

**NEW YORK STATE
DEPARTMENT OF**



**ENVIRONMENTAL
CONSERVATION**

Dear Interested Citizen:

This fact sheet provides you with information about the investigation at Bloody Brook in the Town of Salina, Onondaga County. If you have any questions or would like more information, please do not hesitate to contact:

Mr. Richard Mustico
Project Manager
NYSDEC
625 Broadway
Albany, NY 12233-7016
(518) 402-9676

Mr. Gregg Townsend
Regional Hazardous Waste
Engineer
NYSDEC
615 Erie Blvd.
Syracuse, NY 13204
(315) 426-7551

For site-related health questions, please contact the following New York State Department of Health (NYSDOH) representative:

Mr. Richard Jones
Public Health Specialist
NYSDOH
217 South Salina Street
Syracuse, NY 13202
(315) 477-8148

or the following Onondaga County Health Department representative:

Ms. Lisa Letteney, P.E.
Director, Environmental Risk
Assessment
Onondaga County Health
Department
Division of Environmental Health
P.O. Box 15190
Syracuse, NY 13215-0190
(315) 435-6600

FACT SHEET

**Bloody Brook
Voluntary Cleanup Program Site Investigation**

Site No. V00501-7
Town of Salina, Onondaga County, New York
August 2008

INTRODUCTION

In July 2002, the New York State Department of Environmental Conservation (NYSDEC) and Lockheed Martin Corporation (Lockheed Martin) entered into a Voluntary Cleanup Program agreement for the investigation and remediation of Bloody Brook. The area is located from the New York State Thruway to the Onondaga Lake Parkway in the Town of Salina, Onondaga County, New York (see Figure 1).

UPCOMING ACTIVITIES

A work plan for culvert cleaning in the West Branch of Bloody Brook was approved by NYSDEC on June 13, 2008. The culvert cleaning is expected to begin on August 18, 2008 and conclude in mid-September of this year. Approximately 170 cubic yards of sediment, from four culvert crossings in the West Branch of Bloody Brook, will be excavated and taken to a solid waste landfill for proper placement. The work is intended to help the flow of water through the brook channel (see Figure 2).

With respect to the overall remedial work on the site, the most recent soil sampling results are currently being evaluated. Along with the information previously collected, the data will be used to determine what cleanup work may be necessary to protect both public health and the environment. A remedial work plan (a document which will lay out potential cleanup options) is expected to be submitted by Lockheed Martin to the NYSDEC later this year. Following the submittal of a remedial work plan, the NYSDEC will distribute a fact sheet and hold a public meeting in order to discuss the proposed remedial action for Bloody Brook with the public. As part of the public participation process, a public comment period will follow, during which the public may submit comments on the proposed plan to NYSDEC, which will be taken into account for the selection of the final remedy.

BACKGROUND

Bloody Brook flows through a residential area, which includes both single family homes, duplexes and an apartment complex; commercial and light industrial areas; and ultimately discharges to Onondaga Lake. The area is served by public water and sewer.

PREVIOUS INVESTIGATIONS AND FIELDWORK

In April 1997, Lockheed Martin, with NYSDEC oversight, commenced a sediment removal project in the West Branch of Bloody Brook. The project included sediment removal from within a 200-foot long culvert beneath the New York State Thruway and sediment removal along a 750-foot segment of the stream beginning at the end of the culvert. The work was documented in the West Branch of Bloody Brook Sediment Removal Certification Report, dated November 1997.

From 1994 to 2008, sampling has occurred in and adjacent to Bloody Brook. Cadmium concentrations in soil range from non-detect to 5,350 parts per million (ppm) and in sediment from 2.6 to 174 ppm. Typically, the greatest concentrations of cadmium in soil were found at depths greater than one foot. Cadmium compounds were not detected in the water of Bloody Brook. Concentrations of cadmium in soil and sediment, however, are above NYSDEC guidance values. The most recent soil and sediment sampling occurred in December 2007 and January 2008. The results of the recent sampling, as well as past sampling, conducted by Lockheed Martin with NYSDEC, may be accessed at any of the document repositories set up for the Bloody Brook Voluntary Cleanup Program Site (see the "Document Repositories" section below). These investigations will aid in defining the extent of cadmium in the soil and sediment and provide information to the NYSDEC for the selection of a site remedy.

Cadmium is a naturally occurring metal, usually found in rocks and soil as a mineral, combined with other elements such as oxygen, chlorine, or sulfur. In industry and consumer products, it is used for batteries, pigments, metal coatings, and plastics. It is present at low levels in foods and in cigarette smoke. Eating food or drinking water containing very high levels of cadmium can severely irritate the stomach. Long term exposure by consumption may lead to a buildup of cadmium in the kidneys and possible kidney disease. Skin contact with cadmium is not known to cause health effects. The EPA has determined that cadmium may be carcinogenic by inhalation. (ATSDR, 1997. For more information go to www.atsdr.cdc.gov.)

The exposure pathway of concern at Bloody Brook is accidental ingestion of contaminated soil or sediment carried to the mouth by dirty hands. Much of the area on the banks is well vegetated with grass and brush which constitutes a barrier decreasing potential contact with soil. The Onondaga County Health Department has advised the public to avoid playing in the Brook or on the banks until remediation is complete.

DOCUMENT REPOSITORIES

Public understanding and involvement are important to the success of New York's Voluntary Cleanup Program. As the project progresses, the NYSDEC will distribute fact sheets, like this one, to keep you informed. In addition, the Department has also placed site documents in repositories for you to read.

The NYSDEC has established document repositories for the Bloody Brook Voluntary Cleanup Site at:

NYSDEC
615 Erie Boulevard
Syracuse, NY 13204-2400
(315) 426-7403
Hours: M-F 8:30am-4:45pm
Please call for an appointment

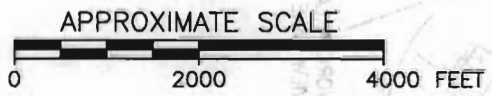
Liverpool Public Library
310 Tulip Street
Liverpool, NY 13088
(315) 457-0310
Hours: M-Th 9:00am-9:00pm
Fri 9:00am-6:00pm
Sat 10:00am-5:00pm
Sun 12:00pm-5:00am

Atlantic States Legal Foundation
658 West Onondaga
Syracuse, NY 13204
(315) 475-1170
Please call for an appointment

NYSDEC
625 Broadway
Albany, NY 12233-7016
(518) 402-9676

L:\project\LOCKHEED\BLOODY\824446A14.dwg
 Plot Date/Time: 12/07/05 09:51am Image: BB1
 Format Revised: 12/15/99 Xref: .

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY
ALBANY, NY	S. SHKOLNIK 02-15-05	DG 02-15-05	DS 02-15-05
DRAWING NUMBER		824446A14	



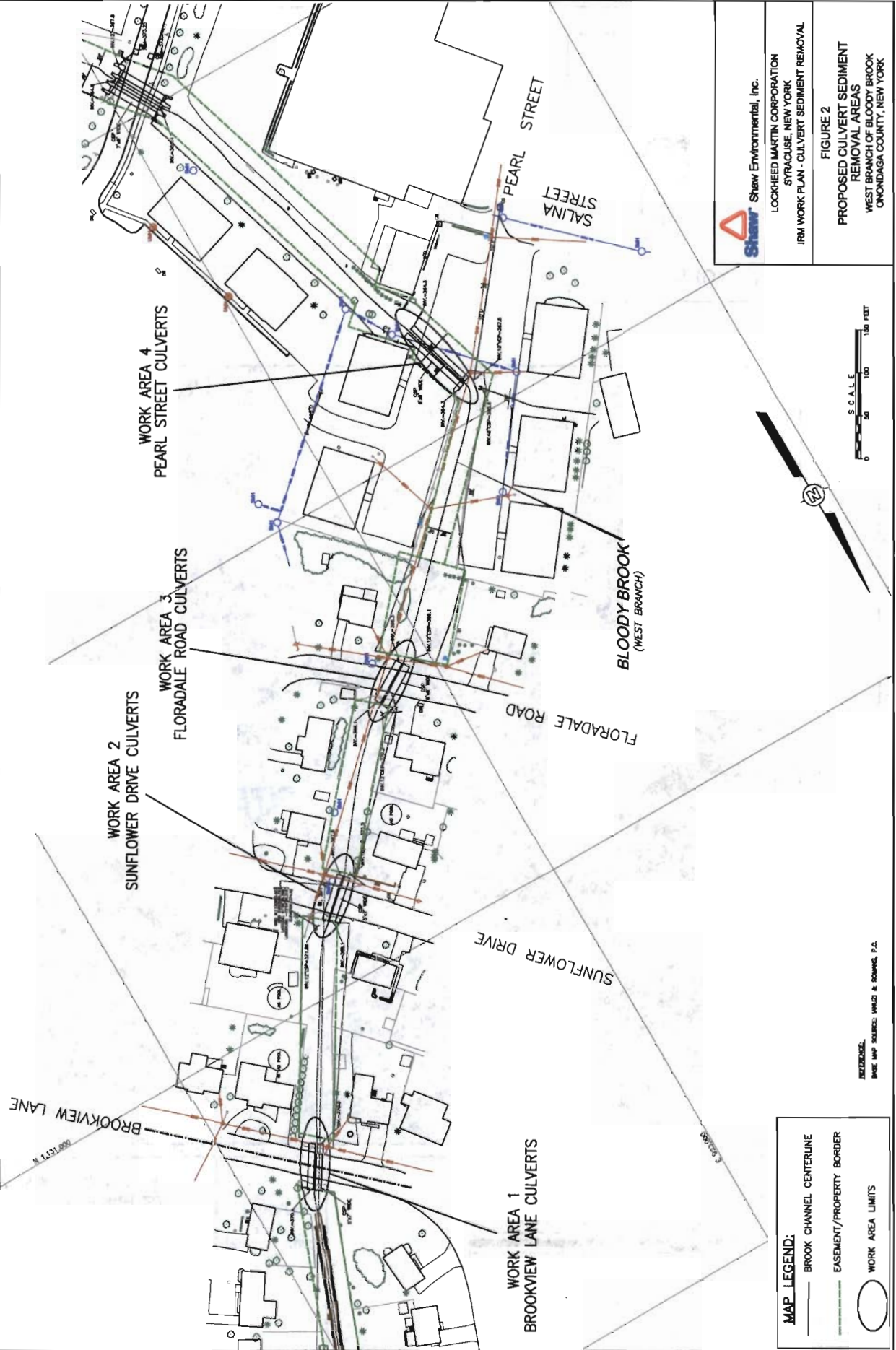
REMEDIAL ACTION WORK PLAN
 WEST BRANCH OF BLOODY BROOK
 BLOODY BROOK VOLUNTARY CLEANUP PROGRAM
 ONONDAGA COUNTY, NEW YORK

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

FIGURE 1
 SITE LOCATION MAP

PROJECT: 129916D1(FS)	DATE: 02/22/08	DESIGNED BY: DTS/MS	DRAWN BY: SSM/MS	CHECKED BY: DTS	APPROVED BY: DTS
OFFICE: LATHAM, NR	DATE: 02/22/08	DESIGNED BY: DTS/MS	DRAWN BY: SSM/MS	CHECKED BY: DTS	APPROVED BY: DTS
DRAWING NUMBER: 129916D1(FS)					

Project: 129916D1(FS)
 Drawn by: SSM/MS
 Date: 02/22/08
 Scale: 1"=100'



MAP LEGEND:

	BROOK CHANNEL CENTERLINE
	EASEMENT/PROPERTY BORDER
	WORK AREA LIMITS

Shear Shear Environmental, Inc.
 LOCKHEED MARTIN CORPORATION
 SYRACUSE, NEW YORK
 IRM WORK PLAN - CULVERT SEDIMENT REMOVAL

FIGURE 2
PROPOSED CULVERT SEDIMENT REMOVAL AREAS
 WEST BRANCH OF BLOODY BROOK
 ONONDAGA COUNTY, NEW YORK

REVISIONS:
 BASE MAP SOURCE: WARD & ROWLES, P.A.