

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau B
625 Broadway, Albany, New York 12233-7016
Phone: (518) 402-9768 • FAX: (518) 402-9020
Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

Mr. Kirk Moline
C.T. Male Associates, P.C.
50 Century Hill Drive
P.O. Box 727
Latham, New York 12110

June 16, 2009

Re: Old Troy Municipal Incinerator Site
Site No. 442001
Rensselaer County

Dear Mr. Moline:

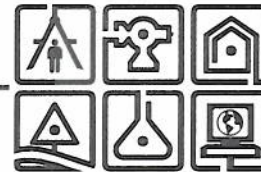
The NYSDEC has reviewed the June 2009, Site characterization Work Plan. The Department has the following comment:

- If, in the unlikely event that groundwater is encountered in this area, samples should be collected and analyzed for the TCL and TAL compound lists.

If you should have any questions don't hesitate to call.

Sincerely,

Randy Hough
Project Manager
Remedial Bureau B
Division of Environmental Remediation



June 10, 2009

Mr. Randy Hough
Project Manager
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7013



**RE: *Site Characterization Work Plan
Site Boundary Modification
Old Troy Municipal Incinerator Site
Town of Brunswick, Rensselaer County
Site No. 4-42-001***

Dear Mr. Hough:

C.T. Male Associates, P.C. (C.T. Male), on behalf of MATOPATO, LLC, has prepared this Site Characterization Work Plan (WP) for the portion of the above reference site subject to a Site Boundary Modification (SBM). The portion of the site subject to a SBM is approximately 2.5 acres located within the northwestern corner of the property generally bound by Oakwood Avenue to the west, a utility right-of-way to the north, a steep downward embankment and the concrete remains of the incinerator to the east, and the current access road onto the site to the south. A site plan map showing the approximate boundary of the subject lands is presented as Figure 1.

As discussed during our May 13, 2009 meeting at your office, it is our understanding that further characterization of soils, beyond that completed as a function of the Site Characterization under the New York State Superfund Program, is required for a Site Boundary Modification. Therefore, this work plan provides the scope and rationale for completing supplemental investigations to further document the environmental status to the portion of the site in question.

Project Background

The Old Troy Municipal Incinerator (OTMI) site is approximately 50 acres, 30 acres of which were occupied by the incinerator and associated landfill. The site is identified on the County of Rensselaer, Town of Brunswick Tax Map Number 80.00, Section 2, Parcel 2. The site is listed in the NYS Registry of Inactive Hazardous Waste Sites (Site No. 4-42-001). The landfill was purportedly used from approximately 1947 to 1969.

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The site has been the subject of various environmental reviews dating back to 1976, the most recent being reported in November 2008 which was provided to C.T. Male for review. According to the report entitled: "Site Characterization Report for the Old Troy Municipal Incinerator Site" Site No. 4-42-001, Brunswick, New York, as prepared for the DEC, the purpose of the most recent site evaluation was to:

- Confirm the presence of contamination and determine if it is migrating off-site;
- Examine the risks of contamination;
- Evaluate groundwater flow, and the influence of the bedrock topography on groundwater movement, and
- Aid in determining the need for a Remedial Investigation/Feasibility Study (RI/FS).

As indicated in the 2008 Site Characterization Report, limited investigation of the area subject to the SBM was completed mainly because there was little indication that this portion of the site was subject to filling when site was operated as a landfill. The investigations completed within or in close proximity to the subject area included the collection and laboratory analysis of two (2) surface soil samples, one (1) subsurface soil sample, three (3) groundwater samples from one (1) monitoring well, and two (2) soil gas samples. Figure 2.9 from the Site Characterization Report shows the approximate locations of the various media samples. A summary of the analytical findings for these select samples is presented below.

Surface Soil (Sample ID# SS-01 and SS-04): The samples were analyzed for Target Compound List (TCL) semi-volatile organic compounds (SVOC), pesticides, PCBs and Target Analyte List (TAL) metals including mercury and cyanide. The report concludes that although there were a few minor detections of SVOCs and metals in the samples, none were detected at concentrations above their respective soil cleanup objective values as established in NYCRR Part 375-6, for Restricted Commercial Use.

Subsurface Soil SB-05 (4' to 4.5'): The sample was analyzed for Target Compound List (TCL) of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOC), pesticides and PCBs. The report indicates there were no volatile organic compounds, pesticides and PCBs detected above the laboratory detection limit, and only one (1) SVOC was detected at a concentration below its respective soil cleanup objective value as established in NYCRR Part 375-6, for Restricted Commercial Use.

Monitoring Well (OTMI MWBR-01): This is a bedrock monitoring well installed south of the Site Boundary Modification area, and is the closest groundwater monitoring point to the proposed site boundary. There were no volatile organic compounds detected in the groundwater sample above the laboratory method detection limits. A few metals were detected in the groundwater above regulatory groundwater standards, namely iron, manganese, and selenium.

Soil Vapor (SV-1 and SV-2): Soil vapor samples were collected from two points in the vicinity of the site Boundary Modification area. SV-1 was collected to the south of the proposed boundary, along Oakwood Avenue, and SV-2 was collected north of the proposed boundary, within the utility right-of-way. The report states the following in regard to the soil vapor results: "The presence of volatile hazardous wastes in the subsurface soils and groundwater necessitates the need for continued evaluation of the potential for vapor intrusion for any buildings developed on the site, including provision for mitigation of any impacts identified." As the proposed SBM is considered to be part of the "site", future development on the SBM area will need to consider these conclusions.

Proposed Sampling Locations and Methods

The proposed area subject to the Site Boundary Modification is shown in Figure 1. Reconnaissance of the area suggests that soil type materials other than those associated with the former incinerator has been deposited on the site. This material is characterized by the various mounds of material, most prevalent within the southeastern section of the SBM area. Placement of the material appears to be greater than 10 years ago as fairly mature trees are growing out of many of the piles. According to the site owner, a long time resident of the area, much if not all of the material is associated with road construction project along Oakwood Avenue and other road projects in the area.

In order to evaluate the composition of the various piles and to supplement the investigations already completed within the SBM area, the following scope of work is proposed. The overall intent of the investigation will to be determine if various piles of materials are composed of road construction debris or other general soil fill that would not necessitate special handling/disposal requirements, and that native soils beneath the piles are native and not impacted by wastes of similar characteristics to that which was disposed of in the other portions of the OTMI site.

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Each of the material piles will be excavated with a small excavator to determine its composition. The excavated materials will be screened with a Photoionization Detector (PID) for evidence of volatile organic compounds. Organoleptic perception (i.e. sight and smell) will also be used to assess the piles of materials. Samples from the piles are not planned to be collected for laboratory analysis at this time. However, if subjective evidence of contamination (i.e. unusual odors, stained soils, discolored soils, etc.) is noted, that particular pile will be flagged for possible sampling at a later date, following consultation with the DEC project manager.

Six (6) sampling points are proposed over the proposed 2.5-acre SBM area as depicted in Figure 2. The sampling points are designated SMB-1 to SMB-6. The sampling points may be slightly altered within each to account for physical obstructions in the field.

Soil samples collected at each sampling location will consist of a single surface soil sample, and one subsurface soil sample. Surface soil samples will be collected from 0 to 1 foot below the ground surface (bgs) or vegetative root zone, or below the base of surface soil piles if present at the sampling location. Subsurface soil samples will be collected from a two (2) foot soil sample interval within the depths explored. The selection of the subsurface sample interval for laboratory analysis will be made on the basis of subjective observations of impacts to the soils. If no subjective evidence of environmental impacts is noted, the sample interval from one (1) to three (3) feet bgs will be collected for analysis. Total test pit depths are expected to be less than 10 feet below existing grades, and terminating on bedrock. A rubber tire backhoe will be used to excavate the test pits.

Sample Analysis

Based on the analytical results of previous sampling conducted during the Site Characterization, the surface soil samples will be analyzed for TCL semi-volatile organic compounds and TAL metals. TCL volatile organic compounds, pesticides and PCBs will not be included as the previous investigations have not identified these groups of compounds being site related contaminants of concern. The samples will be analyzed at an ELAP certified laboratory that will generate ASP Category B Data Deliverable Packages. The requisite number of Quality Assurance/Quality Control (QA/QC) samples will be collected and will include field duplicates, equipment blanks, matrix spike and matrix spike duplicates.

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Reporting

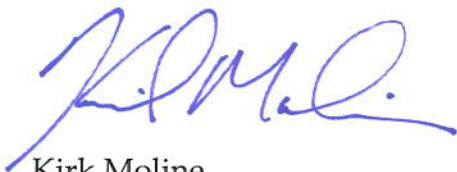
The results of the investigation will be presented in a written report which describes the methods of investigation, data and observations made in the field, summary of the analytical results compared to Part 375 Soil Cleanup Objective Values and our overall conclusions and recommendations. The report will append site maps, field sampling logs, test pit logs, PID soil screening logs, photographs, and the laboratory analytical reports. A separate letter of intent, with a meets and bounds description, will be submitted along with the report requesting a site boundary modification.

Upon your review and approval of this plan, we will schedule the work for completion. The overall investigation, considering completion of the field work, laboratory turnaround time and report preparation is estimated to be approximately 6 to 8 weeks from initiation.

If you have any questions or require additional information, please contact the undersigned at 518.786.7502.

Respectfully submitted,

C.T. MALE ASSOCIATES, P.C.



Kirk Moline
Managing Geologist

Attachments

c: Thomas Murley, P.E.



0 150 300 600 Feet

Map Note: 1. Aerial Photography (One Foot Resolution) was Flown in Spring of 2007.
 2. 5' Contours are interpolated From USGS 7.5 Minute DEM (10x10m data spacing) and Are considered as approximate.

Project Number: 09.9256
Data Source: NYSGIS Clearinghouse, Rensselaer County
Projection: State Plane NAD83 NYE (feet)

Figure 1: Old Troy Municipal Incinerator Site

Town of Brunswick Rensselaer County, New York

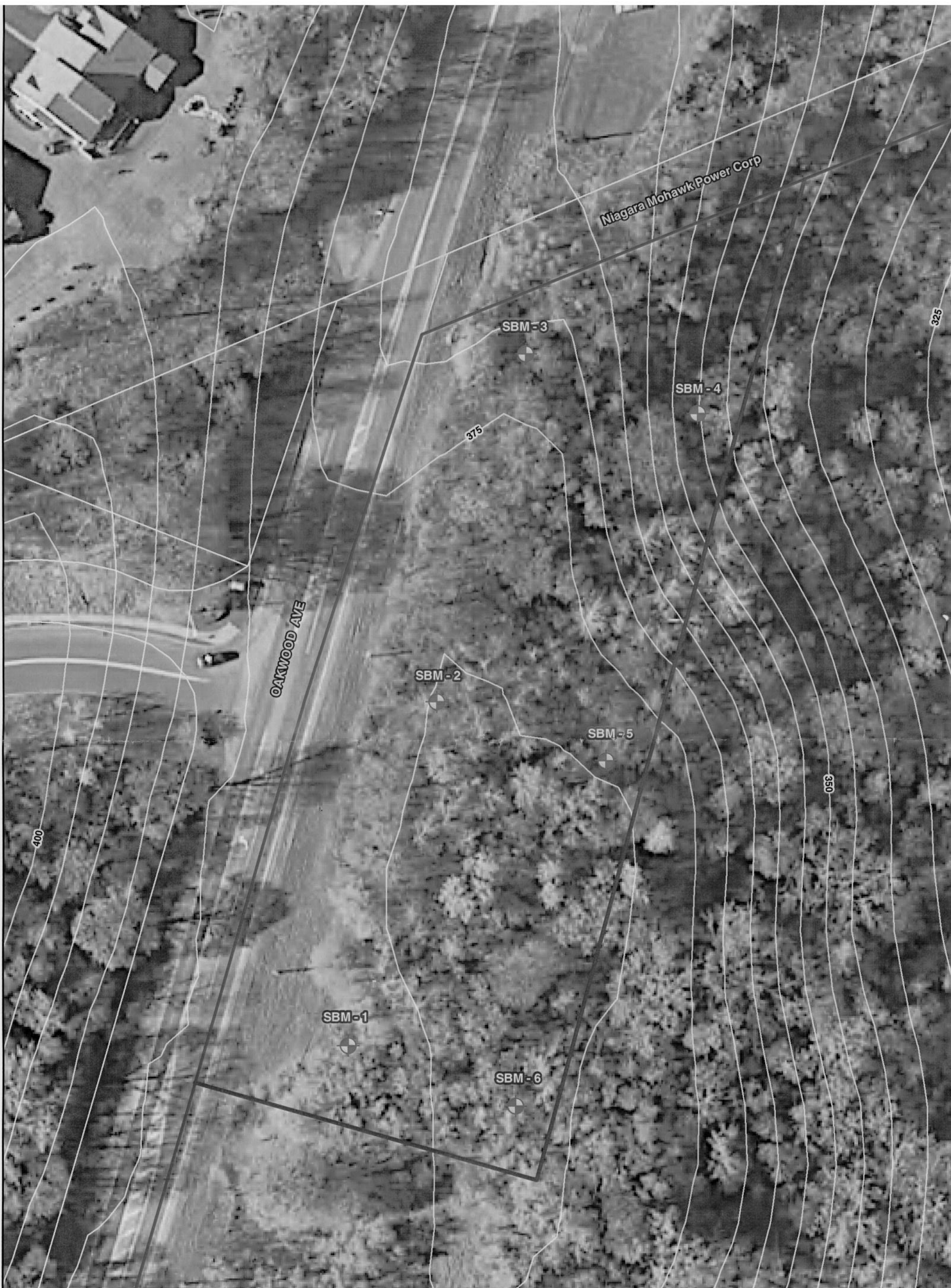
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 Environmental Services * Geographic Information Services (GIS) *
 Land Development * Land Surveying

Legend

- Site Boundary Modification (Approximate)
- Project Site Boundary (Approximate)
- Brunswick Tax Parcels (2005)

Date: June 08, 2009
 File: OakwoodBlvdSite11x17.mxd
 GIS: C Secor



**Figure 2: Proposed Soil Sampling Locations
Site Boundary Modification
Old Troy Municipal Incinerator Site**

Town of Brunswick





Rensselaer County, New York



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Legend

- SBM-6**  Proposed Test Pit Location & Number (Typ.)
-  Site Boundary Modification (Approximate)
-  Project Site Boundary (Approximate)
-  Brunswick Tax Parcels (2005)



Map Note: 1. Aerial Photography (One Foot Resolution) was Flown in Spring of 2007.
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