



Draft Environmental Impact Statement

Appendix M

Phase II: Environmental Site Assessment

Remedial Closure Report
Remedial Action Work Plan,
Phase II Subsurface Investigation Report



P.O. Box 2020, Monroe New York 10949
Tel: (845) 774 · 8000 | cpcnynj@gmail.com

CLOVEWOOD
Remedial Closure Report
(505 Clove Road)
Tax Lots S/B/L: 208-1-2 and 208-1-3
Village of South Blooming Grove
Orange County, New York

Prepared For:
Simon Gelb,
CPC
P.O. Box 2020
Monroe, NY 10949

Prepared by:
Matthew M. Carroll, P.E. &



Tenen Environmental, LLC
121 West 27th Street, Suite 702
New York, NY 10001

September 30, 2016

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 BACKGROUND	2
2.1 Prior Site Investigations.....	2
2.2 Topography and Geology	3
2.3 Hydrogeology	3
3.0 REMEDIAL ACTIONS.....	4
3.1 Removal of Aboveground Fuel Oil Tank	4
3.2 Post-Removal Soil Screening.....	4
3.3 Solid Waste and Scrap Metal Removal and Disposal.....	4
3.4 Soil Capping	5
3.5 Non-Hazardous Solid Wastes	5
4.0 CONCLUSIONS.....	6

FIGURES

FIGURE 1 – Site Location Map

APPENDICES

APPENDIX A – Remedial Action Work Plan (RAWP)

APPENDIX B – NYSDEC PBS Certificate

APPENDIX C – Disposal Manifests

APPENDIX D – Photo Log Documenting Tank Removal Activities

APPENDIX E – Receipts from the Disposal Facility and Scrap Yard

APPENDIX F – Fill Material Analytical Results

Clovewood Remedial Closure Report

CERTIFICATION

I, Matthew Carroll, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the Clovewood Site in the Village of South Blooming Grove, Orange County, New York.

I, Mohamed Ahmed, am a qualified Environmental Professional. I had primary direct responsibility for implementation of the remedial program for the Clovewood Site in the Village of South Blooming Grove, Orange County, New York.

We certify that the Remedial Action Work Plan dated August 23, 2015 related to the removal of one 4,900-gallon fuel oil tank, one 550-gallon water tank, scrap metal and surface solid waste was implemented and that all requirements in this document has been substantively complied with. We certify one 4,900-gallon fuel oil tank, one 550-gallon water tank, scrap metal and surface solid waste from the Clovewood Site were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Matthew M. Carroll, PE
Name

091629
PE License Number



Signature

9/21/2016
Date

Mohamed Ahmed, CPG, Ph.D.
QEP Name



QEP Signature

09/21/16
Date



1.0 INTRODUCTION

Tenen Environmental (Tenen), on behalf of CPC, has overseen remedial actions at the Clovewood Site, in the Village of South Blooming Grove, Orange County, New York (the Site), including the remediation of the area at the former workshop, the removal of the out-of-service fuel oil tank, as well as the water tank, and the removal of scrap metals and surface solid waste.

A Phase I Environmental Site Assessment (dated 12/8/14) and a Phase II Subsurface Investigation (dated 6/15/15) were performed to compile and evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP) for the Site, which was completed on August 23, 2015. The performed remedial actions described in this Remedial Closure Report (RCR) fulfilled the remedial objectives defined in the RAWP, complied with applicable environmental standards, criteria and guidance, conformed to applicable laws and regulations.

The Phase I, Phase II, and the RAWP were submitted on August 27, 2015 to both the New York State Department of Environmental Conservation (NYSDEC) and the Village of South Blooming Grove for review. On November 17, 2015 the NYSDEC responded with recommendations and stated that, “None of the spills have any significant impacts remaining.”; On June 7, 2016, the NYSDEC issued the PBS Certificate noting that the fuel oil tank is to be removed (Appendix B): the tank was removed on June 23, 2016. This RCR was prepared to document the remedial actions that were completed in accordance with the NYSDEC applicable regulations., however, as there were no remedial actions proposed that required a written RAWP, a no further action letter was not required by NYSDEC, and no further approval or documentation is needed from NYSDEC..

The Clovewood Site is located on the east side of NYS Route 208 and County Route 27 (with a physical address of 505 Clove Road, Monroe, NY 10950) in the Village of South Blooming Grove, Orange County, New York. The Site is comprised of two Tax Map parcels: Section 208, Block 1, Lots 2 & 3, totaling 708.2-acres in size. The Site is in the Blaggs Clove area of South Blooming Grove.

Lot 3 (208-1-3) is 670.3 acres and is occupied by unused farming buildings, vacant bungalow-type residences, a single-family home, an abandoned garage structure and other small utility buildings. Lot 2 (208-1-2) is an undeveloped 37.9-acre parcel completely surrounded by Lot 3 that is predominantly forested. A site location map is provided as **Figure 1**.

All remedial action described in this RCR were performed in accordance with a Site-specific Health and Safety Plan (HASP) presented in the RAWP. The HASP addressed the Site-specific hazards, identified contaminants of concern and safety requirements associated with the removal of the ASTs and disposal and off-site disposal of solid waste in accordance with NYSDEC regulations.

2.0 BACKGROUND

2.1 Prior Site Investigations

A Phase I Environmental Site Assessment (Phase I ESA) was performed by Tenen Environmental in December 2014. During the Phase I ESA Site visit, piles of solid waste and debris; discarded petroleum storage tanks, including an excavated tank with evidence of a release; and unmarked drums and containers were observed. The 2014 Phase I ESA identified the following Recognized Environmental Conditions (RECS):

- piles of waste and debris;
- petroleum storage tanks, including an excavated UST with evidence of a release;
- unmarked drums and pails;
- historic uses of the Site, including a mine, golf course, debris disposal, farmland and orchard; and,
- the multiple spill cases on the Site that have been closed by NYSDEC; these are considered *historical recognized environmental conditions*.

A Phase II subsurface investigation was conducted to address the recommendations contained in the Phase I ESA. The purpose of this investigation was to assess the soil conditions at the former Lake Anne golf course area, former workshop and near the discarded underground tanks and drums, and to determine the extent of solid waste identified in the Phase I ESA.

The Phase II subsurface investigation performed on May 20, 2015, included excavation of 17 test pits and soil sampling. Four of seventeen test pits were excavated in the vicinity of the discarded tanks, one at the former repair shop, one in the former golf course area, and eleven near the solid waste piles. A hydrogeological study including the installation of groundwater wells is underway. Groundwater samples will be collected and analyzed to verify if groundwater on the Site has been impacted.

A total of four soil samples were analyzed for full scan volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). The soil samples collected from the solid waste pile areas (TP-8 and TP-11) were also analyzed for Target Analyte List (TAL) metals. The soil sample collected from the former golf course area (TP-16) was only analyzed for pesticides.

A tank inventory was also performed to determine the total number of tanks at the Site. A total of nineteen 275-gallon ASTs associated with the existing bungalow-type residences and other buildings, one 550-gallon AST and one 4,900-gallon AST were present at the Site. Note, the 4,900-gallon AST was mistakenly identified in the Phase II report and RAWP as a 10,000-gallon AST. See Sections 3.1 and 3.3 for further detail.

The subsurface investigation concluded the following:

- No VOCs were detected in any soil sample at concentrations above the New York State Part 375 Unrestricted Use soil cleanup objectives (SCOs);
- SVOCs, specifically polyaromatic hydrocarbons (PAHs), were detected in one soil sample at levels exceeding the Part 375 Restricted Residential Use SCOs. This area was capped pursuant to applicable regulations (see Section 3.4 below);
- Several metals typical of fill material, including copper, iron, and zinc, were detected above the Unrestricted or Residential Use SCOs (see remedial process in Section 3.3 below);
- Two pesticides, 4,4'-DDE and 4,4'-DDT, were detected above the Unrestricted Use SCOs but below the Residential Use SCOs in the former golf course area (see remedial process in Section 3.3 below); and
- Non-hazardous solid waste was observed in ten test pits but is confined to a small area of less than two acres that is not proposed for development (see remedial in Section 4.2 below).

2.2 Topography and Geology

The Site lies at elevations ranging from approximately 1,350 feet along the eastern boundary to approximately 450 feet in the southwest corner of the Site. The eastern border is the base of Shunnemunk Mountain. Groundwater is present at depths ranging from approximately at the surface to several hundred feet below grade.

2.3 Hydrogeology

According to the December 2014 Phase I ESA, groundwater flow is assumed to be west-southwest. Groundwater is used as a source of potable water in this area of New York. A hydrological study is currently being completed at the Site.

3.0 REMEDIAL ACTIONS

3.1 Removal of Aboveground Fuel Oil Tank

One 4,900-gallon out-of-service #2 fuel oil AST was removed from the property in accordance with the RAWP. The AST decommissioning and removal was conducted by American Environmental Assessment of Wyandanch, New York (American) on June 1, 2016. Oversight during tank removal was provided by Tenen Environmental. A Tenen's field geologist preformed the oversight during the tank removal activities.

Prior to removal, the AST was registered with the New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage (PBS) Unit and NYSDEC was advised regarding the tank removal start date (a copy of the NYSDEC PBS certificate is included in Appendix B).

Oily water found in the AST was pumped into a 55-gallon drum. The interior of the AST was accessed by cutting a large opening on the side and cleaned using a Butterworth jet-tool and detergent. After the evacuation of any residual vapors, a worker entered the tank and, using a shovel, scraped any residual petroleum sludge from the interior of the tank. Oily water, sludge and absorbent material from the cleaning process were contained into three 55-gallon drums.

A total of three 55-gallon drums of petroleum-contaminated liquid, sludge and absorbent material were removed and transported to Clean Water of New York, Staten Island, NY for disposal. A copy of the disposal manifest is provided in Appendix C. Visual inspection of the AST did not indicate holes or leaks. The tank was then hoisted from the ground, crushed, and hauled off-site for disposal. A photo log documenting the tank removal activities is included in Appendix D.

3.2 Post-Removal Soil Screening

Following the removal of the AST, Tenen's on-site representative inspected the soil below the tanks for evidence of petroleum impacts. A photoionization detector (PID) was used to identify the presence of any petroleum contamination in the soil. No staining soil, petroleum odor, or elevated PID readings were observed under the tank. Therefore, no soil samples were collected from under the tank. A photo log documenting the soil conditions under the AST is included as Appendix E.

3.3 Solid Waste and Scrap Metal Removal and Disposal

Solid waste and scrap metal, including one 550-gallon water tank, were removed and disposed off-site. Solid waste was disposed at Taylor-Montgomery facility of Montgomery, New York. Scrap metal was shipped to Middletown Auto Wreckers of Middletown, New York.

A licensed excavation contractor was retained to handle the solid waste removal and disposal. Solid waste was collected from different areas on the Site and piled near the Site entrance on Clove Road. A backhoe was used to load a 20-yard dump truck with the solid waste. A total of four trucks loads were removed and sent to Taylor-Montgomery facility for disposal. Tenen's field geologist preformed the oversight during the removal of scrap metals and surface solid waste activities.

Scrap metal, including discarded tanks, were collected from different areas on the Site and loaded to a 20-yard container. A total of 6.74 tons of metal were received by Middletown Auto Wreckers. Copies of the receipts from the disposal facility and scrap yard are provided in Appendix F.

3.4 Soil Capping

Soil with elevated levels of SVOCs was encountered in the workshop area located approximately at coordinates 41deg, 23'13"N 74deg, 9'39" W. The soil in the workshop area with elevated levels of SVOCs capped with at least two feet of clean fill material and was used as a cover to prevent the direct contact with the impacted soil as indicated in the NYSDEC Commissioner Policy (CP-51), October 21, 2010. Material used to cover the soil was brought from another part of the Site where it had been stored to be used in the former golf course. A demarcation layer composed of plastic orange material was placed below the imported fill material. Tenen collected one composite sample from the fill material and analyzed VOCs, SVOCs, pesticides, PCBs, and metals.

The fill material results were compared to the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use SCOs as listed in 6 NYCRR Part 375-6.8(a) and the Restricted Commercial Use SCOs as listed in 6 NYCRR Part 375-6.8(b) and the NYSDEC DEC Policy CP-51.

No VOCs, SVOCs, pesticides, PCBs, or metals were detected in the fill material samples at concentrations above any of the regulatory thresholds. A copy of the fill material analytical results is provided in Appendix G.

3.5 Non-Hazardous Solid Wastes

This RCR was prepared to document the remedial actions that were completed and does not include remediation of buried solid waste confined to an area of less than two acres that is not proposed for building. Likewise it does not include removal of the ASTs associated with the bungalow type buildings identified on the Site during the Phase II investigation. ASTs associated with the bungalow-type buildings (all of which are 275 gallons or less in size) will be removed in accordance with the local and state regulations prior to the demolition of those buildings.

4.0 CONCLUSIONS

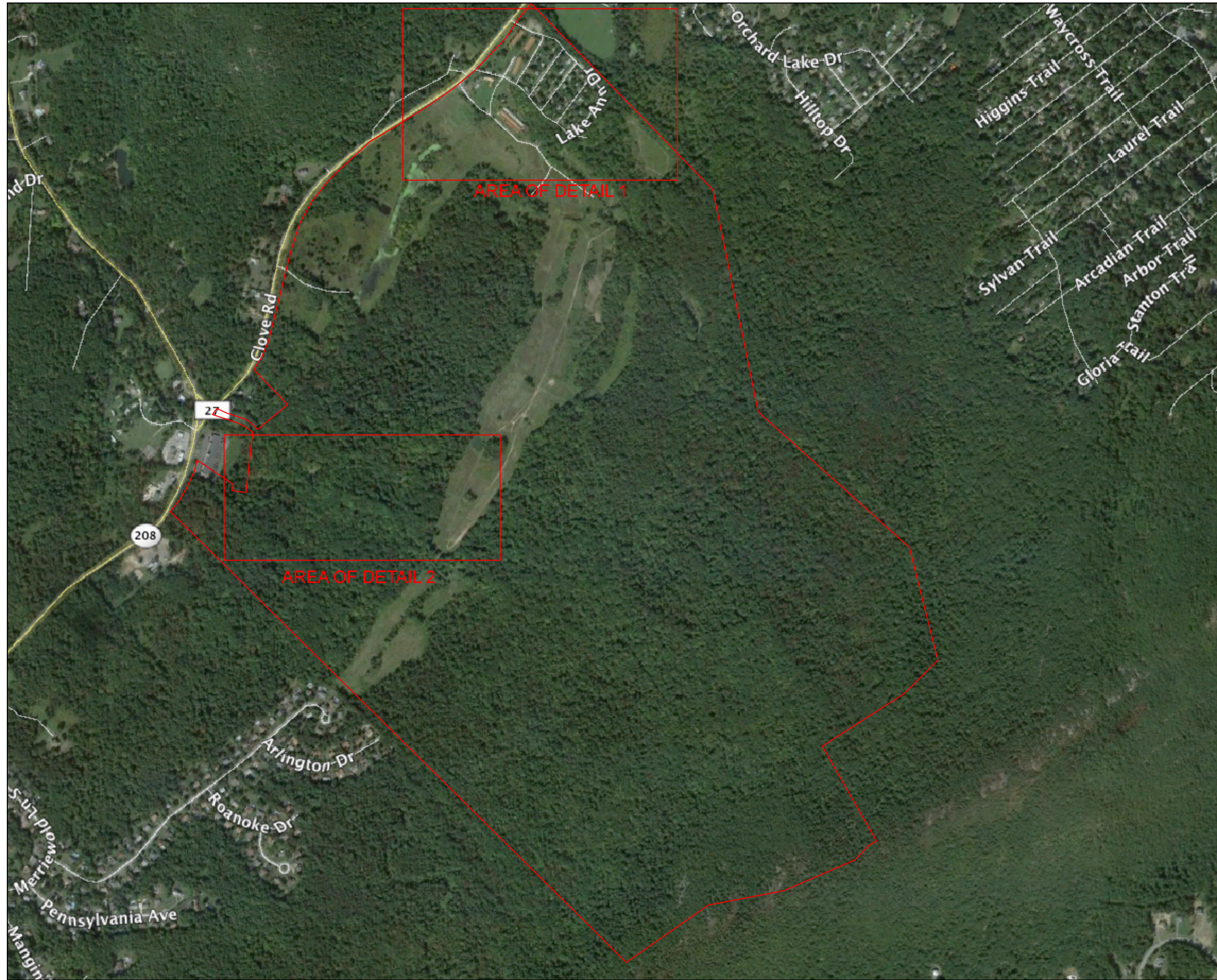
Based on the implementation of the remedial actions described in Section 3, Tenen has the following conclusions:

- One 4,900-gallon out-of-service aboveground fuel oil tank was removed and disposed off-site in accordance with the NYSDEC PBS requirements and the tank was administratively closed in NYSDEC's records.
- One 550-gallon water tank was removed and disposed off-site.
- Solid waste at the Site was collected, removed and disposed off-site.
- Scrap metal, including discarded tanks, were removed and disposed off-site.
- Soil with elevated levels of SVOCs was capped with two-feet of material that meets the NYSDEC Unrestricted Use SCOs to prevent the direct contact.
- A no further action letter was not required by NYSDEC.

FIGURES



0 400 800
SCALE: 1" = 800'



RE: GOOGLE EARTH PRO AERIAL, 9/19/2013

DRAWING TITLE.

SITE LOCATION

DRAWING NO.

FIGURE 1

CONSULTANT

TENEN ENVIRONMENTAL

TENEN ENVIRONMENTAL, LLC
121 West 27th Street
Suite 1004
New York, NY 10001
O: 646-606-2332
F: 646-606-2379

CLIENT

505 CLOVE ROAD
SOUTH BLOOMING
GROVE, NY

DRAWN BY

MC

CHECKED BY

MM

DATE

JUNE 2015

SCALE

AS NOTED

APPENDIX A

Remedial Action Work Plan (RAWP)

**Remedial Action Work Plan
Clovewood
505 Clove Road
Tax Lots 208-1-2 and 208-1-3
Village of South Blooming Grove, New York**

Prepared For:
CPC LLC
P.O. Box 2020
Monroe, NY 10949



Prepared by:



Tenen Environmental, LLC
121 West 27th Street, Suite 1004
New York, NY 10001

August 23, 2015

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 BACKGROUND	2
2.1 PRIOR SITE INVESTIGATIONS.....	2
2.2 TOPOGRAPHY AND GEOLOGY	3
2.3 HYDROGEOLOGY	3
3.0 PROPOSED REMEDIAL ACTION.....	4
3.1 REMOVAL OF ASTs	4
3.2 POST-EXCAVATION SOIL SAMPLES.....	4
3.3 SOLID WASTE REMOVAL AND DISPOSAL	4
<i>CHARACTERIZATION OF EXCAVATED MATERIALS.....</i>	<i>5</i>
<i>SOIL WASTE EXCAVATION, LOAD-OUT AND DEPARTURE.....</i>	<i>5</i>
<i>OFF-SITE TRANSPORT OF MATERIALS</i>	<i>5</i>
<i>OFF-SITE DISPOSAL OF MATERIALS.....</i>	<i>5</i>
3.4 SOIL REMOVAL.....	6
3.5 WORK SCHEDULE	6
4.0 REMEDIAL ACTION REPORT.....	7

FIGURES

FIGURE 1 – Site Location Map

FIGURE 2 – Site Plan

APPENDICES

APPENDIX A – Health and Safety Plan

APPENDIX B – Phase II Subsurface Investigation Report

1.0 INTRODUCTION

Tenen Environmental (Tenen) has prepared this Remedial Action Work Plan (RAWP) for Clovewood, located at 505 Clove Road, Village of South Blooming Grove, Orange County, New York (the Site). The 708.2-acres Site is comprised of two Lots (2 and 3), both located on Section 208, Block 1 of the Orange County Tax Map. The Site is in the Blaggs Clove area of South Blooming Grove.

Lot 3 (208-1-3) is 655.7 acres and is occupied by unused farming buildings, vacant bungalow-type residences, a single-family home, an abandoned garage structure and several small utility buildings. Lot 2 (208-1-2) is an undeveloped 38.8-acre parcel completely surrounded by Lot 3 that is predominantly forested. A site location map is provided as **Figure 1**. A site plan has been included as **Figure 2**.

This RAWP has been prepared for submittal to the Village of South Blooming Grove, New York and provides a description of the solid waste handling and disposal activities that will be implemented prior to the planned development of the property. The RAWP also describes the procedures that will be used during the removal of the aboveground storage tanks (ASTs). This RAWP includes health and safety procedures that will be used during the removal of the ASTs and excavation and disposal of the solid waste present at the Site.

The Site-specific Health and Safety Plan (HASP) in Appendix A addresses Site-specific hazards, identified contaminants of concern and safety requirements associated with the removal of the ASTs and excavation and off-site disposal of solid waste in accordance with ASTM and OSHA guidelines.

2.0 BACKGROUND

2.1 Prior Site Investigations

A Phase I Environmental Site Assessment (Phase I ESA) was performed by Tenen Environmental in December 2014. During the Phase I ESA site visit, piles of waste and debris; discarded petroleum storage tanks, including an excavated tank with evidence of a release; and unmarked drums and containers were observed. The 2014 Phase I ESA identified the following Recognized Environmental Conditions (RECS):

- piles of waste and debris;
- petroleum storage tanks, including an excavated UST with evidence of a release;
- unmarked drums and pails;
- historic uses of the Site, including a mine, golf course, debris disposal, farmland and orchard; and,
- the multiple spill cases on the Site that have been closed by NYSDEC; these are considered *historical recognized environmental conditions*.

A Phase II subsurface investigation was conducted to address the recommendations contained in the Phase I ESA. The purpose of this investigation was to assess the soil conditions at the former golf course area, former repair shop and near the discarded underground tanks and drums, and to determine the extent of solid waste identified in the Phase I ESA.

The Phase II subsurface investigation performed on May 20, 2015, included excavation of 17 test pits and soil sampling. Four of seventeen test pits were excavated in the vicinity of the discarded tanks, one at the former repair shop, one in the former golf course area, and eleven near the solid waste piles. Groundwater was not sampled in this investigation.

A total of four soil samples were analyzed for full scan volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs). The soil samples collected from the solid waste pile areas (TP-8 and TP-11) were also analyzed for Target Analyte List (TAL) metals. The soil sample collected from the former golf course area (TP-16) was only analyzed for pesticides. A copy of the Phase II Subsurface Investigation Report is included in Appendix B.

A tank inventory was also performed to determine the total number of tanks at the Site. A total of nineteen 275-gallon aboveground storage tanks (ASTs), one 550-gallon AST and one 10,000-gallon AST were present at the Site.

The subsurface investigation concluded the following:

- No VOCs were detected in any soil sample at concentrations above the New York State Part 375 Unrestricted Use soil cleanup objectives (SCOs).

- SVOCs, specifically polyaromatic hydrocarbons (PAHs), were detected in one soil sample at levels exceeding the Part 375 Restricted Residential Use SCOs.
- Several metals typical of fill material, including copper, iron, and zinc, were detected above the Unrestricted or Residential Use SCOs.
- Two pesticides, 4,4'-DDE and 4,4'-DDT, were detected above the Unrestricted Use SCOs but below the Residential Use SCOs in the former golf course area.
- Solid waste including household refuse consisting of bottles, tires, plastic bags, old cloth, and roof shingles were observed in ten test pits; these materials extended to depths ranging between three and eleven feet below grade.

2.2 Topography and Geology

The Site lies at elevations ranging from approximately 1,100 feet along the eastern boundary to approximately 500 feet in the southwest corner of the Site, as measured from the National Geodetic Vertical Datum of 1929 (an approximation of mean sea level). The eastern border is the base of Shunnemunk Mountain. Groundwater is present at depths ranging from the surface to several hundred feet below grade.

2.3 Hydrogeology

According to the December 2014 Phase I ESA, groundwater flow is assumed to be west-southwest. Groundwater is used as a source of potable water in this area of New York. A hydrological study is currently being completed at the Site.

3.0 PROPOSED REMEDIAL ACTION

3.1 Removal of ASTs

A total of nineteen 275-gallon ASTs, one 550-gallon AST and one 10,000-gallon AST are present at the Site.

Prior to the removal of the ASTs, they will be registered with the NYSDEC Petroleum Bulk Storage (PBS) Unit.

The removal of the ASTs will follow the standard industry practices. The remaining product and/or water will be first pumped from the tanks, and the lines will be drained. Next, vapors inside the UST systems will be evacuated. After the evacuation of any residual vapors, the tanks will be properly decommissioned, then cleaned, and hauled off-site for disposal.

All field work activities including tanks removal will be performed by a licensed tank removal contractor in accordance with federal, state, and local regulations and with a site-specific health and safety plan (HASP).

3.2 Post-excavation Soil Samples

Following the removal of the ASTs, Tenen's on-site representative, will inspect the soil below the tanks for evidence of free-product contamination. A photoionization detector (PID) will be used to identify the presence of any petroleum contamination in the soil. At all locations where soil is stained, exhibits petroleum odors, or has above-background organic vapor readings, soil will be excavated until the sides and bottom of the excavation no longer show evidence of petroleum contamination. Excavated soil will be stockpiled on and covered with plastic sheeting on the Site until offsite disposal is arranged. One post-excavation soil sample will be collected at the bottom of the excavation.

If evidence of soil contamination from petroleum is not found in the areas underneath the ASTs, post-excavation soil samples will not be collected. Any soil samples collected will be analyzed for VOCs using the EPA Method 8260 and SVOCs using the EPA Method 8270.

3.3 Solid Waste Removal and Disposal

Solid waste removal and disposal procedures will be implemented to excavate, remove, load, and dispose of solid waste to appropriate disposal facilities in accordance with applicable federal, state, and local laws and regulations.

Characterization of Excavated Materials

Solid waste that is transported off-Site for disposal will be describe and/or sampled, if required by the receiving facility, in compliance with applicable laws and regulations.

Solid Waste Excavation, Load-Out and Departure

A licensed excavation contractor will be retained to handle the solid waste removal and disposal. Excavation equipment such as an excavator and/or backhoe will be used to direct loading the solid waste into containers and truck trailers for off-site disposal.

A professional engineer (PE) or qualified environmental professional (QEP) will oversee the remedial action and will include the following:

- oversee remedial work and the excavation and load-out of excavated material;
- ensure that the presence of utilities and easements on the Site have been investigated by the excavation contractor;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site;
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during the solid waste removal and disposal.

Off-Site Transport of Materials

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used.

Off-Site Disposal of Materials

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of solid waste material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Applicant to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material. The letter will provide the project identity and the name and phone number of the PE/QEP or Applicant; and (2) a letter from the disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the Remedial Action Report (RAR).

The RAR will include an itemized account of the destination of all materials removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the RAR.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations.

Waste characterization will be performed for off-site disposal in a manner required by the receiving facility and in conformance with its applicable permits. A manifest system for off-Site transportation of exported materials will be employed. Manifest information will be reported in the RAR.

3.4 Soil Removal

Soil with elevated levels of SVOCs was encountered in the workshop area located southeast of Lake Ann Drive, accessible by a service road, approximately at coordinates 41deg, 23'13"N 74deg, 9'39" W. The soil will be excavated and disposed off-site if the area is redeveloped. If this area is landscaped and the impacted soil is not removed, at least two feet of clean fill material will be used as a cover to prevent the direct contact with the impacted soil.

3.5 Work Schedule

The tentative schedule for implementation and completion of the proposed remedial action has been estimated at a total of approximately ten to fifteen days. Removal of the ASTs is estimated to take about five to seven days. Solid waste excavation, removal and disposal is estimated to take approximately five to eight days.

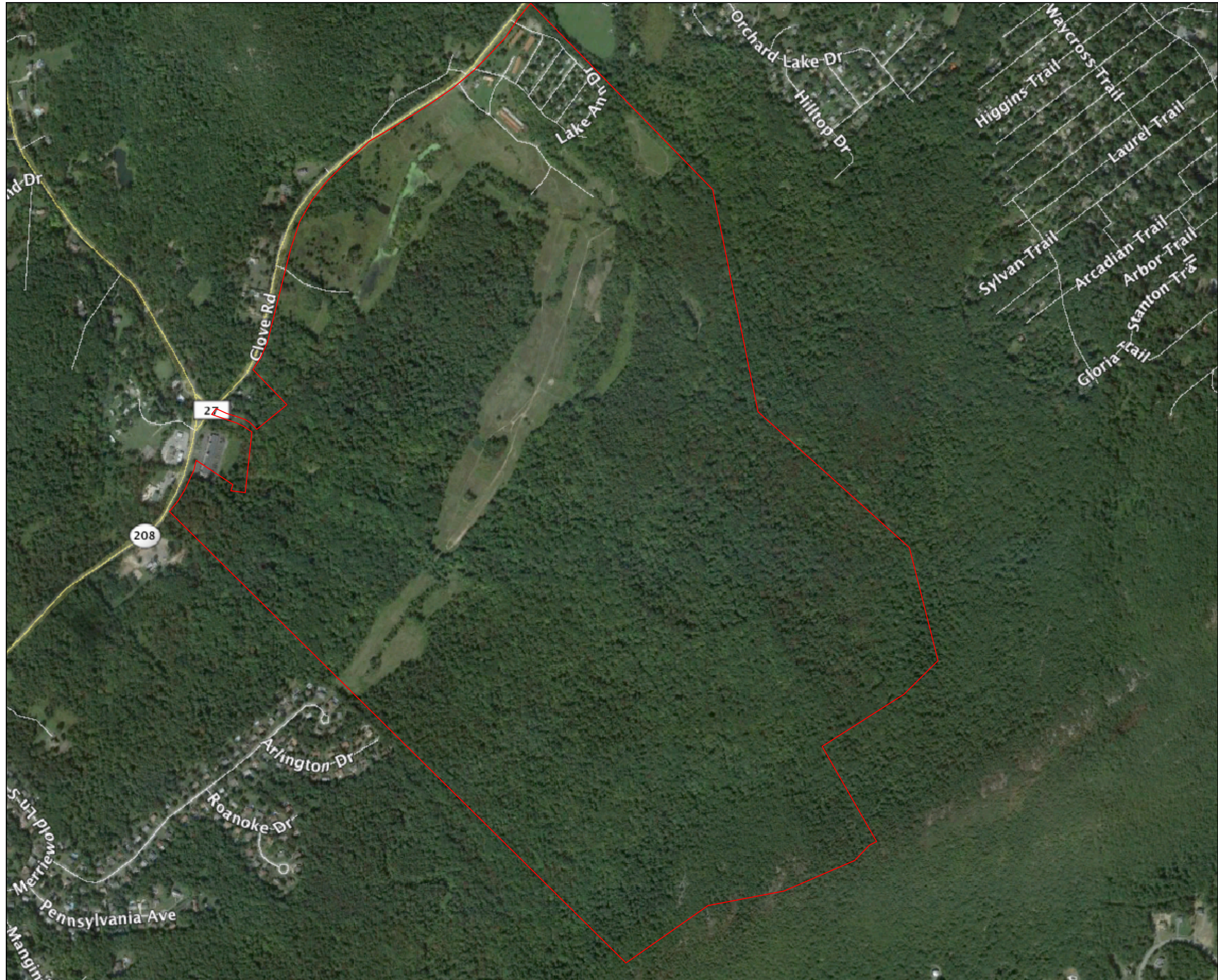
4.0 REMEDIAL ACTION REPORT

A Remedial Action Report (RAR) will be prepared following implementation of the remedial action defined in this RAP. The RAR will describe the field activities, ASTs removal, waste disposal manifests, and analytical results (if soil or/and solid waste characterization samples are collected). The RAR will also will document that the remedial work required under this RAP has been completed and has been performed in compliance with this plan.

FIGURES



0 400 800
SCALE: 1" = 800'



RE: GOOGLE EARTH PRO AERIAL, 9/19/2013

DRAWING TITLE: SITE LOCATION		DRAWN BY MC	CONSULTANT TENEN ENVIRONMENTAL		CLIENT 505 CLOVE ROAD SOUTH BLOOMING GROVE, NY
CHECKED BY MM		DATE DECEMBER 8, 2014		TENEN ENVIRONMENTAL, LLC 121 West 27th Street Suite 1004 New York, NY 10001 O: 646-606-2332 F: 646-606-2379	
SCALE: AS NOTED		DRAWING NO. FIGURE 1			

APPENDIX A

Health and Safety Plan

Appendix A
Site-Specific Construction Health and Safety Plan

For
Clovewood
Remedial Action Plan

505 CloveRoad
Tax Lots 208-1-2 and 208-1-3
Village of South Blooming Grove, New York

Prepared for:
CPC LLC
P.O. Box 2020
Monroe, NY 10949

Prepared by:



121 West 27th Street, Suite 303
New York, NY 10001

August 2015

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Scope of HASP.....	1
2.0	PROJECT SAFETY AUTHORITY.....	2
2.1	Designated Personnel.....	2
3.0	HAZARD ASSESSMENT AND CONTROL MEASURES.....	3
3.1	Human Exposure Pathways.....	3
3.2	Chemical Hazards.....	3
3.3	Physical Hazards.....	4
4.0	COMMUNITY AIR MONITORING PROGRAM.....	7
5.0	PERSONAL PROTECTIVE EQUIPMENT.....	9
6.0	EXPOSURE MONITORING.....	10
7.0	SITE ACCESS.....	11
8.0	WORK AREAS.....	12
9.0	DECONTAMINATION PROCEDURES.....	13
10.0	GENERAL SAFE WORK PRACTICES.....	14
11.0	EMERGENCY PROCEDURES.....	15
11.1	Route to Hospital.....	16
11.2	Emergency Contacts.....	17
12.0	TRAINING.....	18
13.0	MEDICAL SURVEILLANCE.....	19

Figures

Figure 1 – Route to Hospital (page 16)

Tables

Table 1 – Emergency Contact Information (page 17)

Appendices

Appendix A – Acknowledgement of HASP

Appendix B – Injury Reporting Form (OSHA Form 300)

Appendix C – Material Safety Data Sheets

1.0 INTRODUCTION

This Site-Specific Construction Health and Safety Plan (HASP) has been prepared in conformance with the Occupational Safety and Health Administration (OSHA) standards and guidance that govern site investigation activities, other applicable regulations, and Tenen Environmental LLC (Tenen) health and safety policies and procedures. The purpose of this HASP is the protection of Tenen field personnel and others during the implementation of the Site Characterization Work Plan.

The 708.2-acres Site is comprised of two Lots (2 and 3), both located on Section 208, Block 1 of the Orange County Tax Map. The Site is in the Blaggs Clove area of South Blooming Grove.

Lot 3 (208-1-3) is 655.7 acres and is occupied by unused farming buildings, vacant bungalow-type residences, a single-family home, an abandoned garage structure and several small utility buildings. Lot 2 (208-1-2) is an undeveloped 38.8-acre parcel completely surrounded by Lot 3 that is predominantly forested

1.1 Scope of HASP

This HASP includes safety procedures to be used by Tenen staff during the following activities:

- Removal of aboveground storage tanks;
- Excavation and removal of impacted soil in the workshop area; and
- Excavation and removal of solid waste.

2.0 PROJECT SAFETY AUTHORITY

The following personnel are responsible for project health and safety under this HASP.

Tenen Environmental

Tenen Project Manager, Mohamed Ahmed

Tenen HSO, Matthew Carroll

Tenen HSO Alternate, Mark Accetturi

In addition, each individual working at the Site will be responsible for compliance with this HASP and general safe working practices. All Site workers will have the authority to stop work if a potentially hazardous situation or event is observed.

2.1 Designated Personnel

The Project Manager is responsible for the overall operation of the project, including compliance with the HASP and general safe work practices. The Project Manager may also act as the Health and Safety Officer (HSO) for this project.

Tenen will appoint one of its on-site personnel as the on-site HSO. This individual will be responsible for the implementation of the HASP. The HSO will have a 4-year college degree in occupational safety or a related science/engineering field, and at least two (2) years of experience in implementation of air monitoring and hazardous materials sampling programs. The HSO will have completed a 40-hour training course that meets OSHA requirements of 29 CFR Part 1910, Occupational Safety and Health Standards.

The HSO will be present on-site during all field operations involving drilling or other subsurface disturbance, and will be responsible for all health and safety activities and the delegation of duties to the field crew. The HSO has stop-work authorization, which he/she will execute on his/her determination of an imminent safety hazard, emergency situation, or other potentially dangerous situation. If the HSO must be absent from the field, a replacement who is familiar with the health and safety plan, air monitoring and personnel protective equipment (PPE) will be designated.

3.0 HAZARD ASSESSMENT AND CONTROL MEASURES

The Site was occupied, in part, since at least 1902. The Site was used for farming, including orchards, since at least 1940. By the mid 1950's, the northern portion of the property appeared to be used for bungalows. A mining operation was also present in the southern portion by the 1950's. Additional bungalows and structures were added between 1958 and 1984, by which time, the majority of the Site had transitioned from farmland to a golf course. The Site has also been used as a rod and gun club. The areas adjacent to the Site are vacant wooded land, farmland or developed with residential or commercial buildings.

Findings of historical usage of the site and Phase II sampling performed in May 2015 indicate the following:

- A total of nineteen 275-gallon ASTs, one 550-gallon AST and one 10,000-gallon AST are either discarded or abandoned at the Site.
- SVOCs, specifically PAHs, were detected in one soil sample at levels exceeding the Restricted Residential Use SCOs.
- Several metals typical of fill material, including copper, iron, and zinc, were detected above the Unrestricted or Residential Use SCOs.
- Solid waste including household refuse consisting of bottles, tires, plastic bags, old cloth, and roof shingles were observed in ten test pits; these materials extended to depths ranging between three and eleven feet below grade.

3.1 Human Exposure Pathways

The media of concern at the Site include potentially-impacted soil, discarded aboveground storage tanks, and unregulated solid waste. Potential exposure pathways include dermal contact, incidental ingestion and inhalation of vapors. The risk of dermal contact and incidental ingestion will be minimized through general safe work practices, a personal hygiene program and the use of PPE. The risk of inhalation will be minimized through the use of an air monitoring program for volatile organic compounds, particulates, and methane.

3.2 Chemical Hazards

Based on historic research and sampling data, the following contaminants of concern are anticipated:

Polyaromatic hydrocarbons (PAHs)

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Dibenzo(a,h)anthracene

- Indeno(1,2,3-cd)pyrene

Metals

- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Nickel
- Silver
- Zinc

Organic Compounds

- Methane

Material Safety Data Sheets (MSDSs) for each contaminant of concern are included in Appendix C. All personnel are required to review the MSDSs included in this HASP.

3.3 Physical Hazards

The physical hazards associated with the field activities likely present a greater risk of injury than the chemical constituents at the Site. Activities within the scope of this project shall comply with New York State and Federal OSHA construction safety standards.

Head Trauma

To minimize the potential for head injuries, field personnel will be required to wear National Institutes of Occupational Safety and Health (NIOSH)-approved hard hats during field activities. Hats must be worn properly and not altered in any way that would decrease the degree of protection provided.

Foot Trauma

To avoid foot injuries, field personnel will be required to wear steel-toed safety shoes while field activities are being performed. To afford maximum protection, all safety shoes must meet American National Standards Institute (ANSI) standards.

Eye Trauma

Field personnel will be required to wear eye protection (safety glasses with side shields) while

field activities are being performed to prevent eye injuries caused by contact with chemical or physical agents.

Noise Exposure

Field personnel will be required to wear hearing protection (ear plugs or muffs) in high noise areas (noise from heavy equipment) while field activities are being performed.

Buried Utilities and Overhead Power Lines

Prior to intrusive activities, the excavation subcontractor will contact the One Call Center to arrange for a utility mark-out, in accordance with New York State requirements. Protection from overhead power lines will be accomplished by maintaining safe distances of at least 15 feet at all times.

Thermal Stress

The effects of ambient temperature can cause physical discomfort, personal injury, and increase the probability of accidents. In addition, heat stress due to lack of body ventilation caused by protective clothing is an important consideration. Heat-related illnesses commonly consist of heat stroke and heat exhaustion.

The symptoms of heat stroke include: sudden onset; change in behavior; confusion; dry, hot and flushed skin; dilated pupils; fast pulse rate; body temperature reaching 105° or more; and/or, deep breathing later followed by shallow breathing.

The symptoms of heat exhaustion include: weak pulse; general weakness and fatigue; rapid shallow breathing; cold, pale and clammy skin; nausea or headache; profuse perspiration; unconsciousness; and/or, appearance of having fainted.

Heat-stress monitoring will be conducted if air temperatures exceed 70 degrees Fahrenheit. The initial work period will be set at 2 hours. Each worker will check his/her pulse at the wrist for 30 seconds early in each rest period. If the pulse rate exceeds 110 beats per minute, the next work period will be shortened by one-third.

One or more of the following precautions will reduce the risk of heat stress on the Site:

- Provide plenty of liquids to replace lost body fluids; water, electrolytic drinks, or both will be made available to minimize the risk of dehydration and heat stress
- Establish a work schedule that will provide appropriate rest periods
- Establish work regimens consistent with the American Conference of Governmental Industrial Hygienists (ACGIH) guidelines
- Provide adequate employee training on the causes of heat stress and preventive measures

In the highly unlikely event of extreme low temperatures, reasonable precautions will be made to avoid risks associated with low temperature exposure.

Traffic

Field activities will occur near public roadways. As a result, vehicular traffic will be a potential hazard during these activities and control of these areas will be established using barricades or traffic cones. Additional staff will be assigned, as warranted, for the sole purpose of coordinating traffic. Personnel will also be required to wear high-visibility traffic vests while working in the vicinity of the public roadways and local requirements for lane closure will be observed as needed. All work in public rights-of-way will be coordinated with local authorities and will adhere to their requirements for working in traffic zones.

Hazardous Weather Conditions

All Site workers will be made aware of hazardous weather conditions, specifically including extreme heat, and will be requested to take the precautions described herein to avoid adverse health risks. All workers are encouraged to take reasonable, common sense precautions to avoid potential injury associated with possible rain or high wind. Conditions of sleet, snow or freezing are extremely unlikely.

Slip, Trip and Fall

Areas at the Site may be slippery from mud or water. Great care should be taken by all Site workers to avoid slip, trip and fall hazards. Workers shall not enter areas that not have adequate lighting. Additional portable lighting will be provided at the discretion of the HSO.

Biological Hazards

Drugs and alcohol are prohibited from the Site. Any on-site personnel violating this requirement will be immediately expelled from the Site.

It is the responsibility of any worker or oversight personnel with a medical condition that may require attention should inform the HSO of such condition. The HSO will describe appropriate measures to be taken if the individual should become symptomatic.

Due to the Site location in a rural area, it is likely that poisonous snakes, ticks, spiders, plants, and insects will be encountered. However, other animals (dogs, cats, etc.) may be encountered, and care should be taken to avoid contact.

4.0 COMMUNITY AIR MONITORING PROGRAM

The NYSDOH Generic Community Air Monitoring Plan (CAMP), included as Appendix 1A of DER-10, and methane monitoring will be implemented during all ground-intrusive activities.

VOC Monitoring, Response Levels and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring should be performed using equipment appropriate for the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shut down.
4. All 15-minute readings must be recorded and be available for State (NYSDEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels and Actions

Particulate concentrations should be monitored continuously at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis and once at the upwind perimeter at start of each work day or as otherwise specified. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m³) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m³ above the upwind level and provided that no visible dust is migrating from the work area.
2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m³ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m³ of the upwind level and in preventing visible dust migration.
3. All readings must be recorded and be available for State (NYSDEC and NYSDOH) personnel to review.

Methane Monitoring, Response Levels and Actions

Methane must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring should be performed using a meter capable of calculating the percentge methane of the Lower Explosive Limit (LEL).

1. If methane is present at 10% of the LEL in ambient air, work activities must be temporarily halted and monitoring continued. If the methane level readily decreases (per instantaneous readings) below 5% of the LEL, work activities can resume with continued monitoring.
2. If methane levels persist in excess of 10% LEL, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions and monitoring continued. After these steps, work activities can resume provided that the methane levels decrease below 10% of LEL.
3. All readings must be recorded and be available for review.

5.0 PERSONAL PROTECTIVE EQUIPMENT

The personal protection equipment required for various kinds of site investigation tasks is based on 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, “General Description and Discussion of the Levels of Protection and Protective Gear.”

Tenen field personnel and other site personnel will wear Level D personal protective equipment. During activities such as soil excavation, tanks removal, and solid waste excavation and removal where there is a chance of contact with contaminated materials, modified Level D equipment will be worn. The protection will be upgraded to Level C if warranted by the results of the air monitoring. A description of the personnel protective equipment for Levels D and C is provided below.

Level D

Respiratory Protection: None

Protective Clothing: Hard hat, steel-toed shoes, long pants, nitrile gloves

Modified Level D

Respiratory Protection: None

Protective Clothing: Hard hat, steel-toed shoes, coveralls/tyvek, nitrile gloves

Level C

Respiratory Protection: Air purifying respirator with organic vapor cartridges and filters.

Protective Clothing: Same as modified Level D

6.0 EXPOSURE MONITORING

Selective monitoring of workers in the exclusion area may be conducted, as determined by the HSO, if sources of hazardous materials are identified. Personal monitoring may be conducted in the breathing zone at the discretion of the Project Manager or HSO and, if workers are wearing respiratory protective equipment, outside the face-piece.

7.0 SITE ACCESS

Access to the Site during the remedial activities will be controlled by the Project Manager or HSO. Unauthorized personnel will not be allowed access to the Site.

8.0 WORK AREAS

During any activities involving subsurface disturbance, the work area must be divided into various zones to prevent the spread of contamination, clarify the type of protective equipment needed, and provide an area for decontamination.

The Exclusion Zone is defined as the area where potentially contaminated materials are generated as the result of excavation activities. The Contamination Reduction Zone (CRZ) is the area where decontamination procedures take place and is located adjacent to the Exclusion Zone. The Support Zone is the area where support facilities such as vehicles, a field phone, fire extinguisher and/or first aid supplies are located. The emergency staging area (part of the Support Zone) is the area where all Site workers will assemble in the event of an emergency. These zones shall be designated daily, depending on that day's activities. All field personnel will be informed of the location of these zones before work begins.

Control measures such as "Caution" tape and traffic cones will be placed around the perimeter of the work area when work is being done in the areas of concern (i.e., areas with exposed soil) to prevent unnecessary access.

9.0 DECONTAMINATION PROCEDURES

Personnel Decontamination

Personnel decontamination (decon), if deemed necessary by the HSO, will take place in the designated decontamination area delineated for each work location. Personnel decontamination will consist of the following steps:

- Soap and potable water wash and potable water rinse of gloves;
- Tyvek removal;
- Glove removal;
- Disposable clothing removal; and
- Field wash of hands and face.

Equipment Decontamination

Excavation equipment, such as excavator buckets, will be decontaminated, if needed, in accordance with U.S. Environmental Protection Agency methodologies, as described in the work plan. Because site soil is considered essentially non-hazardous, there is no need to decontaminate vehicles used for transporting equipment and personnel over the Site.

Disposal of Materials

Water used to decontaminate any equipment will be containerized and disposed off-site in accordance with federal, state and local regulations.

10.0 GENERAL SAFE WORK PRACTICES

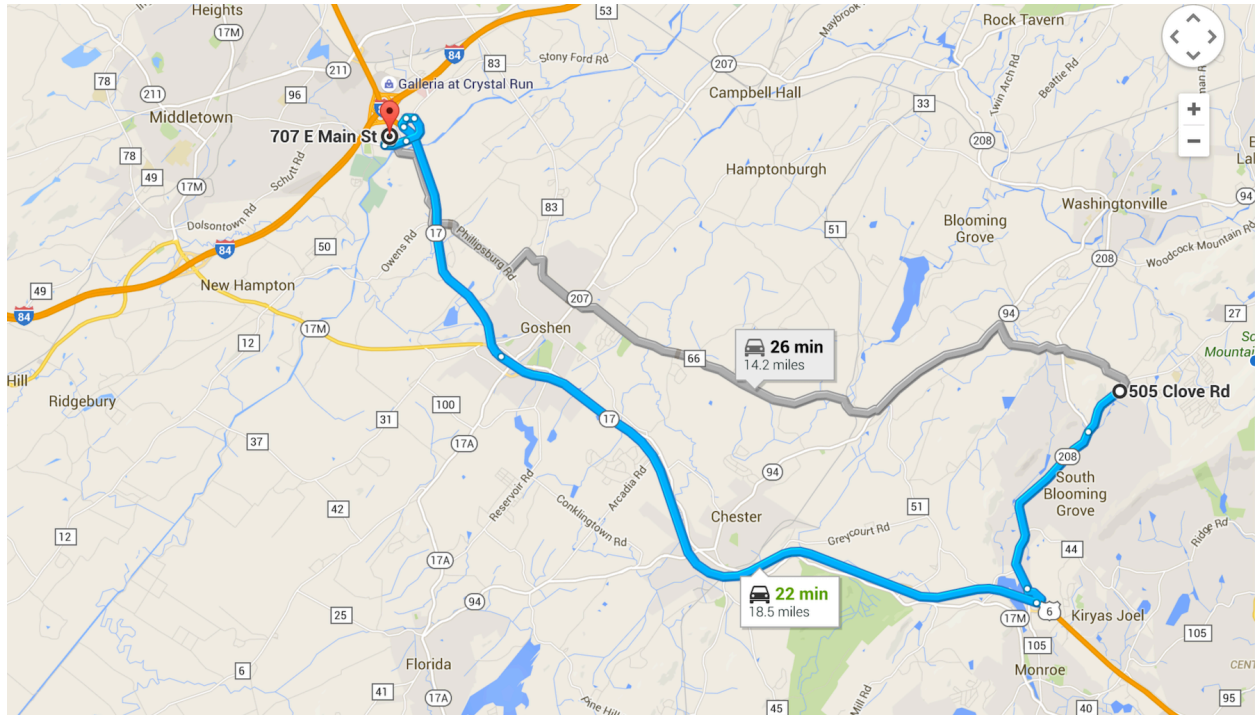
To protect the health and safety of the field personnel, all field personnel will adhere to the guidelines listed below during activities involving subsurface disturbance.

- Eating, drinking, chewing gum or tobacco, and smoking are prohibited, except in designated areas on the site. These areas will be designated by the HSO.
- Workers must wash their hands and face thoroughly on leaving the work area and before eating, drinking, or any other such activity. The workers should shower as soon as possible after leaving the site.
- Removal of potential contamination from PPE and equipment by blowing, shaking or any means that may disperse materials into the air is prohibited.
- Contact with contaminated or suspected surfaces should be avoided.
- The buddy system should always be used; each buddy should watch for signs of fatigue, exposure, and heat stress.
- Personnel will be cautioned to inform each other of symptoms of chemical exposure such as headache, dizziness, nausea, and irritation of the respiratory tract and heat stress.
- No excessive facial hair that interferes with a satisfactory fit of the face-piece of the respirator to the face will be allowed on personnel required to wear respiratory protective equipment.
- On-site personnel will be thoroughly briefed about the anticipated hazards, equipment requirements, safety practices, emergency procedures, and communications methods.

11.0 EMERGENCY PROCEDURES

The field crew will be equipped with emergency equipment, such as a first aid kit and disposable eye washes. In the case of a medical emergency, the HSO will determine the nature of the emergency and will have someone call for an ambulance, if needed. If the nature of the injury is not serious—i.e., the person can be moved without expert emergency medical personnel—on-site personnel should drive him to a hospital. **The nearest emergency room is at Orange Regional Medical Center (707 East Main Street, Middletown, NY 10940).** The route to the hospital is shown and detailed on the next page.

11.1 Route to Hospital



1. Head southwest on Clove Rd toward Lake Anne Dr
2. Slight left onto NY-208 S
3. Turn left to merge onto NY-17 W/US-6 W
4. Merge onto NY-17 W/US-6 W
5. Continue onto NY-17 W
6. Take exit 122 for Crystal Run Crossing
7. Turn right onto Crystal Run Rd
8. Continue onto E Main St
9. Turn right
10. Turn right
11. Turn left
12. Turn left
13. Turn left
14. Turn right
15. Emergency room entrance on the right (845) 333-1300.

11.2 Emergency Contacts

There will be an on-site field phone. Emergency and contact telephone numbers are listed below:

Table 1 – Emergency Contacts

Ambulance	911
Emergency Room	(845) 333-1300.
NYSDEC Spill Hotline	(800) 457-7362
Tenen Project Manager, Mohamed Ahmed	(917) 612-6018
Tenen HSO, Matthew Carroll	(646) 827-1061
Tenen HSO Alternate, Mark Accetturi	TBD
CPC LLC, Client, Simon Gelb	(845) 500-1111

12.0 TRAINING

All personnel performing the field activities described in this HASP will have received the initial safety training required by 29 CFR, 1910.120. Current refresher training status also will be required for all personnel engaged in field activities.

All those who enter the work area while intrusive activities are being performed must recognize and understand the potential hazards to health and safety. All field personnel must attend a training program covering the following areas:

- potential hazards that may be encountered;
- the knowledge and skills necessary for them to perform the work with minimal risk to health and safety;
- the purpose and limitations of safety equipment; and
- protocols to enable field personnel to safely avoid or escape from emergencies.

Each member of the field crew will be instructed in the above objectives before he/she goes onto the site. The HSO will be responsible for conducting the training program.

13.0 MEDICAL SURVEILLANCE

All Tenen and direct subcontractor personnel performing field work involving soil contact at the site are required to have passed a complete medical surveillance examination in accordance with 29 CFR 1910.120 (f). The medical examination for Tenen employees will, at a minimum, be provided annually and upon termination of hazardous waste site work.

Appendix A

Acknowledgement of HASP

ACKNOWLEDGMENT OF HASP

Below is an affidavit that must be signed by all Tenen Environmental employees who enter the site. A copy of the HASP must be on-site at all times and will be kept by the HSO.

AFFIDAVIT

I, _____ (name), of
(company name), have read the Health and Safety Plan (HASP) for the Clovewood site. I agree to conduct all on-site work in accordance with the requirements set forth in this HASP and understand that failure to comply with this HASP could lead to my removal from the site.

Signature: _____
Signature: _____
Signature: _____
Signature: _____
Signature: _____

Date: _____
Date: _____
Date: _____
Date: _____
Date: _____

Appendix B

Injury Reporting Form (OSHA Form 300)

How to Fill Out the Log

The *Log of Work-Related Injuries and Illnesses* is used to classify work-related injuries and illnesses and to note the extent and severity of each case. When an incident occurs, use the *Log* to record specific details about what happened and how it happened.

If your company has more than one establishment or site, you must keep separate records for each physical location that is expected to remain in operation for one year or longer.

We have given you several copies of the *Log* in this package. If you need more than we provided, you may photocopy and use as many as you need.

The *Summary* — a separate form — shows the work-related injury and illness totals for the year in each category. At the end of the year, count the number of incidents in each category and transfer the totals from the *Log* to the *Summary*. Then post the *Summary* in a visible location so that your employees are aware of injuries and illnesses occurring in their workplace.

You don't post the Log. You post only the Summary at the end of the year.

OSHA's Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20____

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

Establishment name XYZ Company

City Anywhere State MA

Identify the person			Describe the case			Classify the case CHECK ONLY ONE box for each case based on the most serious outcome for that case:				Enter the number of days the injured or ill worker was:		Check the "Injury" column or choose one type of illness:						
(A) Case no.	(B) Employee's name	(C) Job title (e.g. Welder)	(D) Date of injury or onset of illness	(E) Where the event occurred (e.g. Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g. Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other recordable cases (J)	Away from work (K) days	On job transfer or restriction (L) days	(M) Injury (1)	Skin disorders (2)	Respiratory conditions (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)	
1	Mark Bagin	Welder	5 / 25 month/day	basement	fracture, left arm and left leg, fell from ladder	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Shana Alexander	Foundry man	7 / 2 month/day	pouring deck	poisoning from lead fumes	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	____	30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Sam Sander	Electrician	8 / 5 month/day	2nd floor storeroom	broken left foot, fell over box	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ralph Boccella	Laborer	9 / 17 month/day	packaging dept	Back strain lifting boxes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Jarrold Daniels	Machine opr.	10 / 23 month/day	production floor	dust in eye	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	____	____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
____	____	____	____ / ____ month/day	____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
____	____	____	____ / ____ month/day	____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
____	____	____	____ / ____ month/day	____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Be as specific as possible. You can use two lines if you need more room.

Revise the log if the injury or illness progresses and the outcome is more serious than you originally recorded for the case. Cross out, erase, or white-out the original entry.

Choose ONLY ONE of these categories. Classify the case by recording the most serious outcome of the case, with column G (Death) being the most serious and column J (Other recordable cases) being the least serious.

Note whether the case involves an injury or an illness.

OSHA’s Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Form approved OMB no. 1218-0176

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name _____

City _____ State _____

Identify the person			Describe the case			Classify the case												
(A) Case no.	(B) Employee’s name	(C) Job title <i>(e.g., Welder)</i>	(D) Date of injury or onset of illness	(E) Where the event occurred <i>(e.g., Loading dock north end)</i>	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill <i>(e.g., Second degree burns on right forearm from acetylene torch)</i>	CHECK ONLY ONE box for each case based on the most serious outcome for that case:				Enter the number of days the injured or ill worker was:	Check the “Injury” column or choose one type of illness:							
						Remained at Work				Away from work	On job transfer or restriction	(M)						
						Death	Days away from work	Job transfer or restriction	Other record-able cases	(K)	(L)	Injury	Skin disorder	Respiratory condition	Poisoning	Hearing loss	All other illnesses	
						(G)	(H)	(I)	(J)			(1)	(2)	(3)	(4)	(5)	(6)	
_____	_____	_____	____/____/____ month/day	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ days	____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
_____	_____	_____	____/____/____ month/day	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ days	____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Page ____ of ____

Injury

Skin disorder

Respiratory condition

Poisoning

Hearing loss

All other illnesses

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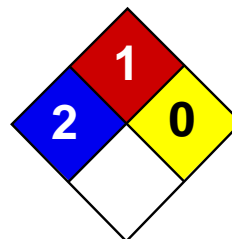
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Appendix C

Material Safety Data Sheets (MSDS)



Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Copper MSDS

Section 1: Chemical Product and Company Identification

Product Name: Copper

Catalog Codes: SLC4939, SLC2152, SLC3943, SLC1150, SLC2941, SLC4729, SLC1936, SLC3727, SLC5515

CAS#: 7440-50-8

RTECS: GL5325000

TSCA: TSCA 8(b) inventory: Copper

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: Cu

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Copper	7440-50-8	100

Toxicological Data on Ingredients: Copper LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 1 (mg/m3) from ACGIH [1990] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 63.54 g/mole

Color: Not available.

pH (1% soln/water): Not applicable.

Boiling Point: 2595°C (4703°F)

Melting Point: 1083°C (1981.4°F)

Critical Temperature: Not available.

Specific Gravity: 8.94 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Human: passes through the placenta, excreted in maternal milk.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:

Pennsylvania RTK: Copper Massachusetts RTK: Copper TSCA 8(b) inventory: Copper CERCLA: Hazardous substances.: Copper

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R36- Irritating to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 04:58 PM

Last Updated: 05/21/2013 12:00 PM

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ZINC METAL MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Zinc Metal

NOTE: In the form in which it is sold this product is not regulated. This Material Safety Data Sheet is provided for information purposes only.

Manufacturer:

Teck Metals Ltd.
Trail Operations
Trail, British Columbia
V1R 4L8

Emergency Telephone: 250-364-4214

Supplier:

Teck Metals Ltd.
1500-120 Adelaide Street, W.
Toronto, Ontario
M5H 1T1

MSDS Preparer:

Teck Metals Ltd.
3300 – 550 Burrard Street
Vancouver, British Columbia
V6C 0B3

Date of Last Revision/Edit: June 1, 2009.

Product Use: Zinc metal is used to coat steel for corrosion protection (galvanizing, electroplating, electrogalvanizing), as an alloying element in bronze, brass, aluminum and other metal alloys, for zinc die casting alloys, for zinc dry cell and zinc/air batteries, for the production of zinc sheet for architectural and coinage applications, as a reducing agent in organic chemistry and for other chemical applications.

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Approximate Percent by Weight	CAS Number	Occupational Exposure Limits (OELs)		LD ₅₀ / LC ₅₀ Species and Route
Zinc	99+%	7440-66-6	OSHA PEL ACGIH TLV NIOSH REL	None established None established None established	No Data

NOTE: OELs for individual jurisdictions may differ from OSHA PELs. Check with local authorities for the applicable OELs in your jurisdiction. OSHA - Occupational Safety and Health Administration. ACGIH - American Conference of Governmental Industrial Hygienists. NIOSH - National Institute for Occupational Safety and Health. OEL – Occupational Exposure Limit. PEL – Permissible Exposure Limit. TLV – Threshold Limit Value. REL – Recommended Exposure Limit.

NOTE: While there is no established OEL for zinc as such, there are OELs for zinc oxide which may be formed during burning, welding or other fuming processes.

The OSHA PEL final rule limits for zinc oxide dust are 10 mg/m³ (total) and 5 mg/m³ (respirable); the OSHA PEL final rule limit for zinc oxide fume is 5 mg/m³. Note that the OSHA PEL final rule limits are currently non-enforceable due to a court decision. The OSHA PEL transitional limits therefore remain in force at present. They are 15 mg/m³ (total) and 5 mg/m³ (respirable) while the transitional PEL for zinc oxide fume is 5 mg/m³. The ACGIH TLV for zinc oxide is 2 mg/m³ (respirable fraction) with a Short Term Exposure Limit (STEL) of 10 mg/m³ (respirable fraction). The NIOSH REL for zinc oxide (dust or fume) is 5 mg/m³ 10 hr TWA with a 15 mg/m³ ceiling limit (15 minute sample) for zinc oxide dust and a 10 mg/m³ STEL for zinc oxide fume (15 minute sample).

Trade Names and Synonyms: High Grade Zinc; Special High Grade Zinc; TADANAC® Zinc; C-CAST® Zinc; Zn

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview: A lustrous bluish-silver metal that does not burn but may form explosive mixtures if dispersed in air as a fine powder. Contact with acids or alkalis generates flammable hydrogen gas which can accumulate in poorly-ventilated areas. Do NOT use water or foam in fire fighting. Apply dry chemical, sand or special powder extinguishing media. Zinc is relatively non-toxic and poses little immediate health hazard to personnel or the environment in an emergency situation.

Potential Health Effects: Pure zinc dust is relatively non-toxic to humans by inhalation. However, acute over-exposure to zinc oxide fume may cause metal fume fever, characterized by flu-like symptoms such as chills, fever, nausea, and vomiting. Ingestion of soluble salts may cause abdominal irritation resulting in nausea and vomiting. In most cases, dermal exposure to zinc or zinc compounds does not result in any noticeable toxic effects. Zinc is not listed as a carcinogen by OSHA, NTP, IARC, ACGIH or the EU. (see Toxicological Information, Section 11)

Potential Environmental Effects: In the form in which the product is sold, zinc metal does not represent a significant threat to the environment. However, extended exposure in the aquatic or terrestrial environments may lead to the release of zinc in a bioavailable form. (see Ecological Information, Section 12)

EU Risk Phrase(s): Not applicable - zinc is not listed as a dangerous substance.

SECTION 4. FIRST AID MEASURES

Eye Contact: Do not allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding eyelid(s) open. If irritation persists, obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye.

Skin Contact: No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice. *Molten Metal:* Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical advice. NOTE: Metal fume fever may develop 3-10 hours after exposure. If symptoms of metal fume fever (flu-like symptoms) develop, obtain medical attention.

Ingestion: If swallowed, no specific intervention is indicated as this material is not likely to be hazardous by ingestion. However, if irritation or discomfort occurs, obtain medical advice.

SECTION 5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Massive metal is not considered a fire or explosion hazard. However, finely divided metallic dust or powder may form flammable or explosive dust clouds when dispersed in the air at high concentrations and exposed to heat, flame, or other ignition sources. Bulk dust in a damp state may heat spontaneously and ignite on exposure to air. Contact with acids and alkali hydroxides results in evolution of hydrogen gas which is potentially explosive. Mixtures with potassium chlorate or ammonium nitrate may explode on impact.

Extinguishing Media: Apply dry chemical, dry sand, or special powder extinguishing media. Do NOT use water, carbon dioxide or foam on molten metals. Water may be ineffective for extinguishing a fire but should be used to keep fire-exposed containers cool.

Fire Fighting: If possible, move material from fire area and cool material exposed to flame. Apply dry chemical, sand, or special powder extinguishing media. Zinc oxide fumes may evolve in fires. Fire fighters should be fully trained and wear full protective clothing including an approved, self-contained breathing apparatus which supplies a positive air pressure within a full face-piece mask.

Flashpoint and Method: Not Applicable.

Upper and Lower Flammable Limit: Lower Flammable Limit (Zinc Dust): 500 g/m³; Upper Flammable Limit: Not Applicable.

Autoignition Temperature: Approximately 680°C (dust cloud in air), 460°C (dust layer).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Procedures for Cleanup: Solid metal is recyclable. Vacuuming recommended for accumulated metal dust. Molten metal should be allowed to solidify prior to clean-up. Return uncontaminated spilled material to the process if possible. Place contaminated and non-recyclable material in suitable labeled containers for later disposal. Treat or dispose of waste material in accordance with all local, regional and national requirements, as applicable.

Personal Precautions: Protective clothing, gloves, and a respirator are recommended for persons responding to an accidental release (see also Section 8). Close-fitting safety goggles may be necessary in some circumstances to prevent eye contact with zinc dust or powder. Where molten metal is involved, wear heat-resistant gloves and suitable clothing for protection from hot-metal splash.

Environmental Precautions: Zinc in the metallic form has limited bioavailability and poses no immediate ecological risk. However, contamination of water and soil should be prevented.

SECTION 7. HANDLING AND STORAGE

Store zinc in a DRY covered area, separate from incompatible materials. Zinc ingots suspected of containing moisture should be THOROUGHLY DRIED before being added to a molten bath. Ingots may contain cavities that collect moisture. Entrained moisture will expand explosively when immersed in a molten bath. Always practice good personal hygiene. Refrain from eating, drinking, or smoking in work areas. Thoroughly wash hands before eating, drinking, or smoking in appropriate designated areas. No special packaging materials are required.

EU Safety Phrase(s): Not applicable - zinc in ingot form is not listed as a dangerous substance.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Clothing: Gloves and coveralls or other work clothing are recommended to prevent prolonged or repeated direct skin contact when zinc is processed. Eye protection should be worn where fume or dust is generated. Respiratory protection may be required where zinc oxide fume is generated. Where hot or molten metal is handled, heat resistant gloves, face shield, and clothing to protect from hot metal splash should be worn. Safety type boots are recommended.

Ventilation: Use adequate local or general ventilation to maintain the concentration of zinc oxide fumes in the working environment well below recommended occupational exposure limits. Supply sufficient replacement air to make up for air removed by the exhaust system. Where metallic dust particles of zinc metal are being collected and transported by a ventilation system, use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Locate dust collectors and fans outdoors if possible and provide dust collectors with explosion vents or blow out panels.

Respirators: Where zinc oxide dust or fumes are generated and cannot be controlled to within acceptable levels, use appropriate NIOSH-approved respiratory protection equipment (a 42CFR84 Class N, R or P-95 particulate filter cartridge).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Bluish-silver lustrous metal

Odour:
None

Physical State:
Solid

pH:
Not Applicable

Vapour Pressure:
1 mm at 487°C
Negligible at 20°C

Vapour Density:
Not Applicable

Boiling Point/Range:
908° C

**Freezing/Melting
Point/Range:**
420° C

Specific Gravity:
7.1

Evaporation Rate:
Not Applicable

**Coefficient of Water/Oil
Distribution:**
Not Applicable

Odour Threshold:
None

Solubility:
Insoluble in Water

SECTION 10. STABILITY AND REACTIVITY

Stability & Reactivity: Massive metal is stable under normal temperatures and pressures. It slowly becomes covered with a white coating of a hydrated basic zinc carbonate on exposure to moist air. Fine, condensed zinc dust or powder may heat spontaneously and ignite on exposure to air when damp. Zinc metal will react with acids and strong alkalis to generate hydrogen gas. A violent, explosive reaction may occur when powdered zinc is heated with sulphur. Powdered zinc will become incandescent or ignite in the presence of fluorine, chlorine or bromine. Powdered zinc can also react explosively with halogenated hydrocarbons if heated. Mixtures with potassium chlorate or ammonium nitrate may explode on impact.

Incompatibilities: Contact with acids and alkalis will generate highly flammable hydrogen gas. Contact with acidic solutions of arsenic and antimony compounds may evolve highly toxic ARSINE or STIBINE gas. Incompatible with strong oxidizing agents such as chlorine, fluorine, bromine, sodium potassium or barium peroxide, sodium or potassium chlorate, chromium trioxide and fused ammonium nitrate. Also incompatible with elemental sulphur dust, halogenated hydrocarbons or chlorinated solvents and chlorinated rubber.

Hazardous Decomposition Products: High temperature operations such as oxy-acetylene cutting, electric arc welding or overheating a molten bath will generate zinc oxide fume which, on inhalation in sufficient quantity, can produce metal fume fever, a transient influenza-like illness.

SECTION 11. TOXICOLOGICAL INFORMATION

General: Zinc, especially in the metal form, is relatively non-toxic. However, it can react with other materials, such as oxygen or acids, to form compounds that can be potentially toxic. The primary route of exposure would be through the generation and inhalation of zinc oxide fume from welding or burning or overheated melting pots.

Acute:

Skin/Eye: In most cases, dermal exposure to zinc or zinc compounds does not result in any noticeable toxic effects. Zinc metal is not chemically irritating to the eyes.

Inhalation: If excessive quantities of zinc oxide fume are inhaled, it can result in the condition called metal fume fever. The symptoms of metal fume fever will occur within 3 to 10 hours, and include immediate dryness and irritation of the throat, tightness of the chest and coughing, which may later be followed by flu-like symptoms of fever, malaise, perspiration, frontal headache, muscle cramps, low back pain, occasionally blurred vision, nausea, and vomiting. The symptoms are temporary and generally disappear, without medical intervention, within 24 to 48 hours of onset. There are no recognized complications, after effects, or chronic effects that result from this condition.

Ingestion: When ingested in excessive quantities, zinc can irritate the stomach resulting in nausea and vomiting.

Chronic: There is no chronic form of metal fume fever but in rare instances an acute incident may be followed by complaints such as bronchitis or pneumonia. Some workers may develop a short-term immunity (resistance) so that repeated exposure to zinc oxide fumes does not cause metal fume fever. This immunity (resistance) however is quickly lost after short absences from work (weekends or vacations). Workers exposed to finely-divided metallic zinc for up to 35 years revealed no acute or chronic illnesses attributable to zinc. Prolonged or repeated skin contact with zinc dust or powder may cause dryness, irritation and cracking (dermatitis) since zinc is astringent and may tend to draw moisture from the skin. Zinc dust is not listed as a human carcinogen by the Occupational Safety and Health Administration (OSHA), the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the American Conference of Governmental Industrial Hygienists (ACGIH) or the European Union (EU).

SECTION 12. ECOLOGICAL INFORMATION

Zinc in the metallic form has limited bioavailability and poses no immediate ecological risk. However, its processing or extended exposure in the environment may result in the formation of bioavailable zinc compounds. In aquatic systems, zinc bioaccumulates in both plants and animals. In terrestrial systems, the mobility of zinc in soil is dependent on soil conditions, such as cation exchange capacity, pH, redox potential, and chemical species present in the soil. Zinc also bioaccumulates in terrestrial plants, vertebrates, and mammals, with plant uptake from soil dependent on the plant species, soil pH, and soil composition.

SECTION 13. DISPOSAL CONSIDERATIONS

If material cannot be returned to process or salvage, dispose of in accordance with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME Not applicable – not regulated.
U.S. DOT AND TRANSPORT CANADA HAZARD CLASSIFICATION Not applicable
U.S. DOT AND TRANSPORT CANADA PID..... Not applicable
MARINE POLLUTANT No
IMO CLASSIFICATION Not regulated

SECTION 15. REGULATORY INFORMATION

U.S.

INGREDIENT LISTED ON TSCA INVENTORY Yes

HAZARDOUS UNDER HAZARD COMMUNICATION STANDARD No

CERCLA SECTION 103 HAZARDOUS SUBSTANCES Zinc Yes.....RQ: 1,000 lb. (454 kg.)*

* reporting not required when diameter of the pieces of solid metal released is equal to or exceeds 100 micrometers (0.004 inches).

EPCRA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE No

EPCRA SECTION 311/312 HAZARD CATEGORIES No Hazard Categories Apply

EPCRA SECTION 313 Toxic Release Inventory: This product does not contain any toxic chemicals subject to the Toxic Release reporting requirements. However, potential by-products from working with this product - "Zinc (Fume or Dust)" CAS 7440-66-6 are reportable.

CANADIAN:

INGREDIENTS LISTED ON DOMESTIC SUBSTANCES LIST..... Yes

WHMIS CLASSIFICATION:..... Not applicable. Zinc is not a Controlled Product under CPR.

EUROPEAN UNION:

LISTED ON THE EUROPEAN INVENTORY OF EXISTING

COMMERCIAL CHEMICAL SUBSTANCES (EINECS)..... Yes

EU CLASSIFICATION: Not applicable. Zinc in ingot form is not listed as a dangerous substance.

SECTION 16. OTHER INFORMATION

The information in this Material Safety Data Sheet is based on the following references:

- American Conference of Governmental Industrial Hygienists, 2004, Documentation of the Threshold Limit Values and Biological Exposure Indices, Seventh Edition.
- American Conference of Governmental Industrial Hygienists, 2006, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.
- American Conference of Governmental Industrial Hygienists, 2005, Guide to Occupational Exposure Values.
- Bretherick's Handbook of Reactive Chemical Hazards, 20th Anniversary Edition. (P. G. Urban, Ed), 1995.
- Canadian Centre for Occupational Health and Safety (CCOHS) Hamilton, Ontario, CHEMINFO Record No. 239 – Zinc (Last Revision 2006-01).
- European Economic Community, Commission Directives 91/155/EEC and 67/548/EEC.
- Industry Canada, SOR/88-66, Controlled Products Regulations, as amended.
- Merck & Co., Inc., 2001, The Merck Index, An Encyclopedia of Chemicals, Drugs, and Biologicals, Thirteenth Edition.
- National Library of Medicine, National Toxicology Information Program, 2003, Hazardous Substance Data Bank. (on-line version).
- Oak Ridge National Laboratory, Oak Ridge, Tennessee – Toxicity Summary for Zinc and Zinc Compounds, April 1992.
- Patty's Toxicology, Fifth Edition, 2001 E. Bingham, B. Cohnsen & CH Powell (Eds.).
- U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health, NIOSH Pocket Guide to Chemical Hazards. CD-ROM Edition (September 2005).
- U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, August 2005, Toxicological Profile for Zinc.
- U.S. Occupational Safety and Health Administration, 1989, Code of Federal Regulations, Title 29, Part 1910.

Notice to Reader

Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. Teck Metals Ltd. extends no warranty and assumes no responsibility for the accuracy of the content and expressly disclaims all liability for reliance thereon. This material safety data sheet provides guidelines for the safe handling and processing of this product; it does not and cannot advise on all possible situations; therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

MATERIAL SAFETY DATA SHEET**Polyaromatic Hydrocarbons**

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
IDENTITY Decanter Tank Tar Sludge Polyaromatic Hydrocarbons (TDG name - Toxic Solid, organic NOS (Waste) (Pyrene)	DATE PREPARED February 7, 2007
SYNONYMS, CHEMICAL NAMES, COMMON NAMES Aromatics, PAH, Yellow Sludge	USE: Waste Sludge
MANUFACTURER'S NAME Cancarb Ltd.	EMERGENCY TELEPHONE NUMBER (Health) (403) 502-6614
ADDRESS P.O. Box 1000, Station M Calgary, Alberta Canada, T2P 4K5	TELEPHONE NUMBER – TECHNICAL INFORMATION (403)-527-1121

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS			
HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	%/wt
Variable blend of Polynuclear Aromatic Hydrocarbons (PAHs) plus inert solids in water. Concentrations will vary depending upon the extent of product dryness. Hazardous ingredients may include:			
Pyrene (CAS# 129-00-0)	0.2 mg m ³	None established	<7%
Benzo (g,h,i) Fluoroanthrene (CAS# 203-12-3)	None established	None established	<6%
Fluoroanthene (CAS# 206-44-0)	None established	None established	<4%
Phenanthrene (CAS# 85-01-8)	0.2 mg/m ³	None established	<2%
Cyclopenta(d,e,f)Phenanthrene (CAS#203-64-5)	None established	None established	<2%
Anthracene (CAS# 120-12-7)	0.2 mg/m ³	None established	<1%
Benzo(a)Pyrene (CAS# 50-32-8)		None established	<0.1%
Benzo(a)Anthracene (CAS# 56-55-3)	0.2 mg/m ³	None established	<0.1%
Benzo(b)Fluoroanthene CAS # 205-99-2)	None established	None established	<0.1%
Benzo(j)Fluoroanthene (CAS# 205-82-3)	None established	None established	<0.1%
Benzo(k)Fluoroanthene (CAS# 207-08-9)	None established	None established	<0.1%
Indeno(1,2,3)Pyrene (CAS# 193-39-5)	None established	None established	<0.1%
*Coal Tar Pitch Volatile. Remaining components are not hazardous.			

EMERGENCY OVERVIEW
Black, brown or yellow aqueous sludge May cause skin and eye irritation Suspected carcinogenic components.

SECTION 3 -HAZARDS IDENTIFICATION

PRIMARY ROUTE(s) OF EXPOSURE: Skin; Eyes. Inhalation if Sludge is Dry

IRRITATION DATA: May cause irritation to skin and eyes and burns to skin with sunlight..

INHALATION:

ACUTE : Not a likely route of exposure in sludge state. Mist may cause respiratory irritation.

CHRONIC : Repeated and prolonged exposure may cause toxicity to the liver and blood.
Suspected carcinogenicity .

SKIN CONTACT:

- ACUTE: Prolonged and repeated contact may cause irritation. Contact in the presence of sunlight may enhance irritant effects leading to skin burns..
- CHRONIC: Systemic toxicity. Suspected carcinogenicity.

EYE CONTACT:

- ACUTE: May be irritating, resulting in tearing, reddening, and swelling.
- CHRONIC: None known.

INGESTION:

- ACUTE: May cause gastric irritation and disturbance.
- CHRONIC: Chronic effects of phenanthrene ingestion include liver effects; chronic effects of pyrene ingestion include muscle contraction or spasticity and blood changes; effects of chronic fluoranthene ingestion include kidney, urethra, and bladder effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Persons with pre-existing skin disorders may be at increased risk from exposure.

SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES

- INHALATION: Remove from exposure to fresh air immediately. If breathing has stopped, give artificial respiration. Oxygen may be given if breathing is difficult. Get medical attention.
- SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap and water until no evidence of the chemical remains. Get medical attention if irritation develops.
- EYE CONTACT: Flush thoroughly with water for at least 15 minutes, occasionally lifting the upper and lower lids, until no evidence of the chemical remains. Get medical attention if irritation develops.
- INGESTION: Do not induce vomiting. Treat symptomatically and supportively. Get medical attention if irritation develops.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: None	FLAMMABLE LIMITS:	LEL: Not applicable	UEL: Not applicable
--------------------------	--------------------------	----------------------------	----------------------------

AUTOIGNITION TEMPERATURE: Will not ignite as aqueous solution. If dried, will support combustion.
--

EXTINGUISHING MEDIA

Water spray, foam, or dry chemical powder. Carbon dioxide may be ineffective on large fires.
--

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters should wear full protective NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None Known.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
--

Stop discharge and control spill to avoid discharge to the environment. Use wet vacuum to limit spreading and place in suitable container for further handling and disposal. For dry material avoid generation of dust, use limited wetting to prevent spreading and use wet vacuum. Place in metal drum for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: KEEP WET. Do not allow to dry. Place wet vacuum discharge in metal drum. Empty drum into settling pond tanks. Avoid prolonged or repeated skin contact. Observe good personal and industrial hygiene practices.

Storage: Do not freeze.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION

Where airborne concentrations may exceed guidelines for permissible air concentrations, choose a respirator in accordance with OSHA Respirator Standard 29 CFR 1910.134. (i.e. organic vapor and P100 cartridges, powered air hoods.

VENTILATION

Use general dilution or local exhaust ventilation to maintain exposure below the exposure limits.

PROTECTIVE GLOVES

Choose appropriate gloves in accordance with OSHA Personal Protective Equipment Standard 29 CFR 1910.132.

EYE PROTECTION:

Safety glasses with side shields or choose in accordance with OSHA 29 CFR 1910.133.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Appropriate protective clothing to minimize repeated and prolonged skin contact. (i.e. Sarnex or Coated Sarnex).

RECOMMENDED EXPOSURE LIMITS

OH&S, OSHA and ACGIH have not set exposure limits for this waste mixture.
See Section 2 for exposure guidelines for the components of this waste.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	100° C	SPECIFIC GRAVITY	> 1
pH	Not available	FREEZING POINT	0° C
VAPOR PRESSURE (mm Hg)	Same as Water	SOFTENING POINT	Not applicable
VAPOR DENSITY (Air = 1)	Not available	EVAPORATION RATE	Not applicable
SOLUBILITY IN WATER	PAHs low solubility		
SOLUBILITY	Dry material soluble in hydrocarbon solvents		
COEFFICIENT OF WATER/OIL DISTRIBUTION:		Not available .	
APPEARANCE AND ODOR:		Black, Brown or Yellow Sludge.	

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	Unstable		Conditions to Avoid
	Stable	X	None Known. Stable under normal temperature and pressure.
INCOMPATIBILITY (Materials to Avoid)			
Strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Thermal decomposition may release toxic and/or hazardous gases from dried sludge.			
HAZARDOUS POLYMERIZATION	May Occur		Conditions to Avoid
	Will Not Occur	X	None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

This waste sludge has not been tested for acute or chronic toxicity. The following data is for its components >1%:

Pyrene	Oral LD ₅₀ (mouse): 800 mg/kg Inhalation LC ₅₀ (rat): 170 mg/m ³
Fluoranthene	Oral LD ₅₀ (rat): 2 gm/kg Dermal LD ₅₀ (rabbit): 3180 mg/kg
Phenanthrene	Oral LD ₅₀ (mouse): 700 mg/kg

TARGET ORGANS: Skin and eyes

CARCINOGENICITY: Some low level PAH components have been identified as suspected carcinogens by IARC and ACGIH. These include benzo(a)anthracene, benzo(a)pyrene, benz(b,j&k)fluoranthene, and indeno(1,2,3-cd) pyrene.

TUMORIGENIC DATA (RTECS): Phenanthrene, Clclopenta (def) phenanthrene, Benzo fluoranthrene, Pyrene, and fluoranthene.

MUTAGEN DATA (RTECS): Phenanthrene, Cyclopenta (def) phenanthrene, Pyrene, Benzo fluoroanthrene, Fluoranthene, Benzo (ghi) fluoranthene.

OTHER EFFECTS:

PAHs contained in the sludge have the property of photoallergenicity. In the presence of sunlight, these materials have the capacity to irritate the skin to a much greater degree, possibility leading to skin burns, than exposure without sunlight.

SECTION 12 - ECOLOGICAL INFORMATION

Sludge has not been tested for ecotoxicity.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable federal, provincial, and local environmental regulations. Residual solids may be present in any containers used to handle this sludge. Do not reuse for food, clothing or products for human or animal consumption.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME	TDG CLASSIFICATION	TDG UN/NA
Waste Type 97	6.1 PG II	UN 9397
Decantar Tank Tar Sludge		

SECTION 15 - REGULATORY INFORMATION

OSHA: This material is classified as hazardous under OSHA regulations.

WHMS: This material is considered a D2A, D2B Controlled Product.

This material has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

IDL: The following components are on the Canadian Ingredient Disclosure List:

Pyrene
Fluoranthene
Benzanthracene
Phenanthrene
Indeno (1,2,3-cd) pyrene
Benzopyrene
Naphthalene
Anthracene

SARA Title III - Toxic chemicals list 40 CFR 372.65:

Pyrene
Naphthalene
Anthracene

CERCLA Toxic Chemicals List 40 CFR 302:

Pyrene	RQ: 5000 pounds
Fluoranthene	RQ: 100 pounds
Benzanthracene	RQ: 10 pounds
Phenanthrene	RQ: 5000 pounds
Indeno (1,2,3-cd) pyrene	RQ: 100 pounds
Benzopyrene	RQ: 1 pound
Naphthalene	RQ: 100 pounds
Anthracene	RQ: 5000 pounds

RCRA Hazardous Waste Codes 40 CFR 261.24, 261.33 :

Fluoranthene	U120
Benzanthracene	U108
Indeno(1,2,3-cd)pyrene	U137
Benzopyrene	U022
Naphthalene	U165

SECTION 16 - OTHER INFORMATION

HMIS Ratings:

Health 2*
Flammability 1
Reactivity 0

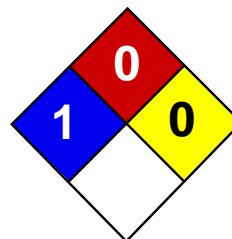
where 0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

This MSDS was prepared by: CANCARB Health, Safety & Environment Department
Telephone Number (403) 527-1121

R: 45; 36/37/38

S: 36/37/39

The information and recommendations set forth herein are made in good faith and are believed to be accurate as of the date of preparation. CANCARB makes no warranty, either express or implied, with respect to this information and disclaims all liability from reliance thereon.



Health	1
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Lead MSDS

Section 1: Chemical Product and Company Identification

Product Name: Lead

Catalog Codes: SLL1291, SLL1669, SLL1081, SLL1459, SLL1834

CAS#: 7439-92-1

RTECS: OF7525000

TSCA: TSCA 8(b) inventory: Lead

CI#: Not available.

Synonym: Lead Metal, granular; Lead Metal, foil; Lead Metal, sheet; Lead Metal, shot

Chemical Name: Lead

Chemical Formula: Pb

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Lead	7439-92-1	100

Toxicological Data on Ingredients: Lead LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Non-flammable in presence of open flames and sparks, of shocks, of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: When heated to decomposition it emits highly toxic fumes of lead.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable

protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 0.05 (mg/m³) from ACGIH (TLV) [United States] TWA: 0.05 (mg/m³) from OSHA (PEL) [United States] TWA: 0.03 (mg/m³) from NIOSH [United States] TWA: 0.05 (mg/m³) [Canada] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Metal solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 207.21 g/mole

Color: Bluish-white. Silvery. Gray

pH (1% soln/water): Not applicable.

Boiling Point: 1740°C (3164°F)

Melting Point: 327.43°C (621.4°F)

Critical Temperature: Not available.

Specific Gravity: 11.3 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, excess heat

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Can react vigorously with oxidizing materials. Incompatible with sodium carbide, chlorine trifluoride, trioxane + hydrogen peroxide, ammonium nitrate, sodium azide, disodium acetylide, sodium acetylide, hot concentrated nitric acid, hot concentrated hydrochloric acid, hot concentrated sulfuric acid, zirconium.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. May cause damage to the following organs: blood, kidneys, central nervous system (CNS).

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential: Skin: Lead metal granules or dust: May cause skin irritation by mechanical action. Lead metal foil, shot or sheets: Not likely to cause skin irritation Eyes: Lead metal granules or dust: Can irritate eyes by mechanical action. Lead metal foil, shot or sheets: No hazard. Will not cause eye irritation. Inhalation: In an industrial setting, exposure to lead mainly occurs from inhalation of dust or fumes. Lead dust or fumes: Can irritate the upper respiratory tract (nose, throat) as well as the bronchi and lungs by mechanical action. Lead dust can be absorbed through the respiratory system. However, inhaled lead does not accumulate in the lungs. All of an inhaled dose is eventually absorbed or transferred to the gastrointestinal tract. Inhalation effects of exposure to fumes or dust of inorganic lead may not develop quickly. Symptoms may include metallic taste, chest pain, decreased physical fitness, fatigue, sleep disturbance, headache, irritability, reduces memory, mood and personality changes, aching bones and muscles, constipation, abdominal pains, decreasing appetite. Inhalation of large amounts may lead to ataxia, delirium, convulsions/seizures, coma, and death. Lead metal foil, shot, or sheets: Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count. Ingestion: Lead metal granules or dust: The symptoms of lead poisoning include abdominal pain or cramps (lead colic), spasms, nausea, vomiting, headache, muscle weakness, hallucinations, distorted perceptions, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness and other symptoms similar to that of inhalation. Acute poisoning may result in high lead levels in the blood and urine, shock, coma and death in extreme cases. Lead metal foil, shot or sheets: Not an ingestion hazard for usual industrial handling.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information**Federal and State Regulations:**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Lead California prop. 65 (no significant risk level): Lead: 0.0005 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead Connecticut hazardous material survey.: Lead Illinois toxic substances disclosure to employee act: Lead Illinois chemical safety act: Lead New York release reporting list: Lead Rhode Island RTK hazardous substances: Lead Pennsylvania RTK: Lead

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):

R20/22- Harmful by inhalation and if swallowed. R33- Danger of cumulative effects. R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. S36/37- Wear suitable protective clothing and gloves. S44- If you feel unwell, seek medical advice (show the label when possible). S53- Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

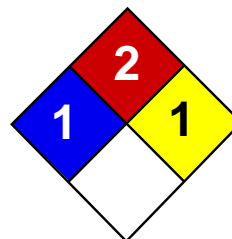
References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:21 PM

Last Updated: 11/01/2010 12:00 PM

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Health	1
Fire	2
Reactivity	1
Personal Protection	E

Material Safety Data Sheet

Iron Metal MSDS

Section 1: Chemical Product and Company Identification

Product Name: Iron Metal

Catalog Codes: SLI2047, SLI1996

CAS#: 7439-89-6

RTECS: NO4565500

TSCA: TSCA 8(b) inventory: Iron Metal

CI#: Not applicable.

Synonym:

Chemical Name: Iron

Chemical Formula: Fe

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Iron Metal, powder	7439-89-6	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to liver, cardiovascular system, upper respiratory tract, pancreas. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Explosive in presence of open flames and sparks, of heat.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:

Chlorine Trifluoride reacts with iron with incandescence. Powdered iron reacts with fluorine below redness with incandescence. Reduced iron decomposes with nitrogen dioxide @ ordinary temperature with incandescence. Reacting mass formed by mixture of phosphorus and iron can become incandescent when heated. This material is flammable in powder form only.

Special Remarks on Explosion Hazards: Material in powdered form can explode when exposed to heat or flame

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Moisture sensitive.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Solid metallic powder.)

Odor: Odorless.

Taste: Tasteless.

Molecular Weight: 55.85 g/mole

Color: Black to Grey.

pH (1% soln/water): Not applicable.

Boiling Point: 3000°C (5432°F)

Melting Point: 1535°C (2795°F)

Critical Temperature: Not available.

Specific Gravity: Density: 7.86 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water, diethyl ether.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, ignition sources, incompatible materials, water/moisture, air, dust generation.

Incompatibility with various substances:

Reactive with oxidizing agents, acids. Slightly reactive to reactive with moisture.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity:

Hot iron(wire) burns in Chlorine gas. Violent decomposition of hydrogen peroxide (53% by weight or greater) may be caused by contact with iron. Readily oxidizes in moist air forming rust. Reactive with halogens. Incompatible with acetaldehyde, ammonium peroxodisulfate, chloroformamidine, chloric acid, ammonium nitrate, dinitrogen tetroxide, nitryl fluoride, polystyrene, sodium acetylide, potassium dichromate, peroxyformic acid, sulfuric acid, sodium carbide. Readily attacked by dilute mineral acids and/or attacked or dissolved by organic acids. Not appreciably attacked by cold sulfuric acid, or nitric acid, but is attacked by hot acids.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 30000 mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: liver, cardiovascular system, upper respiratory tract, pancreas.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Iron metal filings or dust: May cause skin irritation by mechanical action. Iron metal wire: Not likely to cause skin irritation. Eyes: Iron metal filings or dust: Can irritate eyes by mechanical action. Iron metal wire: No hazard. Will not cause eye irritation. Inhalation: Iron dust: Can irritate the respiratory tract by mechanical action. Iron metal wire or filings: Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count. Ingestion: Iron metal wire: Not an ingestion hazard. Iron metal filings or dust: The amount of ingested iron which constitutes a toxic dose is not well defined. Proposed toxic doses of elemental iron are 20 mg/kg for gastrointestinal irritation to greater than 60 mg/kg for systemic toxicity. Gastrointestinal effects are the first signs to appear, with hemorrhagic vomiting and diarrhea, hematochezia, abdominal pain, lethargy, metabolic acidosis, coagulopathy, shock, coma and convulsions developing from 0 to 6 hours after ingestion. Leukocytosis may also occur. An asymptomatic phase may ensue at 6 to 12 hours post-ingestion, followed by hypoglycemia or hyperglycemia, hepatic and renal failure, severe acidosis, cyanosis, fever, CNS depression (lethargy, restlessness and/or confusion/seizures), hypotension, and cardiovascular collapse/cardiac failure in 12 to 48 hours. Hepatic cirrhosis, gastrointestinal scarring and/or strictures may arise in 2 to 6 weeks. It may also cause an anaphylactoid reaction. Non-cardiogenic pulmonary edema also develops in severe cases of iron intoxication. Chronic Potential Health Effects: Inhalation: Chronic inhalation of iron dust can lead to accumulation in the lungs and a characteristic stippled appearance on X-rays. This condition, called SIDEROSIS, is considered benign in that it does not interfere with lung function and does not predispose to other disease. Chronic inhalation of iron dust may also cause fibrosis in the lungs. Ingestion: Clinical signs of iron overload appear when the total body iron is 5 to 10 times higher than normal. Neurobehavioral defects including depression, decreased activity, habituation, reflex startle, and conditioned avoidance response performance may occur. However, similar effects were also seen in iron deficiency. It is therefore likely that these behavioral effects are secondary to general toxicity. High serum iron levels may be associated with an increased risk of fatal acute myocardial infarction (MI). Skin: Prolonged or repeated contact may cause hypersensitivity.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 4.1: Flammable solid.

Identification: : Metal powder, flammable, n.o.s. (Iron metal powder) UNNA: 3089 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:

California Director's List of Hazardous Substances: Iron Metal TSCA 8(b) inventory: Iron Metal

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS B-4: Flammable solid.

DSCL (EEC):

R11- Highly flammable. S16- Keep away from sources of ignition - No smoking. S22- Do not breathe dust.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 2

Reactivity: 1

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 2

Reactivity: 1

Specific hazard:

Protective Equipment:

Gloves Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 05:52 PM

Last Updated: 05/21/2013 12:00 PM

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APPENDIX B
Phase II Subsurface Investigation Report



June 15, 2015

CPC LLC
P.O. Box 2020
Monroe, NY 10949

Attn: Mr. Simon Gelb

Re: Phase II Subsurface Investigation Report
Clovewood – Village of South Blooming Grove, New York
Section 208, Block 1, Lots 2 and 3

Dear Mr. Gelb:

This letter report summarizes the findings and recommendations pertaining to the Phase II Subsurface Investigation performed by Tenen Environmental, LLC (Tenen) at the above-reference property. The report includes a description of the sampling methodology and discusses the analytical results. The purpose of this investigation was to assess the soil conditions at the former golf course area, former repair shop and near the discarded underground tanks and drums, and to determine the extent of solid waste identified in the Phase I Environmental Site Assessment (Phase I ESA) performed by Tenen Environmental in 2014.

Background

The property is located in the Village of South Blooming Grove, New York and is identified as Tax Map Section 208, Block 1, Lots 2 and 3 (Figure 1). The two parcels have a combined area of 708.2 acres.

During the Phase I ESA site visit, piles of waste and debris; discarded petroleum storage tanks, including an excavated tank with evidence of a release; and unmarked drums and containers were observed. The 2014 Phase I ESA identified the following Recognized Environmental Conditions (RECS):

- piles of waste and debris;
- petroleum storage tanks, including an excavated UST with evidence of a release;
- unmarked drums and pails;
- historic uses of the Site, including a mine, golf course, debris disposal, farmland and orchard; and,
- the multiple spill cases on the Site that have been closed by NYSDEC; these are considered *historical recognized environmental conditions*.

Based on the findings of the Phase I ESA, Tenen completed a Phase II subsurface investigation on May 20, 2015, including excavation of 17 test pits and soil sampling. Groundwater was not sampled in this investigation.

Sampling Methodology and Findings

Sampling Methodology. A total of 17 test pits (TP-1 through TP-17) were excavated during this investigation in the former golf course area, former repair shop, and in the vicinity of the discarded tanks, drums, and pails where stained soil was observed. Test pits were also excavated in the area of the solid waste piles to vertically and horizontally determine the extent of the solid waste. A backhoe was used to excavate the test pits. Test pits were excavated to depths ranged between one and eleven feet below grade. Test pit locations are shown on Figure 2.

Field Observation and Sample Collection. Four of seventeen test pits were excavated in the vicinity of the discarded tanks, one at the former repair shop, one in the former golf course area and eleven near the solid waste piles. Soil near the tanks consisted of fill to a maximum depth of three feet underlain by native soil of silt and sand. Material observed in the test pits near the solid waste piles consisted primarily of household refuse including bottles, tires, plastic bags, old cloth and roof shingles. A photographic log and copy of the field notes are presented in Appendices A and B, respectively.

One composite sample was collected from each of the following test pits: TP-4, TP-6, TP-8, TP-11 and TP-16. Soil screening using a photoionization detector (PID) indicated readings ranging from non-detect to a maximum of 10 parts per million (ppm) in test pit TP-11. Groundwater was not encountered during this investigation and no groundwater samples were collected.

A tank inventory was also performed to determine the total number of tanks at the Site. A total of nineteen 275-gallon aboveground storage tanks (ASTs), one 550-gallon AST and one 10,000-gallon AST were present at the Site.

A summary of sample designations, media sampled and locations is shown below. Sampling locations are shown in Figure 2.

Sampling Locations, Sample Designations and Media Sampled

Sample Location	Sample Name (Depth in ft-bg)	media sampled	Petroleum odor	PID reading at sampling interval (ppm)	Description of Location
TP-4	TP-4 (0-3)	Soil	No	ND	Former repair shop area where a 48 feet long and 2-foot wide trench was excavated.
TP-6	TP-6 (0-4)	Soil	No	ND	Near a discarded 550-gallon AST.
TP-8	TP-8 (0-11)	Soil	No	ND	Solid waste pile area, with observed household refuse
TP-11	TP-11 (0-5)	Soil	No	10.0	Near the pond adjacent to household refuse and discarded tires
TP-16	TP-16 (0-1)	Soil	No	ND	Former golf course area.

ft-bg – feet below grade

ND – none detected

Analytical Results. A total of four soil samples were analyzed for full scan volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs). The soil samples collected from the solid waste pile areas (TP-8 and TP-11) were also analyzed for Target Analyte List (TAL) metals. The soil sample collected from the former golf course area (TP-16) was only analyzed for pesticides.

The results of the sample analysis are presented below. The analytical results are included in Tables 1 through 4. Laboratory deliverables packages are included in Appendix C.

Soil

The soil results were compared to the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use soil cleanup objectives (SCOs) as listed in 6 NYCRR Part 375-6.8(a) and Residential Use and Restricted-Residential Use SCOs as listed in 6 NYCRR Part 375-6.8(b).

VOCs were not detected in any sample at concentrations above the Unrestricted Use SCOs.

SVOCs were detected above the Unrestricted, Residential, and Restricted Residential Use SCOs in the sample collected from test pit TP-4. At this one location SVOCs - specifically polyaromatic hydrocarbons (PAHs) - were detected at levels exceeding the Unrestricted, Residential and/or Restricted Residential Use SCOs. The seven SVOCs exceeding their respective Restricted Residential SCOs are benzo(a)anthracene [7.4 milligrams per kilogram (mg/kg)], benzo(a)pyrene (6.8 mg/kg) benzo(b)fluoranthene (8.7 mg/kg), benzo(k)fluoranthene (3.3 mg/kg), chrysene (7 mg/kg), dibenzo(a,h)anthracene (1.2 mg/kg) and indeno(1,2,3-cd)pyrene (5.3 mg/kg); the concentration of the SVOC benzo(k)fluoranthene (3.3 mg/kg) also exceed the Residential Use SCO.

Several metals typical of fill material, including copper and zinc, were detected above the Unrestricted Use SCOs in sample TP-8. Iron was also detected in samples TP-8 and TP-11 at levels above the Residential Use SCO.

Two pesticides, 4,4'-DDE and 4,4'-DDT, were detected above their Unrestricted Use SCOs, but below the Residential Use SCOs, in sample TP-16, collected from the former golf course area.

Conclusions and Recommendations

- No VOCs were detected in any soil sample at concentrations above the Unrestricted Use SCOs.
- SVOCs, specifically PAHs, were detected in soil sample TP-4 at levels exceeding the Restricted Residential Use SCOs.
- Several metals typical of fill material, including copper, iron, and zinc, were detected above the Unrestricted or Residential Use SCOs.
- Two pesticides, 4,4'-DDE and 4,4'-DDT, were detected above the Unrestricted Use SCO of in the former golf course area.
- Solid waste including household refuse consisting of bottles, tires, plastic bags, old cloth, and roof shingles were observed in ten test pits; these materials extended to depths ranging between three and eleven feet below grade.

- A total of nineteen 275-gallon ASTs, one 550-gallon AST and one 10,000-gallon AST are either discarded or abandoned at the Site.

Based on the Phase II Investigation Tenen recommends the following for the future development:

- Either cap or excavate and remove the soil with levels of SVOCs above the Residential Use SCO in the area of the former repair shop. Any off-site disposal should be in accordance with local, state, and federal regulations;
- Remove and dispose of solid waste consisting of household refuse encountered onsite. Roof shingles should be tested for asbestos prior to off-site disposal;
- Register and remove all ASTs in accordance of local, state, and federal regulations.

Please call me if you have any questions.

Sincerely,

Tenen Environmental, LLC

A handwritten signature in blue ink that reads "mohamed ahmed". The signature is written in a cursive, lowercase style.

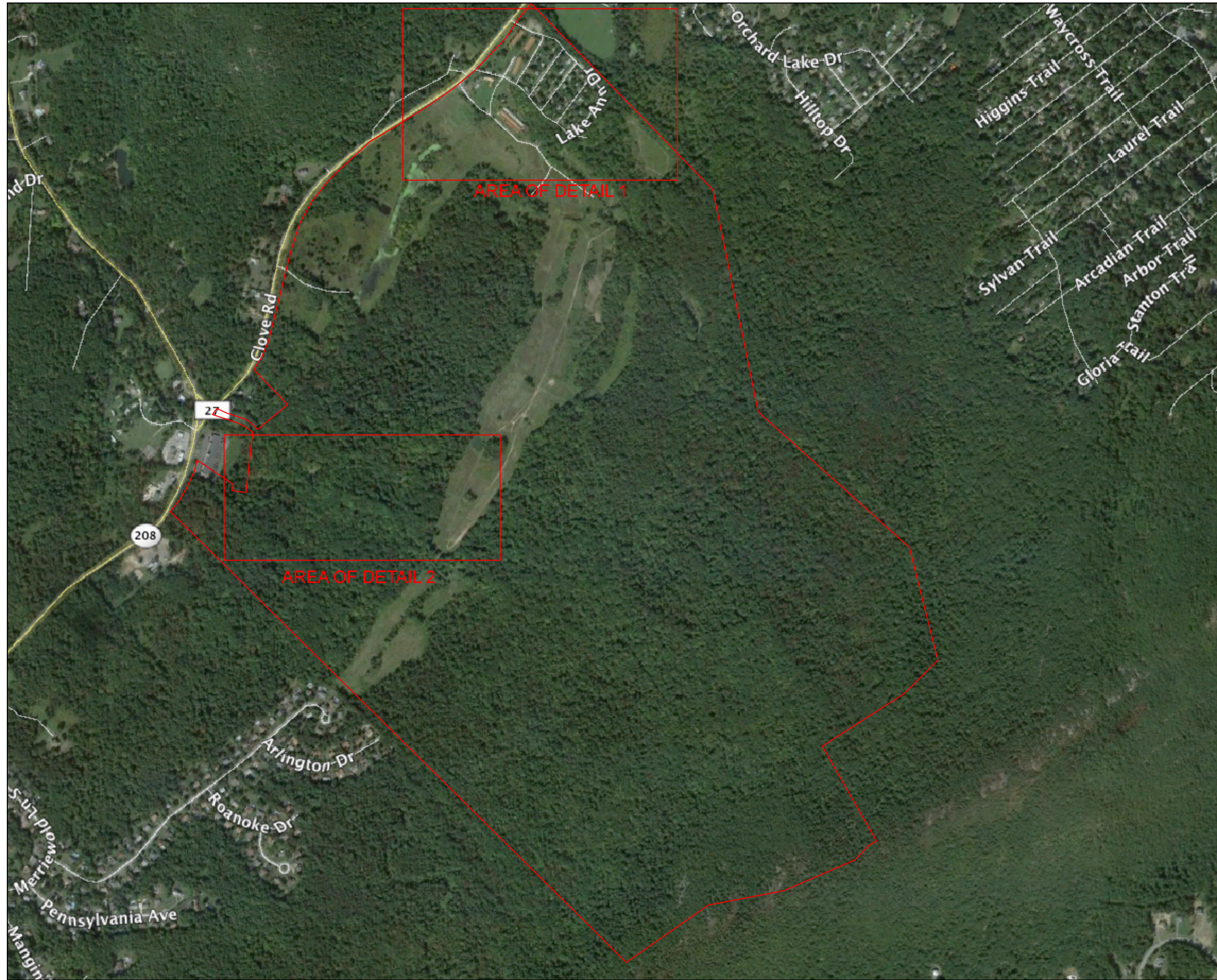
Mohamed Ahmed, Ph.D., CPG
Principal / Senior Geologist

121 West 27th Street, Suite 303
New York, NY 10001
646.606.2332

FIGURES



0 400 800
SCALE: 1" = 800'



RE: GOOGLE EARTH PRO AERIAL, 9/19/2013

DRAWING TITLE.

SITE LOCATION

DRAWING NO.

FIGURE 1

CONSULTANT

TENEN ENVIRONMENTAL

TENEN ENVIRONMENTAL, LLC
121 West 27th Street
Suite 1004
New York, NY 10001
O: 646-606-2332
F: 646-606-2379

CLIENT

505 CLOVE ROAD
SOUTH BLOOMING
GROVE, NY

DRAWN BY

MC

CHECKED BY

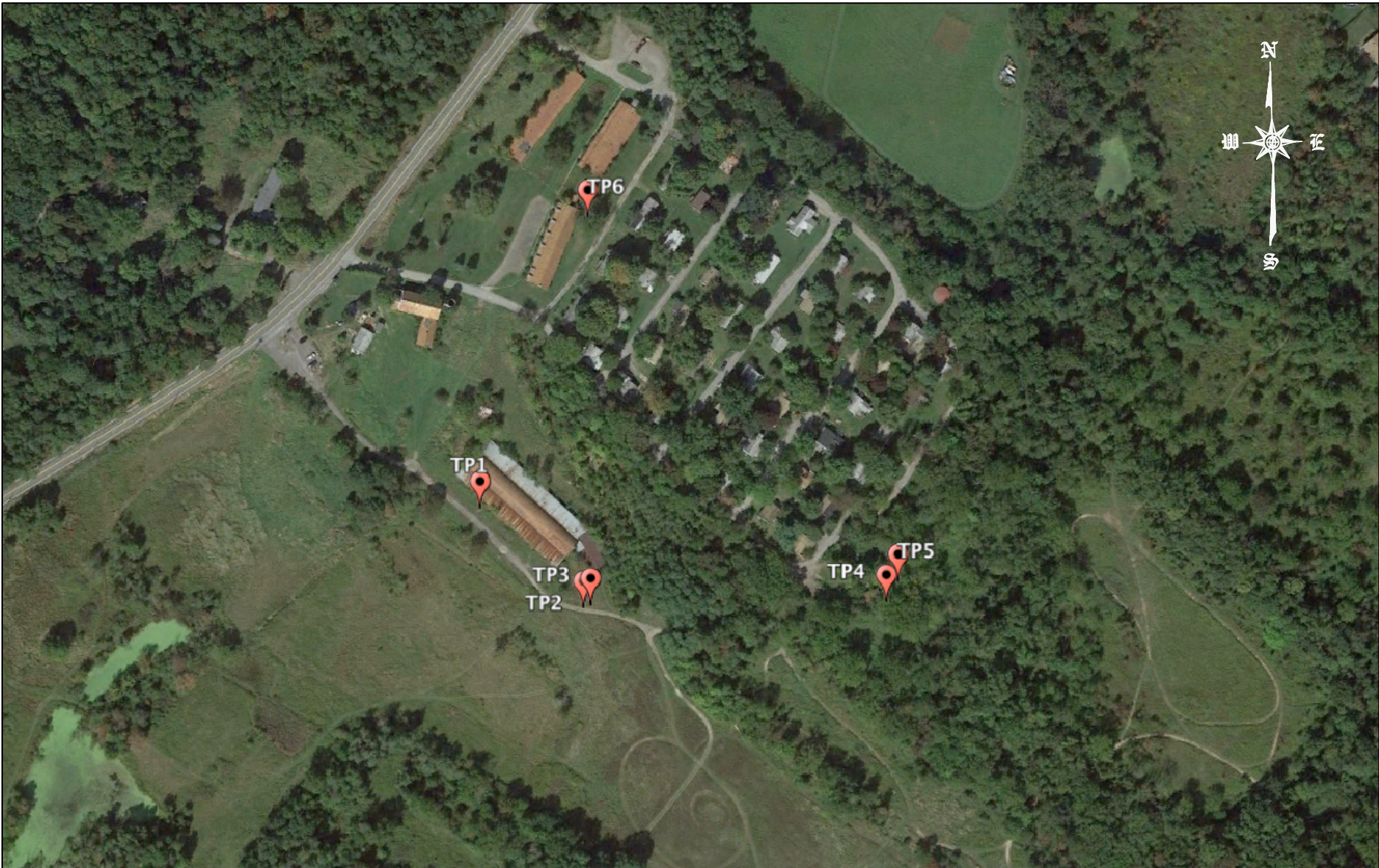
MM

DATE

JUNE 2015

SCALE

AS NOTED



AREA OF DETAIL 1



AREA OF DETAIL 2

DRAWING TITLE: SAMPLE LOCATIONS	DRAWN BY MC	<div>CONSULTANT</div> <div>TENEN ENVIRONMENTAL</div> <div>TENEN ENVIRONMENTAL, LLC 121 West 27th Street Suite 1004 New York, NY 10001 O: 646-606-2332 F: 646-606-2379</div>	CLIENT 505 CLOVE ROAD SOUTH BLOOMING GROVE, NY
	CHECKED BY MM		
DRAWING NO. FIGURE 2	DATE JUNE 2015		
	SCALE: AS NOTED		

TABLES

Table 1
Volatile Organic Compounds in Soil Samples

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE Unit (mg/kg)				TP-4 5/20/2015 L1511165-01 Composite		TP-6 5/20/2015 L1511165-02 Composite		TP-8 5/20/2015 L1511165-03 Composite		TP-11 5/20/2015 L1511165-04 Composite	
	NY-RESR	NY-RESRR	NY-UNRES		Qual		Qual		Qual		Qual
Methylene chloride	51	100	0.05	0.012	U	0.012	U	0.012	U	0.011	U
1,1-Dichloroethane	19	26	0.27	0.0017	U	0.0018	U	0.0018	U	0.0016	U
Chloroform	10	49	0.37	0.0017	U	0.0018	U	0.0018	U	0.0016	U
Carbon tetrachloride	1.4	2.4	0.76	0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,2-Dichloropropane				0.004	U	0.0043	U	0.0041	U	0.0038	U
Dibromochloromethane				0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,1,2-Trichloroethane				0.0017	U	0.0018	U	0.0018	U	0.0016	U
Tetrachloroethene	5.5	19	1.3	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Chlorobenzene	100	100	1.1	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Trichlorofluoromethane				0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,2-Dichloroethane	2.3	3.1	0.02	0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,1,1-Trichloroethane	100	100	0.68	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Bromodichloromethane				0.0012	U	0.0012	U	0.0012	U	0.0011	U
trans-1,3-Dichloropropene				0.0012	U	0.0012	U	0.0012	U	0.0011	U
cis-1,3-Dichloropropene				0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,3-Dichloropropene, Total				0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,1-Dichloropropene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
Bromoform				0.0046	U	0.0049	U	0.0047	U	0.0043	U
1,1,2,2-Tetrachloroethane	35			0.0012	U	0.0012	U	0.0012	U	0.0011	U
Benzene	2.9	4.8	0.06	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Toluene	100	100	0.7	0.0017	U	0.0018	U	0.0018	U	0.0016	U
Ethylbenzene	30	41	1	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Chloromethane				0.0058	U	0.0061	U	0.0059	U	0.0054	U
Bromomethane				0.0023	U	0.0024	U	0.0024	U	0.0022	U
Vinyl chloride	0.21	0.9	0.02	0.0023	U	0.0024	U	0.0024	U	0.0022	U
Chloroethane				0.0023	U	0.0024	U	0.0024	U	0.0022	U
1,1-Dichloroethene	100	100	0.33	0.0012	U	0.0012	U	0.0012	U	0.0011	U
trans-1,2-Dichloroethene	100	100	0.19	0.0017	U	0.0018	U	0.0018	U	0.0016	U
Trichloroethene	10	21	0.47	0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,2-Dichlorobenzene	100	100	1.1	0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,3-Dichlorobenzene	17	49	2.4	0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,4-Dichlorobenzene	9.8	13	1.8	0.0058	U	0.0061	U	0.0059	U	0.0054	U
Methyl tert butyl ether	62	100	0.93	0.0023	U	0.0024	U	0.0024	U	0.0022	U
p/m-Xylene				0.0023	U	0.0024	U	0.0024	U	0.0022	U
o-Xylene				0.0023	U	0.0024	U	0.0024	U	0.0022	U
Xylenes, Total	100	100	0.26	0.0023	U	0.0024	U	0.0024	U	0.0022	U
cis-1,2-Dichloroethene	59	100	0.25	0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,2-Dichloroethene, Total				0.0012	U	0.0012	U	0.0012	U	0.0011	U
Dibromomethane				0.012	U	0.012	U	0.012	U	0.011	U
Styrene				0.0023	U	0.0024	U	0.0024	U	0.0022	U
Dichlorodifluoromethane				0.012	U	0.012	U	0.012	U	0.011	U
Acetone	100	100	0.05	0.012	U	0.012	U	0.012	U	0.011	U
Carbon disulfide	100			0.012	U	0.012	U	0.012	U	0.011	U
2-Butanone	100	100	0.12	0.012	U	0.012	U	0.012	U	0.011	U
Vinyl acetate				0.012	U	0.012	U	0.012	U	0.011	U
4-Methyl-2-pentanone				0.012	U	0.012	U	0.012	U	0.011	U
1,2,3-Trichloropropane	80			0.012	U	0.012	U	0.012	U	0.011	U
2-Hexanone				0.012	U	0.012	U	0.012	U	0.011	U
Bromochloromethane				0.0058	U	0.0061	U	0.0059	U	0.0054	U
2,2-Dichloropropane				0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,2-Dibromoethane				0.0046	U	0.0049	U	0.0047	U	0.0043	U
1,3-Dichloropropane				0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,1,1,2-Tetrachloroethane				0.0012	U	0.0012	U	0.0012	U	0.0011	U
Bromobenzene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
n-Butylbenzene	100	100	12	0.0012	U	0.0012	U	0.0012	U	0.0011	U
sec-Butylbenzene	100	100	11	0.0012	U	0.0012	U	0.0012	U	0.0011	U
tert-Butylbenzene	100	100	5.9	0.0058	U	0.0061	U	0.0059	U	0.0054	U
o-Chlorotoluene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
p-Chlorotoluene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,2-Dibromo-3-chloropropane				0.0058	U	0.0061	U	0.0059	U	0.0054	U
Hexachlorobutadiene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
Isopropylbenzene	100			0.0012	U	0.0012	U	0.0012	U	0.0011	U
p-Isopropyltoluene				0.0012	U	0.0012	U	0.0012	U	0.0011	U
Naphthalene	100	100	12	0.0058	U	0.0061	U	0.0059	U	0.0054	U
Acrylonitrile				0.012	U	0.012	U	0.012	U	0.011	U
n-Propylbenzene	100	100	3.9	0.0012	U	0.0012	U	0.0012	U	0.0011	U
1,2,3-Trichlorobenzene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,2,4-Trichlorobenzene				0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,3,5-Trimethylbenzene	47	52	8.4	0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,2,4-Trimethylbenzene	47	52	3.6	0.0058	U	0.0061	U	0.0059	U	0.0054	U
1,4-Dioxane	9.8	13	0.1	0.12	U	0.12	U	0.12	U	0.11	U
p-Diethylbenzene				0.0046	U	0.0049	U	0.0047	U	0.0043	U
p-Ethyltoluene				0.0046	U	0.0049	U	0.0047	U	0.0043	U
1,2,4,5-Tetramethylbenzene				0.0046	U	0.0049	U	0.0047	U	0.0043	U
Ethyl ether				0.0058	U	0.0061	U	0.0059	U	0.0054	U
trans-1,4-Dichloro-2-butene				0.0058	U	0.0061	U	0.0059	U	0.0054	U

U = Undetected

Table 2
Semivolatile Compounds in Soil Samples

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE DEPTH (ft.) Units (mg/kg)	TP-4 5/20/2015 L1511165-01 Composite			TP-6 5/20/2015 L1511165-02 Composite			TP-8 5/20/2015 L1511165-03 Composite			TP-11 5/20/2015 L1511165-04 Composite			TP-4 5/20/2015 L1511165-01 R1 Composite		
	NY-RESR	NY-RESRR	NY-UNRES	Qual			Qual			Qual			Qual		
Acenaphthene	100	100	20	0.29			0.16	U		0.15	U		0.14	U	-
1,2,4-Trichlorobenzene				0.19	U		0.2	U		0.19	U		0.18	U	-
Hexachlorobenzene	0.41	1.2	0.33	0.11	U		0.12	U		0.11	U		0.1	U	-
Bis(2-chloroethyl)ether				0.17	U		0.18	U		0.17	U		0.16	U	-
2-Chloronaphthalene				0.19	U		0.2	U		0.19	U		0.18	U	-
1,2-Dichlorobenzene	100	100	1.1	0.19	U		0.2	U		0.19	U		0.18	U	-
1,3-Dichlorobenzene	17	49	2.4	0.19	U		0.2	U		0.19	U		0.18	U	-
1,4-Dichlorobenzene	9.8	13	1.8	0.19	U		0.2	U		0.19	U		0.18	U	-
3,3'-Dichlorobenzidine				0.19	U		0.2	U		0.19	U		0.18	U	-
2,4-Dinitrotoluene				0.19	U		0.2	U		0.19	U		0.18	U	-
2,6-Dinitrotoluene	1.03			0.19	U		0.2	U		0.19	U		0.18	U	-
Fluoranthene	100	100	100	18	E		0.12	U		0.058	J		0.1	U	13
4-Chlorophenyl phenyl ether				0.19	U		0.2	U		0.19	U		0.18	U	-
4-Bromophenyl phenyl ether				0.19	U		0.2	U		0.19	U		0.18	U	-
Bis(2-chloroisopropyl)ether				0.23	U		0.24	U		0.23	U		0.21	U	-
Bis(2-chloroethoxy)methane				0.2	U		0.21	U		0.21	U		0.19	U	-
Hexachlorobutadiene				0.19	U		0.2	U		0.19	U		0.18	U	-
Hexachlorocyclopentadiene				0.54	U		0.57	U		0.55	U		0.5	U	-
Hexachloroethane				0.15	U		0.16	U		0.15	U		0.14	U	-
Isophorone	100			0.17	U		0.18	U		0.17	U		0.16	U	-
Naphthalene	100	100	12	0.18	J		0.2	U		0.19	U		0.18	U	-
Nitrobenzene	3.7	15		0.17	U		0.18	U		0.17	U		0.16	U	-
NitrosoDiPhenylAmine(NDPA)/DPA				0.15	U		0.16	U		0.15	U		0.14	U	-
n-Nitrosodi-n-propylamine				0.19	U		0.2	U		0.19	U		0.18	U	-
Bis(2-Ethylhexyl)phthalate	50			0.4			0.2	U		0.13	J		0.067	J	-
Butyl benzyl phthalate	100			0.19	U		0.2	U		0.19	U		0.18	U	-
Di-n-butylphthalate	100			0.19	U		0.2	U		0.19	U		0.18	U	-
Di-n-octylphthalate	100			0.19	U		0.2	U		0.19	U		0.18	U	-
Diethyl phthalate	100			0.19	U		0.2	U		0.19	U		0.18	U	-
Dimethyl phthalate	100			0.19	U		0.2	U		0.19	U		0.18	U	-
Benzo(a)anthracene	1	1	1	7.4			0.12	U		0.039	J		0.1	U	-
Benzo(a)pyrene	1	1	1	7.8	E		0.16	U		0.15	U		0.14	U	6.8
Benzo(b)fluoranthene	1	1	1	10	E		0.12	U		0.044	J		0.1	U	8.7
Benzo(k)fluoranthene	1	3.9	0.8	3.3			0.12	U		0.11	U		0.1	U	-
Chrysene	1	3.9	1	7			0.12	U		0.046	J		0.1	U	-
Acenaphthylene	100	100	100	0.44			0.16	U		0.15	U		0.14	U	-
Anthracene	100	100	100	1.7			0.12	U		0.11	U		0.1	U	-
Benzo(ghi)perylene	100	100	100	4.9			0.16	U		0.15	U		0.14	U	-
Fluorene	100	100	30	0.35			0.2	U		0.19	U		0.18	U	-
Phenanthrene	100	100	100	7.7	E		0.12	U		0.11	U		0.1	U	6.8
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1.2			0.12	U		0.11	U		0.1	U	-
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.5	5.3			0.16	U		0.15	U		0.14	U	-
Pyrene	100	100	100	16	E		0.12	U		0.066	J		0.1	U	11
Biphenyl				0.43	U		0.45	U		0.44	U		0.4	U	-
4-Chloroaniline	100			0.19	U		0.2	U		0.19	U		0.18	U	-
2-Nitroaniline				0.19	U		0.2	U		0.19	U		0.18	U	-
3-Nitroaniline				0.19	U		0.2	U		0.19	U		0.18	U	-
4-Nitroaniline				0.19	U		0.2	U		0.19	U		0.18	U	-
Dibenzofuran	14	59	7	0.26			0.2	U		0.19	U		0.18	U	-
2-Methylnaphthalene	0.41			0.16	J		0.24	U		0.23	U		0.21	U	-
1,2,4,5-Tetrachlorobenzene				0.19	U		0.2	U		0.19	U		0.18	U	-
Acetophenone				0.19	U		0.2	U		0.19	U		0.18	U	-
2,4,6-Trichlorophenol				0.11	U		0.12	U		0.11	U		0.1	U	-
p-Chloro-M-Cresol				0.19	U		0.2	U		0.19	U		0.18	U	-
2-Chlorophenol	100			0.19	U		0.2	U		0.19	U		0.18	U	-
2,4-Dichlorophenol	100			0.17	U		0.18	U		0.17	U		0.16	U	-
2,4-Dimethylphenol				0.19	U		0.2	U		0.19	U		0.18	U	-
2-Nitrophenol				0.41	U		0.43	U		0.41	U		0.38	U	-
4-Nitrophenol				0.26	U		0.28	U		0.27	U		0.24	U	-
2,4-Dinitrophenol	100			0.91	U		0.95	U		0.92	U		0.84	U	-
4,6-Dinitro-o-cresol				0.49	U		0.52	U		0.5	U		0.46	U	-
Pentachlorophenol	2.4	6.7	0.8	0.15	U		0.16	U		0.15	U		0.14	U	-
Phenol	100	100	0.33	0.19	U		0.2	U		0.19	U		0.18	U	-
2-Methylphenol	100	100	0.33	0.19	U		0.2	U		0.19	U		0.18	U	-
3-Methylphenol/4-Methylphenol	100	100	0.33	0.27	U		0.28	U		0.28	U		0.25	U	-
2,4,5-Trichlorophenol	100			0.19	U		0.2	U		0.19	U		0.18	U	-
Benzoic Acid	100			0.61	U		0.64	U		0.62	U		0.57	U	-
Benzyl Alcohol				0.19	U		0.2	U		0.19	U		0.18	U	-
Carbazole				0.32			0.2	U		0.19	U		0.18	U	-

U = Undetected

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Estimated Value

Table 3
TAL Metals in Soil Samples

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE Units (mg/kg)				TP-8 5/20/2015 L1511165-03 Composite	TP-11 5/20/2015 L1511165-04 Composite
	NY-RESR	NY-RESRR	NY-UNRES	Qual	Qual
Aluminum, Total				11000	10000
Antimony, Total				1.1 J	4.2 U
Arsenic, Total	16	16	13	4.7	2.1
Barium, Total	350	400	350	38	27
Beryllium, Total	14	72	7.2	0.3 J	0.37 J
Cadmium, Total	2.5	4.3	2.5	0.94 U	0.84 U
Calcium, Total				13000	2800
Chromium, Total				19	15
Cobalt, Total	30			8.3	8.9
Copper, Total	270	270	50	65	24
Iron, Total	2000			26000	24000
Lead, Total	400	400	63	31	11
Magnesium, Total				3700	5200
Manganese, Total	2000	2000	1600	620	690
Mercury, Total	0.81	0.81	0.18	0.07 J	0.04 J
Nickel, Total	140	310	30	20	20
Potassium, Total				440	410
Selenium, Total	36	180	3.9	1.9 U	1.7 U
Silver, Total	36	180	2	0.94 U	0.84 U
Sodium, Total				41 J	170 U
Thallium, Total				1.9 U	1.7 U
Vanadium, Total	100			11	14
Zinc, Total	2200	10000	109	160	66

U = Undetected

J = Estimated Value

Table 4
Pesticides in Soil Sample

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE Units (mg/kg)				TP-16 5/20/2015 L1511165-05 Composite	
	NY-RESR	NY-RESRR	NY-UNRES	Qual	
Solids, Total				85.4	
Delta-BHC	100	100	0.04	0.00183	U
Lindane	0.28	1.3	0.1	0.000763	U
Alpha-BHC	0.097	0.48	0.02	0.000763	U
Beta-BHC	0.072	0.36	0.036	0.00183	U
Heptachlor	0.42	2.1	0.042	0.000915	U
Aldrin	0.019	0.097	0.005	0.00183	U
Heptachlor epoxide	0.077			0.025	
Endrin	2.2	11	0.014	0.000763	U
Endrin ketone				0.00183	U
Dieldrin	0.039	0.2	0.005	0.00114	U
4,4'-DDE	1.8	8.9	0.0033	0.0096	
4,4'-DDD	2.6	13	0.0033	0.00183	U
4,4'-DDT	1.7	7.9	0.0033	0.0122	
Endosulfan I	4.8	24	2.4	0.00183	U
Endosulfan II	4.8	24	2.4	0.00183	U
Endosulfan sulfate	4.8	24	2.4	0.000763	U
Methoxychlor	100			0.00343	U
Toxaphene				0.0343	U
cis-Chlordane	0.91	4.2	0.094	0.076	
trans-Chlordane	0.54			0.0449	
Chlordane				0.331	

U = Undetected

APPENDIX A

Photographs Log



TP1



TP2



TP3



TP4



TP5



TP6



AST near TP6



Solid waste pile



TP7



TP8 stockpile



TP8



TP8 stockpile



TP9



TP9 stockpile



TP10



TP11



TP12



TP13



TP14



TP15



TP16



TP17

APPENDIX B

Field Notes

Cloverwood 5/20/15

0800 Tenon on-site, Mohamed Khmed
Matthew Carusi

Simon Feld

Backhoe, operator: Charlie

we: cloudy, low 60's

Purpose: investigate tanks & dumping areas.

TP1: near 550-gal AST, on ground (0825)

Fine SILT to 2ft log

No odor, PID: 0.0 ppm.

TP2: near abandoned 550-gal AST (removed),
on ground (0825).

Fine SILT, no odor, PID: 0.0 ppm

TP3: near abandoned 550-gal AST

Fine SILT, no odor, PID: 0.0 ppm

TP4, tank 48' long: near front of garage area.

Fine SILT w/ shale, no odor, PID: 0.0 ppm.

0855 Collect TP4 from surface composite of
five grabs. PID: 0.0 ppm. VOCs / SVOCs

Cloverwood 5/20/15

TP5: near the pile, to confirm surficial
0925 only. Native soil immediately
below visible tires.

TP6: near large AST, 6" below ground
0935 8' 6" x 12.5' long, petn. odor
from tank vent.

4' deep test pit, no odor, PID:
0.0 ppm. SILT w/ shales & clay.
Collect sample TP6 for VOCs / SVOCs
0940

TP7
1020 ~~near~~ into soil mound, sand
silt with some refuse. no odor,
PID: 0.0 ppm.

[Per operator, near bathroom area,
may be overburden]

TP8
1025 mixed sand and refuse (bottles, glass,
metal, appliances, plastic). No odor,
PID: 0.0 ppm. Native silty sand fine gr
sandy, wet @ 11ft log.

Collect sample @ 1045 for VOCs / SVOCs.

APPENDIX C

Laboratory Deliverables Package



ANALYTICAL REPORT

Lab Number:	L1511165
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 1004 New York City, NY
ATTN:	Mohamed Ahmed
Phone:	(646) 606-2332
Project Name:	505 CLOVE ROAD
Project Number:	505 CLOVE
Report Date:	05/29/15

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 505 CLOVE ROAD
Project Number: 505 CLOVE

Lab Number: L1511165
Report Date: 05/29/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1511165-01	TP-4	SOIL	VILLAGE OF BLOOMING GROVE, NY	05/20/15 08:56	05/21/15
L1511165-02	TP-6	SOIL	VILLAGE OF BLOOMING GROVE, NY	05/20/15 09:35	05/21/15
L1511165-03	TP-8	SOIL	VILLAGE OF BLOOMING GROVE, NY	05/20/15 10:25	05/21/15
L1511165-04	TP-11	SOIL	VILLAGE OF BLOOMING GROVE, NY	05/20/15 11:30	05/21/15
L1511165-05	TP-16	SOIL	VILLAGE OF BLOOMING GROVE, NY	05/20/15 12:20	05/21/15

Project Name: 505 CLOVE ROAD
Project Number: 505 CLOVE

Lab Number: L1511165
Report Date: 05/29/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 505 CLOVE ROAD
Project Number: 505 CLOVE

Lab Number: L1511165
Report Date: 05/29/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics


Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L1511165-03 and -04 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 05/29/15

ORGANICS

VOLATILES

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-01
Client ID: TP-4
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/15 16:48
Analyst: BN
Percent Solids: 87%

Date Collected: 05/20/15 08:56
Date Received: 05/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.16	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.8	0.34	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.14	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.18	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-01

Date Collected: 05/20/15 08:56

Client ID: TP-4

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.23	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylenes, Total	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.31	1
Vinyl acetate	ND		ug/kg	12	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.77	1
Bromochloromethane	ND		ug/kg	5.8	0.32	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.8	0.16	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.26	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.8	0.16	1
Acrylonitrile	ND		ug/kg	12	0.59	1
n-Propylbenzene	ND		ug/kg	1.2	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-01

Date Collected: 05/20/15 08:56

Client ID: TP-4

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	ND		ug/kg	4.6	0.18	1
p-Ethyltoluene	ND		ug/kg	4.6	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	103		70-130

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-02
Client ID: TP-6
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/15 17:16
Analyst: BN
Percent Solids: 82%

Date Collected: 05/20/15 09:35
Date Received: 05/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.17	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-02

Date Collected: 05/20/15 09:35

Client ID: TP-6

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
Xylenes, Total	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.28	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.1	0.16	1
o-Chlorotoluene	ND		ug/kg	6.1	0.20	1
p-Chlorotoluene	ND		ug/kg	6.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.63	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.18	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-02

Date Collected: 05/20/15 09:35

Client ID: TP-6

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
1,4-Dioxane	ND		ug/kg	120	18.	1
p-Diethylbenzene	ND		ug/kg	4.9	0.20	1
p-Ethyltoluene	ND		ug/kg	4.9	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.9	0.16	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	76		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	104		70-130

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-03
Client ID: TP-8
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/15 17:45
Analyst: BN
Percent Solids: 84%

Date Collected: 05/20/15 10:25
Date Received: 05/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.17	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.9	0.35	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.18	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-03

Date Collected: 05/20/15 10:25

Client ID: TP-8

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.23	1
o-Xylene	ND		ug/kg	2.4	0.20	1
Xylenes, Total	ND		ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.79	1
Bromochloromethane	ND		ug/kg	5.9	0.33	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	5.9	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.9	0.16	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.47	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	5.9	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-03

Date Collected: 05/20/15 10:25

Client ID: TP-8

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	ND		ug/kg	4.7	0.19	1
p-Ethyltoluene	ND		ug/kg	4.7	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	94		70-130

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-04
Client ID: TP-11
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/15 18:13
Analyst: BN
Percent Solids: 93%

Date Collected: 05/20/15 11:30
Date Received: 05/21/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.15	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.4	0.32	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.16	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-04

Date Collected: 05/20/15 11:30

Client ID: TP-11

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.21	1
o-Xylene	ND		ug/kg	2.2	0.18	1
Xylenes, Total	ND		ug/kg	2.2	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.20	1
Acetone	ND		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.29	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.4	0.14	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.24	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.13	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.15	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-04

Date Collected: 05/20/15 11:30

Client ID: TP-11

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/15 09:10
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG788359-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/15 09:10
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG788359-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/15 09:10
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG788359-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Diisopropyl Ether	ND		ug/kg	4.0	0.14
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 05/26/15 09:10

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG788359-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG788359-1 WG788359-2								
Methylene chloride	97		96		70-130	1		30
1,1-Dichloroethane	95		92		70-130	3		30
Chloroform	98		96		70-130	2		30
Carbon tetrachloride	107		102		70-130	5		30
1,2-Dichloropropane	96		95		70-130	1		30
Dibromochloromethane	84		99		70-130	16		30
2-Chloroethylvinyl ether	94		91		70-130	3		30
1,1,2-Trichloroethane	79		93		70-130	16		30
Tetrachloroethene	93		99		70-130	6		30
Chlorobenzene	103		100		70-130	3		30
Trichlorofluoromethane	112		102		70-139	9		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	104		98		70-130	6		30
Bromodichloromethane	94		95		70-130	1		30
trans-1,3-Dichloropropene	77		90		70-130	16		30
cis-1,3-Dichloropropene	95		95		70-130	0		30
1,1-Dichloropropene	104		95		70-130	9		30
Bromoform	85		94		70-130	10		30
1,1,2,2-Tetrachloroethane	82		78		70-130	5		30
Benzene	99		96		70-130	3		30
Toluene	81		90		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG788359-1 WG788359-2								
Ethylbenzene	109		96		70-130	13		30
Chloromethane	95		86		52-130	10		30
Bromomethane	127		121		57-147	5		30
Vinyl chloride	109		96		67-130	13		30
Chloroethane	107		102		50-151	5		30
1,1-Dichloroethene	112		97		65-135	14		30
trans-1,2-Dichloroethene	103		96		70-130	7		30
Trichloroethene	109		105		70-130	4		30
1,2-Dichlorobenzene	90		102		70-130	13		30
1,3-Dichlorobenzene	107		104		70-130	3		30
1,4-Dichlorobenzene	107		105		70-130	2		30
Methyl tert butyl ether	92		92		66-130	0		30
p/m-Xylene	107		101		70-130	6		30
o-Xylene	105		102		70-130	3		30
cis-1,2-Dichloroethene	102		98		70-130	4		30
Dibromomethane	97		98		70-130	1		30
Styrene	101		100		70-130	1		30
Dichlorodifluoromethane	115		102		30-146	12		30
Acetone	86		80		54-140	7		30
Carbon disulfide	106		95		59-130	11		30
2-Butanone	87		82		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG788359-1 WG788359-2								
Vinyl acetate	90		90		70-130	0		30
4-Methyl-2-pentanone	86		88		70-130	2		30
1,2,3-Trichloropropane	96		85		68-130	12		30
2-Hexanone	91		79		70-130	14		30
Bromochloromethane	105		105		70-130	0		30
2,2-Dichloropropane	99		94		70-130	5		30
1,2-Dibromoethane	87		96		70-130	10		30
1,3-Dichloropropane	78		92		69-130	16		30
1,1,1,2-Tetrachloroethane	96		99		70-130	3		30
Bromobenzene	104		103		70-130	1		30
n-Butylbenzene	109		102		70-130	7		30
sec-Butylbenzene	112		100		70-130	11		30
tert-Butylbenzene	112		101		70-130	10		30
o-Chlorotoluene	106		96		70-130	10		30
p-Chlorotoluene	112		97		70-130	14		30
1,2-Dibromo-3-chloropropane	75		88		68-130	16		30
Hexachlorobutadiene	105		113		67-130	7		30
Isopropylbenzene	108		98		70-130	10		30
p-Isopropyltoluene	111		104		70-130	7		30
Naphthalene	82		98		70-130	18		30
Acrylonitrile	89		91		70-130	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG788359-1 WG788359-2								
Diisopropyl Ether	92		92		66-130	0		30
Tert-Butyl Alcohol	77		79		70-130	3		30
n-Propylbenzene	112		99		70-130	12		30
1,2,3-Trichlorobenzene	93		117		70-130	23		30
1,2,4-Trichlorobenzene	96		109		70-130	13		30
1,3,5-Trimethylbenzene	110		99		70-130	11		30
1,2,4-Trimethylbenzene	113		102		70-130	10		30
Methyl Acetate	85		84		51-146	1		30
Ethyl Acetate	86		88		70-130	2		30
Acrolein	91		89		70-130	2		30
Cyclohexane	104		95		59-142	9		30
1,4-Dioxane	78		79		65-136	1		30
Freon-113	111		101		50-139	9		30
p-Diethylbenzene	110		104		70-130	6		30
p-Ethyltoluene	111		100		70-130	10		30
1,2,4,5-Tetramethylbenzene	92		102		70-130	10		30
Tetrahydrofuran	87		90		66-130	3		30
Ethyl ether	118		120		67-130	2		30
trans-1,4-Dichloro-2-butene	88		82		70-130	7		30
Methyl cyclohexane	110		101		70-130	9		30
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG788359-1 WG788359-2								
Tertiary-Amyl Methyl Ether	92		93		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		91		70-130
Toluene-d8	86		100		70-130
4-Bromofluorobenzene	110		96		70-130
Dibromofluoromethane	103		103		70-130

SEMIVOLATILES

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-01
Client ID: TP-4
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/29/15 00:05
Analyst: PS
Percent Solids: 87%

Date Collected: 05/20/15 08:56
Date Received: 05/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	290		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	18000	E	ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	180	J	ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	400		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-01

Date Collected: 05/20/15 08:56

Client ID: TP-4

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	7400		ug/kg	110	37.	1
Benzo(a)pyrene	7800	E	ug/kg	150	46.	1
Benzo(b)fluoranthene	10000	E	ug/kg	110	38.	1
Benzo(k)fluoranthene	3300		ug/kg	110	36.	1
Chrysene	7000		ug/kg	110	37.	1
Acenaphthylene	440		ug/kg	150	35.	1
Anthracene	1700		ug/kg	110	32.	1
Benzo(ghi)perylene	4900		ug/kg	150	39.	1
Fluorene	350		ug/kg	190	54.	1
Phenanthrene	7700	E	ug/kg	110	37.	1
Dibenzo(a,h)anthracene	1200		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	5300		ug/kg	150	42.	1
Pyrene	16000	E	ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	260		ug/kg	190	63.	1
2-Methylnaphthalene	160	J	ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	320		ug/kg	190	41.	1

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-01**Date Collected:** 05/20/15 08:56**Client ID:** TP-4**Date Received:** 05/21/15**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	39		18-120

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-01 D
Client ID: TP-4
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/29/15 12:56
Analyst: PS
Percent Solids: 87%

Date Collected: 05/20/15 08:56
Date Received: 05/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Fluoranthene	13000		ug/kg	570	170	5
Benzo(a)pyrene	6800		ug/kg	760	230	5
Benzo(b)fluoranthene	8700		ug/kg	570	190	5
Phenanthrene	6800		ug/kg	570	180	5
Pyrene	11000		ug/kg	570	180	5

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-02
 Client ID: TP-6
 Sample Location: VILLAGE OF BLOOMING GROVE, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/29/15 00:31
 Analyst: PS
 Percent Solids: 82%

Date Collected: 05/20/15 09:35
 Date Received: 05/21/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	41.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	65.	1
Hexachlorobenzene	ND		ug/kg	120	37.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	56.	1
2-Chloronaphthalene	ND		ug/kg	200	65.	1
1,2-Dichlorobenzene	ND		ug/kg	200	65.	1
1,3-Dichlorobenzene	ND		ug/kg	200	62.	1
1,4-Dichlorobenzene	ND		ug/kg	200	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	43.	1
2,6-Dinitrotoluene	ND		ug/kg	200	51.	1
Fluoranthene	ND		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	60.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	46.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	70.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	60.	1
Hexachlorobutadiene	ND		ug/kg	200	56.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	130	1
Hexachloroethane	ND		ug/kg	160	36.	1
Isophorone	ND		ug/kg	180	53.	1
Naphthalene	ND		ug/kg	200	66.	1
Nitrobenzene	ND		ug/kg	180	47.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	42.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	59.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	52.	1
Butyl benzyl phthalate	ND		ug/kg	200	39.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	49.	1
Diethyl phthalate	ND		ug/kg	200	42.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-02

Date Collected: 05/20/15 09:35

Client ID: TP-6

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	120	39.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	40.	1
Benzo(k)fluoranthene	ND		ug/kg	120	38.	1
Chrysene	ND		ug/kg	120	39.	1
Acenaphthylene	ND		ug/kg	160	37.	1
Anthracene	ND		ug/kg	120	33.	1
Benzo(ghi)perylene	ND		ug/kg	160	41.	1
Fluorene	ND		ug/kg	200	57.	1
Phenanthrene	ND		ug/kg	120	39.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	44.	1
Pyrene	ND		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	450	65.	1
4-Chloroaniline	ND		ug/kg	200	52.	1
2-Nitroaniline	ND		ug/kg	200	56.	1
3-Nitroaniline	ND		ug/kg	200	55.	1
4-Nitroaniline	ND		ug/kg	200	54.	1
Dibenzofuran	ND		ug/kg	200	66.	1
2-Methylnaphthalene	ND		ug/kg	240	63.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	61.	1
Acetophenone	ND		ug/kg	200	61.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	58.	1
2-Chlorophenol	ND		ug/kg	200	60.	1
2,4-Dichlorophenol	ND		ug/kg	180	64.	1
2,4-Dimethylphenol	ND		ug/kg	200	59.	1
2-Nitrophenol	ND		ug/kg	430	62.	1
4-Nitrophenol	ND		ug/kg	280	64.	1
2,4-Dinitrophenol	ND		ug/kg	950	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	73.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	59.	1
2-Methylphenol	ND		ug/kg	200	64.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	65.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	64.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	43.	1

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-02**Date Collected:** 05/20/15 09:35**Client ID:** TP-6**Date Received:** 05/21/15**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	45		18-120

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-03
 Client ID: TP-8
 Sample Location: VILLAGE OF BLOOMING GROVE, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/29/15 00:57
 Analyst: PS
 Percent Solids: 84%

Date Collected: 05/20/15 10:25
 Date Received: 05/21/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	110	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	58	J	ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	130	J	ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-03

Date Collected: 05/20/15 10:25

Client ID: TP-8

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	39	J	ug/kg	110	38.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	44	J	ug/kg	110	39.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	46	J	ug/kg	110	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	66	J	ug/kg	110	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-03

Date Collected: 05/20/15 10:25

Client ID: TP-8

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	47		18-120

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-04
 Client ID: TP-11
 Sample Location: VILLAGE OF BLOOMING GROVE, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/29/15 01:22
 Analyst: PS
 Percent Solids: 93%

Date Collected: 05/20/15 11:30
 Date Received: 05/21/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	100	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	180	57.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	55.	1
1,4-Dichlorobenzene	ND		ug/kg	180	53.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	45.	1
Fluoranthene	ND		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	62.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	180	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	ND		ug/kg	180	58.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	52.	1
Bis(2-Ethylhexyl)phthalate	67	J	ug/kg	180	46.	1
Butyl benzyl phthalate	ND		ug/kg	180	34.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	43.	1
Diethyl phthalate	ND		ug/kg	180	37.	1
Dimethyl phthalate	ND		ug/kg	180	44.	1

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-04

Date Collected: 05/20/15 11:30

Client ID: TP-11

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	34.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	35.	1
Benzo(k)fluoranthene	ND		ug/kg	100	33.	1
Chrysene	ND		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	33.	1
Anthracene	ND		ug/kg	100	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	36.	1
Fluorene	ND		ug/kg	180	50.	1
Phenanthrene	ND		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	39.	1
Pyrene	ND		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	58.	1
4-Chloroaniline	ND		ug/kg	180	46.	1
2-Nitroaniline	ND		ug/kg	180	49.	1
3-Nitroaniline	ND		ug/kg	180	48.	1
4-Nitroaniline	ND		ug/kg	180	47.	1
Dibenzofuran	ND		ug/kg	180	58.	1
2-Methylnaphthalene	ND		ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	54.	1
Acetophenone	ND		ug/kg	180	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	180	51.	1
2-Chlorophenol	ND		ug/kg	180	53.	1
2,4-Dichlorophenol	ND		ug/kg	160	57.	1
2,4-Dimethylphenol	ND		ug/kg	180	52.	1
2-Nitrophenol	ND		ug/kg	380	55.	1
4-Nitrophenol	ND		ug/kg	240	57.	1
2,4-Dinitrophenol	ND		ug/kg	840	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	64.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	52.	1
2-Methylphenol	ND		ug/kg	180	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	57.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	38.	1

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-04**Date Collected:** 05/20/15 11:30**Client ID:** TP-11**Date Received:** 05/21/15**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	83		18-120

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/26/15 13:40
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG787945-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/26/15 13:40
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG787945-1					
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	55.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/26/15 13:40
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 05/26/15 08:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG787945-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG787945-2 WG787945-3								
Acenaphthene	67		73		31-137	9		50
1,2,4-Trichlorobenzene	64		67		38-107	5		50
Hexachlorobenzene	70		77		40-140	10		50
Bis(2-chloroethyl)ether	65		69		40-140	6		50
2-Chloronaphthalene	68		76		40-140	11		50
1,2-Dichlorobenzene	64		68		40-140	6		50
1,3-Dichlorobenzene	64		68		40-140	6		50
1,4-Dichlorobenzene	63		66		28-104	5		50
3,3'-Dichlorobenzidine	65		68		40-140	5		50
2,4-Dinitrotoluene	73		77		28-89	5		50
2,6-Dinitrotoluene	69		78		40-140	12		50
Fluoranthene	75		79		40-140	5		50
4-Chlorophenyl phenyl ether	69		75		40-140	8		50
4-Bromophenyl phenyl ether	69		79		40-140	14		50
Bis(2-chloroisopropyl)ether	65		70		40-140	7		50
Bis(2-chloroethoxy)methane	65		73		40-117	12		50
Hexachlorobutadiene	68		72		40-140	6		50
Hexachlorocyclopentadiene	61		67		40-140	9		50
Hexachloroethane	62		65		40-140	5		50
Isophorone	67		76		40-140	13		50
Naphthalene	67		71		40-140	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG787945-2 WG787945-3								
Nitrobenzene	67		71		40-140	6		50
NitrosoDiPhenylAmine(NDPA)/DPA	72		78		36-157	8		50
n-Nitrosodi-n-propylamine	68		75		32-121	10		50
Bis(2-Ethylhexyl)phthalate	73		79		40-140	8		50
Butyl benzyl phthalate	77		83		40-140	8		50
Di-n-butylphthalate	75		81		40-140	8		50
Di-n-octylphthalate	75		82		40-140	9		50
Diethyl phthalate	71		78		40-140	9		50
Dimethyl phthalate	70		76		40-140	8		50
Benzo(a)anthracene	70		77		40-140	10		50
Benzo(a)pyrene	70		76		40-140	8		50
Benzo(b)fluoranthene	70		76		40-140	8		50
Benzo(k)fluoranthene	69		76		40-140	10		50
Chrysene	67		75		40-140	11		50
Acenaphthylene	70		78		40-140	11		50
Anthracene	72		79		40-140	9		50
Benzo(ghi)perylene	71		77		40-140	8		50
Fluorene	69		76		40-140	10		50
Phenanthrene	71		76		40-140	7		50
Dibenzo(a,h)anthracene	72		77		40-140	7		50
Indeno(1,2,3-cd)Pyrene	72		77		40-140	7		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG787945-2 WG787945-3								
Pyrene	73		79		35-142	8		50
Biphenyl	68		74		54-104	8		50
4-Chloroaniline	60		65		40-140	8		50
2-Nitroaniline	72		79		47-134	9		50
3-Nitroaniline	60		66		26-129	10		50
4-Nitroaniline	69		75		41-125	8		50
Dibenzofuran	68		75		40-140	10		50
2-Methylnaphthalene	67		75		40-140	11		50
1,2,4,5-Tetrachlorobenzene	67		72		40-117	7		50
Acetophenone	72		78		14-144	8		50
2,4,6-Trichlorophenol	73		78		30-130	7		50
P-Chloro-M-Cresol	74		80		26-103	8		50
2-Chlorophenol	68		73		25-102	7		50
2,4-Dichlorophenol	71		78		30-130	9		50
2,4-Dimethylphenol	74		80		30-130	8		50
2-Nitrophenol	64		73		30-130	13		50
4-Nitrophenol	77		85		11-114	10		50
2,4-Dinitrophenol	48		49		4-130	2		50
4,6-Dinitro-o-cresol	70		73		10-130	4		50
Pentachlorophenol	68		75		17-109	10		50
Phenol	69		74		26-90	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG787945-2 WG787945-3								
2-Methylphenol	70		76		30-130.	8		50
3-Methylphenol/4-Methylphenol	71		80		30-130	12		50
2,4,5-Trichlorophenol	72		80		30-130	11		50
Benzoic Acid	23		18		10-66	24		50
Benzyl Alcohol	71		80		40-140	12		50
Carbazole	71		77		54-128	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		70		25-120
Phenol-d6	69		75		10-120
Nitrobenzene-d5	67		73		23-120
2-Fluorobiphenyl	68		74		30-120
2,4,6-Tribromophenol	71		77		10-136
4-Terphenyl-d14	76		81		18-120

PESTICIDES

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15**SAMPLE RESULTS**

Lab ID: L1511165-05
Client ID: TP-16
Sample Location: VILLAGE OF BLOOMING GROVE, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/28/15 04:04
Analyst: GP
Percent Solids: 85%

Date Collected: 05/20/15 12:20
Date Received: 05/21/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/26/15 10:13
Cleanup Method: EPA 3620B
Cleanup Date: 05/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.763	0.341	1	A
Alpha-BHC	ND		ug/kg	0.763	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.915	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.645	1	A
Heptachlor epoxide	25.0		ug/kg	3.43	1.03	1	B
Endrin	ND		ug/kg	0.763	0.313	1	A
Endrin ketone	ND		ug/kg	1.83	0.471	1	A
Dieldrin	ND		ug/kg	1.14	0.572	1	A
4,4'-DDE	9.60		ug/kg	1.83	0.423	1	A
4,4'-DDD	ND		ug/kg	1.83	0.653	1	A
4,4'-DDT	12.2		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.612	1	A
Endosulfan sulfate	ND		ug/kg	0.763	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.61	1	A
cis-Chlordane	76.0	PI	ug/kg	2.29	0.638	1	B
trans-Chlordane	44.9		ug/kg	2.29	0.604	1	A
Chlordane	331		ug/kg	14.9	6.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/28/15 05:56
 Analyst: GP

Extraction Method: EPA 3546
 Extraction Date: 05/26/15 10:13
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG787987-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.658	0.294	A
Alpha-BHC	ND		ug/kg	0.658	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.599	A
Heptachlor	ND		ug/kg	0.790	0.354	A
Aldrin	ND		ug/kg	1.58	0.556	A
Heptachlor epoxide	ND		ug/kg	2.96	0.889	A
Endrin	ND		ug/kg	0.658	0.270	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.987	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.373	A
Endosulfan II	ND		ug/kg	1.58	0.528	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.922	A
Toxaphene	ND		ug/kg	29.6	8.29	A
cis-Chlordane	ND		ug/kg	1.97	0.550	A
trans-Chlordane	ND		ug/kg	1.97	0.521	A
Chlordane	ND		ug/kg	12.8	5.23	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG787987-2 WG787987-3									
Delta-BHC	42		50		30-150	17		30	A
Lindane	52		60		30-150	14		30	A
Alpha-BHC	55		63		30-150	14		30	A
Beta-BHC	55		60		30-150	9		30	A
Heptachlor	53		60		30-150	12		30	A
Aldrin	55		64		30-150	15		30	A
Heptachlor epoxide	49		57		30-150	15		30	A
Endrin	61		72		30-150	17		30	A
Endrin ketone	47		54		30-150	14		30	A
Dieldrin	60		69		30-150	14		30	A
4,4'-DDE	56		65		30-150	15		30	A
4,4'-DDD	58		68		30-150	16		30	A
4,4'-DDT	63		74		30-150	16		30	A
Endosulfan I	50		58		30-150	15		30	A
Endosulfan II	52		61		30-150	16		30	A
Endosulfan sulfate	48		57		30-150	17		30	A
Methoxychlor	58		66		30-150	13		30	A
cis-Chlordane	51		59		30-150	15		30	A
trans-Chlordane	54		62		30-150	14		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG787987-2 WG787987-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		54		30-150	B
Decachlorobiphenyl	56		65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	49		57		30-150	A
Decachlorobiphenyl	52		55		30-150	A

METALS

Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-03

Date Collected: 05/20/15 10:25

Client ID: TP-8

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	11000		mg/kg	9.4	1.9	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Antimony, Total	1.1	J	mg/kg	4.7	0.75	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Arsenic, Total	4.7		mg/kg	0.94	0.19	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Barium, Total	38		mg/kg	0.94	0.28	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Beryllium, Total	0.30	J	mg/kg	0.47	0.09	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.94	0.07	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Calcium, Total	13000		mg/kg	9.4	2.8	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Chromium, Total	19		mg/kg	0.94	0.19	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Cobalt, Total	8.3		mg/kg	1.9	0.47	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Copper, Total	65		mg/kg	0.94	0.19	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Iron, Total	26000		mg/kg	4.7	1.9	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Lead, Total	31		mg/kg	4.7	0.19	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Magnesium, Total	3700		mg/kg	9.4	0.94	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Manganese, Total	620		mg/kg	0.94	0.19	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Mercury, Total	0.07	J	mg/kg	0.08	0.02	1	05/27/15 03:41	05/27/15 10:23	EPA 7471B	1,7471B	DB
Nickel, Total	20		mg/kg	2.3	0.37	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Potassium, Total	440		mg/kg	230	37.	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.9	0.28	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.94	0.19	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Sodium, Total	41	J	mg/kg	190	28.	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.9	0.37	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Vanadium, Total	11		mg/kg	0.94	0.09	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH
Zinc, Total	160		mg/kg	4.7	0.66	2	05/22/15 07:06	05/22/15 14:31	EPA 3050B	1,6010C	JH



Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

SAMPLE RESULTS

Lab ID: L1511165-04

Date Collected: 05/20/15 11:30

Client ID: TP-11

Date Received: 05/21/15

Sample Location: VILLAGE OF BLOOMING GROVE, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	8.4	1.7	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.2	0.67	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Arsenic, Total	2.1		mg/kg	0.84	0.17	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Barium, Total	27		mg/kg	0.84	0.25	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Beryllium, Total	0.37	J	mg/kg	0.42	0.08	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.84	0.06	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Calcium, Total	2800		mg/kg	8.4	2.5	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Chromium, Total	15		mg/kg	0.84	0.17	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Cobalt, Total	8.9		mg/kg	1.7	0.42	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Copper, Total	24		mg/kg	0.84	0.17	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Iron, Total	24000		mg/kg	4.2	1.7	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Lead, Total	11		mg/kg	4.2	0.17	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Magnesium, Total	5200		mg/kg	8.4	0.84	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Manganese, Total	690		mg/kg	0.84	0.17	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	05/27/15 03:41	05/27/15 10:25	EPA 7471B	1,7471B	DB
Nickel, Total	20		mg/kg	2.1	0.34	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Potassium, Total	410		mg/kg	210	34.	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.25	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.84	0.17	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Sodium, Total	ND		mg/kg	170	25.	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Vanadium, Total	14		mg/kg	0.84	0.08	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT
Zinc, Total	66		mg/kg	4.2	0.59	2	05/23/15 10:34	05/26/15 14:29	EPA 3050B	1,6010C	TT



Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 03 Batch: WG787287-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Iron, Total	1.0	J	mg/kg	2.0	0.80	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	05/22/15 07:06	05/22/15 10:21	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04 Batch: WG787664-1										
Aluminum, Total	1.9	J	mg/kg	4.0	0.80	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Antimony, Total	ND		mg/kg	2.0	0.32	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Arsenic, Total	ND		mg/kg	0.40	0.08	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Barium, Total	ND		mg/kg	0.40	0.12	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT



Project Name: 505 CLOVE ROAD

Lab Number: L1511165

Project Number: 505 CLOVE

Report Date: 05/29/15

Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	mg/kg	0.20	0.04	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Cadmium, Total	ND	mg/kg	0.40	0.03	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Calcium, Total	ND	mg/kg	4.0	1.2	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Chromium, Total	ND	mg/kg	0.40	0.08	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Cobalt, Total	ND	mg/kg	0.80	0.20	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Copper, Total	ND	mg/kg	0.40	0.08	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Iron, Total	ND	mg/kg	2.0	0.80	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Lead, Total	ND	mg/kg	2.0	0.08	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Magnesium, Total	ND	mg/kg	4.0	0.40	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Manganese, Total	ND	mg/kg	0.40	0.08	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Nickel, Total	ND	mg/kg	1.0	0.16	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Potassium, Total	ND	mg/kg	100	16.	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Selenium, Total	ND	mg/kg	0.80	0.12	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Silver, Total	ND	mg/kg	0.40	0.08	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Sodium, Total	ND	mg/kg	80	12.	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Thallium, Total	ND	mg/kg	0.80	0.16	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Vanadium, Total	ND	mg/kg	0.40	0.04	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT
Zinc, Total	ND	mg/kg	2.0	0.28	1	05/23/15 10:34	05/26/15 13:30	1,6010C	TT

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 03-04 Batch: WG788216-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	05/27/15 03:41	05/27/15 10:15	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG787287-2 SRM Lot Number: D088-540								
Aluminum, Total	87		-		48-151	-		
Antimony, Total	187		-		1-208	-		
Arsenic, Total	96		-		79-121	-		
Barium, Total	94		-		83-117	-		
Beryllium, Total	93		-		83-117	-		
Cadmium, Total	87		-		83-117	-		
Calcium, Total	82		-		81-119	-		
Chromium, Total	91		-		80-120	-		
Cobalt, Total	86		-		84-115	-		
Copper, Total	90		-		81-118	-		
Iron, Total	103		-		45-155	-		
Lead, Total	98		-		81-117	-		
Magnesium, Total	81		-		76-124	-		
Manganese, Total	88		-		81-118	-		
Nickel, Total	85		-		83-117	-		
Potassium, Total	93		-		71-129	-		
Selenium, Total	97		-		78-122	-		
Silver, Total	96		-		75-124	-		
Sodium, Total	94		-		72-127	-		
Thallium, Total	85		-		80-120	-		
Vanadium, Total	93		-		78-122	-		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG787287-2 SRM Lot Number: D088-540					
Zinc, Total	88	-	82-118	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG787664-2 SRM Lot Number: D088-540					
Aluminum, Total	86	-	48-151	-	
Antimony, Total	187	-	1-208	-	
Arsenic, Total	105	-	79-121	-	
Barium, Total	94	-	83-117	-	
Beryllium, Total	99	-	83-117	-	
Cadmium, Total	96	-	83-117	-	
Calcium, Total	99	-	81-119	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	92	-	84-115	-	
Copper, Total	98	-	81-118	-	
Iron, Total	110	-	45-155	-	
Lead, Total	98	-	81-117	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	103	-	81-118	-	
Nickel, Total	96	-	83-117	-	
Potassium, Total	96	-	71-129	-	
Selenium, Total	102	-	78-122	-	
Silver, Total	100	-	75-124	-	
Sodium, Total	97	-	72-127	-	
Thallium, Total	100	-	80-120	-	
Vanadium, Total	97	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG787664-2 SRM Lot Number: D088-540					
Zinc, Total	97	-	82-118	-	
Total Metals - Westborough Lab Associated sample(s): 03-04 Batch: WG788216-2 SRM Lot Number: D088-540					
Mercury, Total	118	-	72-128	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG787287-4 QC Sample: L1511207-01 Client ID: MS Sample												
Aluminum, Total	6100	190	5800	0	Q	-	-		75-125	-		20
Antimony, Total	ND	47.6	41	86		-	-		75-125	-		20
Arsenic, Total	1.9	11.4	12	88		-	-		75-125	-		20
Barium, Total	38.	190	200	85		-	-		75-125	-		20
Beryllium, Total	0.27J	4.76	4.5	94		-	-		75-125	-		20
Cadmium, Total	ND	4.86	3.9	80		-	-		75-125	-		20
Calcium, Total	1500	953	2300	84		-	-		75-125	-		20
Chromium, Total	11.	19	27	84		-	-		75-125	-		20
Cobalt, Total	5.1	47.6	45	84		-	-		75-125	-		20
Copper, Total	12.	23.8	32	84		-	-		75-125	-		20
Iron, Total	19000	95.3	19000	0	Q	-	-		75-125	-		20
Lead, Total	ND	48.6	56	115		-	-		75-125	-		20
Magnesium, Total	2400	953	3000	63	Q	-	-		75-125	-		20
Manganese, Total	260	47.6	310	105		-	-		75-125	-		20
Nickel, Total	12.	47.6	50	80		-	-		75-125	-		20
Potassium, Total	660	953	1600	99		-	-		75-125	-		20
Selenium, Total	ND	11.4	9.9	86		-	-		75-125	-		20
Silver, Total	ND	28.6	27	94		-	-		75-125	-		20
Sodium, Total	70.J	953	970	102		-	-		75-125	-		20
Thallium, Total	ND	11.4	8.2	72	Q	-	-		75-125	-		20
Vanadium, Total	13.	47.6	55	88		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG787287-4 QC Sample: L1511207-01 Client ID: MS Sample									
Zinc, Total	32.	47.6	70	80	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 505 CLOVE ROAD
Project Number: 505 CLOVE

Lab Number: L1511165
Report Date: 05/29/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG787664-4 QC Sample: L1511401-21 Client ID: MS Sample									
Aluminum, Total	3900	179	5200	724	Q	-	75-125	-	20
Antimony, Total	130	44.8	210	178	Q	-	75-125	-	20
Arsenic, Total	140	10.8	180	372	Q	-	75-125	-	20
Barium, Total	160	179	370	117		-	75-125	-	20
Beryllium, Total	2.2	4.48	11	196	Q	-	75-125	-	20
Cadmium, Total	9.2	4.58	13	83		-	75-125	-	20
Calcium, Total	2400	897	3800	156	Q	-	75-125	-	20
Chromium, Total	34.	17.9	56	123		-	75-125	-	20
Cobalt, Total	32.	44.8	82	111		-	75-125	-	20
Copper, Total	3700	22.4	4200	2230	Q	-	75-125	-	20
Iron, Total	39000	89.7	49000	11100	Q	-	75-125	-	20
Lead, Total	2600	45.8	3000	874	Q	-	75-125	-	20
Magnesium, Total	1100	897	2300	134	Q	-	75-125	-	20
Manganese, Total	220	44.8	280	134	Q	-	75-125	-	20
Nickel, Total	97.	44.8	170	163	Q	-	75-125	-	20
Potassium, Total	390	897	1500	124		-	75-125	-	20
Selenium, Total	31.	10.8	52	195	Q	-	75-125	-	20
Silver, Total	29.	26.9	73	163	Q	-	75-125	-	20
Sodium, Total	300	897	1400	123		-	75-125	-	20
Thallium, Total	ND	10.8	9.3	86		-	75-125	-	20
Vanadium, Total	21.	44.8	62	91		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG787664-4 QC Sample: L1511401-21 Client ID: MS Sample									
Zinc, Total	2100	44.8	3300	2680	Q	-	-	75-125	- 20
Total Metals - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG788216-4 QC Sample: L1511450-01 Client ID: MS Sample									
Mercury, Total	0.13	0.147	0.40	183	Q	-	-	80-120	- 20

Lab Duplicate Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG787287-3 QC Sample: L1511207-01 Client ID: DUP Sample						
Aluminum, Total	6100	6000	mg/kg	2		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.9	1.9	mg/kg	0		20
Barium, Total	38.	38	mg/kg	0		20
Beryllium, Total	0.27J	0.26J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	1500	1500	mg/kg	0		20
Chromium, Total	11.	12	mg/kg	9		20
Cobalt, Total	5.1	5.1	mg/kg	0		20
Copper, Total	12.	12	mg/kg	0		20
Iron, Total	19000	18000	mg/kg	5		20
Magnesium, Total	2400	2300	mg/kg	4		20
Manganese, Total	260	250	mg/kg	4		20
Nickel, Total	12.	12	mg/kg	0		20
Potassium, Total	660	720	mg/kg	9		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	70.J	83J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG787287-3 QC Sample: L1511207-01 Client ID: DUP Sample					
Vanadium, Total	13.	14	mg/kg	7	20
Zinc, Total	32.	30	mg/kg	6	20
Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG787287-3 QC Sample: L1511207-01 Client ID: DUP Sample					
Lead, Total	ND	ND	mg/kg	NC	20
Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG787664-3 QC Sample: L1511401-21 Client ID: DUP Sample					
Antimony, Total	130	130	mg/kg	0	20
Arsenic, Total	140	160	mg/kg	13	20
Lead, Total	2600	3000	mg/kg	14	20
Total Metals - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG788216-3 QC Sample: L1511450-01 Client ID: DUP Sample					
Mercury, Total	0.13	0.16	mg/kg	21	Q 20

INORGANICS & MISCELLANEOUS

Project Name: 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-01**Client ID:** TP-4**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Matrix:** Soil**Date Collected:** 05/20/15 08:56**Date Received:** 05/21/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	05/22/15 14:18	30,2540G	AB



Project Name: 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-02**Client ID:** TP-6**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Matrix:** Soil**Date Collected:** 05/20/15 09:35**Date Received:** 05/21/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	05/22/15 14:18	30,2540G	AB



Project Name: 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-03**Client ID:** TP-8**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Matrix:** Soil**Date Collected:** 05/20/15 10:25**Date Received:** 05/21/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	05/22/15 14:18	30,2540G	AB



Project Name: 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-04**Client ID:** TP-11**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Matrix:** Soil**Date Collected:** 05/20/15 11:30**Date Received:** 05/21/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	05/22/15 14:18	30,2540G	AB



Project Name: 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Number:** L1511165**Report Date:** 05/29/15**SAMPLE RESULTS****Lab ID:** L1511165-05**Client ID:** TP-16**Sample Location:** VILLAGE OF BLOOMING GROVE, NY**Matrix:** Soil**Date Collected:** 05/20/15 12:20**Date Received:** 05/21/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	05/22/15 14:18	30,2540G	AB



Project Name: 505 CLOVE ROAD**Project Number:** 505 CLOVE**Lab Duplicate Analysis**
Batch Quality Control**Lab Number:** L1511165**Report Date:** 05/29/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG787465-1 QC Sample: L1511165-01 Client ID: TP-4						
Solids, Total	86.8	87.1	%	0		20

Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511165-01A	Vial Large Septa unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1511165-01B	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8270(14),TS(7)
L1511165-02A	Vial Large Septa unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1511165-02B	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8270(14),TS(7)
L1511165-03A	Vial Large Septa unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1511165-03B	Vial Large Septa unpreserved	A	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1511165-03C	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1511165-03D	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	-
L1511165-03E	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	-
L1511165-04A	Vial Large Septa unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 505 CLOVE ROAD

Project Number: 505 CLOVE

Lab Number: L1511165

Report Date: 05/29/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511165-04B	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1511165-04C	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1511165-05A	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	TS(7),NYTCL-8081(14)

*Values in parentheses indicate holding time in days

Project Name: 505 CLOVE ROAD**Lab Number:** L1511165**Project Number:** 505 CLOVE**Report Date:** 05/29/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

Report Format: DU Report with 'J' Qualifiers



Project Name: 505 CLOVE ROAD
Project Number: 505 CLOVE

Lab Number: L1511165
Report Date: 05/29/15

Data Qualifiers

- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 505 CLOVE ROAD
Project Number: 505 CLOVE

Lab Number: L1511165
Report Date: 05/29/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F, EPA 353.2:** Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

APPENDIX B

NYSDEC PBS Certificate



PBS Number
3-601349

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE
625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 3 NYSDEC - PBS Unit
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3022

TANK NUMBER	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)
001	Aboveground - in contact with soil	01/01/1998	Steel/Carbon Steel/Iron	#2 fuel oil (on-site consumption)	5,000

* Aboveground tanks require monthly visual inspections and may need documented internal inspections as described in 6 NYCRR Section 613-4.3

* Tank To Be Renewed

FACILITY NAME AND ADDRESS:
LAKE ANNE REALTY CORP. A/K/A
505 CLOVE ROAD
MONROE, NY 10950

FACILITY (PROPERTY) OWNER:
KEEN EQUITIES LLC C/O YC RUBIN
601 LEHIGH AVENUE
LEHIGH, NJ 07083

Class B (Daily On-Site) Op: CHARLEY BAILEY

Class A (Primary) Operator:

Emergency Contact Name: SIMON GELB

Emergency Contact Phone Number: (845) 774-8000

Facility Phone Number
(949) 769-9478
MAILING CORRESPONDENCE:

SIMON GELB
CPC LLC
PO BOX 2020
MONROE, NY 10950

ISSUED BY: Acting Commissioner
Basil Seggos

PBS NUMBER: 3-601349

DATE ISSUED: 06/07/2016

EXPIRATION DATE: 07/07/2019

FEE PAID: \$4,500.00

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

This registration certificate must be kept current and conspicuously posted at this facility at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.

Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative Date

Printed Name and Title of Facility Owner/Authorized Representative

APPENDIX C

Disposal Manifests

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone (631) 568-2000	4. Waste Tracking Number 0603141		
	5. Generator's Name and Mailing Address CPC LLC PO Box 2020 Monroe, NY 10949 USA			Generator's Site Address (if different than mailing address) Clove Road & Lake Anne Drive Monroe, NY 10950 USA				
	Generator's Phone:							
	6. Transporter 1 Company Name AMERICAN ENVIRONMENTAL ASSESSMENT CORP.			U.S. EPA ID Number NYR000044412				
	7. Transporter 2 Company Name			U.S. EPA ID Number				
	8. Designated Facility Name and Site Address Clean Water of New York 3249 Richmond Terrace Staten Island, NY 10303 USA 718-981-4833			U.S. EPA ID Number				
	Facility's Phone:							
	9. Waste Shipping Name and Description Fuel Oil Soaked Debris W/ WATER NON RCRA, NON DOT REGULATED			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
				No. Type				
				3 DR 165 GAL				
TRANSPORTER	13. Special Handling Instructions and Additional Information Approval # T0005-012 * 1213							
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
	Generator's/Offoror's Printed/Typed Name X Mohamed Ahmed			Signature X Mohamed Ahmed		Month 6	Day 1	Year 16
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
	16. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Bob Brabant			Signature Bob Brabant		Month 6	Day 1	Year 16
	Transporter 2 Printed/Typed Name			Signature		Month	Day	Year
	17. Discrepancy							
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	DESIGNATED FACILITY	17b. Alternate Facility (or Generator)			Manifest Reference Number:		U.S. EPA ID Number	
Facility's Phone:								
17c. Signature of Alternate Facility (or Generator)					Month	Day	Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
Printed/Typed Name M. J. J. J.			Signature M. J. J. J.		Month 6	Day 14	Year 16	

APPENDIX D

Photo Log Documenting Tank Removal Activities



One 4,900-gallon #2 Fuel Oil Aboveground Tank



A Large Opening on Tank Side for Interior Cleaning



Cleaning of Tank Interior



Tank After Cleaning and Removal



Tank Loaded on Dumpster for Off-site Disposal



Soil Underneath the Tank

APPENDIX E

Receipts from the Disposal Facility and Scrap Yard

SCRAP
IRON METAL

10-40 YARD
CONTAINERS

NY DISM 7046331

MIDDLETOWN AUTO WRECKERS
JUNK CARS & TRUCKS WANTED
ROLL OFF CONTAINERS SERVICE

JOHN CARBONE
1-845-343-8011
1-845-343-0682

83-85 INDUSTRIAL PLACE EXT.
MIDDLETOWN, NY 10940

09:19 am 07/23/16
48740 lb

Customer Charlie Bailey 7-23-16

Destination _____

09:23 am 07/23/16
35260 lb

Loading Address 505 Clove Rd

City South Blooming Grove State Ny Zip 10950

Product Clean Metal 30 yd

Remarks _____

Driver MC5 Ron

Weightmaster Ux

13,480

(6.74T)

337.00
100.00 TRUCKER
227.00

SYSTEM GENERATED
Ticket# 174160
Operator GAMAR01

TAYLOR-MONTGOMERY, LLC
350 NEELYTOWN ROAD
MONTGOMERY NY 12549
(845) 457-4021

Date: 7/15/16
In/Tm: 10:52 AM
Out/Tm: 10:58 AM

Billing Cust# 01-0000187
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Service Cust# -00000000
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Vehicle ID: CB TRUCKING Trailer ID: 187 Origin: ORA
Comment: CK 6823

Material	Gross Wgt	Tare Wgt	Net Wgt	Qty	Amount
C&D	34100 LB	28040 LB	6060 LB	3.03TN	257.55

Total 257.55

Driver Signature _____

Weighmaster Signature _____

Weighmaster - GINA M AMARO
Weighmaster License# - 602836

SYSTEM GENERATED
Ticket# 173862
Operator GAMAR01

TAYLOR-MONTGOMERY, LLC
350 NEELYTOWN ROAD
MONTGOMERY NY 12549
(845) 457-4021

Date: 7/12/16
In/Tm: 10:29 AM
Out/Tm: 10:37 AM

Billing Cust# 01-0000187
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Service Cust# -0000000
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Vehicle ID: CB TRUCKING
Comment: CK 6823

Trailer ID: 187 Origin: ORA

Material	Gross Wgt	Tare Wgt	Net Wgt	Qty	Amount
RESIDUE	39920 LB	28060 LB	11860 LB	5.93TN	741.25

Total - 741.25

Driver Signature _____

Weighmaster Signature _____

Weighmaster - GINA M AMARO

Weighmaster License# - 602836

SYSTEM GENERATED
Ticket# 173896
Operator GAMAR01

TAYLOR-MONTGOMERY, LLC
350 NEELYTOWN ROAD
MONTGOMERY NY 12549
(845) 457-4021

Date: 7/12/16
In/Tm: 12:58 PM
Out/Tm: 1:05 PM

Billing Cust# 01-0000187
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Service Cust# -0000000
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Vehicle ID: CB TRUCKING
Comment: CK 6823

Trailer ID: 187

Origin: ORA

Material	Gross Wgt	Tare Wgt	Net Wgt	Qty	Amount
C&D	35760 LB	28200 LB	7560 LB	3.78 TN	321.30

Total - 321.30

Driver Signature _____

Weighmaster Signature _____

Weighmaster - GINA M AMARO

Weighmaster License# - 602836

REPRINTED

Ticket# 173926

Operator GAMAR01

TAYLOR-MONTGOMERY, LLC
350 NEELYTOWN ROAD
MONTGOMERY NY 12549
(845) 457-4021

Date: 7/12/16
In/Tm: 3:31 PM
Out/Tm: 3:40 PM

Billing Cust# 01-0000187
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Service Cust# -0000000
CB TRUCKING & EXCAVATING
HARRIMAN HEIGHTS RD
HARRIMAN NY 10926

Vehicle ID: CB TRUCKING
Comment: CK 6823

Trailer ID: 187 Origin: ORA

Material	Gross Wgt	Tare Wgt	Net Wgt	Qty	Amount
C&D	33520 LB	28140 LB	5380 LB	2.69 TN	228.65

Total- 228.65

Driver Signature _____

Weighmaster Signature _____

Weighmaster - GINA M AMARO
Weighmaster License# - 602836

APPENDIX F

Fill Material Analytical Results



ANALYTICAL REPORT

Lab Number:	L1621764
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Mohamed Ahmed
Phone:	(646) 606-2332
Project Name:	505 CLOVE RD.
Project Number:	505 CLOVE
Report Date:	07/22/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 505 CLOVE RD.
Project Number: 505 CLOVE

Lab Number: L1621764
Report Date: 07/22/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1621764-01	SC1	SOIL	MONROE, NEW YORK	07/13/16 13:00	07/14/16

Project Name: 505 CLOVE RD.
Project Number: 505 CLOVE

Lab Number: L1621764
Report Date: 07/22/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 505 CLOVE RD.
Project Number: 505 CLOVE

Lab Number: L1621764
Report Date: 07/22/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

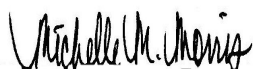
Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Metals

L1621764-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/22/16

ORGANICS

VOLATILES

Project Name: 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16**SAMPLE RESULTS**

Lab ID: L1621764-01
Client ID: SC1
Sample Location: MONROE, NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/20/16 17:13
Analyst: BN
Percent Solids: 92%

Date Collected: 07/13/16 13:00
Date Received: 07/14/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.7	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.08	1
Chloroform	ND		ug/kg	1.4	0.36	1
Carbon tetrachloride	ND		ug/kg	0.97	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.97	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.97	0.14	1
Chlorobenzene	ND		ug/kg	0.97	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	0.11	1
Bromodichloromethane	ND		ug/kg	0.97	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.97	0.11	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.14	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	0.10	1
Benzene	ND		ug/kg	0.97	0.11	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.97	0.12	1
Chloromethane	ND		ug/kg	4.8	0.28	1
Bromomethane	ND		ug/kg	1.9	0.33	1
Vinyl chloride	ND		ug/kg	1.9	0.11	1
Chloroethane	ND		ug/kg	1.9	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.97	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.15	1

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621764-01

Date Collected: 07/13/16 13:00

Client ID: SC1

Date Received: 07/14/16

Sample Location: MONROE, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.08	1
p/m-Xylene	ND		ug/kg	1.9	0.19	1
o-Xylene	ND		ug/kg	1.9	0.17	1
Xylenes, Total	ND		ug/kg	1.9	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.14	1
Dibromomethane	ND		ug/kg	9.7	0.16	1
Styrene	ND		ug/kg	1.9	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.18	1
Acetone	ND		ug/kg	9.7	1.0	1
Carbon disulfide	ND		ug/kg	9.7	1.1	1
2-Butanone	ND		ug/kg	9.7	0.26	1
Vinyl acetate	ND		ug/kg	9.7	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	0.16	1
2-Hexanone	ND		ug/kg	9.7	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.27	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.22	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.97	0.31	1
Bromobenzene	ND		ug/kg	4.8	0.20	1
n-Butylbenzene	ND		ug/kg	0.97	0.11	1
sec-Butylbenzene	ND		ug/kg	0.97	0.12	1
tert-Butylbenzene	ND		ug/kg	4.8	0.13	1
o-Chlorotoluene	ND		ug/kg	4.8	0.15	1
p-Chlorotoluene	ND		ug/kg	4.8	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.22	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.12	1
Naphthalene	ND		ug/kg	4.8	0.13	1
Acrylonitrile	ND		ug/kg	9.7	0.50	1
n-Propylbenzene	ND		ug/kg	0.97	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	0.14	1

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621764-01

Date Collected: 07/13/16 13:00

Client ID: SC1

Date Received: 07/14/16

Sample Location: MONROE, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.8	0.14	1
1,4-Dioxane	ND		ug/kg	97	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	0.15	1
p-Ethyltoluene	ND		ug/kg	3.9	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.13	1
Ethyl ether	ND		ug/kg	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/20/16 08:23
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG915659-5					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/20/16 08:23
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG915659-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/20/16 08:23
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG915659-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	100	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG915659-3 WG915659-4								
Methylene chloride	105		104		70-130	1		30
1,1-Dichloroethane	108		105		70-130	3		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	111		107		70-130	4		30
1,2-Dichloropropane	105		104		70-130	1		30
Dibromochloromethane	104		107		70-130	3		30
2-Chloroethylvinyl ether	100		103		70-130	3		30
1,1,2-Trichloroethane	107		111		70-130	4		30
Tetrachloroethene	122		117		70-130	4		30
Chlorobenzene	110		108		70-130	2		30
Trichlorofluoromethane	96		88		70-139	9		30
1,2-Dichloroethane	93		94		70-130	1		30
1,1,1-Trichloroethane	108		104		70-130	4		30
Bromodichloromethane	98		99		70-130	1		30
trans-1,3-Dichloropropene	107		108		70-130	1		30
cis-1,3-Dichloropropene	101		103		70-130	2		30
1,1-Dichloropropene	111		105		70-130	6		30
Bromoform	108		110		70-130	2		30
1,1,2,2-Tetrachloroethane	108		110		70-130	2		30
Benzene	108		105		70-130	3		30
Toluene	113		110		70-130	3		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG915659-3 WG915659-4								
Ethylbenzene	109		106		70-130	3		30
Chloromethane	120		115		52-130	4		30
Bromomethane	83		79		57-147	5		30
Vinyl chloride	104		96		67-130	8		30
Chloroethane	77		73		50-151	5		30
1,1-Dichloroethene	116		109		65-135	6		30
trans-1,2-Dichloroethene	111		106		70-130	5		30
Trichloroethene	106		105		70-130	1		30
1,2-Dichlorobenzene	115		114		70-130	1		30
1,3-Dichlorobenzene	116		114		70-130	2		30
1,4-Dichlorobenzene	114		113		70-130	1		30
Methyl tert butyl ether	100		100		66-130	0		30
p/m-Xylene	111		108		70-130	3		30
o-Xylene	109		107		70-130	2		30
cis-1,2-Dichloroethene	106		104		70-130	2		30
Dibromomethane	96		98		70-130	2		30
Styrene	105		104		70-130	1		30
Dichlorodifluoromethane	115		105		30-146	9		30
Acetone	103		92		54-140	11		30
Carbon disulfide	99		97		59-130	2		30
2-Butanone	105		101		70-130	4		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG915659-3 WG915659-4								
Vinyl acetate	102		105		70-130	3		30
4-Methyl-2-pentanone	104		104		70-130	0		30
1,2,3-Trichloropropane	102		104		68-130	2		30
2-Hexanone	103		104		70-130	1		30
Bromochloromethane	104		105		70-130	1		30
2,2-Dichloropropane	111		106		70-130	5		30
1,2-Dibromoethane	108		108		70-130	0		30
1,3-Dichloropropane	107		108		69-130	1		30
1,1,1,2-Tetrachloroethane	110		111		70-130	1		30
Bromobenzene	116		116		70-130	0		30
n-Butylbenzene	117		111		70-130	5		30
sec-Butylbenzene	118		111		70-130	6		30
tert-Butylbenzene	119		113		70-130	5		30
o-Chlorotoluene	114		110		70-130	4		30
p-Chlorotoluene	112		109		70-130	3		30
1,2-Dibromo-3-chloropropane	101		107		68-130	6		30
Hexachlorobutadiene	128		126		67-130	2		30
Isopropylbenzene	117		111		70-130	5		30
p-Isopropyltoluene	118		113		70-130	4		30
Naphthalene	112		114		70-130	2		30
Acrylonitrile	111		113		70-130	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG915659-3 WG915659-4								
Isopropyl Ether	106		107		66-130	1		30
tert-Butyl Alcohol	105		111		70-130	6		30
n-Propylbenzene	117		112		70-130	4		30
1,2,3-Trichlorobenzene	120		122		70-130	2		30
1,2,4-Trichlorobenzene	124		126		70-130	2		30
1,3,5-Trimethylbenzene	115		110		70-130	4		30
1,2,4-Trimethylbenzene	114		110		70-130	4		30
Methyl Acetate	106		105		51-146	1		30
Ethyl Acetate	104		106		70-130	2		30
Acrolein	112		126		70-130	12		30
Cyclohexane	122		114		59-142	7		30
1,4-Dioxane	106		114		65-136	7		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		108		50-139	7		30
p-Diethylbenzene	119		114		70-130	4		30
p-Ethyltoluene	117		112		70-130	4		30
1,2,4,5-Tetramethylbenzene	114		112		70-130	2		30
Tetrahydrofuran	103		105		66-130	2		30
Ethyl ether	102		99		67-130	3		30
trans-1,4-Dichloro-2-butene	104		106		70-130	2		30
Methyl cyclohexane	116		111		70-130	4		30
Ethyl-Tert-Butyl-Ether	103		104		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG915659-3 WG915659-4								
Tertiary-Amyl Methyl Ether	98		99		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	94		95		70-130

SEMIVOLATILES

Project Name: 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16**SAMPLE RESULTS**

Lab ID: L1621764-01
Client ID: SC1
Sample Location: MONROE, NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/22/16 15:21
Analyst: HL
Percent Solids: 92%

Date Collected: 07/13/16 13:00
Date Received: 07/14/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/18/16 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621764-01

Date Collected: 07/13/16 13:00

Client ID: SC1

Date Received: 07/14/16

Sample Location: MONROE, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Project Name: 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16**SAMPLE RESULTS****Lab ID:** L1621764-01**Date Collected:** 07/13/16 13:00**Client ID:** SC1**Date Received:** 07/14/16**Sample Location:** MONROE, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	64		18-120

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 07/19/16 14:41
 Analyst: WPN

Extraction Method: EPA 3546
 Extraction Date: 07/18/16 04:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG914473-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 07/19/16 14:41
 Analyst: WPN

Extraction Method: EPA 3546
 Extraction Date: 07/18/16 04:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG914473-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 07/19/16 14:41
 Analyst: WPN

Extraction Method: EPA 3546
 Extraction Date: 07/18/16 04:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG914473-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	94		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG914473-2 WG914473-3								
Acenaphthene	91		80		31-137	13		50
Benzidine	55		73	Q	10-66	28		50
1,2,4-Trichlorobenzene	86		56		38-107	42		50
Hexachlorobenzene	84		82		40-140	2		50
Bis(2-chloroethyl)ether	74		41		40-140	57	Q	50
2-Chloronaphthalene	90		73		40-140	21		50
1,2-Dichlorobenzene	80		32	Q	40-140	86	Q	50
1,3-Dichlorobenzene	79		25	Q	40-140	104	Q	50
1,4-Dichlorobenzene	78		27	Q	28-104	97	Q	50
3,3'-Dichlorobenzidine	59		100		40-140	52	Q	50
2,4-Dinitrotoluene	101	Q	107	Q	28-89	6		50
2,6-Dinitrotoluene	95		91		40-140	4		50
Azobenzene	96		93		40-140	3		50
Fluoranthene	94		101		40-140	7		50
4-Chlorophenyl phenyl ether	90		86		40-140	5		50
4-Bromophenyl phenyl ether	92		90		40-140	2		50
Bis(2-chloroisopropyl)ether	71		41		40-140	54	Q	50
Bis(2-chloroethoxy)methane	84		64		40-117	27		50
Hexachlorobutadiene	86		48		40-140	57	Q	50
Hexachlorocyclopentadiene	84		58		40-140	37		50
Hexachloroethane	78		26	Q	40-140	100	Q	50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG914473-2 WG914473-3								
Isophorone	86		70		40-140	21		50
Naphthalene	82		55		40-140	39		50
Nitrobenzene	90		62		40-140	37		50
NitrosoDiPhenylAmine(NDPA)/DPA	93		93		36-157	0		50
n-Nitrosodi-n-propylamine	87		68		32-121	25		50
Bis(2-Ethylhexyl)phthalate	102		108		40-140	6		50
Butyl benzyl phthalate	108		121		40-140	11		50
Di-n-butylphthalate	99		104		40-140	5		50
Di-n-octylphthalate	108		115		40-140	6		50
Diethyl phthalate	96		96		40-140	0		50
Dimethyl phthalate	96		91		40-140	5		50
Benzo(a)anthracene	94		100		40-140	6		50
Benzo(a)pyrene	94		103		40-140	9		50
Benzo(b)fluoranthene	89		101		40-140	13		50
Benzo(k)fluoranthene	90		96		40-140	6		50
Chrysene	82		87		40-140	6		50
Acenaphthylene	95		83		40-140	13		50
Anthracene	93		95		40-140	2		50
Benzo(ghi)perylene	85		91		40-140	7		50
Fluorene	94		90		40-140	4		50
Phenanthrene	88		88		40-140	0		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG914473-2 WG914473-3								
Dibenzo(a,h)anthracene	92		99		40-140	7		50
Indeno(1,2,3-cd)Pyrene	100		106		40-140	6		50
Pyrene	91		98		35-142	7		50
Biphenyl	88		72		54-104	20		50
4-Chloroaniline	50		75		40-140	40		50
1-Methylnaphthalene	87		68		26-130	25		50
2-Nitroaniline	93		89		47-134	4		50
3-Nitroaniline	82		97		26-129	17		50
4-Nitroaniline	100		105		41-125	5		50
Dibenzofuran	92		83		40-140	10		50
2-Methylnaphthalene	91		69		40-140	28		50
1,2,4,5-Tetrachlorobenzene	87		66		40-117	27		50
Acetophenone	88		64		14-144	32		50
n-Nitrosodimethylamine	63		20	Q	22-100	104	Q	50
2,4,6-Trichlorophenol	106		93		30-130	13		50
P-Chloro-M-Cresol	97		88		26-103	10		50
2-Chlorophenol	83		53		25-102	44		50
2,4-Dichlorophenol	96		75		30-130	25		50
2,4-Dimethylphenol	93		76		30-130	20		50
2-Nitrophenol	95		69		30-130	32		50
4-Nitrophenol	109		116	Q	11-114	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG914473-2 WG914473-3								
2,4-Dinitrophenol	80		80		4-130	0		50
4,6-Dinitro-o-cresol	93		98		10-130	5		50
Pentachlorophenol	81		82		17-109	1		50
Phenol	89		63		26-90	34		50
2-Methylphenol	87		65		30-130.	29		50
3-Methylphenol/4-Methylphenol	88		69		30-130	24		50
2,4,5-Trichlorophenol	102		92		30-130	10		50
Benzoic Acid	38		29		10-110	27		50
Benzyl Alcohol	93		71		40-140	27		50
Carbazole	89		94		54-128	5		50
Parathion, ethyl	111		122		40-140	9		50
Atrazine	116		120		40-140	3		50
Benzaldehyde	62		3	Q	40-140	180	Q	50
Caprolactam	103		103		15-130	0		50
2,3,4,6-Tetrachlorophenol	98		96		40-140	2		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG914473-2 WG914473-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		42		25-120
Phenol-d6	85		59		10-120
Nitrobenzene-d5	87		57		23-120
2-Fluorobiphenyl	84		66		30-120
2,4,6-Tribromophenol	85		84		10-136
4-Terphenyl-d14	84		90		18-120

PCBS

Project Name: 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16**SAMPLE RESULTS**

Lab ID: L1621764-01
Client ID: SC1
Sample Location: MONROE, NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/16 18:56
Analyst: KEG
Percent Solids: 92%

Date Collected: 07/13/16 13:00
Date Received: 07/14/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/17/16 20:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/16
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	2.78	1	A
Aroclor 1221	ND		ug/kg	35.2	3.24	1	A
Aroclor 1232	ND		ug/kg	35.2	4.12	1	A
Aroclor 1242	ND		ug/kg	35.2	4.30	1	A
Aroclor 1248	ND		ug/kg	35.2	2.97	1	A
Aroclor 1254	ND		ug/kg	35.2	2.89	1	A
Aroclor 1260	ND		ug/kg	35.2	2.68	1	A
Aroclor 1262	ND		ug/kg	35.2	1.74	1	A
Aroclor 1268	ND		ug/kg	35.2	5.10	1	A
PCBs, Total	ND		ug/kg	35.2	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 07/18/16 17:49
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 07/17/16 20:49
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/18/16
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/18/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG914452-1						
Aroclor 1016	ND		ug/kg	31.5	2.49	A
Aroclor 1221	ND		ug/kg	31.5	2.90	A
Aroclor 1232	ND		ug/kg	31.5	3.69	A
Aroclor 1242	ND		ug/kg	31.5	3.85	A
Aroclor 1248	ND		ug/kg	31.5	2.66	A
Aroclor 1254	ND		ug/kg	31.5	2.59	A
Aroclor 1262	ND		ug/kg	31.5	1.56	A
Aroclor 1268	ND		ug/kg	31.5	4.56	A
PCBs, Total	ND		ug/kg	31.5	1.56	A
Aroclor 1260	ND		ug/kg	31.5	2.40	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 505 CLOVE RD.**Project Number:** 505 CLOVE**Lab Number:** L1621764**Report Date:** 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG914452-2 WG914452-3									
Aroclor 1016	81		84		40-140	4		50	A
Aroclor 1260	86		92		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		65		30-150	A
Decachlorobiphenyl	92		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		63		30-150	B
Decachlorobiphenyl	89		83		30-150	B

PESTICIDES

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621764-01
 Client ID: SC1
 Sample Location: MONROE, NEW YORK
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/19/16 13:29
 Analyst: EC
 Percent Solids: 92%

Date Collected: 07/13/16 13:00
 Date Received: 07/14/16
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 07/17/16 17:55
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/18/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.324	1	A
Lindane	ND		ug/kg	0.690	0.308	1	A
Alpha-BHC	ND		ug/kg	0.690	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.828	0.371	1	A
Aldrin	ND		ug/kg	1.66	0.583	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.931	1	A
Endrin	ND		ug/kg	0.690	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.724	1	A
Endrin ketone	ND		ug/kg	1.66	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	ND		ug/kg	1.66	0.383	1	A
4,4'-DDD	ND		ug/kg	1.66	0.590	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.391	1	A
Endosulfan II	ND		ug/kg	1.66	0.553	1	A
Endosulfan sulfate	ND		ug/kg	0.690	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.966	1	A
Toxaphene	ND		ug/kg	31.0	8.69	1	A
cis-Chlordane	ND		ug/kg	2.07	0.577	1	A
trans-Chlordane	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 07/19/16 10:52
 Analyst: EC

Extraction Method: EPA 3546
 Extraction Date: 07/17/16 17:55
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/18/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG914435-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.855	A
Endrin	ND		ug/kg	0.633	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 07/19/16 10:52
 Analyst: EC

Extraction Method: EPA 3546
 Extraction Date: 07/17/16 17:55
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/18/16

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG914435-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	72		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG914435-2 WG914435-3									
Delta-BHC	62		82		30-150	28		30	A
Lindane	58		77		30-150	28		30	A
Alpha-BHC	57		77		30-150	30		30	A
Beta-BHC	68		80		30-150	16		30	A
Heptachlor	62		79		30-150	24		30	A
Aldrin	56		72		30-150	25		30	A
Heptachlor epoxide	62		78		30-150	23		30	A
Endrin	57		74		30-150	26		30	A
Endrin aldehyde	37		59		30-150	46	Q	30	A
Endrin ketone	42		73		30-150	54	Q	30	A
Dieldrin	59		77		30-150	26		30	A
4,4'-DDE	52		67		30-150	25		30	A
4,4'-DDD	54		70		30-150	26		30	A
4,4'-DDT	62		78		30-150	23		30	A
Endosulfan I	57		74		30-150	26		30	A
Endosulfan II	61		84		30-150	32	Q	30	A
Endosulfan sulfate	37		66		30-150	56	Q	30	A
Methoxychlor	56		80		30-150	35	Q	30	A
cis-Chlordane	48		62		30-150	25		30	A
trans-Chlordane	45		56		30-150	22		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG914435-2 WG914435-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		92		30-150	B
Decachlorobiphenyl	76		105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		77		30-150	A
Decachlorobiphenyl	70		93		30-150	A

METALS

Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621764-01

Date Collected: 07/13/16 13:00

Client ID: SC1

Date Received: 07/14/16

Sample Location: MONROE, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10000		mg/kg	8.4	1.6	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.2	0.67	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Arsenic, Total	4.3		mg/kg	0.84	0.28	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Barium, Total	28		mg/kg	0.84	0.23	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Beryllium, Total	0.27	J	mg/kg	0.42	0.09	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.84	0.06	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Calcium, Total	410		mg/kg	8.4	2.3	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Chromium, Total	11		mg/kg	0.84	0.14	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Cobalt, Total	7.7		mg/kg	1.7	0.41	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Copper, Total	19		mg/kg	0.84	0.15	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Iron, Total	18000		mg/kg	4.2	1.3	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Lead, Total	8.8		mg/kg	4.2	0.18	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Magnesium, Total	3700		mg/kg	8.4	1.1	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Manganese, Total	520		mg/kg	0.84	0.20	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Mercury, Total	0.08		mg/kg	0.07	0.02	1	07/16/16 12:10	07/16/16 14:30	EPA 7471B	1,7471B	BV
Nickel, Total	15		mg/kg	2.1	0.34	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Potassium, Total	350		mg/kg	210	24.	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.7	0.23	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.84	0.17	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Sodium, Total	14	J	mg/kg	170	14.	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Thallium, Total	ND		mg/kg	1.7	0.27	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Vanadium, Total	14		mg/kg	0.84	0.08	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS
Zinc, Total	43		mg/kg	4.2	0.59	2	07/16/16 07:30	07/18/16 13:12	EPA 3050B	1,6010C	PS



Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG914181-1										
Aluminum, Total	ND		mg/kg	4.0	0.79	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Antimony, Total	ND		mg/kg	2.0	0.32	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	0.13	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Barium, Total	ND		mg/kg	0.40	0.11	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	0.04	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	0.03	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Calcium, Total	ND		mg/kg	4.0	1.1	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.07	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Cobalt, Total	ND		mg/kg	0.80	0.20	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Copper, Total	ND		mg/kg	0.40	0.07	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Iron, Total	ND		mg/kg	2.0	0.63	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Lead, Total	ND		mg/kg	2.0	0.09	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Magnesium, Total	ND		mg/kg	4.0	0.53	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Manganese, Total	ND		mg/kg	0.40	0.10	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Nickel, Total	ND		mg/kg	1.0	0.16	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Potassium, Total	ND		mg/kg	100	11.	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Selenium, Total	ND		mg/kg	0.80	0.11	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Silver, Total	ND		mg/kg	0.40	0.08	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Sodium, Total	ND		mg/kg	80	6.7	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Thallium, Total	ND		mg/kg	0.80	0.13	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	0.04	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS
Zinc, Total	ND		mg/kg	2.0	0.28	1	07/16/16 07:30	07/18/16 12:20	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG914195-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/16/16 12:10	07/16/16 14:10	1,7471B	BV



Project Name: 505 CLOVE RD.

Lab Number: L1621764

Project Number: 505 CLOVE

Report Date: 07/22/16

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG914181-2 SRM Lot Number: D089-540								
Aluminum, Total	68		-		52-147	-		
Antimony, Total	114		-		1-197	-		
Arsenic, Total	108		-		80-120	-		
Barium, Total	93		-		83-117	-		
Beryllium, Total	98		-		82-117	-		
Cadmium, Total	103		-		82-117	-		
Calcium, Total	92		-		81-119	-		
Chromium, Total	98		-		79-121	-		
Cobalt, Total	101		-		83-117	-		
Copper, Total	101		-		80-119	-		
Iron, Total	96		-		45-155	-		
Lead, Total	103		-		81-119	-		
Magnesium, Total	88		-		76-123	-		
Manganese, Total	93		-		81-119	-		
Nickel, Total	101		-		82-117	-		
Potassium, Total	85		-		71-128	-		
Selenium, Total	99		-		78-121	-		
Silver, Total	97		-		75-125	-		
Sodium, Total	92		-		71-128	-		
Thallium, Total	106		-		79-120	-		
Vanadium, Total	93		-		77-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG914181-2 SRM Lot Number: D089-540					
Zinc, Total	100	-	80-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG914195-2 SRM Lot Number: D089-540					
Mercury, Total	80	-	57-143	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 505 CLOVE RD.
Project Number: 505 CLOVE

Lab Number: L1621764
Report Date: 07/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG914181-4 QC Sample: L1621694-01 Client ID: MS Sample												
Aluminum, Total	3700	175	3800	57	Q	-	-		75-125	-		20
Antimony, Total	ND	43.6	34	78		-	-		75-125	-		20
Arsenic, Total	1.6	10.5	13	109		-	-		75-125	-		20
Barium, Total	23.	175	170	84		-	-		75-125	-		20
Beryllium, Total	0.124J	4.36	3.9	89		-	-		75-125	-		20
Cadmium, Total	ND	4.45	4.0	90		-	-		75-125	-		20
Calcium, Total	2100	873	3000	103		-	-		75-125	-		20
Chromium, Total	8.3	17.5	22	78		-	-		75-125	-		20
Cobalt, Total	3.1	43.6	39	82		-	-		75-125	-		20
Copper, Total	9.5	21.8	28	85		-	-		75-125	-		20
Iron, Total	9200	87.3	6900	0	Q	-	-		75-125	-		20
Lead, Total	20.	44.5	55	78		-	-		75-125	-		20
Magnesium, Total	1200	873	1800	69	Q	-	-		75-125	-		20
Manganese, Total	160	43.6	160	0	Q	-	-		75-125	-		20
Nickel, Total	16.	43.6	45	66	Q	-	-		75-125	-		20
Potassium, Total	440	873	1200	87		-	-		75-125	-		20
Selenium, Total	ND	10.5	9.6	92		-	-		75-125	-		20
Silver, Total	ND	26.2	23	88		-	-		75-125	-		20
Sodium, Total	66.J	873	900	103		-	-		75-125	-		20
Thallium, Total	ND	10.5	8.6	82		-	-		75-125	-		20
Vanadium, Total	8.8	43.6	47	87		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01			QC Batch ID: WG914181-4		QC Sample: L1621694-01		Client ID: MS Sample		
Zinc, Total	23.	43.6	58	80	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01			QC Batch ID: WG914195-4		QC Sample: L1621694-01		Client ID: MS Sample		
Mercury, Total	0.04J	0.14	0.20	143	Q	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG914181-3 QC Sample: L1621694-01 Client ID: DUP Sample						
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.6	1.8	mg/kg	12		20
Barium, Total	23.	25	mg/kg	8		20
Beryllium, Total	0.124J	0.132J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	8.3	8.6	mg/kg	4		20
Copper, Total	9.5	10	mg/kg	5		20
Lead, Total	20.	20	mg/kg	0		20
Manganese, Total	160	160	mg/kg	0		20
Nickel, Total	16.	14	mg/kg	13		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Zinc, Total	23.	26	mg/kg	12		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG914195-3 QC Sample: L1621694-01 Client ID: DUP Sample						
Mercury, Total	0.04J	0.03J	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 505 CLOVE RD.**Project Number:** 505 CLOVE**Lab Number:** L1621764**Report Date:** 07/22/16**SAMPLE RESULTS****Lab ID:** L1621764-01**Client ID:** SC1**Sample Location:** MONROE, NEW YORK**Matrix:** Soil**Date Collected:** 07/13/16 13:00**Date Received:** 07/14/16**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	07/15/16 10:05	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control**Project Name:** 505 CLOVE RD.**Project Number:** 505 CLOVE**Lab Number:** L1621764**Report Date:** 07/22/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG913918-1 QC Sample: L1621694-01 Client ID: DUP Sample						
Solids, Total	89.4	89.4	%	0		20

Project Name: 505 CLOVE RD.

Project Number: 505 CLOVE

Lab Number: L1621764

Report Date: 07/22/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1621764-01A	Vial Large Septa unpreserved (4o	A	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1621764-01A9	Vial MeOH preserved split	A	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1621764-01B	Glass 250ml/8oz unpreserved	A	N/A	4.4	Y	Absent	NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1621764-01C	Metals Only - Glass 60mL/2oz unp	A	N/A	4.4	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: 505 CLOVE RD.**Lab Number:** L1621764**Project Number:** 505 CLOVE**Report Date:** 07/22/16**Data Qualifiers**

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 505 CLOVE RD.
Project Number: 505 CLOVE

Lab Number: L1621764
Report Date: 07/22/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



Draft Environmental Impact Statement

NYSDEC Correspondence



P.O. Box 2020, Monroe New York 10949
Tel: (845) 774 · 8000 | cpcnynj@gmail.com

From: **Gelb Simon** <gelbsimon@gmail.com>
Date: Wed, Oct 5, 2016 at 3:40 PM
Subject: Clovewood - RCR (Village of South Blooming Grove, Orange County, NY)
To: edward.moore@dec.ny.gov
Cc: "Petronella, John W (DEC)" <john.petronella@dec.ny.gov>

Dear Mr. Moore;

On November 17, 2015, you responded to our submission (of 8/27/15) on the Clovewood Phase I & II and Remedial Action Work Plan. We are attaching hereto the Clovewood Remedial Closure Report. This should complete any required mitigation and please respond if further action is required.

The Final Scoping Document for the Clovewood Environmental Impact Statement adopted by the Village of South Blooming Grove provides: To evaluate the status of the Project Site, including NYSDEC's position on the condition of the Project Site, and whether or not the implemented remediation resulted in a No Further Action letter.

We assume the attached Remedial Closure Report adequately addresses all outstanding issues and with respect to previous uses of the site by the previous owners (as dumping and/or an unlicensed solid wastes management facility, etc.).

Sincerely,
Simon Gelb, CPC

 **9.30.16 RCR.pdf**

From: **Moore, Edward L (DEC)** <edward.moore@dec.ny.gov>
Date: Fri, Nov 4, 2016 at 2:42 PM
Subject: RE: Clovewood - RCR (Village of South Blooming Grove, Orange County, NY)
To: Gelb Simon <gelbsimon@gmail.com>
Cc: "Petronella, John W (DEC)" <john.petronella@dec.ny.gov>

Simon,

I concur with the conclusions shown on page 6 of the report.

4.0 CONCLUSIONS

Based on the implementation of the remedial actions described in Section 3, Tenen has the following conclusions:

- One 4,900-gallon out-of-service aboveground fuel oil tank was removed and disposed off-site in accordance with the NYSDEC PBS requirements and the tank was administratively closed in NYSDEC's records.
- One 550-gallon water tank was removed and disposed off-site.
- Solid waste at the Site was collected, removed and disposed off-site.
- Scrap metal, including discarded tanks, were removed and disposed off-site.
- Soil with elevated levels of SVOCs was capped with two-feet of material that meets the NYSDEC Unrestricted Use SCOs to prevent the direct contact.

This report will be filed as the Tank Closure Report for PBS 3-601349. No further action is required by DEC regulations.

Ed Moore
Environmental Engineer 3
DER Supervisor, Region 3
21 South Putt Corners Road
New Paltz, NY 12561
(845) 256-3137
