

## FACT SHEET

# Voluntary Cleanup Program

Receive Site Fact Sheets by Email. See "For More Information" to Learn How.

**Site Name:** Bloody Brook

**DEC Site #:** V00501

Address: Salina, NY 13088

Have questions?
See
"Who to Contact"
Below

### Remedy Proposed for Voluntary Cleanup Site Contamination; Public Comment Period and Public Meeting Announced

Public Meeting, Tuesday, 10/8/2013 at 6:00 PM
Holiday Inn
441 Electronics Parkway
Liverpool, New York 13088

NYSDEC invites you to a public meeting to discuss the proposed remedy to address contamination at the site. You are encouraged to provide comments at the meeting, and during the 30-day comment period described in this fact sheet. **An availability session will precede the public meeting from 4:00 pm to 6:00 pm.** 

The New York State Department of Environmental Conservation (NYSDEC) has released a proposed cleanup plan for the Bloody Brook site ("site") located in the Town of Salina, Onondaga County. Please see the map for the site location. Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

#### **How to Comment**

NYSDEC is accepting written comments about the proposed plan for 30 days, from **September**, **25**, **2013 through October 25**, **2013**. The proposed plan is available for public review at the location(s) identified below under "Where to Find Information." Please submit comments to the NYSDEC project manager listed under Project Related Questions in the "Who to Contact" area below.

#### **Draft Remedial Action Work Plan and Proposed Decision Document**

The cleanup plan is described in NYSDEC's Proposed Decision Document, which is based on a more detailed "Remedial Action Work Plan". The proposed remedy consists of:

- 1. A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance and monitoring of the remedial program.
- 2. Excavation and off-site disposal of contaminated soil and sediment. Approximately 20,100 cubic yards of soil and 1,700 cubic yards of sediment are estimated to be removed from the site. Clean fill will be brought in to replace the excavated soil and sediment.
- 3. A site cover will be required to allow for current uses of the site.
- 4. A Site Management Plan is required to manage and monitor residual materials left buried at the site.

The proposed remedy was developed by Lockheed Martin Corporation ("volunteer(s)") after performing a detailed investigation of the site under New York's Voluntary Cleanup Program (VCP).

Summary of the Investigation

Based upon the investigations conducted to date, the primary contaminant of concern at the site is cadmium.

Soil - Cadmium is found in both shallow and deeper soil (up to approximately 15 feet below grade), and at concentrations from below laboratory detection limits to 5,350 parts per million (ppm). Concentrations of cadmium found on-site exceed the New York State Soil Cleanup Objectives (SCOs) for unrestricted use (2.5 ppm), residential use (2.5 ppm), restricted residential use (4.3 ppm), commercial use (9.3 ppm), industrial use (60 ppm) and for the protection of ecological resources (4 ppm). Sample results indicate that cadmium concentrations decrease away from the current and former channels of the brook. In addition, cadmium concentrations are, in general, higher in the upstream portion of the site (*i.e.*, towards the Thruway), and decrease towards the downstream end of the site (*i.e.*, towards Onondaga Lake Parkway).

Sediment - Sediment in the West Branch of Bloody Brook and Bloody Brook, below its confluence with the West Branch of Bloody Brook, have been impacted by cadmium in an area from below the Thruway to the Onondaga Lake Parkway. Cadmium is found in the brook sediments at concentrations from below laboratory detection limits to 174 ppm. Cadmium concentrations in sediment exceed New York State sediment values for both the lowest effect level sediment criterion (0.6 ppm) and severe effect level sediment criterion (9.0 ppm). Sample results indicate that cadmium concentrations are, in general, higher in the northern portion of the site and decrease towards the south end of the site. Sediment in the Middle Branch was analyzed early in the investigation, and based on the sampling results, it was determined that further investigation and sediment remediation of the Middle Branch was not warranted.

Surface Water - Surface water samples collected from the West and Middle Branches of Bloody Brook did not exhibit cadmium concentrations in excess of applicable water quality standards.

#### **Next Steps**

NYSDEC will consider public comments, revise the plan as necessary, and issue a final Decision Document. New York State Department of Health (NYSDOH) must concur with the proposed remedy. After approval, the proposed remedy becomes the selected remedy. The draft Remedial Action Work Plan and Proposed Decision Document are revised as needed to describe the selected remedy, and will be made available to the public. The volunteer(s) may then design and perform the cleanup action to address the site contamination, with oversight by NYSDEC and NYSDOH.

NYSDEC will keep the public informed throughout the investigation and cleanup of the site.

#### **Background**

Location:

The Bloody Brook site is located in the Town of Salina and the Village of Liverpool in Onondaga County, New York.

#### Site Features:

The Bloody Brook Site is an approximately 5,000-foot long stretch of the brook from the New York State Thruway to the Onondaga Lake Parkway.

The main site features include the west and middle branches of the brook and brook sediments; the banks of the brook; floodplain soils; a wetland area; a wooded area; and soils associated with the former channel.

#### **Current Zoning and Land Use:**

Current Zoning and Land Use: The land uses surrounding Bloody Brook include industrial, commercial and residential, consistent with applicable, current zoning. The surrounding area also contains railroad tracks, numerous roads and right-of-ways. The brook itself is not used commercially. Bloody Brook is a Class B stream (best use is contact recreation) from the mouth of the brook to its confluence with the West Branch of Bloody Brook, approximately 0.4 miles upstream from the mouth. Upstream of this confluence, the West and Middle Branches of Bloody Brook are Class C streams (best use is fishing). The site is within the Bloody Brook Drainage District. The drainage district was formed to allow Onondaga County access to the brook to complete drainage improvements and maintain the drainage capacity of the brook.

#### Past Use of the Site:

The site contamination is believed to have resulted from discharges to the West Branch of Bloody Brook from Electronics Park. The site was owned by General Electric from 1949 to 1993 when it was transferred to Martin Marietta (predecessor to Lockheed Martin). General Electric used cadmium in the manufacturing of television picture tubes. Between 1944 and 1978, the course of the brook channel was modified five times. The modifications occurred as part of NYS Thruway construction; construction of the residential areas; construction of the former Lakeshore Drive-In Theater; and installation of new culverts for hydraulic improvements downstream of the former Lakeshore Drive-In Theater. Prior to 1938, the area was generally used for agriculture with some wooded areas and some residential homes. In February 1997, NYSDEC issued a decision document for the Electronics Park Facility. The final remedy implemented for the Electronics Park Facility included, in part, the removal of cadmium-impacted sediments within a 200-foot long culvert beneath the Thruway and from a 750-foot section in the West Branch of Bloody Brook south of the Thruway.

#### Site Geology and Hydrogeology:

The site geology consists of a sand and silt mixture, underlain by dense clay. The clay elevation is relatively consistent across the site, while the sand and silt mixture fluctuates with the surface elevation. Within the location of the former brook channel, an organic peat layer exists with a thickness from approximately one inch to three feet.

The brook has been channelized under the Onondaga County Drainage District. The brook generally flows south, and is a tributary to Onondaga Lake.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:

http://www.dec.ny.gov/cfmx/extapps/derexternal/haz/details.cfm?pageid=3&progno=V00501

**Voluntary Cleanup Program:** New York's Voluntary Cleanup Program (VCP) was developed to encourage private sector volunteers to investigate and clean up contaminated properties and return these sites to productive use. Once cleaned up, the properties may be redeveloped for commercial, industrial, residential or public use.

For more information about the VCP, visit: <a href="http://www.dec.ny.gov/chemical/8442.html">http://www.dec.ny.gov/chemical/8442.html</a>

#### FOR MORE INFORMATION

#### Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Liverpool Public Library NYS Department of Environmental Conservation

310 Tulip Street Attn: Richard Mustico, P.E.

Liverpool, NY 13088 625 Broadway phone: 315-457-0310 Albany, NY 12233 Phone: 518-402-9676

(rxmustic@gw.dec.state.ny.us)

Atlantic States Legal Foundation NYS Department of Environmental Conservation

Attn: Samual Sage 615 Erie Blvd. West 658 West Onondaga Street Syracuse, NY 13204 phone: 315-426-7400

phone: 315-475-1170

Project documents are also available on the NYSDEC website at: http://www.dec.ny.gov/chemical/37558.html

#### Who to Contact

Comments and questions are always welcome and should be directed as follows:

<u>Project Related Questions</u>
<u>Project Related Health Questions</u>

Richard Mustico Mark Sergott

Department of Environmental Conservation New York State Department of Health

Division of Environmental Remediation

Bureau of Environmental Exposure Investigation

Empire State Plaza - Corning Tower, Room 1787

Albany, NY 12233-7013 Albany, NY 12237

518-402-9788 518-402-7860

rxmustic@gw.dec.state.ny.us BEEI@health.state.ny.us

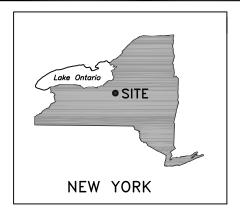
We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

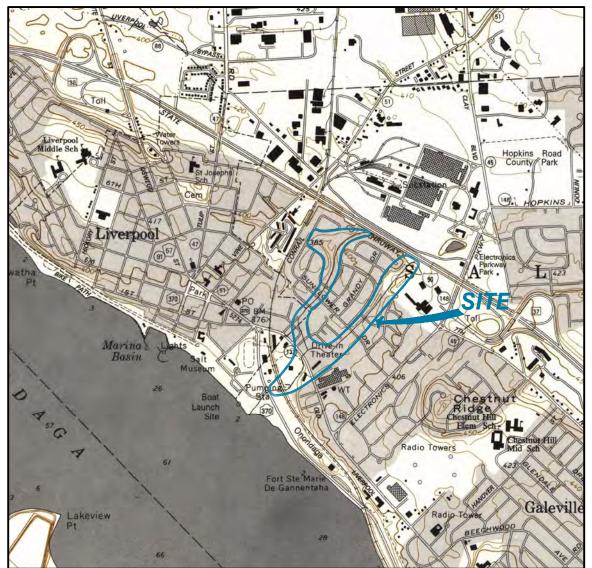
#### **Receive Site Fact Sheets by Email**

Have site information such as this fact sheet sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: <a href="http://www.dec.ny.gov/chemical/61092.html">http://www.dec.ny.gov/chemical/61092.html</a>. It's quick, it's free, and it will help keep you *better informed*.

As a listsery member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Note: Please disregard if you already have signed up and received this fact sheet electronically.







#### REFERENCE:

 NYSDOT 7.5 MIN TOPOGRAPHIC MAP OF SYRACUSE WEST, QUADRANGLE 1990, SCALE: 1" = 2000'.

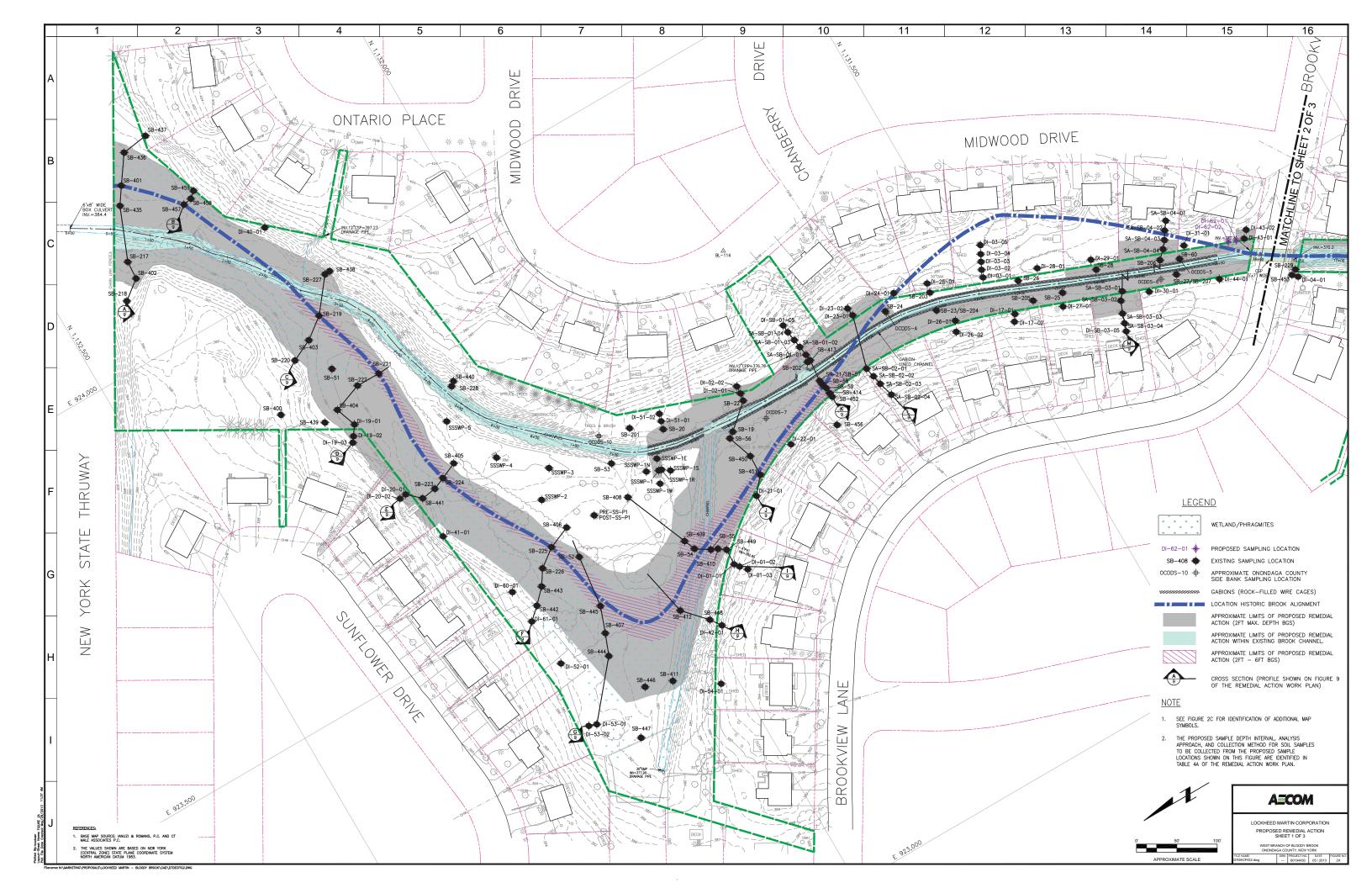


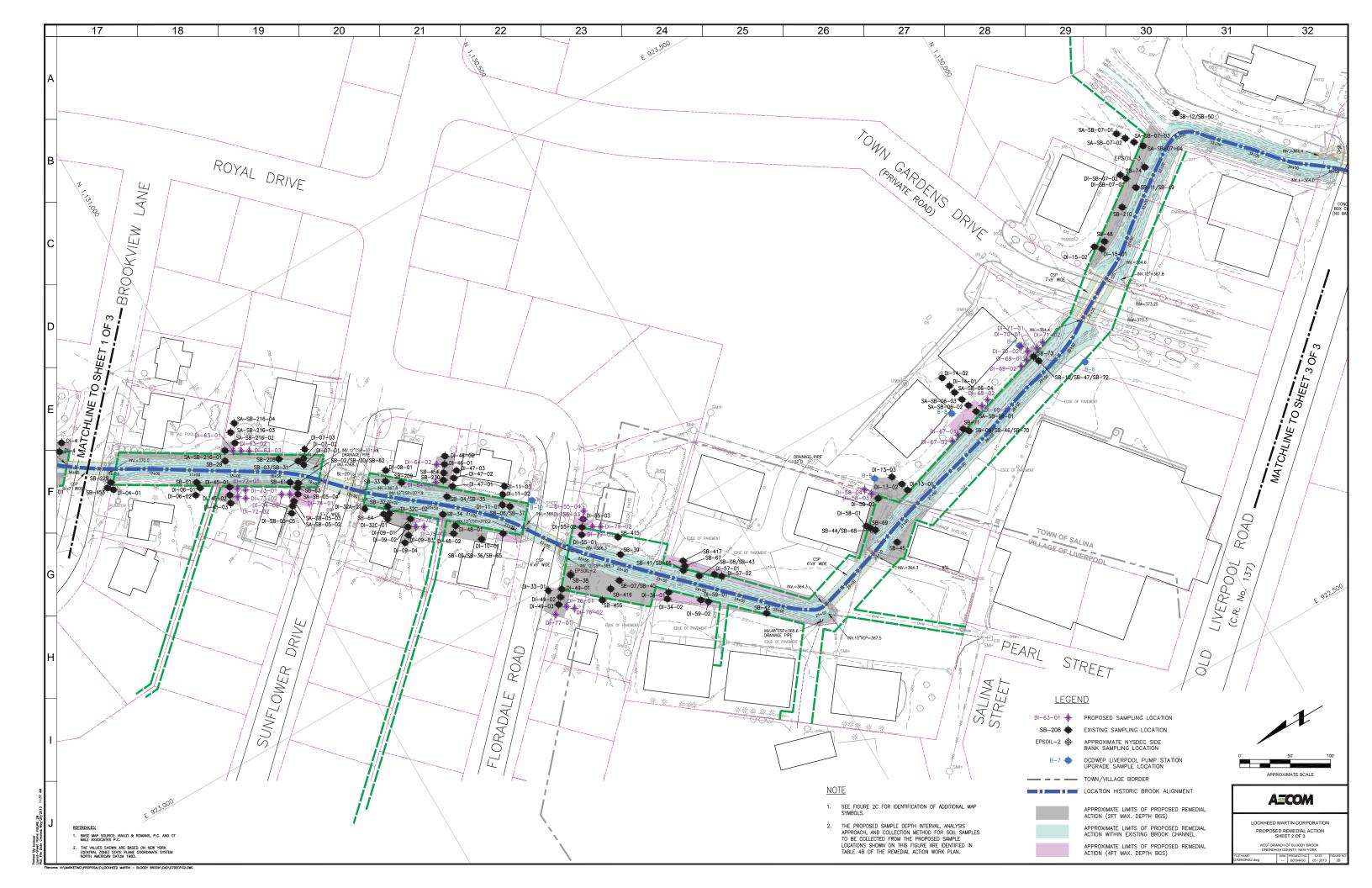
LOCKHEED MARTIN CORPORATION

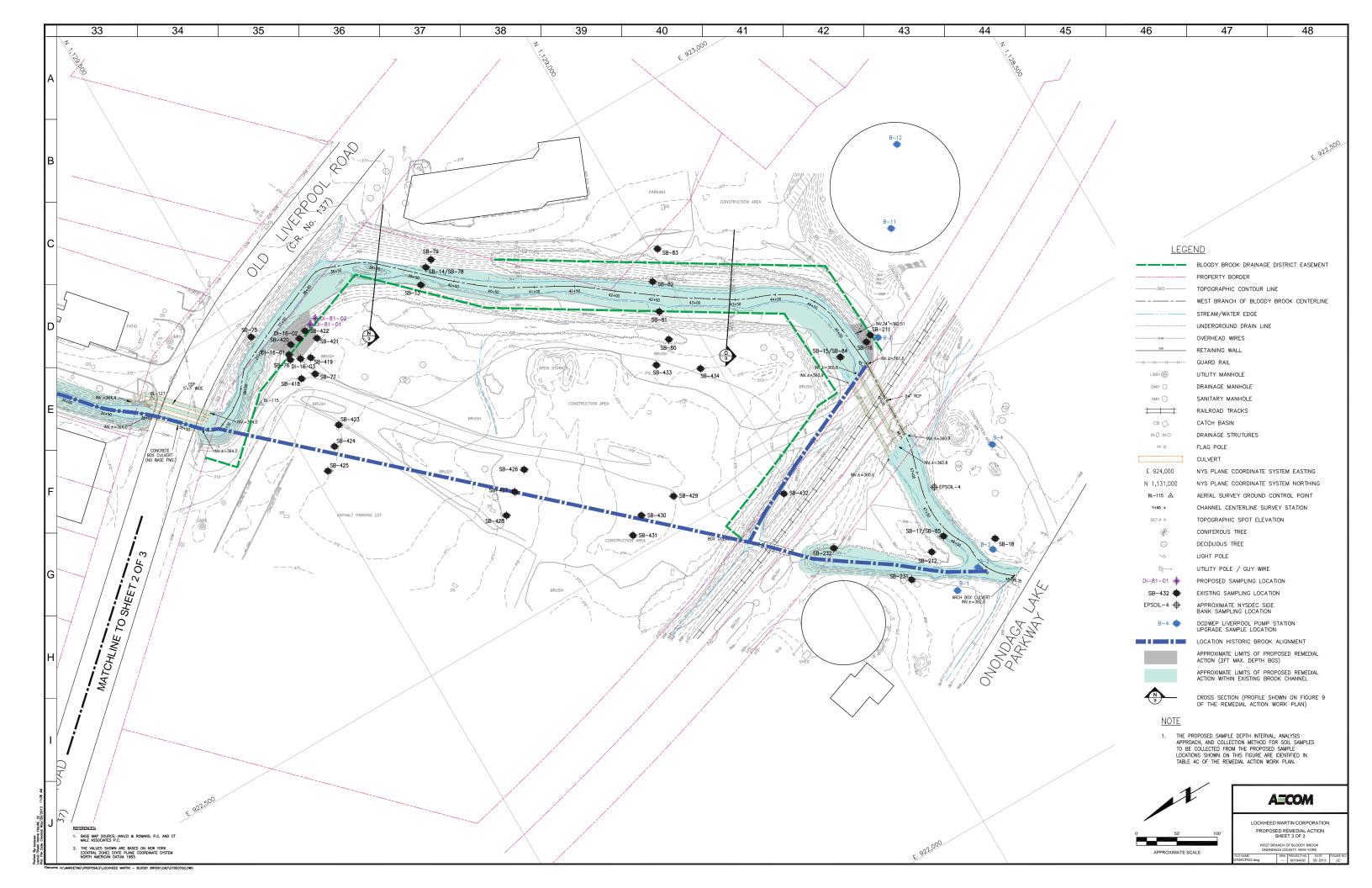
SITE LOCATION MAP

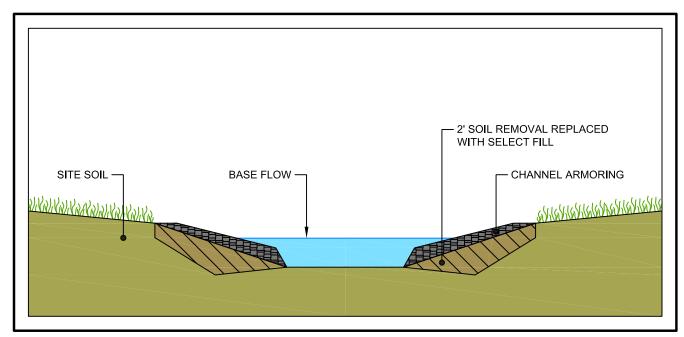
WEST BRANCH OF BLOODY BROOK ONONDAGA COUNTY, NEW YORK

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
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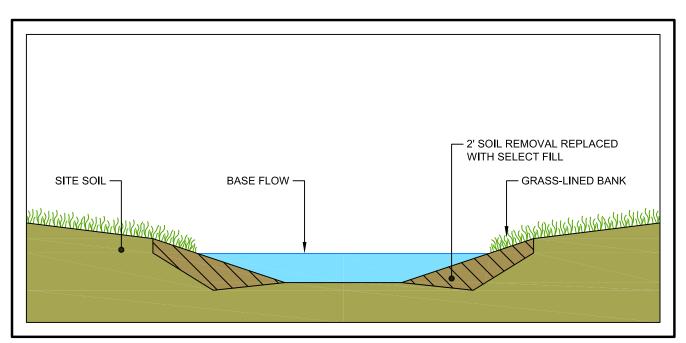








#### ARMORED BANK RESTORATION



**GRASS-LINED BANK RESTORATION** 

