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NYS DEC

OCT 28 2013

SPILL PREVENTION & RESPONSE
REGION 7 - SYRACUSE

October 22, 2013

Mr. Thomas Biel
New York State Department of Environmental Conservation
Division of Environmental Remediation
615 Erie Boulevard West
Syracuse, New York 13204

Re: Mathews Avenue Additional Parcel B Wetland and Ditch Soil Sampling Work Plan

Dear Mr. Biel:

This letter work plan presents the scope and procedures for wetland and ditch surface soil sampling to support the development of the NYSDEC - requested qualitative exposure assessment (QEA) at the Mathews Avenue Parcel B Site in Geddes and Camillus, New York. The NYSDEC requested that additional wetland and ditch soils data be collected from Parcel B prior to the initiation of the QEA. The QEA is intended to evaluate exposure scenarios for current and future receptors at this Site. A project site plan is provided as **Figure 1**.

Quality Assurance/Quality Control (QA/QC) and health and safety procedures for this program are specified in the NYSDEC approved *RI/FS Wastebeds 1-8 Quality Assurance Project Plan* (QAPP) (O'Brien & Gere, 2006) and the *RI/FS Harbor Brook and Ballfield Sites Health and Safety Plan* (O'Brien & Gere, 2002), respectively. Both the HASP and QAPP are being utilized for this project because they were used during the performance of the Supplemental PSA at the Site. Analytical methods for this program will remain consistent with the NYSDEC-approved Supplemental PSA Work Plan (2007).

Field Investigation and Sampling Plan

The proposed tasks for the Parcel B investigation are presented below.

Marking of Final Sampling Locations in the Field

Sample locations will be marked in the field using a Trimble Geoexplorer 6000 GPS unit with sub-meter accuracy. If desired, a meeting can be held in the field with the NYSDEC to agree on the placement of the final sample locations. Proposed investigation locations are presented on **Figure 1**.

Mathews Avenue Wetland and Ditch Surface Soils

Objective: Surface soils will be co-located with previous samples located in the topographically lower areas of the Mathews Avenue Parcel B to further characterize this area and support completion of the QEA.

Approach: Surface soils will be collected from 12 wetland locations and three southern drainage swale locations by boring with a hand auger, shovel, or trowel. The 15 proposed locations have been co-located with previous sample locations and **Table 1** includes the previous sample location ID and the new sample location ID, and these proposed locations are marked in yellow on **Figure 1**. Samples will be collected

from the 0-1 ft interval. Photographs will be taken at each surface soil sampling location to document the general conditions around each of the sampling locations.

Soil samples will be submitted to a New York State-certified laboratory for analyses by USEPA SW846 methods (USEPA, 2004). These samples will be analyzed for TCL/TAL parameters using methods 8260B, 8270D, 6010C, 7471A, and Lloyd Kahn for volatile organic compounds (VOCs), semivolatile organic compounds, metals, mercury, and total organic carbon, respectively.

Subsequent to sample collection, soils will be transferred to a dedicated aluminum pan, homogenized, and collected in laboratory provided containers. Prior to homogenization, a VOC grab sample will be collected using Terra Core samplers, as described in sampling method SW846 5035. A sample summary matrix is provided as **Table 2**.

Mathews Avenue Upgradient Visual Assessment

Objective: A site reconnaissance will be performed to the south of Parcel B to identify flow paths and possible sources of contamination from upgradient properties. **Figure 2** presents the area to be visually assessed.

Approach: Property maps will be utilized to identify ownership of the area to the south of Parcel B. A visual assessment will be performed by walking the property and identifying the potential flow path(s) leading to Parcel B. Photographs and field observations will be taken, and a figure presenting flow paths in this area will be produced.

Site Survey

A sample location survey will be performed by a NYS Licensed Surveyor following the completion of the surface soil berm investigation. The New York State Plane coordinates (NAD 83) will be determined, and the ground surface elevation and top of casing elevation (NAVD 1988) will be surveyed to a vertical of 0.01 ft at sampling locations. A limited number of pertinent site features will be surveyed to allow for accurate placement of sampling locations on existing maps.

Report

Subsequent to completion of this work described above, a letter report will be submitted to the NYSDEC for review. The letter report will summarize the approach and results. The report will include a figure presenting sampling locations, tabulated analytical results, and recommendations for further action, if warranted.

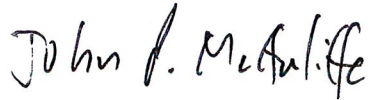
Schedule

This work will begin within 15 working days of the acceptance of this work plan.

Mr. Tom Biel
October 22, 2013
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Please contact me if you have any questions regarding this matter.

Sincerely,


John P. McAuliffe, P.E.
Program Director, Syracuse *by CCL*

Attachments (2 copies, 1 CD)

cc:	Robert Nunes	USEPA (1 copy, 2 CDs)
	Argie Cirillo, Esq.	USEPA (ltr only)
	Harry Warner	NYSDEC, Region 7 (1 copy, 1 CD)
	Mary Jane Peachey	NYSDEC, Region 7 (1 copy)
	Margaret A. Sheen, Esq.	NYSDEC, Region 7 (ltr only)
	Justin Deming	NYSDOH (ltr only)
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	Brian D. Israel, Esq.	Arnold & Porter (ec)
	Michael Spera	AECOM (1 copy)
	Joseph Heath, Esq.	(ec ltr only)
	Thane Joyal, Esq.	(1 copy, 1 CD)
	Fred Kirschner	AESE, Inc. (ec)
	Jeanne Shenandoah	Onondaga Nation (1 copy and ec ltr only)
	Curtis Waterman	HETF (ec)
	Alma Lowry	(ec ltr only)
	Steve Miller	Honeywell (ec)
	Christopher Calkins	O'Brien & Gere (ec)
	Thomas Conklin	O'Brien & Gere

Table 1
Honeywell
Mathews Avenue Site - Parcel B
Additional Wetland and Ditch Surface Soil Sampling Work Plan
Proposed Co-Located Sample Location IDs

Previous Location ID	Proposed Co-Located ID
MA-SS-09	MA-SS-09S
MA-WSD-01	MA-WSD-01S
MA-WSD-02	MA-WSD-02S
MA-WSD-03	MA-WSD-03S
MA-WSD-04	MA-WSD-04S
MA-WSD-05	MA-WSD-05S
MA-WSD-07	MA-WSD-07S
MA-WSD-08	MA-WSD-08S
MA-WSD-09	MA-WSD-09S
MA-WSD-10	MA-WSD-10S
MA-WSD-11	MA-WSD-11S
MA-WSD-12	MA-WSD-12S
MA-SED-27	MA-SED-27S
MA-SED-32	MA-SED-32S
MA-SED-33	MA-SED-33S

Sample Summary

Matrix/Analysis	Method	Samples	MS	MSD	Field Duplicates	Equipment Blanks	Trip Blanks	Total Samples
Wetland and Ditch Surface Soils (15 locations; 1 sample per location)								
TCL VOCs via Terra Core Sampler	5035/8260B plus 10 TICs	15	1	1	1	1	2	21
TCL SVOCs ¹	8270D	15	1	1	1	1	0	19
Metals	6010C	15	1	1	1	1	0	19
Mercury	7471A	15	1	1	1	1	0	19
Total Organic Carbon	Lloyd Kahn	15	1	1	1	1	0	19
Notes								
All analyses will be performed in accordance with USEPA SW846 methods.								
MS/MSD - Matrix Spike/Matrix Spike Duplicate								
¹ - SVOCs to include PXE and PTE								

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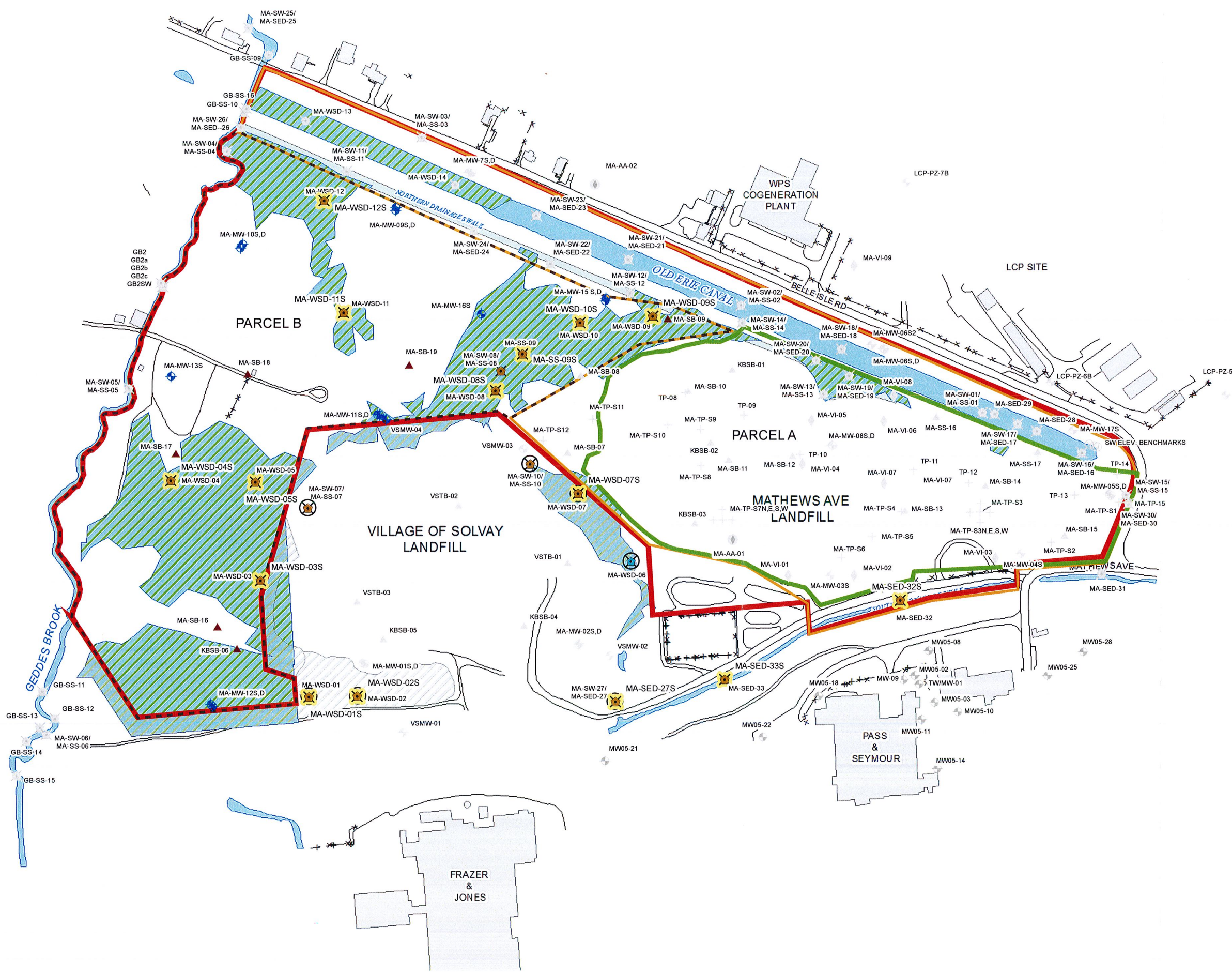


FIGURE 1

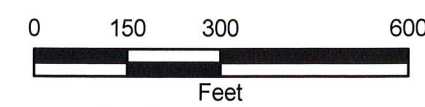


LEGEND

- PROPOSED SOIL SAMPLES
- MATHUEWS AVENUE SITE BOUNDARY
- MATHUEWS AVENUE PARCEL B BOUNDARY
- MATHUEWS AVENUE PARCEL A BOUNDARY
- MATHUEWS AVENUE LANDFILL
- DRAINAGE SWALE
- DELINEATED WETLANDS
- OFF-SITE WETLANDS
- SAMPLE TYPE**
- OFF SITE
- GRAY INDICATES OUTSIDE PARCEL B INVESTIGATION AREA
- MONITORING WELL
- OTHER
- LCP MONITORING WELL
- SOIL BORING
- SEDIMENT
- SS
- TEST PIT
- VAPOR INTRUSION
- WETLAND SEDIMENT
- PASS & SEYMOUR MONITORING WELL
- AMBIENT AIR

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MATHUEWS AVENUE SITE
WETLAND INVESTIGATION
GEDDES AND CAMILLUS, NY

SITE PLAN



SEPTEMBER 2013
1163.40137



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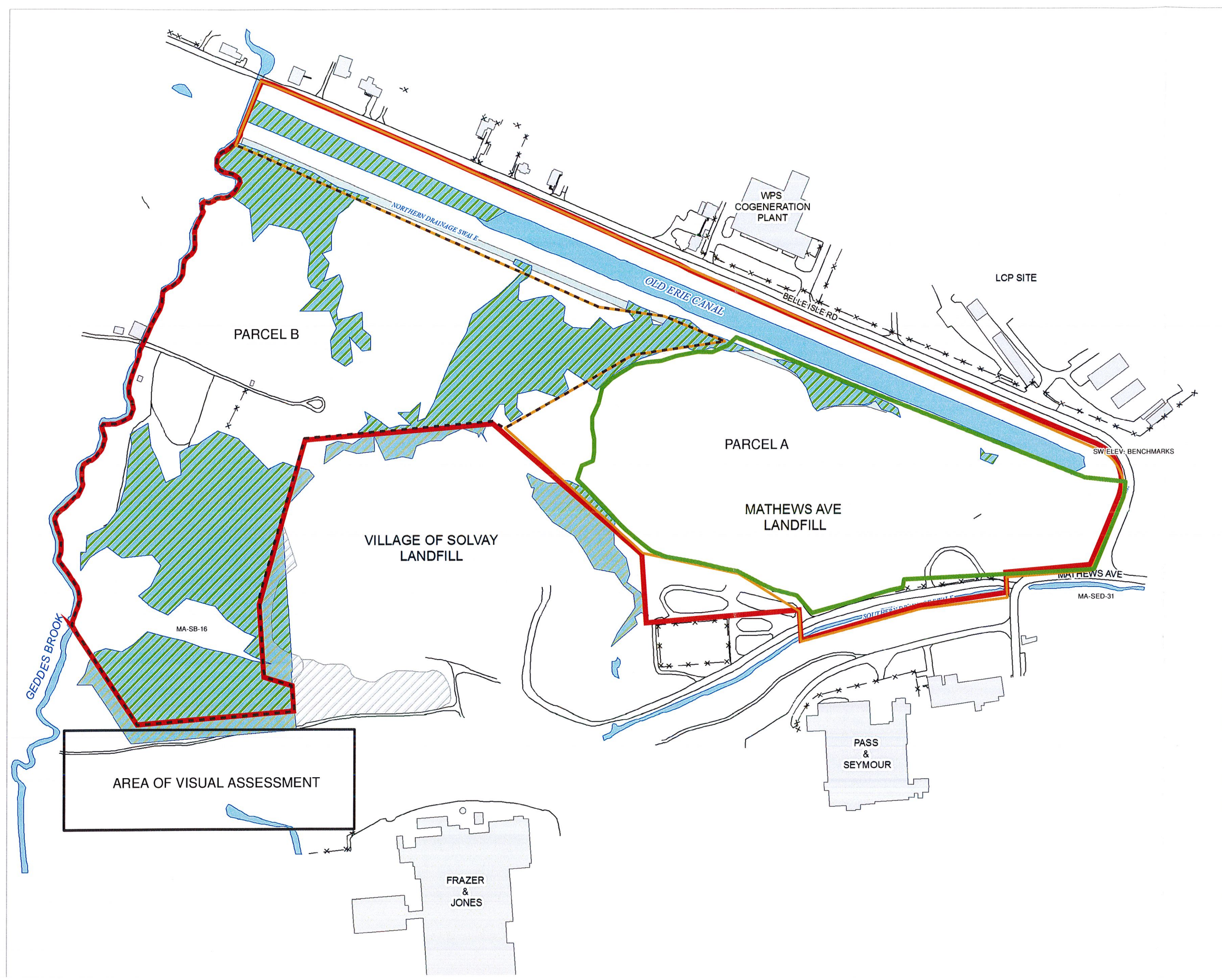


FIGURE 2

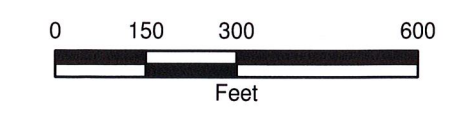


LEGEND

- MATHEWS AVENUE SITE BOUNDARY
- MATHEWS AVENUE PARCEL B BOUNDARY
- MATHEWS AVENUE PARCEL A BOUNDARY
- MATHEWS AVENUE LANDFILL
- DRAINAGE SWALE
- DELINEATED WETLANDS
- OFF-SITE WETLANDS

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MATHEWS AVENUE SITE
WETLAND INVESTIGATION
GEDDES AND CAMILLUS, NY

UPGRADIENT VISUAL
ASSESSMENT AREA



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