.39)	ND (0.37)	ND (0.43)	ND (0.41)	ND (0.44)
Dieldrin	ug/kg	5	ND (0.55)	ND (0.53)	ND (0.52)	ND (0.50)	ND (0.52)	ND (0.60)	ND (0.56)	ND (0.65)	ND (0.63)	ND (0.66)
4,4'-DDD	ug/kg	3.3	ND (0.36)	ND (0.35)	<b>6.2</b>	ND (0.33)	ND (0.35)	ND (0.40)	<b>2.5<sup>a</sup></b>	ND (0.43)	ND (0.42)	ND (0.44)
4,4'-DDE	ug/kg	3.3	ND (0.42)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.40)	ND (0.46)	ND (0.43)	ND (0.49)	ND (0.48)	ND (0.51)
4,4'-DDT	ug/kg	3.3	<b>9.7</b>	ND (0.50)	ND (0.49)	ND (0.47)	ND (0.50)	ND (0.57)	<b>15.8</b>	<b>1.2<sup>b</sup></b>	<b>1.9<sup>b</sup></b>	<b>2.3<sup>b</sup></b>
Endrin	ug/kg	14	ND (0.36)	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.35)	ND (0.39)	ND (0.37)	ND (0.43)	ND (0.41)	ND (0.44)
Endosulfan sulfate	ug/kg	2400	ND (0.64)	ND (0.62)	ND (0.61)	ND (0.59)	ND (0.61)	ND (0.70)	ND (0.66)	ND (0.76)	ND (0.73)	ND (0.78)
Endrin aldehyde	ug/kg	-	ND (0.67)	ND (0.65)	ND (0.64)	ND (0.61)	ND (0.64)	ND (0.73)	ND (0.69)	ND (0.79)	ND (0.77)	ND (0.81)
Endosulfan-I	ug/kg	2400	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.31)	ND (0.33)	ND (0.37)	ND (0.35)	ND (0.41)	ND (0.39)	ND (0.41)
Endosulfan-II	ug/kg	2400	ND (0.47)	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.45)	ND (0.51)	ND (0.48)	ND (0.55)	ND (0.53)	ND (0.56)
Heptachlor	ug/kg	42	ND (0.44)	ND (0.42)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.47)	ND (0.45)	ND (0.51)	ND (0.50)	ND (0.53)
Heptachlor epoxide	ug/kg	-	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.38)	ND (0.36)	ND (0.41)	ND (0.40)	ND (0.42)
Methoxychlor	ug/kg	-	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.48)	ND (0.55)	ND (0.51)	ND (0.59)	ND (0.57)	ND (0.60)
Endrin ketone	ug/kg	-	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.54)	ND (0.53)	ND (0.56)
Toxaphene	ug/kg	-	ND (9.0)	ND (8.6)	ND (8.4)	ND (8.2)	ND (8.5)	ND (9.7)	ND (9.1)	ND (11)	ND (10)	ND (11)
<b>GC Semi-volatiles (SW846)</b>												
Aroclor 1016	ug/kg	100	ND (9.4)	ND (8.9)	ND (8.5)	ND (8.3)	ND (9.0)	ND (10)	ND (9.8)	ND (11)	ND (10)	ND (11)
Aroclor 1221	ug/kg	100	ND (22)	ND (21)	ND (20)	ND (19)	ND (21)	ND (23)	ND (23)	ND (25)	ND (24)	ND (25)
Aroclor 1232	ug/kg	100	ND (18)	ND (17)	ND (17)	ND (16)	ND (18)	ND (19)	ND (19)	ND (21)	ND (20)	ND (21)
Aroclor 1242	ug/kg	100	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)
Aroclor 1248	ug/kg	100	ND (11)	ND (10)	ND (10)	ND (9.7)	ND (11)	ND (12)	ND (11)	ND (13)	ND (12)	ND (13)
Aroclor 1254	ug/kg	100	ND (17)	ND (16)	ND (15)	ND (15)	ND (16)	ND (18)	ND (18)	ND (19)	ND (19)	ND (20)
Aroclor 1260	ug/kg	100	ND (12)	ND (11)	ND (11)	ND (10)	ND (11)	ND (13)	ND (12)	ND (14)	ND (13)	ND (14)
Aroclor 1268	ug/kg	100	ND (11)	ND (10)	ND (9.7)	ND (9.4)	ND (10)	ND (11)	ND (11)	ND (12)	ND (12)	ND (12)
Aroclor 1262	ug/kg	100	ND (11)	ND (11)	ND (10)	ND (10)	ND (11)	ND (12)	ND (12)	ND (13)	ND (13)	ND (13)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for PCBs/Pesticides using EPA Method 8081/8082.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>GC Semi-volatiles (SW846)</b>												
Aldrin	ug/kg	5	ND (0.39)	ND (0.50)	ND (0.36)	ND (0.38)	ND (0.36)	ND (0.35)	ND (0.37)	ND (0.42)	ND (0.40)	ND (0.38)
alpha-BHC	ug/kg	20	ND (0.59)	ND (0.75)	ND (0.54)	ND (0.57)	ND (0.54)	ND (0.53)	ND (0.56)	ND (0.64)	ND (0.60)	ND (0.57)
beta-BHC	ug/kg	36	ND (0.55)	ND (0.70)	ND (0.50)	ND (0.54)	1.8	ND (0.50)	ND (0.52)	ND (0.60)	ND (0.57)	ND (0.53)
delta-BHC	ug/kg	40	ND (0.46)	ND (0.58)	ND (0.42)	ND (0.45)	ND (0.42)	ND (0.41)	ND (0.44)	ND (0.50)	ND (0.47)	ND (0.44)
gamma-BHC (Lindane)	ug/kg	100	ND (0.36)	ND (0.45)	ND (0.33)	ND (0.35)	ND (0.33)	ND (0.32)	ND (0.34)	ND (0.39)	ND (0.37)	ND (0.35)
alpha-Chlordane	ug/kg	94	ND (0.51)	ND (0.65)	ND (0.47)	11.5	ND (0.47)	ND (0.46)	ND (0.49)	ND (0.55)	ND (0.52)	ND (0.49)
gamma-Chlordane	ug/kg	-	ND (0.40)	ND (0.51)	ND (0.37)	13.2	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
Dieldrin	ug/kg	5	ND (0.61)	ND (0.77)	ND (0.55)	2.4	ND (0.56)	ND (0.55)	ND (0.58)	ND (0.66)	ND (0.62)	ND (0.59)
4,4'-DDD	ug/kg	3.3	1.3 <sup>a</sup>	ND (0.51)	ND (0.37)	6.6	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
4,4'-DDE	ug/kg	3.3	ND (0.46)	ND (0.59)	ND (0.42)	8.7	ND (0.43)	ND (0.42)	ND (0.44)	ND (0.50)	5.9	ND (0.45)
4,4'-DDT	ug/kg	3.3	11.7 <sup>b</sup>	ND (0.73)	ND (0.52)	122	ND (0.53)	ND (0.52)	31.9 <sup>b</sup>	ND (0.62)	39.5	ND (0.56)
Endrin	ug/kg	14	ND (0.40)	ND (0.51)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.39)
Endosulfan sulfate	ug/kg	2400	ND (0.71)	ND (0.90)	ND (0.65)	ND (0.69)	ND (0.65)	ND (0.64)	ND (0.67)	ND (0.77)	ND (0.73)	ND (0.69)
Endrin aldehyde	ug/kg	-	ND (0.74)	ND (0.94)	ND (0.68)	ND (0.72)	ND (0.69)	ND (0.67)	ND (0.71)	ND (0.80)	13	ND (0.72)
Endosulfan-I	ug/kg	2400	ND (0.38)	ND (0.48)	ND (0.35)	ND (0.37)	ND (0.35)	ND (0.34)	ND (0.36)	ND (0.41)	ND (0.39)	ND (0.37)
Endosulfan-II	ug/kg	2400	ND (0.52)	ND (0.66)	ND (0.47)	ND (0.50)	ND (0.48)	ND (0.47)	ND (0.49)	ND (0.56)	ND (0.53)	ND (0.50)
Heptachlor	ug/kg	42	ND (0.48)	ND (0.61)	ND (0.44)	ND (0.47)	ND (0.44)	ND (0.43)	ND (0.46)	ND (0.52)	ND (0.49)	ND (0.46)
Heptachlor epoxide	ug/kg	-	ND (0.39)	ND (0.49)	ND (0.35)	ND (0.38)	ND (0.36)	ND (0.35)	ND (0.37)	ND (0.42)	ND (0.40)	ND (0.37)
Methoxychlor	ug/kg	-	ND (0.55)	ND (0.70)	ND (0.50)	ND (0.54)	ND (0.51)	ND (0.50)	ND (0.53)	ND (0.60)	ND (0.57)	ND (0.54)
Endrin ketone	ug/kg	-	ND (0.51)	ND (0.65)	ND (0.46)	ND (0.50)	ND (0.47)	ND (0.46)	ND (0.48)	ND (0.55)	ND (0.52)	ND (0.49)
Toxaphene	ug/kg	-	ND (9.9)	ND (13)	ND (9.0)	ND (9.6)	ND (9.1)	ND (8.9)	ND (9.4)	ND (11)	ND (10)	ND (9.6)
<b>GC Semi-volatiles (SW846)</b>												
Aroclor 1016	ug/kg	100	ND (11)	ND (13)	ND (9.3)	ND (9.9)	ND (9.4)	ND (9.2)	ND (9.7)	ND (11)	ND (10)	ND (9.9)
Aroclor 1221	ug/kg	100	ND (24)	ND (30)	ND (22)	ND (23)	ND (22)	ND (21)	ND (22)	ND (26)	ND (23)	ND (23)
Aroclor 1232	ug/kg	100	ND (21)	ND (25)	ND (18)	ND (19)	ND (18)	ND (18)	ND (19)	ND (21)	ND (20)	ND (19)
Aroclor 1242	ug/kg	100	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (12)
Aroclor 1248	ug/kg	100	ND (12)	ND (15)	ND (11)	ND (12)	ND (11)	ND (11)	ND (11)	ND (13)	ND (12)	ND (12)
Aroclor 1254	ug/kg	100	ND (19)	ND (23)	ND (17)	ND (18)	ND (17)	ND (17)	ND (17)	ND (20)	ND (18)	ND (18)
Aroclor 1260	ug/kg	100	ND (13)	ND (16)	ND (12)	ND (13)	ND (12)	ND (12)	ND (12)	ND (14)	ND (13)	ND (12)
Aroclor 1268	ug/kg	100	ND (12)	ND (14)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (12)	ND (11)	ND (11)
Aroclor 1262	ug/kg	100	ND (13)	ND (16)	ND (11)	ND (12)	ND (11)	ND (11)	ND (12)	ND (13)	ND (12)	ND (12)

**Notes**

All results given in micrograms per kilogram (ug/kg)

Samples analyzed for PCBs/Pesticides using EPA Method 8081/8082.

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

NS = No Standard

J = data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is



**Table 4  
Metals in Groundwater**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY TOGS Class GA GW Standards (NYSDEC 6/2004) <sup>1</sup>	GW-4 (ALT)	GW-5	GW-6	GW-7 (ALT)	GW-8 (ALT)
Lab Sample ID:			JB13738-1	JB13738-2	JB13738-3	JB13738-7	JB13738-8
Date Sampled:			8/8/2012	8/8/2012	8/8/2012	8/10/2012	8/13/2012
Matrix:			Ground Water				

**Metals Analysis**

Aluminum	ug/l	-	781	693	741	645	441
Antimony	ug/l	3	<6.0	<6.0	<6.0	<6.0	<6.0
Arsenic	ug/l	25	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	ug/l	1000	223	222	230	<200	<200
Beryllium	ug/l	-	<1.0	<1.0	<1.0	<1.0	<1.0
Cadmium	ug/l	5	<3.0	<3.0	<3.0	<3.0	<3.0
Calcium	ug/l	-	141000	138000	143000	179000	181000
Chromium	ug/l	50	<10	<10	<10	<10	<10
Cobalt	ug/l	-	<50	<50	<50	<50	<50
Copper	ug/l	200	<10	<10	<10	<10	<10
Iron	ug/l	300	<b>7640</b>	<b>7630</b>	<b>7550</b>	<b>1070</b>	<b>868</b>
Lead	ug/l	25	4.7	4.4	4.2	<3.0	<3.0
Magnesium	ug/l	-	45700	44500	46400	79500	80700
Manganese	ug/l	300	<b>2890</b>	<b>2800</b>	<b>2980</b>	<b>7760</b>	<b>7670</b>
Mercury	ug/l	0.7	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	ug/l	100	<10	<10	<10	18	17.2
Potassium	ug/l	-	<10000	<10000	<10000	<10000	<10000
Selenium	ug/l	10	<10	<10	<10	<10	<10
Silver	ug/l	50	<10	<10	<10	<10	<10
Sodium	ug/l	20000	<b>299000</b>	<b>289000</b>	<b>303000</b>	<b>93600</b>	<b>96800</b>
Thallium	ug/l	-	<2.0	<2.0	<2.0	<2.0	<2.0
Vanadium	ug/l	-	<50	<50	<50	<50	<50
Zinc	ug/l	-	90.8	87.1	94.5	<20	<20

**Notes**  
 All results given in micrograms per liter (ug/L)  
 Results Compared to New York State Technical and Operational Series (TOGS) 1.1.1 , Ambient Water Quality Standards Class GA  
**Bold/highlighted values exceeded the NYSDEC TOGS 1.1.1.**

ND = Not Detected  
 NS = No Standard  
 result is estimated.



**Table 4  
Metals in Groundwater**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY TOGS Class GA GW Standards (NYSDEC 6/2004) <sup>1</sup>	GW-4 (ALT)	GW-5	GW-6	GW-7 (ALT)	GW-8 (ALT)
Lab Sample ID:			JB13738-1F	JB13738-2F	JB13738-3F	JB13738-7F	JB13738-8F
Date Sampled:			8/8/2012	8/8/2012	8/8/2012	8/10/2012	8/13/2012
Matrix:			Groundwater Filtered	Groundwater Filtered	Groundwater Filtered	Groundwater Filtered	Groundwater Filtered

**Metals Analysis**

Element	Unit	NY TOGS Class	GW-4 (ALT)	GW-5	GW-6	GW-7 (ALT)	GW-8 (ALT)
Aluminum	ug/l	-	1170	1030	466	596	354
Antimony	ug/l	3	<6.0	<6.0	<6.0	<6.0	<6.0
Arsenic	ug/l	25	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	ug/l	1000	203	<200	229	<200	<200
Beryllium	ug/l	-	<1.0	<1.0	<1.0	<1.0	<1.0
Cadmium	ug/l	5	<3.0	<3.0	<3.0	<3.0	<3.0
Calcium	ug/l	-	125000	101000	142000	202000	203000
Chromium	ug/l	50	<10	<10	<10	<10	<10
Cobalt	ug/l	-	<50	<50	<50	<50	<50
Copper	ug/l	200	<10	<10	<10	<10	<10
Iron	ug/l	300	<b>7640</b>	<b>6810</b>	<b>6620</b>	<b>1110</b>	<b>670</b>
Lead	ug/l	25	7.6	8.2	3.3	<3.0	<3.0
Magnesium	ug/l	-	40800	29500	46000	89800	90100
Manganese	ug/l	300	<b>2550</b>	<b>2040</b>	<b>2870</b>	<b>8670</b>	<b>8530</b>
Mercury	ug/l	0.7	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	ug/l	100	<10	<10	<10	19.6	18.8
Potassium	ug/l	-	<10000	<10000	<10000	<10000	<10000
Selenium	ug/l	10	<10	<10	<10	<10	<10
Silver	ug/l	50	<10	<10	<10	<10	<10
Sodium	ug/l	20000	<b>260000</b>	<b>213000</b>	<b>299000</b>	<b>108000</b>	<b>109000</b>
Thallium	ug/l	-	<2.0	<2.0	<2.0	<2.0	<2.0
Vanadium	ug/l	-	<50	<50	<50	<50	<50
Zinc	ug/l	-	105	70.2	91.7	<20	<20

**Notes**  
All results given in micrograms per liter (ug/L)  
Results Compared to New York State Technical and Operational Series (TOGS) 1.1.1 , Ambient Water Quality Standards Class GA

**Bold/highlighted values exceeded the NYSDEC TOGS 1.1.1.**

ND = Not Detected  
NS = No Standard  
result is estimated.



**Table 4  
Metals in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Commercial	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:		w/CP-51 (10/10)	JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:		(6 NYCRR 375-6 12/06)	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Metals Analysis</b>												
Aluminum	mg/kg		6500	7020	9860	4160	4910	14500	6890	10700	7320	10500
Antimony	mg/kg		<2.3	<2.2	<2.1	<2.0	<2.1	<2.3	<2.4	<2.4	<2.5	<2.6
Arsenic	mg/kg	16	5.9	<2.2	3.4	<2.0	2.4	4.1	9.3	4.4	3.6	5.1
Barium	mg/kg	400	199	42.5	61.3	25.5	33.8	53.4	334	107	138	104
Beryllium	mg/kg	590	0.25	0.32	0.76	0.24	0.24	0.59	0.73	0.47	0.46	1.5
Cadmium	mg/kg	9.3	1	<0.54	<0.54	<0.51	<0.52	<0.58	1.7	<0.60	<0.62	<0.65
Calcium	mg/kg		2140	1130	8030	1400	1810	2080	9620	3390	4430	2800
Chromium	mg/kg	-	16.4	15.2	30.5	9.6	11.3	16.7	19.3	24.7	14	34.1
Cobalt	mg/kg		6	<5.4	12.6	<5.1	<5.2	5.9	8.8	6.8	<6.2	20
Copper	mg/kg	270	<b>4100</b>	14.2	90.5	11.5	66.3	18.6	174	51.4	24.4	174
Iron	mg/kg		23800	11600	21000	9960	9310	17500	16500	15300	14200	21600
Lead	mg/kg	1000	426	8.3	86.3	7.9	90.4	50.4	765	203	386	239
Magnesium	mg/kg	-	1780	2270	3610	1800	2480	3020	2550	2720	1880	3010
Manganese	mg/kg	10000	325	527	362	278	172	289	249	168	269	325
Mercury	mg/kg	2.8	0.77	<0.034	0.034	<0.033	0.079	0.066	0.43	0.73	1.4	1.2
Nickel	mg/kg	310	16.1	12.5	17.9	9	9.6	11.7	25.2	15.1	9.9	33.1
Potassium	mg/kg	-	<1100	<1100	1240	<1000	<1000	<1200	1460	1290	<1200	<1300
Selenium	mg/kg	1500	<2.3	<2.2	<2.1	<2.0	<2.1	<2.3	<2.4	<2.4	<2.5	<2.6
Silver	mg/kg	1500	<0.57	<0.54	<0.54	<0.51	<0.52	<0.58	<0.60	<0.60	<0.62	<0.65
Sodium	mg/kg	-	<1100	<1100	<1100	<1000	<1000	<1200	<1200	<1200	<1200	<1300
Thallium	mg/kg		<1.1	<1.1	<1.1	<1.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.3
Vanadium	mg/kg		22	18.3	29.3	15.4	15.4	24.9	24.7	27.9	20.6	28
Zinc	mg/kg	10000	445	29.8	554	20	55.6	34.7	781	119	169	1320

**Notes**

All results given in milligrams per kilogram (mg/kg)  
Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use.**

ND = Not Detected

NS = No Standard

J = J test indicates the presence of a compound less than the quantitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



Client Sample ID:		NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Metals Analysis</b>												
Aluminum	mg/kg		13500	13000	6780	6600	6070	11200	9330	18200	8740	15700
Antimony	mg/kg		<2.4	<3.2	<2.2	<2.3	<2.2	<2.3	<2.3	<2.7	<2.3	<2.5
Arsenic	mg/kg	16	4.8	5.5	2.2	7.4	3	3.1	14.2	3.1	16	2.6
Barium	mg/kg	400	78.4	99.8	44.7	260	32.5	55.8	<b>492</b>	154	<b>2790</b>	76.4
Beryllium	mg/kg	590	0.51	0.52	0.38	0.39	0.37	0.57	0.66	0.88	0.6	0.75
Cadmium	mg/kg	9.3	<0.61	<0.79	<0.54	2.6	<0.56	<0.57	1.7	<0.67	1.4	<0.63
Calcium	mg/kg		1840	4280	1240	3980	823	1890	10600	4540	13300	2190
Chromium	mg/kg	-	23.5	24.9	13.2	23	16.1	24.1	22.9	42.3	21.7	33.8
Cobalt	mg/kg		<6.1	<7.9	5.4	<5.7	<5.6	8.4	<5.9	10.8	<5.8	8.6
Copper	mg/kg	270	27	30	14.7	86.7	14.5	14.7	130	30.6	107	24.4
Iron	mg/kg		14700	17400	11900	13700	11800	19000	18700	27600	15600	22000
Lead	mg/kg	1000	358	203	32.3	837	16.4	7.3	847	9.8	<b>1310</b>	10.9
Magnesium	mg/kg	-	3090	3030	1780	2700	1510	3110	2950	9010	2030	6190
Manganese	mg/kg	10000	138	320	247	264	245	425	363	765	245	391
Mercury	mg/kg	2.8	0.56	1.8	<0.035	0.55	<0.033	0.28	0.45	<0.043	1.8	<0.041
Nickel	mg/kg	310	15.3	15.2	11.5	18.9	14.1	18.6	16.6	36.1	14.3	29.6
Potassium	mg/kg	-	1320	<1600	<1100	<1100	<1100	1560	<1200	5550	<1200	2370
Selenium	mg/kg	1500	<2.4	<3.2	<2.2	<2.2	<2.2	<2.3	2.6	<2.7	3.3	<2.5
Silver	mg/kg	1500	<0.61	<0.79	<0.54	0.9	<0.56	<0.57	1	<0.67	3.1	<0.63
Sodium	mg/kg	-	<1200	<1600	<1100	<1100	<1100	<1100	<1200	<1300	<1200	<1300
Thallium	mg/kg		<1.2	<1.6	<1.1	<1.1	<1.1	<1.2	<1.3	<1.2	<1.2	<1.3
Vanadium	mg/kg		28.1	29.1	19.2	37.2	24.2	32.9	28.7	51.9	26.9	43.9
Zinc	mg/kg	10000	77.8	124	33.8	588	25.8	35	697	80.2	1140	74.1

**Notes**

All results given in milligrams per kilogram (mg/kg)  
 Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Restricted Use Soil Cleanup Objectives, Protection of public health - Commercial Use.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO - Commercial Use .**

ND = Not Detected

NS = No Standard  
 U = Data indicates the presence of a compound less than the quantitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



**Table 4  
Metals in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Metals Analysis</b>												
Aluminum	mg/kg		6500	7020	9860	4160	4910	14500	6890	10700	7320	10500
Antimony	mg/kg		<2.3	<2.2	<2.1	<2.0	<2.1	<2.3	<2.4	<2.4	<2.5	<2.6
Arsenic	mg/kg	16	5.9	<2.2	3.4	<2.0	2.4	4.1	9.3	4.4	3.6	5.1
Barium	mg/kg	400	199	42.5	61.3	25.5	33.8	53.4	334	107	138	104
Beryllium	mg/kg	72	0.25	0.32	0.76	0.24	0.24	0.59	0.73	0.47	0.46	1.5
Cadmium	mg/kg	4.3	1	<0.54	<0.54	<0.51	<0.52	<0.58	1.7	<0.60	<0.62	<0.65
Calcium	mg/kg		2140	1130	8030	1400	1810	2080	9620	3390	4430	2800
Chromium	mg/kg	-	16.4	15.2	30.5	9.6	11.3	16.7	19.3	24.7	14	34.1
Cobalt	mg/kg		6	<5.4	12.6	<5.1	<5.2	5.9	8.8	6.8	<6.2	20
Copper	mg/kg	270	4100	14.2	90.5	11.5	66.3	18.6	174	51.4	24.4	174
Iron	mg/kg		23800	11600	21000	9960	9310	17500	16500	15300	14200	21600
Lead	mg/kg	400	426	8.3	86.3	7.9	90.4	50.4	765	203	386	239
Magnesium	mg/kg		1780	2270	3610	1800	2480	3020	2550	2720	1880	3010
Manganese	mg/kg	2000	325	527	362	278	172	289	249	168	269	325
Mercury	mg/kg	0.81	0.77	<0.034	0.034	<0.033	0.079	0.066	0.43	0.73	1.4	1.2
Nickel	mg/kg	310	16.1	12.5	17.9	9	9.6	11.7	25.2	15.1	9.9	33.1
Potassium	mg/kg	-	<1100	<1100	1240	<1000	<1000	<1200	1460	1290	<1200	<1300
Selenium	mg/kg	180	<2.3	<2.2	<2.1	<2.0	<2.1	<2.3	<2.4	<2.4	<2.5	<2.6
Silver	mg/kg	180	<0.57	<0.54	<0.54	<0.51	<0.52	<0.58	<0.60	<0.60	<0.62	<0.65
Sodium	mg/kg	-	<1100	<1100	<1100	<1000	<1000	<1200	<1200	<1200	<1200	<1300
Thallium	mg/kg		<1.1	<1.1	<1.1	<1.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.3
Vanadium	mg/kg		22	18.3	29.3	15.4	15.4	24.9	24.7	27.9	20.6	28
Zinc	mg/kg	10000	445	29.8	554	20	55.6	34.7	781	119	169	1320

**Notes**

All results given in milligrams per kilogram (mg/kg)  
Results Compared to New York State Department of Environmental  
Conservation, Division of Environmental Remediation 6 NYCRR PART  
375 Restricted Use Soil Cleanup Objectives, Protection of public health -  
Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO -  
Restricted Residential Use**

ND = Not Detected

NS = No Standard

J = Less indicates the presence of a compound less than the quantitative,  
reporting detection limit (RDL) but greater than the quantitative, method  
detection limit (MDL). Therefore, the result is estimated.



Client Sample ID:		NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Metals Analysis</b>												
Aluminum	mg/kg		13500	13000	6780	6600	6070	11200	9330	18200	8740	15700
Antimony	mg/kg		<2.4	<3.2	<2.2	<2.3	<2.2	<2.3	<2.3	<2.7	<2.3	<2.5
Arsenic	mg/kg	16	4.8	5.5	2.2	7.4	3	3.1	14.2	3.1	16	2.6
Barium	mg/kg	400	78.4	99.8	44.7	260	32.5	55.8	492	154	2790	76.4
Beryllium	mg/kg	72	0.51	0.52	0.38	0.39	0.37	0.57	0.66	0.88	0.6	0.75
Cadmium	mg/kg	4.3	<0.61	<0.79	<0.54	2.6	<0.56	<0.57	1.7	<0.67	1.4	<0.63
Calcium	mg/kg		1840	4280	1240	3980	823	1890	10600	4540	13300	2190
Chromium	mg/kg	-	23.5	24.9	13.2	23	16.1	24.1	22.9	42.3	21.7	33.8
Cobalt	mg/kg		<6.1	<7.9	5.4	<5.7	<5.6	8.4	<5.9	10.8	<5.8	8.6
Copper	mg/kg	270	27	30	14.7	86.7	14.5	14.7	130	30.6	107	24.4
Iron	mg/kg		14700	17400	11900	13700	11600	19000	18700	27600	15600	22000
Lead	mg/kg	400	358	203	32.3	837	16.4	7.3	847	9.8	1310	10.9
Magnesium	mg/kg	-	3090	3030	1780	2700	1510	3110	2950	9010	2030	6190
Manganese	mg/kg	2000	138	320	247	264	245	425	363	765	245	391
Mercury	mg/kg	0.81	0.56	1.8	<0.035	0.55	<0.033	0.28	0.45	<0.043	1.8	<0.041
Nickel	mg/kg	310	15.3	15.2	11.5	18.9	14.1	18.6	16.6	36.1	14.3	29.6
Potassium	mg/kg	-	1320	<1600	<1100	<1100	<1100	1560	<1200	5550	<1200	2370
Selenium	mg/kg	180	<2.4	<3.2	<2.2	<2.3	<2.2	<2.3	2.6	<2.7	3.3	<2.5
Silver	mg/kg	180	<0.61	<0.79	<0.54	0.9	<0.56	<0.57	1	<0.67	3.1	<0.63
Sodium	mg/kg	-	<1200	<1600	<1100	<1100	<1100	<1100	<1200	<1300	<1200	<1300
Thallium	mg/kg		<1.2	<1.6	<1.1	<1.1	<1.1	<1.1	<1.2	<1.3	<1.2	<1.3
Vanadium	mg/kg		28.1	29.1	19.2	37.2	24.2	32.9	28.7	51.9	26.9	43.9
Zinc	mg/kg	10000	77.8	124	33.8	588	25.8	35	697	80.2	1140	74.1

**Notes**

All results given in milligrams per kilogram (mg/kg)  
 Results Compared to New York State Department of Environmental  
 Conservation, Division of Environmental Remediation 6 NYCRR PART  
 375 Restricted Use Soil Cleanup Objectives, Protection of public health -  
 Restricted Residential.

**Bold/highlighted values exceeded the NYSDEC Part 375 RSCO -  
 Restricted Residential Use**

ND = Not Detected

NS = No Standard  
 \* = Less than the presence of a compound less than the quantitative,  
 reporting detection limit (RDL) but greater than the quantitative, method  
 detection limit (MDL). Therefore the result is estimated



**Table 4  
Metals in Soil**

Rockrose Development, Fleet Site  
Jackson Avenue, Long Island City, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6.12/06)	SB-5(0-2)	SB-5(10-12)	SB-6(0-2) ALT	SB-6(12-14) ALT	SB-7(0-2)	SB-7(12-14)	SB-8(0-2)	SB-8(6-8)	SB-9(0-2)	SB-9(6-8)
Lab Sample ID:			JB13726-9	JB13726-10	JB13726-11	JB13726-12	JB13726-13	JB13726-14	JB13726-15	JB13726-16	JB13726-17	JB13726-18
Date Sampled:			8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Metals Analysis</b>												
Aluminum	mg/kg	-	6500	7020	9860	4160	4910	14500	6890	10700	7320	10500
Antimony	mg/kg	-	<2.3	<2.2	<2.1	<2.0	<2.1	<2.3	<2.4	<2.4	<2.5	<2.6
Arsenic	mg/kg	13	5.9	<2.2	3.4	<2.0	2.4	4.1	9.3	4.4	3.6	5.1
Barium	mg/kg	350	199	42.5	61.3	25.5	33.8	53.4	334	107	138	104
Beryllium	mg/kg	7.2	0.25	0.32	0.76	0.24	0.24	0.59	0.73	0.47	0.46	1.5
Cadmium	mg/kg	2.5	1	<0.54	<0.54	<0.51	<0.52	<0.58	1.7	<0.60	<0.62	<0.65
Calcium	mg/kg	-	2140	1130	8030	1400	1810	2080	9620	3390	4430	2800
Chromium	mg/kg	-	16.4	15.2	30.5	9.6	11.3	16.7	19.3	24.7	14	34.1
Cobalt	mg/kg	-	6	<5.4	12.6	<5.1	<5.2	5.9	8.8	6.8	<6.2	20
Copper	mg/kg	50	4100	14.2	90.5	11.5	66.3	18.6	174	51.4	24.4	174
Iron	mg/kg	-	23800	11600	21000	9960	9310	17500	16500	15300	14200	21600
Lead	mg/kg	63	426	8.3	86.3	7.9	90.4	50.4	765	203	386	239
Magnesium	mg/kg	-	1780	2270	3610	1800	2480	3020	2550	2720	1880	3010
Manganese	mg/kg	1600	325	527	362	278	172	289	249	168	269	325
Mercury	mg/kg	0.18	0.77	<0.034	0.034	<0.033	0.079	0.066	0.43	0.73	1.4	1.2
Nickel	mg/kg	30	16.1	12.5	17.9	9	9.6	11.7	25.2	15.1	9.9	33.1
Potassium	mg/kg	-	<1100	<1100	1240	<1000	<1000	<1200	1460	1290	<1200	<1300
Selenium	mg/kg	3.9	<2.3	<2.2	<2.1	<2.0	<2.1	<2.3	<2.4	<2.4	<2.5	<2.6
Silver	mg/kg	2	<0.57	<0.54	<0.54	<0.51	<0.52	<0.58	<0.60	<0.60	<0.62	<0.65
Sodium	mg/kg	-	<1100	<1100	<1100	<1000	<1000	<1200	<1200	<1200	<1200	<1300
Thallium	mg/kg	-	<1.1	<1.1	<1.1	<1.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.3
Vanadium	mg/kg	-	22	18.3	29.3	15.4	15.4	24.9	24.7	27.9	20.6	28
Zinc	mg/kg	109	445	29.8	554	20	55.6	34.7	781	119	169	1320

**Notes**

All results given in milligrams per kilogram (mg/kg)

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the quantitative, method reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	SB-10(0-2)	SB-10(6-8)	SB-11 ALT(0-2)	SB-11 ALT(10-12)	SB-12(0-2) ALT	SB-12(10-12)ALT	SB-13(0-2)	SB-13(12-14)	SB-14(0-2)	SB-14(12-14)
Lab Sample ID:			JB13726-19	JB13726-20	JB13726-21	JB13726-22	JB13726-23	JB13726-24	JB13726-25	JB13726-26	JB13726-27	JB13726-28
Date Sampled:			8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/13/2012	8/13/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Metals Analysis</b>												
Aluminum	mg/kg	-	13500	13000	6780	6600	6070	11200	9330	18200	8740	15700
Antimony	mg/kg	-	<2.4	<3.2	<2.2	<2.3	<2.2	<2.3	<2.3	<2.7	<2.3	<2.5
Arsenic	mg/kg	13	4.8	5.5	2.2	7.4	3	3.1	14.2	3.1	16	2.6
Barium	mg/kg	350	78.4	99.8	44.7	260	32.5	55.8	492	154	2790	76.4
Beryllium	mg/kg	7.2	0.51	0.52	0.38	0.39	0.37	0.57	0.66	0.88	0.6	0.75
Cadmium	mg/kg	2.5	<0.61	<0.79	<0.54	2.6	<0.56	<0.57	1.7	<0.67	1.4	<0.63
Calcium	mg/kg	-	1840	4280	1240	3980	823	1890	10600	4540	13300	2190
Chromium	mg/kg	-	23.5	24.9	13.2	23	16.1	24.1	22.9	42.3	21.7	33.8
Cobalt	mg/kg	-	<6.1	<7.9	5.4	<5.7	<5.6	8.4	<5.9	10.8	<5.8	8.6
Copper	mg/kg	50	27	30	14.7	86.7	14.5	14.7	130	30.6	107	24.4
Iron	mg/kg	-	14700	17400	11900	13700	11600	19000	18700	27600	15600	22000
Lead	mg/kg	63	358	203	32.3	837	16.4	7.3	847	9.8	1310	10.9
Magnesium	mg/kg	-	3090	3030	1780	2700	1510	3110	2950	9010	2030	6190
Manganese	mg/kg	1600	138	320	247	264	245	425	363	765	245	391
Mercury	mg/kg	0.18	0.56	1.8	<0.035	0.55	<0.033	0.28	0.45	<0.043	1.8	<0.041
Nickel	mg/kg	30	15.3	15.2	11.5	18.9	14.1	18.6	16.6	36.1	14.3	29.6
Potassium	mg/kg	-	1320	<1600	<1100	<1100	<1100	1560	<1200	5550	<1200	2370
Selenium	mg/kg	3.9	<2.4	<3.2	<2.2	<2.3	<2.2	<2.3	2.6	<2.7	3.3	<2.5
Silver	mg/kg	2	<0.61	<0.79	<0.54	0.9	<0.56	<0.57	1	<0.67	3.1	<0.63
Sodium	mg/kg	-	<1200	<1600	<1100	<1100	<1100	<1100	<1200	<1300	<1200	<1300
Thallium	mg/kg	-	<1.2	<1.6	<1.1	<1.1	<1.1	<1.1	<1.2	<1.3	<1.2	<1.3
Vanadium	mg/kg	-	28.1	29.1	19.2	37.2	24.2	32.9	28.7	51.9	26.9	43.9
Zinc	mg/kg	109	77.8	124	33.8	588	25.8	35	697	80.2	1140	74.1

**Notes**

All results given in milligrams per kilogram (mg/kg)

Results Compared to New York State Department of Environmental Conservation, Division of Environmental Remediation 6 NYCRR PART 375 Unrestricted Use Soil Cleanup Objectives

**Bold/highlighted values exceeded the NYSDEC Part 375 UUSCO - Unrestricted Use**

ND = Not Detected

NS = No Standard

J = Data indicates the presence of a compound less than the qualitative, reporting detection limit (RDL) but greater than the quantitative, method detection limit (MDL). Therefore, the result is estimated.



# **APPENDIX A**

*2012 Phase I Report*

**Phase I  
Environmental Site Assessment**

**Long Island City Property  
Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41  
Queens, New York 11101**

**Fleming-Lee Shue Project Number: 10020-001**

Inspection Date: June 13, 2012

Issue Date: July 3, 2012



**July 2012**

**Prepared For:**

Rockrose Development Corp.  
666 Fifth Avenue, 5<sup>th</sup> Floor  
New York, NY 10103

**Prepared By:**



158 West 29<sup>th</sup> Street, 9<sup>th</sup> Fl.  
New York, NY 10001  
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July 3, 2012

Rockrose Development Corp.  
666 Fifth Avenue, 5<sup>th</sup> Floor  
New York, NY 10103

**RE: Long Island City Property  
Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41  
Queens, New York 11101**

Fleming Lee Shue in association with Velocity Consulting, Inc. (the investigative parties) were engaged by Rockrose Development Corp. to conduct a Phase I Environmental Site Assessment (ESA) on the above-referenced property. The Phase I ESA was conducted in accordance with ASTM E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 part of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

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Arnold F. Fleming  
Environmental Professional

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Laura DiGiovanni  
Velocity Consulting, Inc.

## Executive Summary

The Executive Summary is a summation of the overall conditions of the property and should not be used as a stand-alone document. This Executive Summary does not contain all of the information that is found in the full Phase I ESA report. The Phase I ESA report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

Fleming-Lee Shue, Inc., in association with Velocity Consulting, Inc. (the investigative parties), performed a Phase I Environmental Site Assessment (ESA) of the property located at Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41, New York City, Queens County, New York, 11101. The 13 lots cover the majority of a city block and collectively cover an area of 67,009 square feet. The subject property is bound by Jackson Avenue to the south, Hunter Street to the north, 43<sup>rd</sup> Avenue to the east, and 44<sup>th</sup> Drive to the west. The subject property is developed with 13 structures that range from one to three stories in height. The majority of the buildings are vacant; a few are used as temporary art studios, gallery spaces, and residential units. There are redevelopment plans for the subject property that include the demolition of some of the structures and the renovation of others. A site plan depicting the layout of the subject property and salient features is in Appendix A. Descriptions of the individual lots are below.

Lot 2 is known as 26-25 Jackson Avenue, covers an area of 2,000 square feet, and is developed with a 3-story 2,400-square foot building with a basement and a rear yard. The building is constructed of brick masonry bearing walls with wood joists, a concrete basement floor, and wood upper floors. At the time of the site visit, the building was vacant. The ground floor was under renovation and the second and third floors consisted of one vacant apartment per floor. Interior building materials include drywall walls and ceilings, and hardwood floors covered with ceramic and vinyl tile. Two inactive 275-gallon fuel oil aboveground storage tanks (ASTs) were observed in the basement. The basement and 3<sup>rd</sup> floor suffer from water damage and have moderate areas of mold growth. This building was constructed prior to 1898 and appears to have always been utilized for commercial/retail purposes on the ground floor with apartments on the upper floors. This building is scheduled for renovation.

Lot 4 is known as 26-21 Jackson Avenue, covers an area of 2,000 square feet, and is developed with a 3-story 3,500-square foot building with a basement and a rear yard. The building is constructed of brick masonry bearing walls with wood joists, a concrete basement and first floor, and wood upper floors. At the time of the site visit, the building was vacant. The ground floor appeared to have been used for commercial purposes and the second and third floors consisted of one vacant apartment per floor. Interior building materials include drywall walls and ceilings, and hardwood floors covered with ceramic and vinyl tile. A sump pit and floor drain were observed in the basement; neither had evidence of chemical staining. This building was constructed between 1915 and 1936 and appears to

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**Long Island City Property**  
**Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41**  
**Queens, New York 11101**

have always been utilized for commercial/retail purposes on the ground floor with apartments on the upper floors. This building is scheduled for renovation.

Lot 5 is known as 26-19 Jackson Avenue, covers an area of 2,500 square feet, and is developed with a 2-story 5,050-square foot building with a basement. The building is constructed of concrete block and brick bearing walls with a brick veneer exterior, exposed steel beams in the basement, and concrete floors. At the time of the site visit, the ground floor was being utilized as a temporary art space and the second floor was inaccessible due to the lack of a staircase. Interior building materials include drywall walls, hardwood floors, and vinyl floor tiles. The basement suffers from water damage and areas of mold growth were observed. This building was constructed in 1960 and was previously utilized as an auto transmission company. Prior to 1960, this lot was developed with a 4-story structure. This building is scheduled for renovation.

Lot 6 is known as 26-15 Jackson Avenue, covers an area of 4,267 square feet, and is developed with a 1-story 3,433-square foot building with a partial basement beneath a small asphalt front loading court/area. The building is constructed of concrete block and brick bearing walls, concrete floors with some areas of vinyl floor tile, and a wood ceiling. The partial basement is located beneath the front loading court/area and has a wood-framed ceiling. At the time of the site visit, the building was vacant. Interior markings on the rear portion of the ground floor suggest the location of a former hydraulic lift. A parts washer, a catch basin floor drain and two empty 55-gallon drums were located on the 1<sup>st</sup> floor. A third empty 55-gallon drum and a solid waste dumpster were located in the front loading area. No areas of staining or previous spills were noted. Two inactive 275-gallon fuel oil ASTs were observed in the basement. This building was constructed in 1958 and was occupied by auto-related businesses since 1977. Prior to 1958 this lot was developed with a 3-story dwelling/store. This building is scheduled for renovation.

Lot 8 is known as 26-09 and 26-11 Jackson Avenue, covers an area of 6,450 square feet, and is developed with two 2-story buildings with basements that contain a total area of 15,500 square feet. Both buildings are constructed of brick and masonry bearing walls, concrete basement floors, steel beams in the basements, wood upper floors with vinyl tiles in some areas, wood ceilings, and drywall wall partitions. The 26-09 Jackson Avenue building is occupied as a temporary art studio/theater. The 26-11 Jackson Avenue building is under renovation to be occupied as model apartment units. Two inactive 275-gallon fuel oil ASTs were observed in the basement of 26-09 Jackson Avenue. An approximate 1,000-gallon fuel oil AST is located in the basement of 26-11 Jackson Avenue. This AST was encased with concrete with weepholes located at the base of the tank enclosure. These buildings were constructed in 1956 and were occupied as auto-related businesses since 1991. These buildings are scheduled for renovation.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
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Lot 12 is known as 20-25 and 25-25 44<sup>th</sup> Drive, covers an area of 20,000 square feet, and is developed with a 1-story 4,320-square foot building with a basement. The building is constructed of a steel frame with concrete floors, concrete and corrugated metal ceilings, and a brick and glass exterior. The building was constructed in 1963, was originally occupied as a bank, and is currently occupied as an art gallery and office space. The building is heated and cooled by package HVAC units situated on the roof. The remainder of the lot consists of an asphalt-paved parking lot enclosed by a chain link and wood fence. Landscaping is located along the southern perimeter of the lot. Prior to 1963 and as early as 1898, this lot was undeveloped. This building is scheduled for demolition.

Lot 31 is known as 43-25 Hunter Street, covers an area of 14,292 square feet, and is developed with a 2-story 20,000-square foot building. The building is constructed of a steel frame with concrete floors, concrete ceilings, and a brick exterior. The building was constructed in 1960 as a commercial loft building. Prior to 1960 and as early as 1898, this lot was undeveloped. This lot has frontage on the south side of Hunter Street and the north side of Jackson Avenue. The building is currently vacant and was most recently occupied as a medical diagnostic laboratory by Central Laboratories Inc. Abandoned equipment at this building suggests the presence of a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer. The equipment includes an approximate 100-gallon holding tank, 5-gallon process tanks labeled as sodium hydroxide and hydrochloric acid, and a control panel for acid and caustic pumps. The majority of the laboratory sinks were equipped with collection systems on their sanitary discharge plumbing. The tanks and treatment equipment appeared in good condition and free of visible leaks. Laboratory-sized containers of absorbants and neutralizers for acid spills were observed in this building. Several locked closets labeled as chemical storage were present on the lower level of the building. Unidentified rust-colored liquids were observed to be stored in one-gallon containers of bleach, motor oil, and beverage containers in an empty room on the lower level of the laboratory building. Locked walk-in refrigeration units were present on the lower level of the building. The building is heated and cooled by package HVAC units situated on the roof. A driveway and loading dock area are present on the southern perimeter of the lot along Jackson Avenue. The driveway is secured with a chain like fence and gate. This building is scheduled for demolition.

Lot 35 is known as 43-15 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,992-square foot vacant building with a basement and a rear yard. The building is constructed of wood framing with a concrete basement floor, brick bearing walls, and a wood exterior. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with carpeting and vinyl tile. The building was constructed in 1923, is currently vacant, and appears to have always been used for residential purposes.

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**Long Island City Property**  
**Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41**  
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An inactive 275-gallon fuel oil AST was observed in the basement. The 2<sup>nd</sup> floor suffers from water damage and has moderate areas of mold growth. This building was in a state of disrepair and is scheduled for demolition.

Lot 36 is known as 43-11 Hunter Street, covers an area of 2,500 square feet, and is developed with a 1-story 680-square foot vacant building with a basement and a rear yard. The building is constructed of wood framing with a concrete basement floor, and an exterior of composition shingles. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with vinyl tile. The building was constructed prior to 1898, is currently vacant, was originally occupied as a dwelling, was later occupied as an office, and appears to have recently been used as a contractor's office. This building was in a state of disrepair and is scheduled for demolition.

Lot 37 is known as 43-09 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,900-square foot 2-unit residential building with a basement and a rear yard. The building has a masonry and brick exterior. This building is occupied by residential tenants and access to this building was not provided. The building was constructed between 1936 and 1947, and appears to have always been used for residential purposes. Prior to 1936, this lot was developed with a dwelling. This building is scheduled for demolition.

Lot 38 is known as 27-02 43<sup>rd</sup> Avenue, covers an area of 2,000 square feet, and is developed with a 2-story 4,000-square foot building with a basement. The building has a masonry and brick exterior covered with stucco. Access to this building was not provided. This building has a sign that reads "Hunter Auto Sales and Service", appears to be occupied as an auto repair shop, and has three garage bay doors located on its northern façade along Hunter Avenue. The building was constructed in 1934, and has a history of auto-related and manufacturing use. Prior to 1934, this lot was developed with two dwellings. This building is scheduled for demolition.

Lot 39 is known as 27-06 43<sup>rd</sup> Avenue, covers an area of 4,000 square feet, and is developed with a 1-story 4,000-square foot garage building with a small basement vault. The building is constructed of concrete block and brick bearing walls, concrete floors, a wood ceiling, and some plaster interior walls. Two large bay doors are present on the eastern side of the building along 43<sup>rd</sup> Avenue. At the time of the site visit, the building was vacant. A manhole and interior markings on the concrete floor suggest the presence of a former hydraulic lift, oil/water separator, or underground storage tank (UST). A shallow rectangular concrete pit was observed on the ground floor. The purpose of the pit is unknown but is assumed to be associated with former automotive maintenance activities. No areas of staining or previous spills were noted. An inactive 275-gallon fuel oil AST is located in the basement vault. This building was constructed in 1949 and

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**Long Island City Property**  
**Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41**  
**Queens, New York 11101**

has a history of auto-related use. Prior to 1949 and as early as 1898, this lot was undeveloped. This building is scheduled for demolition.

Lot 41 is known as 27-10 43<sup>rd</sup> Avenue, covers an area of 2,000 square feet, and is developed with a 1-story 2,250-square foot garage building with a small partial basement. The building is constructed of concrete block and brick bearing walls, concrete floors, and a wood ceiling. A large bay door is present on the eastern side of the building along 43<sup>rd</sup> Avenue. At the time of the site visit, the building was occupied as a temporary art studio. A floor drain was observed on the concrete 1<sup>st</sup> floor area. No areas of staining or previous spills were noted. An inactive boiler and 275-gallon AST were observed in the partial basement. This building was constructed in 1928 and has a history of auto-related and manufacturing use. Prior to 1928 and as early as 1898, this lot was undeveloped. This building is scheduled for demolition.

The historical sources reviewed show auto-related businesses on the subject property at Lot 38, Lot 39, Lot 41, Lot 5, Lot 6, and Lot 8; an unspecified manufacturing use on Lot 8; a metal products manufacturer and chemical company on Lot 38; a sheet metal company on Lot 41; and a medical laboratory on Lot 31. These findings are consistent with the observations made during the site visit. Lot 38 appears to still be utilized for auto-related use.

The historical auto-related, manufacturing, and laboratory uses of the subject property began operation at a time period that predates regulatory oversight for the storage and disposal of petroleum/chemicals and waste, reporting requirements for spills and releases, and investigation and cleanup requirements for contamination. Therefore the time period at which the former businesses at the subject property began operation (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these previous uses a recognized environmental condition (REC) that will warrant further action.

During the site visit, auto-related businesses were observed to the south and east of the subject property. A Gas Trac gasoline filling station is located across the street to the east of the subject property. A gasoline filling station has been present at this location since circa 1970. The regulatory database review shows that in 2000 Gas Trac (known then as Gas Go) removed ten 550-gallon fuel oil underground storage tanks (USTs) and approximately 700 tons of petroleum-impacted soil from its premises. The UST and soil removal activities were overseen and granted closure by the New York State Department of Environmental Conservation (NYSDEC) under Spill #9913082.

None of the remaining nearby auto-related businesses are listed on the regulatory databases reviewed as having had any spills or releases with the potential to impact the subject property (see Section 4.1). The historical sources reviewed show numerous auto-related uses and commercial properties with gasoline tanks to the north, south, and east of

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**Long Island City Property**  
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the subject property; these businesses include those that were observed during the site visit to the south and east.

These nearby auto-related businesses and the adjacent gasoline filling station began operation at a time period that predates regulatory oversight for the storage and disposal of petroleum chemicals and petroleum waste, reporting requirements for spills and releases, and investigation and cleanup requirements for contamination. Therefore, the time period at which the nearby sites began operation (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these surrounding sites a REC that will warrant further action.

According to the USGS quadrangle, the topography of the subject property is relatively flat with an average elevation that of approximately 15 feet above mean sea level. Topographic slopes in the general vicinity of the property are towards the west. The nearest surface water bodies are Dutch Kills (off of the Newton Creek), which is located approximately 0.30 miles to the south-southeast, and the East River, which is located approximately 0.75 miles to the west of the subject property. Based on the surface topography, it is estimated that the groundwater flow direction in the site area may be similar to surface drainage patterns, which is to the west.

A search of federal and state databases was conducted for the subject property and surrounding area within the approximate minimum search distance as specified by ASTM E 1527-05. The subject property is listed on the NYSDEC Spills Database for two minor releases of petroleum in 1998 and 2001 at 43-09 Hunter Street (Spills #0105318 and #9809062). Both releases were addressed and granted NYSDEC closure. Based on their closed status, these two spill incidences are not an issue of concern.

The subject property is also listed on the NYSDEC Institutional Control/Engineering Control (IC/EC) Database for the entire subject property Tax Block 433 and Tax Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41. The listing is a New York City Office of Environmental Remediation (NYCOER) Environmental Declaration (E-Designation) for USTs and for Window Wall Attenuation and Alternate Ventilation. The E-Designation will restrict the submittal of applications to the New York City Department of Buildings (NYCDOB) for site redevelopment unless NYCOER approval has been obtained. Approval by the NYCOER typically includes subsurface investigative activities and possibly cleanup activities. The listing of the subject property as an E-Designated site is a REC that will warrant further action if the property is to be redeveloped.

The regulatory database review identified the following four nearby sites that have the potential to impact the subject property and are RECs:

- A NYSDEC Voluntary Cleanup Program (VCP) Database site known as Outlet City Queens Boulevard and Jackson Avenue (Site #V00081) is located approximately 0.14 miles to the northeast and upgradient from the subject property. Soil and groundwater at this site is contaminated with creosote, petroleum, and solvents.

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- A NYSDEC Brownfields Site known as Queens Plaza Residential Development (Site #C241105) is located approximately 0.15 miles to the east of and upgradient from the subject property. This site is a subset of the aforementioned NYSDEC VCP Database site (Site #V0081).
- A NYSDEC Brownfields Site known as Former Neptune Meter Site (Site #C241138) is located approximately 0.20 miles to the east of and upgradient from the subject property. Soils at this site have been impacted with VOCs, SVOCs, and metals. No groundwater or soil vapor data is available for this site.
- A NYSDEC Registered Storage Tank (RST) site known as GasGo Petroleum at 27-01 Jackson Avenue (the current Gas Trac gasoline filling station located across the street to the east) has four active 4,000-gallon gasoline USTs that were installed in 2000, and ten 550-gallon gasoline USTs that were installed in 1966 and removed in 2000. As discussed earlier, this adjacent gasoline station has been operating at this location since 1970 and is a REC due to its long history of petroleum use that predates environmental regulations.

None of the other sites identified on the regulatory databases searched for this assessment were determined to be RECs.

### **Summary of ASTM RECs and Environmental Concerns.**

#### ASTM Recognized Environmental Conditions

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- The historical sources reviewed show auto-related businesses on the subject property at Lot 38, Lot 39, Lot 41, Lot 5, Lot 6, and Lot 8; an unspecified manufacturing use on Lot 8; a metal products manufacturer and chemical company on Lot 38; a sheet metal company on Lot 41; and a medical laboratory on Lot 31. Therefore, the time period at which the former businesses on-site began operation (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these previous uses a REC that will warrant further action.
- The historical sources reviewed show numerous auto-related uses and commercial properties with gasoline tanks to the north, south, and east of the subject property. During the site visit, auto-related businesses were observed to the south and east of the subject property. A Gas Trac gasoline filling station is located across the street to the east of the subject property. A gasoline filling station has been present at this location since circa 1970. The regulatory database review shows that in 2000 Gas Trac (known then as Gas Go) removed ten 550-gallon fuel oil USTs and approximately 700 tons of petroleum-impacted soil from its premises. The UST and soil removal activities were overseen and granted closure by the NYSDEC under Spill #9913082. The time period at which the nearby sites began operation (prior to regulatory oversight), and the general tendency of these

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operations to negatively impact a property, make these surrounding sites a REC that will warrant further action.

- The subject property has a NYCOER E-Designation for USTs and for Window Wall Attenuation and Alternate Ventilation. The E-Designation will restrict the submittal of applications to the NYCDOB for site redevelopment unless NYCOER approval has been obtained. Approval by the NYCOER typically includes subsurface investigative activities and possibly cleanup activities. The listing of the subject property as an E-Designated site is a REC that will warrant further action if the property is to be redeveloped.
- The regulatory database review identified the following four nearby sites that have the potential to impact the subject property and are RECs:
  1. A NYSDEC VCP Database site known as Outlet City Queens Boulevard and Jackson Avenue (Site #V00081) is located approximately 0.14 miles to the northeast and upgradient from the subject property. Soil and groundwater at this site is contaminated with creosote, petroleum, and solvents.
  2. A NYSDEC Brownfields Site known as Queens Plaza Residential Development (Site #C241105) is located approximately 0.15 miles to the east of and upgradient from the subject property. This site is a subset of the NYSDEC VCP Database site above.
  3. A NYSDEC Brownfields Site known as Former Neptune Meter Site (Site # C241138) is located approximately 0.20 miles to the east of and upgradient from the subject property. Soils at this site have been impacted with VOCs, SVOCs, and metals. No groundwater or soil vapor data is available for this site.
  4. A NYSDEC RST site known as GasGo Petroleum at 27-01 Jackson Avenue (the current Gas Trac gasoline filling station across the street to the east) has four active 4,000-gallon gasoline USTs that were installed in 2000, and ten 550-gallon gasoline USTs that were installed in 1966 and removed in 2000. As discussed earlier, this adjacent gasoline station has been operating at this location since 1970 and is a REC due to its long history of petroleum use that predates environmental regulations.
- An unlabeled manway was observed on the concrete floor of the 1-story garage building on Lot 39. The manway suggests the presence of an oil/water separator or an UST. The potential presence of a UST or oil/water separator on this lot is a REC that warrants further action.
- Interior markings on the rear portion of the ground floor of Lot 6 suggest the location of a former hydraulic lift. Lots 8, 38, 39, and 41 also have a history of auto repair use. Hydraulic lifts may have been located in the structures on these lots. The potential presence of hydraulic lifts on the subject property is a REC.
- Nine inactive fuel oil aboveground storage tanks (ASTs) were observed in the basement areas on-site. Based on their inactive status and that the structures on-site are all scheduled to be either renovated or demolished, these ASTs are a REC that warrants further action.

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- Three abandoned 55-gallon drums were observed at the building on Lot 6. Numerous abandoned small containers of absorbants, neutralizers for acid spills, and unidentified substances were observed in the laboratory building on Lot 31. Several locked closets labeled as chemical storage were present on the lower level of the laboratory building on Lot 31. In addition, abandoned equipment at the laboratory building on Lot 31 suggests the presence of a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer. The equipment includes a large approximate 100-gallon holding tank, 5-gallon tanks labeled as sodium hydroxide and hydrochloric acid, and a control panel for acid and caustic pumps. These abandoned chemical containers and equipment are a REC.

Non-ASTM Environmental Concerns

This assessment identified evidence of environmental concerns associated with the following non-ASTM scope considerations:

- All of the buildings are known to have been constructed prior to 1978 and have the potential to contain asbestos-containing materials. Friable suspect asbestos-containing (SAC) pipe insulation was observed on pipes on the first floor of the building on Lot 8 (26-11 Jackson Avenue). Non-friable SAC vinyl floor tiles and friable SAC acoustic ceiling tiles were observed in various areas throughout the buildings. The roofing materials are assumed to be a SAC material.
- Fluorescent light ballasts were identified throughout the buildings. Based on the age of the structures, it is possible that PCBs may be present in the ballasts.
- Based on the age of the structures, it is possible that lead-based paint may be present.

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# 1.0 INTRODUCTION

Fleming-Lee Shue, Inc., in association with Velocity Consulting, Inc. (the investigative parties), performed a Phase I Environmental Site Assessment (ESA) of the property located at Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41, New York City, Queens County, New York, 11101. The 13 lots cover the majority of a city block and collectively cover an area of 67,009 square feet. The subject property is bound by Jackson Avenue to the south, Hunter Street to the north, 43<sup>rd</sup> Avenue to the east, and 44<sup>th</sup> Drive to the west. The subject property is developed with 13 structures that range from one to three stories in height. The majority of the buildings are vacant; a few are used as temporary art studios, gallery spaces, and residential units. There are redevelopment plans for the subject property that include the demolition of some of the structures and the renovation of others. A detailed description of the property and improvements is in Sections 2.4 and 2.5.

With the exception of the items noted in Sections 1.2 and 1.4 of this report, the Phase I ESA was conducted in general accordance with the ASTM E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

## 1.1 PURPOSE

The purpose of this assessment, as limited by its scope and consistent with good commercial and customary practice, is to assist Rockrose Development Corp. in identifying the recognized environmental conditions associated with the subject property, using all appropriate inquiry into the previous ownership and uses of the property. Specifically, the report seeks to identify recognized environmental conditions on and near the property, and to review reasonably ascertainable and practically reviewable records of those areas that may adversely impact the property owner or operator.

As per the ASTM E 1527-05 Standard, the term *recognized environmental conditions* means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*.

## **1.2 SCOPE OF SERVICES**

The scope of work completed for this evaluation included the following:

- Documenting the physical characteristics of the site through a review of available topographic, geologic, wetland, flood plain, groundwater data and Site observations.
- Researching the site history through a review of reasonably ascertainable standard sources such as land deeds, fire insurance maps, city directories, aerial photographs, prior reports and interviews.
- Documenting current site conditions by observations and interviews regarding the presence or absence of hazardous substances/petroleum products; the generation, treatment, storage, or disposal of hazardous, regulated, or medical wastes; the presence of electrical equipment that utilizes oils which potentially contain PCBs; and the presence of storage tanks (above and below ground).
- Determining the usage of adjoining and nearby properties to identify the likelihood for environmental conditions (if present and/or suspected) and concerns of migration onto the Site.
- An evaluation of information contained within federal and state environmental databases and other local environmental records, within specific search distances.

The following environmental issues that are outside the scope of (additions to) ASTM E 1527-05 were also evaluated:

- A review of available radon data for the site vicinity
- A review of available wetlands data
- A visual assessment for water damage and mold
- A visual assessment for suspect asbestos-containing materials
- A visual assessment for suspect lead-based paint
- An assessment of potential methane generation on-site or migration to the site
- Regulatory compliance
- Polychlorinated Biphenyls (PCBs) light ballasts and caulking materials
- Biological agents
- Air emissions from drycleaners and other industrial sources

## **1.3 SIGNIFICANT ASSUMPTIONS**

The investigative parties relied on information derived from secondary sources including governmental agencies, the client and/or User, designated representatives of the client and/or User, property contact, property owner, property owner representatives, computer

databases, and personal interviews. Except as set forth in this report, no independent investigation as to the accuracy and completeness of the information derived from these secondary sources was made and it is assumed that such information is accurate and complete.

An independent data research company provided the Standard Environmental Record Sources Review referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by observations or other credible referenced sources reviewed during the assessment. The investigative parties shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Groundwater flow and depth to groundwater, unless otherwise specified by on-property well data, are assumed based on contours depicted on the United States Geological Survey topographic maps.

It is assumed that the client and/or User, property owner, property manager, Key Site Manager, and their representatives and legal counsel, used good faith in answering questions and in obtaining information for the subject property as defined in 10.8 of the ASTM E 1527-05 Standard. This also includes obtaining relevant reports and documents from previous owners, operators, tenants, brokers, financial institutions etc.

The investigative parties assume the client has designated appropriate and knowledgeable people as site contacts, including Key Site Managers.

## **1.4 LIMITATIONS AND EXCEPTIONS**

The investigative parties have prepared this Phase I ESA report using reasonable efforts to identify *recognized environmental conditions* associated with hazardous substances or petroleum products at the property. Findings contained within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

As per Sections 4.5.1 and 4.5.2 of the ASTM E 1527-05 Standard, a Phase I ESA is not an exhaustive investigation of the property and environmental conditions on such property and a Phase I ESA cannot completely eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a property. Performance of the Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this Phase I ESA recognizes reasonable limits of time and cost.

This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

This report is not an environmental compliance survey and makes no representation or warranty that the past or current operations at the property are, or have been, in complete compliance with all applicable federal, state and local laws, regulations and codes. Regardless of the findings stated in this report, the investigative parties are not responsible for consequences or conditions arising from facts not fully disclosed during the assessment or from areas that access was not provided during the site reconnaissance.

This report is not a Vapor Intrusion Survey.

The investigative parties used reasonable efforts to identify evidence of aboveground and underground storage tanks, ancillary equipment, asbestos-containing materials, mold, and evidence of releases on the property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These reasonable efforts are non-destructive and do not include the disassembly or operation of equipment, or a survey of areas hidden from view by walls, ceilings, soffits, etc. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, snow cover, paving, construction activities, stored materials and landscaping.

The investigative parties are not a professional title insurance or land surveyor firm and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

The Environmental Professional Statement on page 2 of this report does not "certify" the findings contained in this report and is not a legal opinion of such *Environmental Professional*. The *Environmental Professional* Statement is intended to document the opinion that an individual meeting the qualifications of an Environmental Professional was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the *Environmental Professional* were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in ASTM E 1527-05 Standard and the scope of work for this assessment.

In accordance with the ASTM E 1527-05 Standard, this report is presumed to be valid for a six month period from the date of the site visit. If the report is older than six months,

the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet the ASTM E 1527-05 Standard and therefore, the entire report must be updated to reflect current conditions and property-specific information.

ASTM E1527-05 states that the User of an environmental site assessment may include, without limitation, a potential purchaser of the subject property, a potential tenant of the subject property, an owner of the subject property, a lender, or the manager of the subject property. Per Section 6 of the ASTM E 1527-05 Standard, User Responsibilities, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of *recognized environmental conditions* in connection with the property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The investigative parties make no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

Other limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

## **1.5 USE RELIANCE**

This report is addressed to Rockrose Development Corp., such other persons as may be designated by Rockrose Development Corp. and their expressive successors and assigns. Special conditions include; (i) the report may be relied upon by Rockrose Development Corp. in determining whether to make a loan evidenced by a note ("the Property Note") secured by the Property, (ii) the Report may be relied upon by any purchaser in determining whether to purchase the Property Note from Rockrose Development Corp. and any rating agency rating securities issued by or representing an interest in the Mortgage Note, (iii) the Report may be referred to in and included with materials offering for sale the Property Note or an interest in the Property Note, (iv) persons who acquire the Property Note or an interest in the Property Note may rely on the Report, (v) the Report speaks only as of its date in the absence of a specific written update of the Report signed and delivered by Fleming-Lee Shue and Velocity.

## **1.6 DATA GAPS**

ASTM E 1527-05 defines a data gap as a lack of or inability to obtain information required by the ASTM standard despite a good effort to gather such information. Data gaps may result from incompleteness in any of the activities required by the ASTM E

1527-05 Standard. The investigative parties encountered the following data gaps in preparation of this ESA report:

<b>Data Gap</b>	<b>Significance</b>	<b>Reference Section</b>
Lien search not conducted	Low – not likely to alter conclusions of ESA report	3.2
Site history not conducted back to a time when the subject property was undeveloped	Low – not likely to alter conclusions of ESA report	4.3

## 2.0 PROPERTY DESCRIPTION

<b>2.1 LOCATION</b>	
Property Name	Long Island City Property
Street Addresses	26-09, 11, 15, 19, 21, and 24 Jackson Avenue; 20-25 and 25-25 44 <sup>th</sup> Drive, 43-09, 11, and 15 Hunter Street; and 27-02, 06, and 10 43 <sup>rd</sup> Avenue
Borough	Queens (Long Island City area)
City	New York
County	Queens
State	New York
Tax ID	Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41 <sup>1</sup>
Reference	See Site Map in Appendix A
<b>2.2 STRUCTURE AND BUILDING MATERIALS</b>	
Structures On-Site	13 structures that range from one to three stories in height
Building Size	Individual buildings range from 680 square feet to 20,000 square feet; total interior area of all structures is 69,035 square feet <sup>2</sup>
Dates of Construction	1898-1963 <sup>2, 3, and 4</sup>
Number of Units	Not applicable, buildings are either vacant or have temporary tenants; buildings are scheduled for demolition or renovation
Building Construction	Steel and wood-framed structures with concrete and wood floors; concrete, plaster and drywall walls; and wood, concrete, plaster, drywall, and corrugated metal ceilings.
Exterior Construction	Masonry, brick, glass, wood siding, stucco, and composition shingles
Interior Construction	Interior finishing materials, where present, consist of vinyl floor tiles, carpeting, drywall and plaster walls and ceilings, and areas of acoustic ceiling tile.
Other Improvements	An asphalt-paved parking lot and landscaping on Lot 12; a paved drive, parking, and loading area on Lot 31; and a small paved loading area on Lot 6
<b>2.3 PHYSICAL CHARACTERISTICS</b>	
Property Shape	Irregular
Property Size	~67,009 square feet <sup>2</sup>
<b>2.4 UTILITIES AND HEATING</b>	
Water	New York City
Sanitary Sewer	New York City
Electric	Consolidated Edison Company of New York (Con Edison)
Gas	Con Edison
Heating Systems	Active systems include natural gas and electric overhead blower heaters and rooftop package HVAC units, and natural-gas boilers. Several oil boilers that appear to be inactive were also observed

<sup>1</sup>Information obtained Rockrose Development Corp.

<sup>2</sup>Information obtained from OasisNYC @ <http://www.oasisnyc.net/oasismap.htm>

<sup>3</sup>Information obtained from the New York City Department of Buildings (NYCDOB) Building Information System (BIS)

<sup>4</sup>Information inferred from Sanborn Fire Insurance maps

## 2.5 PROPERTY USE

The property is known as Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41, New York City, Queens County, New York, 11101. The 13 lots cover the majority of a city block and collectively cover an area of 67,009 square feet. The subject property is bound by Jackson Avenue to the south, Hunter Street to the north, 43<sup>rd</sup> Avenue to the east, and 44<sup>th</sup> Drive to the west. The subject property is developed with 13 structures that range from one to three stories in height. The majority of the buildings are vacant; a few are used as temporary art studios, gallery spaces, and residential units. There are redevelopment plans for the subject property that include the demolition of some of the structures and the renovation of others. A site plan depicting the layout of the subject property and salient features is in Appendix A. Descriptions of the individual lots are below.

Lot 2 is known as 26-25 Jackson Avenue, covers an area of 2,000 square feet, and is developed with a 3-story 2,400-square foot building with a basement and a rear yard. The building is constructed of brick masonry bearing walls with wood joists, a concrete basement floor, and wood upper floors. At the time of the site visit, the building was vacant. The ground floor was under renovation and the second and third floors consisted of one vacant apartment per floor. Interior building materials include drywall walls and ceilings, and hardwood floors covered with ceramic and vinyl tile. Two inactive 275-gallon fuel oil aboveground storage tanks (ASTs) were observed in the basement. The basement and 3<sup>rd</sup> floor suffer from water damage and have moderate areas of mold growth. This building was constructed prior to 1898 and appears to have always been utilized for commercial/retail purposes on the ground floor with apartments on the upper floors. This building is scheduled for renovation.

Lot 4 is known as 26-21 Jackson Avenue, covers an area of 2,000 square feet, and is developed with a 3-story 3,500-square foot building with a basement and a rear yard. The building is constructed of brick masonry bearing walls with wood joists, a concrete basement and first floor, and wood upper floors. At the time of the site visit, the building was vacant. The ground floor appeared to have been used for commercial purposes and the second and third floors consisted of one vacant apartment per floor. Interior building materials include drywall walls and ceilings, and hardwood floors covered with ceramic and vinyl tile. A sump pit and floor drain were observed in the basement; neither had evidence of chemical staining. This building was constructed between 1915 and 1936 and appears to have always been utilized for commercial/retail purposes on the ground floor with apartments on the upper floors. This building is scheduled for renovation.

Lot 5 is known as 26-19 Jackson Avenue, covers an area of 2,500 square feet, and is developed with a 2-story 5,050-square foot building with a basement. The building is constructed of concrete block and brick bearing walls with a brick veneer exterior, exposed steel beams in the basement, and concrete floors. At the time of the site visit, the

ground floor was being utilized as a temporary art space and the second floor was inaccessible due to the lack of a staircase. Interior building materials include drywall walls, hardwood floors, and vinyl floor tiles. The basement suffers from water damage and areas of mold growth were observed. This building was constructed in 1960 and was previously utilized as an auto transmission company. Prior to 1960, this lot was developed with a 4-story structure. This building is scheduled for renovation.

Lot 6 is known as 26-15 Jackson Avenue, covers an area of 4,267 square feet, and is developed with a 1-story 3,433-square foot building with a partial basement beneath a small asphalt front loading court/area. The building is constructed of concrete block and brick bearing walls, concrete floors with some areas of vinyl floor tile, and a wood ceiling. The partial basement is located beneath the front loading court/area and has a wood-framed ceiling. At the time of the site visit, the building was vacant. Interior markings on the rear portion of the ground floor suggest the location of a former hydraulic lift. A parts washer, a catch basin floor drain and two empty 55-gallon drums were located on the 1<sup>st</sup> floor. A third empty 55-gallon drum and a solid waste dumpster were located in the front loading area. No areas of staining or previous spills were noted. Two inactive 275-gallon fuel oil ASTs were observed in the basement. This building was constructed in 1958 and was occupied by auto-related businesses since 1977. Prior to 1958 this lot was developed with a 3-story dwelling/store. This building is scheduled for renovation.

Lot 8 is known as 26-09 and 26-11 Jackson Avenue, covers an area of 6,450 square feet, and is developed with two 2-story buildings with basements that contain a total area of 15,500 square feet. Both buildings are constructed of brick and masonry bearing walls, concrete basement floors, steel beams in the basements, wood upper floors with vinyl tiles in some areas, wood ceilings, and drywall wall partitions. The 26-09 Jackson Avenue building is occupied as a temporary art studio/theater. The 26-11 Jackson Avenue building is under renovation to be occupied as model apartment units. Two inactive 275-gallon fuel oil ASTs were observed in the basement of 26-09 Jackson Avenue. An approximate 1,000-gallon fuel oil AST is located in the basement of 26-11 Jackson Avenue. This AST was encased with concrete with weepholes located at the base of the tank enclosure. These buildings were constructed in 1956 and were occupied as auto-related businesses since 1991. These buildings are scheduled for renovation.

Lot 12 is known as 20-25 and 25-25 44<sup>th</sup> Drive, covers an area of 20,000 square feet, and is developed with a 1-story 4,320-square foot building with a basement. The building is constructed of a steel frame with concrete floors, concrete and corrugated metal ceilings, and a brick and glass exterior. The building was constructed in 1963, was originally occupied as a bank, and is currently occupied as an art gallery and office space. The building is heated and cooled by package HVAC units situated on the roof. The remainder of the lot consists of an asphalt-paved parking lot enclosed by a chain link and wood fence. Landscaping is located along the southern perimeter of the lot. Prior to 1963 and as early as 1898, this lot was undeveloped. This building is scheduled for demolition.

Lot 31 is known as 43-25 44<sup>th</sup> Hunter Street, covers an area of 14,292 square feet, and is developed with a 2-story 20,000-square foot building. The building is constructed of a steel frame with concrete floors, concrete ceilings, and a brick exterior. The building was constructed in 1960 as a commercial loft building. Prior to 1960 and as early as 1898, this lot was undeveloped. This lot has frontage on the south side of Hunter Street and the north side of Jackson Avenue. The building is currently vacant and was most recently occupied as a medical diagnostic laboratory by Central Laboratories Inc. Abandoned equipment at this building suggests the presence of a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer. The equipment includes an approximate 100-gallon holding tank, 5-gallon process tanks labeled as sodium hydroxide and hydrochloric acid, and a control panel for acid and caustic pumps. The majority of the laboratory sinks were equipped with collection systems on their sanitary discharge plumbing. The tanks and treatment equipment appeared in good condition and free of visible leaks. Laboratory-sized containers of absorbants and neutralizers for acid spills were observed in this building. Several locked closets labeled as chemical storage were present on the lower level of the building. Unidentified rust-colored liquids were observed to be stored in one-gallon containers of bleach, motor oil, and beverage containers in an empty room on the lower level of the laboratory building. Locked walk-in refrigeration units were present on the lower level of the building. The building is heated and cooled by package HVAC units situated on the roof. A driveway and loading dock area are present on the southern perimeter of the lot along Jackson Avenue. The driveway is secured with a chain like fence and gate. This building is scheduled for demolition.

Lot 35 is known as 43-15 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,992-square foot vacant building with a basement and a rear yard. The building is constructed of wood framing with a concrete basement floor, brick bearing walls, and a wood exterior. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with carpeting and vinyl tile. The building was constructed in 1923, is currently vacant, and appears to have always been used for residential purposes. An inactive 275-gallon fuel oil AST was observed in the basement. The 2<sup>nd</sup> floor suffers from water damage and has moderate areas of mold growth. This building was in a state of disrepair and is scheduled for demolition.

Lot 36 is known as 43-11 Hunter Street, covers an area of 2,500 square feet, and is developed with a 1-story 680-square foot vacant building with a basement and a rear yard. The building is constructed of wood framing with a concrete basement floor, and an exterior of composition shingles. Interior building materials consist of plaster and drywall walls and ceilings, and wood floors covered with vinyl tile. The building was constructed prior to 1898, is currently vacant, was originally occupied as a dwelling, was later occupied as an office, and appears to have recently been used as a contractor's office. This building was in a state of disrepair and is scheduled for demolition.

Lot 37 is known as 43-09 Hunter Street, covers an area of 2,500 square feet, and is developed with a 2-story 1,900-square foot 2-unit residential building with a basement and a rear yard. The building has a masonry and brick exterior. This building is occupied by residential tenants and access to this building was not provided. The building was constructed between 1936 and 1947, and appears to have always been used for residential purposes. Prior to 1936, this lot was developed with a dwelling. This building is scheduled for demolition.

Lot 38 is known as 27-02 43<sup>rd</sup> Avenue, covers an area of 2,000 square feet, and is developed with a 2-story 4,000-square foot building with a basement. The building has a masonry and brick exterior covered with stucco. Access to this building was not provided. This building has a sign that reads “Hunter Auto Sales and Service”, appears to be occupied as an auto repair shop, and has three garage bay doors located on its northern façade along Hunter Avenue. The building was constructed in 1934, and has a history of auto-related and manufacturing use. Prior to 1934, this lot was developed with two dwellings. This building is scheduled for demolition.

Lot 39 is known as 27-06 43<sup>rd</sup> Avenue, covers an area of 4,000 square feet, and is developed with a 1-story 4,000-square foot garage building with a small basement vault. The building is constructed of concrete block and brick bearing walls, concrete floors, a wood ceiling, and some plaster interior walls. Two large bay doors are present on the eastern side of the building along 43<sup>rd</sup> Avenue. At the time of the site visit, the building was vacant. A manhole and interior markings on the concrete floor suggest the presence of a former hydraulic lift, oil/water separator, or underground storage tank (UST). A shallow rectangular concrete pit was observed on the ground floor. The purpose of the pit is unknown but is assumed to be associated with former automotive maintenance activities. No areas of staining or previous spills were noted. An inactive 275-gallon fuel oil AST is located in the basement vault. This building was constructed in 1949 and has a history of auto-related use. Prior to 1949 and as early as 1898, this lot was undeveloped. This building is scheduled for demolition.

Lot 41 is known as 27-10 43<sup>rd</sup> Avenue, covers an area of 2,000 square feet, and is developed with a 1-story 2,250-square foot garage building with a small partial basement. The building is constructed of concrete block and brick bearing walls, concrete floors, and a wood ceiling. A large bay door is present on the eastern side of the building along 43<sup>rd</sup> Avenue. At the time of the site visit, the building was occupied as a temporary art studio. A floor drain was observed on the concrete 1<sup>st</sup> floor area. No areas of staining or previous spills were noted. An inactive boiler and 275-gallon AST were observed in the partial basement. This building was constructed in 1928 and has a history of auto-related and manufacturing use. Prior to 1928 and as early as 1898, this lot was undeveloped. This building is scheduled for demolition.

## 2.6 NEIGHBORING PROPERTY USES

The subject property consists of 13 lots that cover the majority of City Block 433. The subject property is bound by Jackson Avenue to the south, Hunter Street to the north, 43<sup>rd</sup> Avenue to the east, and 44<sup>th</sup> Drive to the west. The surrounding properties consist of a combination of residential, commercial, and retail development. The neighboring properties are described in the table below.

Direction	Closest Street	Adjacent Property	Further
North	Hunter Street	A parking lot and a 2-story commercial building	Office building under construction, warehouses, and low-rise retail/commercial businesses with upper floor residential apartments
South	Jackson Avenue	A high-rise office building, a lumber yard, and low-rise retail/commercial businesses with upper floor residential apartments	Low-rise commercial development including several auto-related businesses (auto body, auto repair, and garages), a large apartment building, and railroad tracks
East	43 <sup>rd</sup> Avenue	A rubber stamp company, a large vacant lot, and a Gas Trac gasoline filling station and auto repair (2719 43 <sup>rd</sup> Avenue)	Commercial and residential development including an auto repair shop (4283 Hunter Avenue) and loft buildings
West	44 <sup>th</sup> Drive	Rafferty Triangle (a small public sitting park)	A high-rise office building (Citibank Building), a second high-rise office building, followed by low-rise retail/commercial businesses with upper floor residential apartments

Auto-related businesses were observed to the south and east of the subject property. A Gas Trac gasoline filling station is located across the street to the east of the subject property. A gasoline filling station has been present at this location since circa 1970. The regulatory database review shows that in 2000 Gas Trac (known then as Gas Go) removed ten 550-gallon fuel oil underground storage tanks (USTs) and approximately 700 tons of petroleum-impacted soil from its premises. The UST and soil removal activities were overseen and granted closure by the New York State Department of Environmental Conservation (NYSDEC) under Spill #9913082.

Although none of the remaining nearby auto-related businesses are listed on the regulatory databases reviewed as having had any spills or releases with the potential to impact the subject property (see Section 4.1). The historical sources reviewed show that the auto-related businesses have been in place since circa 1936.

These auto-related businesses and the adjacent gasoline filling station began operation at a time period that predates regulatory oversight for the storage and disposal of petroleum chemicals and petroleum waste, reporting requirements for spills and releases, and investigation and cleanup requirements for contamination. Therefore, the time period at which the nearby sites began operation (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these surrounding sites a recognized environmental condition (REC) that will warrant further action.

None of the other neighboring properties are likely to have had a negative environmental impact on the subject property.

## **2.7 PHYSICAL SETTING SOURCES**

The following physical setting sources were reviewed to provide information about the topographic, hydrological, geological, and/or hydrogeological characteristics of the subject property.

### **2.7.1 TOPOGRAPHY AND HYDROLOGY**

A United States Geological Survey (USGS) 7.5-Minute Topographic Quadrangle Map was reviewed to determine approximate elevations and topographic features at the property and area.

According to the USGS quadrangle, the topography of the subject property is relatively flat with an average elevation that of approximately 15 feet above mean sea level. Topographic slopes in the general vicinity of the property are towards the west. The nearest surface water bodies are Dutch Kills (off of the Newton Creek), which is located approximately 0.30 miles to the south-southeast, and the East River, which is located approximately 0.75 miles to the west of the subject property.

### **2.7.2 GEOLOGY**

Information concerning the geology of the subject property was obtained from the USGS Groundwater Atlas, New York region (1995).

The subject property is located within the New England Physiographic Province, which is underlain by metamorphic and sedimentary rocks of the Cambrian and Ordovician period.

The bedrock in this area consists of quartzites, dolostones, marbles, schists, and gneisses. The subject property is underlain with mica schist that is known as the Manhattan Schist. The Manhattan Schist is a mass of metamorphic rock covering the deeper limestone stratum which is the firm bedrock providing the superb foundation for New York City's skyscrapers.

### **2.7.3 HYDROGEOLOGY**

Information regarding groundwater was obtained from the USGS Ground Water Atlas of the United States (1995). The principal aquifers in the site area are the New England Crystalline-rock Aquifers. The bedrock surface of about 65 percent of the area is crystalline rock of igneous or metamorphic origin. Glacial deposits of outwash, ice contact, and lacustrine sand and gravel fill ancient valleys cut into the bedrock surface and form the principal aquifers of the segment.

Shallow groundwater flow generally follows topography. Based on the surface topography, it is estimated that the groundwater flow direction in the site area may be similar to surface drainage patterns, which is to the west. However, it must be noted that precise groundwater depths and flow directions can only be determined through the installation and survey of groundwater monitoring wells. Actual local groundwater depths and flow directions can be influenced by such factors as topography, underground structures, seasonal fluctuations, soil and bedrock geology, production wells, and de-watering operations.

### **2.7.4 WETLANDS**

Evidence of marshy areas or vegetation typical of wetlands was not observed on the subject property. According to the United States Fish and Wildlife Service National Wetlands Inventory on-line wetland mapping tool (<http://107.20.228.18/Wetlands/WetlandsMapper.html#>), the closest wetlands are Dutch Kills (off of the Newton Creek), which is located approximately 0.3 miles to the south-southeast, and the East River, which is located approximately 0.75 miles to the west of the subject property.

### **3.0 USER-PROVIDED INFORMATION**

ASTM E1527-05 states that the User of an environmental site assessment may include, without limitation, a potential purchaser of the subject property, a potential tenant of the subject property, an owner of the subject property, a lender, or the manager of the subject property. As per Section 6.0 of ASTM E1527-05, the User of this environmental site assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of *recognized environmental conditions* in connection with the property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

#### **3.1 USER QUESTIONNAIRE**

The ASTM User Questionnaire was forwarded to and completed by Rockrose Development Corp. A copy of the completed User Questionnaire is included in Appendix C.

#### **3.2 LIEN SEARCH**

In order to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations on CERCLA liability, ASTM E 1527-05 and USEPA All Appropriate Inquiry (AAI) stipulate that an environmental lien search be provided by the User. As of the issue date of this report, an Environmental Lien Search Report for the property was not requested or provided for review.

#### **3.3 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION**

The Client provided the investigative parties with the following site contact for the subject property: Mr. Louis Yu, Senior Project Manager at Rockrose Development Corp. Mr. Yu is considered the Key Site Manager as per the ASTM E 1527-05 standard. Mr. Yu provided Velocity and Fleming-Lee Shue with access to the subject property and escorted the investigative parties during the site surveys

#### **3.4 REASON FOR PERFORMING PHASE I ESA**

Rockrose Development Corp. provided no specific information regarding the reason for performing this Phase I ESA.

### **3.5 OTHER USER PROVIDED DOCUMENTS**

Rockrose Development Corp. provided no other documents as described in the ASTM E 1527-05.

## 4.0 RECORDS REVIEW

### 4.1 STANDARD ENVIRONMENTAL RECORD SOURCES REVIEW

A search of federal and state databases was conducted for the subject property and surrounding area within the approximate minimum search distance as specified by ASTM E 1527-05. The database searches were conducted by FirstSearch Technology Corporation (FirstSearch) on June 8, 2012 and are included in Appendix D. The results of the database searches are summarized in the table below.

Standard Environmental Record Sources (Databases)	Approximate Minimum Search Distance	Subject Property Listed	Surrounding Properties Listed	Sites Potentially Impacting Subject Property
<b>Federal Databases</b>				
NPL	1.0 Miles	No	1	None
Delisted NPL	0.5 Miles	No	None	None
CERCLIS	0.5 Miles	No	None	None
CERCLIS NFRAP	0.5 Miles	No	None	None
RCRA CORRACTS	1.0 Miles	No	4	None
RCRA non-CORRACTS TSD	0.5 Miles	No	None	None
RCRA Generators	Property & adjoining properties	No	3	None
Institutional/Control Engineering Control	Property only	No	NA	None
ERNS	Property only	No	NA	None
<b>State and Tribal Databases</b>				
NPL	1.0 Miles	No	13	None
CERCLIS	0.5 Miles	No	None	None
Landfill and/or Solid Waste Disposal Facilities	0.5 Miles	No	3	None
LST	0.25 Miles <sup>1</sup>	No	8	None
RST	Property and adjoining properties	No	3	1
Institutional Control/ Engineering Control	Property only	Yes (1)	NA	1
Voluntary Cleanup Sites	0.5 Miles	No	4	1
Brownfield Sites	0.5 Miles	No	2	2
Spills	Property and adjoining properties	Yes (2)	5	None

<sup>1</sup> As allowed by Section 8.2.1 of the ASTM E1527-05 standard, the ASTM search distance for the database has been reduced from the ASTM E1527-05 Approximate Minimum Search Distance to the distance stated above due to one or more of the following: the density of the setting in which the subject property is located; the distance that the hazardous substances or petroleum products are likely to migrate based on local geologic or hydrogeologic conditions; the property type; and existing or past uses of surrounding properties

Sites identified on the regulatory databases are evaluated below under their respective database titles. Factors used in evaluating the database sites include distance, topography, hydrological gradient, hydrological separation, potential contaminant exposure pathways (including groundwater, soil, and soil vapor), potential contaminant properties, regulatory status, and subject property site features.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) NATIONAL PRIORITIES LIST (NPL) DATABASE**

This database lists the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under Superfund. The NPL Database is based primarily on the score a site receives from the Hazard Ranking System. The USEPA is required to update the NPL Database at least once a year. A site must be on the NPL Database to receive money from the Trust Fund for remedial action.

The subject property is not listed on the USEPA NPL Database. However, there is one site within the approximate minimum search distance of one mile from the subject property is listed on the USEPA NPL Database. This site is as follows:

1. Site Name: Newton Creek  
Site Address: Newton Creek  
Brooklyn & Queens, NY 11222  
ID #: EPA ID#: NYN000206282  
Location: ~0.72 miles to the southwest of and hydrologically crossgradient from the subject property

Newtown Creek is a 3.8-mile long tidal water body located in the City of New York, having five principal tributaries (DutchCreek, Whale Creek, Maspeth Creek, East Branch and English Kills) and is itself a tributary of the East River. The creek is a part of the New York – New Jersey Harbor Estuary that forms the north-south border between the New York City boroughs of Brooklyn and Queens. In the mid 1800s, the area adjacent to the 3.8 mile Newtown Creek was one of the busiest hubs of industrial activity in New York City. More than 50 refineries were located along its banks, including oil refineries, petrochemical plants, fertilizer and glue factories, sawmills, and lumber and coal yards that resulted in industrial waste being discharged into the creek. In addition to the industrial pollution, the city began dumping raw sewage directly into the water in 1856. Currently, factories and facilities still operate along the creek. Various contaminated sites along the creek have contributed to the contamination at Newtown Creek. Many businesses along Newtown Creek still operate without city-provided sewer services. Water flow into Newtown Creek currently consists mostly of storm water runoff, combined sewer overflows (CSO), and discharges from permitted and unpermitted pollution sources. The creek rises and falls with the tide, but it is mostly stagnant.

Various sediment and surface water samples taken along the creek have identified hazardous substances, including pesticides, metals, PCBs, and volatile organic compounds (VOCs) in the creek. Investigations and remediation under state or federal programs have also been conducted at properties adjacent to the creek to abate continued discharges of pollution to the creek from those facilities. The USEPA conducted an Expanded Site Investigation (ESI) of Newtown Creek in 2009 to determine its inclusion onto the NPL and concluded that metals, VOCs, and semi-VOCs are present in Creek sediments at elevated concentrations. The variety and distribution of the detected contaminants suggests that they originated from a variety of sources. Previous environmental investigations of Newtown Creek, or specific portions of the Creek, also disclosed that sediments in Newtown Creek are contaminated by a wide variety of hazardous substances. Environmental investigations of upland parcels adjacent to or nearby the Creek have disclosed contamination of those parcels by hazardous substances similar to hazardous substances found in sediments in Newtown Creek.

Newtown Creek was finalized onto the NPL on September 29, 2010. In July 2011, the USEPA signed an agreement with six entities (the Phelps Dodge Refining Corporation, Texaco, Inc., BP Products North America, Inc., National Grid NY (formerly the Brooklyn Union Gas Company), ExxonMobil Oil Corporation and the City of New York) to investigate the contamination in Newtown Creek and outline options to clean up the contamination. The USEPA anticipates that it will identify additional parties responsible for the contamination in Newtown Creek. The remedial investigation will take several years to complete, after which the USEPA will oversee an analysis to develop and assess the full range of options for cleaning up contamination in Newtown Creek.

Based on the resource impacted at this site (surface water and sediment), the distance and hydrological location of this site in relation to the subject property, the density of development in the area, and that groundwater and water from the creek is not used for potable purposes, this site is unlikely to represent an issue of environmental concern to the subject property.

#### **USEPA DELISTED NPL DATABASE**

This database is a list of sites that have been approved by the USEPA for removal/deletion from the USEPA NPL Database. The USEPA may delete sites from the NPL when the USEPA determines that *no further response* is appropriate under CERCLA because the site meets one of the following criteria: 1) the responsible or other parties have implemented all appropriate and required response actions; 2) all appropriate Fund-financed responses under CERCLA have been implemented and no further response action is required (applies to private sector sites only); or 3) the release of hazardous substances poses no significant threat to the public health, welfare, or the environment, thereby eliminating the need for remedial action.

Neither the subject property nor any sites within the approximate minimum search distance of a half-mile from the subject property are listed on the USEPA Delisted NPL Database.

**USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY INFORMATION SYSTEM (CERCLIS) DATABASE**

This database includes all sites which have been nominated for investigation by the Superfund program and the actions that have been taken at these sites. If the site investigation reveals contamination, the site is ranked and may be included on the NPL for Superfund cleanup. Inclusion in the CERCLIS database does not necessarily mean that a property is a hazardous waste site. An emergency action may have been conducted there or a simple investigation which concluded that no further action was required.

Neither the subject property nor any sites within the approximate minimum search distance of a half-mile from the subject property are listed on the USEPA CERCLIS Database.

**USEPA CERCLIS NO FURTHER REMEDIAL ACTION PLANNED (NFRAP) DATABASE**

This database contains CERCLIS sites designated “No Further Remedial Action Planned” (NFRAP) and that have been removed from the USEPA CERCLIS Database. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

Neither the subject property nor any sites within the approximate minimum search distance of a half-mile from the subject property are listed on the USEPA CERCLIS NFRAP Database.

**USEPA RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) CORRECTIVE ACTION ACTIVITY (CORRACTS) DATABASE**

This database identifies RCRA treatment, storage and disposal facilities that have had accidents or other activities that may have released pollutants into soil, groundwater, surface water and air. The RCRA Corrective Action Program allows these facilities to address the investigation and cleanup of these hazardous releases themselves. RCRA Corrective Action Program differs from Superfund in that it deals with sites that have viable operators and on-going operations.

The subject property is not listed on the USEPA CORRACTS Database; however, there are four sites within the approximate minimum search distance of one mile of the

property listed on the USEPA CORRACTS Database. These sites are summarized below.

1. Site Name: Oconner Capital Partners  
Site Address: 5-36 46<sup>th</sup> Road  
Queens, NY 11101  
ID # NYD001264191  
Location: ~0.64 miles to the southwest of and hydrologically downgradient from the subject property

This site is listed as having a RCRA Facility Assessment completed in March 1994. It is also listed as having one RCRA enforcement action and violation dating from 1991. The RCRA violation is listed as resolved. The USEPA RCRA CORRACTS Database does not list resolution dates for enforcement actions. Groundwater at this site appears to flow to the west, towards the East River and away from the subject property. Based on its distance, downgradient location, and the urban environment, this USEPA RCRA CORRACTS site is unlikely to have a negative environmental impact on the subject property.

2. Site Name: Kosan Industrial Corp.  
Site Address: 5-49 49<sup>th</sup> Avenue  
Queens, NY 11101  
ID # NYD061949228  
Location: ~0.70 miles to the southwest of and hydrologically downgradient from the subject property

This site generated numerous hazardous wastes. RCRA Facility Assessments were completed in 1995 and in 2004 and this site was assigned a low priority for corrective action. Groundwater at this site appears to flow to the west, towards the East River and away from the subject property. Based on its distance, downgradient location, and the urban environment, this site is unlikely to have had a negative environmental impact on the subject property.

3. Site Name: Con Edison-Ravenswood Tunnel Headhouse  
Site Address: 38-54 Vernon Boulevard  
Queens, NY 11101  
ID # NYD003917960  
Location: ~0.81 miles to the northwest of and hydrologically downgradient from the subject property

This site is listed as having a RCRA Facility Assessments completed in December 1994. It is also listed as having six RCRA enforcement actions and violations dating from 1988 to 1997. The RCRA violations are all listed as resolved. The USEPA RCRA CORRACTS Database does not list resolution dates for enforcement actions. Groundwater at this site appears to flow to the west, towards the East River and away from the subject property. Based on its distance, downgradient location, and the urban environment, this USEPA RCRA CORRACTS site is unlikely to have a negative environmental impact on the subject property.

4. Site Name: Active Steel Drum Co. Inc.  
Site Address: 52-30 34<sup>th</sup> Street  
Queens, NY 11101  
ID #: NYD003933355  
Location: ~0.82 miles to the southeast of and  
hydrologically separated from the subject  
property by Dutch Kills

Contamination from corrosive waste and various halogenated and non-halogenated solvents was discovered at this site in 1984. This site is listed as having a RCRA Facility Assessment completed in December 1987, a RCRA enforcement violation, and four corrective actions, which are all listed as being resolved. This site is hydrologically separated from the subject property by Dutch Kills. Based on its distance, hydrological separation from the subject property, and the urban environment, this USEPA RCRA CORRACTS site is unlikely to have a negative environmental impact on the subject property.

**USEPA RCRA NON-CORRACTS TREATMENT, STORAGE, AND/OR DISPOSAL (TSD) DATABASE**

This database identifies facilities permitted to treat, store and dispose of hazardous wastes as defined and regulated by RCRA.

Neither the subject property nor any sites within the approximate minimum search distance of a half-mile from the subject property are listed on the USEPA RCRA TSD Database.

**USEPA RCRA DATABASE OF HAZARDOUS WASTE GENERATORS (GENERATOR DATABASE)**

This database contains information on hazardous waste handlers regulated by the USEPA under RCRA. A listing on this database is not necessarily an indication of an environmental concern.

The subject property is not listed on the USEPA RCRA Generator Database. However, the following three adjacent sites are listed on this database:

1. Site Name: MTA NYCT – Vent plant 5103  
 Site Address: Hunter Street and 43<sup>rd</sup> Avenue  
 Long Island City, NY  
 ID #: NYR000171173  
 Location: Adjacent to the northeast and hydrologically upgradient
  
2. Site Name: NYCTA  
 Site Address: Jackson Avenue and 44<sup>th</sup> Drive  
 Long Island City, NY  
 ID #: NYR000001032  
 Location: Adjacent to the southwest and hydrologically crossgradient
  
3. Site Name: AAA Stamp and Seal  
 Site Address: 26-20 Jackson Avenue  
 Long Island City, NY  
 ID #: NYR000055889  
 Location: Adjacent to the southeast and hydrologically crossgradient

These sites are listed on the USEPA RCRA Generator Database as small quantity generators (facilities that generates between 100 and 1,000 kilograms of hazardous waste per month) and conditionally exempt small quantity generators (facilities that generates less than 100 kilograms of hazardous waste per month). The adjacent sites have no reported RCRA violations or enforcement actions, and are not cross-listed on the RCRA Administrative Action Tracking System (RAATS) or the RCRA Corrective Action (CORRACTS) Databases for administrative or corrective actions. Since these site are not listed for any violations or enforcement actions, it is unlikely that these three USEPA RCRA generators represent an issue of environmental concern.

**USEPA INSTITUTIONAL CONTROL/ENGINEERING CONTROL (IC/EC)  
 DATABASE**

This database identifies sites that the USEPA has allowed the implementation of institutional and/or engineering controls to limit exposure to hazardous waste or hazardous constituents. Institutional controls are legal or administrative measures that limit human exposure to hazardous waste or hazardous constituents. Examples include use control areas, easements, zoning restrictions, and deed notices. They are intended to bolster the integrity of remedies and minimize the potential exposure to contamination by limiting land or resource use. Institutional controls are typically used any time contaminants are left in place at cleanup levels that are based on restricted site uses. In addition, institutional controls may be required during implementation of a remedy that will eventually achieve unrestricted site use cleanup levels but will take a long time, for example, for sites undergoing long term groundwater remediation and sites where a

monitored natural attenuation remedy is approved. Institutional controls are generally used in conjunction with, rather than in lieu of, engineering measures, such as waste treatment or containment. Engineering controls are measures, such as capping, containment, slurry walls, extraction wells, or treatment methods that are capable of managing environmental and health risks by reducing contamination levels or limiting exposure pathways.

The subject property is not listed on the USEPA IC/EC Database.

#### **USEPA EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) DATABASE**

This is a database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally-dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents.

The subject property is not listed on the USEPA ERNS Database.

#### **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) STATE HAZARDOUS WASTE DISPOSAL SITES (SHWS) DATABASE**

This database is also known as the State and Tribal equivalent NPL and CERCLIS sites and contains State and Tribal listing of sites that can pose environmental or public health hazards requiring investigation or clean up.

The subject property is not listed on the NYSDEC SHWS Database; however, there are nine sites within the approximate minimum search distance of one mile of the property listed on the NYSDEC SHWS Database. These sites are summarized below.

1. Site Name: 21-03 44<sup>th</sup> Avenue  
Site Address: 21-03 44<sup>th</sup> Avenue  
Long Island City, NY 11101  
ID #: 241107  
Location: ~0.25 miles to the northwest of and  
hydrologically crossgradient from the subject  
property

The building at 21-03 44<sup>th</sup> Avenue is currently in use as commercial office space and as a taxi leasing business; prior uses of the building include metal plating. A groundwater plume contaminated with volatile organic compounds (VOCs), primarily tetrachloroethylene (PCE), and chromium was discovered in 2008 and extends to the south of the property. Groundwater at this site flows to the south. The contaminants appear to have originated from a leak in a broken sewer pipe that connects the building

and the main sewer line in the street. The contamination presents a significant threat to the environment as demonstrated by the magnitude and aerial extent of groundwater impacts. An Interim Remedial Measure (IRM) is being designed to mitigate the impacts to groundwater from the source area believed to be present in the vicinity of the site. The area is served by public water, thus exposure via ingestion of contaminated groundwater is not expected. Given the distance of this site from the subject property, its downgradient hydrological location from the subject property, that groundwater (the main means of transport of contaminants) in the area is not used for potable purposes, and that the site is being investigated under the State Superfund Program, this site does not represent an issue of environmental concern to the subject property.

2. Site Name: Amtrak Sunnyside Yard  
Site Address: 39-29 Honeywell Street  
Long Island City, NY 11101  
ID #: 241006  
Location: ~0.56 miles to the northeast of and hydrologically crossgradient from the subject property

This site is a 100-acre property and is an active maintenance and storage yard for train locomotives and passenger cars. Several investigations conducted on the site concluded that soil, groundwater, and sewer sediment at the site has been contaminated with PCBs, petroleum hydrocarbons, lead, and VOCs. Under a Consent Order signed by the responsible party, the areas of contamination have been investigated and remedial plans have been implemented to address the contamination. The remedial work has been divided into six different operable units which are under differing stages of remediation. According to investigations conducted to date, the groundwater at the site flows to the north, northwest, and west, which are crossgradient from the area of the subject property. Given the distance of this site from the subject property, its crossgradient hydrological location from the subject property, that groundwater (the main means of transport of contaminants) in the area is not used for potable purposes, and that a responsible party has been identified and is in the process of investigating and remediating this site, this site does not represent an issue of environmental concern to the subject property.

3. Site Name: Newton Creek  
Site Address: Newton Creek  
Brooklyn & Queens, NY 11222  
ID #: 241117  
Location: ~0.72 miles to the southwest of and hydrologically crossgradient from the subject property

This site is also listed on the USEPA NPL Database and is evaluated above in the USEPA NPL Database section.

4. Site Name: Jung Sun Laundry Plume  
Site Address: 37-10 24<sup>th</sup> Street  
Long Island City, NY  
ID #: 241102  
Location: ~0.73 miles to the northeast of and hydrologically upgradient from the subject property

This site is a former dry cleaning facility that operated from the late 1980s to the mid 1990s. Spills and operational activities at this site have impacted the soil and groundwater with PCE and trichloroethene (TCE). Based on the results of site characterizations completed in 2007 and in 2010 this site was placed on the registry as a Class 2 Inactive Hazardous Waste Disposal site. Contaminants have migrated at least 400 feet off-site to the south and southwest. The site poses a significant environmental threat because the area overlies a sole-source aquifer and because there is an ongoing release of PCE and TCE from soil into groundwater. Contact with contaminated soil is not expected since it is located at depth and covered by buildings, asphalt and concrete. Ingestion of contaminated groundwater is not likely since the area is served with public water. Site-related contaminants are present in soil vapor. Therefore, there is a potential for soil vapor intrusion to occur in on-site and off-site structures. Investigation of this potential pathway has been recommended. Based on its distance, this site does not present an issue of environmental concern to the subject property.

5. Site Name: National Rubber Adhesives, Inc  
Site Address: 31-38 9<sup>th</sup> Street  
Long Island City, New York 11101  
ID #: 241028  
Location: ~0.73 miles to the northwest of and hydrologically downgradient from the subject property

This site consists of a single building with five closed underground storage tanks (USTs) that contained toluene, methyl ketone, heptane, and gasoline. Two active 1,500-gallon USTs store heptane on-site. The soil and groundwater on this site have been impacted with VOCs, and the impacts have migrated off-site. Groundwater at this site flows to the west, towards the East River. Since the site is fully paved and served by the public water supply, direct exposure to the contaminants is not expected. The New York State Department of Health (NYSDOH) has requested soil gas sampling at nearby residential properties to assess the possibility of soil gas migration. Based on its distance and downgradient location, this site is unlikely to have had a negative environmental impact on the subject property.

6. Site Name: Standard Motor Products, Inc.  
Site Address: 37-18 Northern Boulevard  
Long Island City, NY 11101  
ID #: 241028  
Location: ~0.93 miles to the northeast of and  
hydrologically upgradient from the subject  
property

This site is approximately 1.1 acres and has been occupied by a manufacturer of automobile parts and components since the early 1900s. Operations conducted on this site included metal fabrication and machining, plastic injection molding, and assembly. Investigations conducted on the site in the 1990s identified several areas with elevated levels of petroleum hydrocarbons and VOCs in the soil as well as groundwater contaminated with VOCs and lead. A number of the areas with contaminated soil were excavated. A Consent Order was signed in April 2010 by the responsible party (Standard Motor Products/MTA) to develop and implement a Remedial Investigation/Feasibility Study (RI/FS). According to the NYSDEC, there is minimal health impact to the surrounding area since the area surrounding this site is served by public water and groundwater in the area is not used for potable purposes. Groundwater at this site flows to the west. Given the distance of this site from the subject property, that groundwater (the main means of transport of contaminants) in the area is not used for potable purposes, and that a responsible party has been identified and is in the process of investigating and remediating this site, this site does not represent an issue of environmental concern to the subject property.

7. Site Name: Roehr Chemicals  
Site Address: 52-20 37<sup>th</sup> Street  
Long Island City, NY 11101  
ID #: 241014  
Location: ~0.96 miles to the southeast of and  
hydrologically separated from the subject  
property by Dutch Kills

Roehr Chemicals owned and operated four buildings on several lots – lots 1, 8, 23, and 28. Lot 1 contained the main building and is the focus of the NYSDEC investigation. The other lots were investigated and closed in August 1992 under RCRA closure. Roehr Chemicals was a manufacturer of pharmaceuticals and used VOCs in the production of the pharmaceuticals. Investigations conducted on and off-site have concluded that the soil on-site and groundwater on- and off-site has been impacted by VOCs as result of the operational/storage activities on-site. Interim Remedial Measures (IRM) consisting of soil vapor extraction and air sparging have been installed to address the soil and groundwater contamination. According to the NYSDEC, soil and groundwater contamination continue to diminish as the IRM progresses. The NYSDEC issued a Record of Decision (ROD) that calls for No Further Action except for continued operation, maintenance and monitoring (OM&M) of all wells where the contamination

levels exceeds groundwater standards. Based on the NYSDEC ROD, the distance and hydrological separation of this site from the subject property, and that groundwater (the main means of transport of contaminants) in the area is not used for potable purposes, this site does not represent an issue of environmental concern to the subject property.

8&9 Site Name: (Former) Manhattan Adhesives Plant  
Site Address: 25 Greenpoint Avenue  
Brooklyn, NY  
ID # HS2035/224009  
Location: 1.0 miles to the southeast of and  
hydrologically separated from the subject  
property by Newton Creek

Manhattan Adhesives currently consists of an empty factory building located at the foot of the Greenpoint Avenue Bridge in Brooklyn, New York. Liquid waste was allegedly discharged into a manhole (not a sewer or drain) on this property. The waste originated from a condemned oil storage site located at the intersection of Rt. 280 and the New Jersey Turnpike in New Jersey. The manhole is suspected of being the opening to an underground tank; however, the quantity of the waste (over 400,000 gallons) allegedly dumped exceeds the capacity of most tanks. This information was obtained from the State Senate Committee on Crime and the Brooklyn District Attorney's office. A Phase I State Superfund has been completed. A partial phase II investigation completed during 1985 recommended no further action. The Responsible Party agreed to undertake an investigation in 1986. An investigation has not found hazardous waste on-site. Based on the distance of this site from the subject property, its hydrological separation from the subject property, and that groundwater (the main means of transport of contaminants) in the area is not used for potable purposes, this site does not represent an issue of environmental concern to the subject property.

In addition, there are four non-geocoded sites listed on the NYSDEC Tribal Land Database that could potentially be located within the approximate minimum search distance of one-mile from the subject property.

These sites are listed as Bureau of Indian Affairs Contact Information sites and are part of the Native American Consultation Database (NACD); which is a tool for identifying consultation contacts for Indian tribes, Alaska Native villages and corporations, and Native Hawaiian organizations. The database is not a comprehensive source of information, but it does provide a starting point for the consultation process by identifying tribal leaders and NAGPRA contacts. This database can be accessed online at the following web address <http://home.nps.gov/nacd/>. Given the nature of this database and that these listings do not appear to be the result of contamination, it is unlikely that these listings represent issues of environmental concern to the subject property.

## NYSDEC CERCLIS DATABASE

This database is included in the NYSDEC SHWS Database that is discussed above.

## NYSDEC LANDFILL AND/OR SOLID WASTE DISPOSAL FACILITIES (SWDF) DATABASE

This database is a listing of non-hazardous solid waste facilities and includes landfills and transfer stations. A listing on this database is not an indication of an environmental problem or the presence of contamination.

The subject property is not listed on the NYSDEC Landfill and/or SWDF Database; however, there are three sites within the approximate minimum search distance of a half mile of the property listed on the NYSDEC Landfill and/or SWDF Database. These sites are located 0.28 and 0.34 miles to the southwest of the subject property close. Groundwater at these sites is estimated to flow towards the East River and away from the subject property. Based on their distance and downgradient locations, these three NYSDEC Landfill and/or SWDF Database sites do not present an issue of concern to the subject property.

## NYSDEC LEAKING STORAGE TANK (LST) DATABASE

This database consists of reports to State regulatory authorities of leaking or failed storage tanks.

The subject property is not listed on the NYSDEC LST Database. However, there are eight sites within the approximate minimum search distance of a quarter-mile from the property listed on the NYSDEC LST Database. These sites are summarized below.

Sites	Distance/Location	Comments	Impact to Subject Property
7 sites	Between 0.12 and 0.25 miles	“Closed” status issued by the NYSDEC	Unlikely to have had a negative environmental impact due to their closed status <sup>1</sup>
1 site	0.16 miles to the northwest	“Closed” status issued by the NYSDEC <sup>2</sup>	Unlikely to have had a negative environmental impact due to its closed status

<sup>1</sup>A “closed” status is issued by the NYSDEC when remedial actions have been adequately completed and the proper paperwork has been submitted, filed, and approved by the NYSDEC.

<sup>2</sup>Information obtained from NYSDEC website <http://www.dec.ny.gov/cfm/xtapps/derexternal/index.cfm?pageid=2>

## NYSDEC REGISTERED STORAGE TANK (RST) DATABASE

This database is a listing of all registered storage tanks registered with the State environmental regulatory agency. A listing on this database is not an indication of an environmental problem or the presence of contamination.

The subject property is not listed on the NYSDEC RST Database. However, the following three adjacent sites are listed on the NYSDEC RST Database:

- GasGo Petroleum at 27-01 Jackson Avenue (gasoline filling station adjacent to the east), has four active 4,000-gallon gasoline underground storage tanks (USTs) that were installed in 2000, and ten 550-gallon gasoline USTs that were installed in 1966 and removed in 2000.
- 43-32 Crescent Street, adjacent to the north has one active 2,500-gallon fuel oil aboveground storage tank (AST)
- 24-15 44<sup>th</sup> Road, adjacent to the north has one removed 2,020-gallon AST

Based on the age, volume, and underground orientation of the tanks at the GasGo Petroleum site to the east, this site has the potential to impact the subject property and is a REC. Based on the aboveground orientation of the tanks at the remaining two sites, these sites do not present an issue of concern to the subject property.

#### **NYSDEC IC/EC DATABASE**

This database identifies sites that the State regulatory authority/agency has allowed the implementation of institutional and/or engineering controls to limit exposure to hazardous waste or hazardous constituents. Institutional controls are legal or administrative measures that limit human exposure to hazardous waste or hazardous constituents. Examples include use control areas, easements, zoning restrictions, and deed notices. They are intended to bolster the integrity of remedies and minimize the potential exposure to contamination by limiting land or resource use. Institutional controls are typically used any time contaminants are left in place at cleanup levels that are based on restricted site uses. In addition, institutional controls may be required during implementation of a remedy that will eventually achieve unrestricted site use cleanup levels but will take a long time, for example, for sites undergoing long term groundwater remediation and sites where a monitored natural attenuation remedy is approved. Institutional controls are generally used in conjunction with, rather than in lieu of, engineering measures, such as waste treatment or containment. Engineering controls are measures, such as capping, containment, slurry walls, extraction wells, or treatment methods that are capable of managing environmental and health risks by reducing contamination levels or limiting exposure pathways.

The subject property is listed on the NYSDEC IC/EC Database for the entire subject property Tax Block 433 and Tax Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41. The listing is a New York City Office of Environmental Remediation (NYCOER) Environmental Declaration (E-Designation) for USTs and for Window Wall Attenuation and Alternate Ventilation. The E-Designation will restrict the submittal of applications to the New York City Department of Buildings (NYCDOB) for site redevelopment unless NYCOER approval has been obtained. Approval by the NYCOER typically includes subsurface investigative activities and possibly cleanup activities. The listing of the

subject property as an E-Designated site is a REC that will warrant further action if the property is to be redeveloped.

### **NYSDEC VOLUNTARY CLEANUP SITES (VCS) DATABASE**

This database contains Voluntary Cleanup Program (VCP) sites. These are sites where owners and operators of contaminated property are voluntarily investigating and, if necessary, cleaning up their sites to facilitate the use, sale, refinancing and/or redevelopment of contaminated property, while protecting human health and the environment.

The subject property is not listed on the NYSDEC VCS Database; however, the following four sites were identified within the approximate minimum search distance of a half-mile from the subject property on the NYSDEC VCS Database:

1. Site Name: 21-16 44<sup>th</sup> Road, LIC  
Site Address: 21-16 44<sup>th</sup> Road  
Long Island City, NY 11101  
ID #: V00366  
Location: ~0.23 miles to the northwest of and  
hydrologically downgradient from the subject  
property

The site was formerly occupied by a four-story, 30,000-square foot warehouse that operated as a cloth manufacturing factory, a plating factory, and a 5,000-square foot parking lot. Wastes from the metal cleaning and plating baths were disposed of on-site into three drywells. Investigations completed in 2003 revealed high concentrations of VOCs in soil, groundwater, and soil vapor. Remedial work completed has included disposal of chemical drums and containers; closure of a 5,000 gallon tank; excavation and off-site disposal of the dry wells and contaminated media; installation of a soil vapor barrier and sub-slab depressurization system (SSDS) under the first floor and basement slabs; installation of a soil vapor extraction system (SVES); and installation of a groundwater pump and treatment system. The building has been renovated and is currently occupied by the Information Technology High School. The remedial systems have been operating since 2004 and are currently operating under a NYSDEC-approved Site Management Plan which has provisions for frequent system monitoring and maintenance, and for periodic reporting to the NYSDEC. Human exposures to residual contaminated soil are unlikely because the site is covered by the on-site building and pavement. Ingestion of groundwater as a potable drinking water source is not expected since the area is served by public water supply. Potential exposures via soil vapor intrusion into the school have been mitigated by the installation and operation of the SSDS, a vapor barrier, a eight-inch thick competent concrete slab, and the building's positive-pressure heating and ventilation system. Monthly sampling of soil vapor and quarterly sampling of groundwater will ensure that remedial systems are working properly. Based on this information as well as the distance and hydrological location of

this site in relation to the subject property and that groundwater in the area is not used for potable purposes, this site does not represent an issue of environmental concern to the subject property.

2. Site Name: Outlet City, Queens Boulevard and Jackson Avenue  
Site Address: Jackson Avenue and Queens Boulevard  
Long Island City, NY 11101  
ID #: V00081  
Location: ~0.14 miles to the northeast of and hydrologically upgradient from the subject property

<sup>1</sup>Although this site is mapped at 0.27 miles on the database, it is actually located 0.14 miles to the northeast of the subject property

This site consists of 12 multi-story buildings used primarily as offices, a warehouse, and an associated parking area located in a congested commercial/industrial area. The site is located on the south side of Jackson Avenue between Orchard Street to the east, Queens Boulevard to the west and Long Island Railroad yard to the south. The site had formerly been used for manufacturing chemical products such as disinfectants, insecticides, soaps, floor wax, and paper products dispensing machines from 1901-1978. Manufacturing operations employed various chemical substances including creosote, coal and acids, cresylic acids, degreasing solvents, iodine, and assorted oils and pesticides. Metal plating and gasoline filling operations were also conducted at the property. The soil and groundwater at the site is contaminated with creosote, petroleum, and solvents. A ventilation interim remedial measure (IRM) is in place in the basement of building #4, a low point of the site and where creosote presence is most noticeable. Exposure to contaminated groundwater is not expected because the area is served by public water. Contaminated soils are beneath the site; however, exposure to this soil is not expected because the site is capped with asphalt. Indoor air samples collected in a portion of the site contained levels that exceeded the New York State Department of Health (NYSDOH) Guideline for tetrachloroethene in Indoor Air. The NYSDOH and NYSDEC will evaluate the need for additional investigations to determine the potential for soil vapor intrusion into structures near the site. Based on the proximity of this site to the subject property and its presumed upgradient location this site has the potential to impact the subject property and is a REC.

3. Site Name: Formerly Acco Brands, Inc.  
Site Address: 32-00 Skillman Avenue  
Long Island City, NY 11101  
ID #: V00331  
Location: ~0.50 miles to the southeast of and hydrologically upgradient from the subject property

This site was occupied by several automotive service centers and gasoline stations prior to 1950 and by ACCO (a stapler manufacturer) after 1952. Paints, thinners, solvents and cleaners used as part of the manufacturing process and related hazardous wastes generated are the source of the contaminants on-site. The basement (the area covered under the Voluntary Cleanup Agreement) is currently unoccupied and formerly contained an unlined pit. Investigations have identified soil impacts confined to a portion beneath the basement and groundwater impacts that extend further downgradient of the site. Remedial actions commenced in 2004 and included Soil Vapor Extraction (SVE) and ozone oxidation to treat the soil above the groundwater; air and ozone sparging to treat shallow groundwater; permanganate oxidation to treat intermediate and deep groundwater impacts, and sub-slab depressurization systems (systems that ventilate/remove the air beneath the building) installed in off-site buildings to prevent inhalation of site contaminants in indoor air due to soil vapor intrusion. Exposure to contaminated soil is not expected as contamination is beneath the building. Groundwater in the area is not used for drinking water purposes, therefore, exposures are unlikely. Based on this information as well as the distance of this site from the subject property and that groundwater in the area is not used for potable purposes, this site does not represent an issue of environmental concern to the subject property.

4. Site Name: Arch Street Yards (LIRR)  
Site Address: Arch Street and Jackson Avenue  
Long Island City, NY 11101  
ID #: V00733  
Location: ~0.35 miles to the southwest of and  
hydrologically downgradient from the subject  
property

This site is an approximate 8-acre rail yard and train repair facility. Site impacts consist of VOCs and SVOCs in soil and groundwater. The horizontal and vertical extent of the contamination has not been delineated. No other pertinent information was available regarding this site. Based on the distance and downgradient location of this site from the subject property, this site does not represent an issue of environmental concern to the subject property.

#### **NYSDEC BROWNFIELD SITES**

This database is a list of Brownfield sites in the State. A brownfield is a property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

The subject property is not listed on the NYSDEC Brownfield Sites Database. However, there are two sites within the approximate minimum search distance of a half-mile from the subject property listed on the NYSDEC Brownfield Sites Database. The sites are as follows:

1. Site Name: Queens Plaza Residential Development  
Site Address: 28-10 Jackson Avenue  
Long Island City, NY 11101  
ID #: C241105  
Location: ~0.15 miles to the east of and hydrologically upgradient from the subject property

This Brownfield site is an empty approximate 0.5-acre lot that is a portion of the Outlet City VCP site (#V00081) located at 28-10 Jackson Avenue, Long Island City. From 1901-1978, West Chemical Co. owned the property and manufactured commercial and disinfectant products such as disinfectants, insecticides, soaps, floor wax, and paper products dispensing machines. Intended use for this site is to build a multi-tenant high-rise residential apartment building with ground floor commercial space and a basement. The release of approximately 5,000 gallons of creosote caused extensive soil and groundwater contamination. The Remedial Work Plan was publicly noticed in June/July 2007 and was approved by NYS on August 16, 2007. As of September 2011, the remedial actions had not yet been completed. The remedial investigation documented that subsurface soils and groundwater are contaminated with volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), and chlorinated solvents. Exposures via drinking water are not expected because this mixed industrial/residential neighborhood is served by public water. The new building proposed for the site will include a vapor barrier and sub-slab depressurization system to prevent exposures via vapor intrusion. Additionally, the site will be capped with asphalt and managed through the site management plan which minimizes the potential for direct contact with residual soil contamination. Based on the proximity of this site to the subject property and its presumed upgradient location this site has the potential to impact the subject property and is a REC.

2. Site Name: Former Neptune Meter Site  
Site Address: Davis Street, Jackson Avenue and Crane Street  
Long Island City, NY 11101  
ID #: C241138  
Location: ~0.20 miles to the southwest of and hydrologically upgradient from the subject property

This site is a 2.92-acre that has a history of multi-tenant manufacturing, warehousing, commercial and residential use that dates back to the late 1800s. Groundwater at this site flows to the east-northeast. Soils at this site have been impacted with VOCs, SVOCs, and metals. No groundwater or soil vapor data is available. Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available. Based on the proximity of this site to the subject property, the lack of groundwater and soil vapor data, and its presumed upgradient location this site has the potential to impact the subject property and is a REC.

**NYSDEC DATABASE OF SPILLS OF HAZARDOUS SUBSTANCES (NYSDEC SPILLS)**

This database consists of reports to State regulatory authorities of spills or releases of hazardous substances and/or chemicals.

The subject property is listed twice on the NYSDEC Spills Database; these two spills are not an issue of concern and are summarized below.

<b>Location</b>	<b>Comments</b>	<b>Impact to Subject Property</b>
Spill #0105318, 43-09 Hunter Street	Listed for the release of 3 gallons of fuel oil due to a tank overfill on 08/16/01; "Closed" status issued by the NYSDEC on 06/30/03	Unlikely to have had a negative environmental impact due to the spill description, and its closed status <sup>1</sup>
Spill #9809062, 43-09 Hunter Street	Listed for a release of fuel oil on a platform near a tank in the basement on 10/20/98; "Closed" status issued by the NYSDEC on 10/21/98	Unlikely to have had a negative environmental impact due to the spill description, and its closed status <sup>1</sup>

In addition, there are five NYSDEC Spill incidences for sites adjacent to the subject property. These listings are summarized below.

<b>Location</b>	<b>Comments</b>	<b>Impact to Subject Property</b>
Spill #0710509, construction site at 43-29 Crescent Street, adjacent to the north	Listed for the discovery of a gasoline UST and impacted soil at a construction site; subsurface impacts were addressed and "Closed" status issued by the NYSDEC	Unlikely to have had a negative environmental impact due to its closed status <sup>1</sup>
Spill #0208224, Jackson Ave. and 44 <sup>th</sup> Dr. adjacent to the southwest	Listed for a release of nine gallons of hydraulic fluid from a vehicle; "Closed" status issued by the NYSDEC	Unlikely to have had a negative environmental impact due to the spill description, and its closed status <sup>1</sup>
Spill #9913082, GasGo filling station, adjacent to the east	Listed for contaminated soil discovered on 02/16/2000 during gasoline UST removal and replacement, 10 old USTs removed and four new USTs installed; "Closed" status issued by the NYSDEC on 09/07/05	Unlikely to have had a negative environmental impact due to the spill description, and its closed status <sup>1</sup> However, based on the historical use of this site as a gasoline station, this site has the potential to impact the subject property.
Spill #0405305, Perves St. and Jackson Ave., adjacent to the south	Listed for release of 1,500 gallons of oil/water substance from a vacuum truck into a storm sewer on 08/14/2004; "Closed" status issued by the NYSDEC on 10/28/04	Unlikely to have had a negative environmental impact due to its closed status <sup>1</sup>
Spill #0405105, ConEd manhole at Perves St. and Jackson Ave., adjacent to the south	Listed for a release of two gallons of an unknown substance in a ConEd manhole on 08/09/06; "Closed" status issued by the NYSDEC on 10/23/06	Unlikely to have had a negative environmental impact due to the spill description, and its closed status <sup>1</sup>

<sup>1</sup>A "closed" status is issued by the NYSDEC when remedial actions have been adequately completed and the proper paperwork has been submitted, filed, and approved by the NYSDEC.

## **ORPHAN SITES**

There are 26 orphan sites (sites with insufficient information that are unmappable) listed on the database searches. By cross-referencing the street names of the sites with known street names surrounding the subject property, it was determined that seven of the orphan sites might be located within the ASTM-specified approximate minimum search distance from the subject property. These seven sites are listed on the NYSDEC Tribal Land, VCS, and Brownfields Databases and are evaluated in the NYSDEC Tribal Land, VCS, and Brownfields Database sections above. The remaining sites do not appear to be located within the ASTM-specified approximate minimum search distance from the subject property.

## **4.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES**

Information requests were sent to additional, city, state, and federal agencies for data regarding the subject property. Copies of these information requests are in Appendix E.

### **4.2.1 FIRE DEPARTMENT RECORDS**

The New York City Fire Department (NYCFD) maintains records of active and closed fuel oil and motor oil tanks. The NYCFD fee for a search of active and closed tanks is \$40 per lot. Since the subject property is comprised of 13 lots, a search of NYCFD records is not considered *reasonably ascertainable* due to its cost constraints as per Section 3.2.73 of the ASTM standard.

### **4.2.2 NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH)**

The NYSDOH maintains files of health-related environmental incidents. These incidents may include spills of hazardous chemicals, citizen's complaints regarding asbestos issues, or reports of chemical odors or fumes (see Appendix E). The NYSDOH was contacted on June 10, 2012 to obtain information on spills of hazardous materials, citizen's complaints regarding asbestos issues, or reports of chemical odors or fumes. A response from the NYSDOH has not yet been received. Upon receipt of a response from NYSDOH, the response will be reviewed and, if conclusions contained within this report have been affected, an addendum to this report will be prepared.

### **4.2.3 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)**

The NYSDEC was contacted on June 10, 2012 to obtain information on spills of hazardous materials, citizen's complaints regarding asbestos issues, or reports of chemical odors or fumes (see Appendix E). A response from the NYSDEC has not yet been received. Upon receipt of a response from NYSDEC, the response will be reviewed and,

if conclusions contained within this report have been affected, an addendum to this report will be prepared.

#### **4.2.4 NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP)**

The NYCDEP maintains files of incidents involving environmentally regulated materials. The records maintained by NYCDEP include reports of spills of hazardous chemicals, reports of chemical odors or fumes and citizen's complaints on environmental issues. The NYCDEP was contacted on June 10, 2012 to obtain information of this nature for the subject property. A response from the NYCDEP has not yet been received. Upon receipt of a response from NYCDEP, the response will be reviewed and, if conclusions contained within this report have been affected, an addendum to this report will be prepared.

#### **4.2.5 NEW YORK CITY DEPARTMENT OF HEALTH (NYCDOH)**

The NYCDOH was contacted on June 10, 2012 to obtain any information on lead environmental records, underground storage tanks, spills, remediation and dump sites, hazardous materials activities, and storage of hazardous materials, etc. A response from the NYCDOH has not yet been received. Upon receipt of a response from NYCDOH, the response will be reviewed and, if conclusions contained within this report have been affected, an addendum to this report will be prepared.

#### **4.2.6 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)**

The USEPA was contacted on June 10, 2012 to obtain any information regarding underground storage tanks, spills, remediation and dump sites, hazardous materials activities and storage of hazardous materials, etc. A response from the USEPA has not yet been received. Upon receipt of a response from USEPA, the response will be reviewed and, if conclusions contained within this report have been affected, an addendum to this report will be prepared.

### **4.3 HISTORICAL RECORDS REVIEW**

As per the guidelines set forth in Section 8.3 of the ASTM E 1527-05 Standard, reasonably ascertainable standard historical sources were reviewed in order to determine all obvious uses of the subject property and surrounding area from the present back to the property's first developed use, or back to 1940, whichever is earlier.

Copies of the historical research documentation are in Appendix F. A summary of the historical uses of the subject property is shown below.

<b>Subject Property Address</b>	<b>Development History</b>	<b>Previous Tenants /Uses of Environmental Concern</b>
<b>43<sup>rd</sup> Avenue</b>		
27-02 (Lot 38)	Constructed in 1934; prior developed as two dwellings	<u>City Directories:</u> Numerous auto body shops and auto service shops (1967-2005), Hamilton Forge and Manuf. Co. (1945), Neodyne Chemical Co. (1939) <u>Sanborn Maps:</u> Auto-related uses (circa 1936 and 1970-2006), metal products manufacturer (circa 1947-1950) <u>Building Records:</u> Auto-related uses (1967 and 1988)
27-06 (Lot 39)	Constructed in 1949; no prior development identified	<u>City Directories:</u> Auto repair (2000), Albert Gas Svce (1983), Transformer Sales Co. (1962) <u>Building Records:</u> Auto-related uses (1996 and 1997)
27-10 (Lot 41)	Constructed in 1928; no prior development identified	<u>City Directories:</u> Atkinson Auto Svce (1983 and 1991), Sheet Metal Co. (1945), Auto Body shop (1935) <u>Sanborn Maps:</u> Auto-related uses (1936 and 1970-2006)
<b>44<sup>th</sup> Drive</b>		
20-25 and 25-24 (Lot 12)	Constructed in 1963; no prior development identified	None identified
<b>Hunter Street</b>		
43-25 (Lot 31)	Constructed in 1960; no prior development identified	<u>City Directories:</u> Centralized Lab Services (1967-2005) <u>Sanborn Maps:</u> Laboratory (1988-2006) <u>Building Records:</u> factory and medical laboratory use (1960 and 1994 )
43-15 (Lot 35)	Constructed in 1923; no prior development identified	None identified
43-11 (Lot 36)	Constructed prior to 1898	None identified
43-09 (Lot 37)	Constructed between 1936 and 1947; prior developed as a dwelling	None identified
<b>Jackson Avenue</b>		
26-25 (Lot 2)	Constructed prior to 1898	None identified
26-21 (Lot 4)	Constructed between 1915 and 1936; no prior development identified	None identified
26-19 (Lot 5)	Constructed in 1960; prior developed as a 4-story store	<u>City Directories:</u> Transmission Co (1962-1967) and car inspection (1934)
26-15 (Lot 6)	Constructed in 1958; prior developed as a 3-story dwelling/store	<u>City Directories:</u> Car service shop (2005), tire shop (1991) <u>Sanborn Maps:</u> Auto-related uses (1977-2006)
26-09 and 26-11 (Lot 8)	Constructed in 1956; prior developed as three 4-story stores/apartments	<u>City Directories:</u> Queens Plaza Auto Parts (1991) <u>Sanborn Maps:</u> Auto-related uses (1993-1999), manufacturing (2001-2006)

A data gap was encountered in that the use of the subject property back to its first developed use could not be established from the reasonably ascertainable standard historical sources reviewed. This data gap is not expected to present an issue of environmental concern.

The historical sources reviewed show auto-related businesses on the subject property at Lot 38, Lot 39, Lot 41, Lot 5, Lot 6, and Lot 8; an unspecified manufacturing use on Lot 8; a metal products manufacturer and chemical company on Lot 38; a sheet metal company on Lot 41; and a medical laboratory on Lot 31. These findings are consistent with the observations made during the site visit. Lot 38 appears to still be utilized for auto-related use.

These auto-related, manufacturing, and laboratory uses of the subject property began operation at a time period that predates regulatory oversight for the storage and disposal of petroleum chemicals and petroleum waste, reporting requirements for spills and releases, and investigation and cleanup requirements for contamination. Therefore, the time period at which the former businesses operated at the subject property (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these previous uses a REC that will warrant further action.

The historical sources show numerous auto-related uses and commercial properties with gasoline tanks to the north, south, and east of the subject property. Of particular note is a gasoline filling station that has been located to the east of the subject property since 1970.

These auto-related businesses and the adjacent gasoline filling station began operation at a time period that predates regulatory oversight for the storage and disposal of petroleum chemicals and petroleum waste, reporting requirements for spills and releases, and investigation and cleanup requirements for contamination. Therefore time period at which the nearby sites began operation (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these surrounding sites a REC that will warrant further action.

#### **4.3.1 AERIAL PHOTOGRAPHS**

Due to the dense urban development of the subject property and surrounding areas, aerial photographs were determined not to be useful as a historical source and were not reviewed. The historical use of the subject property was determined using other standard historical sources.

#### **4.3.2 SANBORN FIRE INSURANCE MAPS**

Via ProQuest Information and Learning's Digital Sanborn Maps, the Library of Congress' collection of Sanborn Fire Insurance maps were reviewed to determine the construction date of the site improvements and prior development on the property. The Library of Congress' Sanborn map collection consists of a uniform series of large-scale

maps, dating from 1867 to the present, depicting the commercial, industrial, and residential sections of some 12,000 cities and towns in the United States, Canada, and Mexico. The maps were designed to assist fire insurance agents in determining the degree of hazard associated with a particular property and therefore show the size, shape, and construction of dwellings, commercial buildings, and factories as well as widths and names of streets, property boundaries, building use, and house and block numbers.

Sanborn Fire Insurance maps from 1898 through 2006 were obtained from Environmental Data Resources, Inc. (EDR) and reviewed to determine the prior development history of the property and construction date of the current site improvements. The use of the subject property as depicted on the Sanborn maps is summarized below.

### **1898 Sanborn Map**

- Lot 2 A 3-story store; *same structure that is currently on-site*
- Lot 4: Vacant undeveloped land
- Lot 5: : A 4-story store
- Lot 6: A 3-story dwelling
- Lot 8: Three 4-story stores
- Lot 12: Vacant undeveloped land
- Lot 31: Vacant undeveloped land
- Lot 35: Vacant undeveloped land
- Lot 36: A 1-story dwelling; *same structure that is currently on-site*
- Lot 37: A 1-story dwelling
- Lot 38: Two 2-story dwellings
- Lot 39: Vacant undeveloped land
- Lot 41: Vacant undeveloped land

### **1915 Sanborn Map**

- Lot 2 A 3-story store; *same structure that is currently on-site*
- Lot 4: Vacant undeveloped land
- Lot 5: : A 4-story store
- Lot 6: A 3-story dwelling/store
- Lot 8: Three 4-story stores
- Lot 12: Vacant undeveloped land
- Lot 31: Vacant undeveloped land
- Lot 35: Vacant undeveloped land
- Lot 36: A 1-story dwelling; *same structure that is currently on-site*
- Lot 37: A 1-story dwelling
- Lot 38: Two 2-story dwellings
- Lot 39: Vacant undeveloped land
- Lot 41: Vacant undeveloped land

### **1936 Sanborn Map**

- Lot 2 A 3-story store; *same structure that is currently on-site*
- Lot 4: A 3-story store; *same structure that is currently on-site*
- Lot 5: : A 4-story store
- Lot 6: A 3-story dwelling

- Lot 8: Three 4-story stores
- Lot 12: Vacant undeveloped land
- Lot 31: Vacant undeveloped land
- Lot 35: A 2-story dwelling; *same structure that is currently on-site*
- Lot 36: A 1-story dwelling; *same structure that is currently on-site*
- Lot 37: A 1-story dwelling
- Lot 38: Two 2-story dwellings and a 1-story auto radiator manufacturer; *same structure that is currently on-site*
- Lot 39: Vacant undeveloped land
- Lot 41: A 1-story auto body shop; *same structure that is currently on-site*

### **1947/1950 Sanborn Map**

- Lot 2 A 3-story store; *same structure that is currently on-site*
- Lot 4: A 3-story store; *same structure that is currently on-site*
- Lot 5: : A 4-story store
- Lot 6: A 3-story apartment building
- Lot 8: Three 4-story flats/apartment buildings
- Lot 12: Vacant undeveloped land
- Lot 31: Vacant undeveloped land
- Lot 35: A 2-story dwelling; *same structure that is currently on-site*
- Lot 36: A 1-story dwelling; *same structure that is currently on-site*
- Lot 37: A 2-story dwelling; *same structure that is currently on-site*
- Lot 38: A 1-story metal products manufacturer
- Lot 39: A 1-story office and warehouse; *same structure that is currently on-site*
- Lot 41: A 1-story tin shop; *same structure that is currently on-site*

### **1970 Sanborn Map**

- Lot 2 A 3-story store; *same structure that is currently on-site*
- Lot 4: A 3-story store; *same structure that is currently on-site*
- Lot 5: : A 4-story store; *same structure that is currently on-site*
- Lot 6: A 1-story glass works; *same structure that is currently on-site*
- Lot 8: A 2-story office/store; *same structure that is currently on-site*
- Lot 12: A 1-story bank and vacant/parking areas, constructed 1963; *same structure that is currently on-site*
- Lot 31: A 1-story loft building; *same structure that is currently on-site*
- Lot 35: A 2-story dwelling; *same structure that is currently on-site*
- Lot 36: A 1-story office; *same structure that is currently on-site*
- Lot 37: A 2-story dwelling; *same structure that is currently on-site*
- Lot 38: A 1-story auto repair shop
- Lot 39: Map is illegible, appears similar to 1950
- Lot 41: A 1-story storage building; *same structure that is currently on-site*

### **1977, 1979, 1980, 1985 and 1986 Sanborn Maps**

- Lot 2 A 3-story store; *same structure that is currently on-site*
- Lot 4: A 3-story store; *same structure that is currently on-site*
- Lot 5: : A 4-story store; *same structure that is currently on-site*
- Lot 6: A 1-story auto repair shop; *same structure that is currently on-site*
- Lot 8: A 2-story commercial structure; *same structure that is currently on-site*

Lot 12: A 1-story bank and vacant/parking areas, constructed 1963; *same structure that is currently on-site*  
Lot 31: A 1-story loft building; *same structure that is currently on-site*  
Lot 35: A 2-story dwelling; *same structure that is currently on-site*  
Lot 36: A 1-story dwelling; *same structure that is currently on-site*  
Lot 37: A 2-story dwelling; *same structure that is currently on-site*  
Lot 38: A 1-story auto repair shop  
Lot 39: A 1-story office and manufacturing; *same structure that is currently on-site*  
Lot 41: A 1-story auto repair shop; *same structure that is currently on-site*

### **1988, 1989, 1990, 1991, 1992 Sanborn Maps**

Lot 2 A 3-story store; *same structure that is currently on-site*  
Lot 4: A 3-story store; *same structure that is currently on-site*  
Lot 5: : A 4-story store; *same structure that is currently on-site*  
Lot 6: A 1-story auto repair shop; *same structure that is currently on-site*  
Lot 8: A 2-story 2-unit commercial structure; *same structure that is currently on-site*  
Lot 12: A 1-story bank and vacant/parking areas, constructed 1963; *same structure that is currently on-site*  
Lot 31: A 1-story lab building; *same structure that is currently on-site*  
Lot 35: A 2-story dwelling; *same structure that is currently on-site*  
Lot 36: A 1-story dwelling; *same structure that is currently on-site*  
Lot 37: A 2-story dwelling; *same structure that is currently on-site*  
Lot 38: A 1-story auto repair shop  
Lot 39: A 1-story office and manufacturing; *same structure that is currently on-site*  
Lot 41: A 1-story auto repair shop; *same structure that is currently on-site*

### **1993, 1994, 1995, 1996, and 1999 Sanborn Maps**

Lot 2 A 3-story store; *same structure that is currently on-site*  
Lot 4: A 3-story store; *same structure that is currently on-site*  
Lot 5: : A 4-story store; *same structure that is currently on-site*  
Lot 6: A 1-story repair shop (map is partly illegible); *same structure that is currently on-site*  
Lot 8: A 2-story 2-unit auto repair structure; *same structure that is currently on-site*  
Lot 12: A 1-story bank and vacant/parking areas, constructed 1963; *same structure that is currently on-site*  
Lot 31: A 1-story lab building; *same structure that is currently on-site*  
Lot 35: A 2-story dwelling; *same structure that is currently on-site*  
Lot 36: A 1-story dwelling; *same structure that is currently on-site*  
Lot 37: A 2-story dwelling; *same structure that is currently on-site*  
Lot 38: A 1-story auto repair shop  
Lot 39: A 1-story office and manufacturing; *same structure that is currently on-site*  
Lot 41: A 1-story auto repair shop; *same structure that is currently on-site*

### **2001, 2002, 2003, 2004, 2005, and 2006 Sanborn Maps**

Lot 2 A 3-story store; *same structure that is currently on-site*  
Lot 4: A 3-story store; *same structure that is currently on-site*  
Lot 5: : A 4-story commercial/flats building; *same structure that is currently on-site*  
Lot 6: A 1-story repair shop (map is partly illegible); *same structure that is currently on-site*

- Lot 8: A 2-story 2-unit warehouse/manufacturing structure; *same structure that is currently on-site*
- Lot 12: A 1-story bank and vacant/parking areas, constructed 1963; *same structure that is currently on-site*
- Lot 31: A 1-story lab building; *same structure that is currently on-site*
- Lot 35: A 2-story dwelling; *same structure that is currently on-site*
- Lot 36: A 1-story dwelling; *same structure that is currently on-site*
- Lot 37: A 2-story dwelling; *same structure that is currently on-site*
- Lot 38: A 1-story auto repair shop
- Lot 39: A 1-story office and manufacturing; *same structure that is currently on-site*
- Lot 41: A 1-story auto repair shop; *same structure that is currently on-site*

The Sanborn Fire insurance maps show auto-related businesses on the subject property at Lot 38 (circa 1936 and 1970-2006), Lot 41 (1936 and 1970-2006), Lot 6 (1977-2006), and Lot 8 (1993-1999); an unspecified manufacturing use on Lot 8 (2001-2006); a metal products manufacturer on Lot 38 (circa 1947-1950); and a laboratory on Lot 31 (1988-2006). These findings are consistent with the observations made during the site visit. Lot 38 appears to still be utilized for auto-related use. The auto-related, manufacturing, and laboratory uses of the subject property are a REC.

The use of the surrounding properties on the Sanborn Fire Insurance maps is summarized in the table below

<b>Year</b>	<b>North</b>	<b>South</b>	<b>East</b>	<b>West</b>
1898	Vacant lots and a few dwellings	A junkyard, stores, and a used building materials yard	Dwellings and stores	Vacant lots and a hospital
1915	Similar to 1898	Similar to 1898	Similar to 1898	Similar to 1898
1936	Vacant lots, an auto top factory with a gasoline tank (43-15 Crescent St.), an auto supply store with a gasoline tank (42-75 27 <sup>th</sup> St), dwellings, stores, an electric products company, a contractors yard with a gasoline tank (43-16 Crescent St.), and warehouses	A lumber company, stores, garages and warehouses with gasoline tanks (26-36 Jackson Ave., 44-25 and 44-33 Purves St., and 27-09 44 <sup>th</sup> Dr.), and a gasoline filling station (27-17 Thomson Ave.)	Stores, dwellings, two auto repair shops, and an auto service station with four gasoline tanks (27-25 Jackson Ave.)	Vacant lots, St. Johns hospital, offices, and dwellings
1947 and 1950	Similar to 1936 with the addition of a gasoline filling station with six gasoline tanks (43-01/5 Crescent St.)	Similar to 1936 except the garages are now used for other warehouse/contractor purposes and gasoline tanks are shown (44-13 and 44-33 Purves St. and 28-01 Thomson Ave. ) and the gasoline filling station (27-17 Thomson Ave.)	Stores, dwellings, an auto repair shop, small commercial businesses, and an auto service station with gasoline tanks (27-25 Jackson Ave.)	Similar to 1936

Year	North	South	East	West
1970, 1977, and 1979	Stores, parking lot, an auto repair shop, a gasoline filling station with six gasoline tanks (43-01/5 Crescent St.), and a large Federal Pacific Electric Co, metal pressing and stamping plant	A lumber company, stores, a junkyard, two warehouse/contractors with gasoline tanks (44-13 and 44-33 Purves St.) and the gasoline filling station (27-17 Thomson Ave.)	A filling station (same as current GasTrac), dwellings, stores, and loft buildings	Vacant lots (hospital has been razed), an office and a storage building
1980, 1985, and 1986	Similar to 1979 except the gasoline station is now an auto repair shop	Similar to 1979 except the gasoline station is now an auto repair shop, there are additional auto repair shops along Purves St. and 44 <sup>th</sup> Dr.	Similar to 1979	Similar to 1979
1988, 1989, 1990-1996	Similar to 1986 except the Federal Pacific Electric Co plant has been razed in 1990	Similar to 1986	Similar to 1986	A vacant lot and CitiCorp. offices high-rise office building
1999-2006	Similar to 1996 except several small stores and dwellings have been razed	Similar to 1996	Similar to 1996	Similar to 1996 with the addition of Rafferty Triangle Park

The Sanborn Fire Insurance maps show numerous auto-related uses and commercial properties with gasoline tanks to the north, south, and east of the subject property. Of particular note is a gasoline filling station that has been located to the east of the subject property since 1970. These auto-related uses and commercial properties with gasoline tanks are a REC.

### 4.3.3 TAX ASSESSOR RECORDS

Tax assessment records were reviewed on-line at the New York City Department of Finance web page <http://www.nyc.gov/html/dof/html/home/home.shtml>. The tax assessor records show the Tax Block and Lot number of each lot, the lot dimensions, and the dimensions of the structures on-site. A full copy of the tax assessor records are in Appendix F. The tax assessor records do not provide any information of environmental concern.

### 4.3.4 RECORDED LAND TITLE RECORDS

Land title records were reviewed online at the New York City Department of Finance Automated City Register Information System (ACRIS) (<http://a836-acris.nyc.gov/Scripts/DocSearch.dll/BBLResult>). The records date from 1967 to 2010 and include numerous property transactions for the 13 lots. All but one of the lots (Lot 38) is owned by Rockrose LIC. Lot 38 is owned by PAR 328 Associates Inc. The following lots showed owners of potential environmental concern: Lot 31 shows transactions by Centralized Laboratory Services from 1980 to 2006 and Lot 41 showed

transactions by Atkinson Auto Service from 1981 to 1990. The remainder of the transactions involved individuals or businesses that are not of obvious environmental concern. A full list of the records available from ACRIS for the subject property is included in Appendix F.

#### 4.3.5 TOPOGRAPHIC MAPS

A United States Geological Survey (USGS) 7.5-Minute Topographic Map for the subject property was reviewed at MSR Maps (<http://msrmaps.com/>). A topographic map from 1995 was available for the subject property. The information from the topographic map is summarized in the table.

Year	Subject Property	North	South	East	West
1995	Shaded pink, indicating a developed area				

#### 4.3.6 CITY DIRECTORIES

A review of city directories for the subject property from 1922 to 2005 was obtained from Environmental Data Resources, Inc. The information from the city directories is summarized in the table below.

Subject Property Address	Uses
<b>43<sup>rd</sup> Avenue</b>	
27-02 (Lot 38)	Numerous auto body shops and auto service shops (1967-2005), Hamilton Forge and Manuf. Co.(1945), Neodyne Chemical Co. (1939)
27-06 (Lot 39)	Auto repair (2000), Albert Gas Svce (1983), Transformer Sales Co. (1962)
27-10 (Lot 41)	Atkinson Auto Svce (1983 and 1991), Sheet Metal Co. (1945), Auto Body shop (1935)
<b>44<sup>th</sup> Drive</b>	
20-25 (Lot 12)	No listings
25-25 (Lot 12)	No listings of obvious environmental concern
<b>Hunter Street</b>	
43-25 (Lot 31)	Centralized Lab Services (1967-2005)
43-15 (Lot 35)	No listings of obvious environmental concern
43-11 (Lot 36)	No listings of obvious environmental concern
43-09 (Lot 37)	No listings of obvious environmental concern
<b>Jackson Avenue</b>	
26-25 (Lot 2)	No listings of obvious environmental concern
26-21 (Lot 4)	No listings of obvious environmental concern
26-19 (Lot 5)	Transmission Co (1962-1967) and car inspection (1934)
26-15 (Lot 6)	Car service shop (2005), tire shop (1991)
26-11 (Lot 8)	No listings of obvious environmental concern
26-09 (Lot 8)	Queens Plaza Auto Parts (1991)

The city directories show several auto-related uses, a laboratory, a sheet metal company, a transformer sales company, and a chemical company that are RECs and are of environmental concern. These listings are located on Lots 38, 39, 41, 31, 5, 6, and 8. These listing are consistent with the information obtained from other historical resources.

#### 4.3.7 BUILDING RECORDS

Building records from the New York City Department of Buildings Building Information System website (<http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp>) were reviewed to determine the prior uses of the subject property and the construction date of the buildings on-site. The records of historical and environmental significance are summarized below.

Subject Property Address	Building Record Summary
<b>43<sup>rd</sup> Avenue</b>	
27-02 (Lot 38)	<ul style="list-style-type: none"> <li>▪ This lot is classified as G9 – Garage/Gas Station</li> <li>▪ This lot is an E-designated site</li> <li>▪ New Building permits from 1921, 1922, and 1934</li> <li>▪ 1967 and 1998 Certificates of Occupancy (CO) for a 1-story plus basement automobile sales, service and body shop</li> <li>▪ A 1994 permit to add a second floor</li> </ul>
27-06 (Lot 39)	<ul style="list-style-type: none"> <li>▪ This lot is classified as G9 – Garage/Gas Station</li> <li>▪ This lot is an E-designated site</li> <li>▪ A 1949 CO for a 1-story office and storage building with a basement boiler room</li> <li>▪ A 1955 CO for a 1-story office and hardware/welding supply store with a basement boiler room</li> <li>▪ A 1990 permit to replace an oil boiler and burner</li> <li>▪ a 1996 permit to convert the building from a hardware store to an auto repair shop</li> <li>▪ A 1997 CO for a 1-story plus basement auto repair shop</li> </ul>
27-10 (Lot 41)	<ul style="list-style-type: none"> <li>▪ This lot is classified as G9 – Garage/Gas Station</li> <li>▪ This lot is an E-designated site</li> <li>▪ A 1928 New Building permit</li> <li>▪ 1992 and 1993 permits to install rooftop package HVAC units</li> </ul>
<b>44<sup>th</sup> Drive</b>	
20-25 (Lot 12)	<ul style="list-style-type: none"> <li>▪ This lot is classified as O9 – Office Building</li> <li>▪ This lot is an E-designated site</li> <li>▪ A 1964 CO for a newly constructed 1-story bank</li> <li>▪ New Building permits from 1911, 1924, 1926, 1945, and 1963</li> </ul>
25-25 (Lot 12)	<ul style="list-style-type: none"> <li>▪ This lot is classified as O9 – Office Building</li> <li>▪ This lot is an E-designated site</li> </ul>
<b>Hunter Street</b>	
43-25 (Lot 31)	<ul style="list-style-type: none"> <li>▪ This lot is classified as F1 – Factory/Industrial</li> <li>▪ This lot is an E-designated site</li> <li>▪ A 1923 CO for a 2-story dwelling</li> <li>▪ New Building permits from 1923 and 1960</li> </ul>

Subject Property Address	Building Record Summary
	<ul style="list-style-type: none"> <li>▪ A 1960 CO for a newly constructed two-story office, storage, and factory building</li> <li>▪ A 1994 for a 2-story medical laboratory and office building</li> <li>▪ A 2004 permit to install a diesel emergency generator with a 650-gallon storage tank in an outdoor enclosure</li> </ul>
43-15 (Lot 35)	<ul style="list-style-type: none"> <li>▪ This lot is classified as B2 – 2-family dwelling</li> <li>▪ This lot is an E-designated site</li> <li>▪ New Building permits from 1914, 1920, and 1923</li> </ul>
43-11 (Lot 36)	<ul style="list-style-type: none"> <li>▪ This lot is classified as F1 – Factory/Industrial</li> <li>▪ This lot is an E-designated site</li> <li>▪ New Building permits from 1919 and 1923</li> <li>▪ A 1924 CO for a factory</li> <li>▪ A 1981 CO for a 1-story contractor’s office and yard, and a basement boiler room</li> <li>▪ An undated Gas Application</li> </ul>
43-09 (Lot 37)	<ul style="list-style-type: none"> <li>▪ This lot is classified as B2 – 2-family dwelling</li> <li>▪ This lot is an E-designated site</li> <li>▪ An undated Gas Application and one from 1914</li> </ul>
<b>Jackson Avenue</b>	
26-25 (Lot 2)	<ul style="list-style-type: none"> <li>▪ This lot is classified as S2 – Residence Multi-U</li> <li>▪ This lot is an E-designated site</li> <li>▪ A 1991 permit to install deli equipment in an existing store</li> </ul>
26-21 (Lot 4)	<ul style="list-style-type: none"> <li>▪ This lot is classified as S2 – Residence Multi-U</li> <li>▪ This lot is an E-designated site</li> <li>▪ A 2010 permit for the replacement of boilers and hot water heaters</li> </ul>
26-19 (Lot 5)	<ul style="list-style-type: none"> <li>▪ This lot is classified as K9 – Store Building</li> <li>▪ This lot is an E-designated site</li> <li>▪ A Demolition Permit from 1954</li> <li>▪ A New Building permit from 1960</li> <li>▪ A 1972 CO for a 2-story store/office building with a basement</li> </ul>
26-15 (Lot 6)	<ul style="list-style-type: none"> <li>▪ This lot is classified as G9 – Garage/Gas Station</li> <li>▪ This lot is an E-designated site</li> <li>▪ A Demolition Permit from 1957</li> <li>▪ A New Building Permit from 1958</li> <li>▪ A 1961 CO for a 1-story building with a basement used as office, storage, and auto glass repair; references a 1958 New Building permit</li> </ul>
26-09 and 26-11 (Lot 8)	<ul style="list-style-type: none"> <li>▪ This lot is classified as F1 – Factory/Industrial</li> <li>▪ This lot is an E-designated site</li> <li>▪ A Demolition Permit from 1954</li> <li>▪ New Building Permits from 1934 and 1954</li> <li>▪ A 1956 CO for a newly constructed 1-story building with basement and used as sales and service of business machines</li> <li>▪ A 1998 permit for the installation of a paint spray booth</li> </ul>

#### **4.3.8 ZONING AND LAND USE RECORDS**

Zoning maps were reviewed at the New York City Department of City Planning website (<http://www.nyc.gov/html/dcp/html/zone/zonedex.shtml>). According to a review of the local zoning map, the subject property is zoned M1-6/R10 indicating manufacturing and residential use.

#### **4.3.9 INTERVIEWS**

Mr. Louis Yu, Senior Project Manager at Rockrose Development Corp, was interviewed regarding current and former uses of the subject property. Mr. Yu has been familiar with the subject property for the past six months and provided the following information:

- The subject property consists of the following 13 lots on Block 433: 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41
- The structures on the lots is scheduled to be either renovated or demolished.
- The structures on the lots are mostly vacant; some are occupied as temporary arts spaces (galleries, studios, etc...) and some are under renovation.
- He was unfamiliar with the construction dates or development history of the subject property.
- He was not aware of any active petroleum/chemical underground storage tanks on-site.
- He was not aware of any groundwater monitoring wells, irrigation wells, or septic tank systems located on the subject property.
- Domestic water and sanitary sewer service is provided by the City of New York. Electric and gas service for the property is provided by Consolidated Edison Company of New York.
- He was not aware of any past, current, or pending liabilities, notices, or violations of environmental laws associated with the subject property or any previous environmental assessments or audits for the subject property.

#### **4.3.10 PREVIOUS REPORTS**

The investigative parties were not provided with any previous reports prepared for the subject property.

## **5.0 SITE RECONNAISSANCE FINDINGS**

On June 13, 2012, Ms. Laura DiGiovanni, an Environmental Professional of Velocity, and Mr. Rahul Bhatia and Mr. Kevin McGuinness of Fleming Lee Shue conducted a site reconnaissance of the property to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the subject property. On the day of the site reconnaissance, the weather was cloudy and approximately 70 degrees Fahrenheit. Ms. DiGiovanni, Mr. Bhatia, and Mr. McGuinness were accompanied and provided access to the property by Mr. Louis Yu, Senior Project Manager at Rockrose Development Corp.

The site reconnaissance of the subject property consisted of visual and/or physical observations of the property and site improvements. Unimproved portions of the property (if any) were observed along the perimeter and in a general grid pattern in safely accessible areas.

Access was not gained to the 2-story structures on Lots 37 and 38. The 2-story structure on Lot 37 is occupied by residential tenants. The 2-story structure on Lot 38 appears to be an auto repair garage and Rockrose Development Corp. is not yet in possession of this lot. Therefore, Velocity is unable to render an opinion as to the possible environmental issues that exist in these areas.

### **5.1 PETROLEUM STORAGE TANKS**

#### **5.1.1 UNDERGROUND STORAGE TANKS**

Velocity did not identify any active underground storage tanks (USTs) on-site.

An unlabeled manway was observed on the concrete floor of the 1-story garage building on Lot 39. The manway suggests the presence of an oil/water separator or an UST. Historic sources reviewed show that this building was formerly occupied as an auto repair shop, a transformer sales company, and unspecified manufacturing use.

None of the historical records or regulatory databases reviewed suggests the presence of additional USTs on the subject property.

No evidence of fill caps or vent pipes associated with potential USTs were identified on-site. No saw cuts on paved surfaces, disturbed pavements, or additional unlabeled manways that are typically associated with USTs were identified on the subject property.

### 5.1.2 ABOVEGROUND STORAGE TANKS

Nine fuel oil aboveground storage tanks (ASTs) were observed in the basement areas on-site. The ASTs all appeared inactive and had no evidence of spills or leaks. Several of the ASTs were rusted. The ASTs observed on-site are summarized below.

Location	Tank	Comments
27-10 43 <sup>rd</sup> Avenue (Lot 41) basement	275-gallon fuel oil AST	AST is situated above a concrete floor; no leaks or spills noted; AST is rusted and appears inactive; no fill cap or vent pipes observed
43-15 Hunter Street (Lot 35) basement	275-gallon fuel oil AST situated on a concrete floor	AST is situated above a concrete floor; no leaks, spills, or deterioration noted; AST appears inactive; fill cap and vent pipe observed at exterior of front basement wall
26-25 Jackson Avenue (Lot 2) basement	Two 275-gallon fuel oil ASTs situated on a concrete floor	ASTs are situated above a concrete floor; no leaks or spills noted; ASTs appear inactive and have a minor amount of rust; fill cap and vent pipe observed at front of building near basement door
26-15 Jackson Avenue (Lot 6) basement	Two 275-gallon fuel oil ASTs situated on a concrete floor	ASTs are situated above a concrete floor; no leaks, spills, or deterioration noted; ASTs appear inactive; fill cap and vent pipe labeled as fuel oil were observed at front of building in loading area
26-11 Jackson Avenue (Lot 8) basement	Approximate 1,000-gallon fuel oil AST in the basement	AST located within a concrete enclosure with weepholes; no leaks, spills, or deterioration noted; AST appears inactive; fill cap and vent pipe observed at front of building
26-09 Jackson Avenue (Lot 8) basement	Two 275-gallon fuel oil ASTs in the basement	ASTs are situated above a concrete floor; no leaks, spills, or deterioration noted; ASTs appear inactive; fill cap observed at front of building
27-06 43 <sup>rd</sup> Avenue (Lot 39) basement	275-gallon fuel oil AST	AST is situated above a concrete floor; no leaks or spills noted; AST is rusted and appears inactive; fill cap observed at front of building

In addition to the above list, a fill cap and vent pipe were observed on the sidewalk adjacent to the building on Lot 37 (43-09 Hunter Street). Since access to this building was not available, it is unclear if the fill cap and vent pipe are associated with an UST or an AST in the basement of this building. Based on the small size of the building and its historic residential use, it is likely that the fill cap and vent pipe are associated with a fuel oil AST in the basement of this building.

Wastewater process tanks were observed in the laboratory building on Lot 31. The tanks consist of an approximate 100-gallon wastewater holding tank and 5-gallon process tanks labeled as sodium hydroxide and hydrochloric acid. The tanks are constructed of plastic, were in good condition, and appear to be associated with a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer.

None of the historical records or regulatory databases reviewed suggests the presence of additional ASTs on the subject property.

## **5.2 CHEMICAL STORAGE AND USAGE**

Small quantities of abandoned cleaning and maintenance chemicals were observed throughout the areas inspected.

Three empty unlabelled 55-gallon drums (two indoors, and one outdoors) were observed at the building on Lot 6.

Laboratory-sized containers of absorbants and neutralizers for acid spills were observed in the laboratory building on Lot 31. Several locked closets labeled as chemical storage were present on the lower level of the laboratory building on Lot 31. Unidentified rust-colored liquids were observed to be stored in one-gallon containers of bleach, motor oil, and beverage containers in an empty room on the lower level of the laboratory building on Lot 31.

No leaks or spills were observed in association with the chemical containers on-site.

No other areas of chemical storage were observed on the subject property.

## **5.3 EVIDENCE OF CHEMICAL SPILLS**

No evidence of chemical spills or staining was observed in any of the areas inspected on-site. In addition, no visual indication of spills such as stressed vegetation or discolored soil was identified on-site.

## **5.4 ODORS**

No strong, pungent, or noxious odors were encountered on-site.

## **5.5 PITS, PONDS, AND LAGOONS**

A shallow rectangular concrete pit was observed on Lot 39. The purpose of the pit is unknown but is assumed to be associated with former automotive maintenance activities.

No other pits or ponds or lagoons were observed on-site during the site visit.

## **5.6 POLYCHLORINATED BIPHENYLS (PCBs)**

Polychlorinated biphenyls are mixtures of up to 209 individual chlorinated compounds (known as congeners). PCBs have been used as coolants and lubricants in transformers, capacitors, other electrical equipment and hydraulic systems because they don't burn easily and are good insulators. PCBs were banned in the United States in 1979 because of evidence they build up in the environment and can cause harmful health effects. However, products including transformers, hydraulic compactors, hydraulic lifts, and old fluorescent lighting fixtures made before 1979 may contain PCBs.

PCB-containing materials are classified according to the concentration of PCBs present. There are three classifications of PCB-containing materials:

PCB	≥500 parts per million (ppm)
PCB-contaminated	≥50 to <500 ppm
Non-PCB	<50 ppm

The USEPA regulates the use, storage and disposal of PCB and PCB-containing transformers.

Electricity is supplied to the subject property by the Consolidated Edison of New York (ConEd).

### **5.6.1 ELECTRICAL TRANSFORMERS**

No electrical transformers were identified on-site.

### **5.6.2 HYDRAULIC ELEVATORS AND LIFTS**

A hydraulic elevator was observed on Lot 8 at 26-11 Jackson Avenue. The hydraulic mechanical unit was located in the basement and appeared free of stains or leaks.

A hydraulic lift for wheelchairs was observed in the building on Lot 31. The lift appeared free of stains or leaks.

Interior markings on the rear portion of the ground floor of Lot 6 suggest the location of a former hydraulic lift. This building has a history of auto repair.

Lots 8, 38, 39, and 41 also have a history of auto repair use. Hydraulic lifts may have been located in the structures on these lots.

### **5.6.3 HYDRAULIC COMPACTORS**

No hydraulic compactors were identified on-site.

## **5.7 WASTE DISPOSAL**

### **5.7.1 NON HAZARDOUS SOLID WASTE**

No treatment of solid waste was observed on-site. Solid waste generated by residential tenants on-site is bagged and placed on the curb for collection by the New York City Department of Sanitation. Solid waste generated by the non-residential tenants is collected by private solid waste disposal companies. No evidence of improper waste disposal activities was observed.

It is assumed that the property was graded to construct the site improvements on-site. No areas that are apparently filled or graded by non-natural causes, mounds, or depressions suggesting trash construction debris, demolition debris, or other solid waste disposal was observed on-site.

### **5.7.2 HAZARDOUS WASTE**

No hazardous waste is generated on-site.

### **5.7.3 OTHER REGULATED WASTES**

No other regulated wastes are generated on-site.

### **5.7.4 SANITARY WASTEWATER**

The sanitary wastewater generated on-site is discharged into the New York City sewer system.

No hazardous or process wastewater is generated on-site. No septic systems were observed on-site. No evidence of improper wastewater disposal activities was observed.

Abandoned equipment at the laboratory building on Lot 31 suggests the presence of a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer. The equipment includes a large approximate 100-gallon holding tank, 5-gallon tanks labeled as sodium hydroxide and hydrochloric acid, and a control panel for acid and caustic pumps. The majority of the laboratory sinks were equipped with collection systems on their sanitary discharge plumbing. No spills, leaks, or issues of concern were observed in association with the wastewater treatment equipment.

### **5.7.5 STORM WATER**

On-site storm water management is provided by roof surface pitch to interior drains and gutters and downspouts which connect to the outgoing sewer mains. The parking areas have catch basin drains that connect to the outgoing sewer mains.

The subject property did not appear to accept storm water drainage from off-site sources.

The storm water flow along the sidewalks fronting the property is diverted via sheet flow to municipal storm sewers located on the adjacent streets. No recognized environmental conditions were identified in connection with the storm water management.

## 5.8 HEATING SYSTEM

Below is a summary of the heating systems observed on-site.

Subject Property Address	Heating System
<b>43<sup>rd</sup> Avenue</b>	
27-02 (Lot 38)	No access
27-06 (Lot 39)	An inactive 275-gallon fuel oil AST suggests a fuel oil-fired heating system
27-10 (Lot 41)	An inactive oil-fired heating system consisting of an oil-fired boiler and a 275-gallon fuel oil aboveground storage tank (AST) in a small vaulted basement
<b>44<sup>th</sup> Drive</b>	
20-25 (Lot 12)	Natural gas and electric rooftop heating ventilation and air conditioning (HVAC) units
25-25 (Lot 12)	
<b>Hunter Street</b>	
43-25 (Lot 31)	Natural gas and electric rooftop HVAC units
43-15 (Lot 35)	An inactive oil-fired heating system consisting of an oil-fired boiler and a 275-gallon fuel oil AST in the basement
43-11 (Lot 36)	No heating system observed
43-09 (Lot 37)	No access
<b>Jackson Avenue</b>	
26-25 (Lot 2)	An inactive oil-fired heating system consisting of an oil-fired boiler and two 275-gallon fuel oil ASTs in the basement
26-21 (Lot 4)	An inactive natural gas-fired heating system consisting of two natural gas-fired boilers and three hot water heaters in the basement
26-19 (Lot 5)	Ceiling-mounted blower heaters, assumed to be powered by electric or natural gas
26-15 (Lot 6)	An inactive oil-fired heating system consisting of two 275-gallon fuel oil ASTs in the basement; no boiler observed
26-11 (Lot 8)	An inactive oil-fired heating system consisting of an oil-fired boiler and an approximate 1,000-gallon fuel oil AST in the basement. An active natural gas and electric HVAC unit was observed on the first floor.
26-09 (Lot 8)	An inactive oil-fired heating system consisting of an oil-fired boiler and two 275-gallon fuel oil ASTs in the basement

## 5.9 WELLS, SUMPS, AND FLOOR DRAINS

No dry wells, irrigation wells, injection wells, or water supply wells were observed on the subject property.

A sump pit was observed on the lower level of the laboratory building on Lot 31. The sump had a metal cover and the interior of the sump pit was not visible. A sump pit was also observed in the basement of the building on Lot 4. This sump was free of staining.

Catch basin drains were observed in the following areas: the paved parking lot on Lot 12, the loading dock area on Lot 31, the ground floor of the building on Lot 6, the basement area of the building on Lot 4, and the ground floor of the building on Lot 41. The floor drains appeared in good condition and free of visible stains. Small metal plates and a shallow pit that are possibly associated with floor drains were observed on Lot 39.

A groundwater monitoring well was observed on the 43<sup>rd</sup> Avenue sidewalk to the southeast of Lot 41 (off-site).

## 6.0 NON-ASTM SCOPE CONSIDERATIONS

### 6.1 ASBESTOS

#### Background

Asbestos is a group of naturally occurring fibrous silicate minerals that have been mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. Unless it is labeled, asbestos can only be identified by laboratory analysis. When disturbed, asbestos fibers become airborne and may be inhaled into the lungs, where they may cause significant health problems. Although a “safe level” of exposure to asbestos has not been determined, researchers know the greater and longer the exposure, the greater the risk of contracting an asbestos-related disease. High levels of asbestos exposure can lead to lung cancer, mesothelioma, and asbestosis.

The United States Environmental Protection Agency (USEPA) defines an asbestos-containing material (ACM) as a material that contains greater than 1% asbestos. ACMs are classified as either friable (can be crushed by hand pressure) or non-friable (can not be crushed by hand pressure). Friable ACMs commonly found in structures include thermal system insulation, spray-on fireproofing, and acoustical ceiling tiles. Non-friable ACMs commonly found in structures include vinyl floor tiles, adhesives, and roofing materials.

#### Scope of Limited Survey

In structures constructed prior to 1985, a limited asbestos survey was performed. The limited asbestos survey consists of the identification of suspect asbestos-containing materials and a summary of the approximate quantity, condition, and location of the asbestos-containing materials. The purpose of the limited asbestos survey is to identify readily accessible asbestos-containing materials in representative areas only. The limited asbestos survey does not include areas that are not readily accessible or are hidden by building components. The limited asbestos survey is not meant to serve as a full asbestos survey or to render a property asbestos-free. The results of the limited asbestos survey are below.

#### Limited Survey Results

Friable suspect asbestos-containing (SAC) pipe insulation was observed on pipes on the first floor of the building on Lot 8 (26-11 Jackson Avenue). The friable SAC insulation was in good to fair condition. All remaining exposed pipes throughout the inspected areas were bare.

Non-friable SAC vinyl floor tiles and friable SAC acoustic ceiling tiles were observed in various areas throughout the buildings. The SAC floor and ceiling tiles ranged from good to poor condition. The roofing materials are assumed to be a SAC material. In addition, based on the construction dates of the site improvements (prior to 1985), it is possible that other SAC materials are located on-site.

## **6.2 LEAD-BASED PAINT**

Lead is a highly toxic metal that was used for many years in products found in and around our homes. Lead may cause a range of health effects, from behavioral problems and learning disabilities, to seizures and death. When absorbed into the body through inhalation or ingestion, lead can be highly toxic and is particularly damaging to the neurological development of young children. Ingestion of lead-contaminated surface dust from sources such as damaged paint is the most common pathway of childhood lead poisoning.

The Federal Consumer Product Safety Commission banned lead-based paint from housing in 1978. According to the USEPA, approximately three-quarters of the nation's housing stock built before 1978 (approximately 64 million dwellings) contains some lead-based paint. When properly maintained and managed, this paint poses little risk.

To protect families from exposure to lead from paint, dust and soil, Congress passed the Residential Lead-Based Paint Hazard Reduction Act (also known as Title X) in 1992. Section 1018 of this law directed the Department of Housing and Urban Development (HUD) and the EPA to require the disclosure of known information on lead-based paint and lead-based paint hazards before the sale or lease of most housing constructed before 1978. Title X ensures that renters and purchasers of housing constructed prior to 1978 receive the information necessary to protect themselves and their families from lead-based paint hazards.

Painted surfaces throughout the inspected portions of the property were in fair condition. Given the construction date of the site improvements (prior to 1978) it is possible that subsurface layers of paint contain lead.

## **6.3 RADON**

Radon is an odorless, colorless radioactive gas that occurs from the natural breakdown of radium, uranium, and thorium. Radon gas causes cancer and can increase to harmful levels in enclosed unventilated spaces. Indoor radon gas levels depend primarily on underlying geologic formations and building construction characteristics.

The USEPA and the Centers for Disease Control and Prevention have used a continuous exposure of 4.0 picoCuries per liter (pCi/L) of air as the suggested remedial action level for radon exposure. The USEPA's Map of Radon Zones assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential:

- Zone 1 counties have a predicted average indoor radon screening level greater than 4 pCi/L (pico curies per liter) (red zones)

- Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 pCi/L (orange zones)
- Zone 3 counties have a predicted average indoor radon screening level less than 2 pCi/L (yellow zones)

According to the USEPA radon zone map, the subject property is located in Zone 3, which has a predicted average radon concentration that is less than 2.0 pCi/L. This is below the recommended action level.

## **6.4 LEAD IN DRINKING WATER**

The EPA issued the Lead and Copper Rule for drinking water in 1992. This rule required public water systems to sample and test their drinking water for lead contamination, implement appropriate corrosion control treatments, and replace lead service lines where water samples continue to exceed the EPA's recommended action level for lead. The action level, which applies to both public water systems and residences, was established at 15 micrograms per liter (ug/L). The EPA recommends that the owners of multi-family residential buildings notify their tenants if lead in drinking water levels are found to exceed the action level.

The subject property uses potable water supplied by the City of New York. The USEPA maximum allowable level of lead in drinking water is 15 parts per billion (ppb). According to the New York City 2011 Drinking Water Supply and Quality Report (<http://www.nyc.gov/html/dep/pdf/wsstate11.pdf>) issued by the New York City Department of Environmental Protection (NYCDEP), New York City's drinking water meets current USEPA requirements for lead in drinking water.

## **6.5 MOLD**

Mold (also known as fungi) is present *everywhere* - indoors and outdoors, in homes, hospitals, and workplaces. There are over 100,000 species of mold. Of this amount at least 1,000 species are common in the United States. Most types of mold that are routinely encountered on non-agricultural properties are not hazardous to healthy individuals. However, large or lengthy exposures to mold have the potential to cause health problems. Since mold is ubiquitous in our environment, elimination of all mold is practically impossible. Mold spores generally only have the potential to cause problems when present in large numbers. Therefore, the best way to prevent mold problems is to prevent mold *growth*.

The majority of the basement areas were musty and numerous areas of water intrusion and water damage were observed in the basement and unoccupied upper floor areas. Areas of mold growth were observed in the following areas: the basement and 3<sup>rd</sup> floor on Lot 2, the basement on Lot 5, and the second floor of Lot 35. Since the buildings on-

site are all scheduled to be either renovated or demolished, the areas of mold growth and water intrusion are not an issue of concern. This report is not to be considered a full mold investigation, which would involve destructive sampling and significant laboratory analysis.

## 7.0 FINDINGS

The investigative parties have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of the property located at Block 433, Lots 2, 4, 5, 6, 8, 12, 31, 35, 36, 37, 38, 39, and 41, New York City, Queens County, New York, 11101. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the subject property except for the following:

### ASTM Recognized Environmental Conditions

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- The historical sources reviewed show auto-related businesses on the subject property at Lot 38, Lot 39, Lot 41, Lot 5, Lot 6, and Lot 8; an unspecified manufacturing use on Lot 8; a metal products manufacturer and chemical company on Lot 38; a sheet metal company on Lot 41; and a medical laboratory on Lot 31. Therefore, the time period at which the former businesses operated at the subject property (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these previous uses a REC that will warrant further action.
- The historical sources reviewed show numerous auto-related uses and commercial properties with gasoline tanks to the north, south, and east of the subject property. During the site visit, auto-related businesses were observed to the south and east of the subject property. A Gas Trac gasoline filling station is located across the street to the east of the subject property. A gasoline filling station has been present at this location since circa 1970. The regulatory database review shows that in 2000 Gas Trac (known then as Gas Go) removed ten 550-gallon fuel oil USTs and approximately 700 tons of petroleum-impacted soil from its premises. The UST and soil removal activities were overseen and granted closure by the NYSDEC under Spill #9913082. Therefore, the time period at which the nearby sites began operation (prior to regulatory oversight), and the general tendency of these operations to negatively impact a property, make these surrounding sites a REC that will warrant further action.
- The subject property has a NYCOER E-Designation for underground storage tanks and for Window Wall Attenuation and Alternate Ventilation. The E-Designation will restrict the submittal of applications to the NYCDOB for site redevelopment unless NYCOER approval has been obtained. Approval by the NYCOER typically includes subsurface investigative activities and possibly cleanup activities. The listing of the subject property as an E-Designated site is a REC that will warrant further action if the property is to be redeveloped.

- The regulatory database review identified the following four nearby sites that have the potential to impact the subject property and are RECs:
  1. A NYSDEC Voluntary Cleanup Program (VCP) Database site known as Outlet City Queens Boulevard and Jackson Avenue (Site #V00081) is located approximately 0.14 miles to the northeast and upgradient from the subject property. Soil and groundwater at this site is contaminated with creosote, petroleum, and solvents.
  2. A NYSDEC Brownfields Site known as Queens Plaza Residential Development (Site #C241105) is located approximately 0.15 miles to the east of and upgradient from the subject property. This site is a subset of the NYSDEC VCP Database site above.
  3. A NYSDEC Brownfields Site known as Former Neptune Meter Site (Site # C241138) is located approximately 0.20 miles to the east of and upgradient from the subject property. Soils at this site have been impacted with VOCs, SVOCs, and metals. No groundwater or soil vapor data is available for this site.
  4. A NYSDEC Registered Storage Tank (RST) site known as GasGo Petroleum at 27-01 Jackson Avenue (the current Gas Trac gasoline filling station across the street to the east) has four active 4,000-gallon gasoline USTs that were installed in 2000, and ten 550-gallon gasoline USTs that were installed in 1966 and removed in 2000. As discussed earlier, this adjacent gasoline station has been operating at this location since 1970 and is a REC due to its long history of petroleum use that predates environmental regulations.
- An unlabeled manway was observed on the concrete floor of the 1-story garage building on Lot 39. The manway suggests the presence of an oil/water separator or an UST. The potential presence of a UST or oil/water separator on this lot is a REC that warrants further action.
- Interior markings on the rear portion of the ground floor of Lot 6 suggest the location of a former hydraulic lift. Lots 8, 38, 39, and 41 also have a history of auto repair use. Hydraulic lifts may have been located in the structures on these lots. The potential presence of hydraulic lifts on the subject property is a REC.
- Nine inactive fuel oil aboveground storage tanks (ASTs) were observed in the basement areas on-site. Based on their inactive status and that the structures on-site are all scheduled to be either renovated or demolished, these ASTs are a REC that warrants further action.
- Three abandoned 55-gallon drums were observed at the building on Lot 6. Numerous abandoned small containers of absorbants, neutralizers for acid spills, and unidentified substances were observed in the laboratory building on Lot 31. Several locked closets labeled as chemical storage were present on the lower level of the laboratory building on Lot 31. In addition, abandoned equipment at the laboratory building on Lot 31 suggests the presence of a wastewater treatment system to adjust the pH of wastewater prior to discharge to the public sanitary sewer. The equipment includes a large approximate 100-gallon holding tank, 5-gallon tanks labeled as sodium hydroxide and hydrochloric acid, and a control

panel for acid and caustic pumps. These abandoned chemical containers and equipment are a REC.

#### Non-ASTM Environmental Concerns

This assessment identified evidence of environmental concerns associated with the following non-ASTM scope considerations:

- All of the buildings are known to have been constructed prior to 1978 and have the potential to contain asbestos-containing materials. Friable suspect asbestos-containing (SAC) pipe insulation was observed on pipes on the first floor of the building on Lot 8 (26-11 Jackson Avenue). Non-friable SAC vinyl floor tiles and friable SAC acoustic ceiling tiles were observed in various areas throughout the buildings. The roofing materials are assumed to be a SAC material.
- Fluorescent light ballasts were identified throughout the buildings. Based on the age of the structures, it is possible that PCBs may be present in the ballasts.
- Based on the age of the structures, it is possible that lead-based paint may be present.

It is recommended that a Phase II assessment be conducted on-site to address the following concerns:

- Determine whether the historic and current use of the subject property and surrounding area for auto-related and manufacturing uses have impacted the subsurface beneath the subject property.
- Determine whether the four regulatory database sites above have impacted the subsurface beneath the subject property.
- Gain NYCOER approval to satisfy E-Designation requirements.
- Investigate the presence of an UST or oil/water separator on Lot 39.
- Investigate the presence of abandoned or former underground hydraulic lifts on Lots 6, 8, 38, 39, and 41.

In addition, it is recommended that the following activities be completed:

- The nine inactive fuel oil ASTs observed in the basement areas on-site should be removed in accordance with NYSDEC and New York City Fire Department (NYCFD) guidelines.
- All abandoned drums, chemicals, and chemical containers should be characterized and properly disposed.
- During the renovation and demolition activities, all applicable Federal, State and Local regulations should be followed so as to minimize the release of asbestos, lead-based paint, and PCBs.

## 8.0 REFERENCES

Item	Dates(s)	Source
Topographic Map	1995	Map produced by the United States Geological Service and reviewed on-line from msrmaps.com
Groundwater Atlas	1995	United States Geological Service Groundwater Atlas reviewed at <a href="http://capp.water.usgs.gov/gwa/gwa.html">http://capp.water.usgs.gov/gwa/gwa.html</a>
ASTM User Questionnaire	June 8, 2012	Prepared by Rockrose Development Corp.
ASTM Regulatory Database Report	June 8, 2012	FirstSearch Technology Corporation
Health Department Records	June 10, 2012	New York State Department of Health New York City Department of Health
Environmental Regulatory Records	March 28, 2012	United States Environmental Protection Agency New York State Department of Environmental Conservation New York City Department of Environmental Protection
Land Title Records	2012	New York City Department of Finance Automated City Register Information System (ACRIS) ( <a href="http://a836-acris.nyc.gov/Scripts/DocSearch.dll/BBLResult">http://a836-acris.nyc.gov/Scripts/DocSearch.dll/BBLResult</a> )
Tax Assessor Records	2012	New York City Department of Finance ( <a href="http://www.nyc.gov/html/dof/html/assessmt.html">http://www.nyc.gov/html/dof/html/assessmt.html</a> )
Building Records	2012	New York City Department of Buildings Building Information System ( <a href="http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp">http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp</a> )
Zoning Map	2012	New York City Department of City Planning website ( <a href="http://www.nyc.gov/html/dcp/html/zone/zh_zmactable.shtml">http://www.nyc.gov/html/dcp/html/zone/zh_zmactable.shtml</a> )
Historical Maps	1898 through 2006	Environmental Data Resources, Inc.
City Directories	1922 to 2005	Environmental Data Resources, Inc.
Interviews	June 13, 2012	Mr. Louis Yu, Senior Project Manager at Rockrose Development Corp
Radon	Not applicable	USEPA Map of Radon Zones ( <a href="http://www.epa.gov/iaq/radon/zonemap.html">http://www.epa.gov/iaq/radon/zonemap.html</a> )
Water Quality Report	2011	New York City 2011 Drinking Water Supply and Quality Report ( <a href="http://www.nyc.gov/html/dep/pdf/wsstate11.pdf">http://www.nyc.gov/html/dep/pdf/wsstate11.pdf</a> )

## 9.0 KEY DEFINITIONS

**All Appropriate Inquiry** - As per the ASTM E 1527-05 standard, that inquiry constituting “*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice” as defined in CERCLA, 42 U.S.C §9601(35)(B), that will qualify a party to a *commercial real estate transaction* for one of threshold criteria for satisfying the *LLPs* to CERCLA liability (42 U.S.C §9601(35)(A) & (B), §9607(b)(3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense.

**Asbestos** - As per the USEPA, any materials that contains greater than 1% asbestos

**Data Failure** - As per the ASTM E 1527-05 standard, a failure to achieve the historical research objectives in 8.3.1 through 8.3.2.2 of the ASTM E 1527-05 standard even after reviewing the *standard historical sources* in 8.3.4.1 through 8.3.4.8 of the ASTM E 1527-05 standard that are *reasonably ascertainable* and likely to be useful. *Data failure* is one type of *data gap*.

**Data Gap** - As per the ASTM E 1527-05 standard, a lack of or inability to obtain information required by the ASTM E 1527-05 standard despite *good faith* efforts by the *environmental professional* to gather such information. *Data gaps* may result from incompleteness in any of the activities required by the ASTM E 1527-05 standard, including, but not limited to *site reconnaissance* (for example, an inability to conduct the *site visit*), and *interviews* (for example, an inability to interview the *key site manager*, regulatory officials, etc.).

**Engineering Controls** - As per the ASTM E 1527-05 standard, physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to *hazardous substances* or *petroleum products* in the soil or ground water on the *property*. *Engineering controls* are a type of activity and use limitation (AUL).

**Environmental Compliance Audit** - As per the ASTM E 1527-05 standard, the investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe the ASTM E 1527-05 standard, although an *environmental compliance audit* may include an *environmental site assessment* or, if prior audits are available, may be part of an *environmental site assessment*.

**Environmental Lien** - As per the ASTM E 1527-05 standard, a charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited

to) liens imposed pursuant to CERCLA 42 U.S.C. §§9607(1) & 9607(r) and similar state or local laws.

***Environmental Professional*** - As per the ASTM E 1527-05 standard, a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). The person may be an independent contractor or an employee of the *user*.

***Environmental Site Assessment (ESA)*** - As per the ASTM E 1527-05 standard, the process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the *user*, an *environmental site assessment* may include more inquiry than that constituting *all appropriate inquiry* or, if the *user* is not concerned about qualifying for the *LLPs*, less inquiry than that constituting *all appropriate inquiry*. An *environmental site assessment* is both different from and less rigorous than an *environmental compliance audit*.

***Good Faith*** - As per the ASTM E 1527-05 standard, the absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one's obligations in the conduct or transaction concerned.

***Historical Recognized Environmental Condition*** - As per the ASTM E 1527-05 standard, an environmental condition which in the past would have been considered a *recognized environmental condition*, but which may or may not be considered a *recognized environmental condition* currently. The final decision rests with the *environmental professional* and will be influenced by the current impact of the *historical recognized environmental condition* on the *property*. If a past release of any *hazardous substances* or *petroleum products* has occurred in connection with the *property* and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent), this condition shall be considered an *historical recognized environmental condition* and included in the findings section of the *Phase I Environmental Site Assessment* report. The *environmental professional* shall provide an opinion of the current impact on the *property* of this *historical recognized environmental condition* in the opinion section of the *report*. If this *historical recognized environmental condition* is determined to be a *recognized environmental condition* at the time the *Phase I Environmental Site Assessment* is conducted, the condition shall be identified as such and listed in the conclusions section of the *report*.

***Innocent Landowner Defense*** - As per 42 U.S.C. §§9601(35) & 9607(b)(3), a person may qualify as one of three types of innocent landowners: (i) a person who “did not know and had no reason to know” that contamination existed on the *property* at the time the purchaser acquired the *property*; (ii) a government entity which acquired the *property* by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who “acquired the facility by inheritance or bequest.” To qualify for the first type of innocent

landowner LLP, such person must have made *all appropriate inquiry* on or before the date of purchase. Furthermore, the *all appropriate inquiry* must not have resulted in knowledge of the contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the *innocent landowner defense*.

***Institutional Controls (IC)*** - As per the ASTM E 1527-05 standard, a legal or administrative restriction (for example, “deed restrictions,” restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil or groundwater on the *property*, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.. An institutional control is a type of Activity and Use Limitation (AUL).

***Key Site Manager*** - As per the ASTM E 1527-05 standard, the person identified by the *owner* or *operator* of a *property* as having good knowledge of the uses and physical characteristics of the *property*.

***Landowner Liability Protections (LLPs)*** - As per the ASTM E 1527-05 standard, *landowner liability protections* under CERCLA; these protections include the *bona fide prospective purchaser liability protection*, *contiguous property owner liability protection*, and *innocent landowner defense* from CERCLA liability. See 42 U.S.C. §§9601(35)(A), 9601(40), 9607(b), 9607(q), 9607(r).

***Lead-based Paint*** - The USEPA defines “lead-based paint” as any paint, surface coating that contains lead equal to or exceeding one milligram per square centimeter or 0.5% by weight.

***Major Occupants*** - As per the ASTM E 1527-05 standard, those tenants, subtenants, or other persons or entities each of which uses at least 40 % of the leasable area of the *property* or any anchor tenant when the *property* is a shopping center.

***Material Threat*** - As per the ASTM E 1527-05 standard, a physically observable or *obvious* threat which is reasonably likely to lead to a release that, in the opinion of the *environmental professional*, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a *hazardous substance* and which shows evidence of damage. The damage would represent a *material threat* if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

***Obvious*** - As per the ASTM E 1527-05 standard, that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the *property*.

***Practically Reviewable*** - As per the ASTM E 1527-05 standard, information that is *practically reviewable* means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the *user* can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally *practically reviewable*. Listings in *publicly available* records which do not have adequate address information to be located geographically are not generally considered *practically reviewable*. For large databases with numerous records (such as RCRA hazardous waste generators and registered *underground storage tanks*), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable*.

***Publicly Available*** - As per the ASTM E 1527-05 standard, information that is *publicly available* means that the source of the information allows access to the information by anyone upon request.

***Radon*** – An odorless, colorless radioactive gas that causes lung cancer. Radon occurs from the natural breakdown of radium, uranium, and thorium. Radon gas causes cancer and can increase to harmful levels in enclosed unventilated spaces. Indoor radon gas levels depend primarily on underlying geologic formations and building construction characteristics.

***Reasonably Ascertainable*** - As per the ASTM E 1527-05 standard, information that is (1) *publicly available*, (2) obtainable from its source within reasonable time and cost constraints, and (3) *practically reviewable*

***Recognized Environmental Condition*** – As per the ASTM E 1527-05 standard, the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a *material threat* of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws.

***Underground Storage Tank (UST)*** - As per the ASTM E 1527-05 standard, any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10 % or more beneath the surface of the ground.

***User*** - As per the ASTM E 1527-05 standard, a User is the party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A User may include, without limitation, a potential purchaser of the subject property, a potential tenant of the subject property, an owner of the subject property, a lender, or the manager of the subject property.

***Visually and/or Physically Observed*** - As per the ASTM E 1527-05 standard, during a *site visit*, this term means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term “walking through” is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located on it.

# **APPENDIX B**

## *Soil Boring Geologic Logs*





























# **APPENDIX C**

*Laboratory Data Deliverables for Analytical Data (for  
Soil, Groundwater, and Soil Vapor)*

**Technical Report for**

**Fleming-Lee Shue, Inc.**

**Rockrose Fleet Site, Jackson Avenue, Long Island City, NY**

**10112-002-1**

**Accutest Job Number: JB13706**

**Sampling Dates: 08/08/12 - 08/13/12**

**Report to:**

**Fleming-Lee Shue, Inc.**

**rahul@flemingleeshue.com**

**ATTN: Rahul Bhatia**

**Total number of pages in report: 65**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



**Nancy Cole**  
**Laboratory Director**

**Client Service contact: Tammy McCloskey 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.  
Test results relate only to samples analyzed.



August 28, 2012

Mr. Rahul Bhatia  
Fleming Lee Shue, Inc.  
158 West 29<sup>th</sup> Street  
9<sup>th</sup> Floor  
New York, NY 10001

**Re: Accutest Job #JB13706 and JB13706A**

Dear Mr. Bhatia,

The final report for Accutest job number JB13706 has been edited to reflect corrections to the final report. These edits have been incorporated into the revised report attached.

Specifically, the project description/name has been revised to "Rockrose Fleet Site, Jackson Avenue, Long Island city" per your request. The attached revised report incorporates these revisions.

Please contact me if I can be of further assistance in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Tammy McCloskey".

Accutest Laboratories

Cc: [bill@flemingleeshue.com](mailto:bill@flemingleeshue.com); [kevin@flemingleeshue.com](mailto:kevin@flemingleeshue.com)

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## Sample Summary

Fleming-Lee Shue, Inc.

Job No: JB13706

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
Project No: 10112-002-1

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB13706-1	08/08/12	12:30 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-1
JB13706-2	08/08/12	12:40 RVB	08/14/12	AIR	Indoor Air Comp.	IA-1
JB13706-3	08/08/12	12:55 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-2
JB13706-4	08/08/12	13:10 RVB	08/14/12	AIR	Indoor Air Comp.	IA-2
JB13706-5	08/08/12	11:55 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-4
JB13706-6	08/08/12	12:00 RVB	08/14/12	AIR	Indoor Air Comp.	IA-4
JB13706-7	08/09/12	13:25 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-5
JB13706-8	08/09/12	14:10 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-6
JB13706-9	08/09/12	14:25 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-7
JB13706-10	08/13/12	12:15 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-9
JB13706-11	08/13/12	12:20 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-10
JB13706-12	08/13/12	12:30 RVB	08/14/12	AIR	Indoor Air Comp.	IA-5
JB13706-13	08/13/12	12:40 RVB	08/14/12	AIR	Soil Vapor Comp.	SV-3



## Sample Summary

(continued)

Fleming-Lee Shue, Inc.

**Job No:** JB13706

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

Project No: 10112-002-1

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB13706-14	08/13/12	12:55 RVB	08/14/12	AIR	Indoor Air Comp.	IA-3

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Fleming-Lee Shue, Inc.

**Job No** JB13706

**Site:** Rockrose Fleet Site, Long Island City, NY

**Report Date** 8/28/2012 5:02:57 PM

On 08/14/2012, 14 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories . Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB13706 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 TO-15

**Matrix:** AIR

**Batch ID:** V3W1160

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB13706-11DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Methyl ethyl ketone are outside control limits for sample JB13706-11DUP. High RPD due to low concentration of hit

**Matrix:** AIR

**Batch ID:** VW1534

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB13705-1DUP were used as the QC samples indicated.
- Blank Spike Recovery(s) for Ethanol are outside control limits.

**Matrix:** AIR

**Batch ID:** VW1535

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB13847-1DUP were used as the QC samples indicated.

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

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**JB13706-1 SV-1**

Acetone	10.0	0.80	0.15	ppbv	TO-15
Benzene	5.2	0.80	0.18	ppbv	TO-15
Carbon disulfide	0.80	0.80	0.13	ppbv	TO-15
Chloromethane	0.47 J	0.80	0.15	ppbv	TO-15
Cyclohexane	0.61 J	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane	0.42 J	0.80	0.15	ppbv	TO-15
cis-1,2-Dichloroethylene	0.52 J	0.80	0.15	ppbv	TO-15
Ethanol	12.2	2.0	0.38	ppbv	TO-15
Ethylbenzene	5.4	0.80	0.12	ppbv	TO-15
Ethyl Acetate	1.6	0.80	0.24	ppbv	TO-15
4-Ethyltoluene	1.7	0.80	0.096	ppbv	TO-15
Heptane	4.3	0.80	0.13	ppbv	TO-15
Hexane	7.1	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	1.0	0.80	0.23	ppbv	TO-15
Methylene chloride	0.86	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone	4.4	0.80	0.19	ppbv	TO-15
Propylene	1.6 J	2.0	0.28	ppbv	TO-15
1,2,4-Trimethylbenzene	4.0	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene	1.2	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane	0.97	0.80	0.11	ppbv	TO-15
Tetrachloroethylene	4.1	0.16	0.11	ppbv	TO-15
Toluene	43.6	0.80	0.16	ppbv	TO-15
Trichloroethylene	0.20	0.16	0.13	ppbv	TO-15
m,p-Xylene	20.4	0.80	0.12	ppbv	TO-15
o-Xylene	5.1	0.80	0.12	ppbv	TO-15
Xylenes (total)	25.4	0.80	0.12	ppbv	TO-15
Acetone	23.8	1.9	0.36	ug/m3	TO-15
Benzene	17	2.6	0.58	ug/m3	TO-15
Carbon disulfide	2.5	2.5	0.40	ug/m3	TO-15
Chloromethane	0.97 J	1.7	0.31	ug/m3	TO-15
Cyclohexane	2.1 J	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane	2.1 J	4.0	0.74	ug/m3	TO-15
cis-1,2-Dichloroethylene	2.1 J	3.2	0.59	ug/m3	TO-15
Ethanol	23.0	3.8	0.72	ug/m3	TO-15
Ethylbenzene	23	3.5	0.52	ug/m3	TO-15
Ethyl Acetate	5.8	2.9	0.86	ug/m3	TO-15
4-Ethyltoluene	8.4	3.9	0.47	ug/m3	TO-15
Heptane	18	3.3	0.53	ug/m3	TO-15
Hexane	25	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol	2.5	2.0	0.57	ug/m3	TO-15
Methylene chloride	3.0	2.8	0.38	ug/m3	TO-15
Methyl ethyl ketone	13	2.4	0.56	ug/m3	TO-15
Propylene	2.7 J	3.4	0.48	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		20	3.9	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene		5.9	3.9	0.54	ug/m3	TO-15
1,3,5-Trimethylbenzene		4.5	3.7	0.51	ug/m3	TO-15
2,2,4-Trimethylpentane		28	1.1	0.75	ug/m3	TO-15
Tetrachloroethylene		164	3.0	0.60	ug/m3	TO-15
Toluene		1.1	0.86	0.70	ug/m3	TO-15
Trichloroethylene		88.6	3.5	0.52	ug/m3	TO-15
m,p-Xylene		22	3.5	0.52	ug/m3	TO-15
o-Xylene		110	3.5	0.52	ug/m3	TO-15
Xylenes (total)						

**JB13706-2      IA-1**

Acetone	8.8	0.20	0.036	ppbv	TO-15
Benzene	0.35	0.20	0.046	ppbv	TO-15
Carbon disulfide	0.46	0.20	0.032	ppbv	TO-15
Chloroform	0.18 J	0.20	0.028	ppbv	TO-15
Chloromethane	0.55	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane	0.52	0.20	0.038	ppbv	TO-15
cis-1,2-Dichloroethylene	0.44	0.20	0.038	ppbv	TO-15
Ethanol	3.1	0.50	0.095	ppbv	TO-15
Ethylbenzene	0.22	0.20	0.031	ppbv	TO-15
Ethyl Acetate	1.1	0.20	0.061	ppbv	TO-15
4-Ethyltoluene	0.21	0.20	0.024	ppbv	TO-15
Heptane	0.21	0.20	0.033	ppbv	TO-15
Hexane	0.31	0.20	0.044	ppbv	TO-15
Isopropyl Alcohol	0.70	0.20	0.059	ppbv	TO-15
Methylene chloride	1.2	0.20	0.027	ppbv	TO-15
Methyl ethyl ketone	1.0	0.20	0.048	ppbv	TO-15
Propylene	1.1	0.50	0.070	ppbv	TO-15
1,2,4-Trimethylbenzene	0.50	0.20	0.024	ppbv	TO-15
1,3,5-Trimethylbenzene	0.26	0.20	0.028	ppbv	TO-15
2,2,4-Trimethylpentane	0.35	0.20	0.028	ppbv	TO-15
Tetrachloroethylene	0.46	0.040	0.028	ppbv	TO-15
Toluene	1.8	0.20	0.040	ppbv	TO-15
Trichloroethylene	0.069	0.040	0.033	ppbv	TO-15
Trichlorofluoromethane	0.26	0.20	0.042	ppbv	TO-15
m,p-Xylene	0.73	0.20	0.031	ppbv	TO-15
o-Xylene	0.27	0.20	0.031	ppbv	TO-15
Xylenes (total)	1.0	0.20	0.031	ppbv	TO-15
Acetone	21	0.48	0.086	ug/m3	TO-15
Benzene	1.1	0.64	0.15	ug/m3	TO-15
Carbon disulfide	1.4	0.62	0.10	ug/m3	TO-15
Chloroform	0.88 J	0.98	0.14	ug/m3	TO-15
Chloromethane	1.1	0.41	0.076	ug/m3	TO-15
Dichlorodifluoromethane	2.6	0.99	0.19	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethylene		1.7	0.79	0.15	ug/m3	TO-15
Ethanol		5.8	0.94	0.18	ug/m3	TO-15
Ethylbenzene		0.96	0.87	0.13	ug/m3	TO-15
Ethyl Acetate		4.0	0.72	0.22	ug/m3	TO-15
4-Ethyltoluene		1.0	0.98	0.12	ug/m3	TO-15
Heptane		0.86	0.82	0.14	ug/m3	TO-15
Hexane		1.1	0.70	0.16	ug/m3	TO-15
Isopropyl Alcohol		1.7	0.49	0.15	ug/m3	TO-15
Methylene chloride		4.2	0.69	0.094	ug/m3	TO-15
Methyl ethyl ketone		2.9	0.59	0.14	ug/m3	TO-15
Propylene		1.9	0.86	0.12	ug/m3	TO-15
1,2,4-Trimethylbenzene		2.5	0.98	0.12	ug/m3	TO-15
1,3,5-Trimethylbenzene		1.3	0.98	0.14	ug/m3	TO-15
2,2,4-Trimethylpentane		1.6	0.93	0.13	ug/m3	TO-15
Tetrachloroethylene		3.1	0.27	0.19	ug/m3	TO-15
Toluene		6.8	0.75	0.15	ug/m3	TO-15
Trichloroethylene		0.37	0.21	0.18	ug/m3	TO-15
Trichlorofluoromethane		1.5	1.1	0.24	ug/m3	TO-15
m,p-Xylene		3.2	0.87	0.13	ug/m3	TO-15
o-Xylene		1.2	0.87	0.13	ug/m3	TO-15
Xylenes (total)		4.3	0.87	0.13	ug/m3	TO-15

### JB13706-3 SV-2

Acetone	15.0	0.80	0.15	ppbv	TO-15
Benzene	25.4	0.80	0.18	ppbv	TO-15
Chloroform	25.3	0.80	0.11	ppbv	TO-15
Cyclohexane	3.5	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane	0.70 J	0.80	0.15	ppbv	TO-15
Ethanol	13.4	2.0	0.38	ppbv	TO-15
Ethylbenzene	58.0	0.80	0.12	ppbv	TO-15
4-Ethyltoluene	26.1	0.80	0.096	ppbv	TO-15
Heptane	21.9	0.80	0.13	ppbv	TO-15
Hexane	28.3	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	0.87	0.80	0.23	ppbv	TO-15
Methylene chloride	0.86	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone	1.7	0.80	0.19	ppbv	TO-15
1,1,1-Trichloroethane	252	3.2	0.35	ppbv	TO-15
1,2,4-Trimethylbenzene	78.4	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene	20.6	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane	3.2	0.80	0.11	ppbv	TO-15
Tetrachloroethylene	68.8	0.16	0.11	ppbv	TO-15
Tetrahydrofuran	1.9	0.80	0.19	ppbv	TO-15
Toluene	414	3.2	0.64	ppbv	TO-15
Trichloroethylene	0.87	0.16	0.13	ppbv	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		0.52 J	0.80	0.17	ppbv	TO-15
		276	0.80	0.12	ppbv	TO-15
		69.4	0.80	0.12	ppbv	TO-15
		345	0.80	0.12	ppbv	TO-15
		35.6	1.9	0.36	ug/m3	TO-15
		81.1	2.6	0.58	ug/m3	TO-15
		124	3.9	0.54	ug/m3	TO-15
		12	2.8	0.45	ug/m3	TO-15
		3.5 J	4.0	0.74	ug/m3	TO-15
		25.2	3.8	0.72	ug/m3	TO-15
		252	3.5	0.52	ug/m3	TO-15
		128	3.9	0.47	ug/m3	TO-15
		89.7	3.3	0.53	ug/m3	TO-15
		99.7	2.8	0.63	ug/m3	TO-15
		2.1	2.0	0.57	ug/m3	TO-15
		3.0	2.8	0.38	ug/m3	TO-15
		5.0	2.4	0.56	ug/m3	TO-15
		1370	17	1.9	ug/m3	TO-15
		385	3.9	0.47	ug/m3	TO-15
		101	3.9	0.54	ug/m3	TO-15
		15	3.7	0.51	ug/m3	TO-15
		467	1.1	0.75	ug/m3	TO-15
		5.6	2.4	0.56	ug/m3	TO-15
		1560	12	2.4	ug/m3	TO-15
		4.7	0.86	0.70	ug/m3	TO-15
		2.9 J	4.5	0.96	ug/m3	TO-15
		1200	3.5	0.52	ug/m3	TO-15
		301	3.5	0.52	ug/m3	TO-15
		1500	3.5	0.52	ug/m3	TO-15

### JB13706-4 IA-2

Acetone	8.6	0.20	0.036	ppbv	TO-15
Benzene	0.21	0.20	0.046	ppbv	TO-15
Carbon disulfide	0.28	0.20	0.032	ppbv	TO-15
Chloroform	0.18 J	0.20	0.028	ppbv	TO-15
Chloromethane	0.73	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane	0.55	0.20	0.038	ppbv	TO-15
Ethanol	1.1	0.50	0.095	ppbv	TO-15
Ethylbenzene	0.20	0.20	0.031	ppbv	TO-15
Ethyl Acetate	0.99	0.20	0.061	ppbv	TO-15
Hexane	0.23	0.20	0.044	ppbv	TO-15
2-Hexanone	0.18 J	0.20	0.043	ppbv	TO-15
Isopropyl Alcohol	0.30	0.20	0.059	ppbv	TO-15
Methylene chloride	0.63	0.20	0.027	ppbv	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method	
		Methyl ethyl ketone	1.1	0.20	0.048	ppbv	TO-15
		Propylene	1.6	0.50	0.070	ppbv	TO-15
		Styrene	0.12 J	0.20	0.027	ppbv	TO-15
		1,1,1-Trichloroethane	0.39	0.20	0.022	ppbv	TO-15
		1,2,4-Trimethylbenzene	0.29	0.20	0.024	ppbv	TO-15
		1,3,5-Trimethylbenzene	0.11 J	0.20	0.028	ppbv	TO-15
		2,2,4-Trimethylpentane	0.18 J	0.20	0.028	ppbv	TO-15
		Tetrachloroethylene	0.61	0.040	0.028	ppbv	TO-15
		Toluene	1.0	0.20	0.040	ppbv	TO-15
		Trichloroethylene	0.15	0.040	0.033	ppbv	TO-15
		Trichlorofluoromethane	0.32	0.20	0.042	ppbv	TO-15
		m,p-Xylene	0.59	0.20	0.031	ppbv	TO-15
		o-Xylene	0.23	0.20	0.031	ppbv	TO-15
		Xylenes (total)	0.83	0.20	0.031	ppbv	TO-15
		Acetone	20	0.48	0.086	ug/m3	TO-15
		Benzene	0.67	0.64	0.15	ug/m3	TO-15
		Carbon disulfide	0.87	0.62	0.10	ug/m3	TO-15
		Chloroform	0.88 J	0.98	0.14	ug/m3	TO-15
		Chloromethane	1.5	0.41	0.076	ug/m3	TO-15
		Dichlorodifluoromethane	2.7	0.99	0.19	ug/m3	TO-15
		Ethanol	2.1	0.94	0.18	ug/m3	TO-15
		Ethylbenzene	0.87	0.87	0.13	ug/m3	TO-15
		Ethyl Acetate	3.6	0.72	0.22	ug/m3	TO-15
		Hexane	0.81	0.70	0.16	ug/m3	TO-15
		2-Hexanone	0.74 J	0.82	0.18	ug/m3	TO-15
		Isopropyl Alcohol	0.74	0.49	0.15	ug/m3	TO-15
		Methylene chloride	2.2	0.69	0.094	ug/m3	TO-15
		Methyl ethyl ketone	3.2	0.59	0.14	ug/m3	TO-15
		Propylene	2.7	0.86	0.12	ug/m3	TO-15
		Styrene	0.51 J	0.85	0.11	ug/m3	TO-15
		1,1,1-Trichloroethane	2.1	1.1	0.12	ug/m3	TO-15
		1,2,4-Trimethylbenzene	1.4	0.98	0.12	ug/m3	TO-15
		1,3,5-Trimethylbenzene	0.54 J	0.98	0.14	ug/m3	TO-15
		2,2,4-Trimethylpentane	0.84 J	0.93	0.13	ug/m3	TO-15
		Tetrachloroethylene	4.1	0.27	0.19	ug/m3	TO-15
		Toluene	3.8	0.75	0.15	ug/m3	TO-15
		Trichloroethylene	0.81	0.21	0.18	ug/m3	TO-15
		Trichlorofluoromethane	1.8	1.1	0.24	ug/m3	TO-15
		m,p-Xylene	2.6	0.87	0.13	ug/m3	TO-15
		o-Xylene	1.0	0.87	0.13	ug/m3	TO-15
		Xylenes (total)	3.6	0.87	0.13	ug/m3	TO-15

**JB13706-5      SV-4**

Acetone	34.0	0.80	0.15	ppbv	TO-15
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## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzene		15.1	0.80	0.18	ppbv	TO-15
Chloromethane		0.52 J	0.80	0.15	ppbv	TO-15
Cyclohexane		2.8	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane		0.57 J	0.80	0.15	ppbv	TO-15
Ethanol		14.6	2.0	0.38	ppbv	TO-15
Ethylbenzene		36.9	0.80	0.12	ppbv	TO-15
4-Ethyltoluene		16.8	0.80	0.096	ppbv	TO-15
Heptane		13.3	0.80	0.13	ppbv	TO-15
Hexane		15.7	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		2.1	0.80	0.23	ppbv	TO-15
Methylene chloride		0.90	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone		3.4	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone		1.0	0.80	0.14	ppbv	TO-15
Methylmethacrylate		1.8	0.80	0.17	ppbv	TO-15
Propylene		9.3	2.0	0.28	ppbv	TO-15
Styrene		0.40 J	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		54.2	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene		14.3	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane		3.5	0.80	0.11	ppbv	TO-15
Tetrachloroethylene		23.2	0.16	0.11	ppbv	TO-15
Tetrahydrofuran		1.4	0.80	0.19	ppbv	TO-15
Toluene		170	1.6	0.32	ppbv	TO-15
m,p-Xylene		178	0.80	0.12	ppbv	TO-15
o-Xylene		46.1	0.80	0.12	ppbv	TO-15
Xylenes (total)		224	0.80	0.12	ppbv	TO-15
Acetone		80.8	1.9	0.36	ug/m3	TO-15
Benzene		48.2	2.6	0.58	ug/m3	TO-15
Chloromethane		1.1 J	1.7	0.31	ug/m3	TO-15
Cyclohexane		9.6	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane		2.8 J	4.0	0.74	ug/m3	TO-15
Ethanol		27.5	3.8	0.72	ug/m3	TO-15
Ethylbenzene		160	3.5	0.52	ug/m3	TO-15
4-Ethyltoluene		82.6	3.9	0.47	ug/m3	TO-15
Heptane		54.5	3.3	0.53	ug/m3	TO-15
Hexane		55.3	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		5.2	2.0	0.57	ug/m3	TO-15
Methylene chloride		3.1	2.8	0.38	ug/m3	TO-15
Methyl ethyl ketone		10	2.4	0.56	ug/m3	TO-15
Methyl Isobutyl Ketone		4.1	3.3	0.57	ug/m3	TO-15
Methylmethacrylate		7.4	3.3	0.70	ug/m3	TO-15
Propylene		16	3.4	0.48	ug/m3	TO-15
Styrene		1.7 J	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene		266	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene		70.3	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane		16	3.7	0.51	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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		157	1.1	0.75	ug/m3	TO-15
		4.1	2.4	0.56	ug/m3	TO-15
		641	6.0	1.2	ug/m3	TO-15
		773	3.5	0.52	ug/m3	TO-15
		200	3.5	0.52	ug/m3	TO-15
		973	3.5	0.52	ug/m3	TO-15

**JB13706-6      IA-4**

Acetone	29.8	0.20	0.036	ppbv	TO-15
Benzene	0.45	0.20	0.046	ppbv	TO-15
Carbon disulfide	0.36	0.20	0.032	ppbv	TO-15
Chloroform	0.19 J	0.20	0.028	ppbv	TO-15
Chloromethane	1.5	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane	0.52	0.20	0.038	ppbv	TO-15
Ethanol	6.0	0.50	0.095	ppbv	TO-15
Ethylbenzene	0.72	0.20	0.031	ppbv	TO-15
Ethyl Acetate	1.4	0.20	0.061	ppbv	TO-15
4-Ethyltoluene	0.29	0.20	0.024	ppbv	TO-15
Heptane	0.56	0.20	0.033	ppbv	TO-15
Hexane	0.55	0.20	0.044	ppbv	TO-15
2-Hexanone	1.5	0.20	0.043	ppbv	TO-15
Isopropyl Alcohol	1.3	0.20	0.059	ppbv	TO-15
Methylene chloride	0.65	0.20	0.027	ppbv	TO-15
Methyl ethyl ketone	5.7	0.20	0.048	ppbv	TO-15
Methyl Isobutyl Ketone	1.2	0.20	0.036	ppbv	TO-15
Propylene	2.1	0.50	0.070	ppbv	TO-15
Styrene	0.14 J	0.20	0.027	ppbv	TO-15
1,2,4-Trimethylbenzene	1.7	0.20	0.024	ppbv	TO-15
1,3,5-Trimethylbenzene	0.49	0.20	0.028	ppbv	TO-15
2,2,4-Trimethylpentane	0.43	0.20	0.028	ppbv	TO-15
Tetrachloroethylene	1.0	0.040	0.028	ppbv	TO-15
Toluene	3.8	0.20	0.040	ppbv	TO-15
Trichloroethylene	0.13	0.040	0.033	ppbv	TO-15
Trichlorofluoromethane	0.33	0.20	0.042	ppbv	TO-15
m,p-Xylene	2.7	0.20	0.031	ppbv	TO-15
o-Xylene	0.86	0.20	0.031	ppbv	TO-15
Xylenes (total)	3.6	0.20	0.031	ppbv	TO-15
Acetone	70.8	0.48	0.086	ug/m3	TO-15
Benzene	1.4	0.64	0.15	ug/m3	TO-15
Carbon disulfide	1.1	0.62	0.10	ug/m3	TO-15
Chloroform	0.93 J	0.98	0.14	ug/m3	TO-15
Chloromethane	3.1	0.41	0.076	ug/m3	TO-15
Dichlorodifluoromethane	2.6	0.99	0.19	ug/m3	TO-15
Ethanol	11	0.94	0.18	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Ethylbenzene		3.1	0.87	0.13	ug/m3	TO-15
Ethyl Acetate		5.0	0.72	0.22	ug/m3	TO-15
4-Ethyltoluene		1.4	0.98	0.12	ug/m3	TO-15
Heptane		2.3	0.82	0.14	ug/m3	TO-15
Hexane		1.9	0.70	0.16	ug/m3	TO-15
2-Hexanone		6.1	0.82	0.18	ug/m3	TO-15
Isopropyl Alcohol		3.2	0.49	0.15	ug/m3	TO-15
Methylene chloride		2.3	0.69	0.094	ug/m3	TO-15
Methyl ethyl ketone		17	0.59	0.14	ug/m3	TO-15
Methyl Isobutyl Ketone		4.9	0.82	0.15	ug/m3	TO-15
Propylene		3.6	0.86	0.12	ug/m3	TO-15
Styrene		0.60 J	0.85	0.11	ug/m3	TO-15
1,2,4-Trimethylbenzene		8.4	0.98	0.12	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.4	0.98	0.14	ug/m3	TO-15
2,2,4-Trimethylpentane		2.0	0.93	0.13	ug/m3	TO-15
Tetrachloroethylene		6.8	0.27	0.19	ug/m3	TO-15
Toluene		14	0.75	0.15	ug/m3	TO-15
Trichloroethylene		0.70	0.21	0.18	ug/m3	TO-15
Trichlorofluoromethane		1.9	1.1	0.24	ug/m3	TO-15
m,p-Xylene		12	0.87	0.13	ug/m3	TO-15
o-Xylene		3.7	0.87	0.13	ug/m3	TO-15
Xylenes (total)		16	0.87	0.13	ug/m3	TO-15

### JB13706-7 SV-5

Acetone		518	9.2	1.7	ppbv	TO-15
Benzene		108	0.80	0.18	ppbv	TO-15
Carbon disulfide		1.5	0.80	0.13	ppbv	TO-15
Chloroform		6.1	0.80	0.11	ppbv	TO-15
Cyclohexane		24.0	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane		0.66 J	0.80	0.15	ppbv	TO-15
Ethanol		104	2.0	0.38	ppbv	TO-15
Ethylbenzene		117	0.80	0.12	ppbv	TO-15
Ethyl Acetate		3.2	0.80	0.24	ppbv	TO-15
4-Ethyltoluene		33.7	0.80	0.096	ppbv	TO-15
Heptane		109	0.80	0.13	ppbv	TO-15
Hexane		147	9.2	2.0	ppbv	TO-15
Isopropyl Alcohol		1.5	0.80	0.23	ppbv	TO-15
Methylene chloride		2.6	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone		13.4	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone		2.2	0.80	0.14	ppbv	TO-15
Methylmethacrylate		16.0	0.80	0.17	ppbv	TO-15
Propylene		51.1	2.0	0.28	ppbv	TO-15
Styrene		0.73 J	0.80	0.11	ppbv	TO-15
1,1,1-Trichloroethane		1.8	0.80	0.088	ppbv	TO-15



## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**JB13706-8 SV-6**

Acetone	10.9	0.80	0.15	ppbv	TO-15
Benzene	0.62 J	0.80	0.18	ppbv	TO-15
Dichlorodifluoromethane	0.61 J	0.80	0.15	ppbv	TO-15
Ethanol	7.9	2.0	0.38	ppbv	TO-15
Ethylbenzene	0.53 J	0.80	0.12	ppbv	TO-15
Heptane	0.59 J	0.80	0.13	ppbv	TO-15
Hexane	0.90	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	1.1	0.80	0.23	ppbv	TO-15
Methyl ethyl ketone	1.1	0.80	0.19	ppbv	TO-15
1,2,4-Trimethylbenzene	0.61 J	0.80	0.096	ppbv	TO-15
2,2,4-Trimethylpentane	0.55 J	0.80	0.11	ppbv	TO-15
Tetrachloroethylene	0.30	0.16	0.11	ppbv	TO-15
Toluene	3.5	0.80	0.16	ppbv	TO-15
m,p-Xylene	1.8	0.80	0.12	ppbv	TO-15
o-Xylene	0.54 J	0.80	0.12	ppbv	TO-15
Xylenes (total)	2.3	0.80	0.12	ppbv	TO-15
Acetone	25.9	1.9	0.36	ug/m3	TO-15
Benzene	2.0 J	2.6	0.58	ug/m3	TO-15
Dichlorodifluoromethane	3.0 J	4.0	0.74	ug/m3	TO-15
Ethanol	15	3.8	0.72	ug/m3	TO-15
Ethylbenzene	2.3 J	3.5	0.52	ug/m3	TO-15
Heptane	2.4 J	3.3	0.53	ug/m3	TO-15
Hexane	3.2	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol	2.7	2.0	0.57	ug/m3	TO-15
Methyl ethyl ketone	3.2	2.4	0.56	ug/m3	TO-15
1,2,4-Trimethylbenzene	3.0 J	3.9	0.47	ug/m3	TO-15
2,2,4-Trimethylpentane	2.6 J	3.7	0.51	ug/m3	TO-15
Tetrachloroethylene	2.0	1.1	0.75	ug/m3	TO-15
Toluene	13	3.0	0.60	ug/m3	TO-15
m,p-Xylene	7.8	3.5	0.52	ug/m3	TO-15
o-Xylene	2.3 J	3.5	0.52	ug/m3	TO-15
Xylenes (total)	10	3.5	0.52	ug/m3	TO-15

**JB13706-9 SV-7**

Acetone	21.7	0.80	0.15	ppbv	TO-15
Benzene	10.9	0.80	0.18	ppbv	TO-15
Dichlorodifluoromethane	0.78 J	0.80	0.15	ppbv	TO-15
cis-1,2-Dichloroethylene	0.74 J	0.80	0.15	ppbv	TO-15
Ethanol	12.9	2.0	0.38	ppbv	TO-15
Ethylbenzene	13.8	0.80	0.12	ppbv	TO-15
4-Ethyltoluene	3.2	0.80	0.096	ppbv	TO-15
Heptane	9.0	0.80	0.13	ppbv	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Hexane		12.0	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		2.9	0.80	0.23	ppbv	TO-15
Methylene chloride		1.1	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone		2.3	0.80	0.19	ppbv	TO-15
Propylene		3.0	2.0	0.28	ppbv	TO-15
Styrene		0.43 J	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		9.4	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene		2.8	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane		1.8	0.80	0.11	ppbv	TO-15
Tetrachloroethylene		9.4	0.16	0.11	ppbv	TO-15
Tetrahydrofuran		0.88	0.80	0.19	ppbv	TO-15
Toluene		94.8	0.80	0.16	ppbv	TO-15
Trichloroethylene		0.17	0.16	0.13	ppbv	TO-15
Trichlorofluoromethane		2.0	0.80	0.17	ppbv	TO-15
m,p-Xylene		55.1	0.80	0.12	ppbv	TO-15
o-Xylene		13.9	0.80	0.12	ppbv	TO-15
Xylenes (total)		69.0	0.80	0.12	ppbv	TO-15
Acetone		51.5	1.9	0.36	ug/m3	TO-15
Benzene		34.8	2.6	0.58	ug/m3	TO-15
Dichlorodifluoromethane		3.9 J	4.0	0.74	ug/m3	TO-15
cis-1,2-Dichloroethylene		2.9 J	3.2	0.59	ug/m3	TO-15
Ethanol		24.3	3.8	0.72	ug/m3	TO-15
Ethylbenzene		59.9	3.5	0.52	ug/m3	TO-15
4-Ethyltoluene		16	3.9	0.47	ug/m3	TO-15
Heptane		37	3.3	0.53	ug/m3	TO-15
Hexane		42.3	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		7.1	2.0	0.57	ug/m3	TO-15
Methylene chloride		3.8	2.8	0.38	ug/m3	TO-15
Methyl ethyl ketone		6.8	2.4	0.56	ug/m3	TO-15
Propylene		5.2	3.4	0.48	ug/m3	TO-15
Styrene		1.8 J	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene		46	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene		14	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane		8.4	3.7	0.51	ug/m3	TO-15
Tetrachloroethylene		64	1.1	0.75	ug/m3	TO-15
Tetrahydrofuran		2.6	2.4	0.56	ug/m3	TO-15
Toluene		357	3.0	0.60	ug/m3	TO-15
Trichloroethylene		0.91	0.86	0.70	ug/m3	TO-15
Trichlorofluoromethane		11	4.5	0.96	ug/m3	TO-15
m,p-Xylene		239	3.5	0.52	ug/m3	TO-15
o-Xylene		60.4	3.5	0.52	ug/m3	TO-15
Xylenes (total)		300	3.5	0.52	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>JB13706-10</b>	<b>SV-9</b>					
Acetone		109	0.80	0.15	ppbv	TO-15
Benzene		4.5	0.80	0.18	ppbv	TO-15
Chloroform		1.7	0.80	0.11	ppbv	TO-15
Cyclohexane		1.9	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane		0.45 J	0.80	0.15	ppbv	TO-15
Ethanol		11.4	2.0	0.38	ppbv	TO-15
Ethylbenzene		27.2	0.80	0.12	ppbv	TO-15
4-Ethyltoluene		9.8	0.80	0.096	ppbv	TO-15
Heptane		8.5	0.80	0.13	ppbv	TO-15
Hexane		4.8	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol		21.2	0.80	0.23	ppbv	TO-15
Methylene chloride		3.1	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone		14.7	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone		9.8	0.80	0.14	ppbv	TO-15
Propylene		1.4 J	2.0	0.28	ppbv	TO-15
Styrene		4.3	0.80	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		27.5	0.80	0.096	ppbv	TO-15
1,3,5-Trimethylbenzene		7.4	0.80	0.11	ppbv	TO-15
2,2,4-Trimethylpentane		0.76 J	0.80	0.11	ppbv	TO-15
Tertiary Butyl Alcohol		1.4	0.80	0.13	ppbv	TO-15
Tetrachloroethylene		90.6	0.16	0.11	ppbv	TO-15
Toluene		346	3.2	0.64	ppbv	TO-15
Trichloroethylene		160	0.64	0.52	ppbv	TO-15
m,p-Xylene		120	0.80	0.12	ppbv	TO-15
o-Xylene		34.0	0.80	0.12	ppbv	TO-15
Xylenes (total)		154	0.80	0.12	ppbv	TO-15
Acetone		259	1.9	0.36	ug/m3	TO-15
Benzene		14	2.6	0.58	ug/m3	TO-15
Chloroform		8.3	3.9	0.54	ug/m3	TO-15
Cyclohexane		6.5	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	0.74	ug/m3	TO-15
Ethanol		21.5	3.8	0.72	ug/m3	TO-15
Ethylbenzene		118	3.5	0.52	ug/m3	TO-15
4-Ethyltoluene		48	3.9	0.47	ug/m3	TO-15
Heptane		35	3.3	0.53	ug/m3	TO-15
Hexane		17	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		52.1	2.0	0.57	ug/m3	TO-15
Methylene chloride		11	2.8	0.38	ug/m3	TO-15
Methyl ethyl ketone		43.4	2.4	0.56	ug/m3	TO-15
Methyl Isobutyl Ketone		40	3.3	0.57	ug/m3	TO-15
Propylene		2.4 J	3.4	0.48	ug/m3	TO-15
Styrene		18	3.4	0.47	ug/m3	TO-15
1,2,4-Trimethylbenzene		135	3.9	0.47	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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1,3,5-Trimethylbenzene		36	3.9	0.54	ug/m3	TO-15
2,2,4-Trimethylpentane		3.5 J	3.7	0.51	ug/m3	TO-15
Tertiary Butyl Alcohol		4.2	2.4	0.39	ug/m3	TO-15
Tetrachloroethylene		614	1.1	0.75	ug/m3	TO-15
Toluene		1300	12	2.4	ug/m3	TO-15
Trichloroethylene		860	3.4	2.8	ug/m3	TO-15
m,p-Xylene		521	3.5	0.52	ug/m3	TO-15
o-Xylene		148	3.5	0.52	ug/m3	TO-15
Xylenes (total)		669	3.5	0.52	ug/m3	TO-15

**JB13706-11 SV-10**

Acetone		72.8	1.6	0.29	ppbv	TO-15
Benzene		29.2	1.6	0.37	ppbv	TO-15
Carbon disulfide		0.98 J	1.6	0.26	ppbv	TO-15
Cyclohexane		5.8	1.6	0.27	ppbv	TO-15
Ethanol		22.3	4.0	0.76	ppbv	TO-15
Ethylbenzene		43.6	1.6	0.24	ppbv	TO-15
4-Ethyltoluene		13.2	1.6	0.19	ppbv	TO-15
Heptane		35.5	1.6	0.27	ppbv	TO-15
Hexane		51.6	1.6	0.35	ppbv	TO-15
Isopropyl Alcohol		2.1	1.6	0.47	ppbv	TO-15
Methyl ethyl ketone		2.6	1.6	0.38	ppbv	TO-15
1,1,1-Trichloroethane		2.7	1.6	0.18	ppbv	TO-15
1,2,4-Trimethylbenzene		47.7	1.6	0.19	ppbv	TO-15
1,3,5-Trimethylbenzene		13.0	1.6	0.22	ppbv	TO-15
2,2,4-Trimethylpentane		8.0	1.6	0.23	ppbv	TO-15
Tertiary Butyl Alcohol		3.0	1.6	0.26	ppbv	TO-15
Tetrachloroethylene		25.4	0.32	0.23	ppbv	TO-15
Tetrahydrofuran		2.8	1.6	0.37	ppbv	TO-15
Toluene		293	1.6	0.32	ppbv	TO-15
m,p-Xylene		168	1.6	0.25	ppbv	TO-15
o-Xylene		53.7	1.6	0.25	ppbv	TO-15
Xylenes (total)		222	1.6	0.25	ppbv	TO-15
Acetone		173	3.8	0.69	ug/m3	TO-15
Benzene		93.3	5.1	1.2	ug/m3	TO-15
Carbon disulfide		3.1 J	5.0	0.81	ug/m3	TO-15
Cyclohexane		20	5.5	0.93	ug/m3	TO-15
Ethanol		42.0	7.5	1.4	ug/m3	TO-15
Ethylbenzene		189	6.9	1.0	ug/m3	TO-15
4-Ethyltoluene		64.9	7.9	0.93	ug/m3	TO-15
Heptane		145	6.6	1.1	ug/m3	TO-15
Hexane		182	5.6	1.2	ug/m3	TO-15
Isopropyl Alcohol		5.2	3.9	1.2	ug/m3	TO-15
Methyl ethyl ketone		7.7	4.7	1.1	ug/m3	TO-15



## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		0.52 J	0.69	0.12	ug/m3	TO-15
		2.2	0.99	0.19	ug/m3	TO-15
		31.7	0.94	0.18	ug/m3	TO-15
		1.5	0.87	0.13	ug/m3	TO-15
		1.8	0.72	0.22	ug/m3	TO-15
		0.79 J	0.98	0.12	ug/m3	TO-15
		6.6	0.82	0.14	ug/m3	TO-15
		2.1	0.70	0.16	ug/m3	TO-15
		9.1	0.49	0.15	ug/m3	TO-15
		3.5	0.69	0.094	ug/m3	TO-15
		4.4	0.59	0.14	ug/m3	TO-15
		1.2	0.82	0.15	ug/m3	TO-15
		1.0	0.85	0.11	ug/m3	TO-15
		3.4	0.98	0.12	ug/m3	TO-15
		0.98	0.98	0.14	ug/m3	TO-15
		1.6	0.93	0.13	ug/m3	TO-15
		0.60	0.27	0.19	ug/m3	TO-15
		12	0.75	0.15	ug/m3	TO-15
		0.33	0.21	0.18	ug/m3	TO-15
		1.3	1.1	0.24	ug/m3	TO-15
		5.2	0.87	0.13	ug/m3	TO-15
		1.6	0.87	0.13	ug/m3	TO-15
		6.5	0.87	0.13	ug/m3	TO-15

### JB13706-13 SV-3

		67.0	0.80	0.15	ppbv	TO-15
		1.0	0.80	0.18	ppbv	TO-15
		0.84	0.80	0.13	ppbv	TO-15
		12.7	0.80	0.11	ppbv	TO-15
		1.2	0.80	0.15	ppbv	TO-15
		8.8	2.0	0.38	ppbv	TO-15
		1.5	0.80	0.12	ppbv	TO-15
		3.9	0.80	0.096	ppbv	TO-15
		0.91	0.80	0.13	ppbv	TO-15
		1.3	0.80	0.18	ppbv	TO-15
		1.2	0.80	0.23	ppbv	TO-15
		2.5	0.80	0.19	ppbv	TO-15
		7.8	2.0	0.28	ppbv	TO-15
		42.4	0.80	0.088	ppbv	TO-15
		10.8	0.80	0.096	ppbv	TO-15
		3.2	0.80	0.11	ppbv	TO-15
		1.4	0.80	0.13	ppbv	TO-15
		88.5	0.16	0.11	ppbv	TO-15
		4.5	0.80	0.16	ppbv	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichlorofluoromethane		0.45 J	0.80	0.17	ppbv	TO-15
m,p-Xylene		6.4	0.80	0.12	ppbv	TO-15
o-Xylene		2.5	0.80	0.12	ppbv	TO-15
Xylenes (total)		9.0	0.80	0.12	ppbv	TO-15
Acetone		159	1.9	0.36	ug/m3	TO-15
Benzene		3.2	2.6	0.58	ug/m3	TO-15
Carbon disulfide		2.6	2.5	0.40	ug/m3	TO-15
Chloroform		62.0	3.9	0.54	ug/m3	TO-15
Dichlorodifluoromethane		5.9	4.0	0.74	ug/m3	TO-15
Ethanol		17	3.8	0.72	ug/m3	TO-15
Ethylbenzene		6.5	3.5	0.52	ug/m3	TO-15
4-Ethyltoluene		19	3.9	0.47	ug/m3	TO-15
Heptane		3.7	3.3	0.53	ug/m3	TO-15
Hexane		4.6	2.8	0.63	ug/m3	TO-15
Isopropyl Alcohol		2.9	2.0	0.57	ug/m3	TO-15
Methyl ethyl ketone		7.4	2.4	0.56	ug/m3	TO-15
Propylene		13	3.4	0.48	ug/m3	TO-15
1,1,1-Trichloroethane		231	4.4	0.48	ug/m3	TO-15
1,2,4-Trimethylbenzene		53.1	3.9	0.47	ug/m3	TO-15
1,3,5-Trimethylbenzene		16	3.9	0.54	ug/m3	TO-15
Tertiary Butyl Alcohol		4.2	2.4	0.39	ug/m3	TO-15
Tetrachloroethylene		600	1.1	0.75	ug/m3	TO-15
Toluene		17	3.0	0.60	ug/m3	TO-15
Trichlorofluoromethane		2.5 J	4.5	0.96	ug/m3	TO-15
m,p-Xylene		28	3.5	0.52	ug/m3	TO-15
o-Xylene		11	3.5	0.52	ug/m3	TO-15
Xylenes (total)		39	3.5	0.52	ug/m3	TO-15

### JB13706-14 IA-3

Acetone		12.4	0.20	0.036	ppbv	TO-15
Benzene		0.24	0.20	0.046	ppbv	TO-15
Carbon disulfide		0.27	0.20	0.032	ppbv	TO-15
Chloroform		1.7	0.20	0.028	ppbv	TO-15
Chloromethane		0.67	0.20	0.037	ppbv	TO-15
Carbon tetrachloride		0.10 J	0.20	0.040	ppbv	TO-15
Cyclohexane		0.092 J	0.20	0.034	ppbv	TO-15
Dichlorodifluoromethane		1.5	0.20	0.038	ppbv	TO-15
Ethanol		2.5	0.50	0.095	ppbv	TO-15
Ethylbenzene		0.52	0.20	0.031	ppbv	TO-15
Ethyl Acetate		0.25	0.20	0.061	ppbv	TO-15
4-Ethyltoluene		0.76	0.20	0.024	ppbv	TO-15
Heptane		0.14 J	0.20	0.033	ppbv	TO-15
Hexane		0.24	0.20	0.044	ppbv	TO-15
2-Hexanone		0.31	0.20	0.043	ppbv	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropyl Alcohol		0.80	0.20	0.059	ppbv	TO-15
Methylene chloride		0.80	0.20	0.027	ppbv	TO-15
Methyl ethyl ketone		1.2	0.20	0.048	ppbv	TO-15
Methyl Isobutyl Ketone		0.41	0.20	0.036	ppbv	TO-15
Propylene		1.6	0.50	0.070	ppbv	TO-15
Styrene		0.13 J	0.20	0.027	ppbv	TO-15
1,2,4-Trimethylbenzene		2.8	0.20	0.024	ppbv	TO-15
1,3,5-Trimethylbenzene		0.92	0.20	0.028	ppbv	TO-15
2,2,4-Trimethylpentane		0.19 J	0.20	0.028	ppbv	TO-15
Tertiary Butyl Alcohol		0.48	0.20	0.032	ppbv	TO-15
Tetrachloroethylene		1.1	0.040	0.028	ppbv	TO-15
Toluene		2.7	0.20	0.040	ppbv	TO-15
Trichloroethylene		0.096	0.040	0.033	ppbv	TO-15
Trichlorofluoromethane		0.34	0.20	0.042	ppbv	TO-15
m,p-Xylene		2.1	0.20	0.031	ppbv	TO-15
o-Xylene		0.93	0.20	0.031	ppbv	TO-15
Xylenes (total)		3.0	0.20	0.031	ppbv	TO-15
Acetone		29.5	0.48	0.086	ug/m3	TO-15
Benzene		0.77	0.64	0.15	ug/m3	TO-15
Carbon disulfide		0.84	0.62	0.10	ug/m3	TO-15
Chloroform		8.3	0.98	0.14	ug/m3	TO-15
Chloromethane		1.4	0.41	0.076	ug/m3	TO-15
Carbon tetrachloride		0.63 J	1.3	0.25	ug/m3	TO-15
Cyclohexane		0.32 J	0.69	0.12	ug/m3	TO-15
Dichlorodifluoromethane		7.4	0.99	0.19	ug/m3	TO-15
Ethanol		4.7	0.94	0.18	ug/m3	TO-15
Ethylbenzene		2.3	0.87	0.13	ug/m3	TO-15
Ethyl Acetate		0.90	0.72	0.22	ug/m3	TO-15
4-Ethyltoluene		3.7	0.98	0.12	ug/m3	TO-15
Heptane		0.57 J	0.82	0.14	ug/m3	TO-15
Hexane		0.85	0.70	0.16	ug/m3	TO-15
2-Hexanone		1.3	0.82	0.18	ug/m3	TO-15
Isopropyl Alcohol		2.0	0.49	0.15	ug/m3	TO-15
Methylene chloride		2.8	0.69	0.094	ug/m3	TO-15
Methyl ethyl ketone		3.5	0.59	0.14	ug/m3	TO-15
Methyl Isobutyl Ketone		1.7	0.82	0.15	ug/m3	TO-15
Propylene		2.7	0.86	0.12	ug/m3	TO-15
Styrene		0.55 J	0.85	0.11	ug/m3	TO-15
1,2,4-Trimethylbenzene		14	0.98	0.12	ug/m3	TO-15
1,3,5-Trimethylbenzene		4.5	0.98	0.14	ug/m3	TO-15
2,2,4-Trimethylpentane		0.89 J	0.93	0.13	ug/m3	TO-15
Tertiary Butyl Alcohol		1.5	0.61	0.097	ug/m3	TO-15
Tetrachloroethylene		7.5	0.27	0.19	ug/m3	TO-15
Toluene		10	0.75	0.15	ug/m3	TO-15
Trichloroethylene		0.52	0.21	0.18	ug/m3	TO-15

## Summary of Hits

**Job Number:** JB13706  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/13/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		1.9	1.1	0.24	ug/m3	TO-15
		9.1	0.87	0.13	ug/m3	TO-15
		4.0	0.87	0.13	ug/m3	TO-15
		13	0.87	0.13	ug/m3	TO-15

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> SV-1		
<b>Lab Sample ID:</b> JB13706-1		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A463		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29722.D	1	08/16/12	YXC	n/a	n/a	V3W1160
Run #2							

Run #1	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	10.0	0.80	0.15	ppbv		23.8	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	5.2	0.80	0.18	ppbv		17	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.80	0.80	0.13	ppbv		2.5	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.47	0.80	0.15	ppbv	J	0.97	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	0.61	0.80	0.13	ppbv	J	2.1	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.42	0.80	0.15	ppbv	J	2.1	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.52	0.80	0.15	ppbv	J	2.1	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SV-1	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13706-1	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AIR - Soil Vapor Comp. Summa ID: A463	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	12.2	2.0	0.38	ppbv		23.0	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	5.4	0.80	0.12	ppbv		23	3.5	ug/m3
141-78-6	88	Ethyl Acetate	1.6	0.80	0.24	ppbv		5.8	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.7	0.80	0.096	ppbv		8.4	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	4.3	0.80	0.13	ppbv		18	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	7.1	0.80	0.18	ppbv		25	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.0	0.80	0.23	ppbv		2.5	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.86	0.80	0.11	ppbv		3.0	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.4	0.80	0.19	ppbv		13	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	1.6	2.0	0.28	ppbv	J	2.7	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	4.0	0.80	0.096	ppbv		20	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.2	0.80	0.11	ppbv		5.9	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.97	0.80	0.11	ppbv		4.5	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	4.1	0.16	0.11	ppbv		28	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	43.6	0.80	0.16	ppbv		164	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.20	0.16	0.13	ppbv		1.1	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	20.4	0.80	0.12	ppbv		88.6	3.5	ug/m3
95-47-6	106.2	o-Xylene	5.1	0.80	0.12	ppbv		22	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	25.4	0.80	0.12	ppbv		110	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> IA-1		
<b>Lab Sample ID:</b> JB13706-2		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A191		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W37874.D	1	08/16/12	YMH	n/a	n/a	VW1534

Run #1	Initial Volume
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	8.8	0.20	0.036	ppbv		21	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.35	0.20	0.046	ppbv		1.1	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.46	0.20	0.032	ppbv		1.4	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.18	0.20	0.028	ppbv	J	0.88	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.55	0.20	0.037	ppbv		1.1	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.44	0.20	0.038	ppbv		1.7	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	IA-1	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13706-2	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AIR - Indoor Air Comp. Summa ID: A191	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	3.1	0.50	0.095	ppbv		5.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.22	0.20	0.031	ppbv		0.96	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.061	ppbv		4.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.21	0.20	0.024	ppbv		1.0	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.21	0.20	0.033	ppbv		0.86	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.31	0.20	0.044	ppbv		1.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.70	0.20	0.059	ppbv		1.7	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.20	0.027	ppbv		4.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.0	0.20	0.048	ppbv		2.9	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	1.1	0.50	0.070	ppbv		1.9	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.50	0.20	0.024	ppbv		2.5	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.26	0.20	0.028	ppbv		1.3	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.35	0.20	0.028	ppbv		1.6	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.46	0.040	0.028	ppbv		3.1	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.8	0.20	0.040	ppbv		6.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.069	0.040	0.033	ppbv		0.37	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.042	ppbv		1.5	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.73	0.20	0.031	ppbv		3.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.27	0.20	0.031	ppbv		1.2	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.0	0.20	0.031	ppbv		4.3	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> SV-2		
<b>Lab Sample ID:</b> JB13706-3		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A485		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W37875.D	1	08/16/12	YMH	n/a	n/a	VW1534
Run #2	W37887.D	1	08/16/12	YMH	n/a	n/a	VW1535

Run #	Initial Volume
Run #1	100 ml
Run #2	25.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	15.0	0.80	0.15	ppbv		35.6	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	25.4	0.80	0.18	ppbv		81.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	25.3	0.80	0.11	ppbv		124	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	3.5	0.80	0.13	ppbv		12	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.70	0.80	0.15	ppbv	J	3.5	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SV-2	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13706-3	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AIR - Soil Vapor Comp. Summa ID: A485	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	13.4	2.0	0.38	ppbv		25.2	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	58.0	0.80	0.12	ppbv		252	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	26.1	0.80	0.096	ppbv		128	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	21.9	0.80	0.13	ppbv		89.7	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	28.3	0.80	0.18	ppbv		99.7	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.87	0.80	0.23	ppbv		2.1	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.86	0.80	0.11	ppbv		3.0	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.7	0.80	0.19	ppbv		5.0	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	252 <sup>a</sup>	3.2	0.35	ppbv		1370 <sup>a</sup>	17	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	78.4	0.80	0.096	ppbv		385	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	20.6	0.80	0.11	ppbv		101	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	3.2	0.80	0.11	ppbv		15	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	68.8	0.16	0.11	ppbv		467	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.9	0.80	0.19	ppbv		5.6	2.4	ug/m3
108-88-3	92.14	Toluene	414 <sup>a</sup>	3.2	0.64	ppbv		1560 <sup>a</sup>	12	ug/m3
79-01-6	131.4	Trichloroethylene	0.87	0.16	0.13	ppbv		4.7	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.52	0.80	0.17	ppbv	J	2.9	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	276	0.80	0.12	ppbv		1200	3.5	ug/m3
95-47-6	106.2	o-Xylene	69.4	0.80	0.12	ppbv		301	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	345	0.80	0.12	ppbv		1500	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	97%	65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> SV-2		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13706-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A485		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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

## Report of Analysis

<b>Client Sample ID:</b> IA-2		
<b>Lab Sample ID:</b> JB13706-4		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A480		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W37876.D	1	08/16/12	YMH	n/a	n/a	VW1534
Run #2							

Run #1	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	8.6	0.20	0.036	ppbv		20	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.21	0.20	0.046	ppbv		0.67	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.28	0.20	0.032	ppbv		0.87	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.18	0.20	0.028	ppbv	J	0.88	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.73	0.20	0.037	ppbv		1.5	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.20	0.038	ppbv		2.7	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	IA-2	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13706-4	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AIR - Indoor Air Comp. Summa ID: A480	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.1	0.50	0.095	ppbv		2.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.20	0.20	0.031	ppbv		0.87	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.99	0.20	0.061	ppbv		3.6	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.23	0.20	0.044	ppbv		0.81	0.70	ug/m3
591-78-6	100	2-Hexanone	0.18	0.20	0.043	ppbv	J	0.74	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.30	0.20	0.059	ppbv		0.74	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.63	0.20	0.027	ppbv		2.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.1	0.20	0.048	ppbv		3.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	1.6	0.50	0.070	ppbv		2.7	0.86	ug/m3
100-42-5	104.1	Styrene	0.12	0.20	0.027	ppbv	J	0.51	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.39	0.20	0.022	ppbv		2.1	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.29	0.20	0.024	ppbv		1.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.11	0.20	0.028	ppbv	J	0.54	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.18	0.20	0.028	ppbv	J	0.84	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.61	0.040	0.028	ppbv		4.1	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.0	0.20	0.040	ppbv		3.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.15	0.040	0.033	ppbv		0.81	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.32	0.20	0.042	ppbv		1.8	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.59	0.20	0.031	ppbv		2.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.23	0.20	0.031	ppbv		1.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.83	0.20	0.031	ppbv		3.6	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> SV-4		
<b>Lab Sample ID:</b> JB13706-5		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A882		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W37877.D	1	08/16/12	YMH	n/a	n/a	VW1534
Run #2	W37888.D	1	08/16/12	YMH	n/a	n/a	VW1535

Run #	Initial Volume
Run #1	100 ml
Run #2	50.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	34.0	0.80	0.15	ppbv		80.8	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	15.1	0.80	0.18	ppbv		48.2	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.52	0.80	0.15	ppbv	J	1.1	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	2.8	0.80	0.13	ppbv		9.6	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.57	0.80	0.15	ppbv	J	2.8	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SV-4	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13706-5	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AIR - Soil Vapor Comp. Summa ID: A882	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	14.6	2.0	0.38	ppbv		27.5	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	36.9	0.80	0.12	ppbv		160	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	16.8	0.80	0.096	ppbv		82.6	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	13.3	0.80	0.13	ppbv		54.5	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	15.7	0.80	0.18	ppbv		55.3	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.1	0.80	0.23	ppbv		5.2	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.90	0.80	0.11	ppbv		3.1	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.4	0.80	0.19	ppbv		10	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	1.0	0.80	0.14	ppbv		4.1	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	1.8	0.80	0.17	ppbv		7.4	3.3	ug/m3
115-07-1	42	Propylene	9.3	2.0	0.28	ppbv		16	3.4	ug/m3
100-42-5	104.1	Styrene	0.40	0.80	0.11	ppbv	J	1.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	54.2	0.80	0.096	ppbv		266	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	14.3	0.80	0.11	ppbv		70.3	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	3.5	0.80	0.11	ppbv		16	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	23.2	0.16	0.11	ppbv		157	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.4	0.80	0.19	ppbv		4.1	2.4	ug/m3
108-88-3	92.14	Toluene	170 <sup>a</sup>	1.6	0.32	ppbv		641 <sup>a</sup>	6.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	178	0.80	0.12	ppbv		773	3.5	ug/m3
95-47-6	106.2	o-Xylene	46.1	0.80	0.12	ppbv		200	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	224	0.80	0.12	ppbv		973	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	100%	65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> SV-4		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13706-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A882		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> IA-4		
<b>Lab Sample ID:</b> JB13706-6		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A190		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W37878.D	1	08/16/12	YMH	n/a	n/a	VW1534

Run #1	Initial Volume
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	29.8	0.20	0.036	ppbv		70.8	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.45	0.20	0.046	ppbv		1.4	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.36	0.20	0.032	ppbv		1.1	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.19	0.20	0.028	ppbv	J	0.93	0.98	ug/m3
74-87-3	50.49	Chloromethane	1.5	0.20	0.037	ppbv		3.1	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

## Report of Analysis

<b>Client Sample ID:</b>	IA-4	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13706-6	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AIR - Indoor Air Comp. Summa ID: A190	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	6.0	0.50	0.095	ppbv		11	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.72	0.20	0.031	ppbv		3.1	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.4	0.20	0.061	ppbv		5.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.29	0.20	0.024	ppbv		1.4	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.56	0.20	0.033	ppbv		2.3	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.55	0.20	0.044	ppbv		1.9	0.70	ug/m3
591-78-6	100	2-Hexanone	1.5	0.20	0.043	ppbv		6.1	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.3	0.20	0.059	ppbv		3.2	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.65	0.20	0.027	ppbv		2.3	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	5.7	0.20	0.048	ppbv		17	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	1.2	0.20	0.036	ppbv		4.9	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	2.1	0.50	0.070	ppbv		3.6	0.86	ug/m3
100-42-5	104.1	Styrene	0.14	0.20	0.027	ppbv	J	0.60	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.7	0.20	0.024	ppbv		8.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.49	0.20	0.028	ppbv		2.4	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.43	0.20	0.028	ppbv		2.0	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.0	0.040	0.028	ppbv		6.8	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	3.8	0.20	0.040	ppbv		14	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.13	0.040	0.033	ppbv		0.70	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.33	0.20	0.042	ppbv		1.9	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	2.7	0.20	0.031	ppbv		12	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.86	0.20	0.031	ppbv		3.7	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	3.6	0.20	0.031	ppbv		16	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> SV-5		
<b>Lab Sample ID:</b> JB13706-7		<b>Date Sampled:</b> 08/09/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A650,A435		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W37879.D	1	08/16/12	YMH	n/a	n/a	VW1534
Run #2	W37889.D	23	08/16/12	YMH	n/a	n/a	VW1535

Run #	Initial Volume
Run #1	100 ml
Run #2	200 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	518 <sup>a</sup>	9.2	1.7	ppbv		1230 <sup>a</sup>	22	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	108	0.80	0.18	ppbv		345	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	1.5	0.80	0.13	ppbv		4.7	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	6.1	0.80	0.11	ppbv		30	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	24.0	0.80	0.13	ppbv		82.6	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.66	0.80	0.15	ppbv	J	3.3	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

### Report of Analysis

<b>Client Sample ID:</b> SV-5		
<b>Lab Sample ID:</b> JB13706-7		<b>Date Sampled:</b> 08/09/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A650,A435		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	104	2.0	0.38	ppbv		196	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	117	0.80	0.12	ppbv		508	3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.2	0.80	0.24	ppbv		12	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	33.7	0.80	0.096	ppbv		166	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	109	0.80	0.13	ppbv		447	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	147 <sup>a</sup>	9.2	2.0	ppbv		518 <sup>a</sup>	32	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.5	0.80	0.23	ppbv		3.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	2.6	0.80	0.11	ppbv		9.0	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	13.4	0.80	0.19	ppbv		39.5	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	2.2	0.80	0.14	ppbv		9.0	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	16.0	0.80	0.17	ppbv		65.5	3.3	ug/m3
115-07-1	42	Propylene	51.1	2.0	0.28	ppbv		87.8	3.4	ug/m3
100-42-5	104.1	Styrene	0.73	0.80	0.11	ppbv	J	3.1	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.8	0.80	0.088	ppbv		9.8	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	96.2	0.80	0.096	ppbv		473	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	27.2	0.80	0.11	ppbv		134	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	41.0	0.80	0.11	ppbv		192	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	12.7	0.80	0.13	ppbv		38.5	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	71.6	0.16	0.11	ppbv		486	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	10	0.80	0.19	ppbv		29	2.4	ug/m3
108-88-3	92.14	Toluene	799 <sup>a</sup>	9.2	1.8	ppbv		3010 <sup>a</sup>	35	ug/m3
79-01-6	131.4	Trichloroethylene	434 <sup>a</sup>	1.8	1.5	ppbv		2330 <sup>a</sup>	9.7	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	459 <sup>a</sup>	9.2	1.4	ppbv		1990 <sup>a</sup>	40	ug/m3
95-47-6	106.2	o-Xylene	125	0.80	0.12	ppbv		543	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	584 <sup>a</sup>	9.2	1.4	ppbv		2530 <sup>a</sup>	40	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%	96%	65-128%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> SV-5		<b>Date Sampled:</b> 08/09/12
<b>Lab Sample ID:</b> JB13706-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A650,A435		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SV-6		<b>Date Sampled:</b> 08/09/12
<b>Lab Sample ID:</b> JB13706-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A822		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W37880.D	1	08/16/12	YMH	n/a	n/a	VW1534
Run #2							

Run #1	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	10.9	0.80	0.15	ppbv		25.9	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.62	0.80	0.18	ppbv	J	2.0	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.61	0.80	0.15	ppbv	J	3.0	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> SV-6		
<b>Lab Sample ID:</b> JB13706-8		<b>Date Sampled:</b> 08/09/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A822		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	7.9	2.0	0.38	ppbv		15	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.53	0.80	0.12	ppbv	J	2.3	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.59	0.80	0.13	ppbv	J	2.4	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.90	0.80	0.18	ppbv		3.2	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.80	0.23	ppbv		2.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.1	0.80	0.19	ppbv		3.2	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.28	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.61	0.80	0.096	ppbv	J	3.0	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.55	0.80	0.11	ppbv	J	2.6	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.30	0.16	0.11	ppbv		2.0	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	3.5	0.80	0.16	ppbv		13	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.8	0.80	0.12	ppbv		7.8	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.54	0.80	0.12	ppbv	J	2.3	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.3	0.80	0.12	ppbv		10	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> SV-7		
<b>Lab Sample ID:</b> JB13706-9		<b>Date Sampled:</b> 08/09/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A340		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W37881.D	1	08/16/12	YMH	n/a	n/a	VW1534
Run #2							

Run #1	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	21.7	0.80	0.15	ppbv		51.5	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	10.9	0.80	0.18	ppbv		34.8	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.78	0.80	0.15	ppbv	J	3.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.74	0.80	0.15	ppbv	J	2.9	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SV-7		<b>Date Sampled:</b> 08/09/12
<b>Lab Sample ID:</b> JB13706-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A340		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	12.9	2.0	0.38	ppbv		24.3	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	13.8	0.80	0.12	ppbv		59.9	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	3.2	0.80	0.096	ppbv		16	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	9.0	0.80	0.13	ppbv		37	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	12.0	0.80	0.18	ppbv		42.3	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.9	0.80	0.23	ppbv		7.1	2.0	ug/m3
75-09-2	84.94	Methylene chloride	1.1	0.80	0.11	ppbv		3.8	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.3	0.80	0.19	ppbv		6.8	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	3.0	2.0	0.28	ppbv		5.2	3.4	ug/m3
100-42-5	104.1	Styrene	0.43	0.80	0.11	ppbv	J	1.8	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	9.4	0.80	0.096	ppbv		46	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	2.8	0.80	0.11	ppbv		14	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.8	0.80	0.11	ppbv		8.4	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	9.4	0.16	0.11	ppbv		64	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.88	0.80	0.19	ppbv		2.6	2.4	ug/m3
108-88-3	92.14	Toluene	94.8	0.80	0.16	ppbv		357	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.17	0.16	0.13	ppbv		0.91	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.0	0.80	0.17	ppbv		11	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	55.1	0.80	0.12	ppbv		239	3.5	ug/m3
95-47-6	106.2	o-Xylene	13.9	0.80	0.12	ppbv		60.4	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	69.0	0.80	0.12	ppbv		300	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

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

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## Report of Analysis

<b>Client Sample ID:</b> SV-9		
<b>Lab Sample ID:</b> JB13706-10		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A1036		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29723.D	1	08/16/12	YXC	n/a	n/a	V3W1160
Run #2	3W29724.D	1	08/16/12	YXC	n/a	n/a	V3W1160

Run #	Initial Volume
Run #1	100 ml
Run #2	25.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	109	0.80	0.15	ppbv		259	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	4.5	0.80	0.18	ppbv		14	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	1.7	0.80	0.11	ppbv		8.3	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	1.9	0.80	0.13	ppbv		6.5	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.80	0.15	ppbv	J	2.2	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SV-9		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13706-10		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A1036		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	11.4	2.0	0.38	ppbv		21.5	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	27.2	0.80	0.12	ppbv		118	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	9.8	0.80	0.096	ppbv		48	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	8.5	0.80	0.13	ppbv		35	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	4.8	0.80	0.18	ppbv		17	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	21.2	0.80	0.23	ppbv		52.1	2.0	ug/m3
75-09-2	84.94	Methylene chloride	3.1	0.80	0.11	ppbv		11	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	14.7	0.80	0.19	ppbv		43.4	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	9.8	0.80	0.14	ppbv		40	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	1.4	2.0	0.28	ppbv	J	2.4	3.4	ug/m3
100-42-5	104.1	Styrene	4.3	0.80	0.11	ppbv		18	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	27.5	0.80	0.096	ppbv		135	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	7.4	0.80	0.11	ppbv		36	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.76	0.80	0.11	ppbv	J	3.5	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.4	0.80	0.13	ppbv		4.2	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	90.6	0.16	0.11	ppbv		614	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	346 <sup>a</sup>	3.2	0.64	ppbv		1300 <sup>a</sup>	12	ug/m3
79-01-6	131.4	Trichloroethylene	160 <sup>a</sup>	0.64	0.52	ppbv		860 <sup>a</sup>	3.4	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	120	0.80	0.12	ppbv		521	3.5	ug/m3
95-47-6	106.2	o-Xylene	34.0	0.80	0.12	ppbv		148	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	154	0.80	0.12	ppbv		669	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	97%	65-128%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SV-9		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13706-10		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A1036		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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

## Report of Analysis

<b>Client Sample ID:</b> SV-10		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13706-11		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A248		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29725.D	1	08/16/12	YXC	n/a	n/a	V3W1160
Run #2							

Run #1	Initial Volume
Run #1	50.0 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	72.8	1.6	0.29	ppbv		173	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	1.6	0.19	ppbv		ND	3.5	ug/m3
71-43-2	78.11	Benzene	29.2	1.6	0.37	ppbv		93.3	5.1	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	1.6	0.24	ppbv		ND	11	ug/m3
75-25-2	252.8	Bromoform	ND	1.6	0.30	ppbv		ND	17	ug/m3
74-83-9	94.94	Bromomethane	ND	1.6	0.29	ppbv		ND	6.2	ug/m3
593-60-2	106.9	Bromoethene	ND	1.6	0.29	ppbv		ND	7.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	1.6	0.33	ppbv		ND	8.2	ug/m3
75-15-0	76.14	Carbon disulfide	0.98	1.6	0.26	ppbv	J	3.1	5.0	ug/m3
108-90-7	112.6	Chlorobenzene	ND	1.6	0.22	ppbv		ND	7.4	ug/m3
75-00-3	64.52	Chloroethane	ND	1.6	0.31	ppbv		ND	4.2	ug/m3
67-66-3	119.4	Chloroform	ND	1.6	0.22	ppbv		ND	7.8	ug/m3
74-87-3	50.49	Chloromethane	ND	1.6	0.30	ppbv		ND	3.3	ug/m3
107-05-1	76.53	3-Chloropropene	ND	1.6	0.33	ppbv		ND	5.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	1.6	0.25	ppbv		ND	8.3	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	1.6	0.32	ppbv		ND	10	ug/m3
110-82-7	84.16	Cyclohexane	5.8	1.6	0.27	ppbv		20	5.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	1.6	0.22	ppbv		ND	6.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	1.6	0.37	ppbv		ND	6.3	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	1.6	0.22	ppbv		ND	12	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	1.6	0.35	ppbv		ND	6.5	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	1.6	0.31	ppbv		ND	7.4	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	1.6	0.45	ppbv		ND	5.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	1.6	0.30	ppbv		ND	7.9	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	1.6	0.22	ppbv		ND	14	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	1.6	0.26	ppbv		ND	6.3	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	1.6	0.30	ppbv		ND	6.3	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	1.6	0.34	ppbv		ND	7.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	1.6	0.30	ppbv		ND	9.6	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	1.6	0.21	ppbv		ND	9.6	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	1.6	0.20	ppbv		ND	9.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	1.6	0.31	ppbv		ND	7.3	ug/m3

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

## Report of Analysis

<b>Client Sample ID:</b> SV-10		
<b>Lab Sample ID:</b> JB13706-11		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A248		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	22.3	4.0	0.76	ppbv		42.0	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	43.6	1.6	0.24	ppbv		189	6.9	ug/m3
141-78-6	88	Ethyl Acetate	ND	1.6	0.49	ppbv		ND	5.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	13.2	1.6	0.19	ppbv		64.9	7.9	ug/m3
76-13-1	187.4	Freon 113	ND	1.6	0.27	ppbv		ND	12	ug/m3
76-14-2	170.9	Freon 114	ND	1.6	0.25	ppbv		ND	11	ug/m3
142-82-5	100.2	Heptane	35.5	1.6	0.27	ppbv		145	6.6	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	1.6	0.37	ppbv		ND	17	ug/m3
110-54-3	86.17	Hexane	51.6	1.6	0.35	ppbv		182	5.6	ug/m3
591-78-6	100	2-Hexanone	ND	1.6	0.34	ppbv		ND	6.5	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.1	1.6	0.47	ppbv		5.2	3.9	ug/m3
75-09-2	84.94	Methylene chloride	ND	1.6	0.22	ppbv		ND	5.6	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.6	1.6	0.38	ppbv		7.7	4.7	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	1.6	0.29	ppbv		ND	6.6	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	1.6	0.22	ppbv		ND	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	1.6	0.34	ppbv		ND	6.6	ug/m3
115-07-1	42	Propylene	ND	4.0	0.56	ppbv		ND	6.9	ug/m3
100-42-5	104.1	Styrene	ND	1.6	0.22	ppbv		ND	6.8	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	2.7	1.6	0.18	ppbv		15	8.7	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	1.6	0.24	ppbv		ND	11	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	1.6	0.24	ppbv		ND	8.7	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	1.6	0.41	ppbv		ND	12	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	47.7	1.6	0.19	ppbv		235	7.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	13.0	1.6	0.22	ppbv		63.9	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	8.0	1.6	0.23	ppbv		37	7.5	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.0	1.6	0.26	ppbv		9.1	4.9	ug/m3
127-18-4	165.8	Tetrachloroethylene	25.4	0.32	0.23	ppbv		172	2.2	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.8	1.6	0.37	ppbv		8.3	4.7	ug/m3
108-88-3	92.14	Toluene	293	1.6	0.32	ppbv		1100	6.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.32	0.26	ppbv		ND	1.7	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	1.6	0.34	ppbv		ND	9.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	1.6	0.26	ppbv		ND	4.1	ug/m3
108-05-4	86	Vinyl Acetate	ND	1.6	0.45	ppbv		ND	5.6	ug/m3
	106.2	m,p-Xylene	168	1.6	0.25	ppbv		730	6.9	ug/m3
95-47-6	106.2	o-Xylene	53.7	1.6	0.25	ppbv		233	6.9	ug/m3
1330-20-7	106.2	Xylenes (total)	222	1.6	0.25	ppbv		964	6.9	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> IA-5		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13706-12		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A861		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29728.D	1	08/16/12	YXC	n/a	n/a	V3W1160
Run #2	3W29729.D	1	08/16/12	YXC	n/a	n/a	V3W1160

Run #	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	80.5 <sup>a</sup>	0.80	0.15	ppbv		191 <sup>a</sup>	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.37	0.20	0.046	ppbv		1.2	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.16	0.20	0.032	ppbv	J	0.50	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.54	0.20	0.037	ppbv		1.1	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.15	0.20	0.034	ppbv	J	0.52	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.20	0.038	ppbv		2.2	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

## Report of Analysis

<b>Client Sample ID:</b> IA-5		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13706-12		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A861		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	16.8	0.50	0.095	ppbv		31.7	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.34	0.20	0.031	ppbv		1.5	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.50	0.20	0.061	ppbv		1.8	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.16	0.20	0.024	ppbv	J	0.79	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.6	0.20	0.033	ppbv		6.6	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.59	0.20	0.044	ppbv		2.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.7	0.20	0.059	ppbv		9.1	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.0	0.20	0.027	ppbv		3.5	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5	0.20	0.048	ppbv		4.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.29	0.20	0.036	ppbv		1.2	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.24	0.20	0.027	ppbv		1.0	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.69	0.20	0.024	ppbv		3.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.20	0.20	0.028	ppbv		0.98	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.35	0.20	0.028	ppbv		1.6	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.088	0.040	0.028	ppbv		0.60	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	3.2	0.20	0.040	ppbv		12	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.061	0.040	0.033	ppbv		0.33	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.23	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.2	0.20	0.031	ppbv		5.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.37	0.20	0.031	ppbv		1.6	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.5	0.20	0.031	ppbv		6.5	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	98%	65-128%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> IA-5		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13706-12		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A861		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SV-3		
<b>Lab Sample ID:</b> JB13706-13		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A1032		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29730.D	1	08/16/12	YXC	n/a	n/a	V3W1160
Run #2							

Run #1	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	67.0	0.80	0.15	ppbv		159	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	1.0	0.80	0.18	ppbv		3.2	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.84	0.80	0.13	ppbv		2.6	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	12.7	0.80	0.11	ppbv		62.0	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.15	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.2	0.80	0.15	ppbv		5.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SV-3		
<b>Lab Sample ID:</b> JB13706-13		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AIR - Soil Vapor Comp. Summa ID: A1032		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	8.8	2.0	0.38	ppbv		17	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.5	0.80	0.12	ppbv		6.5	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	3.9	0.80	0.096	ppbv		19	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.91	0.80	0.13	ppbv		3.7	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.3	0.80	0.18	ppbv		4.6	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.80	0.23	ppbv		2.9	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.5	0.80	0.19	ppbv		7.4	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	7.8	2.0	0.28	ppbv		13	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	42.4	0.80	0.088	ppbv		231	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	10.8	0.80	0.096	ppbv		53.1	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	3.2	0.80	0.11	ppbv		16	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.4	0.80	0.13	ppbv		4.2	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	88.5	0.16	0.11	ppbv		600	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.19	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	4.5	0.80	0.16	ppbv		17	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.45	0.80	0.17	ppbv	J	2.5	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	6.4	0.80	0.12	ppbv		28	3.5	ug/m3
95-47-6	106.2	o-Xylene	2.5	0.80	0.12	ppbv		11	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	9.0	0.80	0.12	ppbv		39	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

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

## Report of Analysis

<b>Client Sample ID:</b> IA-3		
<b>Lab Sample ID:</b> JB13706-14		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A207		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W29731.D	1	08/16/12	YXC	n/a	n/a	V3W1160
Run #2							

Run #1	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	12.4	0.20	0.036	ppbv		29.5	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.24	0.20	0.046	ppbv		0.77	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.27	0.20	0.032	ppbv		0.84	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	1.7	0.20	0.028	ppbv		8.3	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.67	0.20	0.037	ppbv		1.4	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.10	0.20	0.040	ppbv	J	0.63	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.092	0.20	0.034	ppbv	J	0.32	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.5	0.20	0.038	ppbv		7.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

### Report of Analysis

<b>Client Sample ID:</b> IA-3		
<b>Lab Sample ID:</b> JB13706-14		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AIR - Indoor Air Comp. Summa ID: A207		<b>Date Received:</b> 08/14/12
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

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CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.5	0.50	0.095	ppbv		4.7	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.52	0.20	0.031	ppbv		2.3	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.25	0.20	0.061	ppbv		0.90	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.76	0.20	0.024	ppbv		3.7	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.14	0.20	0.033	ppbv	J	0.57	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.24	0.20	0.044	ppbv		0.85	0.70	ug/m3
591-78-6	100	2-Hexanone	0.31	0.20	0.043	ppbv		1.3	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.80	0.20	0.059	ppbv		2.0	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.80	0.20	0.027	ppbv		2.8	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.20	0.048	ppbv		3.5	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.41	0.20	0.036	ppbv		1.7	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	1.6	0.50	0.070	ppbv		2.7	0.86	ug/m3
100-42-5	104.1	Styrene	0.13	0.20	0.027	ppbv	J	0.55	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.8	0.20	0.024	ppbv		14	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.92	0.20	0.028	ppbv		4.5	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.19	0.20	0.028	ppbv	J	0.89	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.48	0.20	0.032	ppbv		1.5	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.1	0.040	0.028	ppbv		7.5	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.7	0.20	0.040	ppbv		10	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.096	0.040	0.033	ppbv		0.52	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.34	0.20	0.042	ppbv		1.9	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	2.1	0.20	0.031	ppbv		9.1	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.93	0.20	0.031	ppbv		4.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	3.0	0.20	0.031	ppbv		13	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Misc. Forms

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## Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

Company Name <i>FLEMING LEE SHUE</i>		Project Name <i>ROCKROSE FLEET SITE</i>		Weather Parameters		Requested Analysis	
Address <i>158 W 29th ST</i>		Street <i>JACKSON AVE</i>		Temperature (Fahrenheit)			
City <i>NY</i> State <i>NY</i> Zip <i>10801</i>		City <i>LONG ISLAND CITY</i> State <i>NY</i>		Start: _____ Maximum: _____			
Project Contact <i>RAHUL BHATIA</i> E-mail <i>RAHUL@FLEMINGLEESHUE.COM</i>		Project #		Stop: _____ Minimum: _____			
Phone # <i>212-675-3225</i>		Client Purchase Order #		Atmospheric Pressure (inches of Hg)			
Sampler(s) Name(s) <i>RAHUL BHATIA</i>				Start: _____ Maximum: _____			
				Stop: _____ Minimum: _____			
Other weather comment:							

Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info				Start Sampling Information					Stop Sampling Information				
			Indoor (I) Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (Hg)	Interior Temp (F)	Sampler Init.
-1	SV-1	SV	1412	6L	02209	8/8/12	1005	-28	77	RVB	8/8/12	1230	-1	72	RVB	
-2	EA-1	F	3423		03016	8/8/12	1010	-28	77	RVB	8/8/12	1240	-1	74	RVB	
-3	SV-2	SV	1400		04883	8/8/12	1030	-28	73	RVB	8/8/12	1255	-1	73	RVB	
-4	EA-2	F	1441		02260	8/8/12	1050	-29	72	RVB	8/8/12	1330	-2	72	RVB	
-5	SV-4	SV	8624		04871	8/8/12	0940	-30	73	RVB	8/8/12	1155	-1	72	RVB	
-6	EA-4	F	3421		02535	8/8/12	0950	-28	74	RVB	8/8/12	1200	-2	73	RVB	
-7	SV-5	SV	6540		01622	8/9/12	1110	-28	81	RVB	8/9/12	1325	-1	80	RVB	
-8	SV-6	SV	A822		02524	8/9/12	1200	-29	80	RVB	8/9/12	1410	-1	82	RVB	
-9	SV-7	SV	5215		02784	8/9/12	1210	-28	83	RVB	8/9/12	1425	-2	83	RVB	

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
Standard - 15 Days	<input checked="" type="checkbox"/>	All NJDEP TO-15 is mandatory Full T1		<i>Summa</i>	
10 Day	<input type="checkbox"/>	Comm A			
5 Day	<input type="checkbox"/>	Comm B			
3 Day	<input type="checkbox"/>	Reduced T2			
2 Day	<input type="checkbox"/>	Full T1			
1 Day	<input type="checkbox"/>	Other:			
Other	<input type="checkbox"/>				

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Laboratory 1 <i>Ray Marwan</i> 9:30	Date/Time 8/4/12	Received by: 1	Relinquished by: 2	Date/Time: 8/14/12	Received by: 2
Relinquished by: 3 <i>RAHUL</i>	Date/Time: 8/14/12	Received by: 3 <i>Chris Sant</i>	Relinquished by: 4 <i>Chris Sant</i>	Date/Time: 8/14/12	Received by: 4 <i>Marwan</i>
Relinquished by: 5	Date/Time:	Received by: 5	Custody Seal #		

# CHAIN OF CUSTODY

## Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810  
 Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking # \_\_\_\_\_ Bottle Order Control # MV-8/3/2012-20 PAGE 2 of 2  
 Lab Quote # \_\_\_\_\_ Lab Job # JB13706

Client / Reporting Information		Project Name		Weather Parameters		Requested Analysis	
Company Name <u>FLEMING LEE-SHUG</u>		Project Name <u>ROCKROSE FLIGHT SITE</u>		Temperature (Fahrenheit)			
Address <u>158 W 200 ST</u>		Street <u>TACKSON AVE</u>		Start: _____ Maximum: _____			
City <u>NY</u> State <u>NY</u> Zip <u>10579</u>		City <u>LONG ISLAND CITY NY</u> State <u>NY</u>		Stop: _____ Minimum: _____			
Project Contact <u>RAHUL BHATIA</u> E-mail <u>RAHUL@FLEMING.COM</u>		Project # <u>06LEESITE-CUM</u>		Atmospheric Pressure (inches of Hg)			
Phone # _____ Fax # _____		Client Purchase Order # _____		Start: _____ Maximum: _____			
Sampler(s) Name(s)		Other weather comment:					

Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info				Start Sampling Information					Stop Sampling Information				
			Indoor (I) Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.
10	SV-9	SV	1036	6L	04858	8/13/12	0930	-30	75	RB	8/13/12	1215	-1	77	RB	
11	SV-10	SV	4836	1L	02063	8/13/12	1000	-28	75	RB	8/13/12	1220	-1	78	RB	
12	EA-5	F	7772	1L	FC18e	8/13/12	1010	-28	75	RB	8/13/12	1230	-2	78	RB	
13	SV-3	SV	A1032	1L	02063	8/13/12	1030	-30	75	RB	8/13/12	1240	-1	77	RB	
14	EA-3	F	A207	1L	02333	8/13/12	1035	-29	75	RB	8/13/12	1255	7	77	RB	

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
Standard - 15 Days		All NJDEP TO-15 is mandatory Full T1			
10 Day		Comm A			
5 Day		Comm B			
3 Day		Reduced T2			
2 Day		Full T1			
1 Day		Other:			
Other		Approved By: _____			
		Date: _____			

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory 1 <u>Roy Mawran</u> 9:30	Date/Time 8/14/12	Received by: 1 _____	Relinquished by: 2 _____	Date/Time 8/14/12	Received by: 2 _____
Relinquished by: 3 <u>Chris Land</u>	Date/Time 8/13/12	Received by: 3 <u>Chris Land</u> 1346	Relinquished by: 4 <u>Chris Land</u>	Date/Time 8/14/12	Received by: 4 <u>Moham</u>
Relinquished by: 5 _____	Date/Time	Received by: 5 _____	Custody Seal #		

**JB13706: Chain of Custody**

**Page 2 of 5**

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Job# JB13706  
(REQUIRED)

## Unused Summa Return Form

Client FCS Office NY  
Project Perchase

#Summas ( ) #Flow Controllers ( )

Summa#'s -15 A188 FC439  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Rec'd By M. Thomas Rec'd Date/Time 2/14/12 1630

Rec'd via Carroll Chais  
(Attach any client paperwork, documentation, or airbills if available)

Notes \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Accutest Job Number:** JB13706      **Client:** FLS-NY      **Project:** ROCKROSE  
**Date / Time Received:** 8/14/2012 1630      **Delivery Method:** Accutest Courier      **Airbill #s:** N/A

**Cooler Temps (Initial/Adjusted):**

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	_____	
3. Cooler media:	_____	
4. No, Coolers	_____	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact _____	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments ANALYSES?

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**Accutest Job Number:** JB13706

**CSR:** Tammy McCloskey

**Response Date:** 8/15/2012

**Response:** Analysis is VTO15STD per Rahul @ Fleming Lee Shue

# Summa Canister and Flow Controller Log

**Job Number:** JB13706  
**Account:** FLSNYYY Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Received:** 08/14/12

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A463	6	29.4	08/03/12	DR	CP5540	W37263.D	JB13706-1	08/15/12	HT	0			1
A191	6	29.4	08/03/12	DR	CP5536	W37160.D	JB13706-2	08/15/12	HT	.5			1
A485	6	29.4	08/03/12	DR	CP5540	W37263.D	JB13706-3	08/15/12	HT	.5			1
A480	6	29.4	08/03/12	DR	CP5540	W37263.D	JB13706-4	08/15/12	HT	0			1
A882	6	29.4	08/03/12	DR	CP5536	W37160.D	JB13706-5	08/15/12	HT	.5			1
A190	6	29.4	08/03/12	DR	CP5540	W37263.D	JB13706-6	08/15/12	HT	.5			1
A650	6	29.4	08/03/12	DR	CP5540	W37263.D	JB13706-7	08/15/12	HT	1.5			1
A822	6	29.4	08/03/12	DR	CP5548	W37380.D	JB13706-8	08/15/12	HT	1.5			1
A340	6	29.4	08/03/12	DR	CP5536	W37160.D	JB13706-9	08/15/12	HT	.5			1
A1036	6	29.4	08/03/12	DR	CP5541	3W29031.D	JB13706-10	08/15/12	HT	.5			1
A248	6	29.4	08/03/12	DR	CP5548	W37380.D	JB13706-11	08/15/12	HT	.5			1
A861	6	29.4	08/03/12	DR	CP5548	W37380.D	JB13706-12	08/15/12	HT	1			1
A1032	6	29.4	08/03/12	DR	CP5541	3W29031.D	JB13706-13	08/15/12	HT	1			1
A207	6	29.4	08/03/12	DR	CP5540	W37263.D	JB13706-14	08/15/12	HT	0			1

FLOW CONTROLLERS								
Shipping					Receiving			
Flow Ctrl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	
FC174	08/03/12	DR	41	2	08/17/12	DR	42	
FC180	08/03/12	DR	41	2	08/17/12	DR	41	
FC184	08/03/12	DR	41	2	08/17/12	DR	41	
FC229	08/03/12	DR	41	2	08/17/12	DR	41.5	
FC271	08/03/12	DR	41	2	08/17/12	DR	41	
FC282	08/03/12	DR	41	2	08/17/12	DR	41.5	
FC308	08/03/12	DR	41	2	08/17/12	DR	42	
FC313	08/03/12	DR	41	2	08/17/12	DR	49	
FC320	08/03/12	DR	41	2	08/17/12	DR	41	
FC366	08/03/12	DR	41	2	08/17/12	DR	41.5	
FC424	08/03/12	DR	41	2	08/17/12	DR	41.5	
FC439	08/03/12	DR	41	2	08/17/12	DR	41.5	
FC483	08/03/12	DR	41	2	08/17/12	DR	42	
FC496	08/03/12	DR	41	2	08/17/12	DR	41	
FC508	08/03/12	DR	41	2	08/17/12	DR	41	

**Accutest Bottle Order(s):**  
 MV-8/3/2012-20

**Prep Date** 08/03/12    **Room Temp(F)** 70    **Bar Pres "Hg** 29.92

5.2  
 5

Technical Report for

Fleming-Lee Shue, Inc.

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

10112-002-1

Accutest Job Number: JB13726

Sampling Dates: 08/06/12 - 08/13/12

Report to:

Fleming-Lee Shue, Inc.

rahul@flemingleeshue.com

ATTN: Rahul Bhatia

Total number of pages in report: **258**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole  
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Fleming-Lee Shue, Inc.

Job No: JB13726

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
 Project No: 10112-002-1

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB13726-1	08/08/12	08:40 RB	08/14/12	SO	Soil	SB-1(0-2')
JB13726-2	08/08/12	08:45 RB	08/14/12	SO	Soil	SB-1(6-8')
JB13726-3	08/07/12	14:00 RB	08/14/12	SO	Soil	SB-2 ALT(0-2)
JB13726-4	08/07/12	14:05 RB	08/14/12	SO	Soil	SB-2 ALT(6-8)
JB13726-5	08/13/12	11:30 RB	08/14/12	SO	Soil	SB-3(0-2)
JB13726-6	08/13/12	11:40 RB	08/14/12	SO	Soil	SB-3(12-14)
JB13726-7	08/06/12	12:00 RB	08/14/12	SO	Soil	SB-4(0-2)
JB13726-8	08/06/12	12:10 RB	08/14/12	SO	Soil	SB-4(6-8)
JB13726-9	08/10/12	09:30 RB	08/14/12	SO	Soil	SB-5(0-2)
JB13726-10	08/10/12	09:40 RB	08/14/12	SO	Soil	SB-5(10-12)
JB13726-11	08/13/12	09:00 RB	08/14/12	SO	Soil	SB-6(0-2) ALT
JB13726-12	08/13/12	09:10 RB	08/14/12	SO	Soil	SB-6(12-14) ALT
JB13726-13	08/10/12	12:40 RB	08/14/12	SO	Soil	SB-7(0-2)

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

**Sample Summary**

(continued)

Fleming-Lee Shue, Inc.

**Job No:** JB13726

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

Project No: 10112-002-1

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB13726-14	08/10/12	13:00 RB	08/14/12	SO	Soil	SB-7(12-14)
JB13726-15	08/08/12	13:00 RB	08/14/12	SO	Soil	SB-8(0-2)
JB13726-16	08/08/12	13:10 RB	08/14/12	SO	Soil	SB-8(6-8)
JB13726-17	08/08/12	10:40 RB	08/14/12	SO	Soil	SB-9(0-2)
JB13726-18	08/08/12	10:50 RB	08/14/12	SO	Soil	SB-9(6-8)
JB13726-19	08/08/12	11:50 RB	08/14/12	SO	Soil	SB-10(0-2)
JB13726-20	08/08/12	12:05 RB	08/14/12	SO	Soil	SB-10(6-8)
JB13726-21	08/10/12	14:00 RB	08/14/12	SO	Soil	SB-11 ALT(0-2)
JB13726-22	08/10/12	14:10 RB	08/14/12	SO	Soil	SB-11 ALT(10-12)
JB13726-23	08/13/12	14:00 RB	08/14/12	SO	Soil	SB-12(0-2) ALT
JB13726-24	08/13/12	14:20 RB	08/14/12	SO	Soil	SB-12(10-12) ALT
JB13726-25	08/10/12	15:30 RB	08/14/12	SO	Soil	SB-13(0-2)
JB13726-26	08/10/12	15:35 RB	08/14/12	SO	Soil	SB-13(12-14)

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



### Sample Summary

(continued)

Fleming-Lee Shue, Inc.

**Job No:** JB13726

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

Project No: 10112-002-1

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB13726-27	08/10/12	15:40 RB	08/14/12	SO	Soil	SB-14(0-2)
JB13726-28	08/10/12	15:45 RB	08/14/12	SO	Soil	SB-14(12-14)

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Analyte	Qual	RL	MDL	Units	Method
JB13726-1	SB-1(0-2')						
		Acenaphthene	320	34	9.9	ug/kg	SW846 8270D
		Acenaphthylene	43.5	34	11	ug/kg	SW846 8270D
		Anthracene	877	34	12	ug/kg	SW846 8270D
		Benzo(a)anthracene	1950	34	11	ug/kg	SW846 8270D
		Benzo(a)pyrene	1640	34	10	ug/kg	SW846 8270D
		Benzo(b)fluoranthene	1470	34	11	ug/kg	SW846 8270D
		Benzo(g,h,i)perylene	1040	34	13	ug/kg	SW846 8270D
		Benzo(k)fluoranthene	1180	34	13	ug/kg	SW846 8270D
		Butyl benzyl phthalate	65.7 J	68	20	ug/kg	SW846 8270D
		1,1'-Biphenyl	22.9 J	68	3.9	ug/kg	SW846 8270D
		Carbazole	312	68	16	ug/kg	SW846 8270D
		Chrysene	1980	34	12	ug/kg	SW846 8270D
		Dibenzo(a,h)anthracene	403	34	12	ug/kg	SW846 8270D
		Dibenzofuran	138	68	10	ug/kg	SW846 8270D
		Di-n-butyl phthalate	78.2	68	7.6	ug/kg	SW846 8270D
		Di-n-octyl phthalate	35.2 J	68	17	ug/kg	SW846 8270D
		bis(2-Ethylhexyl)phthalate	321	68	30	ug/kg	SW846 8270D
		Fluoranthene	4860	68	30	ug/kg	SW846 8270D
		Fluorene	301	34	11	ug/kg	SW846 8270D
		Indeno(1,2,3-cd)pyrene	947	34	12	ug/kg	SW846 8270D
		2-Methylnaphthalene	47.7 J	68	19	ug/kg	SW846 8270D
		Naphthalene	60.7	34	9.3	ug/kg	SW846 8270D
		Phenanthrene	4850	68	31	ug/kg	SW846 8270D
		Pyrene	4470	68	26	ug/kg	SW846 8270D
		alpha-Chlordane	6.9	0.80	0.52	ug/kg	SW846 8081B
		gamma-Chlordane	5.0	0.80	0.41	ug/kg	SW846 8081B
		Dieldrin	4.9	0.80	0.62	ug/kg	SW846 8081B
		4,4'-DDD	2.6	0.80	0.41	ug/kg	SW846 8081B
		4,4'-DDE	7.8	0.80	0.47	ug/kg	SW846 8081B
		4,4'-DDT <sup>a</sup>	110	1.6	1.2	ug/kg	SW846 8081B
		Aluminum	8760	60		mg/kg	SW846 6010C
		Arsenic	13.7	2.4		mg/kg	SW846 6010C
		Barium	507	24		mg/kg	SW846 6010C
		Beryllium	0.55	0.24		mg/kg	SW846 6010C
		Cadmium	2.7	0.60		mg/kg	SW846 6010C
		Calcium	4700	600		mg/kg	SW846 6010C
		Chromium	41.0	1.2		mg/kg	SW846 6010C
		Cobalt	6.7	6.0		mg/kg	SW846 6010C
		Copper	164	3.0		mg/kg	SW846 6010C
		Iron	26800	60		mg/kg	SW846 6010C
		Lead	1490	2.4		mg/kg	SW846 6010C
		Magnesium	1980	600		mg/kg	SW846 6010C
		Manganese	310	1.8		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Mercury		2.0	0.20		mg/kg	SW846 7471B
Nickel		25.3	4.8		mg/kg	SW846 6010C
Silver		2.8	0.60		mg/kg	SW846 6010C
Vanadium		52.6	6.0		mg/kg	SW846 6010C
Zinc		693	2.4		mg/kg	SW846 6010C

**JB13726-2 SB-1(6-8')**

Dimethyl phthalate		34.3 J	62	11	ug/kg	SW846 8270D
Aluminum		10700	57		mg/kg	SW846 6010C
Barium		33.7	23		mg/kg	SW846 6010C
Beryllium		0.50	0.23		mg/kg	SW846 6010C
Calcium		878	570		mg/kg	SW846 6010C
Chromium		22.0	1.1		mg/kg	SW846 6010C
Cobalt		9.3	5.7		mg/kg	SW846 6010C
Copper		18.0	2.8		mg/kg	SW846 6010C
Iron		15600	57		mg/kg	SW846 6010C
Lead		6.2	2.3		mg/kg	SW846 6010C
Magnesium		3040	570		mg/kg	SW846 6010C
Manganese		199	1.7		mg/kg	SW846 6010C
Nickel		14.1	4.6		mg/kg	SW846 6010C
Potassium		1400	1100		mg/kg	SW846 6010C
Vanadium		31.1	5.7		mg/kg	SW846 6010C
Zinc		30.1	2.3		mg/kg	SW846 6010C

**JB13726-3 SB-2 ALT(0-2)**

bis(2-Ethylhexyl)phthalate		112	64	28	ug/kg	SW846 8270D
Aluminum		11900	56		mg/kg	SW846 6010C
Arsenic		3.6	2.3		mg/kg	SW846 6010C
Barium		69.5	23		mg/kg	SW846 6010C
Beryllium		0.58	0.23		mg/kg	SW846 6010C
Calcium		1700	560		mg/kg	SW846 6010C
Chromium		20.6	1.1		mg/kg	SW846 6010C
Cobalt		9.0	5.6		mg/kg	SW846 6010C
Copper		15.5	2.8		mg/kg	SW846 6010C
Iron		12500	56		mg/kg	SW846 6010C
Lead		8.4	2.3		mg/kg	SW846 6010C
Magnesium		3300	560		mg/kg	SW846 6010C
Manganese		186	1.7		mg/kg	SW846 6010C
Nickel		15.4	4.5		mg/kg	SW846 6010C
Potassium		1850	1100		mg/kg	SW846 6010C
Vanadium		25.8	5.6		mg/kg	SW846 6010C
Zinc		41.7	2.3		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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### JB13726-4 SB-2 ALT(6-8)

Acetone	15.5	13	2.2	ug/kg	SW846 8260B
Benzene	0.80 J	1.3	0.16	ug/kg	SW846 8260B
Toluene	0.59 J	1.3	0.14	ug/kg	SW846 8260B
bis(2-Ethylhexyl)phthalate	37.8 J	72	32	ug/kg	SW846 8270D
Aluminum	8210	51		mg/kg	SW846 6010C
Barium	40.0	20		mg/kg	SW846 6010C
Beryllium	0.32	0.20		mg/kg	SW846 6010C
Calcium	2360	510		mg/kg	SW846 6010C
Chromium	20.8	1.0		mg/kg	SW846 6010C
Cobalt	7.4	5.1		mg/kg	SW846 6010C
Copper	15.9	2.5		mg/kg	SW846 6010C
Iron	14500	51		mg/kg	SW846 6010C
Lead	3.7	2.0		mg/kg	SW846 6010C
Magnesium	4830	510		mg/kg	SW846 6010C
Manganese	299	1.5		mg/kg	SW846 6010C
Nickel	17.7	4.0		mg/kg	SW846 6010C
Potassium	1610	1000		mg/kg	SW846 6010C
Vanadium	26.7	5.1		mg/kg	SW846 6010C
Zinc	46.7	2.0		mg/kg	SW846 6010C

### JB13726-5 SB-3(0-2)

Tetrachloroethene	18.4	6.5	0.22	ug/kg	SW846 8260B
Toluene	0.49 J	1.3	0.14	ug/kg	SW846 8260B
Acenaphthene	213	31	9.1	ug/kg	SW846 8270D
Acenaphthylene	247	31	10	ug/kg	SW846 8270D
Anthracene	762	31	11	ug/kg	SW846 8270D
Benzo(a)anthracene	2670	31	10	ug/kg	SW846 8270D
Benzo(a)pyrene	2740	31	9.6	ug/kg	SW846 8270D
Benzo(b)fluoranthene	3020	31	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	1430	31	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene	1730	31	12	ug/kg	SW846 8270D
1,1'-Biphenyl	16.1 J	63	3.6	ug/kg	SW846 8270D
Carbazole	288	63	15	ug/kg	SW846 8270D
Chrysene	2700	31	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	685	31	11	ug/kg	SW846 8270D
Dibenzofuran	115	63	9.3	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	32.7 J	63	28	ug/kg	SW846 8270D
Fluoranthene	7400	130	55	ug/kg	SW846 8270D
Fluorene	220	31	10	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	1420	31	11	ug/kg	SW846 8270D
2-Methylnaphthalene	42.7 J	63	18	ug/kg	SW846 8270D
Naphthalene	73.0	31	8.6	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		4520	130	57	ug/kg	SW846 8270D
Pyrene		5810	130	48	ug/kg	SW846 8270D
alpha-Chlordane		5.7	0.73	0.47	ug/kg	SW846 8081B
gamma-Chlordane		3.7	0.73	0.37	ug/kg	SW846 8081B
4,4'-DDD		18.2	0.73	0.37	ug/kg	SW846 8081B
4,4'-DDE		8.7	0.73	0.43	ug/kg	SW846 8081B
4,4'-DDT		85.9	1.5	1.1	ug/kg	SW846 8081B
Aluminum		10800	59		mg/kg	SW846 6010C
Arsenic		6.8	2.4		mg/kg	SW846 6010C
Barium		416	24		mg/kg	SW846 6010C
Beryllium		0.40	0.24		mg/kg	SW846 6010C
Cadmium		1.1	0.59		mg/kg	SW846 6010C
Calcium		10500	590		mg/kg	SW846 6010C
Chromium		24.4	1.2		mg/kg	SW846 6010C
Cobalt		6.9	5.9		mg/kg	SW846 6010C
Copper		58.9	3.0		mg/kg	SW846 6010C
Iron		18100	59		mg/kg	SW846 6010C
Lead		776	2.4		mg/kg	SW846 6010C
Magnesium		3660	590		mg/kg	SW846 6010C
Manganese		248	1.8		mg/kg	SW846 6010C
Mercury		0.62	0.035		mg/kg	SW846 7471B
Nickel		17.4	4.7		mg/kg	SW846 6010C
Potassium		2180	1200		mg/kg	SW846 6010C
Silver		0.59	0.59		mg/kg	SW846 6010C
Vanadium		32.3	5.9		mg/kg	SW846 6010C
Zinc		546	2.4		mg/kg	SW846 6010C

**JB13726-6      SB-3(12-14)**

Acenaphthene		61.2	32	9.2	ug/kg	SW846 8270D
Acenaphthylene		19.6 J	32	10	ug/kg	SW846 8270D
Anthracene		165	32	11	ug/kg	SW846 8270D
Benzo(a)anthracene		449	32	10	ug/kg	SW846 8270D
Benzo(a)pyrene		396	32	9.7	ug/kg	SW846 8270D
Benzo(b)fluoranthene		494	32	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		234	32	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene		237	32	12	ug/kg	SW846 8270D
Carbazole		66.9	64	15	ug/kg	SW846 8270D
Chrysene		448	32	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		84.4	32	11	ug/kg	SW846 8270D
Dibenzofuran		25.9 J	64	9.5	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		477	64	28	ug/kg	SW846 8270D
Fluoranthene		1020	32	14	ug/kg	SW846 8270D
Fluorene		59.0	32	10	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		212	32	11	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2-Methylnaphthalene		61.2 J	64	18	ug/kg	SW846 8270D
Naphthalene		29.9 J	32	8.7	ug/kg	SW846 8270D
Phenanthrene		717	32	15	ug/kg	SW846 8270D
Pyrene		839	32	12	ug/kg	SW846 8270D
4,4'-DDD		0.88	0.72	0.37	ug/kg	SW846 8081B
4,4'-DDT <sup>a</sup>		20.1	0.72	0.53	ug/kg	SW846 8081B
Aluminum		9500	54		mg/kg	SW846 6010C
Antimony		2.4	2.2		mg/kg	SW846 6010C
Arsenic		7.9	2.2		mg/kg	SW846 6010C
Barium		626	22		mg/kg	SW846 6010C
Beryllium		0.40	0.22		mg/kg	SW846 6010C
Cadmium		3.7	0.54		mg/kg	SW846 6010C
Calcium		6670	540		mg/kg	SW846 6010C
Chromium		23.3	1.1		mg/kg	SW846 6010C
Cobalt		5.9	5.4		mg/kg	SW846 6010C
Copper		53.9	2.7		mg/kg	SW846 6010C
Iron		23800	54		mg/kg	SW846 6010C
Lead		2190	2.2		mg/kg	SW846 6010C
Magnesium		2640	540		mg/kg	SW846 6010C
Manganese		215	1.6		mg/kg	SW846 6010C
Mercury		0.42	0.036		mg/kg	SW846 7471B
Nickel		13.9	4.3		mg/kg	SW846 6010C
Potassium		1710	1100		mg/kg	SW846 6010C
Vanadium		25.1	5.4		mg/kg	SW846 6010C
Zinc		658	2.2		mg/kg	SW846 6010C

**JB13726-7      SB-4(0-2)**

bis(2-Ethylhexyl)phthalate		36.2 J	67	30	ug/kg	SW846 8270D
Aluminum		16800	56		mg/kg	SW846 6010C
Arsenic		3.1	2.2		mg/kg	SW846 6010C
Barium		65.5	22		mg/kg	SW846 6010C
Beryllium		0.58	0.22		mg/kg	SW846 6010C
Calcium		1290	560		mg/kg	SW846 6010C
Chromium		40.4	1.1		mg/kg	SW846 6010C
Cobalt		9.6	5.6		mg/kg	SW846 6010C
Copper		20.6	2.8		mg/kg	SW846 6010C
Iron		23500	56		mg/kg	SW846 6010C
Lead		7.2	2.2		mg/kg	SW846 6010C
Magnesium		5250	560		mg/kg	SW846 6010C
Manganese		331	1.7		mg/kg	SW846 6010C
Nickel		21.4	4.5		mg/kg	SW846 6010C
Potassium		1910	1100		mg/kg	SW846 6010C
Vanadium		42.0	5.6		mg/kg	SW846 6010C
Zinc		48.9	2.2		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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### JB13726-8 SB-4(6-8)

Acetone	13.1 J	14	2.3	ug/kg	SW846 8260B
bis(2-Ethylhexyl)phthalate	103	68	30	ug/kg	SW846 8270D
Aluminum	9110	61		mg/kg	SW846 6010C
Barium	51.6	24		mg/kg	SW846 6010C
Beryllium	0.38	0.24		mg/kg	SW846 6010C
Calcium	5840	610		mg/kg	SW846 6010C
Chromium	28.1	1.2		mg/kg	SW846 6010C
Cobalt	7.3	6.1		mg/kg	SW846 6010C
Copper	19.5	3.0		mg/kg	SW846 6010C
Iron	16600	61		mg/kg	SW846 6010C
Lead	16.2	2.4		mg/kg	SW846 6010C
Magnesium	3150	610		mg/kg	SW846 6010C
Manganese	365	1.8		mg/kg	SW846 6010C
Mercury	0.080	0.037		mg/kg	SW846 7471B
Nickel	16.0	4.9		mg/kg	SW846 6010C
Potassium	1350	1200		mg/kg	SW846 6010C
Vanadium	28.5	6.1		mg/kg	SW846 6010C
Zinc	43.3	2.4		mg/kg	SW846 6010C

### JB13726-9 SB-5(0-2)

Toluene	0.44 J	1.1	0.12	ug/kg	SW846 8260B
Trichloroethene	14.5	5.7	0.20	ug/kg	SW846 8260B
Acenaphthene	176	32	9.2	ug/kg	SW846 8270D
Acenaphthylene	31.7 J	32	10	ug/kg	SW846 8270D
Anthracene	404	32	11	ug/kg	SW846 8270D
Benzo(a)anthracene	1140	32	10	ug/kg	SW846 8270D
Benzo(a)pyrene	1030	32	9.6	ug/kg	SW846 8270D
Benzo(b)fluoranthene	1140	32	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	705	32	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene	779	32	12	ug/kg	SW846 8270D
Carbazole	142	63	15	ug/kg	SW846 8270D
Chrysene	1440	32	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	329	32	11	ug/kg	SW846 8270D
Dibenzofuran	74.2	63	9.4	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	35.1 J	63	28	ug/kg	SW846 8270D
Fluoranthene	3030	32	14	ug/kg	SW846 8270D
Fluorene	156	32	10	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	678	32	11	ug/kg	SW846 8270D
2-Methylnaphthalene	30.7 J	63	18	ug/kg	SW846 8270D
Naphthalene	19.6 J	32	8.6	ug/kg	SW846 8270D
Phenanthrene	2500	32	14	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		2450	32	12	ug/kg	SW846 8270D
4,4'-DDT		9.7	0.71	0.52	ug/kg	SW846 8081B
Aluminum		6500	57		mg/kg	SW846 6010C
Arsenic		5.9	2.3		mg/kg	SW846 6010C
Barium		199	23		mg/kg	SW846 6010C
Beryllium		0.25	0.23		mg/kg	SW846 6010C
Cadmium		1.0	0.57		mg/kg	SW846 6010C
Calcium		2140	570		mg/kg	SW846 6010C
Chromium		16.4	1.1		mg/kg	SW846 6010C
Cobalt		6.0	5.7		mg/kg	SW846 6010C
Copper		4100	2.9		mg/kg	SW846 6010C
Iron		23800	57		mg/kg	SW846 6010C
Lead		426	2.3		mg/kg	SW846 6010C
Magnesium		1780	570		mg/kg	SW846 6010C
Manganese		325	1.7		mg/kg	SW846 6010C
Mercury		0.77	0.035		mg/kg	SW846 7471B
Nickel		16.1	4.6		mg/kg	SW846 6010C
Vanadium		22.0	5.7		mg/kg	SW846 6010C
Zinc		445	2.3		mg/kg	SW846 6010C

**JB13726-10 SB-5(10-12)**

Acetone	9.6 J	11	1.9	ug/kg	SW846 8260B
Benzo(a)anthracene	49.1	30	9.8	ug/kg	SW846 8270D
Benzo(a)pyrene	45.3	30	9.2	ug/kg	SW846 8270D
Benzo(b)fluoranthene	46.9	30	10	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	36.9	30	11	ug/kg	SW846 8270D
Benzo(k)fluoranthene	45.8	30	11	ug/kg	SW846 8270D
Chrysene	64.3	30	10	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	16.2 J	30	10	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	88.0	60	27	ug/kg	SW846 8270D
Fluoranthene	131	30	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	34.2	30	10	ug/kg	SW846 8270D
Phenanthrene	68.2	30	14	ug/kg	SW846 8270D
Pyrene	106	30	12	ug/kg	SW846 8270D
Aluminum	7020	54		mg/kg	SW846 6010C
Barium	42.5	22		mg/kg	SW846 6010C
Beryllium	0.32	0.22		mg/kg	SW846 6010C
Calcium	1130	540		mg/kg	SW846 6010C
Chromium	15.2	1.1		mg/kg	SW846 6010C
Copper	14.2	2.7		mg/kg	SW846 6010C
Iron	11600	54		mg/kg	SW846 6010C
Lead	8.3	2.2		mg/kg	SW846 6010C
Magnesium	2270	540		mg/kg	SW846 6010C
Manganese	527	1.6		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Nickel		12.5	4.3		mg/kg	SW846 6010C
Vanadium		18.3	5.4		mg/kg	SW846 6010C
Zinc		29.8	2.2		mg/kg	SW846 6010C

### JB13726-11 SB-6(0-2) ALT

Chloroform		1.5 J	6.0	0.099	ug/kg	SW846 8260B
Methyl Acetate		23.8	6.0	3.1	ug/kg	SW846 8260B
Benzo(a)anthracene		31.7	29	9.5	ug/kg	SW846 8270D
Benzo(a)pyrene		23.8 J	29	8.9	ug/kg	SW846 8270D
Benzo(b)fluoranthene		23.3 J	29	9.8	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		17.9 J	29	11	ug/kg	SW846 8270D
Benzo(k)fluoranthene		21.5 J	29	11	ug/kg	SW846 8270D
Chrysene		30.7	29	9.9	ug/kg	SW846 8270D
Di-n-butyl phthalate		34.4 J	58	6.5	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		59.0	58	26	ug/kg	SW846 8270D
Fluoranthene		70.9	29	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		16.3 J	29	10	ug/kg	SW846 8270D
Phenanthrene		35.7	29	13	ug/kg	SW846 8270D
Pyrene		56.8	29	11	ug/kg	SW846 8270D
4,4'-DDD		6.2	0.67	0.34	ug/kg	SW846 8081B
Aluminum		9860	54		mg/kg	SW846 6010C
Arsenic		3.4	2.1		mg/kg	SW846 6010C
Barium		61.3	21		mg/kg	SW846 6010C
Beryllium		0.76	0.21		mg/kg	SW846 6010C
Calcium		8030	540		mg/kg	SW846 6010C
Chromium		30.5	1.1		mg/kg	SW846 6010C
Cobalt		12.6	5.4		mg/kg	SW846 6010C
Copper		90.5	2.7		mg/kg	SW846 6010C
Iron		21000	54		mg/kg	SW846 6010C
Lead		86.3	2.1		mg/kg	SW846 6010C
Magnesium		3610	540		mg/kg	SW846 6010C
Manganese		362	1.6		mg/kg	SW846 6010C
Mercury		0.034	0.034		mg/kg	SW846 7471B
Nickel		17.9	4.3		mg/kg	SW846 6010C
Potassium		1240	1100		mg/kg	SW846 6010C
Vanadium		29.3	5.4		mg/kg	SW846 6010C
Zinc		554	2.1		mg/kg	SW846 6010C

### JB13726-12 SB-6(12-14) ALT

Chloroform		1.2 J	5.2	0.086	ug/kg	SW846 8260B
Aluminum		4160	51		mg/kg	SW846 6010C
Barium		25.5	20		mg/kg	SW846 6010C
Beryllium		0.24	0.20		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		1400	510		mg/kg	SW846 6010C
		9.6	1.0		mg/kg	SW846 6010C
		11.5	2.5		mg/kg	SW846 6010C
		9960	51		mg/kg	SW846 6010C
		7.9	2.0		mg/kg	SW846 6010C
		1800	510		mg/kg	SW846 6010C
		278	1.5		mg/kg	SW846 6010C
		9.0	4.1		mg/kg	SW846 6010C
		15.4	5.1		mg/kg	SW846 6010C
		20.0	2.0		mg/kg	SW846 6010C

**JB13726-13 SB-7(0-2)**

Benzene	0.75 J	1.2	0.14	ug/kg	SW846 8260B
Toluene	1.5	1.2	0.12	ug/kg	SW846 8260B
m,p-Xylene	0.64 J	1.2	0.20	ug/kg	SW846 8260B
o-Xylene	0.25 J	1.2	0.16	ug/kg	SW846 8260B
Xylene (total)	0.89 J	1.2	0.16	ug/kg	SW846 8260B
Benzo(a)anthracene	38.6	31	10	ug/kg	SW846 8270D
Benzo(a)pyrene	38.8	31	9.3	ug/kg	SW846 8270D
Benzo(b)fluoranthene	39.2	31	10	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	31.5	31	11	ug/kg	SW846 8270D
Benzo(k)fluoranthene	29.0 J	31	11	ug/kg	SW846 8270D
Chrysene	44.2	31	10	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	11.3 J	31	10	ug/kg	SW846 8270D
Fluoranthene	75.4	31	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	25.3 J	31	11	ug/kg	SW846 8270D
Phenanthrene	38.2	31	14	ug/kg	SW846 8270D
Pyrene	64.9	31	12	ug/kg	SW846 8270D
Aluminum	4910	52		mg/kg	SW846 6010C
Arsenic	2.4	2.1		mg/kg	SW846 6010C
Barium	33.8	21		mg/kg	SW846 6010C
Beryllium	0.24	0.21		mg/kg	SW846 6010C
Calcium	1810	520		mg/kg	SW846 6010C
Chromium	11.3	1.0		mg/kg	SW846 6010C
Copper	66.3	2.6		mg/kg	SW846 6010C
Iron	9310	52		mg/kg	SW846 6010C
Lead	90.4	2.1		mg/kg	SW846 6010C
Magnesium	2480	520		mg/kg	SW846 6010C
Manganese	172	1.6		mg/kg	SW846 6010C
Mercury	0.079	0.033		mg/kg	SW846 7471B
Nickel	9.6	4.2		mg/kg	SW846 6010C
Vanadium	15.4	5.2		mg/kg	SW846 6010C
Zinc	55.6	2.1		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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**JB13726-14 SB-7(12-14)**

Acetone	13.2	13	2.2	ug/kg	SW846 8260B
Benzo(a)anthracene	18.6 J	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene	14.1 J	34	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	16.6 J	34	11	ug/kg	SW846 8270D
Benzo(k)fluoranthene	15.1 J	34	13	ug/kg	SW846 8270D
Chrysene	21.5 J	34	12	ug/kg	SW846 8270D
Fluoranthene	50.1	34	15	ug/kg	SW846 8270D
Phenanthrene	22.5 J	34	16	ug/kg	SW846 8270D
Pyrene	38.7	34	13	ug/kg	SW846 8270D
Aluminum	14500	58		mg/kg	SW846 6010C
Arsenic	4.1	2.3		mg/kg	SW846 6010C
Barium	53.4	23		mg/kg	SW846 6010C
Beryllium	0.59	0.23		mg/kg	SW846 6010C
Calcium	2080	580		mg/kg	SW846 6010C
Chromium	16.7	1.2		mg/kg	SW846 6010C
Cobalt	5.9	5.8		mg/kg	SW846 6010C
Copper	18.6	2.9		mg/kg	SW846 6010C
Iron	17500	58		mg/kg	SW846 6010C
Lead	50.4	2.3		mg/kg	SW846 6010C
Magnesium	3020	580		mg/kg	SW846 6010C
Manganese	289	1.7		mg/kg	SW846 6010C
Mercury	0.066	0.037		mg/kg	SW846 7471B
Nickel	11.7	4.6		mg/kg	SW846 6010C
Vanadium	24.9	5.8		mg/kg	SW846 6010C
Zinc	34.7	2.3		mg/kg	SW846 6010C

**JB13726-15 SB-8(0-2)**

Acetone	11.5 J	12	2.0	ug/kg	SW846 8260B
Carbon disulfide	1.3 J	6.0	0.14	ug/kg	SW846 8260B
Toluene	0.82 J	1.2	0.13	ug/kg	SW846 8260B
Acenaphthene	156	32	9.3	ug/kg	SW846 8270D
Acenaphthylene	53.7	32	10	ug/kg	SW846 8270D
Anthracene	452	32	11	ug/kg	SW846 8270D
Benzo(a)anthracene	1070	32	10	ug/kg	SW846 8270D
Benzo(a)pyrene	985	32	9.8	ug/kg	SW846 8270D
Benzo(b)fluoranthene	839	32	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	618	32	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene	742	32	12	ug/kg	SW846 8270D
Carbazole	151	64	15	ug/kg	SW846 8270D
Chrysene	1050	32	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	302	32	11	ug/kg	SW846 8270D
Dibenzofuran	63.1 J	64	9.5	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluoranthene		2330	32	14	ug/kg	SW846 8270D
Fluorene		170	32	11	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		572	32	11	ug/kg	SW846 8270D
2-Methylnaphthalene		33.4 J	64	18	ug/kg	SW846 8270D
Naphthalene		34.3	32	8.8	ug/kg	SW846 8270D
Phenanthrene		1770	32	15	ug/kg	SW846 8270D
Pyrene		1930	32	12	ug/kg	SW846 8270D
4,4'-DDD <sup>b</sup>		2.5	0.73	0.37	ug/kg	SW846 8081B
4,4'-DDT		15.8	0.73	0.53	ug/kg	SW846 8081B
Aluminum		6890	60		mg/kg	SW846 6010C
Arsenic		9.3	2.4		mg/kg	SW846 6010C
Barium		334	24		mg/kg	SW846 6010C
Beryllium		0.73	0.24		mg/kg	SW846 6010C
Cadmium		1.7	0.60		mg/kg	SW846 6010C
Calcium		9620	600		mg/kg	SW846 6010C
Chromium		19.3	1.2		mg/kg	SW846 6010C
Cobalt		8.8	6.0		mg/kg	SW846 6010C
Copper		174	3.0		mg/kg	SW846 6010C
Iron		16500	60		mg/kg	SW846 6010C
Lead		765	2.4		mg/kg	SW846 6010C
Magnesium		2550	600		mg/kg	SW846 6010C
Manganese		249	1.8		mg/kg	SW846 6010C
Mercury		0.43	0.037		mg/kg	SW846 7471B
Nickel		25.2	4.8		mg/kg	SW846 6010C
Potassium		1460	1200		mg/kg	SW846 6010C
Vanadium		24.7	6.0		mg/kg	SW846 6010C
Zinc		781	2.4		mg/kg	SW846 6010C

### JB13726-16 SB-8(6-8)

Acetone		18.3	15	2.5	ug/kg	SW846 8260B
Carbon disulfide		1.4 J	7.4	0.17	ug/kg	SW846 8260B
Toluene		0.75 J	1.5	0.15	ug/kg	SW846 8260B
Acenaphthene		18.4 J	36	10	ug/kg	SW846 8270D
Anthracene		44.2	36	13	ug/kg	SW846 8270D
Benzo(a)anthracene		107	36	12	ug/kg	SW846 8270D
Benzo(a)pyrene		94.7	36	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		79.4	36	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		62.3	36	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		72.4	36	14	ug/kg	SW846 8270D
Carbazole		20.3 J	72	17	ug/kg	SW846 8270D
Chrysene		104	36	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		23.0 J	36	12	ug/kg	SW846 8270D
Fluoranthene		240	36	16	ug/kg	SW846 8270D
Fluorene		17.7 J	36	12	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Indeno(1,2,3-cd)pyrene		56.4	36	13	ug/kg	SW846 8270D
Phenanthrene		188	36	16	ug/kg	SW846 8270D
Pyrene		212	36	14	ug/kg	SW846 8270D
4,4' -DDT <sup>a</sup>		1.2	0.84	0.61	ug/kg	SW846 8081B
Aluminum		10700	60		mg/kg	SW846 6010C
Arsenic		4.4	2.4		mg/kg	SW846 6010C
Barium		107	24		mg/kg	SW846 6010C
Beryllium		0.47	0.24		mg/kg	SW846 6010C
Calcium		3390	600		mg/kg	SW846 6010C
Chromium		24.7	1.2		mg/kg	SW846 6010C
Cobalt		6.8	6.0		mg/kg	SW846 6010C
Copper		51.4	3.0		mg/kg	SW846 6010C
Iron		15300	60		mg/kg	SW846 6010C
Lead		203	2.4		mg/kg	SW846 6010C
Magnesium		2720	600		mg/kg	SW846 6010C
Manganese		168	1.8		mg/kg	SW846 6010C
Mercury		0.73	0.040		mg/kg	SW846 7471B
Nickel		15.1	4.8		mg/kg	SW846 6010C
Potassium		1290	1200		mg/kg	SW846 6010C
Vanadium		27.9	6.0		mg/kg	SW846 6010C
Zinc		119	2.4		mg/kg	SW846 6010C

**JB13726-17 SB-9(0-2)**

Acetone		45.8	14	2.4	ug/kg	SW846 8260B
Carbon disulfide		6.4 J	7.2	0.17	ug/kg	SW846 8260B
Toluene		0.94 J	1.4	0.15	ug/kg	SW846 8260B
m,p-Xylene		0.67 J	1.4	0.25	ug/kg	SW846 8260B
Xylene (total)		0.67 J	1.4	0.20	ug/kg	SW846 8260B
Benzo(a)anthracene		29.7 J	35	11	ug/kg	SW846 8270D
Benzo(a)pyrene		23.3 J	35	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		21.2 J	35	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		16.9 J	35	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		17.7 J	35	13	ug/kg	SW846 8270D
Chrysene		27.5 J	35	12	ug/kg	SW846 8270D
Fluoranthene		61.2	35	15	ug/kg	SW846 8270D
Phenanthrene		39.3	35	16	ug/kg	SW846 8270D
Pyrene		52.2	35	13	ug/kg	SW846 8270D
4,4' -DDT <sup>a</sup>		1.9	0.81	0.59	ug/kg	SW846 8081B
Aluminum		7320	62		mg/kg	SW846 6010C
Arsenic		3.6	2.5		mg/kg	SW846 6010C
Barium		138	25		mg/kg	SW846 6010C
Beryllium		0.46	0.25		mg/kg	SW846 6010C
Calcium		4430	620		mg/kg	SW846 6010C
Chromium		14.0	1.2		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper		24.4	3.1		mg/kg	SW846 6010C
Iron		14200	62		mg/kg	SW846 6010C
Lead		386	2.5		mg/kg	SW846 6010C
Magnesium		1880	620		mg/kg	SW846 6010C
Manganese		269	1.8		mg/kg	SW846 6010C
Mercury		1.4	0.075		mg/kg	SW846 7471B
Nickel		9.9	4.9		mg/kg	SW846 6010C
Vanadium		20.6	6.2		mg/kg	SW846 6010C
Zinc		169	2.5		mg/kg	SW846 6010C

**JB13726-18 SB-9(6-8)**

Acetone		24.7	13	2.3	ug/kg	SW846 8260B
Carbon disulfide		3.7 J	6.7	0.16	ug/kg	SW846 8260B
Toluene		0.92 J	1.3	0.14	ug/kg	SW846 8260B
m,p-Xylene		0.70 J	1.3	0.23	ug/kg	SW846 8260B
Xylene (total)		0.70 J	1.3	0.19	ug/kg	SW846 8260B
Acenaphthene		26.8 J	37	11	ug/kg	SW846 8270D
Anthracene		63.4	37	13	ug/kg	SW846 8270D
Benzo(a)anthracene		155	37	12	ug/kg	SW846 8270D
Benzo(a)pyrene		130	37	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		109	37	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		74.9	37	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene		101	37	14	ug/kg	SW846 8270D
Carbazole		23.9 J	74	17	ug/kg	SW846 8270D
Chrysene		159	37	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		37.3	37	13	ug/kg	SW846 8270D
Fluoranthene		357	37	16	ug/kg	SW846 8270D
Fluorene		28.2 J	37	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		68.9	37	13	ug/kg	SW846 8270D
Phenanthrene		280	37	17	ug/kg	SW846 8270D
Pyrene		298	37	14	ug/kg	SW846 8270D
4,4'-DDT <sup>a</sup>		2.3	0.86	0.63	ug/kg	SW846 8081B
Aluminum		10500	65		mg/kg	SW846 6010C
Arsenic		5.1	2.6		mg/kg	SW846 6010C
Barium		104	26		mg/kg	SW846 6010C
Beryllium		1.5	0.26		mg/kg	SW846 6010C
Calcium		2800	650		mg/kg	SW846 6010C
Chromium		34.1	1.3		mg/kg	SW846 6010C
Cobalt		20.0	6.5		mg/kg	SW846 6010C
Copper		174	3.2		mg/kg	SW846 6010C
Iron		21600	65		mg/kg	SW846 6010C
Lead		239	2.6		mg/kg	SW846 6010C
Magnesium		3010	650		mg/kg	SW846 6010C
Manganese		325	1.9		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Mercury		1.2	0.082		mg/kg	SW846 7471B
Nickel		33.1	5.2		mg/kg	SW846 6010C
Vanadium		28.0	6.5		mg/kg	SW846 6010C
Zinc		1320	2.6		mg/kg	SW846 6010C

**JB13726-19 SB-10(0-2)**

Acetone <sup>c</sup>		70.7	61	10	ug/kg	SW846 8260B
Acenaphthene		2810	35	10	ug/kg	SW846 8270D
Acenaphthylene		17.1 J	35	11	ug/kg	SW846 8270D
Anthracene		626	35	12	ug/kg	SW846 8270D
Benzo(a)anthracene		208	35	11	ug/kg	SW846 8270D
Benzo(a)pyrene		104	35	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		100	35	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		61.5	35	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		93.3	35	13	ug/kg	SW846 8270D
1,1'-Biphenyl		414	70	4.0	ug/kg	SW846 8270D
Carbazole		831	70	16	ug/kg	SW846 8270D
Chrysene		208	35	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		28.7 J	35	12	ug/kg	SW846 8270D
Dibenzofuran		1840	70	10	ug/kg	SW846 8270D
Dimethyl phthalate		47.0 J	70	12	ug/kg	SW846 8270D
Fluoranthene		1440	35	15	ug/kg	SW846 8270D
Fluorene		2300	35	11	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		54.1	35	12	ug/kg	SW846 8270D
2-Methylnaphthalene		2560	70	19	ug/kg	SW846 8270D
Naphthalene		1680	35	9.5	ug/kg	SW846 8270D
Phenanthrene		5190	70	32	ug/kg	SW846 8270D
Pyrene		927	35	13	ug/kg	SW846 8270D
4,4'-DDD <sup>b</sup>		1.3	0.78	0.40	ug/kg	SW846 8081B
4,4'-DDT <sup>a</sup>		11.7	0.78	0.58	ug/kg	SW846 8081B
Aluminum		13500	61		mg/kg	SW846 6010C
Arsenic		4.8	2.4		mg/kg	SW846 6010C
Barium		78.4	24		mg/kg	SW846 6010C
Beryllium		0.51	0.24		mg/kg	SW846 6010C
Calcium		1840	610		mg/kg	SW846 6010C
Chromium		23.5	1.2		mg/kg	SW846 6010C
Copper		27.0	3.0		mg/kg	SW846 6010C
Iron		14700	61		mg/kg	SW846 6010C
Lead		358	2.4		mg/kg	SW846 6010C
Magnesium		3090	610		mg/kg	SW846 6010C
Manganese		138	1.8		mg/kg	SW846 6010C
Mercury		0.56	0.039		mg/kg	SW846 7471B
Nickel		15.3	4.8		mg/kg	SW846 6010C
Potassium		1320	1200		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Vanadium		28.1	6.1		mg/kg	SW846 6010C
Zinc		77.8	2.4		mg/kg	SW846 6010C

**JB13726-20 SB-10(6-8)**

Acetone		39.3	17	2.8	ug/kg	SW846 8260B
Benzene		0.73 J	1.7	0.20	ug/kg	SW846 8260B
Carbon disulfide		3.1 J	8.4	0.20	ug/kg	SW846 8260B
Toluene		1.9	1.7	0.18	ug/kg	SW846 8260B
m,p-Xylene		1.0 J	1.7	0.29	ug/kg	SW846 8260B
Xylene (total)		1.0 J	1.7	0.23	ug/kg	SW846 8260B
Anthracene		24.9 J	43	15	ug/kg	SW846 8270D
Benzo(a)anthracene		89.9	43	14	ug/kg	SW846 8270D
Benzo(a)pyrene		71.8	43	13	ug/kg	SW846 8270D
Benzo(b)fluoranthene		63.1	43	14	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		42.6 J	43	16	ug/kg	SW846 8270D
Benzo(k)fluoranthene		57.7	43	16	ug/kg	SW846 8270D
Chrysene		90.3	43	15	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		21.7 J	43	15	ug/kg	SW846 8270D
Fluoranthene		184	43	19	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		37.6 J	43	15	ug/kg	SW846 8270D
Phenanthrene		113	43	20	ug/kg	SW846 8270D
Pyrene		158	43	16	ug/kg	SW846 8270D
Aluminum		13000	79		mg/kg	SW846 6010C
Arsenic		5.5	3.2		mg/kg	SW846 6010C
Barium		99.8	32		mg/kg	SW846 6010C
Beryllium		0.52	0.32		mg/kg	SW846 6010C
Calcium		4280	790		mg/kg	SW846 6010C
Chromium		24.9	1.6		mg/kg	SW846 6010C
Copper		30.0	4.0		mg/kg	SW846 6010C
Iron		17400	79		mg/kg	SW846 6010C
Lead		203	3.2		mg/kg	SW846 6010C
Magnesium		3030	790		mg/kg	SW846 6010C
Manganese		320	2.4		mg/kg	SW846 6010C
Mercury		1.8	0.097		mg/kg	SW846 7471B
Nickel		15.2	6.3		mg/kg	SW846 6010C
Vanadium		29.1	7.9		mg/kg	SW846 6010C
Zinc		124	3.2		mg/kg	SW846 6010C

**JB13726-21 SB-11 ALT(0-2)**

Methyl Acetate		32.0	6.0	3.1	ug/kg	SW846 8260B
Benzo(a)anthracene		21.1 J	31	10	ug/kg	SW846 8270D
Benzo(a)pyrene		14.6 J	31	9.5	ug/kg	SW846 8270D
Benzo(b)fluoranthene		17.9 J	31	10	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chrysene		17.5 J	31	10	ug/kg	SW846 8270D
Fluoranthene		36.7	31	14	ug/kg	SW846 8270D
Phenanthrene		30.5 J	31	14	ug/kg	SW846 8270D
Pyrene		38.6	31	12	ug/kg	SW846 8270D
Aluminum		6780	54		mg/kg	SW846 6010C
Arsenic		2.2	2.2		mg/kg	SW846 6010C
Barium		44.7	22		mg/kg	SW846 6010C
Beryllium		0.38	0.22		mg/kg	SW846 6010C
Calcium		1240	540		mg/kg	SW846 6010C
Chromium		13.2	1.1		mg/kg	SW846 6010C
Cobalt		5.4	5.4		mg/kg	SW846 6010C
Copper		14.7	2.7		mg/kg	SW846 6010C
Iron		11900	54		mg/kg	SW846 6010C
Lead		32.3	2.2		mg/kg	SW846 6010C
Magnesium		1780	540		mg/kg	SW846 6010C
Manganese		247	1.6		mg/kg	SW846 6010C
Nickel		11.5	4.3		mg/kg	SW846 6010C
Vanadium		19.2	5.4		mg/kg	SW846 6010C
Zinc		33.8	2.2		mg/kg	SW846 6010C

**JB13726-22 SB-11 ALT(10-12)**

Methyl Acetate		17.3	6.8	3.5	ug/kg	SW846 8260B
Acenaphthene		16.3 J	32	9.3	ug/kg	SW846 8270D
Acenaphthylene		20.1 J	32	10	ug/kg	SW846 8270D
Anthracene		49.2	32	11	ug/kg	SW846 8270D
Benzo(a)anthracene		154	32	10	ug/kg	SW846 8270D
Benzo(a)pyrene		138	32	9.7	ug/kg	SW846 8270D
Benzo(b)fluoranthene		160	32	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		105	32	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene		75.0	32	12	ug/kg	SW846 8270D
Butyl benzyl phthalate		89.6	64	18	ug/kg	SW846 8270D
Carbazole		23.8 J	64	15	ug/kg	SW846 8270D
Chrysene		173	32	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		28.9 J	32	11	ug/kg	SW846 8270D
Di-n-butyl phthalate		48.8 J	64	7.1	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		213	64	28	ug/kg	SW846 8270D
Fluoranthene		303	32	14	ug/kg	SW846 8270D
Fluorene		16.5 J	32	10	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		83.2	32	11	ug/kg	SW846 8270D
Phenanthrene		224	32	15	ug/kg	SW846 8270D
Pyrene		321	32	12	ug/kg	SW846 8270D
alpha-Chlordane		11.5	0.76	0.50	ug/kg	SW846 8081B
gamma-Chlordane		13.2	0.76	0.39	ug/kg	SW846 8081B
Dieldrin		2.4	0.76	0.59	ug/kg	SW846 8081B

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4,4' -DDD		6.6	0.76	0.39	ug/kg	SW846 8081B
4,4' -DDE		8.7	0.76	0.45	ug/kg	SW846 8081B
4,4' -DDT		122	3.1	2.2	ug/kg	SW846 8081B
Aluminum		6600	57		mg/kg	SW846 6010C
Arsenic		7.4	2.3		mg/kg	SW846 6010C
Barium		260	23		mg/kg	SW846 6010C
Beryllium		0.39	0.23		mg/kg	SW846 6010C
Cadmium		2.6	0.57		mg/kg	SW846 6010C
Calcium		3980	570		mg/kg	SW846 6010C
Chromium		23.0	1.1		mg/kg	SW846 6010C
Copper		86.7	2.9		mg/kg	SW846 6010C
Iron		13700	57		mg/kg	SW846 6010C
Lead		837	2.3		mg/kg	SW846 6010C
Magnesium		2700	570		mg/kg	SW846 6010C
Manganese		264	1.7		mg/kg	SW846 6010C
Mercury		0.55	0.037		mg/kg	SW846 7471B
Nickel		18.9	4.6		mg/kg	SW846 6010C
Silver		0.90	0.57		mg/kg	SW846 6010C
Vanadium		37.2	5.7		mg/kg	SW846 6010C
Zinc		588	2.3		mg/kg	SW846 6010C

**JB13726-23 SB-12(0-2) ALT**

Acetone		9.6 J	12	2.1	ug/kg	SW846 8260B
Carbon disulfide		1.0 J	6.2	0.15	ug/kg	SW846 8260B
Toluene		0.48 J	1.2	0.13	ug/kg	SW846 8260B
Trichloroethene		1.3 J	6.2	0.22	ug/kg	SW846 8260B
Anthracene		15.3 J	31	11	ug/kg	SW846 8270D
Benzo(a)anthracene		32.5	31	10	ug/kg	SW846 8270D
Benzo(a)pyrene		22.4 J	31	9.5	ug/kg	SW846 8270D
Benzo(b)fluoranthene		22.4 J	31	10	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		13.6 J	31	12	ug/kg	SW846 8270D
Chrysene		28.7 J	31	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		52.3 J	62	28	ug/kg	SW846 8270D
Fluoranthene		67.8	31	14	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		11.8 J	31	11	ug/kg	SW846 8270D
Phenanthrene		69.5	31	14	ug/kg	SW846 8270D
Pyrene		62.4	31	12	ug/kg	SW846 8270D
beta-BHC		1.8	0.72	0.51	ug/kg	SW846 8081B
Aluminum		6070	56		mg/kg	SW846 6010C
Arsenic		3.0	2.2		mg/kg	SW846 6010C
Barium		32.5	22		mg/kg	SW846 6010C
Beryllium		0.37	0.22		mg/kg	SW846 6010C
Calcium		823	560		mg/kg	SW846 6010C
Chromium		16.1	1.1		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726**Account:** Fleming-Lee Shue, Inc.**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
		Copper	14.5	2.8	mg/kg	SW846 6010C
		Iron	11600	56	mg/kg	SW846 6010C
		Lead	16.4	2.2	mg/kg	SW846 6010C
		Magnesium	1510	560	mg/kg	SW846 6010C
		Manganese	245	1.7	mg/kg	SW846 6010C
		Nickel	14.1	4.5	mg/kg	SW846 6010C
		Vanadium	24.2	5.6	mg/kg	SW846 6010C
		Zinc	25.8	2.2	mg/kg	SW846 6010C

**JB13726-24 SB-12(10-12) ALT**

Acetone	11.2 J	13	2.1	ug/kg	SW846 8260B
Anthracene	16.9 J	33	12	ug/kg	SW846 8270D
Benzo(a)anthracene	30.9 J	33	11	ug/kg	SW846 8270D
Benzo(a)pyrene	19.0 J	33	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	19.1 J	33	11	ug/kg	SW846 8270D
Chrysene	24.7 J	33	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	36.4 J	66	29	ug/kg	SW846 8270D
Fluoranthene	55.4	33	15	ug/kg	SW846 8270D
Phenanthrene	53.7	33	15	ug/kg	SW846 8270D
Pyrene	50.3	33	13	ug/kg	SW846 8270D
Aluminum	11200	57		mg/kg	SW846 6010C
Arsenic	3.1	2.3		mg/kg	SW846 6010C
Barium	55.8	23		mg/kg	SW846 6010C
Beryllium	0.57	0.23		mg/kg	SW846 6010C
Calcium	1890	570		mg/kg	SW846 6010C
Chromium	24.1	1.1		mg/kg	SW846 6010C
Cobalt	8.4	5.7		mg/kg	SW846 6010C
Copper	14.7	2.9		mg/kg	SW846 6010C
Iron	19000	57		mg/kg	SW846 6010C
Lead	7.3	2.3		mg/kg	SW846 6010C
Magnesium	3110	570		mg/kg	SW846 6010C
Manganese	425	1.7		mg/kg	SW846 6010C
Mercury	0.28	0.035		mg/kg	SW846 7471B
Nickel	18.6	4.6		mg/kg	SW846 6010C
Potassium	1560	1100		mg/kg	SW846 6010C
Vanadium	32.9	5.7		mg/kg	SW846 6010C
Zinc	35.0	2.3		mg/kg	SW846 6010C

**JB13726-25 SB-13(0-2)**

Benzene	2.5	1.3	0.15	ug/kg	SW846 8260B
Toluene	2.7	1.3	0.13	ug/kg	SW846 8260B
m,p-Xylene	0.56 J	1.3	0.22	ug/kg	SW846 8260B
Xylene (total)	0.56 J	1.3	0.17	ug/kg	SW846 8260B

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthene		576	32	9.2	ug/kg	SW846 8270D
Acenaphthylene		300	32	10	ug/kg	SW846 8270D
Anthracene		1320	32	11	ug/kg	SW846 8270D
Benzo(a)anthracene		2060	32	10	ug/kg	SW846 8270D
Benzo(a)pyrene		1580	32	9.7	ug/kg	SW846 8270D
Benzo(b)fluoranthene		2100	32	11	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		867	32	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene		542	32	12	ug/kg	SW846 8270D
1,1'-Biphenyl		102	64	3.7	ug/kg	SW846 8270D
Carbazole		706	64	15	ug/kg	SW846 8270D
Chrysene		2260	32	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		290	32	11	ug/kg	SW846 8270D
Dibenzofuran		645	64	9.4	ug/kg	SW846 8270D
Di-n-butyl phthalate		35.8 J	64	7.1	ug/kg	SW846 8270D
Fluoranthene		5920	160	70	ug/kg	SW846 8270D
Fluorene		671	32	10	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		820	32	11	ug/kg	SW846 8270D
2-Methylnaphthalene		414	64	18	ug/kg	SW846 8270D
Naphthalene		874	32	8.7	ug/kg	SW846 8270D
Phenanthrene		7150	160	72	ug/kg	SW846 8270D
Pyrene		4710	160	61	ug/kg	SW846 8270D
4,4'-DDT <sup>a</sup>		31.9	0.75	0.55	ug/kg	SW846 8081B
Aluminum		9330	59		mg/kg	SW846 6010C
Arsenic		14.2	2.3		mg/kg	SW846 6010C
Barium		492	23		mg/kg	SW846 6010C
Beryllium		0.66	0.23		mg/kg	SW846 6010C
Cadmium		1.7	0.59		mg/kg	SW846 6010C
Calcium		10600	590		mg/kg	SW846 6010C
Chromium		22.9	1.2		mg/kg	SW846 6010C
Copper		130	2.9		mg/kg	SW846 6010C
Iron		18700	59		mg/kg	SW846 6010C
Lead		847	2.3		mg/kg	SW846 6010C
Magnesium		2950	590		mg/kg	SW846 6010C
Manganese		363	1.8		mg/kg	SW846 6010C
Mercury		0.45	0.035		mg/kg	SW846 7471B
Nickel		16.6	4.7		mg/kg	SW846 6010C
Selenium		2.6	2.3		mg/kg	SW846 6010C
Silver		1.0	0.59		mg/kg	SW846 6010C
Vanadium		28.7	5.9		mg/kg	SW846 6010C
Zinc		697	2.3		mg/kg	SW846 6010C
<b>JB13726-26 SB-13(12-14)</b>						
Benzene		0.44 J	1.4	0.17	ug/kg	SW846 8260B
Toluene		0.58 J	1.4	0.15	ug/kg	SW846 8260B

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method	
		Aluminum	18200	67		mg/kg	SW846 6010C
		Arsenic	3.1	2.7		mg/kg	SW846 6010C
		Barium	154	27		mg/kg	SW846 6010C
		Beryllium	0.88	0.27		mg/kg	SW846 6010C
		Calcium	4540	670		mg/kg	SW846 6010C
		Chromium	42.3	1.3		mg/kg	SW846 6010C
		Cobalt	10.8	6.7		mg/kg	SW846 6010C
		Copper	30.6	3.3		mg/kg	SW846 6010C
		Iron	27600	67		mg/kg	SW846 6010C
		Lead	9.8	2.7		mg/kg	SW846 6010C
		Magnesium	9010	670		mg/kg	SW846 6010C
		Manganese	765	2.0		mg/kg	SW846 6010C
		Nickel	36.1	5.3		mg/kg	SW846 6010C
		Potassium	5550	1300		mg/kg	SW846 6010C
		Vanadium	51.9	6.7		mg/kg	SW846 6010C
		Zinc	80.2	2.7		mg/kg	SW846 6010C

**JB13726-27      SB-14(0-2)**

		Benzene	2.3	1.3	0.15	ug/kg	SW846 8260B
		Toluene	1.8	1.3	0.14	ug/kg	SW846 8260B
		m,p-Xylene	0.37 J	1.3	0.22	ug/kg	SW846 8260B
		Xylene (total)	0.37 J	1.3	0.18	ug/kg	SW846 8260B
		Acenaphthene	394	32	9.4	ug/kg	SW846 8270D
		Acenaphthylene	65.8	32	10	ug/kg	SW846 8270D
		Anthracene	802	32	11	ug/kg	SW846 8270D
		Benzo(a)anthracene	1190	32	11	ug/kg	SW846 8270D
		Benzo(a)pyrene	850	32	9.9	ug/kg	SW846 8270D
		Benzo(b)fluoranthene	977	32	11	ug/kg	SW846 8270D
		Benzo(g,h,i)perylene	457	32	12	ug/kg	SW846 8270D
		Benzo(k)fluoranthene	453	32	12	ug/kg	SW846 8270D
		1,1'-Biphenyl	53.6 J	65	3.8	ug/kg	SW846 8270D
		Carbazole	424	65	15	ug/kg	SW846 8270D
		Chrysene	1110	32	11	ug/kg	SW846 8270D
		Dibenzo(a,h)anthracene	140	32	11	ug/kg	SW846 8270D
		Dibenzofuran	322	65	9.7	ug/kg	SW846 8270D
		Fluoranthene	2970	32	14	ug/kg	SW846 8270D
		Fluorene	434	32	11	ug/kg	SW846 8270D
		Indeno(1,2,3-cd)pyrene	434	32	11	ug/kg	SW846 8270D
		2-Methylnaphthalene	204	65	18	ug/kg	SW846 8270D
		Naphthalene	696	32	8.9	ug/kg	SW846 8270D
		Phenanthrene	3550	65	30	ug/kg	SW846 8270D
		Pyrene	2490	32	12	ug/kg	SW846 8270D
		4,4' -DDE	5.9	0.81	0.48	ug/kg	SW846 8081B
		4,4' -DDT	39.5	0.81	0.59	ug/kg	SW846 8081B

## Summary of Hits

**Job Number:** JB13726  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Endrin aldehyde		13.0	0.81	0.76	ug/kg	SW846 8081B
Aluminum		8740	58		mg/kg	SW846 6010C
Arsenic		16.0	2.3		mg/kg	SW846 6010C
Barium		2790	23		mg/kg	SW846 6010C
Beryllium		0.60	0.23		mg/kg	SW846 6010C
Cadmium		1.4	0.58		mg/kg	SW846 6010C
Calcium		13300	580		mg/kg	SW846 6010C
Chromium		21.7	1.2		mg/kg	SW846 6010C
Copper		107	2.9		mg/kg	SW846 6010C
Iron		15600	58		mg/kg	SW846 6010C
Lead		1310	2.3		mg/kg	SW846 6010C
Magnesium		2030	580		mg/kg	SW846 6010C
Manganese		245	1.7		mg/kg	SW846 6010C
Mercury		1.8	0.19		mg/kg	SW846 7471B
Nickel		14.3	4.6		mg/kg	SW846 6010C
Selenium		3.3	2.3		mg/kg	SW846 6010C
Silver		3.1	0.58		mg/kg	SW846 6010C
Vanadium		26.9	5.8		mg/kg	SW846 6010C
Zinc		1140	2.3		mg/kg	SW846 6010C

**JB13726-28      SB-14(12-14)**

Acetone		10.6 J	14	2.4	ug/kg	SW846 8260B
Benzene		0.52 J	1.4	0.17	ug/kg	SW846 8260B
Benzo(a)anthracene		20.6 J	35	12	ug/kg	SW846 8270D
Benzo(a)pyrene		14.1 J	35	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		17.8 J	35	12	ug/kg	SW846 8270D
Chrysene		16.6 J	35	12	ug/kg	SW846 8270D
Fluoranthene		36.2	35	16	ug/kg	SW846 8270D
Phenanthrene		22.7 J	35	16	ug/kg	SW846 8270D
Pyrene		35.9	35	14	ug/kg	SW846 8270D
Aluminum		15700	63		mg/kg	SW846 6010C
Arsenic		2.6	2.5		mg/kg	SW846 6010C
Barium		76.4	25		mg/kg	SW846 6010C
Beryllium		0.75	0.25		mg/kg	SW846 6010C
Calcium		2190	630		mg/kg	SW846 6010C
Chromium		33.8	1.3		mg/kg	SW846 6010C
Cobalt		8.6	6.3		mg/kg	SW846 6010C
Copper		24.4	3.2		mg/kg	SW846 6010C
Iron		22000	63		mg/kg	SW846 6010C
Lead		10.9	2.5		mg/kg	SW846 6010C
Magnesium		6190	630		mg/kg	SW846 6010C
Manganese		391	1.9		mg/kg	SW846 6010C
Nickel		29.6	5.1		mg/kg	SW846 6010C
Potassium		2370	1300		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB13726

**Account:** Fleming-Lee Shue, Inc.

**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

**Collected:** 08/06/12 thru 08/13/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium		43.9	6.3		mg/kg	SW846 6010C
Zinc		74.1	2.5		mg/kg	SW846 6010C

- (a) Reported from 1st signal. %RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.
- (b) More than 40 % RPD for detected concentrations between the two GC columns.
- (c) Diluted due to high concentration of non-target compound.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> SB-1(0-2')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176425.D	1	08/15/12	SJM	n/a	n/a	VI7124
Run #2							

Run #1	Initial Weight
Run #1	4.7 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.14	ug/kg	
75-25-2	Bromoform	ND	6.4	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.29	ug/kg	
67-66-3	Chloroform	ND	6.4	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	77	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.4	0.55	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-1(0-2')	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-1	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.5
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.4	0.80	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	0.096	ug/kg	
79-20-9	Methyl Acetate	ND	6.4	3.4	ug/kg	
108-87-2	Methylcyclohexane	ND	6.4	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	0.97	ug/kg	
75-09-2	Methylene chloride	ND	6.4	1.6	ug/kg	
100-42-5	Styrene	ND	6.4	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.4	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.19	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-1(0-2')		
<b>Lab Sample ID:</b> JB13726-1		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 82.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15664.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2	2P15679.D	2	08/27/12	ALS	08/16/12	OP59045	E2P712

	Initial Weight	Final Volume
Run #1	35.6 g	1.0 ml
Run #2	35.6 g	1.0 ml

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	42	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	320	34	9.9	ug/kg	
208-96-8	Acenaphthylene	43.5	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	877	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	1950	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	1640	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	1470	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1040	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	1180	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	65.7	68	20	ug/kg	J
92-52-4	1,1'-Biphenyl	22.9	68	3.9	ug/kg	J
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	312	68	16	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-1(0-2')	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-1	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.5
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	1980	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	403	34	12	ug/kg	
132-64-9	Dibenzofuran	138	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	78.2	68	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	35.2	68	17	ug/kg	J
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	321	68	30	ug/kg	
206-44-0	Fluoranthene	4860 <sup>a</sup>	68	30	ug/kg	
86-73-7	Fluorene	301	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	947	34	12	ug/kg	
78-59-1	Isophorone	ND	68	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	47.7	68	19	ug/kg	J
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	60.7	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	4850 <sup>a</sup>	68	31	ug/kg	
129-00-0	Pyrene	4470 <sup>a</sup>	68	26	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	57%	21-116%
4165-62-2	Phenol-d5	55%	61%	19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-1(0-2')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86%	82%	24-136%
4165-60-0	Nitrobenzene-d5	59%	64%	21-122%
321-60-8	2-Fluorobiphenyl	62%	65%	30-117%
1718-51-0	Terphenyl-d14	88%	93%	31-129%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-1(0-2')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67195.D	1	08/21/12	OPM	08/16/12	OP59048	G3G2386
Run #2	3G67261.D	2	08/22/12	OPM	08/16/12	OP59048	G3G2387

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.80	0.40	ug/kg	
319-84-6	alpha-BHC	ND	0.80	0.60	ug/kg	
319-85-7	beta-BHC	ND	0.80	0.56	ug/kg	
319-86-8	delta-BHC	ND	0.80	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.80	0.36	ug/kg	
5103-71-9	alpha-Chlordane	6.9	0.80	0.52	ug/kg	
5103-74-2	gamma-Chlordane	5.0	0.80	0.41	ug/kg	
60-57-1	Dieldrin	4.9	0.80	0.62	ug/kg	
72-54-8	4,4'-DDD	2.6	0.80	0.41	ug/kg	
72-55-9	4,4'-DDE	7.8	0.80	0.47	ug/kg	
50-29-3	4,4'-DDT <sup>a</sup>	110 <sup>b</sup>	1.6	1.2	ug/kg	
72-20-8	Endrin	ND	0.80	0.41	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.80	0.72	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.80	0.76	ug/kg	
959-98-8	Endosulfan-I	ND	0.80	0.39	ug/kg	
33213-65-9	Endosulfan-II	ND	0.80	0.53	ug/kg	
76-44-8	Heptachlor	ND	0.80	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.80	0.39	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.80	0.52	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%	93%	23-137%
877-09-8	Tetrachloro-m-xylene	72%	84%	23-137%
2051-24-3	Decachlorobiphenyl	133%	148%	22-160%
2051-24-3	Decachlorobiphenyl	86%	92%	22-160%

(a) Reported from 1st signal. % RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.

(b) Result is from Run# 2

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



## Report of Analysis

<b>Client Sample ID:</b> SB-1(0-2')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8760	60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	13.7	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	507	24	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.55	0.24	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	2.7	0.60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	4700	600	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	41.0	1.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	6.7	6.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	164	3.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	26800	60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	1490	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	1980	600	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	310	1.8	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	2.0	0.20	mg/kg	5	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	25.3	4.8	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1200	1200	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	2.8	0.60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	52.6	6.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	693	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-1(6-8')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176458.D	1	08/16/12	SJM	n/a	n/a	VI7126
Run #2							

Run #1	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.1	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.13	ug/kg	
75-25-2	Bromoform	ND	6.3	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.29	ug/kg	
67-66-3	Chloroform	ND	6.3	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.3	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.3	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	75	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.33	ug/kg	
76-13-1	Freon 113	ND	6.3	0.54	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-1(6-8')	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-2	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	92.5
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	0.78	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.093	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.94	ug/kg	
75-09-2	Methylene chloride	ND	6.3	1.6	ug/kg	
100-42-5	Styrene	ND	6.3	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.3	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.3	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.3	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.3	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
17060-07-0	1,2-Dichloroethane-D4	98%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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





## Report of Analysis

<b>Client Sample ID:</b> SB-1(6-8')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.5
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	57%		24-136%
4165-60-0	Nitrobenzene-d5	57%		21-122%
321-60-8	2-Fluorobiphenyl	48%		30-117%
1718-51-0	Terphenyl-d14	98%		31-129%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

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3

<b>Client Sample ID:</b> SB-1(6-8')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.5
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67196.D	1	08/21/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

### Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.53	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.46	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.55	ug/kg	
72-54-8	4,4'-DDD	ND	0.71	0.36	ug/kg	
72-55-9	4,4'-DDE	ND	0.71	0.42	ug/kg	
50-29-3	4,4'-DDT	ND	0.71	0.52	ug/kg	
72-20-8	Endrin	ND	0.71	0.36	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.64	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.43	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.35	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.50	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.46	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		23-137%
877-09-8	Tetrachloro-m-xylene	82%		23-137%
2051-24-3	Decachlorobiphenyl	112%		22-160%
2051-24-3	Decachlorobiphenyl	80%		22-160%

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

## Report of Analysis

32  
3

<b>Client Sample ID:</b> SB-1(6-8')		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.5
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70466.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

### PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		22-141%
877-09-8	Tetrachloro-m-xylene	93%		22-141%
2051-24-3	Decachlorobiphenyl	66%		18-163%
2051-24-3	Decachlorobiphenyl	77%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-1(6-8')	
<b>Lab Sample ID:</b> JB13726-2	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
	<b>Percent Solids:</b> 92.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10700	57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	33.7	23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.50	0.23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.57	0.57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	878	570	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	22.0	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	9.3	5.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	18.0	2.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	15600	57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	6.2	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3040	570	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	199	1.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.034	0.034	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	14.1	4.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1400	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.57	0.57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	31.1	5.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	30.1	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-3	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 87.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176470.D	1	08/16/12	SJM	n/a	n/a	VI7126
Run #2							

Run #1	Initial Weight
Run #1	4.6 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.1	ug/kg	
71-43-2	Benzene	ND	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.33	ug/kg	
76-13-1	Freon 113	ND	6.2	0.53	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-2 ALT(0-2)	<b>Date Sampled:</b>	08/07/12
<b>Lab Sample ID:</b>	JB13726-3	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.7
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.77	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.092	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.93	ug/kg	
75-09-2	Methylene chloride	ND	6.2	1.6	ug/kg	
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	ND	1.2	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-3	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 87.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15593.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.5 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	52	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	54	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	640	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	640	39	ug/kg	
95-48-7	2-Methylphenol	ND	64	37	ug/kg	
	3&4-Methylphenol	ND	64	41	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	55	ug/kg	
108-95-2	Phenol	ND	64	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	ND	32	9.3	ug/kg	
208-96-8	Acenaphthylene	ND	32	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.7	ug/kg	
120-12-7	Anthracene	ND	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	32	9.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	64	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	64	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	64	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	64	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	ND	64	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-3	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 87.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	64	10	ug/kg	
218-01-9	Chrysene	ND	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	64	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	64	9.7	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	64	9.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	64	9.7	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	64	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	64	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	32	11	ug/kg	
132-64-9	Dibenzofuran	ND	64	9.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	64	7.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	64	16	ug/kg	
84-66-2	Diethyl phthalate	ND	64	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	64	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	112	64	28	ug/kg	
206-44-0	Fluoranthene	ND	32	14	ug/kg	
86-73-7	Fluorene	ND	32	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	64	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	32	11	ug/kg	
78-59-1	Isophorone	ND	64	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	64	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	ND	32	8.8	ug/kg	
98-95-3	Nitrobenzene	ND	64	9.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	64	7.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	ND	32	15	ug/kg	
129-00-0	Pyrene	ND	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		21-116%
4165-62-2	Phenol-d5	64%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)		<b>Date Sampled:</b> 08/07/12
<b>Lab Sample ID:</b> JB13726-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.7
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

### ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	50%		24-136%
4165-60-0	Nitrobenzene-d5	66%		21-122%
321-60-8	2-Fluorobiphenyl	54%		30-117%
1718-51-0	Terphenyl-d14	77%		31-129%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-3	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 87.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67228.D	1	08/22/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.37	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.55	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.52	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.43	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.74	0.48	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.74	0.38	ug/kg	
60-57-1	Dieldrin	ND	0.74	0.57	ug/kg	
72-54-8	4,4'-DDD	ND	0.74	0.38	ug/kg	
72-55-9	4,4'-DDE	ND	0.74	0.44	ug/kg	
50-29-3	4,4'-DDT	ND	0.74	0.54	ug/kg	
72-20-8	Endrin	ND	0.74	0.38	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.70	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	0.36	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.49	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.45	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	0.37	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.52	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.48	ug/kg	
8001-35-2	Toxaphene	ND	19	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		23-137%
877-09-8	Tetrachloro-m-xylene	80%		23-137%
2051-24-3	Decachlorobiphenyl	92%		22-160%
2051-24-3	Decachlorobiphenyl	91%		22-160%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)		<b>Date Sampled:</b> 08/07/12
<b>Lab Sample ID:</b> JB13726-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.7
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70469.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		22-141%
877-09-8	Tetrachloro-m-xylene	94%		22-141%
2051-24-3	Decachlorobiphenyl	92%		18-163%
2051-24-3	Decachlorobiphenyl	95%		18-163%

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 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

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(0-2)	<b>Date Sampled:</b> 08/07/12
<b>Lab Sample ID:</b> JB13726-3	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	11900	56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	3.6	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	69.5	23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.58	0.23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.56	0.56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1700	560	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	20.6	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	9.0	5.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	15.5	2.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	12500	56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	8.4	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3300	560	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	186	1.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.037	0.037	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	15.4	4.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1850	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.56	0.56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	25.8	5.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	41.7	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(6-8)	
<b>Lab Sample ID:</b> JB13726-4	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 78.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176562.D	1	08/20/12	SJM	n/a	n/a	VI7130
Run #2							

Run #1	Initial Weight
Run #1	4.8 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15.5	13	2.2	ug/kg	
71-43-2	Benzene	0.80	1.3	0.16	ug/kg	J
74-97-5	Bromochloromethane	ND	6.6	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	6.6	0.14	ug/kg	
75-25-2	Bromoform	ND	6.6	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.6	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	6.6	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.6	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.6	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.30	ug/kg	
67-66-3	Chloroform	ND	6.6	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.6	0.25	ug/kg	
110-82-7	Cyclohexane	ND	6.6	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.6	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.6	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.6	0.25	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.6	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.6	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.6	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.6	0.34	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.6	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.6	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.6	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.6	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.6	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	79	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.35	ug/kg	
76-13-1	Freon 113	ND	6.6	0.57	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(6-8)	
<b>Lab Sample ID:</b> JB13726-4	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 78.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.6	0.83	ug/kg	
98-82-8	Isopropylbenzene	ND	6.6	0.099	ug/kg	
79-20-9	Methyl Acetate	ND	6.6	3.5	ug/kg	
108-87-2	Methylcyclohexane	ND	6.6	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.6	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.6	1.7	ug/kg	
100-42-5	Styrene	ND	6.6	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.6	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	6.6	0.23	ug/kg	
108-88-3	Toluene	0.59	1.3	0.14	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.6	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.6	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.6	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.6	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.6	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.6	0.40	ug/kg	
75-01-4	Vinyl chloride	ND	6.6	0.19	ug/kg	
	m,p-Xylene	ND	1.3	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	97%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	105%		66-132%

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

# Report of Analysis

34  
3

<b>Client Sample ID:</b> SB-2 ALT(6-8)	
<b>Lab Sample ID:</b> JB13726-4	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 78.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15594.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.5 g	1.0 ml
Run #2		

### ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	61	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

34  
3

<b>Client Sample ID:</b> SB-2 ALT(6-8)	
<b>Lab Sample ID:</b> JB13726-4	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 78.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	ND	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	180	9.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	17	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	37.8	72	32	ug/kg	J
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	12	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	
129-00-0	Pyrene	ND	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		21-116%
4165-62-2	Phenol-d5	58%		19-117%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

34  
3

<b>Client Sample ID:</b> SB-2 ALT(6-8)		<b>Date Sampled:</b> 08/07/12
<b>Lab Sample ID:</b> JB13726-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 78.5
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	51%		24-136%
4165-60-0	Nitrobenzene-d5	62%		21-122%
321-60-8	2-Fluorobiphenyl	52%		30-117%
1718-51-0	Terphenyl-d14	71%		31-129%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

34  
3

<b>Client Sample ID:</b> SB-2 ALT(6-8)	
<b>Lab Sample ID:</b> JB13726-4	<b>Date Sampled:</b> 08/07/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 78.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67229.D	1	08/22/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.84	0.42	ug/kg	
319-84-6	alpha-BHC	ND	0.84	0.63	ug/kg	
319-85-7	beta-BHC	ND	0.84	0.59	ug/kg	
319-86-8	delta-BHC	ND	0.84	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.84	0.38	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.84	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.84	0.43	ug/kg	
60-57-1	Dieldrin	ND	0.84	0.65	ug/kg	
72-54-8	4,4'-DDD	ND	0.84	0.43	ug/kg	
72-55-9	4,4'-DDE	ND	0.84	0.49	ug/kg	
50-29-3	4,4'-DDT	ND	0.84	0.61	ug/kg	
72-20-8	Endrin	ND	0.84	0.43	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.84	0.76	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.84	0.79	ug/kg	
959-98-8	Endosulfan-I	ND	0.84	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.84	0.55	ug/kg	
76-44-8	Heptachlor	ND	0.84	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.84	0.41	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.59	ug/kg	
53494-70-5	Endrin ketone	ND	0.84	0.54	ug/kg	
8001-35-2	Toxaphene	ND	21	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		23-137%
877-09-8	Tetrachloro-m-xylene	77%		23-137%
2051-24-3	Decachlorobiphenyl	89%		22-160%
2051-24-3	Decachlorobiphenyl	89%		22-160%

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

## Report of Analysis

3.4  
3

<b>Client Sample ID:</b> SB-2 ALT(6-8)		<b>Date Sampled:</b> 08/07/12
<b>Lab Sample ID:</b> JB13726-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 78.5
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70470.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	42	11	ug/kg	
11104-28-2	Aroclor 1221	ND	42	25	ug/kg	
11141-16-5	Aroclor 1232	ND	42	21	ug/kg	
53469-21-9	Aroclor 1242	ND	42	13	ug/kg	
12672-29-6	Aroclor 1248	ND	42	13	ug/kg	
11097-69-1	Aroclor 1254	ND	42	20	ug/kg	
11096-82-5	Aroclor 1260	ND	42	14	ug/kg	
11100-14-4	Aroclor 1268	ND	42	12	ug/kg	
37324-23-5	Aroclor 1262	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		22-141%
877-09-8	Tetrachloro-m-xylene	87%		22-141%
2051-24-3	Decachlorobiphenyl	84%		18-163%
2051-24-3	Decachlorobiphenyl	89%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-2 ALT(6-8)	<b>Date Sampled:</b> 08/07/12
<b>Lab Sample ID:</b> JB13726-4	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8210	51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	< 2.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	40.0	20	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.32	0.20	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.51	0.51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	2360	510	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	20.8	1.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	7.4	5.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	15.9	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	14500	51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	3.7	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	4830	510	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	299	1.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.039	0.039	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	17.7	4.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1610	1000	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.51	0.51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1000	1000	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.0	1.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	26.7	5.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	46.7	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-3(0-2)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.1
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176485.D	1	08/17/12	SJM	n/a	n/a	VI7127
Run #2							

Run #	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.5	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	6.5	0.14	ug/kg	
75-25-2	Bromoform	ND	6.5	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.5	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.5	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.5	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.5	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.5	0.30	ug/kg	
67-66-3	Chloroform	ND	6.5	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.5	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.5	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.5	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.5	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.5	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.5	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.5	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.5	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.5	0.34	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.5	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.5	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.5	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.5	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.5	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	78	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.5	0.56	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-3(0-2)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.1
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.5	0.81	ug/kg	
98-82-8	Isopropylbenzene	ND	6.5	0.097	ug/kg	
79-20-9	Methyl Acetate	ND	6.5	3.4	ug/kg	
108-87-2	Methylcyclohexane	ND	6.5	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.5	0.98	ug/kg	
75-09-2	Methylene chloride	ND	6.5	1.7	ug/kg	
100-42-5	Styrene	ND	6.5	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.5	0.17	ug/kg	
127-18-4	Tetrachloroethene	18.4	6.5	0.22	ug/kg	
108-88-3	Toluene	0.49	1.3	0.14	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.5	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.5	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.5	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.5	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.5	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.5	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	6.5	0.19	ug/kg	
	m,p-Xylene	ND	1.3	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	105%		66-132%

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

## Report of Analysis

3.5  
3

<b>Client Sample ID:</b> SB-3(0-2)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15595.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2	2P15682.D	4	08/27/12	ALS	08/16/12	OP59045	E2P712

Run #	Initial Weight	Final Volume
Run #1	35.7 g	1.0 ml
Run #2	35.7 g	1.0 ml

**ABN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	630	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	630	38	ug/kg	
95-48-7	2-Methylphenol	ND	63	36	ug/kg	
	3&4-Methylphenol	ND	63	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	53	ug/kg	
87-86-5	Pentachlorophenol	ND	310	54	ug/kg	
108-95-2	Phenol	ND	63	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	213	31	9.1	ug/kg	
208-96-8	Acenaphthylene	247	31	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.5	ug/kg	
120-12-7	Anthracene	762	31	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.2	ug/kg	
56-55-3	Benzo(a)anthracene	2670	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	2740	31	9.6	ug/kg	
205-99-2	Benzo(b)fluoranthene	3020	31	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1430	31	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	1730	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	63	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	63	18	ug/kg	
92-52-4	1,1'-Biphenyl	16.1	63	3.6	ug/kg	J
100-52-7	Benzaldehyde	ND	160	7.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	63	9.7	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	288	63	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-3(0-2)	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-5	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.1
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	63	9.9	ug/kg	
218-01-9	Chrysene	2700	31	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	63	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	63	9.5	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	63	9.3	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	63	9.5	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	63	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	63	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	685	31	11	ug/kg	
132-64-9	Dibenzofuran	115	63	9.3	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	63	7.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	63	15	ug/kg	
84-66-2	Diethyl phthalate	ND	63	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	63	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	32.7	63	28	ug/kg	J
206-44-0	Fluoranthene	7400 <sup>a</sup>	130	55	ug/kg	
86-73-7	Fluorene	220	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	63	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.7	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1420	31	11	ug/kg	
78-59-1	Isophorone	ND	63	8.5	ug/kg	
91-57-6	2-Methylnaphthalene	42.7	63	18	ug/kg	J
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	73.0	31	8.6	ug/kg	
98-95-3	Nitrobenzene	ND	63	9.1	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	63	7.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	4520 <sup>a</sup>	130	57	ug/kg	
129-00-0	Pyrene	5810 <sup>a</sup>	130	48	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%	68%	21-116%
4165-62-2	Phenol-d5	55%	73%	19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-3(0-2)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73%	102%	24-136%
4165-60-0	Nitrobenzene-d5	65%	76%	21-122%
321-60-8	2-Fluorobiphenyl	67%	87%	30-117%
1718-51-0	Terphenyl-d14	87%	119%	31-129%

(a) Result is from Run# 2

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



## Report of Analysis

3.5  
3

<b>Client Sample ID:</b> SB-3(0-2)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.1
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70471.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	12	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		22-141%
877-09-8	Tetrachloro-m-xylene	76%		22-141%
2051-24-3	Decachlorobiphenyl	129%		18-163%
2051-24-3	Decachlorobiphenyl	506% <sup>a</sup>		18-163%

(a) Outside control limits due to matrix interference.

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ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> SB-3(0-2)	
<b>Lab Sample ID:</b> JB13726-5	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
	<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10800	59	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	6.8	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	416	24	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.40	0.24	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	1.1	0.59	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	10500	590	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	24.4	1.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	6.9	5.9	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	58.9	3.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	18100	59	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	776	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3660	590	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	248	1.8	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.62	0.035	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	17.4	4.7	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	2180	1200	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	0.59	0.59	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	32.3	5.9	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	546	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA29258
- (2) Instrument QC Batch: MA29270
- (3) Prep QC Batch: MP66215
- (4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-3(12-14)	
<b>Lab Sample ID:</b> JB13726-6	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176486.D	1	08/17/12	SJM	n/a	n/a	VI7127
Run #2							

Run #1	Initial Weight
Run #1	4.4 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.13	ug/kg	
75-25-2	Bromoform	ND	6.4	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.29	ug/kg	
67-66-3	Chloroform	ND	6.4	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	76	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.4	0.55	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-3(12-14)	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-6	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.1
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.4	0.79	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	0.095	ug/kg	
79-20-9	Methyl Acetate	ND	6.4	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.4	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	0.96	ug/kg	
75-09-2	Methylene chloride	ND	6.4	1.6	ug/kg	
100-42-5	Styrene	ND	6.4	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.4	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-3(12-14)		
<b>Lab Sample ID:</b> JB13726-6		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15596.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	54	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	640	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	640	39	ug/kg	
95-48-7	2-Methylphenol	ND	64	36	ug/kg	
	3&4-Methylphenol	ND	64	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	55	ug/kg	
108-95-2	Phenol	ND	64	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	61.2	32	9.2	ug/kg	
208-96-8	Acenaphthylene	19.6	32	10	ug/kg	J
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	165	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	449	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	396	32	9.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	494	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	234	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	237	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	64	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	64	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	64	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	64	9.9	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	66.9	64	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-3(12-14)	
<b>Lab Sample ID:</b> JB13726-6	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	64	10	ug/kg	
218-01-9	Chrysene	448	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	64	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	64	9.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	64	9.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	64	9.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	64	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	64	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	84.4	32	11	ug/kg	
132-64-9	Dibenzofuran	25.9	64	9.5	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	64	7.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	64	16	ug/kg	
84-66-2	Diethyl phthalate	ND	64	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	64	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	477	64	28	ug/kg	
206-44-0	Fluoranthene	1020	32	14	ug/kg	
86-73-7	Fluorene	59.0	32	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	64	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	212	32	11	ug/kg	
78-59-1	Isophorone	ND	64	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	61.2	64	18	ug/kg	J
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	29.9	32	8.7	ug/kg	J
98-95-3	Nitrobenzene	ND	64	9.2	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	64	7.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	717	32	15	ug/kg	
129-00-0	Pyrene	839	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		21-116%
4165-62-2	Phenol-d5	68%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-3(12-14)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-6		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75%		24-136%
4165-60-0	Nitrobenzene-d5	71%		21-122%
321-60-8	2-Fluorobiphenyl	68%		30-117%
1718-51-0	Terphenyl-d14	92%		31-129%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

3.6  
3

<b>Client Sample ID:</b> SB-3(12-14)	
<b>Lab Sample ID:</b> JB13726-6	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67428.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.72	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.51	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.72	0.47	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.72	0.37	ug/kg	
60-57-1	Dieldrin	ND	0.72	0.56	ug/kg	
72-54-8	4,4'-DDD	0.88	0.72	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.72	0.43	ug/kg	
50-29-3	4,4'-DDT <sup>a</sup>	20.1	0.72	0.53	ug/kg	
72-20-8	Endrin	ND	0.72	0.37	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.66	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.69	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.35	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.48	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.44	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.36	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.51	ug/kg	
53494-70-5	Endrin ketone	ND	0.72	0.47	ug/kg	
8001-35-2	Toxaphene	ND	18	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		23-137%
877-09-8	Tetrachloro-m-xylene	73%		23-137%
2051-24-3	Decachlorobiphenyl	118%		22-160%
2051-24-3	Decachlorobiphenyl	75%		22-160%

(a) Reported from 1st signal. % RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3(12-14)	
<b>Lab Sample ID:</b> JB13726-6	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70472.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	12	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		22-141%
877-09-8	Tetrachloro-m-xylene	72%		22-141%
2051-24-3	Decachlorobiphenyl	78%		18-163%
2051-24-3	Decachlorobiphenyl	56%		18-163%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> SB-3(12-14)	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-6	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 89.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9500	54	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	2.4	2.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	7.9	2.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	626	22	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.40	0.22	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	3.7	0.54	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	6670	540	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	23.3	1.1	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	5.9	5.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	53.9	2.7	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	23800	54	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	2190	2.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	2640	540	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	215	1.6	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.42	0.036	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	13.9	4.3	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1710	1100	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.2	2.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.54	0.54	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	25.1	5.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	658	2.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA29258
- (2) Instrument QC Batch: MA29270
- (3) Prep QC Batch: MP66215
- (4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-4(0-2)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176489.D	1	08/17/12	SJM	n/a	n/a	VI7127
Run #2							

Run #1	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.3	ug/kg	
71-43-2	Benzene	ND	1.4	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.8	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	6.8	0.14	ug/kg	
75-25-2	Bromoform	ND	6.8	0.21	ug/kg	
74-83-9	Bromomethane	ND	6.8	0.37	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.8	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.8	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.8	0.15	ug/kg	
75-00-3	Chloroethane	ND	6.8	0.31	ug/kg	
67-66-3	Chloroform	ND	6.8	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.8	0.25	ug/kg	
110-82-7	Cyclohexane	ND	6.8	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.8	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.8	0.26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.8	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.8	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.8	0.31	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.8	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.8	0.35	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.8	0.25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.8	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.8	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.8	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.8	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	81	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.36	ug/kg	
76-13-1	Freon 113	ND	6.8	0.59	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-4(0-2)	<b>Date Sampled:</b>	08/06/12
<b>Lab Sample ID:</b>	JB13726-7	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	84.9
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.8	0.85	ug/kg	
98-82-8	Isopropylbenzene	ND	6.8	0.10	ug/kg	
79-20-9	Methyl Acetate	ND	6.8	3.6	ug/kg	
108-87-2	Methylcyclohexane	ND	6.8	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.8	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.8	1.7	ug/kg	
100-42-5	Styrene	ND	6.8	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.8	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	6.8	0.24	ug/kg	
108-88-3	Toluene	ND	1.4	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.8	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.8	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.8	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.8	0.24	ug/kg	
79-01-6	Trichloroethene	ND	6.8	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.8	0.41	ug/kg	
75-01-4	Vinyl chloride	ND	6.8	0.20	ug/kg	
	m,p-Xylene	ND	1.4	0.24	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-4(0-2)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15597.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

**ABN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	57	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.7	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	16	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-4(0-2)	<b>Date Sampled:</b>	08/06/12
<b>Lab Sample ID:</b>	JB13726-7	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	84.9
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	11	ug/kg	
218-01-9	Chrysene	ND	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	36.2	67	30	ug/kg	J
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.3	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	67	9.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.2	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	34	15	ug/kg	
129-00-0	Pyrene	ND	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		21-116%
4165-62-2	Phenol-d5	43%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-4(0-2)	
<b>Lab Sample ID:</b> JB13726-7	<b>Date Sampled:</b> 08/06/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 84.9
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	41%		24-136%
4165-60-0	Nitrobenzene-d5	45%		21-122%
321-60-8	2-Fluorobiphenyl	38%		30-117%
1718-51-0	Terphenyl-d14	78%		31-129%

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

## Report of Analysis

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3

<b>Client Sample ID:</b> SB-4(0-2)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67230.D	1	08/22/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

### Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.76	0.38	ug/kg	
319-84-6	alpha-BHC	ND	0.76	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.76	0.53	ug/kg	
319-86-8	delta-BHC	ND	0.76	0.44	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.76	0.35	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.76	0.49	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.76	0.39	ug/kg	
60-57-1	Dieldrin	ND	0.76	0.59	ug/kg	
72-54-8	4,4'-DDD	ND	0.76	0.39	ug/kg	
72-55-9	4,4'-DDE	ND	0.76	0.45	ug/kg	
50-29-3	4,4'-DDT	ND	0.76	0.56	ug/kg	
72-20-8	Endrin	ND	0.76	0.39	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.76	0.69	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.76	0.72	ug/kg	
959-98-8	Endosulfan-I	ND	0.76	0.37	ug/kg	
33213-65-9	Endosulfan-II	ND	0.76	0.50	ug/kg	
76-44-8	Heptachlor	ND	0.76	0.47	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.76	0.37	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.54	ug/kg	
53494-70-5	Endrin ketone	ND	0.76	0.49	ug/kg	
8001-35-2	Toxaphene	ND	19	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		23-137%
877-09-8	Tetrachloro-m-xylene	101%		23-137%
2051-24-3	Decachlorobiphenyl	115%		22-160%
2051-24-3	Decachlorobiphenyl	117%		22-160%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

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3

<b>Client Sample ID:</b> SB-4(0-2)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70473.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	11	ug/kg	
37324-23-5	Aroclor 1262	ND	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		22-141%
877-09-8	Tetrachloro-m-xylene	93%		22-141%
2051-24-3	Decachlorobiphenyl	62%		18-163%
2051-24-3	Decachlorobiphenyl	71%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-4(0-2)	<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-7	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	16800	56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.2	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	3.1	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	65.5	22	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.58	0.22	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.56	0.56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1290	560	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	40.4	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	9.6	5.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	20.6	2.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	23500	56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	7.2	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	5250	560	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	331	1.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.039	0.039	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	21.4	4.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1910	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.2	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.56	0.56	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	42.0	5.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	48.9	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-4(6-8)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176490.D	1	08/17/12	SJM	n/a	n/a	VI7127
Run #2							

Run #	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.1	14	2.3	ug/kg	J
71-43-2	Benzene	ND	1.4	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.9	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	6.9	0.15	ug/kg	
75-25-2	Bromoform	ND	6.9	0.21	ug/kg	
74-83-9	Bromomethane	ND	6.9	0.38	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.9	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	0.15	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.31	ug/kg	
67-66-3	Chloroform	ND	6.9	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.9	0.26	ug/kg	
110-82-7	Cyclohexane	ND	6.9	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.9	0.26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.9	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.9	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.9	0.32	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.9	0.36	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.9	0.25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.9	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.9	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.9	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.9	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	82	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.36	ug/kg	
76-13-1	Freon 113	ND	6.9	0.60	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-4(6-8)	<b>Date Sampled:</b>	08/06/12
<b>Lab Sample ID:</b>	JB13726-8	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	83.9
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.9	0.86	ug/kg	
98-82-8	Isopropylbenzene	ND	6.9	0.10	ug/kg	
79-20-9	Methyl Acetate	ND	6.9	3.6	ug/kg	
108-87-2	Methylcyclohexane	ND	6.9	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.33	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.9	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.9	1.8	ug/kg	
100-42-5	Styrene	ND	6.9	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	6.9	0.24	ug/kg	
108-88-3	Toluene	ND	1.4	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.9	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.9	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.9	0.24	ug/kg	
79-01-6	Trichloroethene	ND	6.9	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.9	0.41	ug/kg	
75-01-4	Vinyl chloride	ND	6.9	0.20	ug/kg	
	m,p-Xylene	ND	1.4	0.24	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-4(6-8)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15598.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	41	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.8	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-4(6-8)	<b>Date Sampled:</b>	08/06/12
<b>Lab Sample ID:</b>	JB13726-8	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	83.9
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	ND	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	17	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	103	68	30	ug/kg	
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	68	9.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	34	15	ug/kg	
129-00-0	Pyrene	ND	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		21-116%
4165-62-2	Phenol-d5	54%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-4(6-8)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	47%		24-136%
4165-60-0	Nitrobenzene-d5	58%		21-122%
321-60-8	2-Fluorobiphenyl	50%		30-117%
1718-51-0	Terphenyl-d14	83%		31-129%

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 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

# Report of Analysis

<b>Client Sample ID:</b> SB-4(6-8)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.9
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67231.D	1	08/22/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.39	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.59	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.55	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.46	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.79	0.51	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.79	0.40	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.61	ug/kg	
72-54-8	4,4'-DDD	ND	0.79	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.79	0.47	ug/kg	
50-29-3	4,4'-DDT	ND	0.79	0.58	ug/kg	
72-20-8	Endrin	ND	0.79	0.40	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.71	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.75	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.52	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.48	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.39	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.51	ug/kg	
8001-35-2	Toxaphene	ND	20	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		23-137%
877-09-8	Tetrachloro-m-xylene	85%		23-137%
2051-24-3	Decachlorobiphenyl	95%		22-160%
2051-24-3	Decachlorobiphenyl	99%		22-160%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
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J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.8  
3

<b>Client Sample ID:</b> SB-4(6-8)		<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.9
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70474.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	9.9	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	12	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		22-141%
877-09-8	Tetrachloro-m-xylene	94%		22-141%
2051-24-3	Decachlorobiphenyl	86%		18-163%
2051-24-3	Decachlorobiphenyl	87%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4(6-8)	<b>Date Sampled:</b> 08/06/12
<b>Lab Sample ID:</b> JB13726-8	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.9
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9110	61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	51.6	24	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.38	0.24	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.61	0.61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	5840	610	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	28.1	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	7.3	6.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	19.5	3.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	16600	61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	16.2	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3150	610	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	365	1.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.080	0.037	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	16.0	4.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1350	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.61	0.61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	28.5	6.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	43.3	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-5(0-2)		
<b>Lab Sample ID:</b> JB13726-9		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 89.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176491.D	1	08/17/12	SJM	n/a	n/a	VI7127
Run #2							

Run #1	Initial Weight
Run #1	4.9 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	1.9	ug/kg	
71-43-2	Benzene	ND	1.1	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.7	0.12	ug/kg	
75-25-2	Bromoform	ND	5.7	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.31	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.7	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.7	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.26	ug/kg	
67-66-3	Chloroform	ND	5.7	0.094	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.7	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.7	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.7	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.7	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.7	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.7	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.7	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.7	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.7	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.7	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	140	68	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.30	ug/kg	
76-13-1	Freon 113	ND	5.7	0.49	ug/kg	

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

## Report of Analysis

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3

<b>Client Sample ID:</b> SB-5(0-2)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.7	0.71	ug/kg	
98-82-8	Isopropylbenzene	ND	5.7	0.085	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.7	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.86	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.4	ug/kg	
100-42-5	Styrene	ND	5.7	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.7	0.20	ug/kg	
108-88-3	Toluene	0.44	1.1	0.12	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.7	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.7	0.20	ug/kg	
79-01-6	Trichloroethene	14.5	5.7	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	105%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-5(0-2)		
<b>Lab Sample ID:</b> JB13726-9		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 89.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15665.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	630	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	630	39	ug/kg	
95-48-7	2-Methylphenol	ND	63	36	ug/kg	
	3&4-Methylphenol	ND	63	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	33	ug/kg	
100-02-7	4-Nitrophenol	ND	320	53	ug/kg	
87-86-5	Pentachlorophenol	ND	320	54	ug/kg	
108-95-2	Phenol	ND	63	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	176	32	9.2	ug/kg	
208-96-8	Acenaphthylene	31.7	32	10	ug/kg	J
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	404	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.2	ug/kg	
56-55-3	Benzo(a)anthracene	1140	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	1030	32	9.6	ug/kg	
205-99-2	Benzo(b)fluoranthene	1140	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	705	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	779	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	63	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	63	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	63	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	63	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	142	63	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-5(0-2)	
<b>Lab Sample ID:</b> JB13726-9	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 89.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	63	9.9	ug/kg	
218-01-9	Chrysene	1440	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	63	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	63	9.5	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	63	9.4	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	63	9.5	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	63	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	63	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	329	32	11	ug/kg	
132-64-9	Dibenzofuran	74.2	63	9.4	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	63	7.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	63	15	ug/kg	
84-66-2	Diethyl phthalate	ND	63	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	63	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	35.1	63	28	ug/kg	J
206-44-0	Fluoranthene	3030	32	14	ug/kg	
86-73-7	Fluorene	156	32	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	63	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	678	32	11	ug/kg	
78-59-1	Isophorone	ND	63	8.5	ug/kg	
91-57-6	2-Methylnaphthalene	30.7	63	18	ug/kg	J
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	19.6	32	8.6	ug/kg	J
98-95-3	Nitrobenzene	ND	63	9.1	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	63	7.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	2500	32	14	ug/kg	
129-00-0	Pyrene	2450	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		21-116%
4165-62-2	Phenol-d5	45%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-5(0-2)	
<b>Lab Sample ID:</b> JB13726-9	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 89.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	53%		24-136%
4165-60-0	Nitrobenzene-d5	50%		21-122%
321-60-8	2-Fluorobiphenyl	49%		30-117%
1718-51-0	Terphenyl-d14	52%		31-129%

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



## Report of Analysis

3.9  
3

<b>Client Sample ID:</b> SB-5(0-2)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.5
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70475.D	1	08/20/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		22-141%
877-09-8	Tetrachloro-m-xylene	72%		22-141%
2051-24-3	Decachlorobiphenyl	70%		18-163%
2051-24-3	Decachlorobiphenyl	66%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5(0-2)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-9	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 89.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6500	57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	5.9	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	199	23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.25	0.23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	1.0	0.57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	2140	570	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	16.4	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	6.0	5.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	4100	2.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	23800	57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	426	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	1780	570	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	325	1.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.77	0.035	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	16.1	4.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.57	0.57	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	22.0	5.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	445	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-5(10-12)		
<b>Lab Sample ID:</b> JB13726-10		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 94.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176492.D	1	08/17/12	SJM	n/a	n/a	VI7127
Run #2							

Run #1	Initial Weight
Run #1	4.7 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.6	11	1.9	ug/kg	J
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	0.12	ug/kg	
75-25-2	Bromoform	ND	5.6	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.31	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.26	ug/kg	
67-66-3	Chloroform	ND	5.6	0.093	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.6	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.6	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.17	ug/kg	
123-91-1	1,4-Dioxane	ND	140	67	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.30	ug/kg	
76-13-1	Freon 113	ND	5.6	0.48	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-5(10-12)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-10	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.6
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.6	0.70	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	0.084	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.9	ug/kg	
108-87-2	Methylcyclohexane	ND	5.6	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	0.84	ug/kg	
75-09-2	Methylene chloride	ND	5.6	1.4	ug/kg	
100-42-5	Styrene	ND	5.6	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	0.19	ug/kg	
108-88-3	Toluene	ND	1.1	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.6	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
17060-07-0	1,2-Dichloroethane-D4	97%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

### Report of Analysis

<b>Client Sample ID:</b> SB-5(10-12)		
<b>Lab Sample ID:</b> JB13726-10		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 94.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15654.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

**ABN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	49	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	51	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	600	37	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	600	37	ug/kg	
95-48-7	2-Methylphenol	ND	60	34	ug/kg	
	3&4-Methylphenol	ND	60	38	ug/kg	
88-75-5	2-Nitrophenol	ND	150	32	ug/kg	
100-02-7	4-Nitrophenol	ND	300	51	ug/kg	
87-86-5	Pentachlorophenol	ND	300	52	ug/kg	
108-95-2	Phenol	ND	60	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	31	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	35	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	28	ug/kg	
83-32-9	Acenaphthene	ND	30	8.8	ug/kg	
208-96-8	Acenaphthylene	ND	30	9.7	ug/kg	
98-86-2	Acetophenone	ND	150	5.3	ug/kg	
120-12-7	Anthracene	ND	30	11	ug/kg	
1912-24-9	Atrazine	ND	150	5.9	ug/kg	
56-55-3	Benzo(a)anthracene	49.1	30	9.8	ug/kg	
50-32-8	Benzo(a)pyrene	45.3	30	9.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	46.9	30	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	36.9	30	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	45.8	30	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	60	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	60	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	60	3.5	ug/kg	
100-52-7	Benzaldehyde	ND	150	6.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	60	9.4	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.7	ug/kg	
86-74-8	Carbazole	ND	60	14	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-5(10-12)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-10	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.6
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	60	9.5	ug/kg	
218-01-9	Chrysene	64.3	30	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	60	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	60	9.1	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	60	9.0	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	60	9.1	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	60	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	60	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	150	7.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16.2	30	10	ug/kg	J
132-64-9	Dibenzofuran	ND	60	9.0	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	60	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	60	15	ug/kg	
84-66-2	Diethyl phthalate	ND	60	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	60	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	88.0	60	27	ug/kg	
206-44-0	Fluoranthene	131	30	13	ug/kg	
86-73-7	Fluorene	ND	30	9.9	ug/kg	
118-74-1	Hexachlorobenzene	ND	60	9.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	30	8.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	300	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	34.2	30	10	ug/kg	
78-59-1	Isophorone	ND	60	8.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	60	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	30	8.2	ug/kg	
98-95-3	Nitrobenzene	ND	60	8.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	60	7.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	68.2	30	14	ug/kg	
129-00-0	Pyrene	106	30	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		21-116%
4165-62-2	Phenol-d5	47%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-5(10-12)	
<b>Lab Sample ID:</b> JB13726-10	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 94.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	55%		24-136%
4165-60-0	Nitrobenzene-d5	50%		21-122%
321-60-8	2-Fluorobiphenyl	53%		30-117%
1718-51-0	Terphenyl-d14	62%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-5(10-12)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-10	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.6
<b>Method:</b>	SW846 8081B SW846 3546		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67232.D	1	08/22/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.51	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.48	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.40	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.31	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.44	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.35	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.53	ug/kg	
72-54-8	4,4'-DDD	ND	0.68	0.35	ug/kg	
72-55-9	4,4'-DDE	ND	0.68	0.40	ug/kg	
50-29-3	4,4'-DDT	ND	0.68	0.50	ug/kg	
72-20-8	Endrin	ND	0.68	0.35	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.65	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.33	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.42	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.34	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.48	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.44	ug/kg	
8001-35-2	Toxaphene	ND	17	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		23-137%
877-09-8	Tetrachloro-m-xylene	82%		23-137%
2051-24-3	Decachlorobiphenyl	106%		22-160%
2051-24-3	Decachlorobiphenyl	99%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-5(10-12)	
<b>Lab Sample ID:</b> JB13726-10	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 94.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70480.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		22-141%
877-09-8	Tetrachloro-m-xylene	94%		22-141%
2051-24-3	Decachlorobiphenyl	84%		18-163%
2051-24-3	Decachlorobiphenyl	81%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-5(10-12)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-10	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7020	54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.2	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	< 2.2	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	42.5	22	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.32	0.22	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.54	0.54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1130	540	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	15.2	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 5.4	5.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	14.2	2.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	11600	54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	8.3	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	2270	540	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	527	1.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.034	0.034	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	12.5	4.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.2	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.54	0.54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	18.3	5.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	29.8	2.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-6(0-2) ALT	
<b>Lab Sample ID:</b> JB13726-11	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 96.9
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176505.D	1	08/17/12	SJM	n/a	n/a	VI7128
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	0.13	ug/kg	
75-25-2	Bromoform	ND	6.0	0.18	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.33	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.27	ug/kg	
67-66-3	Chloroform	1.5	6.0	0.099	ug/kg	J
74-87-3	Chloromethane	ND	6.0	0.22	ug/kg	
110-82-7	Cyclohexane	ND	6.0	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.0	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.0	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.0	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	0.31	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	0.22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	71	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.32	ug/kg	
76-13-1	Freon 113	ND	6.0	0.52	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-11	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.9
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.0	0.75	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	0.089	ug/kg	
79-20-9	Methyl Acetate	23.8	6.0	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	6.0	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	0.90	ug/kg	
75-09-2	Methylene chloride	ND	6.0	1.5	ug/kg	
100-42-5	Styrene	ND	6.0	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.0	0.21	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	0.21	ug/kg	
79-01-6	Trichloroethene	ND	6.0	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.21	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
17060-07-0	1,2-Dichloroethane-D4	103%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-11	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.9
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15655.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	30	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	47	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	49	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	580	36	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	36	ug/kg	
95-48-7	2-Methylphenol	ND	58	33	ug/kg	
	3&4-Methylphenol	ND	58	37	ug/kg	
88-75-5	2-Nitrophenol	ND	150	31	ug/kg	
100-02-7	4-Nitrophenol	ND	290	49	ug/kg	
87-86-5	Pentachlorophenol	ND	290	50	ug/kg	
108-95-2	Phenol	ND	58	31	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	30	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	34	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.5	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.4	ug/kg	
98-86-2	Acetophenone	ND	150	5.1	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	150	5.8	ug/kg	
56-55-3	Benzo(a)anthracene	31.7	29	9.5	ug/kg	
50-32-8	Benzo(a)pyrene	23.8	29	8.9	ug/kg	J
205-99-2	Benzo(b)fluoranthene	23.3	29	9.8	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	17.9	29	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	21.5	29	11	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	58	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	58	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	58	3.4	ug/kg	
100-52-7	Benzaldehyde	ND	150	6.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	58	9.1	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.4	ug/kg	
86-74-8	Carbazole	ND	58	14	ug/kg	

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-11	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.9
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	58	9.2	ug/kg	
218-01-9	Chrysene	30.7	29	9.9	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	58	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	58	8.8	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	58	8.7	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	58	8.8	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	58	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	58	11	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	150	7.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	10	ug/kg	
132-64-9	Dibenzofuran	ND	58	8.7	ug/kg	
84-74-2	Di-n-butyl phthalate	34.4	58	6.5	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	58	14	ug/kg	
84-66-2	Diethyl phthalate	ND	58	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	58	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	59.0	58	26	ug/kg	
206-44-0	Fluoranthene	70.9	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.6	ug/kg	
118-74-1	Hexachlorobenzene	ND	58	9.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	8.1	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	30	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.1	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16.3	29	10	ug/kg	J
78-59-1	Isophorone	ND	58	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	58	16	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	11	ug/kg	
91-20-3	Naphthalene	ND	29	8.0	ug/kg	
98-95-3	Nitrobenzene	ND	58	8.4	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	58	7.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	17	ug/kg	
85-01-8	Phenanthrene	35.7	29	13	ug/kg	
129-00-0	Pyrene	56.8	29	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		21-116%
4165-62-2	Phenol-d5	40%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-6(0-2) ALT		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-11		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 96.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63%		24-136%
4165-60-0	Nitrobenzene-d5	42%		21-122%
321-60-8	2-Fluorobiphenyl	41%		30-117%
1718-51-0	Terphenyl-d14	79%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-6(0-2) ALT	
<b>Lab Sample ID:</b> JB13726-11	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 96.9
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67233.D	1	08/22/12	OPM	08/16/12	OP59048	G3G2386
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.50	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.47	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.31	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.44	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	6.2	0.67	0.34	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.40	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.49	ug/kg	
72-20-8	Endrin	ND	0.67	0.34	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.64	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.32	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.41	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.47	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.44	ug/kg	
8001-35-2	Toxaphene	ND	17	8.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		23-137%
877-09-8	Tetrachloro-m-xylene	91%		23-137%
2051-24-3	Decachlorobiphenyl	75%		22-160%
2051-24-3	Decachlorobiphenyl	85%		22-160%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-11	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.9
<b>Method:</b>	SW846 8082A SW846 3546		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70481.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	15	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.7	ug/kg	
37324-23-5	Aroclor 1262	ND	33	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		22-141%
877-09-8	Tetrachloro-m-xylene	88%		22-141%
2051-24-3	Decachlorobiphenyl	71%		18-163%
2051-24-3	Decachlorobiphenyl	76%		18-163%

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J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-6(0-2) ALT	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-11	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.9
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9860	54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.1	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	3.4	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	61.3	21	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.76	0.21	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.54	0.54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	8030	540	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	30.5	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	12.6	5.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	90.5	2.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	21000	54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	86.3	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3610	540	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	362	1.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.034	0.034	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	17.9	4.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1240	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.1	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.54	0.54	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	29.3	5.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	554	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66291

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-6(12-14) ALT	
<b>Lab Sample ID:</b> JB13726-12	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 98.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176523.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.8	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	0.11	ug/kg	
75-25-2	Bromoform	ND	5.2	0.16	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.24	ug/kg	
67-66-3	Chloroform	1.2	5.2	0.086	ug/kg	J
74-87-3	Chloromethane	ND	5.2	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.2	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.92	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	0.24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.2	0.27	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.2	0.19	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.2	0.25	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	62	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/kg	
76-13-1	Freon 113	ND	5.2	0.45	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(12-14) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-12	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	98.4
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.2	0.65	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	0.077	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	5.2	0.18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	0.78	ug/kg	
75-09-2	Methylene chloride	ND	5.2	1.3	ug/kg	
100-42-5	Styrene	ND	5.2	0.095	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.2	0.18	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	0.17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.18	ug/kg	
79-01-6	Trichloroethene	ND	5.2	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	0.31	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	0.15	ug/kg	
	m,p-Xylene	ND	1.0	0.18	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-6(12-14) ALT	
<b>Lab Sample ID:</b> JB13726-12	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 98.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15599.D	1	08/22/12	ALS	08/16/12	OP59045	E2P708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	47	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	49	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	580	35	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	35	ug/kg	
95-48-7	2-Methylphenol	ND	58	33	ug/kg	
	3&4-Methylphenol	ND	58	37	ug/kg	
88-75-5	2-Nitrophenol	ND	150	31	ug/kg	
100-02-7	4-Nitrophenol	ND	290	49	ug/kg	
87-86-5	Pentachlorophenol	ND	290	50	ug/kg	
108-95-2	Phenol	ND	58	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	30	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	34	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.4	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.3	ug/kg	
98-86-2	Acetophenone	ND	150	5.1	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	150	5.7	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.5	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.7	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	58	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	58	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	58	3.4	ug/kg	
100-52-7	Benzaldehyde	ND	150	6.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	58	9.0	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.3	ug/kg	
86-74-8	Carbazole	ND	58	13	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(12-14) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-12	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	98.4
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	58	9.1	ug/kg	
218-01-9	Chrysene	ND	29	9.8	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	58	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	58	8.7	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	58	8.6	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	58	8.7	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	58	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	58	11	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	150	7.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.9	ug/kg	
132-64-9	Dibenzofuran	ND	58	8.6	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	58	6.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	58	14	ug/kg	
84-66-2	Diethyl phthalate	ND	58	9.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	58	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	58	26	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.5	ug/kg	
118-74-1	Hexachlorobenzene	ND	58	9.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	8.1	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	30	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.1	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	10	ug/kg	
78-59-1	Isophorone	ND	58	7.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	58	16	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.9	ug/kg	
98-95-3	Nitrobenzene	ND	58	8.4	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	58	7.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		21-116%
4165-62-2	Phenol-d5	60%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-6(12-14) ALT		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-12		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 98.4
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	56%		24-136%
4165-60-0	Nitrobenzene-d5	71%		21-122%
321-60-8	2-Fluorobiphenyl	64%		30-117%
1718-51-0	Terphenyl-d14	93%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-6(12-14) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-12	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	98.4
<b>Method:</b>	SW846 8081B SW846 3546		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67430.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.65	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.65	0.48	ug/kg	
319-85-7	beta-BHC	ND	0.65	0.45	ug/kg	
319-86-8	delta-BHC	ND	0.65	0.38	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.65	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.65	0.42	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.65	0.33	ug/kg	
60-57-1	Dieldrin	ND	0.65	0.50	ug/kg	
72-54-8	4,4'-DDD	ND	0.65	0.33	ug/kg	
72-55-9	4,4'-DDE	ND	0.65	0.38	ug/kg	
50-29-3	4,4'-DDT	ND	0.65	0.47	ug/kg	
72-20-8	Endrin	ND	0.65	0.33	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.65	0.59	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.65	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	0.65	0.31	ug/kg	
33213-65-9	Endosulfan-II	ND	0.65	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.65	0.40	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.65	0.32	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.46	ug/kg	
53494-70-5	Endrin ketone	ND	0.65	0.42	ug/kg	
8001-35-2	Toxaphene	ND	16	8.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		23-137%
877-09-8	Tetrachloro-m-xylene	75%		23-137%
2051-24-3	Decachlorobiphenyl	98%		22-160%
2051-24-3	Decachlorobiphenyl	75%		22-160%

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-6(12-14) ALT	
<b>Lab Sample ID:</b> JB13726-12	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 98.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70482.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	32	8.3	ug/kg	
11104-28-2	Aroclor 1221	ND	32	19	ug/kg	
11141-16-5	Aroclor 1232	ND	32	16	ug/kg	
53469-21-9	Aroclor 1242	ND	32	10	ug/kg	
12672-29-6	Aroclor 1248	ND	32	9.7	ug/kg	
11097-69-1	Aroclor 1254	ND	32	15	ug/kg	
11096-82-5	Aroclor 1260	ND	32	10	ug/kg	
11100-14-4	Aroclor 1268	ND	32	9.4	ug/kg	
37324-23-5	Aroclor 1262	ND	32	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		22-141%
877-09-8	Tetrachloro-m-xylene	83%		22-141%
2051-24-3	Decachlorobiphenyl	79%		18-163%
2051-24-3	Decachlorobiphenyl	86%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-6(12-14) ALT	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-12	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 98.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4160	51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	< 2.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	25.5	20	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.24	0.20	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.51	0.51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1400	510	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	9.6	1.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 5.1	5.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	11.5	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	9960	51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	7.9	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	1800	510	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	278	1.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.033	0.033	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	9.0	4.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1000	1000	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.51	0.51	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1000	1000	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.0	1.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	15.4	5.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	20.0	2.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-7(0-2)		
<b>Lab Sample ID:</b> JB13726-13		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 93.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A186091.D	1	08/22/12	CL	n/a	n/a	VA6977
Run #2							

Run #1	Initial Weight
Run #1	4.6 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	0.75	1.2	0.14	ug/kg	J
74-97-5	Bromochloromethane	ND	5.8	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.12	ug/kg	
75-25-2	Bromoform	ND	5.8	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.13	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.27	ug/kg	
67-66-3	Chloroform	ND	5.8	0.097	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.22	ug/kg	
110-82-7	Cyclohexane	ND	5.8	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	150	70	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
76-13-1	Freon 113	ND	5.8	0.50	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-7(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-13	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.0
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.8	0.73	ug/kg	
98-82-8	Isopropylbenzene	ND	5.8	0.087	ug/kg	
79-20-9	Methyl Acetate	ND	5.8	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.8	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	0.88	ug/kg	
75-09-2	Methylene chloride	ND	5.8	1.5	ug/kg	
100-42-5	Styrene	ND	5.8	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.20	ug/kg	
108-88-3	Toluene	1.5	1.2	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.8	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.17	ug/kg	
	m,p-Xylene	0.64	1.2	0.20	ug/kg	J
95-47-6	o-Xylene	0.25	1.2	0.16	ug/kg	J
1330-20-7	Xylene (total)	0.89	1.2	0.16	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	113%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(0-2)		
<b>Lab Sample ID:</b> JB13726-13		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 93.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15662.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	150	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	150	49	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	150	51	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	610	37	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	610	37	ug/kg	
95-48-7	2-Methylphenol	ND	61	35	ug/kg	
	3&4-Methylphenol	ND	61	39	ug/kg	
88-75-5	2-Nitrophenol	ND	150	32	ug/kg	
100-02-7	4-Nitrophenol	ND	310	52	ug/kg	
87-86-5	Pentachlorophenol	ND	310	52	ug/kg	
108-95-2	Phenol	ND	61	32	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	150	31	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	150	35	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	150	29	ug/kg	
83-32-9	Acenaphthene	ND	31	8.9	ug/kg	
208-96-8	Acenaphthylene	ND	31	9.8	ug/kg	
98-86-2	Acetophenone	ND	150	5.4	ug/kg	
120-12-7	Anthracene	ND	31	11	ug/kg	
1912-24-9	Atrazine	ND	150	6.0	ug/kg	
56-55-3	Benzo(a)anthracene	38.6	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	38.8	31	9.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	39.2	31	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	31.5	31	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	29.0	31	11	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	61	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	61	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	61	3.5	ug/kg	
100-52-7	Benzaldehyde	ND	150	7.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	61	9.5	ug/kg	
106-47-8	4-Chloroaniline	ND	150	9.8	ug/kg	
86-74-8	Carbazole	ND	61	14	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-7(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-13	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.0
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	61	9.6	ug/kg	
218-01-9	Chrysene	44.2	31	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	61	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	61	9.2	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	61	9.1	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	61	9.2	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	61	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	61	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	150	7.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	11.3	31	10	ug/kg	J
132-64-9	Dibenzofuran	ND	61	9.1	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	61	6.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	61	15	ug/kg	
84-66-2	Diethyl phthalate	ND	61	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	61	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	61	27	ug/kg	
206-44-0	Fluoranthene	75.4	31	13	ug/kg	
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	61	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	31	ug/kg	
67-72-1	Hexachloroethane	ND	150	8.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	25.3	31	11	ug/kg	J
78-59-1	Isophorone	ND	61	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	61	17	ug/kg	
88-74-4	2-Nitroaniline	ND	150	13	ug/kg	
99-09-2	3-Nitroaniline	ND	150	12	ug/kg	
100-01-6	4-Nitroaniline	ND	150	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.3	ug/kg	
98-95-3	Nitrobenzene	ND	61	8.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	61	7.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	150	18	ug/kg	
85-01-8	Phenanthrene	38.2	31	14	ug/kg	
129-00-0	Pyrene	64.9	31	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	150	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		21-116%
4165-62-2	Phenol-d5	38%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-7(0-2)	
<b>Lab Sample ID:</b> JB13726-13	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 93.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62%		24-136%
4165-60-0	Nitrobenzene-d5	41%		21-122%
321-60-8	2-Fluorobiphenyl	43%		30-117%
1718-51-0	Terphenyl-d14	68%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(0-2)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-13		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67431.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.51	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.47	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.31	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.44	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.35	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.68	0.35	ug/kg	
72-55-9	4,4'-DDE	ND	0.68	0.40	ug/kg	
50-29-3	4,4'-DDT	ND	0.68	0.50	ug/kg	
72-20-8	Endrin	ND	0.68	0.35	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.64	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.33	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.41	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.48	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.44	ug/kg	
8001-35-2	Toxaphene	ND	17	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		23-137%
877-09-8	Tetrachloro-m-xylene	80%		23-137%
2051-24-3	Decachlorobiphenyl	101%		22-160%
2051-24-3	Decachlorobiphenyl	70%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(0-2)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-13		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70483.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		22-141%
877-09-8	Tetrachloro-m-xylene	85%		22-141%
2051-24-3	Decachlorobiphenyl	55%		18-163%
2051-24-3	Decachlorobiphenyl	57%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7(0-2)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-13	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4910	52	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.1	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	2.4	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	33.8	21	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.24	0.21	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.52	0.52	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1810	520	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	11.3	1.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 5.2	5.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	66.3	2.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	9310	52	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	90.4	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	2480	520	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	172	1.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.079	0.033	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	9.6	4.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1000	1000	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.1	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.52	0.52	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1000	1000	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.0	1.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	15.4	5.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	55.6	2.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-7(12-14)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-14		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176527.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.7 g
Run #2	

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.2	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.13	ug/kg	
75-25-2	Bromoform	ND	6.4	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.29	ug/kg	
67-66-3	Chloroform	ND	6.4	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	76	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.4	0.55	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(12-14)	
<b>Lab Sample ID:</b> JB13726-14	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 83.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.4	0.79	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	0.095	ug/kg	
79-20-9	Methyl Acetate	ND	6.4	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.4	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	0.96	ug/kg	
75-09-2	Methylene chloride	ND	6.4	1.6	ug/kg	
100-42-5	Styrene	ND	6.4	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.4	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(12-14)		
<b>Lab Sample ID:</b> JB13726-14		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 83.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15656.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	42	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	9.9	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	18.6	34	11	ug/kg	J
50-32-8	Benzo(a)pyrene	14.1	34	10	ug/kg	J
205-99-2	Benzo(b)fluoranthene	16.6	34	11	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	15.1	34	13	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-7(12-14)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-14	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	83.5
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	21.5	34	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	17	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	68	30	ug/kg	
206-44-0	Fluoranthene	50.1	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	68	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	22.5	34	16	ug/kg	J
129-00-0	Pyrene	38.7	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		21-116%
4165-62-2	Phenol-d5	59%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-7(12-14)	
<b>Lab Sample ID:</b> JB13726-14	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 83.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80%		24-136%
4165-60-0	Nitrobenzene-d5	64%		21-122%
321-60-8	2-Fluorobiphenyl	63%		30-117%
1718-51-0	Terphenyl-d14	95%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(12-14)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-14		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.5
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67432.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.77	0.39	ug/kg	
319-84-6	alpha-BHC	ND	0.77	0.58	ug/kg	
319-85-7	beta-BHC	ND	0.77	0.54	ug/kg	
319-86-8	delta-BHC	ND	0.77	0.45	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.77	0.35	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.77	0.50	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.77	0.39	ug/kg	
60-57-1	Dieldrin	ND	0.77	0.60	ug/kg	
72-54-8	4,4'-DDD	ND	0.77	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.77	0.46	ug/kg	
50-29-3	4,4'-DDT	ND	0.77	0.57	ug/kg	
72-20-8	Endrin	ND	0.77	0.39	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.77	0.70	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.77	0.73	ug/kg	
959-98-8	Endosulfan-I	ND	0.77	0.37	ug/kg	
33213-65-9	Endosulfan-II	ND	0.77	0.51	ug/kg	
76-44-8	Heptachlor	ND	0.77	0.47	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.77	0.38	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.55	ug/kg	
53494-70-5	Endrin ketone	ND	0.77	0.50	ug/kg	
8001-35-2	Toxaphene	ND	19	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		23-137%
877-09-8	Tetrachloro-m-xylene	105%		23-137%
2051-24-3	Decachlorobiphenyl	111%		22-160%
2051-24-3	Decachlorobiphenyl	89%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-7(12-14)		
<b>Lab Sample ID:</b> JB13726-14		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546		<b>Percent Solids:</b> 83.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70484.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	10	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	13	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		22-141%
877-09-8	Tetrachloro-m-xylene	98%		22-141%
2051-24-3	Decachlorobiphenyl	55%		18-163%
2051-24-3	Decachlorobiphenyl	59%		18-163%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-7(12-14)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-14	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	14500	58	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	4.1	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	53.4	23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.59	0.23	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.58	0.58	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	2080	580	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	16.7	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	5.9	5.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	18.6	2.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	17500	58	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	50.4	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3020	580	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	289	1.7	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.066	0.037	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	11.7	4.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.3	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.58	0.58	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	24.9	5.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	34.7	2.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-8(0-2)		
<b>Lab Sample ID:</b> JB13726-15		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 88.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176528.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.7 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.5	12	2.0	ug/kg	J
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	0.13	ug/kg	
75-25-2	Bromoform	ND	6.0	0.18	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.33	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.9	ug/kg	
75-15-0	Carbon disulfide	1.3	6.0	0.14	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.0	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.27	ug/kg	
67-66-3	Chloroform	ND	6.0	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.22	ug/kg	
110-82-7	Cyclohexane	ND	6.0	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.0	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.0	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.0	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	0.31	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	0.22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	72	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.32	ug/kg	
76-13-1	Freon 113	ND	6.0	0.52	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(0-2)	
<b>Lab Sample ID:</b> JB13726-15	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 88.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.0	0.75	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	0.090	ug/kg	
79-20-9	Methyl Acetate	ND	6.0	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	6.0	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	0.90	ug/kg	
75-09-2	Methylene chloride	ND	6.0	1.5	ug/kg	
100-42-5	Styrene	ND	6.0	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.0	0.21	ug/kg	
108-88-3	Toluene	0.82	1.2	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	0.21	ug/kg	
79-01-6	Trichloroethene	ND	6.0	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.21	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	105%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(0-2)		
<b>Lab Sample ID:</b> JB13726-15		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 88.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15663.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	52	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	54	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	640	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	640	39	ug/kg	
95-48-7	2-Methylphenol	ND	64	37	ug/kg	
	3&4-Methylphenol	ND	64	41	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	55	ug/kg	
108-95-2	Phenol	ND	64	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	156	32	9.3	ug/kg	
208-96-8	Acenaphthylene	53.7	32	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	452	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	1070	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	985	32	9.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	839	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	618	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	742	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	64	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	64	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	64	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	64	9.9	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	151	64	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-8(0-2)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-15	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.3
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	64	10	ug/kg	
218-01-9	Chrysene	1050	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	64	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	64	9.7	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	64	9.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	64	9.7	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	64	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	64	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	302	32	11	ug/kg	
132-64-9	Dibenzofuran	63.1	64	9.5	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	64	7.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	64	16	ug/kg	
84-66-2	Diethyl phthalate	ND	64	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	64	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	64	28	ug/kg	
206-44-0	Fluoranthene	2330	32	14	ug/kg	
86-73-7	Fluorene	170	32	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	64	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	572	32	11	ug/kg	
78-59-1	Isophorone	ND	64	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	33.4	64	18	ug/kg	J
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	34.3	32	8.8	ug/kg	
98-95-3	Nitrobenzene	ND	64	9.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	64	7.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	1770	32	15	ug/kg	
129-00-0	Pyrene	1930	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		21-116%
4165-62-2	Phenol-d5	46%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-8(0-2)	
<b>Lab Sample ID:</b> JB13726-15	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 88.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72%		24-136%
4165-60-0	Nitrobenzene-d5	47%		21-122%
321-60-8	2-Fluorobiphenyl	53%		30-117%
1718-51-0	Terphenyl-d14	75%		31-129%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-8(0-2)		
<b>Lab Sample ID:</b> JB13726-15		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546		<b>Percent Solids:</b> 88.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67433.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.51	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.47	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.37	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.56	ug/kg	
72-54-8	4,4'-DDD <sup>a</sup>	2.5	0.73	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.73	0.43	ug/kg	
50-29-3	4,4'-DDT	15.8	0.73	0.53	ug/kg	
72-20-8	Endrin	ND	0.73	0.37	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.66	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.69	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.35	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.48	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.45	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.36	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.51	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.47	ug/kg	
8001-35-2	Toxaphene	ND	18	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		23-137%
877-09-8	Tetrachloro-m-xylene	89%		23-137%
2051-24-3	Decachlorobiphenyl	135%		22-160%
2051-24-3	Decachlorobiphenyl	91%		22-160%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(0-2)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-15		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 88.3
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70485.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	11	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	12	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		22-141%
877-09-8	Tetrachloro-m-xylene	77%		22-141%
2051-24-3	Decachlorobiphenyl	72%		18-163%
2051-24-3	Decachlorobiphenyl	67%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(0-2)	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-15	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6890	60	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	9.3	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	334	24	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.73	0.24	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	1.7	0.60	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	9620	600	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	19.3	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	8.8	6.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	174	3.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	16500	60	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	765	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	2550	600	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	249	1.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.43	0.037	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	25.2	4.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1460	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.60	0.60	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	24.7	6.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	781	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-8(6-8)		
<b>Lab Sample ID:</b> JB13726-16		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 79.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176529.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18.3	15	2.5	ug/kg	
71-43-2	Benzene	ND	1.5	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	7.4	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	7.4	0.15	ug/kg	
75-25-2	Bromoform	ND	7.4	0.22	ug/kg	
74-83-9	Bromomethane	ND	7.4	0.40	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	3.5	ug/kg	
75-15-0	Carbon disulfide	1.4	7.4	0.17	ug/kg	J
56-23-5	Carbon tetrachloride	ND	7.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	7.4	0.16	ug/kg	
75-00-3	Chloroethane	ND	7.4	0.33	ug/kg	
67-66-3	Chloroform	ND	7.4	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.4	0.27	ug/kg	
110-82-7	Cyclohexane	ND	7.4	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	15	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.4	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.5	0.19	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.4	0.28	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.4	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.4	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.4	0.34	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.4	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.4	0.38	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.4	0.27	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.4	0.35	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.4	0.23	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.4	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.4	0.23	ug/kg	
123-91-1	1,4-Dioxane	ND	180	87	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	0.39	ug/kg	
76-13-1	Freon 113	ND	7.4	0.63	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(6-8)	
<b>Lab Sample ID:</b> JB13726-16	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 79.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.4	0.91	ug/kg	
98-82-8	Isopropylbenzene	ND	7.4	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.4	3.8	ug/kg	
108-87-2	Methylcyclohexane	ND	7.4	0.25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.4	1.1	ug/kg	
75-09-2	Methylene chloride	ND	7.4	1.9	ug/kg	
100-42-5	Styrene	ND	7.4	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	7.4	0.25	ug/kg	
108-88-3	Toluene	0.75	1.5	0.15	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	7.4	0.24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.4	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.4	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.4	0.26	ug/kg	
79-01-6	Trichloroethene	ND	7.4	0.26	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.4	0.44	ug/kg	
75-01-4	Vinyl chloride	ND	7.4	0.21	ug/kg	
	m,p-Xylene	ND	1.5	0.26	ug/kg	
95-47-6	o-Xylene	ND	1.5	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-16		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 79.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15657.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	18.4	36	10	ug/kg	J
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
120-12-7	Anthracene	44.2	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	107	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	94.7	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	79.4	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	62.3	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	72.4	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	20.3	72	17	ug/kg	J

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-8(6-8)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-16	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	79.1
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	104	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	23.0	36	12	ug/kg	J
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	240	36	16	ug/kg	
86-73-7	Fluorene	17.7	36	12	ug/kg	J
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	56.4	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	188	36	16	ug/kg	
129-00-0	Pyrene	212	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		21-116%
4165-62-2	Phenol-d5	58%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-8(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-16		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 79.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63%		24-136%
4165-60-0	Nitrobenzene-d5	58%		21-122%
321-60-8	2-Fluorobiphenyl	54%		30-117%
1718-51-0	Terphenyl-d14	73%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-16		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 79.1
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4230.D	1	08/28/12	HQ	08/16/12	OP59048	G5G104
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.84	0.42	ug/kg	
319-84-6	alpha-BHC	ND	0.84	0.63	ug/kg	
319-85-7	beta-BHC	ND	0.84	0.59	ug/kg	
319-86-8	delta-BHC	ND	0.84	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.84	0.38	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.84	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.84	0.43	ug/kg	
60-57-1	Dieldrin	ND	0.84	0.65	ug/kg	
72-54-8	4,4'-DDD	ND	0.84	0.43	ug/kg	
72-55-9	4,4'-DDE	ND	0.84	0.49	ug/kg	
50-29-3	4,4'-DDT <sup>a</sup>	1.2	0.84	0.61	ug/kg	
72-20-8	Endrin	ND	0.84	0.43	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.84	0.76	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.84	0.79	ug/kg	
959-98-8	Endosulfan-I	ND	0.84	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.84	0.55	ug/kg	
76-44-8	Heptachlor	ND	0.84	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.84	0.41	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.59	ug/kg	
53494-70-5	Endrin ketone	ND	0.84	0.54	ug/kg	
8001-35-2	Toxaphene	ND	21	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	129%		23-137%
877-09-8	Tetrachloro-m-xylene	65%		23-137%
2051-24-3	Decachlorobiphenyl	102%		22-160%
2051-24-3	Decachlorobiphenyl	123%		22-160%

(a) Reported from 1st signal. % RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.

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

## Report of Analysis

<b>Client Sample ID:</b> SB-8(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-16		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 79.1
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70486.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	42	11	ug/kg	
11104-28-2	Aroclor 1221	ND	42	25	ug/kg	
11141-16-5	Aroclor 1232	ND	42	21	ug/kg	
53469-21-9	Aroclor 1242	ND	42	13	ug/kg	
12672-29-6	Aroclor 1248	ND	42	13	ug/kg	
11097-69-1	Aroclor 1254	ND	42	19	ug/kg	
11096-82-5	Aroclor 1260	ND	42	14	ug/kg	
11100-14-4	Aroclor 1268	ND	42	12	ug/kg	
37324-23-5	Aroclor 1262	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		22-141%
877-09-8	Tetrachloro-m-xylene	89%		22-141%
2051-24-3	Decachlorobiphenyl	62%		18-163%
2051-24-3	Decachlorobiphenyl	70%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-8(6-8)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-16	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	79.1
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10700	60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	4.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	107	24	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.47	0.24	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.60	0.60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	3390	600	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	24.7	1.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	6.8	6.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	51.4	3.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	15300	60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	203	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	2720	600	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	168	1.8	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.73	0.040	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	15.1	4.8	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1290	1200	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.60	0.60	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	27.9	6.0	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	119	2.4	mg/kg	1	08/24/12	08/24/12	BL SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-9(0-2)		
<b>Lab Sample ID:</b> JB13726-17		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 81.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176530.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	45.8	14	2.4	ug/kg	
71-43-2	Benzene	ND	1.4	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	7.2	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	7.2	0.15	ug/kg	
75-25-2	Bromoform	ND	7.2	0.22	ug/kg	
74-83-9	Bromomethane	ND	7.2	0.39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.4	ug/kg	
75-15-0	Carbon disulfide	6.4	7.2	0.17	ug/kg	J
56-23-5	Carbon tetrachloride	ND	7.2	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	7.2	0.15	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.33	ug/kg	
67-66-3	Chloroform	ND	7.2	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.2	0.27	ug/kg	
110-82-7	Cyclohexane	ND	7.2	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.2	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.2	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.2	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.2	0.25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.2	0.33	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.2	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.2	0.37	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.2	0.26	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.2	0.34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.2	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.2	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.2	0.22	ug/kg	
123-91-1	1,4-Dioxane	ND	180	85	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.38	ug/kg	
76-13-1	Freon 113	ND	7.2	0.62	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(0-2)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-17		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.1
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.2	0.89	ug/kg	
98-82-8	Isopropylbenzene	ND	7.2	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.2	3.7	ug/kg	
108-87-2	Methylcyclohexane	ND	7.2	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.2	1.1	ug/kg	
75-09-2	Methylene chloride	ND	7.2	1.8	ug/kg	
100-42-5	Styrene	ND	7.2	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.2	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	7.2	0.25	ug/kg	
108-88-3	Toluene	0.94	1.4	0.15	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	7.2	0.24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.2	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.2	0.25	ug/kg	
79-01-6	Trichloroethene	ND	7.2	0.25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.2	0.43	ug/kg	
75-01-4	Vinyl chloride	ND	7.2	0.21	ug/kg	
	m,p-Xylene	0.67	1.4	0.25	ug/kg	J
95-47-6	o-Xylene	ND	1.4	0.20	ug/kg	
1330-20-7	Xylene (total)	0.67	1.4	0.20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(0-2)		
<b>Lab Sample ID:</b> JB13726-17		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 81.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15658.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.5 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	56	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	42	ug/kg	
95-48-7	2-Methylphenol	ND	69	40	ug/kg	
	3&4-Methylphenol	ND	69	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	59	ug/kg	
87-86-5	Pentachlorophenol	ND	350	59	ug/kg	
108-95-2	Phenol	ND	69	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	29.7	35	11	ug/kg	J
50-32-8	Benzo(a)pyrene	23.3	35	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	21.2	35	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	16.9	35	13	ug/kg	J
207-08-9	Benzo(k)fluoranthene	17.7	35	13	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	69	16	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-9(0-2)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-17	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	81.1
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	27.5	35	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	31	ug/kg	
206-44-0	Fluoranthene	61.2	35	15	ug/kg	
86-73-7	Fluorene	ND	35	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.7	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	69	9.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.5	ug/kg	
98-95-3	Nitrobenzene	ND	69	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	39.3	35	16	ug/kg	
129-00-0	Pyrene	52.2	35	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		21-116%
4165-62-2	Phenol-d5	46%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-9(0-2)	
<b>Lab Sample ID:</b> JB13726-17	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 81.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59%		24-136%
4165-60-0	Nitrobenzene-d5	48%		21-122%
321-60-8	2-Fluorobiphenyl	45%		30-117%
1718-51-0	Terphenyl-d14	70%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(0-2)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-17		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.1
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4231.D	1	08/28/12	HQ	08/16/12	OP59048	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

### Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.81	0.40	ug/kg	
319-84-6	alpha-BHC	ND	0.81	0.61	ug/kg	
319-85-7	beta-BHC	ND	0.81	0.57	ug/kg	
319-86-8	delta-BHC	ND	0.81	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.81	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.81	0.53	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.81	0.41	ug/kg	
60-57-1	Dieldrin	ND	0.81	0.63	ug/kg	
72-54-8	4,4'-DDD	ND	0.81	0.42	ug/kg	
72-55-9	4,4'-DDE	ND	0.81	0.48	ug/kg	
50-29-3	4,4'-DDT <sup>a</sup>	1.9	0.81	0.59	ug/kg	
72-20-8	Endrin	ND	0.81	0.41	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.81	0.73	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.81	0.77	ug/kg	
959-98-8	Endosulfan-I	ND	0.81	0.39	ug/kg	
33213-65-9	Endosulfan-II	ND	0.81	0.53	ug/kg	
76-44-8	Heptachlor	ND	0.81	0.50	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.81	0.40	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.57	ug/kg	
53494-70-5	Endrin ketone	ND	0.81	0.53	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		23-137%
877-09-8	Tetrachloro-m-xylene	98%		23-137%
2051-24-3	Decachlorobiphenyl	95%		22-160%
2051-24-3	Decachlorobiphenyl	114%		22-160%

(a) Reported from 1st signal. % RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-9(0-2)		
<b>Lab Sample ID:</b> JB13726-17		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546		<b>Percent Solids:</b> 81.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70487.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	10	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	20	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248	ND	40	12	ug/kg	
11097-69-1	Aroclor 1254	ND	40	19	ug/kg	
11096-82-5	Aroclor 1260	ND	40	13	ug/kg	
11100-14-4	Aroclor 1268	ND	40	12	ug/kg	
37324-23-5	Aroclor 1262	ND	40	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		22-141%
877-09-8	Tetrachloro-m-xylene	87%		22-141%
2051-24-3	Decachlorobiphenyl	74%		18-163%
2051-24-3	Decachlorobiphenyl	78%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(0-2)	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-17	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.1
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7320	62	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.5	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	3.6	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	138	25	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.46	0.25	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.62	0.62	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	4430	620	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	14.0	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 6.2	6.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	24.4	3.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	14200	62	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	386	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	1880	620	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	269	1.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	1.4	0.075	mg/kg	2	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	9.9	4.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.5	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.62	0.62	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	20.6	6.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	169	2.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-9(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-18		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 76.3
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176531.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.9 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	24.7	13	2.3	ug/kg	
71-43-2	Benzene	ND	1.3	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	0.14	ug/kg	
75-25-2	Bromoform	ND	6.7	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.7	0.37	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.2	ug/kg	
75-15-0	Carbon disulfide	3.7	6.7	0.16	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.7	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.30	ug/kg	
67-66-3	Chloroform	ND	6.7	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.7	0.25	ug/kg	
110-82-7	Cyclohexane	ND	6.7	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.7	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.7	0.25	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.7	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.7	0.34	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.7	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.7	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	80	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.35	ug/kg	
76-13-1	Freon 113	ND	6.7	0.58	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(6-8)	
<b>Lab Sample ID:</b> JB13726-18	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 76.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.7	0.83	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	0.099	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	3.5	ug/kg	
108-87-2	Methylcyclohexane	ND	6.7	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.7	1.7	ug/kg	
100-42-5	Styrene	ND	6.7	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	6.7	0.23	ug/kg	
108-88-3	Toluene	0.92	1.3	0.14	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.7	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.40	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	0.19	ug/kg	
	m,p-Xylene	0.70	1.3	0.23	ug/kg	J
95-47-6	o-Xylene	ND	1.3	0.19	ug/kg	
1330-20-7	Xylene (total)	0.70	1.3	0.19	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-18		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 76.3
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15659.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	740	45	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	45	ug/kg	
95-48-7	2-Methylphenol	ND	74	42	ug/kg	
	3&4-Methylphenol	ND	74	47	ug/kg	
88-75-5	2-Nitrophenol	ND	190	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	63	ug/kg	
87-86-5	Pentachlorophenol	ND	370	63	ug/kg	
108-95-2	Phenol	ND	74	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	26.8	37	11	ug/kg	J
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.5	ug/kg	
120-12-7	Anthracene	63.4	37	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	155	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	130	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	109	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	74.9	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	101	37	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	23.9	74	17	ug/kg	J

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-9(6-8)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-18	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	76.3
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	159	37	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	37.3	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	33	ug/kg	
206-44-0	Fluoranthene	357	37	16	ug/kg	
86-73-7	Fluorene	28.2	37	12	ug/kg	J
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	68.9	37	13	ug/kg	
78-59-1	Isophorone	ND	74	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	280	37	17	ug/kg	
129-00-0	Pyrene	298	37	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		21-116%
4165-62-2	Phenol-d5	45%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-9(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-18		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 76.3
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58%		24-136%
4165-60-0	Nitrobenzene-d5	46%		21-122%
321-60-8	2-Fluorobiphenyl	45%		30-117%
1718-51-0	Terphenyl-d14	69%		31-129%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-9(6-8)		
<b>Lab Sample ID:</b> JB13726-18		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546		<b>Percent Solids:</b> 76.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70488.D	1	08/21/12	AZ	08/16/12	OP59047	G2G2445
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	42	11	ug/kg	
11104-28-2	Aroclor 1221	ND	42	25	ug/kg	
11141-16-5	Aroclor 1232	ND	42	21	ug/kg	
53469-21-9	Aroclor 1242	ND	42	13	ug/kg	
12672-29-6	Aroclor 1248	ND	42	13	ug/kg	
11097-69-1	Aroclor 1254	ND	42	20	ug/kg	
11096-82-5	Aroclor 1260	ND	42	14	ug/kg	
11100-14-4	Aroclor 1268	ND	42	12	ug/kg	
37324-23-5	Aroclor 1262	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		22-141%
877-09-8	Tetrachloro-m-xylene	73%		22-141%
2051-24-3	Decachlorobiphenyl	55%		18-163%
2051-24-3	Decachlorobiphenyl	59%		18-163%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-9(6-8)	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-18	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 76.3
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10500	65	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.6	2.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	5.1	2.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	104	26	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	1.5	0.26	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.65	0.65	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	2800	650	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	34.1	1.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	20.0	6.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	174	3.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	21600	65	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	239	2.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3010	650	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	325	1.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	1.2	0.082	mg/kg	2	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	33.1	5.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1300	1300	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.6	2.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.65	0.65	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1300	1300	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.3	1.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	28.0	6.5	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	1320	2.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	SB-10(0-2)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-19	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	81.7
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	I176537.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	70.7	61	10	ug/kg	
71-43-2	Benzene	ND	6.1	0.73	ug/kg	
74-97-5	Bromochloromethane	ND	31	1.6	ug/kg	
75-27-4	Bromodichloromethane	ND	31	0.64	ug/kg	
75-25-2	Bromoform	ND	31	0.92	ug/kg	
74-83-9	Bromomethane	ND	31	1.7	ug/kg	
78-93-3	2-Butanone (MEK)	ND	61	15	ug/kg	
75-15-0	Carbon disulfide	ND	31	0.72	ug/kg	
56-23-5	Carbon tetrachloride	ND	31	0.81	ug/kg	
108-90-7	Chlorobenzene	ND	31	0.66	ug/kg	
75-00-3	Chloroethane	ND	31	1.4	ug/kg	
67-66-3	Chloroform	ND	31	0.51	ug/kg	
74-87-3	Chloromethane	ND	31	1.1	ug/kg	
110-82-7	Cyclohexane	ND	31	0.76	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	61	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	31	1.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.1	0.78	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	31	1.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	31	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	31	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	31	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	31	0.84	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.1	0.83	ug/kg	
75-35-4	1,1-Dichloroethene	ND	31	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	31	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	31	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	31	0.94	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	31	0.85	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	31	0.95	ug/kg	
123-91-1	1,4-Dioxane	ND	760	360	ug/kg	
100-41-4	Ethylbenzene	ND	6.1	1.6	ug/kg	
76-13-1	Freon 113	ND	31	2.6	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(0-2)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-19		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	31	3.8	ug/kg	
98-82-8	Isopropylbenzene	ND	31	0.45	ug/kg	
79-20-9	Methyl Acetate	ND	31	16	ug/kg	
108-87-2	Methylcyclohexane	ND	31	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.1	1.4	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	31	4.6	ug/kg	
75-09-2	Methylene chloride	ND	31	7.8	ug/kg	
100-42-5	Styrene	ND	31	0.56	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	31	0.81	ug/kg	
127-18-4	Tetrachloroethene	ND	31	1.1	ug/kg	
108-88-3	Toluene	ND	6.1	0.64	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	31	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	31	0.85	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	31	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	31	1.1	ug/kg	
79-01-6	Trichloroethene	ND	31	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	31	1.8	ug/kg	
75-01-4	Vinyl chloride	ND	31	0.88	ug/kg	
	m,p-Xylene	ND	6.1	1.1	ug/kg	
95-47-6	o-Xylene	ND	6.1	0.85	ug/kg	
1330-20-7	Xylene (total)	ND	6.1	0.85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	105%		81-127%
460-00-4	4-Bromofluorobenzene	101%		66-132%

(a) Diluted due to high concentration of non-target compound.

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-10(0-2)		
<b>Lab Sample ID:</b> JB13726-19		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 81.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15660.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2	2P15680.D	2	08/27/12	ALS	08/16/12	OP59045	E2P712

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2	35.1 g	1.0 ml

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	56	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	43	ug/kg	
95-48-7	2-Methylphenol	ND	70	40	ug/kg	
	3&4-Methylphenol	ND	70	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	59	ug/kg	
87-86-5	Pentachlorophenol	ND	350	60	ug/kg	
108-95-2	Phenol	ND	70	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	2810	35	10	ug/kg	
208-96-8	Acenaphthylene	17.1	35	11	ug/kg	J
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	626	35	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	208	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	104	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	100	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	61.5	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	93.3	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	414	70	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	831	70	16	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-10(0-2)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-19	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	81.7
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	70	11	ug/kg	
218-01-9	Chrysene	208	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	28.7	35	12	ug/kg	J
132-64-9	Dibenzofuran	1840	70	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	47.0	70	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	31	ug/kg	
206-44-0	Fluoranthene	1440	35	15	ug/kg	
86-73-7	Fluorene	2300	35	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.7	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	36	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	54.1	35	12	ug/kg	
78-59-1	Isophorone	ND	70	9.4	ug/kg	
91-57-6	2-Methylnaphthalene	2560	70	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	14	ug/kg	
91-20-3	Naphthalene	1680	35	9.5	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	5190 <sup>a</sup>	70	32	ug/kg	
129-00-0	Pyrene	927	35	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	59%	21-116%
4165-62-2	Phenol-d5	55%	64%	19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(0-2)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-19		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76%	85%	24-136%
4165-60-0	Nitrobenzene-d5	57%	61%	21-122%
321-60-8	2-Fluorobiphenyl	54%	60%	30-117%
1718-51-0	Terphenyl-d14	84%	93%	31-129%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-10(0-2)		
<b>Lab Sample ID:</b> JB13726-19		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546		<b>Percent Solids:</b> 81.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67434.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.78	0.39	ug/kg	
319-84-6	alpha-BHC	ND	0.78	0.59	ug/kg	
319-85-7	beta-BHC	ND	0.78	0.55	ug/kg	
319-86-8	delta-BHC	ND	0.78	0.46	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.78	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.78	0.51	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.78	0.40	ug/kg	
60-57-1	Dieldrin	ND	0.78	0.61	ug/kg	
72-54-8	4,4'-DDD <sup>a</sup>	1.3	0.78	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.78	0.46	ug/kg	
50-29-3	4,4'-DDT <sup>b</sup>	11.7	0.78	0.58	ug/kg	
72-20-8	Endrin	ND	0.78	0.40	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.78	0.71	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.78	0.74	ug/kg	
959-98-8	Endosulfan-I	ND	0.78	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	0.78	0.52	ug/kg	
76-44-8	Heptachlor	ND	0.78	0.48	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.78	0.39	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.55	ug/kg	
53494-70-5	Endrin ketone	ND	0.78	0.51	ug/kg	
8001-35-2	Toxaphene	ND	20	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		23-137%
877-09-8	Tetrachloro-m-xylene	72%		23-137%
2051-24-3	Decachlorobiphenyl	92%		22-160%
2051-24-3	Decachlorobiphenyl	80%		22-160%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Reported from 1st signal. %RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(0-2)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-19		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70664.D	1	08/24/12	AZ	08/16/12	OP59047	G2G2448
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	11	ug/kg	
11104-28-2	Aroclor 1221	ND	41	24	ug/kg	
11141-16-5	Aroclor 1232	ND	41	21	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	ND	41	12	ug/kg	
11097-69-1	Aroclor 1254	ND	41	19	ug/kg	
11096-82-5	Aroclor 1260	ND	41	13	ug/kg	
11100-14-4	Aroclor 1268	ND	41	12	ug/kg	
37324-23-5	Aroclor 1262	ND	41	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		22-141%
877-09-8	Tetrachloro-m-xylene	114%		22-141%
2051-24-3	Decachlorobiphenyl	53%		18-163%
2051-24-3	Decachlorobiphenyl	64%		18-163%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-10(0-2)	
<b>Lab Sample ID:</b> JB13726-19	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
	<b>Percent Solids:</b> 81.7
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	13500	61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	4.8	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	78.4	24	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.51	0.24	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.61	0.61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1840	610	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	23.5	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 6.1	6.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	27.0	3.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	14700	61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	358	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3090	610	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	138	1.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.56	0.039	mg/kg	1	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	15.3	4.8	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1320	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.4	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.61	0.61	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	28.1	6.1	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	77.8	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-10(6-8)		
<b>Lab Sample ID:</b> JB13726-20		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 66.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176533.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.5 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	39.3	17	2.8	ug/kg	
71-43-2	Benzene	0.73	1.7	0.20	ug/kg	J
74-97-5	Bromochloromethane	ND	8.4	0.44	ug/kg	
75-27-4	Bromodichloromethane	ND	8.4	0.18	ug/kg	
75-25-2	Bromoform	ND	8.4	0.25	ug/kg	
74-83-9	Bromomethane	ND	8.4	0.46	ug/kg	
78-93-3	2-Butanone (MEK)	ND	17	4.0	ug/kg	
75-15-0	Carbon disulfide	3.1	8.4	0.20	ug/kg	J
56-23-5	Carbon tetrachloride	ND	8.4	0.22	ug/kg	
108-90-7	Chlorobenzene	ND	8.4	0.18	ug/kg	
75-00-3	Chloroethane	ND	8.4	0.38	ug/kg	
67-66-3	Chloroform	ND	8.4	0.14	ug/kg	
74-87-3	Chloromethane	ND	8.4	0.31	ug/kg	
110-82-7	Cyclohexane	ND	8.4	0.21	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	8.4	0.27	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.7	0.21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	8.4	0.32	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	8.4	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	8.4	0.29	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8.4	0.38	ug/kg	
75-34-3	1,1-Dichloroethane	ND	8.4	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.7	0.23	ug/kg	
75-35-4	1,1-Dichloroethene	ND	8.4	0.43	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	8.4	0.31	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	8.4	0.40	ug/kg	
78-87-5	1,2-Dichloropropane	ND	8.4	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	8.4	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	8.4	0.26	ug/kg	
123-91-1	1,4-Dioxane	ND	210	99	ug/kg	
100-41-4	Ethylbenzene	ND	1.7	0.44	ug/kg	
76-13-1	Freon 113	ND	8.4	0.72	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-10(6-8)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-20	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	66.5
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	8.4	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	8.4	0.12	ug/kg	
79-20-9	Methyl Acetate	ND	8.4	4.3	ug/kg	
108-87-2	Methylcyclohexane	ND	8.4	0.28	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.7	0.39	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	8.4	1.3	ug/kg	
75-09-2	Methylene chloride	ND	8.4	2.1	ug/kg	
100-42-5	Styrene	ND	8.4	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.4	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	8.4	0.29	ug/kg	
108-88-3	Toluene	1.9	1.7	0.18	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.4	0.27	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.4	0.23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	8.4	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	8.4	0.29	ug/kg	
79-01-6	Trichloroethene	ND	8.4	0.29	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8.4	0.50	ug/kg	
75-01-4	Vinyl chloride	ND	8.4	0.24	ug/kg	
	m,p-Xylene	1.0	1.7	0.29	ug/kg	J
95-47-6	o-Xylene	ND	1.7	0.23	ug/kg	
1330-20-7	Xylene (total)	1.0	1.7	0.23	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	97%		70-122%
2037-26-5	Toluene-D8	106%		81-127%
460-00-4	4-Bromofluorobenzene	110%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(6-8)		
<b>Lab Sample ID:</b> JB13726-20		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C		<b>Percent Solids:</b> 66.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15661.D	1	08/25/12	KLS	08/16/12	OP59045	E2P711
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	210	43	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	69	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	72	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	860	52	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	860	52	ug/kg	
95-48-7	2-Methylphenol	ND	86	49	ug/kg	
	3&4-Methylphenol	ND	86	55	ug/kg	
88-75-5	2-Nitrophenol	ND	210	46	ug/kg	
100-02-7	4-Nitrophenol	ND	430	73	ug/kg	
87-86-5	Pentachlorophenol	ND	430	73	ug/kg	
108-95-2	Phenol	ND	86	45	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	44	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	50	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	40	ug/kg	
83-32-9	Acenaphthene	ND	43	12	ug/kg	
208-96-8	Acenaphthylene	ND	43	14	ug/kg	
98-86-2	Acetophenone	ND	210	7.6	ug/kg	
120-12-7	Anthracene	24.9	43	15	ug/kg	J
1912-24-9	Atrazine	ND	210	8.5	ug/kg	
56-55-3	Benzo(a)anthracene	89.9	43	14	ug/kg	
50-32-8	Benzo(a)pyrene	71.8	43	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	63.1	43	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42.6	43	16	ug/kg	J
207-08-9	Benzo(k)fluoranthene	57.7	43	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	86	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	86	25	ug/kg	
92-52-4	1,1'-Biphenyl	ND	86	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	210	9.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	86	13	ug/kg	
106-47-8	4-Chloroaniline	ND	210	14	ug/kg	
86-74-8	Carbazole	ND	86	20	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-10(6-8)	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13726-20	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	66.5
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	86	14	ug/kg	
218-01-9	Chrysene	90.3	43	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	86	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	86	13	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	86	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	86	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	86	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	86	16	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	210	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	21.7	43	15	ug/kg	J
132-64-9	Dibenzofuran	ND	86	13	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	86	9.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	86	21	ug/kg	
84-66-2	Diethyl phthalate	ND	86	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	86	15	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	86	38	ug/kg	
206-44-0	Fluoranthene	184	43	19	ug/kg	
86-73-7	Fluorene	ND	43	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	86	14	ug/kg	
87-68-3	Hexachlorobutadiene	ND	43	12	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	430	44	ug/kg	
67-72-1	Hexachloroethane	ND	210	12	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	37.6	43	15	ug/kg	J
78-59-1	Isophorone	ND	86	12	ug/kg	
91-57-6	2-Methylnaphthalene	ND	86	24	ug/kg	
88-74-4	2-Nitroaniline	ND	210	19	ug/kg	
99-09-2	3-Nitroaniline	ND	210	17	ug/kg	
100-01-6	4-Nitroaniline	ND	210	17	ug/kg	
91-20-3	Naphthalene	ND	43	12	ug/kg	
98-95-3	Nitrobenzene	ND	86	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	86	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	26	ug/kg	
85-01-8	Phenanthrene	113	43	20	ug/kg	
129-00-0	Pyrene	158	43	16	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		21-116%
4165-62-2	Phenol-d5	57%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-20		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 66.5
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75%		24-136%
4165-60-0	Nitrobenzene-d5	63%		21-122%
321-60-8	2-Fluorobiphenyl	59%		30-117%
1718-51-0	Terphenyl-d14	90%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(6-8)		
<b>Lab Sample ID:</b> JB13726-20		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546		<b>Percent Solids:</b> 66.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67437.D	1	08/28/12	VDT	08/16/12	OP59048	G3G2391
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.0	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.0	0.75	ug/kg	
319-85-7	beta-BHC	ND	1.0	0.70	ug/kg	
319-86-8	delta-BHC	ND	1.0	0.58	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.0	0.45	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.0	0.65	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.0	0.51	ug/kg	
60-57-1	Dieldrin	ND	1.0	0.77	ug/kg	
72-54-8	4,4'-DDD	ND	1.0	0.51	ug/kg	
72-55-9	4,4'-DDE	ND	1.0	0.59	ug/kg	
50-29-3	4,4'-DDT	ND	1.0	0.73	ug/kg	
72-20-8	Endrin	ND	1.0	0.51	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.0	0.90	ug/kg	
7421-93-4	Endrin aldehyde	ND	1.0	0.94	ug/kg	
959-98-8	Endosulfan-I	ND	1.0	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.0	0.66	ug/kg	
76-44-8	Heptachlor	ND	1.0	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.0	0.49	ug/kg	
72-43-5	Methoxychlor	ND	2.0	0.70	ug/kg	
53494-70-5	Endrin ketone	ND	1.0	0.65	ug/kg	
8001-35-2	Toxaphene	ND	25	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		23-137%
877-09-8	Tetrachloro-m-xylene	78%		23-137%
2051-24-3	Decachlorobiphenyl	96%		22-160%
2051-24-3	Decachlorobiphenyl	82%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-10(6-8)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-20		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 66.5
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G70665.D	1	08/24/12	AZ	08/16/12	OP59047	G2G2448
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

### PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	49	13	ug/kg	
11104-28-2	Aroclor 1221	ND	49	30	ug/kg	
11141-16-5	Aroclor 1232	ND	49	25	ug/kg	
53469-21-9	Aroclor 1242	ND	49	16	ug/kg	
12672-29-6	Aroclor 1248	ND	49	15	ug/kg	
11097-69-1	Aroclor 1254	ND	49	23	ug/kg	
11096-82-5	Aroclor 1260	ND	49	16	ug/kg	
11100-14-4	Aroclor 1268	ND	49	14	ug/kg	
37324-23-5	Aroclor 1262	ND	49	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		22-141%
877-09-8	Tetrachloro-m-xylene	72%		22-141%
2051-24-3	Decachlorobiphenyl	63%		18-163%
2051-24-3	Decachlorobiphenyl	59%		18-163%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-10(6-8)	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13726-20	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 66.5
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	13000	79	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 3.2	3.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	5.5	3.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	99.8	32	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.52	0.32	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.79	0.79	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	4280	790	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	24.9	1.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 7.9	7.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	30.0	4.0	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	17400	79	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	203	3.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3030	790	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	320	2.4	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	1.8	0.097	mg/kg	2	08/28/12	08/28/12 JW	SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	15.2	6.3	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1600	1600	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 3.2	3.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.79	0.79	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1600	1600	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.6	1.6	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	29.1	7.9	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	124	3.2	mg/kg	1	08/24/12	08/24/12 BL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29258

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66215

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176532.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.5 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	0.13	ug/kg	
75-25-2	Bromoform	ND	6.0	0.18	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.33	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.27	ug/kg	
67-66-3	Chloroform	ND	6.0	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.22	ug/kg	
110-82-7	Cyclohexane	ND	6.0	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.0	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.0	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.0	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	0.31	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	0.22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	72	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.32	ug/kg	
76-13-1	Freon 113	ND	6.0	0.52	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.0	0.75	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	0.090	ug/kg	
79-20-9	Methyl Acetate	32.0	6.0	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	6.0	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	0.91	ug/kg	
75-09-2	Methylene chloride	ND	6.0	1.5	ug/kg	
100-42-5	Styrene	ND	6.0	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.0	0.21	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	0.21	ug/kg	
79-01-6	Trichloroethene	ND	6.0	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.21	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-122%
2037-26-5	Toluene-D8	105%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88054.D	1	08/23/12	OYA	08/16/12	OP59046	EM3553
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	50	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	52	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	620	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	620	38	ug/kg	
95-48-7	2-Methylphenol	ND	62	35	ug/kg	
	3&4-Methylphenol	ND	62	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	52	ug/kg	
87-86-5	Pentachlorophenol	ND	310	53	ug/kg	
108-95-2	Phenol	ND	62	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	29	ug/kg	
83-32-9	Acenaphthene	ND	31	9.0	ug/kg	
208-96-8	Acenaphthylene	ND	31	9.9	ug/kg	
98-86-2	Acetophenone	ND	160	5.5	ug/kg	
120-12-7	Anthracene	ND	31	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.1	ug/kg	
56-55-3	Benzo(a)anthracene	21.1	31	10	ug/kg	J
50-32-8	Benzo(a)pyrene	14.6	31	9.5	ug/kg	J
205-99-2	Benzo(b)fluoranthene	17.9	31	10	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	31	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	62	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	62	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	62	3.6	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	62	9.6	ug/kg	
106-47-8	4-Chloroaniline	ND	160	9.9	ug/kg	
86-74-8	Carbazole	ND	62	14	ug/kg	

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

# Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	62	9.8	ug/kg	
218-01-9	Chrysene	17.5	31	10	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	62	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	62	9.3	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	62	9.2	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	62	9.3	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	62	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	62	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	7.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	11	ug/kg	
132-64-9	Dibenzofuran	ND	62	9.2	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	62	6.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	62	15	ug/kg	
84-66-2	Diethyl phthalate	ND	62	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	62	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	62	27	ug/kg	
206-44-0	Fluoranthene	36.7	31	14	ug/kg	
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	62	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31	11	ug/kg	
78-59-1	Isophorone	ND	62	8.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	62	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	12	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.5	ug/kg	
98-95-3	Nitrobenzene	ND	62	9.0	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	62	7.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	30.5	31	14	ug/kg	J
129-00-0	Pyrene	38.6	31	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		21-116%
4165-62-2	Phenol-d5	36%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66%		24-136%
4165-60-0	Nitrobenzene-d5	42%		21-122%
321-60-8	2-Fluorobiphenyl	42%		30-117%
1718-51-0	Terphenyl-d14	76%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4218.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.72	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.72	0.47	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.72	0.37	ug/kg	
60-57-1	Dieldrin	ND	0.72	0.55	ug/kg	
72-54-8	4,4'-DDD	ND	0.72	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.72	0.42	ug/kg	
50-29-3	4,4'-DDT	ND	0.72	0.52	ug/kg	
72-20-8	Endrin	ND	0.72	0.37	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.65	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.68	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.35	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.44	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.35	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.50	ug/kg	
53494-70-5	Endrin ketone	ND	0.72	0.46	ug/kg	
8001-35-2	Toxaphene	ND	18	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		23-137%
877-09-8	Tetrachloro-m-xylene	104%		23-137%
2051-24-3	Decachlorobiphenyl	95%		22-160%
2051-24-3	Decachlorobiphenyl	114%		22-160%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	
<b>Lab Sample ID:</b> JB13726-21	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111513.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		22-141%
877-09-8	Tetrachloro-m-xylene	105%		22-141%
2051-24-3	Decachlorobiphenyl	103%		18-163%
2051-24-3	Decachlorobiphenyl	83%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(0-2)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-21	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6780	54	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.2	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	2.2	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	44.7	22	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.38	0.22	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.54	0.54	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1240	540	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	13.2	1.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	5.4	5.4	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	14.7	2.7	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	11900	54	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	32.3	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	1780	540	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	247	1.6	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.035	0.035	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	11.5	4.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.2	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.54	0.54	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	19.2	5.4	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	33.8	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(10-12)	
<b>Lab Sample ID:</b> JB13726-22	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 87.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176534.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.2 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.3	ug/kg	
71-43-2	Benzene	ND	1.4	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.8	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	6.8	0.14	ug/kg	
75-25-2	Bromoform	ND	6.8	0.21	ug/kg	
74-83-9	Bromomethane	ND	6.8	0.37	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.8	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.8	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.8	0.15	ug/kg	
75-00-3	Chloroethane	ND	6.8	0.31	ug/kg	
67-66-3	Chloroform	ND	6.8	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.8	0.25	ug/kg	
110-82-7	Cyclohexane	ND	6.8	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.8	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.8	0.26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.8	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.8	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.8	0.31	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.8	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.8	0.35	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.8	0.25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.8	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.8	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.8	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.8	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	81	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.36	ug/kg	
76-13-1	Freon 113	ND	6.8	0.59	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-11 ALT(10-12)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-22	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.2
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.8	0.85	ug/kg	
98-82-8	Isopropylbenzene	ND	6.8	0.10	ug/kg	
79-20-9	Methyl Acetate	17.3	6.8	3.5	ug/kg	
108-87-2	Methylcyclohexane	ND	6.8	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.8	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.8	1.7	ug/kg	
100-42-5	Styrene	ND	6.8	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.8	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	6.8	0.23	ug/kg	
108-88-3	Toluene	ND	1.4	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.8	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.8	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.8	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.8	0.24	ug/kg	
79-01-6	Trichloroethene	ND	6.8	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.8	0.41	ug/kg	
75-01-4	Vinyl chloride	ND	6.8	0.20	ug/kg	
	m,p-Xylene	ND	1.4	0.24	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	106%		66-132%

ND = Not detected      MDL - Method Detection Limit  
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 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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(10-12)	
<b>Lab Sample ID:</b> JB13726-22	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 87.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88083.D	1	08/24/12	OYA	08/16/12	OP59046	EM3554
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.9 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	54	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	640	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	640	39	ug/kg	
95-48-7	2-Methylphenol	ND	64	36	ug/kg	
	3&4-Methylphenol	ND	64	41	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	55	ug/kg	
108-95-2	Phenol	ND	64	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	16.3	32	9.3	ug/kg	J
208-96-8	Acenaphthylene	20.1	32	10	ug/kg	J
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	49.2	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	154	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	138	32	9.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	160	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	105	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	75.0	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	64	12	ug/kg	
85-68-7	Butyl benzyl phthalate	89.6	64	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	64	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	64	9.9	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	23.8	64	15	ug/kg	J

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-11 ALT(10-12)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-22	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.2
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	64	10	ug/kg	
218-01-9	Chrysene	173	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	64	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	64	9.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	64	9.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	64	9.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	64	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	64	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	28.9	32	11	ug/kg	J
132-64-9	Dibenzofuran	ND	64	9.5	ug/kg	
84-74-2	Di-n-butyl phthalate	48.8	64	7.1	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	64	16	ug/kg	
84-66-2	Diethyl phthalate	ND	64	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	64	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	213	64	28	ug/kg	
206-44-0	Fluoranthene	303	32	14	ug/kg	
86-73-7	Fluorene	16.5	32	10	ug/kg	J
118-74-1	Hexachlorobenzene	ND	64	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	83.2	32	11	ug/kg	
78-59-1	Isophorone	ND	64	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	64	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	ND	32	8.7	ug/kg	
98-95-3	Nitrobenzene	ND	64	9.2	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	64	7.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	224	32	15	ug/kg	
129-00-0	Pyrene	321	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		21-116%
4165-62-2	Phenol-d5	62%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(10-12)	
<b>Lab Sample ID:</b> JB13726-22	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 87.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

### ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	85%		24-136%
4165-60-0	Nitrobenzene-d5	69%		21-122%
321-60-8	2-Fluorobiphenyl	73%		30-117%
1718-51-0	Terphenyl-d14	80%		31-129%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(10-12)	
<b>Lab Sample ID:</b> JB13726-22	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 87.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4219.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2	5G4236.D	4	08/28/12	HQ	08/16/12	OP59050	G5G104

Run #	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.76	0.38	ug/kg	
319-84-6	alpha-BHC	ND	0.76	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.76	0.54	ug/kg	
319-86-8	delta-BHC	ND	0.76	0.45	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.76	0.35	ug/kg	
5103-71-9	alpha-Chlordane	11.5	0.76	0.50	ug/kg	
5103-74-2	gamma-Chlordane	13.2	0.76	0.39	ug/kg	
60-57-1	Dieldrin	2.4	0.76	0.59	ug/kg	
72-54-8	4,4'-DDD	6.6	0.76	0.39	ug/kg	
72-55-9	4,4'-DDE	8.7	0.76	0.45	ug/kg	
50-29-3	4,4'-DDT	122 <sup>a</sup>	3.1	2.2	ug/kg	
72-20-8	Endrin	ND	0.76	0.39	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.76	0.69	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.76	0.72	ug/kg	
959-98-8	Endosulfan-I	ND	0.76	0.37	ug/kg	
33213-65-9	Endosulfan-II	ND	0.76	0.50	ug/kg	
76-44-8	Heptachlor	ND	0.76	0.47	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.76	0.38	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.54	ug/kg	
53494-70-5	Endrin ketone	ND	0.76	0.50	ug/kg	
8001-35-2	Toxaphene	ND	19	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%	102%	23-137%
877-09-8	Tetrachloro-m-xylene	114%	123%	23-137%
2051-24-3	Decachlorobiphenyl	118%	125%	22-160%
2051-24-3	Decachlorobiphenyl	121%	152%	22-160%

(a) Result is from Run# 2

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(10-12)	
<b>Lab Sample ID:</b> JB13726-22	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 87.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111514.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	9.9	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	13	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		22-141%
877-09-8	Tetrachloro-m-xylene	121%		22-141%
2051-24-3	Decachlorobiphenyl	93%		18-163%
2051-24-3	Decachlorobiphenyl	109%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-11 ALT(10-12)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-22	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6600	57	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Arsenic	7.4	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Barium	260	23	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Beryllium	0.39	0.23	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Cadmium	2.6	0.57	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Calcium	3980	570	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Chromium	23.0	1.1	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Cobalt	< 5.7	5.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Copper	86.7	2.9	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Iron	13700	57	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Lead	837	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Magnesium	2700	570	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Manganese	264	1.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Mercury	0.55	0.037	mg/kg	1	08/28/12	08/28/12	JW	SW846 7471B <sup>2</sup> SW846 7471B <sup>4</sup>
Nickel	18.9	4.6	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Potassium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Selenium	< 2.3	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Silver	0.90	0.57	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Vanadium	37.2	5.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Zinc	588	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-23	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.6
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176535.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

	Initial Weight
Run #1	4.4 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.6	12	2.1	ug/kg	J
71-43-2	Benzene	ND	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	1.0	6.2	0.15	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.2	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.33	ug/kg	
76-13-1	Freon 113	ND	6.2	0.53	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-23	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.6
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.77	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.092	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.93	ug/kg	
75-09-2	Methylene chloride	ND	6.2	1.6	ug/kg	
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	0.48	1.2	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	1.3	6.2	0.22	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	ND	1.2	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	98%		70-122%
2037-26-5	Toluene-D8	107%		81-127%
460-00-4	4-Bromofluorobenzene	106%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-23	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.6
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88056.D	1	08/23/12	OYA	08/16/12	OP59046	EM3553
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	50	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	52	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	620	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	620	38	ug/kg	
95-48-7	2-Methylphenol	ND	62	36	ug/kg	
	3&4-Methylphenol	ND	62	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	53	ug/kg	
87-86-5	Pentachlorophenol	ND	310	53	ug/kg	
108-95-2	Phenol	ND	62	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	29	ug/kg	
83-32-9	Acenaphthene	ND	31	9.0	ug/kg	
208-96-8	Acenaphthylene	ND	31	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.5	ug/kg	
120-12-7	Anthracene	15.3	31	11	ug/kg	J
1912-24-9	Atrazine	ND	160	6.1	ug/kg	
56-55-3	Benzo(a)anthracene	32.5	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	22.4	31	9.5	ug/kg	J
205-99-2	Benzo(b)fluoranthene	22.4	31	10	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	13.6	31	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	31	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	62	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	62	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	62	3.6	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	62	9.7	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	ND	62	14	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(0-2) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-23	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.6
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	62	9.8	ug/kg	
218-01-9	Chrysene	28.7	31	11	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	62	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	62	9.4	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	62	9.3	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	62	9.4	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	62	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	62	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	7.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	11	ug/kg	
132-64-9	Dibenzofuran	ND	62	9.3	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	62	6.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	62	15	ug/kg	
84-66-2	Diethyl phthalate	ND	62	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	62	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	52.3	62	28	ug/kg	J
206-44-0	Fluoranthene	67.8	31	14	ug/kg	
86-73-7	Fluorene	ND	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	62	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.7	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	11.8	31	11	ug/kg	J
78-59-1	Isophorone	ND	62	8.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	62	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	12	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	ND	31	8.5	ug/kg	
98-95-3	Nitrobenzene	ND	62	9.0	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	62	7.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	69.5	31	14	ug/kg	
129-00-0	Pyrene	62.4	31	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		21-116%
4165-62-2	Phenol-d5	48%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-12(0-2) ALT	
<b>Lab Sample ID:</b> JB13726-23	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 91.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80%		24-136%
4165-60-0	Nitrobenzene-d5	57%		21-122%
321-60-8	2-Fluorobiphenyl	56%		30-117%
1718-51-0	Terphenyl-d14	95%		31-129%

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



# Report of Analysis

<b>Client Sample ID:</b> SB-12(0-2) ALT	
<b>Lab Sample ID:</b> JB13726-23	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 91.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111515.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

### PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	56%		22-141%
877-09-8	Tetrachloro-m-xylene	109%		22-141%
2051-24-3	Decachlorobiphenyl	65%		18-163%
2051-24-3	Decachlorobiphenyl	423% <sup>a</sup>		18-163%

(a) Outside control limits due to matrix interference.

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

## Report of Analysis

<b>Client Sample ID:</b> SB-12(0-2) ALT	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-23	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6070	56	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.2	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	3.0	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	32.5	22	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.37	0.22	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.56	0.56	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	823	560	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	16.1	1.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 5.6	5.6	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	14.5	2.8	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	11600	56	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	16.4	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	1510	560	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	245	1.7	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.033	0.033	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	14.1	4.5	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.2	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.56	0.56	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	24.2	5.6	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	25.8	2.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-12(10-12) ALT	
<b>Lab Sample ID:</b> JB13726-24	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 86.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176536.D	1	08/18/12	SJM	n/a	n/a	VI7129
Run #2							

Run #1	Initial Weight
Run #1	4.6 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.2	13	2.1	ug/kg	J
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.13	ug/kg	
75-25-2	Bromoform	ND	6.3	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.28	ug/kg	
67-66-3	Chloroform	ND	6.3	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.3	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.3	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	75	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.33	ug/kg	
76-13-1	Freon 113	ND	6.3	0.54	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(10-12) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-24	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.6
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	0.78	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.093	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.94	ug/kg	
75-09-2	Methylene chloride	ND	6.3	1.6	ug/kg	
100-42-5	Styrene	ND	6.3	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.3	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.3	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.3	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.3	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(10-12) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-24	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.6
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88057.D	1	08/23/12	OYA	08/16/12	OP59046	EM3553
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	55	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	660	40	ug/kg	
95-48-7	2-Methylphenol	ND	66	38	ug/kg	
	3&4-Methylphenol	ND	66	42	ug/kg	
88-75-5	2-Nitrophenol	ND	160	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	330	56	ug/kg	
108-95-2	Phenol	ND	66	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.5	ug/kg	
208-96-8	Acenaphthylene	ND	33	11	ug/kg	
98-86-2	Acetophenone	ND	160	5.8	ug/kg	
120-12-7	Anthracene	16.9	33	12	ug/kg	J
1912-24-9	Atrazine	ND	160	6.5	ug/kg	
56-55-3	Benzo(a)anthracene	30.9	33	11	ug/kg	J
50-32-8	Benzo(a)pyrene	19.0	33	10	ug/kg	J
205-99-2	Benzo(b)fluoranthene	19.1	33	11	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	66	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	66	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	66	3.8	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	66	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	11	ug/kg	
86-74-8	Carbazole	ND	66	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(10-12) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-24	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.6
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	66	10	ug/kg	
218-01-9	Chrysene	24.7	33	11	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	66	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	66	9.9	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	66	9.8	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	66	9.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	66	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	66	13	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	66	9.8	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	66	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	66	16	ug/kg	
84-66-2	Diethyl phthalate	ND	66	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	66	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	36.4	66	29	ug/kg	J
206-44-0	Fluoranthene	55.4	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	66	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.1	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	160	9.1	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	11	ug/kg	
78-59-1	Isophorone	ND	66	8.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.0	ug/kg	
98-95-3	Nitrobenzene	ND	66	9.5	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	66	8.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	20	ug/kg	
85-01-8	Phenanthrene	53.7	33	15	ug/kg	
129-00-0	Pyrene	50.3	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		21-116%
4165-62-2	Phenol-d5	31%		19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-12(10-12) ALT		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-24		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.6
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	46%		24-136%
4165-60-0	Nitrobenzene-d5	33%		21-122%
321-60-8	2-Fluorobiphenyl	33%		30-117%
1718-51-0	Terphenyl-d14	61%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-12(10-12) ALT	
<b>Lab Sample ID:</b> JB13726-24	<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 86.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4221.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.53	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.46	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.55	ug/kg	
72-54-8	4,4'-DDD	ND	0.71	0.36	ug/kg	
72-55-9	4,4'-DDE	ND	0.71	0.42	ug/kg	
50-29-3	4,4'-DDT	ND	0.71	0.52	ug/kg	
72-20-8	Endrin	ND	0.71	0.36	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.64	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.43	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.35	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.50	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.46	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		23-137%
877-09-8	Tetrachloro-m-xylene	120%		23-137%
2051-24-3	Decachlorobiphenyl	113%		22-160%
2051-24-3	Decachlorobiphenyl	123%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-12(10-12) ALT	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13726-24	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.6
<b>Method:</b>	SW846 8082A SW846 3546		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111516.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		22-141%
877-09-8	Tetrachloro-m-xylene	112%		22-141%
2051-24-3	Decachlorobiphenyl	100%		18-163%
2051-24-3	Decachlorobiphenyl	87%		18-163%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-12(10-12) ALT	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13726-24	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.6
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	11200	57	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	3.1	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	55.8	23	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.57	0.23	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.57	0.57	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	1890	570	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	24.1	1.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	8.4	5.7	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	14.7	2.9	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	19000	57	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	7.3	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	3110	570	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	425	1.7	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	0.28	0.035	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	18.6	4.6	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	1560	1100	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.3	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.57	0.57	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1100	1100	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.1	1.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	32.9	5.7	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	35.0	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-13(0-2)		
<b>Lab Sample ID:</b> JB13726-25		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 88.8
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A186092.D	1	08/22/12	CL	n/a	n/a	VA6977
Run #2							

Run #1	Initial Weight
Run #1	4.5 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.1	ug/kg	
71-43-2	Benzene	2.5	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.13	ug/kg	
75-25-2	Bromoform	ND	6.3	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.28	ug/kg	
67-66-3	Chloroform	ND	6.3	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.3	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.3	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.33	ug/kg	
76-13-1	Freon 113	ND	6.3	0.54	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-13(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-25	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.8
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	0.78	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.093	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.94	ug/kg	
75-09-2	Methylene chloride	ND	6.3	1.6	ug/kg	
100-42-5	Styrene	ND	6.3	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.3	0.22	ug/kg	
108-88-3	Toluene	2.7	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.3	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.3	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.3	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.18	ug/kg	
	m,p-Xylene	0.56	1.3	0.22	ug/kg	J
95-47-6	o-Xylene	ND	1.3	0.17	ug/kg	
1330-20-7	Xylene (total)	0.56	1.3	0.17	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-122%
2037-26-5	Toluene-D8	113%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-13(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-25	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.8
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88086.D	1	08/24/12	OYA	08/16/12	OP59046	EM3554
Run #2	M88071.D	5	08/24/12	OYA	08/16/12	OP59046	EM3554

Run #	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2	35.4 g	1.0 ml

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	640	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	640	39	ug/kg	
95-48-7	2-Methylphenol	ND	64	36	ug/kg	
	3&4-Methylphenol	ND	64	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	54	ug/kg	
108-95-2	Phenol	ND	64	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	576	32	9.2	ug/kg	
208-96-8	Acenaphthylene	300	32	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	1320	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	2060	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	1580	32	9.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	2100	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	867	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	542	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	64	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	64	18	ug/kg	
92-52-4	1,1'-Biphenyl	102	64	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	64	9.9	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	706	64	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-13(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-25	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.8
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	64	10	ug/kg	
218-01-9	Chrysene	2260	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	64	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	64	9.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	64	9.4	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	64	9.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	64	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	64	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	290	32	11	ug/kg	
132-64-9	Dibenzofuran	645	64	9.4	ug/kg	
84-74-2	Di-n-butyl phthalate	35.8	64	7.1	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	64	15	ug/kg	
84-66-2	Diethyl phthalate	ND	64	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	64	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	64	28	ug/kg	
206-44-0	Fluoranthene	5920 <sup>a</sup>	160	70	ug/kg	
86-73-7	Fluorene	671	32	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	64	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	820	32	11	ug/kg	
78-59-1	Isophorone	ND	64	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	414	64	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	874	32	8.7	ug/kg	
98-95-3	Nitrobenzene	ND	64	9.2	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	64	7.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	7150 <sup>a</sup>	160	72	ug/kg	
129-00-0	Pyrene	4710 <sup>a</sup>	160	61	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	58%	21-116%
4165-62-2	Phenol-d5	56%	59%	19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-13(0-2)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-25		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 88.8
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73%	77%	24-136%
4165-60-0	Nitrobenzene-d5	59%	61%	21-122%
321-60-8	2-Fluorobiphenyl	66%	72%	30-117%
1718-51-0	Terphenyl-d14	65%	69%	31-129%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> SB-13(0-2)	
<b>Lab Sample ID:</b> JB13726-25	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 88.8
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4222.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.75	0.37	ug/kg	
319-84-6	alpha-BHC	ND	0.75	0.56	ug/kg	
319-85-7	beta-BHC	ND	0.75	0.52	ug/kg	
319-86-8	delta-BHC	ND	0.75	0.44	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.75	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.75	0.49	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.75	0.38	ug/kg	
60-57-1	Dieldrin	ND	0.75	0.58	ug/kg	
72-54-8	4,4'-DDD	ND	0.75	0.38	ug/kg	
72-55-9	4,4'-DDE	ND	0.75	0.44	ug/kg	
50-29-3	4,4'-DDT <sup>a</sup>	31.9	0.75	0.55	ug/kg	
72-20-8	Endrin	ND	0.75	0.38	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.75	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.75	0.71	ug/kg	
959-98-8	Endosulfan-I	ND	0.75	0.36	ug/kg	
33213-65-9	Endosulfan-II	ND	0.75	0.49	ug/kg	
76-44-8	Heptachlor	ND	0.75	0.46	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.75	0.37	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.53	ug/kg	
53494-70-5	Endrin ketone	ND	0.75	0.48	ug/kg	
8001-35-2	Toxaphene	ND	19	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%		23-137%
877-09-8	Tetrachloro-m-xylene	98%		23-137%
2051-24-3	Decachlorobiphenyl	175% <sup>b</sup>		22-160%
2051-24-3	Decachlorobiphenyl	83%		22-160%

(a) Reported from 1st signal. % RSD of initial calibration on 2nd signal exceed method criteria (20 %) so using for confirmation only.

(b) Outside control limits due to matrix interference.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-13(0-2)	
<b>Lab Sample ID:</b> JB13726-25	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 88.8
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111517.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.7	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	138%		22-141%
877-09-8	Tetrachloro-m-xylene	330% <sup>a</sup>		22-141%
2051-24-3	Decachlorobiphenyl	62%		18-163%
2051-24-3	Decachlorobiphenyl	310% <sup>a</sup>		18-163%

(a) Outside control limits due to matrix interference.

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

## Report of Analysis

<b>Client Sample ID:</b> SB-13(0-2)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-25	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.8
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9330	59	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Arsenic	14.2	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Barium	492	23	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Beryllium	0.66	0.23	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Cadmium	1.7	0.59	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Calcium	10600	590	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Chromium	22.9	1.2	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Cobalt	< 5.9	5.9	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Copper	130	2.9	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Iron	18700	59	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Lead	847	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Magnesium	2950	590	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Manganese	363	1.8	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Mercury	0.45	0.035	mg/kg	1	08/28/12	08/28/12	JW	SW846 7471B <sup>2</sup> SW846 7471B <sup>4</sup>
Nickel	16.6	4.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Potassium	< 1200	1200	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Selenium	2.6	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Silver	1.0	0.59	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Vanadium	28.7	5.9	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Zinc	697	2.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-13(12-14)		
<b>Lab Sample ID:</b> JB13726-26		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 77.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A186093.D	1	08/22/12	CL	n/a	n/a	VA6977
Run #2							

Run #1	Initial Weight
Run #1	4.5 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	2.4	ug/kg	
71-43-2	Benzene	0.44	1.4	0.17	ug/kg	J
74-97-5	Bromochloromethane	ND	7.2	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	7.2	0.15	ug/kg	
75-25-2	Bromoform	ND	7.2	0.22	ug/kg	
74-83-9	Bromomethane	ND	7.2	0.39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.4	ug/kg	
75-15-0	Carbon disulfide	ND	7.2	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.2	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	7.2	0.16	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.33	ug/kg	
67-66-3	Chloroform	ND	7.2	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.2	0.27	ug/kg	
110-82-7	Cyclohexane	ND	7.2	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.2	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.2	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.2	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.2	0.25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.2	0.33	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.2	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.2	0.37	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.2	0.26	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.2	0.34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.2	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.2	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.2	0.22	ug/kg	
123-91-1	1,4-Dioxane	ND	180	86	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.38	ug/kg	
76-13-1	Freon 113	ND	7.2	0.62	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b> SB-13(12-14)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-26		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 77.0
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.2	0.90	ug/kg	
98-82-8	Isopropylbenzene	ND	7.2	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.2	3.8	ug/kg	
108-87-2	Methylcyclohexane	ND	7.2	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.2	1.1	ug/kg	
75-09-2	Methylene chloride	ND	7.2	1.8	ug/kg	
100-42-5	Styrene	ND	7.2	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.2	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	7.2	0.25	ug/kg	
108-88-3	Toluene	0.58	1.4	0.15	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	7.2	0.24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.2	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.2	0.25	ug/kg	
79-01-6	Trichloroethene	ND	7.2	0.25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.2	0.43	ug/kg	
75-01-4	Vinyl chloride	ND	7.2	0.21	ug/kg	
	m,p-Xylene	ND	1.4	0.25	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	114%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-13(12-14)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-26	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	77.0
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88058.D	1	08/23/12	OYA	08/16/12	OP59046	EM3553
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	740	45	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	45	ug/kg	
95-48-7	2-Methylphenol	ND	74	42	ug/kg	
	3&4-Methylphenol	ND	74	47	ug/kg	
88-75-5	2-Nitrophenol	ND	190	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	63	ug/kg	
87-86-5	Pentachlorophenol	ND	370	63	ug/kg	
108-95-2	Phenol	ND	74	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	ND	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.5	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	11	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-13(12-14)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-26	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	77.0
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	ND	37	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	33	ug/kg	
206-44-0	Fluoranthene	ND	37	16	ug/kg	
86-73-7	Fluorene	ND	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	13	ug/kg	
78-59-1	Isophorone	ND	74	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	ND	37	17	ug/kg	
129-00-0	Pyrene	ND	37	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		21-116%
4165-62-2	Phenol-d5	65%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-13(12-14)	
<b>Lab Sample ID:</b> JB13726-26	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 77.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%		24-136%
4165-60-0	Nitrobenzene-d5	71%		21-122%
321-60-8	2-Fluorobiphenyl	69%		30-117%
1718-51-0	Terphenyl-d14	87%		31-129%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-13(12-14)	
<b>Lab Sample ID:</b> JB13726-26	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 77.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4223.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

### Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.85	0.42	ug/kg	
319-84-6	alpha-BHC	ND	0.85	0.64	ug/kg	
319-85-7	beta-BHC	ND	0.85	0.60	ug/kg	
319-86-8	delta-BHC	ND	0.85	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.85	0.39	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.85	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.85	0.43	ug/kg	
60-57-1	Dieldrin	ND	0.85	0.66	ug/kg	
72-54-8	4,4'-DDD	ND	0.85	0.43	ug/kg	
72-55-9	4,4'-DDE	ND	0.85	0.50	ug/kg	
50-29-3	4,4'-DDT	ND	0.85	0.62	ug/kg	
72-20-8	Endrin	ND	0.85	0.43	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.85	0.77	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.85	0.80	ug/kg	
959-98-8	Endosulfan-I	ND	0.85	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.85	0.56	ug/kg	
76-44-8	Heptachlor	ND	0.85	0.52	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.85	0.42	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.60	ug/kg	
53494-70-5	Endrin ketone	ND	0.85	0.55	ug/kg	
8001-35-2	Toxaphene	ND	21	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		23-137%
877-09-8	Tetrachloro-m-xylene	97%		23-137%
2051-24-3	Decachlorobiphenyl	84%		22-160%
2051-24-3	Decachlorobiphenyl	126%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-13(12-14)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-26		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 77.0
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111518.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	42	11	ug/kg	
11104-28-2	Aroclor 1221	ND	42	26	ug/kg	
11141-16-5	Aroclor 1232	ND	42	21	ug/kg	
53469-21-9	Aroclor 1242	ND	42	13	ug/kg	
12672-29-6	Aroclor 1248	ND	42	13	ug/kg	
11097-69-1	Aroclor 1254	ND	42	20	ug/kg	
11096-82-5	Aroclor 1260	ND	42	14	ug/kg	
11100-14-4	Aroclor 1268	ND	42	12	ug/kg	
37324-23-5	Aroclor 1262	ND	42	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		22-141%
877-09-8	Tetrachloro-m-xylene	100%		22-141%
2051-24-3	Decachlorobiphenyl	163%		18-163%
2051-24-3	Decachlorobiphenyl	115%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> SB-13(12-14)	
<b>Lab Sample ID:</b> JB13726-26	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
	<b>Percent Solids:</b> 77.0
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	18200	67	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Antimony	< 2.7	2.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Arsenic	3.1	2.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Barium	154	27	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Beryllium	0.88	0.27	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Cadmium	< 0.67	0.67	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Calcium	4540	670	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Chromium	42.3	1.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Cobalt	10.8	6.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Copper	30.6	3.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Iron	27600	67	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Lead	9.8	2.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Magnesium	9010	670	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Manganese	765	2.0	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Mercury	< 0.043	0.043	mg/kg	1	08/28/12	08/28/12	JW	SW846 7471B <sup>2</sup> SW846 7471B <sup>4</sup>
Nickel	36.1	5.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Potassium	5550	1300	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Selenium	< 2.7	2.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Silver	< 0.67	0.67	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Sodium	< 1300	1300	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Thallium	< 1.3	1.3	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Vanadium	51.9	6.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>
Zinc	80.2	2.7	mg/kg	1	08/23/12	08/24/12	ND	SW846 6010C <sup>1</sup> SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-14(0-2)		
<b>Lab Sample ID:</b> JB13726-27		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 86.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A186094.D	1	08/22/12	CL	n/a	n/a	VA6977
Run #2							

Run #1	Initial Weight
Run #1	4.5 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.2	ug/kg	
71-43-2	Benzene	2.3	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.14	ug/kg	
75-25-2	Bromoform	ND	6.4	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.29	ug/kg	
67-66-3	Chloroform	ND	6.4	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	77	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.4	0.55	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-14(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-27	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.2
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.4	0.80	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	0.096	ug/kg	
79-20-9	Methyl Acetate	ND	6.4	3.4	ug/kg	
108-87-2	Methylcyclohexane	ND	6.4	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	0.97	ug/kg	
75-09-2	Methylene chloride	ND	6.4	1.6	ug/kg	
100-42-5	Styrene	ND	6.4	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	0.22	ug/kg	
108-88-3	Toluene	1.8	1.3	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.4	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.19	ug/kg	
	m,p-Xylene	0.37	1.3	0.22	ug/kg	J
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	0.37	1.3	0.18	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
17060-07-0	1,2-Dichloroethane-D4	97%		70-122%
2037-26-5	Toluene-D8	113%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-14(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-27	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.2
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88085.D	1	08/24/12	OYA	08/16/12	OP59046	EM3554
Run #2	M88070.D	2	08/24/12	OYA	08/16/12	OP59046	EM3554

Run #	Initial Weight	Final Volume
Run #1	35.7 g	1.0 ml
Run #2	35.7 g	1.0 ml

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	52	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	55	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	650	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	650	40	ug/kg	
95-48-7	2-Methylphenol	ND	65	37	ug/kg	
	3&4-Methylphenol	ND	65	41	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	55	ug/kg	
87-86-5	Pentachlorophenol	ND	320	56	ug/kg	
108-95-2	Phenol	ND	65	34	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	31	ug/kg	
83-32-9	Acenaphthene	394	32	9.4	ug/kg	
208-96-8	Acenaphthylene	65.8	32	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.7	ug/kg	
120-12-7	Anthracene	802	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.4	ug/kg	
56-55-3	Benzo(a)anthracene	1190	32	11	ug/kg	
50-32-8	Benzo(a)pyrene	850	32	9.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	977	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	457	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	453	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	65	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	65	19	ug/kg	
92-52-4	1,1'-Biphenyl	53.6	65	3.8	ug/kg	J
100-52-7	Benzaldehyde	ND	160	7.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	65	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	424	65	15	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-14(0-2)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-27	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.2
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	65	10	ug/kg	
218-01-9	Chrysene	1110	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	65	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	65	9.8	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	65	9.7	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	65	9.8	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	65	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	65	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	8.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	140	32	11	ug/kg	
132-64-9	Dibenzofuran	322	65	9.7	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	65	7.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	65	16	ug/kg	
84-66-2	Diethyl phthalate	ND	65	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	65	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	65	29	ug/kg	
206-44-0	Fluoranthene	2970	32	14	ug/kg	
86-73-7	Fluorene	434	32	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	65	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	9.0	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	320	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	9.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	434	32	11	ug/kg	
78-59-1	Isophorone	ND	65	8.7	ug/kg	
91-57-6	2-Methylnaphthalene	204	65	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	696	32	8.9	ug/kg	
98-95-3	Nitrobenzene	ND	65	9.4	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	65	7.9	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	3550 <sup>a</sup>	65	30	ug/kg	
129-00-0	Pyrene	2490	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	54%	21-116%
4165-62-2	Phenol-d5	50%	54%	19-117%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-14(0-2)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-27		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.2
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72%	79%	24-136%
4165-60-0	Nitrobenzene-d5	57%	61%	21-122%
321-60-8	2-Fluorobiphenyl	61%	64%	30-117%
1718-51-0	Terphenyl-d14	71%	70%	31-129%

(a) Result is from Run# 2

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

# Report of Analysis

<b>Client Sample ID:</b> SB-14(0-2)	
<b>Lab Sample ID:</b> JB13726-27	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546	<b>Percent Solids:</b> 86.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4224.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	14.4 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.81	0.40	ug/kg	
319-84-6	alpha-BHC	ND	0.81	0.60	ug/kg	
319-85-7	beta-BHC	ND	0.81	0.57	ug/kg	
319-86-8	delta-BHC	ND	0.81	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.81	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.81	0.52	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.81	0.41	ug/kg	
60-57-1	Dieldrin	ND	0.81	0.62	ug/kg	
72-54-8	4,4'-DDD	ND	0.81	0.41	ug/kg	
72-55-9	4,4'-DDE	5.9	0.81	0.48	ug/kg	
50-29-3	4,4'-DDT	39.5	0.81	0.59	ug/kg	
72-20-8	Endrin	ND	0.81	0.41	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.81	0.73	ug/kg	
7421-93-4	Endrin aldehyde	13.0	0.81	0.76	ug/kg	
959-98-8	Endosulfan-I	ND	0.81	0.39	ug/kg	
33213-65-9	Endosulfan-II	ND	0.81	0.53	ug/kg	
76-44-8	Heptachlor	ND	0.81	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.81	0.40	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.57	ug/kg	
53494-70-5	Endrin ketone	ND	0.81	0.52	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		23-137%
877-09-8	Tetrachloro-m-xylene	111%		23-137%
2051-24-3	Decachlorobiphenyl	150%		22-160%
2051-24-3	Decachlorobiphenyl	150%		22-160%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-14(0-2)		
<b>Lab Sample ID:</b> JB13726-27		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546		<b>Percent Solids:</b> 86.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111519.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	14.9 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	11	ug/kg	
37324-23-5	Aroclor 1262	ND	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		22-141%
877-09-8	Tetrachloro-m-xylene	158% <sup>a</sup>		22-141%
2051-24-3	Decachlorobiphenyl	121%		18-163%
2051-24-3	Decachlorobiphenyl	176% <sup>a</sup>		18-163%

(a) Outside control limits due to matrix interference.

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

## Report of Analysis

<b>Client Sample ID:</b> SB-14(0-2)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-27	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.2
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8740	58	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.3	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	16.0	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	2790	23	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.60	0.23	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	1.4	0.58	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	13300	580	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	21.7	1.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	< 5.8	5.8	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	107	2.9	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	15600	58	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	1310	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	2030	580	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	245	1.7	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	1.8	0.19	mg/kg	5	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	14.3	4.6	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	< 1200	1200	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	3.3	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	3.1	0.58	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1200	1200	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.2	1.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	26.9	5.8	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	1140	2.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-14(12-14)	
<b>Lab Sample ID:</b> JB13726-28	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 80.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I176618.D	1	08/22/12	SJM	n/a	n/a	VI7133
Run #2							

	Initial Weight
Run #1	4.4 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10.6	14	2.4	ug/kg	J
71-43-2	Benzene	0.52	1.4	0.17	ug/kg	J
74-97-5	Bromochloromethane	ND	7.1	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	7.1	0.15	ug/kg	
75-25-2	Bromoform	ND	7.1	0.21	ug/kg	
74-83-9	Bromomethane	ND	7.1	0.39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.4	ug/kg	
75-15-0	Carbon disulfide	ND	7.1	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.1	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	7.1	0.15	ug/kg	
75-00-3	Chloroethane	ND	7.1	0.32	ug/kg	
67-66-3	Chloroform	ND	7.1	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.1	0.26	ug/kg	
110-82-7	Cyclohexane	ND	7.1	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.1	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.1	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.1	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.1	0.25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.1	0.32	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.1	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.1	0.36	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.1	0.26	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.1	0.34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.1	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.1	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.1	0.22	ug/kg	
123-91-1	1,4-Dioxane	ND	180	84	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.37	ug/kg	
76-13-1	Freon 113	ND	7.1	0.61	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-14(12-14)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-28	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	80.4
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.1	0.88	ug/kg	
98-82-8	Isopropylbenzene	ND	7.1	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.1	3.7	ug/kg	
108-87-2	Methylcyclohexane	ND	7.1	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.33	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.1	1.1	ug/kg	
75-09-2	Methylene chloride	ND	7.1	1.8	ug/kg	
100-42-5	Styrene	ND	7.1	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.1	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	7.1	0.24	ug/kg	
108-88-3	Toluene	ND	1.4	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.1	0.23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.1	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.1	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.1	0.25	ug/kg	
79-01-6	Trichloroethene	ND	7.1	0.25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.1	0.42	ug/kg	
75-01-4	Vinyl chloride	ND	7.1	0.20	ug/kg	
	m,p-Xylene	ND	1.4	0.25	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-14(12-14)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-28	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	80.4
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M88059.D	1	08/23/12	OYA	08/16/12	OP59046	EM3553
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	43	ug/kg	
95-48-7	2-Methylphenol	ND	71	40	ug/kg	
	3&4-Methylphenol	ND	71	45	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	350	60	ug/kg	
87-86-5	Pentachlorophenol	ND	350	61	ug/kg	
108-95-2	Phenol	ND	71	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	33	ug/kg	
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	7.0	ug/kg	
56-55-3	Benzo(a)anthracene	20.6	35	12	ug/kg	J
50-32-8	Benzo(a)pyrene	14.1	35	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	17.8	35	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	71	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	71	16	ug/kg	

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

## Report of Analysis

<b>Client Sample ID:</b>	SB-14(12-14)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13726-28	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	80.4
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	11	ug/kg	
218-01-9	Chrysene	16.6	35	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	71	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	180	9.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	71	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	7.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	17	ug/kg	
84-66-2	Diethyl phthalate	ND	71	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	31	ug/kg	
206-44-0	Fluoranthene	36.2	35	16	ug/kg	
86-73-7	Fluorene	ND	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	71	9.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.7	ug/kg	
98-95-3	Nitrobenzene	ND	71	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	22.7	35	16	ug/kg	J
129-00-0	Pyrene	35.9	35	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		21-116%
4165-62-2	Phenol-d5	43%		19-117%

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

**Report of Analysis**

<b>Client Sample ID:</b> SB-14(12-14)	
<b>Lab Sample ID:</b> JB13726-28	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 80.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59%		24-136%
4165-60-0	Nitrobenzene-d5	47%		21-122%
321-60-8	2-Fluorobiphenyl	45%		30-117%
1718-51-0	Terphenyl-d14	73%		31-129%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-14(12-14)		
<b>Lab Sample ID:</b> JB13726-28		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3546		<b>Percent Solids:</b> 80.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4227.D	1	08/28/12	HQ	08/16/12	OP59050	G5G104
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.76	0.38	ug/kg	
319-84-6	alpha-BHC	ND	0.76	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.76	0.53	ug/kg	
319-86-8	delta-BHC	ND	0.76	0.44	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.76	0.35	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.76	0.49	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.76	0.39	ug/kg	
60-57-1	Dieldrin	ND	0.76	0.59	ug/kg	
72-54-8	4,4'-DDD	ND	0.76	0.39	ug/kg	
72-55-9	4,4'-DDE	ND	0.76	0.45	ug/kg	
50-29-3	4,4'-DDT	ND	0.76	0.56	ug/kg	
72-20-8	Endrin	ND	0.76	0.39	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.76	0.69	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.76	0.72	ug/kg	
959-98-8	Endosulfan-I	ND	0.76	0.37	ug/kg	
33213-65-9	Endosulfan-II	ND	0.76	0.50	ug/kg	
76-44-8	Heptachlor	ND	0.76	0.46	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.76	0.37	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.54	ug/kg	
53494-70-5	Endrin ketone	ND	0.76	0.49	ug/kg	
8001-35-2	Toxaphene	ND	19	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		23-137%
877-09-8	Tetrachloro-m-xylene	102%		23-137%
2051-24-3	Decachlorobiphenyl	92%		22-160%
2051-24-3	Decachlorobiphenyl	99%		22-160%

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

## Report of Analysis

<b>Client Sample ID:</b> SB-14(12-14)	
<b>Lab Sample ID:</b> JB13726-28	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3546	<b>Percent Solids:</b> 80.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111520.D	1	08/17/12	GAD	08/16/12	OP59049	GEF4555
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	9.9	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	12	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		22-141%
877-09-8	Tetrachloro-m-xylene	104%		22-141%
2051-24-3	Decachlorobiphenyl	93%		18-163%
2051-24-3	Decachlorobiphenyl	89%		18-163%

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

# Report of Analysis

<b>Client Sample ID:</b> SB-14(12-14)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13726-28	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.4
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	15700	63	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Antimony	< 2.5	2.5	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic	2.6	2.5	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	76.4	25	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.75	0.25	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.63	0.63	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Calcium	2190	630	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium	33.8	1.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt	8.6	6.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	24.4	3.2	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Iron	22000	63	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	10.9	2.5	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Magnesium	6190	630	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Manganese	391	1.9	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Mercury	< 0.041	0.041	mg/kg	1	08/28/12	08/28/12	JW SW846 7471B <sup>2</sup>	SW846 7471B <sup>4</sup>
Nickel	29.6	5.1	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Potassium	2370	1300	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.5	2.5	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.63	0.63	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Sodium	< 1300	1300	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.3	1.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Vanadium	43.9	6.3	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	74.1	2.5	mg/kg	1	08/23/12	08/24/12	ND SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA29256

(2) Instrument QC Batch: MA29270

(3) Prep QC Batch: MP66208

(4) Prep QC Batch: MP66298

RL = Reporting Limit

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name <b>FLAMING LEE SAUC</b>		Project Name <b>ROCKROSE FLEET SITE</b>				V82697C V82707C PFCB M79C										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address <b>158 W 29th ST</b>		Street <b>JACKSON AVE</b>														
City State Zip <b>NY NY</b>		Billing Information (if different from Report to) Company Name														
Project Contact <b>RATUL BHATIA</b>		Project #														
Phone # <b>212 675 3225</b>		Client Purchase Order #														
Sampler(s) Name(s)		Project Manager				Number of preserved Bottles										LAB USE ONLY
Accutest Sample #	Field ID / Point of Collection	MECH/ID Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	NI/CS	H2SO4	NONE	DI Water	MEOH	ENCORE	
-13	SB-7(0-2)		8/10/12	1240	RB	SO	3									
-14	SB-7(2-14)		8/10/12	1300												
-15	SB-8(0-2)		8/8/12	1300												
-16	SB-8(6-8)		8/8/12	1310												
-17	SB-9(0-2)		8/8/12	1040												
-18	SB-9(6-8)		8/8/12	1050												
-19	SB-10(0-2)		8/9/12	1150												
-20	SB-10(6-8)		8/8/12	1205												
-21	SB-11 ALT(0-2)		8/10/12	1400												
-22	SB-11 ALT(10-12)		8/10/12	1410												
-23	SB-12(0-2) ALT		8/13/12	1400												
-24	SB-12(10-12) ALT		8/13/12	1420												
Turnaround Time (Business days)		Approved By (Accutest PM) / Date:				Data Deliverable Information										Comments / Special Instructions
<input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> Std. 10 Business Days (by Contract only) <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink						<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Other										
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished By Sampler: <b>1</b>		Date Time: <b>8/14/12</b>		Received By: <b>Chris Law</b>		Date Time: <b>1630 8/14/12</b>		Relinquished By: <b>2</b>		Date Time: <b>1630 8/14/12</b>		Received By: <b>Paula</b>				
Relinquished by: <b>3</b>		Date Time:		Received By: <b>3</b>		Date Time:		Relinquished By: <b>4</b>		Date Time:		Received By: <b>4</b>				
Relinquished by: <b>5</b>		Date Time:		Received By: <b>5</b>		Date Time:		Custody Seal #		Preserved where applicable		On Ice <input checked="" type="checkbox"/>		Cooler Temp: <b>6°C</b>		

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Client / Reporting Information		Project Information				Requested Analysis ( see TEST CODE sheet)												Matrix Codes	
Company Name <b>FLORIAN LEE SHAW</b>		Project Name <b>ROCKROSE PLEET SITE</b>				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>182607C</b> <b>182707C</b> <b>182807C</b> <b>182907C</b> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>182607C</b> <b>182707C</b> <b>182807C</b> <b>182907C</b> </div> </div>												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address <b>158 W 29th ST</b>		Street <b>JACKSON AVE</b>																Billing Information ( if different from Report to )	LAB USE ONLY
City State Zip <b>NY NY 10501</b>		City State <b>LONG ISLAND LI2</b>																Company Name	
Project Contact <b>RAVUL BHATTA</b>		Project #																Street Address	
Phone # Fax # <b>212-675-3225</b>		Client Purchase Order #																City State Zip	
Sampler(s) Name(s)		Project Manager				Attention:													
Account Sample #	Field ID / Point of Collection	MEOH/DI Val #	Collection			Matrix	# of bottles	Number of preserved Bottles											
			Date	Time	Sampled by			HCl	NiOH	HNO3	H2SO4	None	DI Water	MEOH		ENCORE			
-25	SB-13(10-2)		8/10/12	1530	RB SO	3													
-26	SB-13(12-4)		8/10/12	1535	RB SO	3													
-27	SB-14(10-2)		8/10/12	1540	RB SO	3													
-28	SB-14(12-14)		8/10/12	1545	RB SO	3													
Turnaround Time ( Business days )		Approved By (Accutest PM): / Date:				Data Deliverable Information						Comments / Special Instructions							
<input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> Std. 10 Business Days ( by Contract only ) <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink						<input type="checkbox"/> Commercial "A" ( Level 1 ) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" ( Level 2 ) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 ( Level 3+4 ) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Other													
Sample Custody must be documented below each time samples change possession, including courier delivery.																			
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12				
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12				
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12				
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12				
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12	Relinquished By: <i>[Signature]</i>	Date Time: 8/14/12	Received By: <i>[Signature]</i>	Date Time: 8/14/12				
Custody Seal #	Intact <input type="checkbox"/>	Not intact <input type="checkbox"/>	Preserved where applicable <input type="checkbox"/>	Bin Ice <input type="checkbox"/>	Cooler Temp. 6°C														

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB13726      **Client:** FLS      **Project:** ROCK ROSE FLEET SITE  
**Date / Time Received:** 8/14/2012 1630      **Delivery Method:** Accutest Courier      **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (6/6): 0

<b>Cooler Security</b>		<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<b>Cooler Temperature</b>		<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Bar Therm	
3. Cooler media:	Ice (bag)	
4. No. Coolers		

<b>Quality Control Preservation</b>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>Sample Integrity - Documentation</b>		<u>Y or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<b>Sample Integrity - Condition</b>		<u>Y or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<b>Sample Integrity - Instructions</b>		<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2. Bottles received for unspecified tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

Comments ANALYSES NOT CHECKED OFF ON COC. RUN ALL ANALYSES ON ALL SAMPLES?

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**Accutest Job Number:** JB13726

**CSR:** Tammy McCloskey

**Response Date:** 8/15/2012

**Response:** All samples require all analysis noted on top of each chain per Rahul.

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Technical Report for

Fleming-Lee Shue, Inc.

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

10112-002-1

Accutest Job Number: JB13738

Sampling Dates: 08/08/12 - 08/14/12

Report to:

Fleming-Lee Shue, Inc.

rahul@flemingleeshue.com

ATTN: Rahul Bhatia

Total number of pages in report: **95**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole  
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Fleming-Lee Shue, Inc.

Job No: JB13738

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
Project No: 10112-002-1

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB13738-1	08/08/12	15:40 RB	08/14/12	AQ	Ground Water	GW-4 (ALT)
JB13738-1F	08/08/12	15:40 RB	08/14/12	AQ	Groundwater Filtered	GW-4 (ALT)
JB13738-2	08/08/12	15:00 RB	08/14/12	AQ	Ground Water	GW-5
JB13738-2F	08/08/12	15:00 RB	08/14/12	AQ	Groundwater Filtered	GW-5
JB13738-3	08/08/12	16:10 RB	08/14/12	AQ	Ground Water	GW-6
JB13738-3F	08/08/12	16:10 RB	08/14/12	AQ	Groundwater Filtered	GW-6
JB13738-4	08/10/12	08:30 RB	08/14/12	AQ	Ground Water	GW-2
JB13738-4F	08/10/12	08:30 RB	08/14/12	AQ	Groundwater Filtered	GW-2
JB13738-5	08/10/12	09:45 RB	08/14/12	AQ	Ground Water	GW-3
JB13738-5F	08/10/12	09:45 RB	08/14/12	AQ	Groundwater Filtered	GW-3
JB13738-6	08/10/12	10:55 RB	08/14/12	AQ	Ground Water	GW-1
JB13738-6F	08/10/12	10:55 RB	08/14/12	AQ	Groundwater Filtered	GW-1
JB13738-7	08/10/12	12:15 RB	08/14/12	AQ	Ground Water	GW-7 (ALT)



## Sample Summary

(continued)

Fleming-Lee Shue, Inc.

**Job No:** JB13738

Rockrose Fleet Site, Jackson Avenue, Long Island City, NY

Project No: 10112-002-1

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB13738-7F	08/10/12	12:15 RB	08/14/12	AQ	Groundwater Filtered	GW-7 (ALT)
JB13738-8	08/13/12	13:30 RB	08/14/12	AQ	Ground Water	GW-8 (ALT)
JB13738-8F	08/13/12	13:30 RB	08/14/12	AQ	Groundwater Filtered	GW-8 (ALT)
JB13738-9	08/14/12	09:30 RB	08/14/12	AQ	Ground Water	GW-9
JB13738-9F	08/14/12	09:30 RB	08/14/12	AQ	Groundwater Filtered	GW-9

## Summary of Hits

**Job Number:** JB13738  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/14/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**JB13738-1      GW-4 (ALT)**

Acetone	5.7 J	10	3.3	ug/l	SW846 8260B
Diethyl phthalate	3.4	2.2	0.37	ug/l	SW846 8270D
Aluminum	781	200		ug/l	SW846 6010C
Barium	223	200		ug/l	SW846 6010C
Calcium	141000	5000		ug/l	SW846 6010C
Iron	7640	100		ug/l	SW846 6010C
Lead	4.7	3.0		ug/l	SW846 6010C
Magnesium	45700	5000		ug/l	SW846 6010C
Manganese	2890	15		ug/l	SW846 6010C
Sodium	299000	20000		ug/l	SW846 6010C
Zinc	90.8	20		ug/l	SW846 6010C

**JB13738-1F      GW-4 (ALT)**

Aluminum	1170	200		ug/l	SW846 6010C
Barium	203	200		ug/l	SW846 6010C
Calcium	125000	5000		ug/l	SW846 6010C
Iron	7640	100		ug/l	SW846 6010C
Lead	7.6	3.0		ug/l	SW846 6010C
Magnesium	40800	5000		ug/l	SW846 6010C
Manganese	2550	15		ug/l	SW846 6010C
Sodium	260000	10000		ug/l	SW846 6010C
Zinc	105	20		ug/l	SW846 6010C

**JB13738-2      GW-5**

Acetone	6.9 J	10	3.3	ug/l	SW846 8260B
Diethyl phthalate	4.1	2.3	0.38	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate	3.4	2.3	0.67	ug/l	SW846 8270D
Aluminum	693	200		ug/l	SW846 6010C
Barium	222	200		ug/l	SW846 6010C
Calcium	138000	5000		ug/l	SW846 6010C
Iron	7630	100		ug/l	SW846 6010C
Lead	4.4	3.0		ug/l	SW846 6010C
Magnesium	44500	5000		ug/l	SW846 6010C
Manganese	2800	15		ug/l	SW846 6010C
Sodium	289000	20000		ug/l	SW846 6010C
Zinc	87.1	20		ug/l	SW846 6010C

**JB13738-2F      GW-5**

Aluminum	1030	200		ug/l	SW846 6010C
Calcium	101000	5000		ug/l	SW846 6010C

## Summary of Hits

**Job Number:** JB13738**Account:** Fleming-Lee Shue, Inc.**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY**Collected:** 08/08/12 thru 08/14/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		6810	100		ug/l	SW846 6010C
Lead		8.2	3.0		ug/l	SW846 6010C
Magnesium		29500	5000		ug/l	SW846 6010C
Manganese		2040	15		ug/l	SW846 6010C
Sodium		213000	20000		ug/l	SW846 6010C
Zinc		70.2	20		ug/l	SW846 6010C
<b>JB13738-3</b>						
<b>GW-6</b>						
Acetone		5.7 J	10	3.3	ug/l	SW846 8260B
Di-n-butyl phthalate		1.7 J	2.3	0.64	ug/l	SW846 8270D
Diethyl phthalate		2.1 J	2.3	0.38	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		3.8	2.3	0.67	ug/l	SW846 8270D
Aluminum		741	200		ug/l	SW846 6010C
Barium		230	200		ug/l	SW846 6010C
Calcium		143000	5000		ug/l	SW846 6010C
Iron		7550	100		ug/l	SW846 6010C
Lead		4.2	3.0		ug/l	SW846 6010C
Magnesium		46400	5000		ug/l	SW846 6010C
Manganese		2980	15		ug/l	SW846 6010C
Sodium		303000	20000		ug/l	SW846 6010C
Zinc		94.5	20		ug/l	SW846 6010C
<b>JB13738-3F</b>						
<b>GW-6</b>						
Aluminum		466	200		ug/l	SW846 6010C
Barium		229	200		ug/l	SW846 6010C
Calcium		142000	5000		ug/l	SW846 6010C
Iron		6620	100		ug/l	SW846 6010C
Lead		3.3	3.0		ug/l	SW846 6010C
Magnesium		46000	5000		ug/l	SW846 6010C
Manganese		2870	15		ug/l	SW846 6010C
Sodium		299000	20000		ug/l	SW846 6010C
Zinc		91.7	20		ug/l	SW846 6010C
<b>JB13738-4</b>						
<b>GW-2</b>						
bis(2-Ethylhexyl)phthalate		2.4	2.1	0.60	ug/l	SW846 8270D
Aluminum		16000	200		ug/l	SW846 6010C
Arsenic		3.0	3.0		ug/l	SW846 6010C
Barium		200	200		ug/l	SW846 6010C
Calcium		183000	5000		ug/l	SW846 6010C
Chromium		34.6	10		ug/l	SW846 6010C
Copper		45.9	10		ug/l	SW846 6010C
Iron		30400	100		ug/l	SW846 6010C

## Summary of Hits

**Job Number:** JB13738  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/14/12

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Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Lead		11.9	3.0		ug/l	SW846 6010C
Magnesium		83600	5000		ug/l	SW846 6010C
Manganese		9650	30		ug/l	SW846 6010C
Nickel		53.4	10		ug/l	SW846 6010C
Sodium		96600	10000		ug/l	SW846 6010C
Zinc		65.6	20		ug/l	SW846 6010C

**JB13738-4F GW-2**

Aluminum		5190	200		ug/l	SW846 6010C
Calcium		182000	5000		ug/l	SW846 6010C
Chromium		12.9	10		ug/l	SW846 6010C
Copper		19.7	10		ug/l	SW846 6010C
Iron		9740	100		ug/l	SW846 6010C
Lead		4.3	3.0		ug/l	SW846 6010C
Magnesium		82500	5000		ug/l	SW846 6010C
Manganese		8420	15		ug/l	SW846 6010C
Nickel		30.0	10		ug/l	SW846 6010C
Sodium		98000	10000		ug/l	SW846 6010C
Zinc		25.1	20		ug/l	SW846 6010C

**JB13738-5 GW-3**

bis(2-Ethylhexyl)phthalate		1.9 J	2.4	0.69	ug/l	SW846 8270D
Aluminum		1260	200		ug/l	SW846 6010C
Calcium		180000	5000		ug/l	SW846 6010C
Copper		10.6	10		ug/l	SW846 6010C
Iron		2350	100		ug/l	SW846 6010C
Magnesium		80300	5000		ug/l	SW846 6010C
Manganese		8100	15		ug/l	SW846 6010C
Nickel		20.4	10		ug/l	SW846 6010C
Sodium		96100	10000		ug/l	SW846 6010C

**JB13738-5F GW-3**

Aluminum		1130	200		ug/l	SW846 6010C
Calcium		181000	5000		ug/l	SW846 6010C
Iron		2070	100		ug/l	SW846 6010C
Magnesium		80100	5000		ug/l	SW846 6010C
Manganese		7760	15		ug/l	SW846 6010C
Nickel		20.4	10		ug/l	SW846 6010C
Sodium		97300	10000		ug/l	SW846 6010C

## Summary of Hits

**Job Number:** JB13738  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/14/12

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
<b>JB13738-6</b>	<b>GW-1</b>					
		Aluminum	929	200	ug/l	SW846 6010C
		Calcium	180000	5000	ug/l	SW846 6010C
		Iron	1720	100	ug/l	SW846 6010C
		Magnesium	80000	5000	ug/l	SW846 6010C
		Manganese	7880	15	ug/l	SW846 6010C
		Nickel	19.2	10	ug/l	SW846 6010C
		Sodium	97600	10000	ug/l	SW846 6010C
<b>JB13738-6F</b>	<b>GW-1</b>					
		Aluminum	928	200	ug/l	SW846 6010C
		Calcium	183000	5000	ug/l	SW846 6010C
		Iron	1700	100	ug/l	SW846 6010C
		Magnesium	81200	5000	ug/l	SW846 6010C
		Manganese	7980	15	ug/l	SW846 6010C
		Nickel	19.4	10	ug/l	SW846 6010C
		Sodium	98300	10000	ug/l	SW846 6010C
<b>JB13738-7</b>	<b>GW-7 (ALT)</b>					
		Aluminum	645	200	ug/l	SW846 6010C
		Calcium	179000	5000	ug/l	SW846 6010C
		Iron	1070	100	ug/l	SW846 6010C
		Magnesium	79500	5000	ug/l	SW846 6010C
		Manganese	7760	15	ug/l	SW846 6010C
		Nickel	18.0	10	ug/l	SW846 6010C
		Sodium	93600	10000	ug/l	SW846 6010C
<b>JB13738-7F</b>	<b>GW-7 (ALT)</b>					
		Aluminum	596	200	ug/l	SW846 6010C
		Calcium	202000	5000	ug/l	SW846 6010C
		Iron	1110	100	ug/l	SW846 6010C
		Magnesium	89800	5000	ug/l	SW846 6010C
		Manganese	8670	15	ug/l	SW846 6010C
		Nickel	19.6	10	ug/l	SW846 6010C
		Sodium	108000	10000	ug/l	SW846 6010C
<b>JB13738-8</b>	<b>GW-8 (ALT)</b>					
		Aluminum	441	200	ug/l	SW846 6010C
		Calcium	181000	5000	ug/l	SW846 6010C
		Iron	868	100	ug/l	SW846 6010C

## Summary of Hits

**Job Number:** JB13738  
**Account:** Fleming-Lee Shue, Inc.  
**Project:** Rockrose Fleet Site, Jackson Avenue, Long Island City, NY  
**Collected:** 08/08/12 thru 08/14/12

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Magnesium		80700	5000		ug/l	SW846 6010C
Manganese		7670	15		ug/l	SW846 6010C
Nickel		17.2	10		ug/l	SW846 6010C
Sodium		96800	10000		ug/l	SW846 6010C

**JB13738-8F GW-8 (ALT)**

Aluminum		354	200		ug/l	SW846 6010C
Calcium		203000	5000		ug/l	SW846 6010C
Iron		670	100		ug/l	SW846 6010C
Magnesium		90100	5000		ug/l	SW846 6010C
Manganese		8530	15		ug/l	SW846 6010C
Nickel		18.8	10		ug/l	SW846 6010C
Sodium		109000	10000		ug/l	SW846 6010C

**JB13738-9 GW-9**

Aluminum		321	200		ug/l	SW846 6010C
Calcium		206000	5000		ug/l	SW846 6010C
Iron		623	100		ug/l	SW846 6010C
Magnesium		91200	5000		ug/l	SW846 6010C
Manganese		8610	15		ug/l	SW846 6010C
Nickel		18.6	10		ug/l	SW846 6010C
Sodium		108000	10000		ug/l	SW846 6010C

**JB13738-9F GW-9**

Aluminum		609	200		ug/l	SW846 6010C
Calcium		178000	5000		ug/l	SW846 6010C
Iron		1160	100		ug/l	SW846 6010C
Magnesium		77800	5000		ug/l	SW846 6010C
Manganese		7410	15		ug/l	SW846 6010C
Nickel		17.1	10		ug/l	SW846 6010C
Sodium		92600	10000		ug/l	SW846 6010C

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125956.D	1	08/17/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.7	10	3.3	ug/l	J
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		81-121%
17060-07-0	1,2-Dichloroethane-D4	87%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66462.D	1	08/17/12	NAP	08/15/12	OP58981	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	19	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.2	ug/l	
	3&4-Methylphenol	ND	2.2	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.6	ug/l	
108-95-2	Phenol	ND	2.2	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.4	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.26	ug/l	
98-86-2	Acetophenone	ND	2.2	0.32	ug/l	
120-12-7	Anthracene	ND	1.1	0.32	ug/l	
1912-24-9	Atrazine	ND	5.6	0.55	ug/l	
100-52-7	Benzaldehyde	ND	5.6	3.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.25	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.51	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.32	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.34	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.59	ug/l	
86-74-8	Carbazole	ND	1.1	0.40	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)	
<b>Lab Sample ID:</b> JB13738-1	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3510C	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.77	ug/l	
218-01-9	Chrysene	ND	1.1	0.32	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.52	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.6	0.40	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.42	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.35	ug/l	
84-66-2	Diethyl phthalate	3.4	2.2	0.37	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.32	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.66	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.36	ug/l	
86-73-7	Fluorene	ND	1.1	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	8.0	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.62	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.42	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.9	ug/l	
91-20-3	Naphthalene	ND	1.1	0.29	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.47	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.34	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.34	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.33	ug/l	
129-00-0	Pyrene	ND	1.1	0.30	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		10-83%
4165-62-2	Phenol-d5	19%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)	
<b>Lab Sample ID:</b> JB13738-1	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3510C	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

### ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	106%		24-148%
4165-60-0	Nitrobenzene-d5	91%		38-129%
321-60-8	2-Fluorobiphenyl	96%		42-117%
1718-51-0	Terphenyl-d14	89%		14-132%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)		
<b>Lab Sample ID:</b> JB13738-1		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G82542.D	1	08/20/12	DS	08/15/12	OP59024	G1G2742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	860 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.012	0.011	ug/l	
319-84-6	alpha-BHC	ND	0.012	0.0046	ug/l	
319-85-7	beta-BHC	ND	0.012	0.0044	ug/l	
319-86-8	delta-BHC	ND	0.012	0.0072	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.012	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.012	0.0058	ug/l	
5103-74-2	gamma-Chlordane	ND	0.012	0.0027	ug/l	
60-57-1	Dieldrin	ND	0.012	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.012	0.0042	ug/l	
72-55-9	4,4'-DDE	ND	0.012	0.0034	ug/l	
50-29-3	4,4'-DDT	ND	0.012	0.0069	ug/l	
72-20-8	Endrin	ND	0.012	0.0074	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.012	0.0075	ug/l	
7421-93-4	Endrin aldehyde	ND	0.012	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.012	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.012	0.0035	ug/l	
33213-65-9	Endosulfan-II	ND	0.012	0.0032	ug/l	
76-44-8	Heptachlor	ND	0.012	0.0098	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.012	0.0044	ug/l	
72-43-5	Methoxychlor	ND	0.023	0.0095	ug/l	
8001-35-2	Toxaphene	ND	0.29	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		26-145%
877-09-8	Tetrachloro-m-xylene	101%		26-145%
2051-24-3	Decachlorobiphenyl	90%		10-141%
2051-24-3	Decachlorobiphenyl	93%		10-141%

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



# Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-1		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	781	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Barium	223	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Calcium	141000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Iron	7640	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Lead	4.7	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Magnesium	45700	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Manganese	2890	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>5</sup>
Nickel	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Sodium	299000	20000	ug/l	2	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Zinc	90.8	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29274
- (4) Prep QC Batch: MP66203
- (5) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-4 (ALT)	
<b>Lab Sample ID:</b> JB13738-1F	<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Date Received:</b> 08/14/12
	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1170	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Barium	203	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Calcium	125000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Iron	7640	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Lead	7.6	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Magnesium	40800	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Manganese	2550	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>5</sup>
Nickel	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Sodium	260000	10000	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Zinc	105	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>

(1) Instrument QC Batch: MA29255

(2) Instrument QC Batch: MA29266

(3) Instrument QC Batch: MA29274

(4) Prep QC Batch: MP66203

(5) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125957.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.9	10	3.3	ug/l	J
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		81-121%
17060-07-0	1,2-Dichloroethane-D4	87%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66463.D	1	08/17/12	NAP	08/15/12	OP58981	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.7	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.7	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.7	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.7	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	19	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	23	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.3	1.2	ug/l	
	3&4-Methylphenol	ND	2.3	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.7	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	6.0	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.6	ug/l	
108-95-2	Phenol	ND	2.3	1.5	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.7	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.7	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.7	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.26	ug/l	
98-86-2	Acetophenone	ND	2.3	0.33	ug/l	
120-12-7	Anthracene	ND	1.1	0.33	ug/l	
1912-24-9	Atrazine	ND	5.7	0.56	ug/l	
100-52-7	Benzaldehyde	ND	5.7	3.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.26	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.52	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.37	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.59	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.3	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.3	0.33	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.35	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.3	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.7	0.61	ug/l	
86-74-8	Carbazole	ND	1.1	0.41	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.3	0.79	ug/l	
218-01-9	Chrysene	ND	1.1	0.33	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.3	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.3	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.3	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.3	0.36	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.3	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.3	0.53	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.7	0.41	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.43	ug/l	
132-64-9	Dibenzofuran	ND	5.7	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.3	0.64	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.3	0.35	ug/l	
84-66-2	Diethyl phthalate	4.1	2.3	0.38	ug/l	
131-11-3	Dimethyl phthalate	ND	2.3	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	3.4	2.3	0.67	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.37	ug/l	
86-73-7	Fluorene	ND	1.1	0.32	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.39	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	8.2	ug/l	
67-72-1	Hexachloroethane	ND	2.3	0.63	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.43	ug/l	
78-59-1	Isophorone	ND	2.3	0.31	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.44	ug/l	
88-74-4	2-Nitroaniline	ND	5.7	1.3	ug/l	
99-09-2	3-Nitroaniline	ND	5.7	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.7	1.9	ug/l	
91-20-3	Naphthalene	ND	1.1	0.30	ug/l	
98-95-3	Nitrobenzene	ND	2.3	0.48	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.3	0.35	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.35	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.34	ug/l	
129-00-0	Pyrene	ND	1.1	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.3	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		10-83%
4165-62-2	Phenol-d5	19%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	106%		24-148%
4165-60-0	Nitrobenzene-d5	93%		38-129%
321-60-8	2-Fluorobiphenyl	101%		42-117%
1718-51-0	Terphenyl-d14	96%		14-132%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-5		
<b>Lab Sample ID:</b> JB13738-2		<b>Date Sampled:</b> 08/08/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G82543.D	1	08/20/12	DS	08/15/12	OP59024	G1G2742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.010	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0044	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0042	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0069	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0046	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0055	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0026	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0037	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0040	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0033	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0066	ug/l	
72-20-8	Endrin	ND	0.011	0.0071	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0071	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0032	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0045	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0034	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0031	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0093	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0042	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0091	ug/l	
8001-35-2	Toxaphene	ND	0.28	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		26-145%
877-09-8	Tetrachloro-m-xylene	98%		26-145%
2051-24-3	Decachlorobiphenyl	90%		10-141%
2051-24-3	Decachlorobiphenyl	93%		10-141%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8082A SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX123236.D	1	08/28/12	AZ	08/15/12	OP59023	GXX4451
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	900 ml	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.56	0.14	ug/l	
11104-28-2	Aroclor 1221	ND	0.56	0.30	ug/l	
11141-16-5	Aroclor 1232	ND	0.56	0.43	ug/l	
53469-21-9	Aroclor 1242	ND	0.56	0.096	ug/l	
12672-29-6	Aroclor 1248	ND	0.56	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.56	0.16	ug/l	
11096-82-5	Aroclor 1260	ND	0.56	0.23	ug/l	
11100-14-4	Aroclor 1268	ND	0.56	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.56	0.067	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		27-144%
877-09-8	Tetrachloro-m-xylene	118%		27-144%
2051-24-3	Decachlorobiphenyl	75%		10-139%
2051-24-3	Decachlorobiphenyl	134%		10-139%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> GW-5	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	693	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Barium	222	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Calcium	138000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Iron	7630	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Lead	4.4	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Magnesium	44500	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Manganese	2800	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>5</sup>
Nickel	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Sodium	289000	20000	ug/l	2	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Zinc	87.1	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29274
- (4) Prep QC Batch: MP66203
- (5) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-5		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-2F		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

### Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1030	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Calcium	101000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Iron	6810	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Lead	8.2	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Magnesium	29500	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Manganese	2040	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>5</sup>
Nickel	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Sodium	213000	20000	ug/l	2	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Zinc	70.2	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29274
- (4) Prep QC Batch: MP66203
- (5) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-6		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125959.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.7	10	3.3	ug/l	J
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-6		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		81-121%
17060-07-0	1,2-Dichloroethane-D4	88%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	94%		78-116%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-6		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66464.D	1	08/17/12	NAP	08/15/12	OP58981	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.7	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.7	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.7	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.7	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	19	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	23	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.3	1.2	ug/l	
	3&4-Methylphenol	ND	2.3	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.7	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	6.0	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.6	ug/l	
108-95-2	Phenol	ND	2.3	1.5	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.7	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.7	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.7	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.26	ug/l	
98-86-2	Acetophenone	ND	2.3	0.33	ug/l	
120-12-7	Anthracene	ND	1.1	0.33	ug/l	
1912-24-9	Atrazine	ND	5.7	0.56	ug/l	
100-52-7	Benzaldehyde	ND	5.7	3.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.26	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.52	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.37	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.59	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.3	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.3	0.33	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.35	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.3	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.7	0.61	ug/l	
86-74-8	Carbazole	ND	1.1	0.41	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	GW-6	<b>Date Sampled:</b>	08/08/12
<b>Lab Sample ID:</b>	JB13738-3	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8270D SW846 3510C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.3	0.79	ug/l	
218-01-9	Chrysene	ND	1.1	0.33	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.3	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.3	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.3	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.3	0.36	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.3	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.3	0.53	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.7	0.41	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.43	ug/l	
132-64-9	Dibenzofuran	ND	5.7	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	1.7	2.3	0.64	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	2.3	0.35	ug/l	
84-66-2	Diethyl phthalate	2.1	2.3	0.38	ug/l	J
131-11-3	Dimethyl phthalate	ND	2.3	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	3.8	2.3	0.67	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.37	ug/l	
86-73-7	Fluorene	ND	1.1	0.32	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.39	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	8.2	ug/l	
67-72-1	Hexachloroethane	ND	2.3	0.63	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.43	ug/l	
78-59-1	Isophorone	ND	2.3	0.31	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.44	ug/l	
88-74-4	2-Nitroaniline	ND	5.7	1.3	ug/l	
99-09-2	3-Nitroaniline	ND	5.7	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.7	1.9	ug/l	
91-20-3	Naphthalene	ND	1.1	0.30	ug/l	
98-95-3	Nitrobenzene	ND	2.3	0.48	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.3	0.35	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.35	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.34	ug/l	
129-00-0	Pyrene	ND	1.1	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.3	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		10-83%
4165-62-2	Phenol-d5	19%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-6		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	97%		24-148%
4165-60-0	Nitrobenzene-d5	85%		38-129%
321-60-8	2-Fluorobiphenyl	93%		42-117%
1718-51-0	Terphenyl-d14	92%		14-132%

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

# Report of Analysis

<b>Client Sample ID:</b> GW-6		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8081B SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G82544.D	1	08/20/12	DS	08/15/12	OP59024	G1G2742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	880 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.011	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0045	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0043	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0070	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0047	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0056	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0026	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0037	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0041	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0034	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0068	ug/l	
72-20-8	Endrin	ND	0.011	0.0072	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0073	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0033	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0046	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0035	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0032	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0095	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0043	ug/l	
72-43-5	Methoxychlor	ND	0.023	0.0093	ug/l	
8001-35-2	Toxaphene	ND	0.28	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	115%		26-145%
877-09-8	Tetrachloro-m-xylene	107%		26-145%
2051-24-3	Decachlorobiphenyl	100%		10-141%
2051-24-3	Decachlorobiphenyl	99%		10-141%

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

## Report of Analysis

35  
3

<b>Client Sample ID:</b> GW-6		<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8082A SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX123237.D	1	08/28/12	AZ	08/15/12	OP59023	GXX4451
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	880 ml	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.57	0.15	ug/l	
11104-28-2	Aroclor 1221	ND	0.57	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.57	0.44	ug/l	
53469-21-9	Aroclor 1242	ND	0.57	0.098	ug/l	
12672-29-6	Aroclor 1248	ND	0.57	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.57	0.16	ug/l	
11096-82-5	Aroclor 1260	ND	0.57	0.24	ug/l	
11100-14-4	Aroclor 1268	ND	0.57	0.15	ug/l	
37324-23-5	Aroclor 1262	ND	0.57	0.068	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		27-144%
877-09-8	Tetrachloro-m-xylene	102%		27-144%
2051-24-3	Decachlorobiphenyl	66%		10-139%
2051-24-3	Decachlorobiphenyl	69%		10-139%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> GW-6	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	741	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Barium	230	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Calcium	143000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Iron	7550	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Lead	4.2	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Magnesium	46400	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Manganese	2980	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>5</sup>
Nickel	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Sodium	303000	20000	ug/l	2	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Zinc	94.5	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29274
- (4) Prep QC Batch: MP66203
- (5) Prep QC Batch: MP66271

RL = Reporting Limit

# Report of Analysis

<b>Client Sample ID:</b> GW-6	<b>Date Sampled:</b> 08/08/12
<b>Lab Sample ID:</b> JB13738-3F	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	466	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Barium	229	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Calcium	142000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Iron	6620	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>3</sup>	SW846 3010A <sup>4</sup>
Lead	3.3	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Magnesium	46000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Manganese	2870	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>5</sup>
Nickel	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Sodium	299000	20000	ug/l	2	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>
Zinc	91.7	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>4</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29274
- (4) Prep QC Batch: MP66203
- (5) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-2		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125960.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-2		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		81-121%
17060-07-0	1,2-Dichloroethane-D4	87%		74-127%
2037-26-5	Toluene-D8	100%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-2		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P15508.D	1	08/17/12	ALS	08/16/12	OP59055	E2P705
Run #2							

Run #	Initial Volume	Final Volume
Run #1	975 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	1.0	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.1	ug/l	
	3&4-Methylphenol	ND	2.1	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.1	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	0.96	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.27	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.1	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.30	ug/l	
1912-24-9	Atrazine	ND	5.1	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.1	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.47	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.33	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.52	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.37	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.30	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.31	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	0.54	ug/l	
86-74-8	Carbazole	ND	1.0	0.37	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	GW-2	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13738-4	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8270D SW846 3510C		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.71	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.32	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.47	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.32	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.44	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.47	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.1	0.37	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.39	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.57	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.32	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.34	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.29	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.4	2.1	0.60	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.33	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.35	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.53	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.3	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.56	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.38	ug/l	
78-59-1	Isophorone	ND	2.1	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.39	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.43	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.31	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.30	ug/l	
129-00-0	Pyrene	ND	1.0	0.28	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-83%
4165-62-2	Phenol-d5	24%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-2		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	85%		24-148%
4165-60-0	Nitrobenzene-d5	113%		38-129%
321-60-8	2-Fluorobiphenyl	95%		42-117%
1718-51-0	Terphenyl-d14	108%		14-132%

ND = Not detected      MDL - Method Detection Limit  
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J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-2		
<b>Lab Sample ID:</b> JB13738-4		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67173.D	1	08/20/12	OPM	08/16/12	OP59063	G3G2385
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0096	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0041	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0063	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0042	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0051	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0024	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0034	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0037	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0030	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0061	ug/l	
72-20-8	Endrin	ND	0.010	0.0065	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0066	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0029	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0042	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0031	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0028	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0086	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0039	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0083	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-145%
877-09-8	Tetrachloro-m-xylene	79%		26-145%
2051-24-3	Decachlorobiphenyl	66%		10-141%
2051-24-3	Decachlorobiphenyl	68%		10-141%

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

## Report of Analysis

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3

<b>Client Sample ID:</b> GW-2		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8082A SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111683.D	1	08/22/12	GAD	08/16/12	OP59062	GEF4558
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.51	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.51	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.51	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.51	0.088	ug/l	
12672-29-6	Aroclor 1248	ND	0.51	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.51	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.51	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.51	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.51	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		27-144%
877-09-8	Tetrachloro-m-xylene	81%		27-144%
2051-24-3	Decachlorobiphenyl	73%		10-139%
2051-24-3	Decachlorobiphenyl	77%		10-139%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> GW-2	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	16000	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	183000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	34.6	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	45.9	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	30400	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	11.9	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	83600	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	9650	30	ug/l	2	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	53.4	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	96600	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	65.6	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

# Report of Analysis

<b>Client Sample ID:</b> GW-2	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-4F	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5190	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	182000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	12.9	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	19.7	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	9740	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	4.3	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	82500	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	8420	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	30.0	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	98000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	25.1	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-3		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125961.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-3		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		81-121%
17060-07-0	1,2-Dichloroethane-D4	88%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-3		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66469.D	1	08/17/12	NAP	08/16/12	OP59055	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	850 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.9	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.9	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.9	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.9	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	19	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	24	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.4	1.2	ug/l	
	3&4-Methylphenol	ND	2.4	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.9	1.8	ug/l	
100-02-7	4-Nitrophenol	ND	12	6.1	ug/l	
87-86-5	Pentachlorophenol	ND	12	1.6	ug/l	
108-95-2	Phenol	ND	2.4	1.5	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.9	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.9	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.9	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.31	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.27	ug/l	
98-86-2	Acetophenone	ND	2.4	0.34	ug/l	
120-12-7	Anthracene	ND	1.2	0.34	ug/l	
1912-24-9	Atrazine	ND	5.9	0.57	ug/l	
100-52-7	Benzaldehyde	ND	5.9	3.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.54	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.60	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.4	0.42	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.4	0.34	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.36	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.4	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	5.9	0.62	ug/l	
86-74-8	Carbazole	ND	1.2	0.42	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-3		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.4	0.81	ug/l	
218-01-9	Chrysene	ND	1.2	0.34	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.4	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.4	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.4	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.4	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.4	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.4	0.54	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.9	0.42	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.44	ug/l	
132-64-9	Dibenzofuran	ND	5.9	0.31	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.4	0.65	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.4	0.36	ug/l	
84-66-2	Diethyl phthalate	ND	2.4	0.38	ug/l	
131-11-3	Dimethyl phthalate	ND	2.4	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.9	2.4	0.69	ug/l	J
206-44-0	Fluoranthene	ND	1.2	0.37	ug/l	
86-73-7	Fluorene	ND	1.2	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	8.4	ug/l	
67-72-1	Hexachloroethane	ND	2.4	0.65	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.44	ug/l	
78-59-1	Isophorone	ND	2.4	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	5.9	1.3	ug/l	
99-09-2	3-Nitroaniline	ND	5.9	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.9	1.9	ug/l	
91-20-3	Naphthalene	ND	1.2	0.30	ug/l	
98-95-3	Nitrobenzene	ND	2.4	0.49	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.4	0.36	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.9	0.36	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.34	ug/l	
129-00-0	Pyrene	ND	1.2	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.4	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		10-83%
4165-62-2	Phenol-d5	17%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-3		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

### ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96%		24-148%
4165-60-0	Nitrobenzene-d5	73%		38-129%
321-60-8	2-Fluorobiphenyl	84%		42-117%
1718-51-0	Terphenyl-d14	91%		14-132%

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





### Report of Analysis

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3

<b>Client Sample ID:</b> GW-3	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**Total Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1260	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	180000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	10.6	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	2350	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	80300	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	8100	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	20.4	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	96100	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

# Report of Analysis

<b>Client Sample ID:</b> GW-3	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-5F	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1130	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/28/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	181000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	2070	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	80100	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	7760	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	20.4	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	97300	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-1		
<b>Lab Sample ID:</b> JB13738-6		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125962.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> GW-1		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-6		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		81-121%
17060-07-0	1,2-Dichloroethane-D4	89%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-1		
<b>Lab Sample ID:</b> JB13738-6		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66470.D	1	08/17/12	NAP	08/16/12	OP59055	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	840 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.0	1.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.0	2.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	6.0	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	24	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.4	1.2	ug/l	
	3&4-Methylphenol	ND	2.4	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.0	1.8	ug/l	
100-02-7	4-Nitrophenol	ND	12	6.2	ug/l	
87-86-5	Pentachlorophenol	ND	12	1.7	ug/l	
108-95-2	Phenol	ND	2.4	1.5	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.0	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.0	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.31	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.27	ug/l	
98-86-2	Acetophenone	ND	2.4	0.34	ug/l	
120-12-7	Anthracene	ND	1.2	0.34	ug/l	
1912-24-9	Atrazine	ND	6.0	0.58	ug/l	
100-52-7	Benzaldehyde	ND	6.0	3.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.54	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.61	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.4	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.4	0.34	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.36	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.4	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	6.0	0.63	ug/l	
86-74-8	Carbazole	ND	1.2	0.43	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-1		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-6		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.4	0.82	ug/l	
218-01-9	Chrysene	ND	1.2	0.34	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.4	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.4	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.4	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.4	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.4	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.4	0.55	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	6.0	0.43	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.45	ug/l	
132-64-9	Dibenzofuran	ND	6.0	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.4	0.66	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.4	0.37	ug/l	
84-66-2	Diethyl phthalate	ND	2.4	0.39	ug/l	
131-11-3	Dimethyl phthalate	ND	2.4	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.4	0.70	ug/l	
206-44-0	Fluoranthene	ND	1.2	0.38	ug/l	
86-73-7	Fluorene	ND	1.2	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.61	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	8.5	ug/l	
67-72-1	Hexachloroethane	ND	2.4	0.65	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.45	ug/l	
78-59-1	Isophorone	ND	2.4	0.33	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	6.0	1.3	ug/l	
99-09-2	3-Nitroaniline	ND	6.0	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	6.0	2.0	ug/l	
91-20-3	Naphthalene	ND	1.2	0.31	ug/l	
98-95-3	Nitrobenzene	ND	2.4	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.4	0.36	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.0	0.36	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.35	ug/l	
129-00-0	Pyrene	ND	1.2	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.4	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		10-83%
4165-62-2	Phenol-d5	12%		10-74%

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

**Report of Analysis**

<b>Client Sample ID:</b> GW-1		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-6		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83%		24-148%
4165-60-0	Nitrobenzene-d5	64%		38-129%
321-60-8	2-Fluorobiphenyl	72%		42-117%
1718-51-0	Terphenyl-d14	84%		14-132%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-1		
<b>Lab Sample ID:</b> JB13738-6		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67175.D	1	08/20/12	OPM	08/16/12	OP59063	G3G2385
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0095	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0062	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0041	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0023	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0036	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0030	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0060	ug/l	
72-20-8	Endrin	ND	0.010	0.0064	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0064	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0029	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0041	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0030	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0028	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0084	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0038	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0082	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		26-145%
877-09-8	Tetrachloro-m-xylene	73%		26-145%
2051-24-3	Decachlorobiphenyl	65%		10-141%
2051-24-3	Decachlorobiphenyl	68%		10-141%

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



## Report of Analysis

<b>Client Sample ID:</b> GW-1	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-6	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	929	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	180000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	1720	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	80000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	7880	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	19.2	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	97600	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255  
(2) Instrument QC Batch: MA29266  
(3) Instrument QC Batch: MA29267  
(4) Instrument QC Batch: MA29274  
(5) Prep QC Batch: MP66203  
(6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-1		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-6F		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

### Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	928	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/28/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	183000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	1700	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	81200	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	7980	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	19.4	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	98300	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125963.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	GW-7 (ALT)	<b>Date Sampled:</b>	08/10/12
<b>Lab Sample ID:</b>	JB13738-7	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		81-121%
17060-07-0	1,2-Dichloroethane-D4	88%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66471.D	1	08/17/12	NAP	08/16/12	OP59055	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	845 ml	1.0 ml
Run #2		

**ABN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.9	1.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.9	2.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.9	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.9	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	24	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.4	1.2	ug/l	
	3&4-Methylphenol	ND	2.4	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.9	1.8	ug/l	
100-02-7	4-Nitrophenol	ND	12	6.2	ug/l	
87-86-5	Pentachlorophenol	ND	12	1.6	ug/l	
108-95-2	Phenol	ND	2.4	1.5	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.9	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.9	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.9	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.31	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.27	ug/l	
98-86-2	Acetophenone	ND	2.4	0.34	ug/l	
120-12-7	Anthracene	ND	1.2	0.34	ug/l	
1912-24-9	Atrazine	ND	5.9	0.58	ug/l	
100-52-7	Benzaldehyde	ND	5.9	3.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.54	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.60	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.4	0.42	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.4	0.34	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.36	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.4	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	5.9	0.62	ug/l	
86-74-8	Carbazole	ND	1.2	0.43	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  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.4	0.82	ug/l	
218-01-9	Chrysene	ND	1.2	0.34	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.4	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.4	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.4	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.4	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.4	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.4	0.55	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.9	0.43	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.9	0.31	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.4	0.66	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.4	0.36	ug/l	
84-66-2	Diethyl phthalate	ND	2.4	0.39	ug/l	
131-11-3	Dimethyl phthalate	ND	2.4	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.4	0.69	ug/l	
206-44-0	Fluoranthene	ND	1.2	0.38	ug/l	
86-73-7	Fluorene	ND	1.2	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.61	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	8.4	ug/l	
67-72-1	Hexachloroethane	ND	2.4	0.65	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.44	ug/l	
78-59-1	Isophorone	ND	2.4	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	5.9	1.3	ug/l	
99-09-2	3-Nitroaniline	ND	5.9	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.9	2.0	ug/l	
91-20-3	Naphthalene	ND	1.2	0.31	ug/l	
98-95-3	Nitrobenzene	ND	2.4	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.4	0.36	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.9	0.36	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.35	ug/l	
129-00-0	Pyrene	ND	1.2	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.4	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		10-83%
4165-62-2	Phenol-d5	19%		10-74%

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

**Report of Analysis**

<b>Client Sample ID:</b> GW-7 (ALT)	
<b>Lab Sample ID:</b> JB13738-7	<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8270D SW846 3510C	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	110%		24-148%
4165-60-0	Nitrobenzene-d5	87%		38-129%
321-60-8	2-Fluorobiphenyl	97%		42-117%
1718-51-0	Terphenyl-d14	100%		14-132%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)		
<b>Lab Sample ID:</b> JB13738-7		<b>Date Sampled:</b> 08/10/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67176.D	1	08/20/12	OPM	08/16/12	OP59063	G3G2385
Run #2							

Run #	Initial Volume	Final Volume
Run #1	970 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0097	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0041	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0039	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0064	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0042	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0051	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0024	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0034	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0037	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0030	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0061	ug/l	
72-20-8	Endrin	ND	0.010	0.0066	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0066	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0030	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0042	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0031	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0086	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0039	ug/l	
72-43-5	Methoxychlor	ND	0.021	0.0084	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		26-145%
877-09-8	Tetrachloro-m-xylene	76%		26-145%
2051-24-3	Decachlorobiphenyl	66%		10-141%
2051-24-3	Decachlorobiphenyl	69%		10-141%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)		<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-7		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8082A SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111686.D	1	08/22/12	GAD	08/16/12	OP59062	GEF4558
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	970 ml	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	0.40	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	0.089	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	0.22	ug/l	
11100-14-4	Aroclor 1268	ND	0.52	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.52	0.062	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		27-144%
877-09-8	Tetrachloro-m-xylene	75%		27-144%
2051-24-3	Decachlorobiphenyl	72%		10-139%
2051-24-3	Decachlorobiphenyl	78%		10-139%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-7	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

**Total Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	645	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	179000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	1070	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	79500	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	7760	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	18.0	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	93600	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-7 (ALT)	<b>Date Sampled:</b> 08/10/12
<b>Lab Sample ID:</b> JB13738-7F	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	596	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/28/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	202000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	1110	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	89800	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	8670	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	19.6	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	108000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255  
(2) Instrument QC Batch: MA29266  
(3) Instrument QC Batch: MA29267  
(4) Instrument QC Batch: MA29274  
(5) Prep QC Batch: MP66203  
(6) Prep QC Batch: MP66271

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RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	GW-8 (ALT)	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13738-8	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125964.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	GW-8 (ALT)	<b>Date Sampled:</b>	08/13/12
<b>Lab Sample ID:</b>	JB13738-8	<b>Date Received:</b>	08/14/12
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		81-121%
17060-07-0	1,2-Dichloroethane-D4	88%		74-127%
2037-26-5	Toluene-D8	99%		80-122%
460-00-4	4-Bromofluorobenzene	95%		78-116%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-8 (ALT)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13738-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66472.D	1	08/17/12	NAP	08/16/12	OP59055	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-8 (ALT)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13738-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.29	ug/l	
129-00-0	Pyrene	ND	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%		10-83%
4165-62-2	Phenol-d5	10%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-8 (ALT)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13738-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70%		24-148%
4165-60-0	Nitrobenzene-d5	55%		38-129%
321-60-8	2-Fluorobiphenyl	61%		42-117%
1718-51-0	Terphenyl-d14	71%		14-132%

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

# Report of Analysis

<b>Client Sample ID:</b> GW-8 (ALT)		
<b>Lab Sample ID:</b> JB13738-8		<b>Date Sampled:</b> 08/13/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67177.D	1	08/20/12	OPM	08/16/12	OP59063	G3G2385
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	840 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.012	0.011	ug/l	
319-84-6	alpha-BHC	ND	0.012	0.0047	ug/l	
319-85-7	beta-BHC	ND	0.012	0.0045	ug/l	
319-86-8	delta-BHC	ND	0.012	0.0073	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.012	0.0049	ug/l	
5103-71-9	alpha-Chlordane	ND	0.012	0.0059	ug/l	
5103-74-2	gamma-Chlordane	ND	0.012	0.0028	ug/l	
60-57-1	Dieldrin	ND	0.012	0.0039	ug/l	
72-54-8	4,4'-DDD	ND	0.012	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.012	0.0035	ug/l	
50-29-3	4,4'-DDT	ND	0.012	0.0071	ug/l	
72-20-8	Endrin	ND	0.012	0.0076	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.012	0.0077	ug/l	
7421-93-4	Endrin aldehyde	ND	0.012	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.012	0.0049	ug/l	
959-98-8	Endosulfan-I	ND	0.012	0.0036	ug/l	
33213-65-9	Endosulfan-II	ND	0.012	0.0033	ug/l	
76-44-8	Heptachlor	ND	0.012	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.012	0.0045	ug/l	
72-43-5	Methoxychlor	ND	0.024	0.0097	ug/l	
8001-35-2	Toxaphene	ND	0.30	0.18	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-145%
877-09-8	Tetrachloro-m-xylene	80%		26-145%
2051-24-3	Decachlorobiphenyl	72%		10-141%
2051-24-3	Decachlorobiphenyl	74%		10-141%

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

## Report of Analysis

3.15  
3

<b>Client Sample ID:</b> GW-8 (ALT)		<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13738-8		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8082A SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111687.D	1	08/22/12	GAD	08/16/12	OP59062	GEF4558
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	840 ml	10.0 ml
Run #2		

### PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.60	0.15	ug/l	
11104-28-2	Aroclor 1221	ND	0.60	0.32	ug/l	
11141-16-5	Aroclor 1232	ND	0.60	0.46	ug/l	
53469-21-9	Aroclor 1242	ND	0.60	0.10	ug/l	
12672-29-6	Aroclor 1248	ND	0.60	0.17	ug/l	
11097-69-1	Aroclor 1254	ND	0.60	0.17	ug/l	
11096-82-5	Aroclor 1260	ND	0.60	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.60	0.15	ug/l	
37324-23-5	Aroclor 1262	ND	0.60	0.071	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		27-144%
877-09-8	Tetrachloro-m-xylene	79%		27-144%
2051-24-3	Decachlorobiphenyl	78%		10-139%
2051-24-3	Decachlorobiphenyl	83%		10-139%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-8 (ALT)	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13738-8	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	441	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	181000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	868	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	80700	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	7670	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	17.2	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	96800	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

(1) Instrument QC Batch: MA29255

(2) Instrument QC Batch: MA29266

(3) Instrument QC Batch: MA29267

(4) Instrument QC Batch: MA29274

(5) Prep QC Batch: MP66203

(6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-8 (ALT)	<b>Date Sampled:</b> 08/13/12
<b>Lab Sample ID:</b> JB13738-8F	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	354	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/28/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	203000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	670	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	90100	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	8530	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	18.8	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	109000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

(1) Instrument QC Batch: MA29255

(2) Instrument QC Batch: MA29266

(3) Instrument QC Batch: MA29267

(4) Instrument QC Batch: MA29274

(5) Prep QC Batch: MP66203

(6) Prep QC Batch: MP66271

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-9		<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A125965.D	1	08/18/12	CC	n/a	n/a	V2A5380
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-9		<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		81-121%
17060-07-0	1,2-Dichloroethane-D4	89%		74-127%
2037-26-5	Toluene-D8	98%		80-122%
460-00-4	4-Bromofluorobenzene	94%		78-116%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-9		<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66473.D	1	08/17/12	NAP	08/16/12	OP59055	EP2847
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	855 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.8	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.8	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.8	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.8	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	19	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	23	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.3	1.2	ug/l	
	3&4-Methylphenol	ND	2.3	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.8	1.8	ug/l	
100-02-7	4-Nitrophenol	ND	12	6.1	ug/l	
87-86-5	Pentachlorophenol	ND	12	1.6	ug/l	
108-95-2	Phenol	ND	2.3	1.5	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.8	1.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.8	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.8	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.31	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.27	ug/l	
98-86-2	Acetophenone	ND	2.3	0.33	ug/l	
120-12-7	Anthracene	ND	1.2	0.34	ug/l	
1912-24-9	Atrazine	ND	5.8	0.57	ug/l	
100-52-7	Benzaldehyde	ND	5.8	3.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.26	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.60	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.3	0.42	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.3	0.34	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.35	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.3	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	5.8	0.62	ug/l	
86-74-8	Carbazole	ND	1.2	0.42	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

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> GW-9		<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9		<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.3	0.81	ug/l	
218-01-9	Chrysene	ND	1.2	0.34	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.3	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.3	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.3	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.3	0.36	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.3	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.3	0.54	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.8	0.42	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.44	ug/l	
132-64-9	Dibenzofuran	ND	5.8	0.31	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.3	0.65	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.3	0.36	ug/l	
84-66-2	Diethyl phthalate	ND	2.3	0.38	ug/l	
131-11-3	Dimethyl phthalate	ND	2.3	0.33	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.69	ug/l	
206-44-0	Fluoranthene	ND	1.2	0.37	ug/l	
86-73-7	Fluorene	ND	1.2	0.32	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	8.3	ug/l	
67-72-1	Hexachloroethane	ND	2.3	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.44	ug/l	
78-59-1	Isophorone	ND	2.3	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	5.8	1.3	ug/l	
99-09-2	3-Nitroaniline	ND	5.8	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.8	1.9	ug/l	
91-20-3	Naphthalene	ND	1.2	0.30	ug/l	
98-95-3	Nitrobenzene	ND	2.3	0.49	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.3	0.35	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.8	0.36	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.34	ug/l	
129-00-0	Pyrene	ND	1.2	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.3	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		10-83%
4165-62-2	Phenol-d5	16%		10-74%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-9	<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C	
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

### ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	94%		24-148%
4165-60-0	Nitrobenzene-d5	73%		38-129%
321-60-8	2-Fluorobiphenyl	81%		42-117%
1718-51-0	Terphenyl-d14	92%		14-132%

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

# Report of Analysis

<b>Client Sample ID:</b> GW-9		
<b>Lab Sample ID:</b> JB13738-9		<b>Date Sampled:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G67178.D	1	08/20/12	OPM	08/16/12	OP59063	G3G2385
Run #2							

Run #	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0098	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0041	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0039	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0064	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0043	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0052	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0024	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0034	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0031	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0062	ug/l	
72-20-8	Endrin	ND	0.010	0.0066	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0067	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0030	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0043	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0032	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0087	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0040	ug/l	
72-43-5	Methoxychlor	ND	0.021	0.0085	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-145%
877-09-8	Tetrachloro-m-xylene	79%		26-145%
2051-24-3	Decachlorobiphenyl	73%		10-141%
2051-24-3	Decachlorobiphenyl	75%		10-141%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-9		
<b>Lab Sample ID:</b> JB13738-9		<b>Date Sampled:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 08/14/12
<b>Method:</b> SW846 8082A SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF111688.D	1	08/22/12	GAD	08/16/12	OP59062	GEF4558
Run #2							

Run #	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	0.40	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	0.090	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	0.22	ug/l	
11100-14-4	Aroclor 1268	ND	0.52	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.52	0.063	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		27-144%
877-09-8	Tetrachloro-m-xylene	78%		27-144%
2051-24-3	Decachlorobiphenyl	78%		10-139%
2051-24-3	Decachlorobiphenyl	84%		10-139%

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

## Report of Analysis

<b>Client Sample ID:</b> GW-9	<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	321	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/27/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	206000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	623	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	91200	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	8610	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	18.6	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	108000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

(1) Instrument QC Batch: MA29255

(2) Instrument QC Batch: MA29266

(3) Instrument QC Batch: MA29267

(4) Instrument QC Batch: MA29274

(5) Prep QC Batch: MP66203

(6) Prep QC Batch: MP66271

RL = Reporting Limit

# Report of Analysis

<b>Client Sample ID:</b> GW-9	<b>Date Sampled:</b> 08/14/12
<b>Lab Sample ID:</b> JB13738-9F	<b>Date Received:</b> 08/14/12
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> Rockrose Fleet Site, Jackson Avenue, Long Island City, NY	

## Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	609	200	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Antimony	< 6.0	6.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Arsenic	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Barium	< 200	200	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Beryllium	< 1.0	1.0	ug/l	1	08/23/12	08/28/12 CS	SW846 6010C <sup>3</sup>	SW846 3010A <sup>5</sup>
Cadmium	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Calcium	178000	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Chromium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Cobalt	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Copper	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Iron	1160	100	ug/l	1	08/28/12	08/28/12 BL	SW846 6010C <sup>4</sup>	SW846 3010A <sup>5</sup>
Lead	< 3.0	3.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Magnesium	77800	5000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Manganese	7410	15	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Mercury	< 0.20	0.20	ug/l	1	08/27/12	08/27/12 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>6</sup>
Nickel	17.1	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Potassium	< 10000	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Selenium	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Silver	< 10	10	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Sodium	92600	10000	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Thallium	< 2.0	2.0	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Vanadium	< 50	50	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>
Zinc	< 20	20	ug/l	1	08/23/12	08/24/12 CS	SW846 6010C <sup>1</sup>	SW846 3010A <sup>5</sup>

- (1) Instrument QC Batch: MA29255
- (2) Instrument QC Batch: MA29266
- (3) Instrument QC Batch: MA29267
- (4) Instrument QC Batch: MA29274
- (5) Prep QC Batch: MP66203
- (6) Prep QC Batch: MP66271

RL = Reporting Limit

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB13738      **Client:** FLEMING LEE SHUE      **Project:** ROCKROSE FLEET SITE  
**Date / Time Received:** 8/14/2012 16:30      **Delivery Method:** Accutest Courier      **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (5/5); #2: (6/6); #3: (6/6); #4: (5/5); 0

<u>Cooler Security</u>		<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Cooler temp verification:	_____		
3. Cooler media:	_____		
4. No. Coolers	_____		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<u>Sample Integrity - Condition</u>		<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Condition of sample:	Intact _____		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments -2, -3 2 OF 3 VO'S REC'D WITH MACROS.

4.1  
4

**Accutest Job Number:** JB13738

**CSR:** Tammy McCloskey

**Response Date:** 8/15/2012

**Response:** proceed with analysis as noted.

4.1

4

# **APPENDIX D**

## *Site Survey*

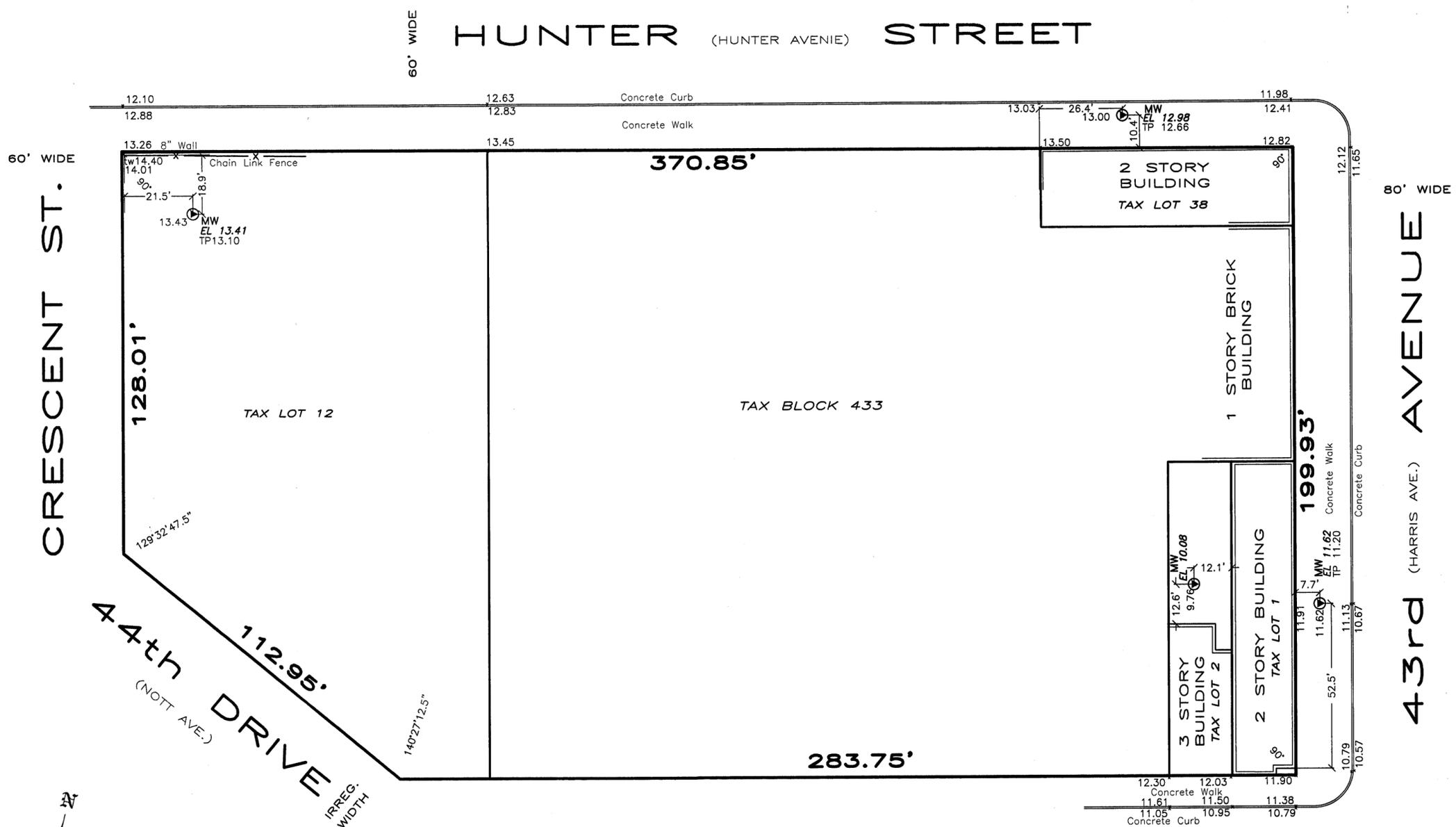
REV	DATE	DESCRIPTION	ck
—	09-06-12	MONITORING WELL LOCATION SURVEY	
A			

**LEGEND**

ASPH.....ASPHALT	PR.....PEDESTRIAN RAMP
BK.....BRICK	RET.....RETAINING
BSMT.....BASEMENT	RIM.....RIM ELEVATION SEWER MANHOLE
CC.....CURB CUT	SFCR.....STEEL FACED CURB ROUND
CCR.....CONCRETE CURB ROUND	STY.....STORY
CD.....CELLAR DOOR	TB.....TOP OF BANK ELEVATION
CLF.....CHAIN LINK FENCE	φ.....TRAFFIC LIGHT
CO.....CATCH BASIN CLEAN OUT	TEL.....TELEPHONE
CONC.....CONCRETE	TP.....TREE PIT
CRF.....CHAIN ROPE FENCE	d.....TRAFFIC SIGN
CWA.....CELLAR WINDOW AREA	TW.....ELEVATION AT TOP OF WALL
DR.....DRAIN	UP.....UTILITY POLE
EL.....ELEVATION	VU.....VALVE UNKNOWN
FAB.....FIRE ALARM BOX	VLTU.....VAULT UNKNOWN
FC.....FILL CAP	VP.....VENT PIPE
FL EL.....FLOOR ELEVATION	WV.....WATER VALVE
GP.....GUARD POLE	12"G.....GAS MAIN WITH SIZE
GV.....GAS VALVE	12"S.....SEWER MAIN WITH SIZE
IF.....IRON FENCE	12"W.....WATER MAIN WITH SIZE
INL.....CATCH BASIN INLET ELEVATION	■.....CATCH BASIN
INV.....SEWER INVERT ELEVATION	Ⓜ.....ELECTRIC MANHOLE / VAULT
L.....LIGHT POLE	Ⓛ.....FIRE MANHOLE
MB.....MAIL BOX	Ⓞ.....GAS MANHOLE
MHU.....UNKNOWN MANHOLE	Ⓢ.....SEWER MANHOLE
OF.....OIL FILL	Ⓣ.....TELEPHONE MANHOLE
OHW.....OVERHEAD WIRES	Ⓤ.....WATER MANHOLE
P.....POLE	Ⓥ.....TRAFFIC VAULT
PAVT.....PAVEMENT	Ⓜ.....HYDRANT
PM.....PARKING METER	ⓉB.....TREE WITH SIZE
PMULT.....POLE, MULTIPLE USAGE	17.0.....ESTABLISHED/LEGAL GRADE
Ⓜ.....MONITORING WELL	
TP.....TOP OF PIPE ELEVATION	

COUNTY: QUEENS      SCALE: 1" = 30'  
 TAX BLOCK 433      LAND BLOCK NO.  
 TAX LOTS AS SHOWN      STANDARD:  
 LONG ISLAND CITY STANDARD

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**GENERAL NOTES**

- ELEVATIONS AND ESTABLISHED GRADES SHOWN HEREON REFER TO THE BOROUGH OF QUEENS TOPOGRAPHICAL BUREAU DATUM WHICH IS 2.725 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK N.J. 1929
- THIS SURVEY IS NOT A TITLE SURVEY AND IS NOT TO BE USED FOR TITLE PURPOSES. ALL PHYSICAL FACTS ARE NOT SHOWN.



ESTABLISHED 1876 \* SUCCESSOR TO:  
 B.G. MEINIKHEIM C.S.\*C.U. POWELL C.E.,C.S.\*L.C.L. SMITH C.S.\*NATHAN CAMPBELL C.E.,C.S.\*A.U. WHITSON C.E.,C.S.\*  
 WILLIAM L. SAVACOL C.E.,L.S.,C.S.\*A.U. WHITSON INC. C.E.,C.S.\*G. WEBER L.S.,C.S.\*C. STIDOLPH R.A.,L.S.\*WHITSON &  
 POWELL INC. P.E.,L.S.,C.S.\*KELLER & POWELL P.E.,L.S.,C.S.\*LOUIS MONTROSE C.E.,L.S.,C.S.\*FRED J. POWELL P.E.,L.S.,C.S.\*

**MONTROSE**  
 SURVEYING CO., LLP.  
 CITY & LAND SURVEYORS  
 116 20 METROPOLITAN AVE. RICHMOND HILL, NY 11418-1090 (718) 849-0600

# **APPENDIX E**

## ***Groundwater Contour Map***



Environmental Management & Consulting

158 West 29th Street, 9th Fl.  
New York, NY 10001

Fleet Site  
Block 433  
Lots: 2,4,6, 8, 12, 31, 35-39, 41

### APPENDIX E

## GROUNDWATER CONTOUR MAP

Date  
**October 2012**

Project Number  
**10020-011**

### LEGEND

-  TAX LOT BOUNDARY
-  GROUNDWATER CONTOUR LINE
-  GROUNDWATER MONITORING WELL
-  -3.08 ELEVATION
-  DIRECTION OF GROUNDWATER FLOW

HUNTER STREET (NARROW)

-3.83

BLDG A

BLDG B

GW-8 (ALT)

LOT 31

LOT 35

LOT 36

LOT 37

LOT 38

LOT 12  
GW-5  
-3.08

-3.2

-3.3

-3.4

-3.5

-3.6

-3.7

-3.8

-3.9

-4.0

SB-8

SB-10

LOT 39

-4.1

LOT 41

-4.2

LOT 8

LOT 6

LOT 5

LOT 4

LOT 2

GW-1  
-4.37

-4.0

-4.3

-4.39  
GW-1

43RD AVENUE (WIDE)

44TH DRIVE (WIDE)

JACKSON AVENUE (WIDE)



\* ELEVATIONS REFERENCED ARE OF GROUNDWATER IN RELATION TO SURVEYED ELEVATIONS, WHICH REFER TO THE BOROUGH OF QUEENS TOPOGRAPHICAL BUREAU DATUM WHICH IS 2.725 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK N.J. 1929

FILE: P:\Project Files\10020 - Rockrose Construction\011 Fleet Site (Jackson Ave)\Figures\August 2012 Figures\Groundwater Contour Map\_2.dwg DATE: 10/16/2012