

COMMUNITY RELATIONS PLAN

New York Ordnance Works (NYOW)

Onondaga County, New York

Formerly Used Defense Site (FUDS) Project Number C02NY029001

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Prepared for:



**U.S. Army Corps of Engineers
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This Community Relations Plan was prepared by Avatar (a wholly-owned subsidiary of Bluestone Environmental Group, Inc.) to facilitate communication among the communities surrounding the site, the U.S. Army Corps of Engineers (USACE), New England District (CENAE), and the New York State Department of Environmental Conservation, and to encourage community involvement in the process while performing architect and engineering services under the USACE Hazardous, Toxic and Radioactive Waste (HTRW) Contract Number W912WJ-19-D-0001, Delivery Order Number W912WJ19F0056. This Community Relations Plan will be updated, as appropriate, if any new information is found that would affect portions of this Plan. Changes to the Community Relations Plan will be coordinated with USACE for their concurrence.

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List of Acronyms

amsl	above mean sea level
Alion	Alion Science and Technology Corporation
AOCs	Areas of Concern
CENAE	U.S. Army Corps of Engineers, New England District
CERCLA	Comprehensive Environmental Restoration, Compensation, and Liability Act
CON/HTRW	Containerized Hazardous, Toxic and Radioactive Waste
COCs	Constituents of Concern
CRP	Community Relations Plan
D&M	Dames & Moore
DERP	Defense Environmental Restoration Program
DNCB	2,4-Dinitrochlorobenzene
DNP	2,4-Dinitrophenol
DoD	Department of Defense
Eco-SSLs	Ecological Soil Screening Levels
EPA	Environmental Protection Agency
FS	Feasibility Study
FRMD	FUDS Records Management Database
FUDS	Formerly Used Defense Sites
GOCO	Government-Owned, Contractor-Operated
GSA	General Services Administration
HHRA	Human Health Risk Assessment
HTRW	Hazardous, Toxic and Radioactive Waste
INPR	Inventory Project Report
LTM	Long Term Management
M&E	Metcalf & Eddy
MCL	Maximum Contaminant Level
MMRP	Military Munitions Response Program
NYOW	New York Ordnance Works
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSUDC	New York State Urban Development Corporation
OEW	Ordnance and Explosive Waste
PAH	Polycyclic Aromatic Hydrocarbons
PCB	polychlorinated biphenyls
PCO	Project Closeout
PM	Project Manager
PP	Proposed Plan
RAB	Restoration Advisory Board
RA-C	Remedial Action-Construction
RA-O	Remedial Action-Operations
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design

RFC	Reconstruction Finance Corporation
RI	Remedial Investigation
ROD/DD	Record of Decision/Decision Document
RSL	Regional Screening Levels
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TAPP	Technical Assistance for Public Participation
TASC	Technical Assistance Services to Communities
TPP	Technical Project Planning
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
VOCs	Volatile Organic Compounds
WMA	Wildlife Management Area

OVERVIEW OF THE COMMUNITY RELATIONS PLAN

The United States Army Corps of Engineers (USACE), New England District (CENAE) is conducting a Remedial Investigation (RI) at New York Ordnance Works (NYOW) in Onondaga County, New York. This work is being conducted under the Defense Environmental Restoration Program (DERP)-Formerly Used Defense Sites (FUDS) program, Project No. C02NY029001.

This Community Relations Plan (CRP) was developed to facilitate communication among the communities surrounding the site, USACE, the New York State Department of Environmental Conservation (NYSDEC), and the New York State Department of Health (NYSDOH) and to encourage community involvement in the process. USACE will utilize the community involvement activities outlined in this plan to ensure that residents are continually informed and provided opportunities to be involved.

This CRP was developed under the requirements of the Comprehensive Environmental Restoration, Compensation and Liability Act (CERCLA), all applicable NYSDEC requirements, and U.S. Army requirements for FUDS outlined in *Environmental Quality - Formerly Used Defense Sites* (USACE, 2004a). This particular site falls under the program called DERP-FUDS. The FUDS Program is responsible for cleaning up environmental contamination caused by military activities at properties formerly owned, leased, possessed, or used by the Secretary of Defense (Army, Navy, Air Force, or other Defense agencies) prior to October 1986. USACE will oversee the implementation and revision to this plan.

This CRP provides a description of the NYOW site property, including a site background and history (Section 1.0); a summary of previous site investigations (Section 2.0); a background of the local communities (Section 3.0); USACE's public involvement program (Section 4.0); and a listing of available resources (Appendices). The USACE Project Manager will oversee the implementation of the community involvement activities outlined in this plan.

This CRP is based primarily on the following USACE guidance document, which is consistent with Environmental Protection Agency (EPA) Superfund community involvement guidance document (USEPA, 2005a):

U.S. Army Corps of Engineers (2011). *Public Participation in the Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS)*. Engineer Pamphlet EP 200-3-1. September 2011.

Additional documents used in the preparation of this document included:

- USACE (2004a). *Environmental Quality - Formerly Used Defense Sites (FUDS)*. ER 200-3-1. May 2004.

- USEPA (2005 and 2005a). *Superfund Community Involvement Handbook*. 540-K-05-002 & 540-K-05-003. April 2005.

1.0 SITE BACKGROUND

As shown on **Figure 1-1**, the former NYOW is located in Onondaga County, New York, near the Finger Lakes, about one-mile northeast of the Village of Baldwinsville and approximately 13 miles north of Syracuse, NY. The site is currently owned by the Radisson Community, the State of New York, and private owners (**Figure 1-2**). The New York State Department of Environmental Conservation (NYSDEC) Environmental Database lists the site as “Federal Government Facility-Picric Acid site”, State Superfund Program, site Code 734003 (NYSDEC, 2018a).

1.1 Site History

The site was acquired from private owners in various parcels in 1942 to establish a facility for the manufacture of ammonium picrate during World War II. Ammonium picrate is a stable, high explosive compound used in the production of armor piercing shells. The facility was designed and built by Lummus Company and included 146 structures. Construction was completed in May 1943. The site was operated by National Aniline Defense Corporation, a Division of Allied Chemical and Dye Corporation, under the supervision of the Chief of Ordnance of the War Department (USACE, 1985).

The facility was a Government-Owned, Contractor-Operated (GOCO) ammunitions plant designed to produce 60,000 pounds of ammonium picrate per day, seven days a week. The plant included an administration area, ammonium picrate area, acid area, and magazine storage/bunker area (**Figure 1-2**) (Reconstruction Finance Corporation, undated). The facility encompassed approximately 2,100 acres of the 6,800-acre property; the remainder was farmland. Operations began in January 1943, were shut down in March 1944, and the property was declared surplus in August 1945 (USACE, 1981).

In August 1945, the 6,795-acre property was transferred to the Reconstruction Finance Corporation (RFC), an independent government agency now known as the General Services Administration (GSA). Subsequently, 4,495 acres in the northern and western parts of the site were classified as farmland and assigned to the Farm Credit Administration for disposal. By 1947, all tracts of land designated as farmland had been sold, including 2,600 acres to the NYSDEC for use as the Three Rivers State Wildlife Management Area (WMA) and 1,895 acres subdivided among 98 individual private owners (USACE, 2006).

The remaining 2,300 acres were classified as industrial property. In 1948 and 1950, 500 acres of the industrial property were sold to Fosham Corporation, a merger of a used rail company (L.B. Foster) and Hamilton Corporation of Cincinnati (USACE 1981). A later purchase by Fosham (approximately 1,600 acres) was identified in the deed as impacted; the deed required the purchaser to decontaminate the property and to provide proof of decontamination to the government. Fosham Corporation notified the GSA in October 1950 by letter that *“all decontamination work necessary under the terms of this agreement has been performed by this company and, in particular, the drying houses and the lower portion of the ramps in each A.P. line*

have been burned.” A letter dated December 14, 1950 from the New York Regional Office of GSA noted that the premises were examined by a representative of the Ordnance Ammunition Center, US Army Joliet, Illinois on November 24, 1950 and “*no evidence of contamination was found*” (USACE, 1981). By 1969, this acreage was under the ownership of the New York State Urban Development Corporation (NYSUDC); this area is now known as the Radisson Community.

DoD had previously used the former bunkers within the current Three Rivers WMA for the storage of finished product (ammonium picrate powder). DoD did not build or operate any facilities on the tracts of land designated as farmland. However, drainage ditches carrying effluent from the north sides of the Ammonium Picrate Area traversed through the farmland (M&E, 1990) (**Figure 1-2**).

1.2 FUDS Eligibility Review

The DERP-FUDS Program began in the mid-1980s and includes identifying eligible properties, investigating their condition, and addressing any contamination by hazardous substance contamination that was a result of DoD activities. In FUDS ER-200-3-1, FUDS are defined as real property that was under the jurisdiction of the Secretary (meaning the Secretary of Defense and the Secretaries of each of the Military Departments, as well as the Secretaries of any predecessor departments of agencies of DoD) and owned by, leased by, or otherwise possessed by the United States (including governmental entities that are the legal predecessors of Department of Defense [DoD] or the Components) and those real properties where accountability rested with DoD but where the activities at the property were conducted by contractors (i.e., Government-owned, Contractor operated [GOCO] properties) that were transferred from DoD control prior to 17 October 1986. The FUDS Program goals and objectives include reducing risk to human health and the environment through implementation of effective, legally compliant, and cost-effective response actions.

The NYOW facility was a GOCO ammunitions plant under the direct supervision of the Office of the Chief of Ordnance through the Office of the Field Director of Ammunitions Plants, St. Louis; therefore, the site is eligible under DERP-FUDS.

According to the USACE Inventory Project Report (INPR) dated 18 October 1991, USACE conducted a preliminary assessment of the NYOW on 28 February – 01 March 1991. During the site visit, representatives from the USACE New York District spoke with personnel from NYSDEC and the Radisson Community Association. USACE visited the 14 bunkers and the Radisson Community (including the acid tank area).

The INPR Site Survey Summary Sheet (dated 17 June 1991) indicated that: i) the bunkers were being beneficially used for storage and maintenance equipment and other materials; ii) five open concrete acid tanks, not being beneficially used, remained on site which contained acidic water (at the time being cleaned out by a NYSDEC contractor); iii) most of the remaining structures

were demolished, but the water tower, six bunkers, acid plant, five acid tanks, pump house, and assorted foundations remained (USACE, 1991; 1992a).

A letter dated 06 December 1989, from the Real Estate Division of USACE New York District, was addressed to the Radisson Community Association regarding the remaining structures. The letter stated that when the property was transferred to the Fosham Corporation in 1950, there was no agreement requiring the government to remove any former military structures. Therefore, the Radisson Community's request for the government's demolition and debris removal of unsafe and hazardous structures at the former NYOW property was declined (USACE 1989).

While the abandoned buildings posed potential safety hazards, USACE reported in the INPR Site Survey Summary Sheet that the hazards appeared to be the result of the absence of maintenance over time.

The INPR Site Survey Summary Sheet further indicated that complete demolition and removal of the tanks was necessary to prevent further leaching of the acid into the groundwater, rather than cleaning the tanks (USACE 1991).

Follow-up groundwater sampling was recommended (USACE, 1991; 1992a).

According to the INPR Site Survey Summary Sheet, there is hazardous waste eligible for cleanup under DERP-FUDS, under the categories of HTRW and Containerized Hazardous, Toxic and Radioactive Waste (CON/HTRW). The two potential FUDS projects identified in the Site Survey Summary Sheet (USACE, 1991) included:

- HTRW – “Groundwater sampling and additional investigation to determine the extent of groundwater contamination and to propose remedial actions.”
- CON/HTRW – “Demolition and removal of the five acid tanks to prevent further leaching of the acid from the tanks into the groundwater.”

The Revised INPR Site Survey Summary Sheet (dated 02 February 1992, provided in **Appendix B**), repeated the findings (USACE, 1992b). However, a third potential FUDS project was added for ordnance and explosive waste (OEW). The type of OEW present was still unknown and should be further investigated for possible soil lead contamination by USACE, according to the revised INPR Site Survey Summary Sheet (USACE 1992b).

This contract is limited to the HTRW issues at NYOW. The CON/HTRW (C02NY029002) and OEW (C02NY029003) projects fall under the purview of the FUDS CON/HTRW and FUDS Military Munitions Response Program (MMRP) programs. According to FUDSMIS, the CON/HTRW project was closed out on 30 September 1996. The MMRP project was closed out in 2008, with the completion of the Final site Inspection Report (Alion, 2008).

Based on this review, discussions during the Technical Project Planning (TPP) Meeting held on 01 August 2018, and a follow-up email dated 02 August 2018 from the USACE Project Manager (PM), four Areas of Concern (AOCs) were considered eligible for the FUDS HTRW RI:

- AOC 1 – Ammonium Picrate Area;
- AOC 2 – Acid Area;
- AOC 3 – Former Landfill; and,
- AOC 4 – Bunker Area.

In the INPR, it is explicitly stated that the five open concrete acid tanks which contain acidic water were DoD owned and not beneficially reused by subsequent owners of the site (USACE, 1991). However, NYSDEC was in the process of cleaning the tanks at the time of the INPR submittal. Subsequently NYSDEC removed the tanks which constitutes remediation. Per Section 3-1.5.3.10 Restoration Already Initiated of Regulation No. 200-3-1 Environmental Quality - FUDS Program Policy dated 10 May 2004 (FUDS ER-200-3-1), if a Component has already initiated environmental restoration activities then the "Component" (the acid tanks) are ineligible. Therefore, AOC 2 - Acid Area is not included in the HTRW RI WP per a TPP Meeting held on 23 September 2019 with the USACE Project Delivery Team (PDT) and Avatar.

2.0 SITE DESCRIPTION/LOCATION

The former NYOW site is located in Onondaga County, in the Finger Lakes region of western New York state, approximately one mile northeast of the Village of Baldwinsville and approximately 13 miles north of the city of Syracuse. The site encompasses approximately 6,795 acres, and is bordered by Route 31 to the south, Smokey Hollow Road to the west, Lamson Road to the north, and the Oswego/Seneca rivers to the east. The Site Location Map is presented as **Figure 1-1**. Layout maps depicting the four AOCs and portions of land occupied by Three Rivers WMA and the Radisson Community are included as **Figure 1-2**. **Figures 2-1 and 2-2**.

2.1 Physical and Environmental Setting

Topography – The site is located in the southeastern portion of the Erie-Ontario Lowlands Physiographic Province, where several episodes of glacial ice advancement and retreat have resulted in a rolling topography characterized by the presence of drumlin hills (ellipsoidal hills of variable size and consisting of heterogenous deposits), flanked by flat-lying glacial lake plain deposits. Elevation at the site ranges from approximately 400 ft near AOC 3 and 4 to 500 ft above mean sea level (amsl) on the drumlin hill adjacent to AOC 1 (M&E, 1990).

Surface Water – The site is bordered on the east by the Seneca River which joins the Oneida River to form the Oswego River at the northeast corner of the site (**Figure 2-3**). The Oswego River

eventually drains into Lake Ontario. The site lies entirely within the Oswego River drainage basin. It is expected that approximately half of the annual precipitation becomes surface water runoff [Dames & Moore (D&M), 1981]. The local glacial lake plains are drained primarily by small streamlets which flow in a general northeasterly direction towards the Oswego River. Surface drainage is also influenced by local topography.

Groundwater – Groundwater flow direction is influenced by multiple factors, but generally flows from higher elevations to lower elevations. Groundwater elevation is measured using monitoring wells, which are constructed by drilling a borehole into the subsurface and installing steel or PVC casing from the bottom of the borehole to ground surface. Previous studies at the site determined that groundwater flows generally northeastward toward the Oswego River (Alion, 2008). Groundwater at the site is not currently utilized as a public drinking water source.

Ecology – Wildlife, typical of central New York, is present on the Three Rivers WMA and includes beaver, mink, muskrat, white-tailed deer, cottontail rabbit, bobolink, blue-winged warbler, northern harrier, bald eagle, American woodcock, ruffed grouse, wild turkey, common ribbonsnake, Jefferson salamander, and snapping turtle. Several other species of birds, mammals, and plants that may be present at Three Rivers WMA are listed as endangered, threatened, or of special concern. USACE is working with the local NYSDEC biologist to protect plants and wildlife.

Wetlands – According to the National Wetlands Inventory Map managed by the United States Fish and Wildlife Service (USFWS), there are several freshwater forested/shrub wetland and freshwater emergent wetland areas in the western portion of the site (primarily in the undeveloped areas of Three Rivers WMA). The freshwater forested/shrub wetland category consists of woody wetlands, forested swamp, or shrub bogs. Freshwater emergent wetlands are described as herbaceous marsh, fen, swale, and wet meadow (USFWS, 2018). There are several small freshwater ponds located within the Radisson Community.

2.2 Current and Future Land Use

The current and future land uses and ecological settings for the three AOCs are provided below.

- AOC 1 - Ammonium Picrate Area. The Ammonium Picrate Area is within a primarily residential area with some undeveloped land with maintained paved walkways and recreational grassy areas. Homes are not built on areas of potential contamination; however, paved walking paths and grassy areas wind between homes and wooded areas containing the old loading ramps, storage bunkers, and loading dock structures. Old concrete structures in disrepair exist in wooded areas of varying density. Terrestrial habitats, including maintained grassy areas and woodlands (eastern deciduous forest), are present. A large forested wetland is located west of AOC 1.
- AOC 2 - Acid Area. Not FUDS-eligible.

- **AOC 3 - Landfill Area.** Currently a paved parking lot for a golf course. A grassy strip with light poles runs up the middle and grassy landscaped areas surround the parking lot. Electric lines likely are at no more than 2 to 3 ft depth. Surface soils are limited to the center grassy strip and perimeter of the parking lot due to pavement. The area is paved so no ecological habitat is present at the surface. If suitable soil habitat is found within the 1-5 ft interval, select terrestrial ecological receptors will be evaluated.
- **AOC 4 - Bunker Area.** Currently located within Three Rivers WMA. NYSDEC is using several of the remaining bunkers for equipment and vehicle storage. The terrestrial habitat consists primarily of grassy fields and northern deciduous forest. Several small forested and emergent wetlands are located along the southeast border of the Bunker Area. Future use of this area is likely to remain wildlife management.

Aquatic and benthic receptors may be evaluated for any of the AOCs if the phased groundwater assessment indicates potential discharge into nearby wetlands or surface water bodies.

Land use is expected to remain unchanged in the future at each of the AOCs.

2.3 INSPECTIONS AND CLEANUP ACTIVITIES

2.3.1 Types of Constituents of Concern Present

Constituents of Concern (COCs) being evaluated as part of this investigation are a result of NYOW operations conducted while owned by the DoD. COCs can be categorized into three subsets: metals, process-related chemicals, and polycyclic aromatic hydrocarbons (PAHs).

2.3.1.1 Metals

Historical concentrations of metals (specifically arsenic, chromium, and lead) exceed current Residential and Industrial Soil Regional Screening Levels (RSLs) and Ecological Soil Screening Levels (Eco-SSLs), but fall within the range of background concentrations observed during the New York State Rural Surface Soil Survey (NYSDEC, 2005). Arsenic, chromium, and lead were also observed in groundwater at concentrations exceeding current Federal Maximum Contaminant Level (MCLs) and/or Tap Water RSLs in samples from monitoring wells in the Ammonium Picrate Area (MW-5), and Former Landfill Area (MW-8).

The chromium in soil and groundwater may have originated from the stainless steel equipment used during NYOW operations (M&E, 1990). Arsenic may be present due to use in metallic alloys. The lead is likely present due to historical use in paints by the military during NYOW Operations (M&E, 1990). The metals detected in groundwater and soil were also found in tank water, most likely leached from the process equipment or tank walls by the acidic water. Therefore, select target analyte list (TAL) metals (EPA Method 6010/6020) including arsenic, chromium, and lead, will be assessed as site COCs.

2.3.1.2 Process-Related Chemicals

Chemicals used or produced onsite during NYOW operations included 2,4-Dinitrochlorobenzene (DNCB), 2,4-Dinitrophenol (DNP), picric acid (2,4,6-trinitrophenol), sulfuric acid, nitric acid, sodium hydroxide, aqueous ammonia, and ammonium picrate (M&E, 1990). According to the 1981 D&M Report, DNP was formed in the first step of the ammonium picrate process, where DNCB (the raw material) was converted to DNP via hydrolysis. The second step was nitration of DNP to create trinitrophenol (picric acid). The third step involved the addition of ammonia to form ammonium picrate. Low levels of DNCB were detected in historical groundwater samples. DNP was analyzed during the D&M study, listed as combined 2,4- and 2,6-DNP, but quantified as 2,4-DNP. No DNP was reported in the historical groundwater samples. Neither DNCB nor DNP were detected in samples collected from the historical soil borings.

The 2,4-isomer of DNP is included in the standard Semi-Volatile Organic Compound (SVOC) list (EPA Method 8270D); however, the 2,6-isomer is not routinely analyzed by laboratories. According to the D&M Report, 2,6-DNP is "virtually inseparable from its 2,4-isomer" (D&M, 1981). Based on discussions with USACE, DNP will be assessed as 2,4-DNP in the HTRW RI.

Picric acid was detected at low concentrations, below current EPA Residential Soil RSLs, in subsurface soil. Picric acid was detected above the current EPA Tap Water RSL in a few historical groundwater samples collected from monitoring wells in the Former Ammonium Picrate Area and Former Administration Area. DNCB and 2,4-DNP (as SVOCs) and picric acid (on the explosives list) will be assessed as site COCs.

The other process-related chemicals such as sulfuric acid, nitric acid, and sodium hydroxide are readily dissolved in water; thus, will not be assessed as site COCs. Nitrate/nitrite will be assessed as potential breakdown products, but are commonly found in fertilizers applied at golf courses. Therefore, the presence of nitrate/nitrite at AOC 3 (Former Landfill), adjacent to the Radisson Greens Golf Course, may not be directly attributed to historical DoD use.

Currently there are no records pertaining to items disposed of at AOC 3 (Former Landfill); however, incidental information suggests that the landfill may contain household and office trash paint cans, stainless-steel "spiders" (e.g., equipment used to mix the ammonium picrate), and other potential manufacturing items (D&M, 1981). VOC impacts associated with the landfill will be assessed.

2.3.1.3 Polycyclic Aromatic Hydrocarbons (PAHs)

Polycyclic Aromatic Hydrocarbons (PAHs) detected in soil samples collected at Ammonium Picrate Area (Soil Sample #7), exceed current EPA Residential Soil RSLs and Eco-SSLs. However, most of the detected values fall within the range of concentrations observed during the New York State Rural Surface Soil Survey (NYSDEC, 2005). Fluoranthene was detected just above the maximum background value in one sample (Soil Sample #7). PAHs are ubiquitous in the

environment and were not identified in any of the historical documents as chemicals used by the DoD at the former NYOW. Therefore, PAHs will not be assessed as site COCs.

2.3.1.4 Mechanisms of Release and Principal Routes of Migration

Potential release mechanisms for the site COCs include:

- Primary:
 - Disposal and adsorption resulting from direct releases to the ground (including spills and leaks from tanks), dumping activities, and disturbance during redevelopment and construction activities, burial of landfill wastes, including direct contact between landfill waste and groundwater in AOC 3
- Secondary:
 - Wind erosion
 - Infiltration/leaching
 - Runoff/erosion
- Tertiary:
 - Groundwater flow and discharge

There are no documented spills in the historical records for the site. However, in the absence of a documented release, it is assumed that contaminants may have spilled or leaked onto the ground from tanks and process equipment during the ammonium picrate operations at NYOW. The fate and transport of COCs that may have spilled or leaked into the environment will be addressed in the RI.

2.3.2 Potential Human Health Exposure

Below is a brief summary of the currently identified potential receptors and exposure routes. All HHRA will be performed during Phase 2, if needed based on Phase 1 exceedances of residential risk-based screening levels and background levels. These receptors will be re-visited and further refined in Phase 2. Based on Office of Solid Waste and Emergency Response (OSWER) guidance (USEPA, OSWER Directive 9355.7, 2010) and DERP-FUDS guidance (DERP management guidance, 4715.20 4.b.(5)(a)3.b.), receptors evaluated will be limited to current receptors and those associated with reasonably foreseeable future site uses. Future residential development at AOC 1 is not currently expected in potentially impacted areas. However, the PDT is reaching out to the developers and community to determine foreseeable future development plans and aid in refining the receptors for Phase 2. If future development is indicated, future residents, future commercial/industrial workers, future construction workers, and/or future utility workers may be considered at AOC 1.

Nearby Resident Using Groundwater as Drinking Water (AOCs 1, 3, and 4)

A nearby resident using a domestic well for potable water could be exposed to groundwater from the Site. Exposure pathways would include ingestion of groundwater and dermal contact with groundwater (while showering or bathing), inhalation while showering, and vapor intrusion.

Utility Worker (AOC 3)

Underground utilities are common in residential and commercial areas, and often are located around roads and the areas between the roads and buildings. A utility worker could be exposed on a short-term basis to surface and subsurface soil at areas surrounding the former landfill at AOC 3. Exposure routes could include incidental soil ingestion, dermal contact with soil, and inhalation of dust emissions released from soil.

On-Site Recreational Visitor (AOC 1)

An on-site recreational visitor could be exposed to surface soil while visiting the Ammonium Picrate Area (AOC 1). It is assumed that exposure is occurring now at AOC 1 and will continue to occur in the future at AOC 1 (no changes to site use). Soil exposure pathways would include incidental ingestion, dermal contact, and inhalation of dust emissions released from soil.

On-Site Adolescent Trespassers (AOC 1)

Adolescent Trespassers in the wooded areas of the Ammonium Picrate Area (AOC 1) could encounter site surface soil as part of their typical outdoor activities. Soil exposure pathways could include incidental ingestion, dermal contact, and inhalation of dust emissions released from soil.

Outdoor Maintenance Worker (AOCs 1, 3, and 4)

An outdoor maintenance worker could encounter site surface soils as part of their typical outdoor maintenance or landscaping activities. Employees are assumed to spend the majority of their 8-hour workday outdoors with exposure to DoD-related chemicals through incidental ingestion of surface soils, dermal contact with soils, and inhalation of airborne DoD-related chemicals because of wind erosion. Maintenance workers at AOC 4 would be visiting grassy areas between bunkers as well as the apron areas, thus their area of activity is greater than the expected impacted area. Those grassy areas are not likely to have any constituents of concern, so no sampling is planned there.

2.3.3 Potential Ecological Exposure

Suitable terrestrial habitat was visually observed at AOCs 1 and 4. Direct exposure to surface soil in those AOCs will be evaluated for the vegetative community and soil in faunal invertebrate community using soil screening values. Indirect exposure to bioaccumulative COCs in surface soil will also be evaluated using soil screening values based on food chain modeling for representative avian and/or mammalian receptors. Subsurface soils (1-5 ft interval) will also be evaluated for potential impacts to plants and soil invertebrates, provided suitable soil habitat conditions are present.

Based on the preliminary assessment activities, if a release occurred, then further investigation will be completed.

2.3.4 History of Studies Conducted

The most comprehensive environmental investigations conducted at the former NYOW were completed by D&M in 1981 and M&E in 1989. D&M collected 20 subsurface soil samples, 18 groundwater samples, and three surface water samples from wastewater ditches at the site and analyzed the samples for 2,4,6-trinitrophenol (picric acid), 2,4-DNP, 2,6-DNP, and 2,4-DNCB. Based on a comparison to current criteria, the concentrations of picric acid in soil and groundwater are below current RSLs.

M&E collected eight groundwater samples, 12 surface soil samples, six surface water samples from wastewater ditches, seven tank liquid samples, and 10 wipe samples and analyzed for volatile organic compounds (VOCs), SVOCs, total metals, nitrate, picric acid, DNCB, and pesticides/polychlorinated biphenyls (PCBs) (wipes only). In groundwater, chromium and lead exceeded Federal MCLs and New York State Groundwater Standards (based on 1987 criteria); whereas, chromium, lead, and arsenic exceed current MCLs and Tap Water RSLs. In soil, nitrates were detected below 1987 and current criteria at all locations; the action level for total SVOCs was exceeded in one sample collected from the Ammonium Picrate Area. Arsenic, chromium, and lead concentrations exceed at least one of the current comparison criteria (Residential RSLs, Industrial RSLs, or Eco-SSLs) in most of the soil samples. Due to the significant amount of redevelopment and earth moving within the Radisson Community, surface soil may not be representative of historical site conditions.

No compounds were detected in the M&E surface water samples collected from the wastewater ditches. Phenol was detected below reference criteria and arsenic, cadmium, chromium, and lead were detected above comparison criteria in the water sample from Tank #2.

Investigation Reports

The following investigation reports have been generated thus far for NYOW:

- Dames & Moore (D&M), 1981. *Evaluation of Possible Hazards of Former New York Ordnance Works, Radisson New Community, Town of Lysander, New York*. Prepared for the Urban Development Corporation and the New York State Department of Health.
- Metcalf & Eddy (M&E), 1990. *Defense Environmental Restoration Program, Contamination Evaluation at the Former New York Ordnance Works, Lysander, New York*. Volumes I and Volume II. Prepared for the Department of the Army, Kansas City District, Corps of Engineers. Final Report. [FUDS Document No. C02NY029001_01.09_0002_a]
- O'Brien and Gere Engineers, Inc, 1993. *Radisson New Community Acid Area Clean-up Project, Surface Debris Investigation. Letter Report*.

- Alion Science and Technology Corporation (Alion), 2008. *Final Site Inspection Report for New York Ordnance Works, DERP FUDS Project Number C02NY029003*. Prepared for the US Army Engineering and Support Center in Huntsville and USACE Baltimore District. Contract Number W912DY-04-D-0017, Task Order #00170001.

2.3.5 Lead Agency for the Cleanup

USACE is the lead agency for the investigation, clean up and closure of the site. However, USACE will actively and continually seek NYSDEC and NYSDOH concurrence. Contact information for both agencies is provided in Appendix E.

3.0 COMMUNITY BACKGROUND

NYOW is located within the town of Lysander, New York. More specifically, the site is located within Three Rivers WMA, the Radisson Community, and Town of Lysander property. The Three Rivers WMA is non-residential and serves as a habitat for a variety of wildlife and to permit compatible public uses of the land. A map of the Three River WMA is included in Figure 2-1. The Radisson Community is a planned community of homes and businesses. A map of the Radisson Community is included as Figure 2-2.

3.1 COMMUNITY PROFILE

The Radisson Community, when complete, will have nearly 3,500 homes, a large Corporate Park and wide range of recreational, educational and community services. It is located a short distance to the Village of Baldwinsville and is in the Baldwinsville Central School District. Presently, Radisson is about 80% complete. The 3,500 home community plans to support a population of up to 10,000 people. It is located within the town of Lysander, NY, and confined on the east by the Seneca River, on the north and west by the New York State Wildlife Management Area, and on the south by New York State Route 31.

Lysander, NY has a population of about 22,000 people and encompasses 61.7 square miles. The median household income from 2013 to 2017 was \$79,625. As of 2012, there are 1,316 businesses located in Lysander.

3.2 HISTORY OF COMMUNITY INVOLVEMENT

One fact sheet, prepared by USACE in 2006, was found in the FUDS database. Records do not show how or if it was distributed. The fact sheet is provided in Appendix D.

3.3 KEY COMMUNITY CONCERNS

Citizens of the surrounding community have not submitted any concerns regarding NYOW to USACE. However, USACE will be seeking feedback from citizens on what their concerns may be.

Sources of feedback could include interviews with town officials such as the town Supervisor and the Radisson community Executive Director. Community concerns could likely include:

- Health concerns from recreational activities at the Three Rivers WMA and Radisson Community trails due to exposure to COCs in soil and sediment/surface water, respectively.
- Health concerns from daily activities within the Radisson community due to exposure to COCs in soil.
- Protection of wellhead and drinking water sources.

3.4 RESPONSE TO COMMUNITY CONCERNS

At the date of publication of this document, no community concerns have been communicated to USACE.

3.5 SUMMARY OF COMMUNICATION NEEDS

USACE's overall objective is to encourage the public participation in the site investigation and cleanup process. This CRP has been developed to provide mechanisms for the public to become aware of the site conditions and the USACE's activities to identify and address contamination and safety issues associated with site conditions. USACE's main tools in conveying the status of the investigation and cleanup process to the public will be maintaining the Information Repository as discussed in Section 4.2.2 and communication with stakeholders.

4.0 USACE PUBLIC INVOLVEMENT PROGRAM

4.1 OBJECTIVES

The overall goal of USACE's Public Involvement Program is to promote communication among USACE, residents, the NYSDEC, and the NYSDOH and to provide opportunities for meaningful and active involvement by the community in the cleanup process. USACE will keep local residents, officials, USFWS and other stakeholders that may emerge informed in a timely manner of actions being taken at NYOW, and will provide all parties an opportunity to review and comment on studies being conducted and on proposed remedial or removal response alternatives and decisions. USACE will identify and deal responsively with public concerns. An overview of the community relations activities to be performed, at a minimum, is shown in Table 4-1 on Page 16.

The USACE Project Manager will implement the community involvement activities described below. Contact information is provided in section 4.2.1.

4.2 COMMUNITY INVOLVEMENT ACTIVITIES

4.2.1 Point of Contact

- Objective: To provide a primary liaison between the community and the USACE, and to ensure prompt, accurate, and consistent responses, and information dissemination about NYOW.
- Method: The USACE Project Manager, Erin Kirby, is the designated Community Involvement Coordinator and serves as a point of contact for the public and the news media. Ms. Kirby's contact information is as follows:

U.S. Army Corps of Engineers – New England District
696 Virginia Road
Concord, MA 01742-2751
Contact: Erin Kirby
(978) 318-8147
Erin.kirby@usace.army.mil

Table 4-1: Public Involvement Activities for CERCLA Remedial Responses

Remedial Phases	RI/FS				RD	RA-C	RA-O	LTM	PCO
Public Involvement Activities	RI	FS	PP	ROD/DD	RD	RA-C	RA-O	LTM	Close-out
Contact local officials	✓	✓	✓	✓	✓	✓	✓	✓	✓
Contact property owners	✓	✓	✓	✓					
Community Relations Plan (CRP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Establish Information Repository and inform public	✓	✓	✓	✓					
Initiate and maintain the Administrative Record file	✓	✓	✓	✓					
Fact Sheets			✓		✓	✓			✓
Public Notice			✓	✓					
Public Meeting (Note 1)			✓						
Public Comment Period (30 – 60 days)			✓						
Responsiveness Summary			✓						
Revise Proposed Plan (Note 2)			✓						
Second Comment Period (30 – 60 days) (Note 2)			✓						
Revise CRP	✓	✓	✓	✓	✓	✓	✓	✓	
<p>1. An opportunity for a public meeting is required at the Proposed Plan (PP). A transcript of the public meeting must be developed and made available to the public.</p> <p>2. Revise Proposed Plan (PP) and provide a second comment period if significant changes are made regarding proposed FUDS project activities prior to the Record of Decision/Decision Document (ROD/DD) and those changes could not have been reasonably anticipated by the public.</p> <p>RI= Remedial Investigation; FS = Feasibility Study; PP = Proposed Plan; ROD/DD = Record of Decision/Decision Document; RD = Remedial Design; RA-C = Remedial Action-Construction; RA-O = Remedial Action-Operations; LTM = Long Term Management; PCO = Project Closeout</p> <p>✓ = Required</p>									

4.2.2 Information Repository

- Objective: To provide a convenient location where residents can go to read and copy official documents and other pertinent information about the site and USACE activities
- Method: The information repositories contain all work plans and reports for all remedial activities at the NYOW Site. All of this information is available for public review. New documents are added when they become final. The information repositories are at the following locations:

U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742-2751
Contact: Erin Kirby
Phone: (978) 318-8147

Baldwinsville Public Library
33 E Genesee St.
Baldwinsville, NY 13027
Phone: (315) 635-5631

4.2.3 Administrative Record

- Objective: To provide documentation used to form the basis for selecting the response action.
- Method: USACE maintains an administrative record for all remedial activities, including work plans, reports and other documents used to support decision-making at the site. The administrative record will be filed according to chapter 4 paragraph 16 of the EP-200-3-1 and is available at the addresses below.

U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742-2751

Contact: Erin Kirby
Phone: (978) 318-8147

4.2.4 Coordination with Stakeholder Regulatory Agencies

- Objective: To provide the stakeholder agencies with up-to-date information about existing conditions, remedial activities, and schedules pertaining to NYOW.
- Method: Draft documents will be mailed to appropriate state and local authorities, along with requests for comments, if applicable. Final documents will be provided when completed.

USACE will also provide written responses to appropriate state and local authorities' comments along with final project documents.

USACE will ensure that the appropriate state and local authorities receive prompt notice of any proposal to carry out a response action at NYOW, as well as notice of the initiation of any response action and the commencement of each distinct phase of such activities. USACE will also provide copies of NYOW documents to Regulatory Agencies in a timely manner, including, but not limited to, project management plans, work plans, scopes of work, sampling and analysis plans, investigation and study reports, decision documents, or action memoranda.

4.2.5 Fact Sheets/News Releases

- Objective: To provide citizens with current, accurate, easy-to-read, easy-to-understand information about NYOW.
- Method: Fact sheets will be made available to the media, stakeholders (area residents, members of citizens groups, regulatory officials, elected and civic officials), and the information repositories when events warrant. At a minimum, fact sheets will be distributed in accordance with Table 4-1 via mail, prior to any public meetings, and to describe the proposed plan. Examples are available in Appendix D. (USACE 2011)

4.2.6 Public Notices

- Objective: To provide citizens with current information about site conditions and remedial activities at NYOW.
- Method: Per Table 4-1, notices of availability of key milestone documents will be published, at a minimum, in the local daily newspaper (see Appendix B).

4.2.7 Community Survey

- Objective: To understand the concerns, opinions, and recommendations of the community about the Former New York Ordnance Works. The results of this survey will be used to update the Community Relations Plan to better communicate with the community about the ongoing project at the Former New York Ordnance Works.
- Method: A community survey will be performed to identify issues, concerns, opinions, and recommendations from the community about the site. The survey will be made available to the community at the information repository, Baldwinsville public library and through public officials. (Appendix A).

4.2.8 Public Comment Periods

- Objective: To give community members an opportunity to review and comment on various documents relating to remedial activities at NYOW. This provides the citizens with

meaningful involvement in the process and also provides the NYOW Response Team with valuable information for use in making decisions.

- Method: USACE will announce each comment period separately, in accordance with Table 4-1. Announcements will appear in local newspapers (see Appendix B) and USACE fact sheets; they will include particulars on duration, how to make comments, where to submit comments, etc.

4.2.9 Public Meetings

- Objective: To update the community on site developments and address community questions, concerns, ideas, and comments.
- Method: USACE will schedule, prepare for, and attend all announced meetings. USACE will provide at least two weeks' notice of scheduled meetings. The USACE Project Manager and other appropriate staff will attend. A public meeting is required during all public comment periods. USACE will hold public meetings as outlined in Table 4-1. USACE will provide details of public meetings to local officials (Appendix C and E) via mail.

4.2.10 Conduct Special Events

- Objective: To educate citizens, highlight a major event or milestone, or recognize significant citizen activity.
- Method: A public meeting will be held as part of development of the Proposed Plan. . USACE will provide details of public meetings to local officials (Appendix E) via mail.

4.2.11 Responsiveness Summaries

- Objective: To summarize comments received during comment periods, to document how the USACE has considered those comments during the decision-making process, and to provide responses to major comments.
- Method: USACE will prepare a Responsiveness Summary as a section of documents such as the Proposed Plan and the Decision Document. The Responsiveness Summary will include four sections: (1) Overview; (2) Background on Community Involvement; (3) Summary of comments received and USACE responses; (4) Remedial Design/Remedial Action concerns. All information, both technical and non-technical, will be conveyed in a manner that is easily understood. USACE will issue the Responsiveness Summary following public comment periods.

4.2.12 Mailing List Updates

- Objective: To facilitate the distribution of site-specific information to everyone who needs or wants to be kept informed about the site.
- Method: USACE will maintain a mailing list that includes NYSDEC, NYSDOH, Town of Lysander, Radisson Community, USFWS, and other stakeholders as found in Appendix E.

4.2.13 Provide Technical Assistance Services to Communities (TASC) Information

- Objective: If requested by community groups, USACE will provide information so that community groups can hire technical advisors to assist them in interpreting technical information about NYOW.
- Method: If there is sufficient community interest, USACE will provide information about the Technical Assistance for Public Participation (TAPP) program at public meetings and in NYOW fact sheets. USACE will provide information regarding TAPP to the community as requested.

4.2.14 Formation of a Restoration Advisory Board

- Objective: To provide stakeholders with a way to become actively involved in environmental restoration activities associated with DERP, including MMRP and HTRW.
- Criteria: USACE will establish a Restoration Advisory Board (RAB) for response actions if the District Commander determines there is sufficient, sustained community interest. Such interest is evidenced by any one of the following: a) the installation is closing and transferring the property to the community; b) Fifty local citizens sign a petition requesting that a RAB be formed; c) Federal, state, tribal, or local government representatives request that a RAB be formed; or, d) the PDT recommends that a RAB be established.
- Establishment: A selection panel made up of diverse community members, DoD regulatory officials, and local government leaders will recommend the community member who will serve on the RAB. Members of the selection panel may not serve as RAB members. USACE will respond to any requests for help to form a RAB. USACE will provide information to the community throughout the NYOW investigation and cleanup process.

4.2.15 Revise the Community Relations Plan

- Objective: To update the CRP to reflect any changes in the site with respect to stakeholders' concerns, proposed actions, etc. and to ensure that the plan remains responsive to community concerns throughout the NYOW investigation and cleanup activities.

- Method: USACE will revise the CRP as appropriate if significant changes occur with respect to the site. The CRP will be reviewed at each point indicated in Table 4-1 to ensure that the procedures outlined in the initial plan are still applicable.

5.0 REFERENCES

- Alion Science and Technology Corporation (Alion), 2008. Final Site Inspection Report for New York Ordnance Works, DERP FUDS Project Number C02NY029003. Prepared for the US Army Engineering and Support Center in Huntsville and USACE Baltimore District. Contract Number W912DY-04-D-0017, Task Order #00170001.
- Dames & Moore (D&M), 1981. *Evaluation of Possible Hazards of Former New York Ordnance Works, Radisson New Community, Town of Lysander, New York*. Prepared for the Urban Development Corporation and the New York State Department of Health.
- Metcalf & Eddy (M&E), 1990. *Defense Environmental Restoration Program, Contamination Evaluation at the Former New York Ordnance Works, Lysander, New York*. Volumes I and Volume II. Prepared for the Department of the Army, Kansas City District, Corps of Engineers. Final Report. [FUDS Document No. C02NY029001_01.09_0002_a]
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- NYSDEC, 1993. *Operation and Maintenance Plan for the Three Rivers Pesticide Storage Site, Lysander, Onondaga County, Site No. 7-34-018*.
- NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. Division of Water Technical and Operations Guidance Series (1.1.1).
- NYSDEC, 2005. Concentrations of Selected Analytes in Rural New York State Surface Soils: A Summary Report on the Statewide Rural Surface Soil Survey. Provided in Appendix D to the *New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document*. Prepared by NYSDEC and New York State Department of Health in September 2006.
- NYSDEC, 2018a. Environmental Site Remediation Database Search Details for Federal Government Facility – Picric Acid Site, Site Code: 734003. <https://www.dec.ny.gov/cfm/externalapps/derexternal/index.cfm?pageid=3>.
- NYSDEC, 2018b. *Habitat Management Plan for Three Rivers Wildlife Management Area 2018-2027*. Prepared by the Division of Fish and Wildlife, Bureau of Wildlife, March 2018. https://www.dec.ny.gov/docs/wildlife_pdf/yfithreerivershmp.pdf
- NYSDEC, 2018c. Three Rivers Bird Conservation Area. <https://www.dec.ny.gov/animals/32035.html>.

- NYSDEC, 2018d. List of Endangered, Threatened and Special Concern Fish & Wildlife Species of New York State. <https://www.dec.ny.gov/animals/7494.html>
- NYSDEC, 2018e. New York Nature Explorer Town Results Report, Lysander, New York. www.dec.ny.gov/natureexplorer.
- O'Brien and Gere Engineers, Inc, 1993. *Radisson New Community Acid Area Clean-up Project, Surface Debris Investigation. Letter Report.*
- Pagano, Timothy S., Terry, David B., and Ingram, Arlynn W., 1985. Geohydrology of the Glacial-Outwash Aquifer in the Baldwinsville Area, Seneca River, Onondaga County, New York. USGS Water Resources Investigations Report 85-4094. Plates 1 to 6.
- Radisson, 2017. Factsheet: Empire State Development: Radisson Community Project. <https://esd.ny.gov/radisson-community-project>.
- USACE, 1981. Memorandum for Commander, Kansas City District, Subject: Report on Records Search of New York Ordnance Works. 13 March 1981. [FUDS Document No. C02NY029001_01.06_0006_p]
- USACE, 1985. Determination and Findings of Fact, New York Ordnance Works, Lysander, New York, Project No. C02NY002900.
- USACE, 1989. Letter to the Radisson Community Association from USACE New York District, Real Estate Division, Regarding Eligibility for Demolition and Debris Removal. Dated 06 December. [FUDS Document No. C02NY029001_08.01_0001_p]
- USACE, 1991. Memorandum for Commander, North Atlantic Division, Subject: DERP-FUDS Inventory Project Report for Site No. C02NY029000, New York Ordnance Works, Lysander, NY. Prepared by the Department of the Army, New York District, Corps of Engineers, New York, NY. 18 October 1991. [Enclosure to FUDS Document No. C02NY029002_01.08_0009_a]
- USACE, 1992a. Memorandum for Commander, Missouri River Division, Department of the Army Headquarters USACE, and Huntsville Division, Subject: DERP-FUDS Inventory Project Report for Site No. C02NY029000. Prepared by the Department of the Army, North Atlantic Division, Corps of Engineers, New York, NY. 03 January 1992. [FUDS Document No. C02NY029002_01.08_0009_a]
- USACE, 1992b. Site Summary Sheet (Revised) for DERP-FUDS Site No. C02NY029000, New York Ordnance Works, Lysander, New York. 02 February 1992. [FUDS Document No. C02NY029001_01.08_0011_a]

USACE, 2004a. Environmental Quality - Formerly Used Defense Sites (FUDS). ER 200-3-1. U.S. Army Corps of Engineers.

USACE, 2004b. Public Participation in the Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS). Engineer Pamphlet EP 1110-3-8. U.S. Army Corps of Engineers.

USACE, 2006. *Fact Sheet on New York Ordnance Works, Lysander, NY*. Prepared by USACE New York District. [FUDS HTRW Document No. C02NY029001_08.11_0500_p]

USACE, 2011. EP 200-3-1, *Public Participation Requirements for Defense Environmental Restoration Program*.

USEPA, 2005. Superfund Community Involvement Toolkit, EPA 540-K-05-002. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, DC. April 2005.

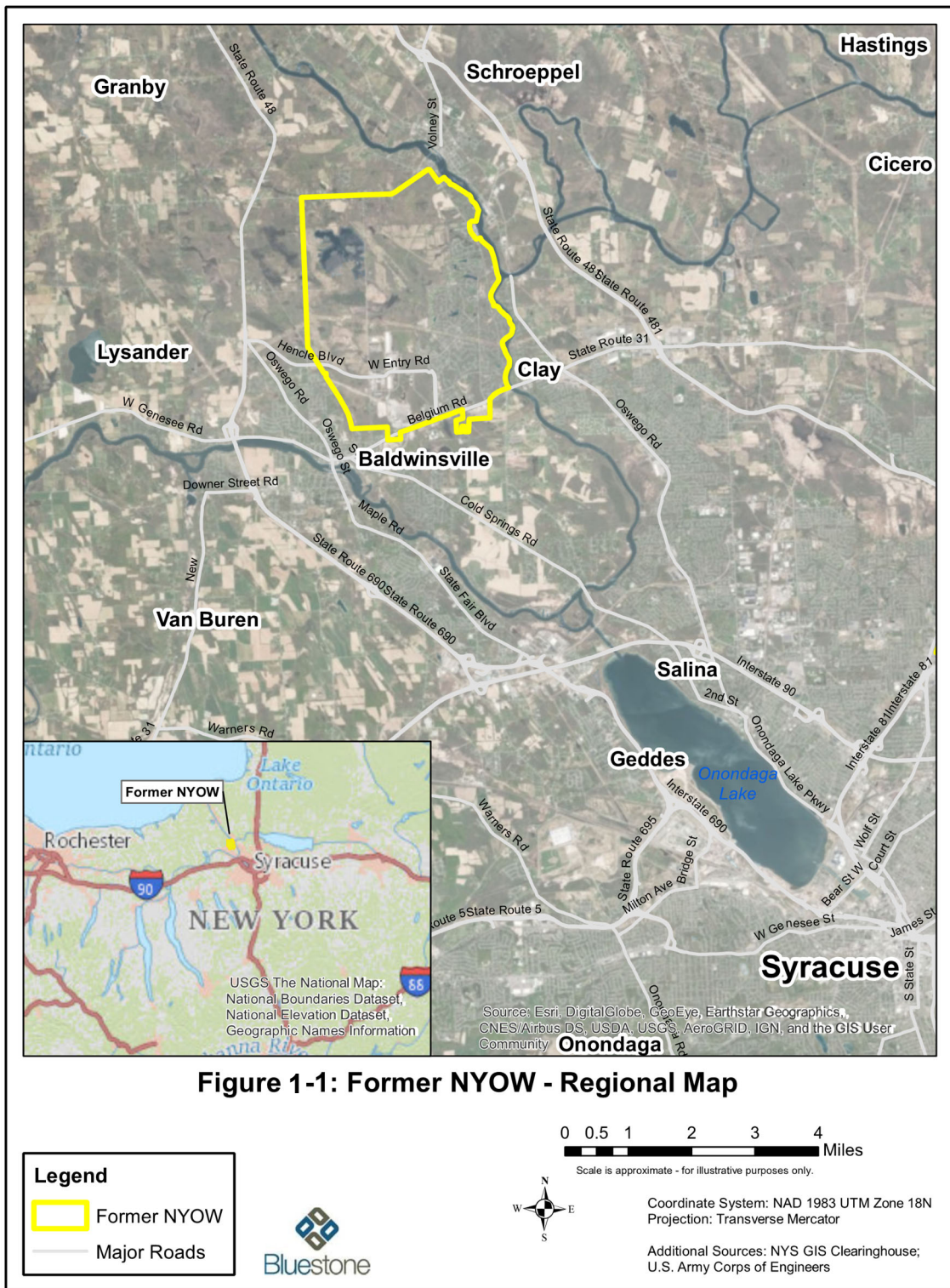
USEPA, 2005a. Superfund Community Involvement Handbook, EPA 540-K-5-003. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, DC. April 2005.

USEPA, 2010. Considering Reasonably Anticipated Future Land Use and Reducing Barriers to Reuse at EPA1721 lead Superfund Remedial Sites. (OSWER Directive 9355.7-19). U.S. Environmental Protection 1722 Agency, Office of Emergency and Remedial Response.

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FIGURES AND TABLES



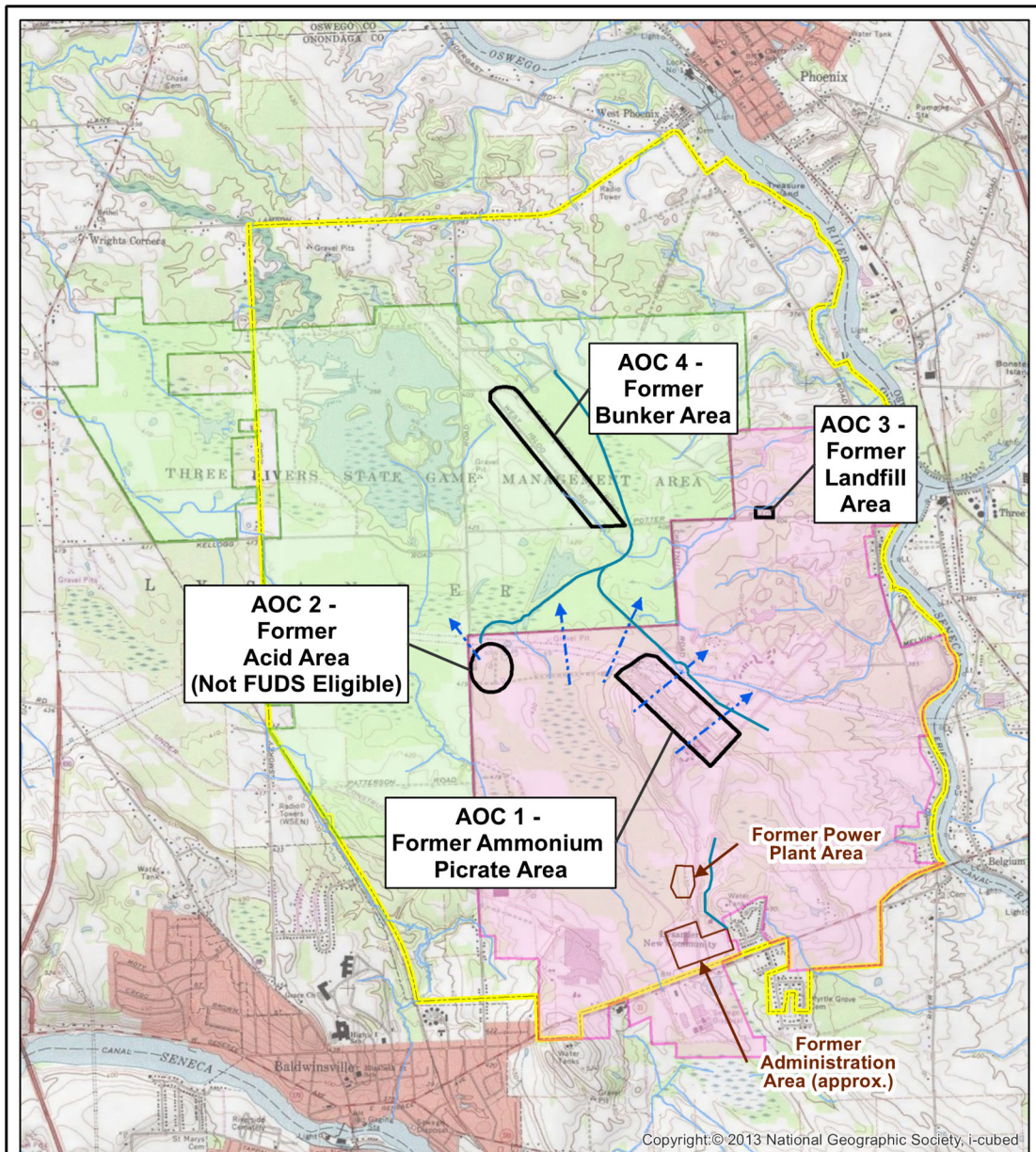


Figure 1-2: Former NYOW - Areas of Concern



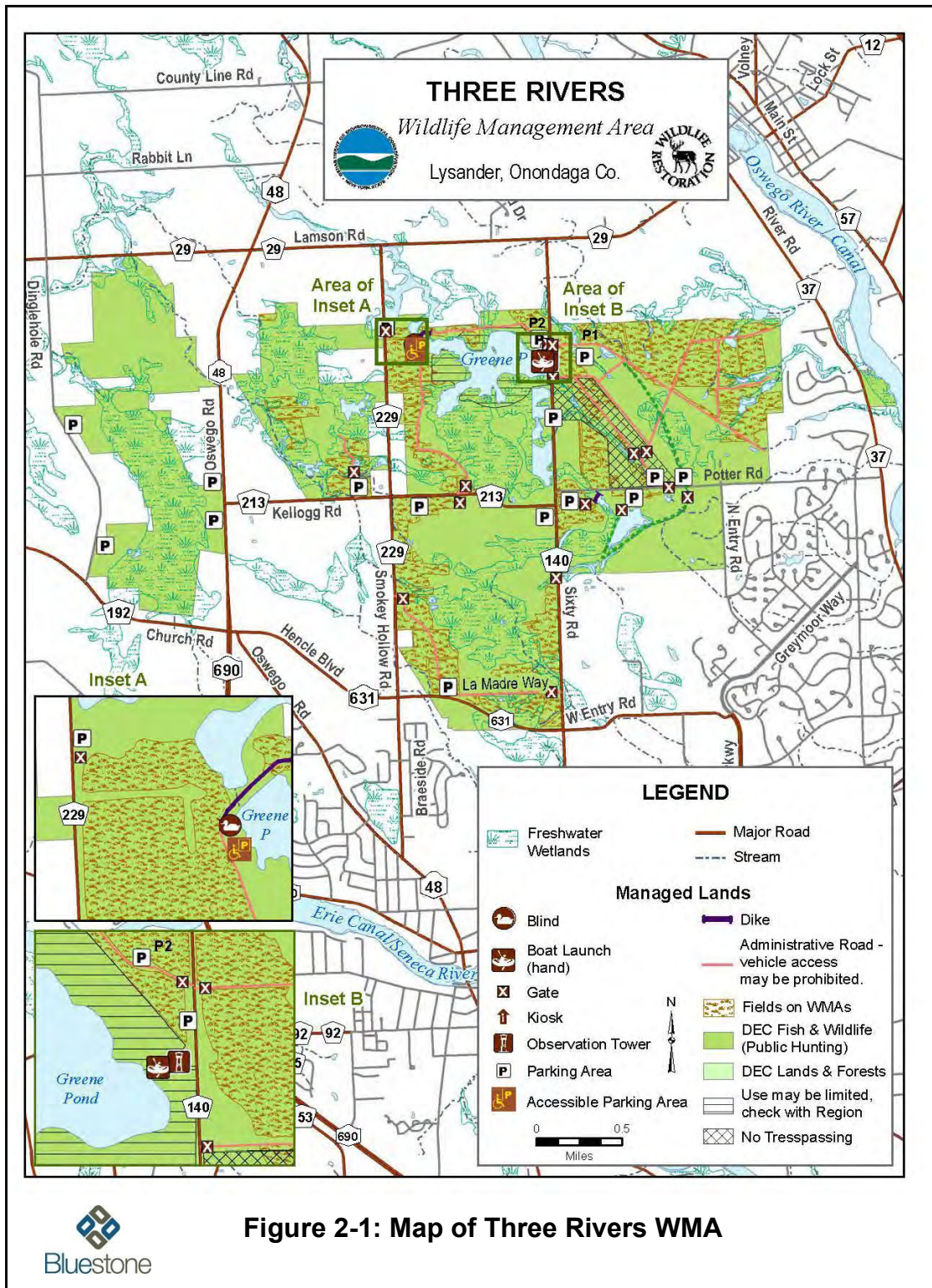
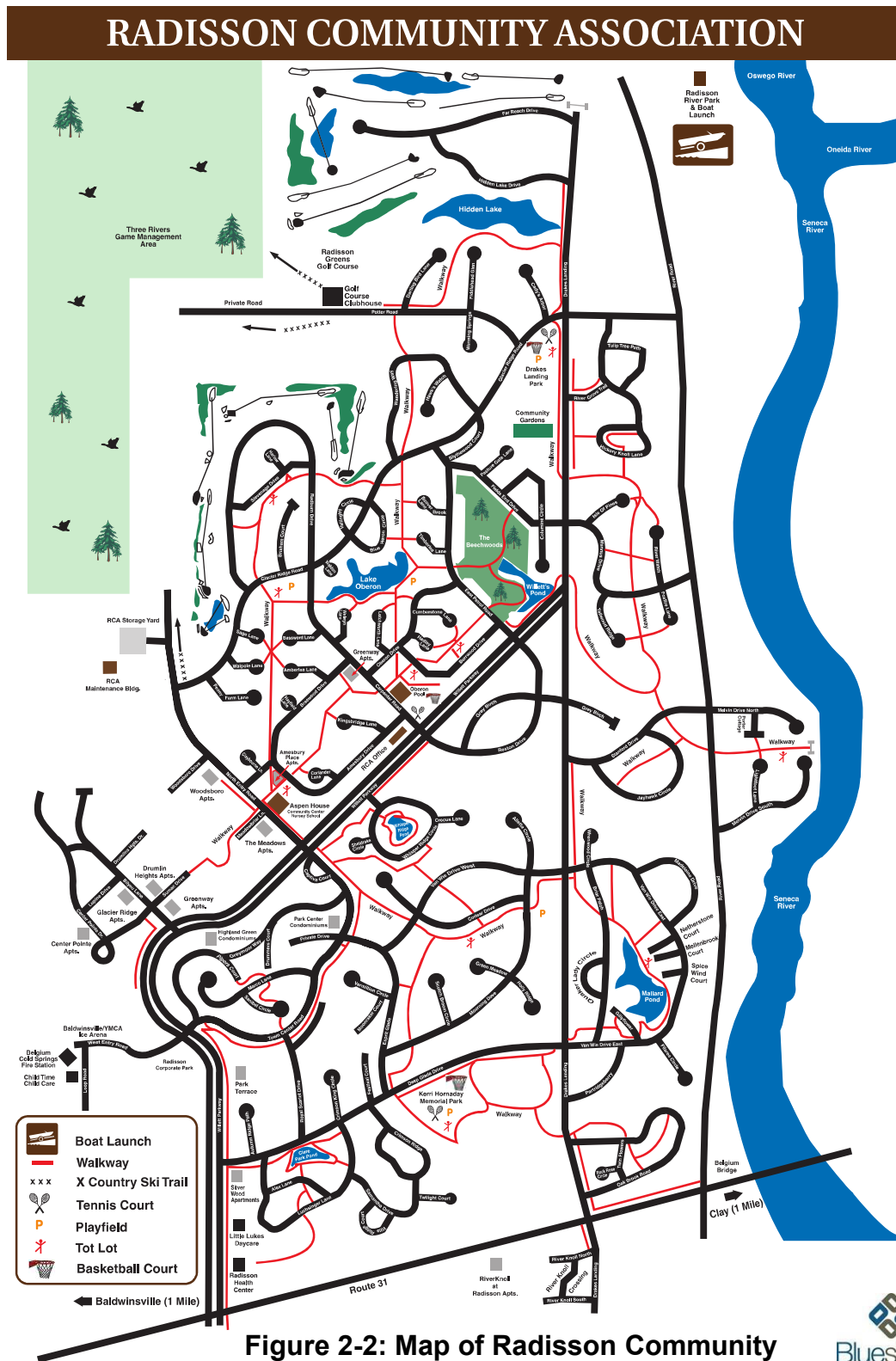


Figure 2-1: Map of Three Rivers WMA



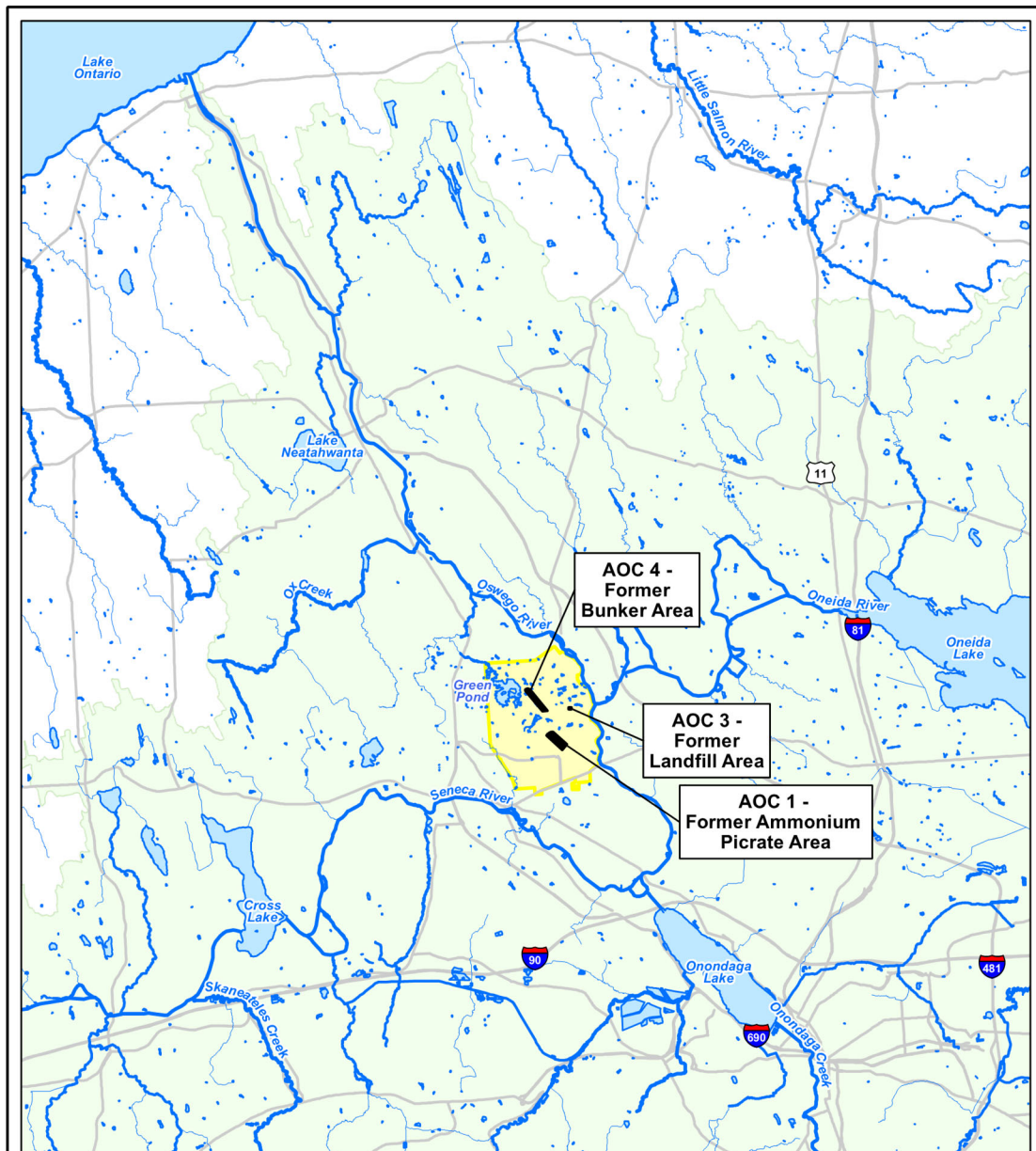


Figure 2-3: Former NYOW - Surface Water



0 2 4 8 Miles
Scale is approximate - for illustrative purposes only.

Coordinate System: NAD 1983 UTM Zone 18N
Projection: Transverse Mercator

Additional Sources: NYS GIS, 2019; U.S. Army Corps of Engineers; USGS, 2019.

*Site feature locations are approximate.



APPENDICES

Appendix A
Community Survey

**New York Ordnance Works Formerly Used Defense Site
Community Survey**

Date: _____

Purpose:

The purpose of this survey is to understand the concerns, opinions, and recommendations of the community about the Former New York Ordnance Works. The results of this survey will be used to update the Community Relations Plan to better communicate with the community about the ongoing project at the Former New York Ordnance Works.

Background:

The United States Army Corps of Engineers, New England District (USACE) is conducting a Remedial Investigation (RI) at Former New York Ordnance Works (NYOW) in Onondaga County, New York. This work is being completed under the Defense Environmental Restoration Program (DERP)-Formerly Used Defense Sites (FUDS) program.

A Public Involvement Program was developed to facilitate communication among the communities surrounding the site, USACE, the New York State Department of Environmental Conservation (NYSDEC), and the New York State Department of Health (NYSDOH) and to encourage community involvement in the process. USACE will utilize the community feedback ensure that residents are continually informed and provided opportunities to be involved.

Survey:

A. Interactions with USACE:

1. Have you previously contacted USACE about Former New York Ordnance Works?
Yes___No___
2. How would you rate USACE efforts to keep the community informed about the site?
Please rate on a scale of 1-10, where 1 is "poor" and 10 is "excellent":

B. Project Knowledge:

1. How long have you lived near Lysander, NY?
Answer:
2. Have you previously received information about the environmental projects at the site from USACE?
Answer:
3. Have you received information from other sources? Yes___No___

- a. If so, who/where?

Answer:

4. What do you know about the Former New York Ordnance Works FUDS project overall (history, past activities, current efforts)?

Answer:

5. Do you understand the roles of the federal and state agencies involved with the project? Yes___No___

6. What are the concerns of the community related to the project?

Answer:

7. What are your concerns related to the project?

Answer:

8. How would you rate the level of concern in the community? Please rate on a scale of 1-10, where 1 is “no concern” and 10 is “very concerned”:

9. How would you rate your level of concern? Please rate on a scale of 1-10, where 1 is “no concern” and 10 is “very concerned”:

C. Access to Information:

1. How would you go about accessing information about the site?

Answer:

Are you interested in obtaining more information about the site? Yes___No___

- a. If so, what topics would you like to obtain more information?

Answer:

2. How would you prefer to be kept informed about new information about the site?

Answer:

3. What frequency would you prefer to receive information about the site?

Answer:

D. Community Involvement:

1. Would you like to be more involved in the project in addition to receiving information updates? Yes___No___

- a. If so, how would you like to be more involved?

Answer:

2. What is the best way to involve community and your participation?

Answer:

3. Do you have any recommendations for additional methods to reach out to the community?

Answer:

4. What day of the week and time of day is best to hold community meetings/open houses?

Answer:

5. What are the best locations to hold community meetings?

Answer:

6. Final documents on the project will be available for the public to review at the Baldwinsville Public Library. Would you prefer to view the documents electronically or in hard copy?

Answer:

7. Who else in the community would you suggest we speak with about the project?

Answer:

8. Do you have any other comments, questions, or concerns about the Spring Valley FUDS project?

Answer:

Appendix B
Media Contact List

Local Television Stations

WTVH CBS
Syracuse, NY
Phone: (315) 477-9400

WSTM-TV NBC
12 Brewer Road
Syracuse, NY
Phone: (315) 477-9400

Radio Stations

88.3 FM WAER
795 Ostrom
Syracuse, NY 13244-4610
Phone: (315) 443-4021

101.3 FM 570 WYSR
500 Plum Street, Suite 400
Syracuse, NY 13204
Phone: (315) 474-6397

Newspapers

The Post-Standard
220S. Warren St.
Syracuse, NY 13202
Phone: (315) 470-2265
citynews@syracuse.com
President: Timothy R. Kennedy

Online Newspaper

Eagles Newspapers
2501 James St. Suite 100
Syracuse, NY 13206
(315) 434-8889
<https://www.eaglenewsonline.com/pubs/baldwinsville-messenger/>

Appendix C
Potential Meeting Locations

A meeting room is available in the Baldwinsville Public Library as well as the Radisson Community Association. If a meeting is scheduled, the USACE Project Manager will determine the availability, size, and accessibility of public meeting rooms in nearby towns if necessary.

Radisson Community Association
3128 Amesbury Dr.
Baldwinsville, NY 13027
Phone: (315) 635-7171

Baldwinsville Public Library
33 E Genesee St.
Baldwinsville, NY 13027
Phone: (315) 635-5631

Appendix D
Public Involvement Tools

APPENDIX C

Sample RAB Public Notice

Public Notice

(Name of U.S. Army Corps of Engineers (USACE) District)
Formation of Restoration Advisory Board (RAB)
Membership Solicitation

The Department of the Army recognizes the importance of stakeholder participation in the Defense Environmental Restoration Program. Therefore, *(name of district)* is announcing the establishment of a RAB. The RAB is being created in order to improve public participation by involving the community in the environmental restoration of the property at *(name of property)*.

The RAB will include community members who reflect the diverse interests of the local community. RAB members will be asked to review and comment on plans and technical documents relating to the ongoing environmental studies and restoration activities at *(name of property)*. RAB members will have the opportunity to provide comments that may accelerate the restoration. Members will also be expected to serve as voluntary liaison between the community and the USACE district and be available to meet with community members and/or groups. Community RAB members will receive no compensation for their service. RAB meetings will be open to the public.

Community interest forms can be obtained by contacting:
(List name(s), title, address, and telephone number of contact)

Members will be expected to serve a 1- to 2-year term and attend RAB meetings regularly. Forms will be reviewed by the selection panel. The selection panel will make recommendations to the district Commander for approval of RAB members. The selection panel members will be representatives from the *(name of district)*, the *(name of state environmental agency)*, the community, and the U.S. Environmental Protection Agency, as appropriate. To qualify, interested parties must be local residents of *(name of cities or counties)* who are affected by *(name of property)*.

The initial meeting to form the RAB will be held *(list location, date, and time)*. For additional information, please contact *(name, address, and telephone number of contact)*.

APPENDIX D

Sample RAB Community Interest Form

Community Interest
(*Name of Property*) Restoration Advisory Board (RAB)

RAB members are volunteering to serve a 1-to 2-year term and to attend all RAB meetings. Duties and responsibilities will include reviewing and commenting on technical documents and activities associated with the Defense Environmental Restoration Program at (*name of property*). Technical experts will be made available to the RAB. Members will be expected to be available to community members and groups in order to facilitate the exchange of information and/or concerns between the community and the RAB. RAB community members can expect to devote approximately (*number of hours/days*) per year to the RAB. RAB members will receive no compensation for their service.

Priority for RAB membership will be given to local residents who are impacted/affected by the (*name of property*).

Name:

Address:

Street	Apt #	City	State	Zip
--------	-------	------	-------	-----

Phone:

() _____ () _____ () _____
Daytime Home Fax

1. Are you affiliated with any group related to environmental restoration activities? If yes, list the group and your position, if applicable.

2. Briefly state why you would like to participate on the RAB.

3. What experience have you had working as a member of a diverse group with common goals?

4. The community co-chairperson will be selected by community members of the RAB. Please indicate whether or not you are interested in being considered for the community co-chairperson position on the RAB.

_____ Yes, I would like to be considered.
_____ No, I would not like to be considered.

5. Are you willing to serve as a volunteer on the RAB?

_____ Yes, I am willing to serve as a volunteer.
_____ No, I am not willing to serve as a volunteer.

6. By submitting this form, you are indicating that you are aware of the time commitment which this appointment will require of you.

Privacy Act Statement

Authority: 10 U.S. Code (USC) 2705.

Principal Purpose: To identify members of the local community who are interested in serving on the RAB. The requested information will be used to develop a list of interested persons from which the community members of the RAB will be selected. The information will also be used by the Army to contact the individuals who are selected. Disclosure of the requested information is voluntary. Failure to provide all the requested information may prevent selection to serve on the RAB.

Applicant Signature

Date

APPENDIX E
Sample RAB Letter of Invitation

Dear (*Community Member*):

The Department of the Army recognizes the importance of stakeholder participation in the Defense Environmental Restoration Program. Therefore, (*name of district*) is announcing the establishment of a Restoration Advisory Board (RAB). The RAB is intended to improve public participation by involving the community in the restoration decision-making process.

The RAB will include community volunteer members who reflect the diverse interests of the local community. RAB members will have an opportunity to provide comments on restoration activities. RAB community members can expect to spend (*number of hours/days*) per year supporting the RAB.

RAB members will be asked to meet regularly to review and comment on technical documents and plans relating to the ongoing environmental studies and restoration activities at (*name of MMRP/HTRW property*). RAB members will be expected to serve as liaison with the community and be available to meet with community members and groups. Members will be expected to serve a (*state length of service*) term. All RAB meetings will be open to the public.

If you are interested in serving on the RAB for (*name of MMRP/HTRW property*), please complete the enclosed form and return it to the following address not later than (*deadline for applications*):

(*Name, address, and phone number of contact*)

Forms will be reviewed by the RAB selection panel. The selection panel will submit recommendations for RAB membership to the district Commander for approval. The RAB selection panel will be comprised of representatives from the (*name of district*), the community, the (*name of state agency*), and the U.S. Environmental Protection Agency, as appropriate.

Sincerely,

(*Name of Panel Member*)

Enclosure

APPENDIX F

Sample RAB Fact Sheet

Fact Sheet

Restoration Advisory Board

(Name and Location of MMRP/HTRW Property)

Background

The U.S. Army Corps of Engineers (USACE), *(name of district)*, is pursuing environmental restoration activities at *(name of property)* as part of the Defense Environmental Restoration Program. *(Provide a brief description of the response actions projected at the MMRP/HTRW property.)*

What is a Restoration Advisory Board?

A Restoration Advisory Board (RAB) is an advisory body designed to act as a focal point for the exchange of information between *(name of district)* and the local community regarding environmental restoration activities. The RAB is intended to bring together community members who reflect the diverse interests within the local community, enabling the early and continued two-way flow of information, concerns, values, and needs between the affected community and the district.

RAB members will be asked to meet regularly to review and comment on technical documents and plans relating to the ongoing environmental studies and restoration activities at *(name of property)*. Members will be expected to serve as liaison with the community and be available to meet with community members and groups. Membership terms will be decided by the RAB. All RAB meetings will be open to the public. Technical support staff will be available to provide informational support and explanation to RAB members.

How to Become a RAB Member

Community members interested in finding out more about the RAB are invited and encouraged to attend a community meeting. *(Name of district)* will conduct this meeting on *(date and time)*. At the meeting, you will learn about the purpose of the RAB and RAB membership opportunities and responsibilities and will hear an update on the status of restoration activities and future plans. RAB membership applications will be available at the community meeting. The community meeting will be held at the following address:

(Location, address, date, and time)

If you have questions about the RAB or are interested in applying for RAB membership, community interest forms may also be obtained by contacting:

(List name, title, address, and telephone number of contact)

All community interest forms must be received by *(deadline for forms)*. Forms will be reviewed by the selection panel which will make recommendations to the district Commander for approval. The selection panel will be organized by the Project Manager of *(name of district)*. The selection panel members will be representatives from the USACE district, the state, the community, and the U.S. Environmental Protection Agency, as appropriate.

Responsibilities

Community members are expected to serve as volunteers on the RAB and to provide individual advice to decision makers on environmental restoration plans for *(name of MMRP/HTRW property)*.

APPENDIX P

Sample Administrative Record Fact Sheet

Administrative Records in Local Repositories

The Administrative Record is the collection of documents which forms the basis for the selection of a response action at an environmental restoration project. Under section 113 (k) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendment and Reauthorization Act (SARA), 42 USC 9601 et seq., the U.S. Army Corps of Engineers is required to establish an Administrative Record for every remedial or removal response action and to make a copy of the Administrative Record file available at or near the project.

The Administrative Record file must be reasonably available for public review during normal business hours. The Record file should be treated as a non-circulating reference document. This will allow the public greater access to the volumes and minimize the risk of loss or damage. Individuals may photocopy any documents contained in the Record file, according to the photocopying procedures at the local information repository. The documents in the Administrative Record may become damaged or lost during use. If this occurs, the local repository manager should contact the Corps of Engineers district or field office for replacements. Documents may be added to the Record file as the project work progresses. Periodically, the Corps of Engineers may send supplemental volumes and indexes directly to the local repository. These supplements should be placed with the initial Record file materials. The Administrative Record file will be maintained at the local repository until further notice.

Questions regarding the maintenance of the Record file should be directed to the local Corps office. The Corps welcomes comments at any time on documents contained in the Administrative Record file. Please send any such comments to (*name of contact*). The Corps will hold formal public comment periods at certain stages of the response process. The public is urged to use these formal review periods to submit their comments. The public will be advised through the local news media of these formal review periods.

For further information on the Administrative Record, contact (*name and phone number of District PM*).

APPENDIX Q

Model Administrative Record Notice of Public Availability

THE U.S. ARMY CORPS OF ENGINEERS
ANNOUNCES THE AVAILABILITY OF THE
ADMINISTRATIVE RECORD
(*NAME OF PROPERTY, LOCALITY, STATE*)

The U.S. Army Corps of Engineers announces the availability for public review of files comprising the Administrative Record for the selection of the (*remedial, removal*) response action at the (*name of property, locality, state*). The Corps seeks to inform the public of the availability of the Record at this repository and at the district office and to encourage the public to comment on documents as they are placed into the Record file.

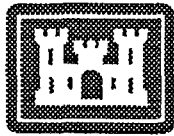
The Administrative Record includes documents which form the basis for the selection of a (*remedial, removal*) response action at this project. Documents now in the Record files include (*determination of eligibility/PA and SI reports, validated sampling data, RI/FS or EE/CA work plan, and the Public Involvement Plan*). Other documents will be added to the Record files as the project work progresses. These additional documents may include, but are not limited to, the RI/FS report, the Proposed Plan, the EE/CA report, other technical reports, additional validated sampling data, comments and new data submitted by interested persons, and Corps responses to significant comments.

The Administrative Record is available for review during normal business hours at:
(*information repository name, address, and phone number and Corps of Engineers district office name, address, and phone number and the room number for its public access reading room*)

Additional information is available at the following location(s):
(*name, address, phone number*)

Written comments on the Administrative Record should be sent to:
(*name, address, phone number*)

C02NY0868



**US Army Corps
of Engineers®**

New York District

Former Lockport Air Force Station, NY

FACT SHEET

June 2002

DESCRIPTION:

The former Lockport Air Force Station was located on approximately 80 acres of land that is about 17 miles north of the City of Buffalo and 7 miles southwest of the City of Lockport in Niagara County, New York. Property for the facility was acquired between 1955 and 1958. The Air Force used the Station as a Master Missile Site. In 1980, the site was declared excess to the needs of the Air Force, and it was transferred to the Town of Cambria in June 1984. A private property owner subsequently acquired the site in September 1984. Portions of the site are currently being used for housing and storage.

AUTHORIZATION/PROJECT DESCRIPTION:

The former Air Force Station is being investigated under the Defense Environmental Restoration Program for Formerly Used Defense Sites. The Superfund Amendments and Reauthorization Act of 1986 authorized the program.

Corps investigations of the former Air Force Station in 1991 identified 14 underground storage tanks, drums, and a 10-15-acre landfill that required further investigation. The tanks and drums were removed in 1995 at an estimated cost of about \$500,000. Six (6) additional tanks were found in 2000, and detailed plans for their removal were developed in 2001.

STATUS:

The removal of the remaining 6 tanks and additional investigations of the landfill will be scheduled when funds for those activities are allocated, \$550,000 and \$350,000, respectively.

PROJECT COST:

Estimated Federal Cost	\$1,400,000
Estimated Non-Federal Cost	\$0
Total	\$1,400,000

CONTACT:

Gregory Goepfert, Program Manager, (732) 435-0079

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**US Army Corps
of Engineers®**

New York District

New York Ordnance Works, Lysander, NY

FACT SHEET

June 2006

DESCRIPTION:

The New York Ordnance Works occupied about 6,795 acres in Lysander, Onondaga County, New York. Ammonium picrate (also known as Explosive "D") was produced at the site. The State of New York owns 2,600 acres of the site, which is operated by the New York State Department of Environmental Conservation, and is known as the Three Rivers State Game Management Area; the New York State Urban Development Corporation was developing 2,300 acres as the "Radisson Community" - a residential/light industry community; the remaining 1,895 acres of the site was subdivided among 98 owners and restricted for agricultural, residential and commercial use.

AUTHORIZATION/PROJECT DESCRIPTION:

The former New York Ordnance Works will be investigated under the Defense Environmental Restoration - Formerly Used Defense Site Program. That program was authorized by the Superfund Amendments and Reauthorization Act of 1986.

Preliminary Corps investigations concluded that chromium and lead contamination is present in groundwater, and there is a potential for the presence of ordnance and explosive wastes at the site. Previous reports indicate that above ground tanks containing acid material and other bulk waste containers were present at the site.

STATUS:

No recent inquiries concerning the site have been received from current landowners. In the 1994 timeframe, records indicate approximately \$379,300 was spent to address waste removal from drums, tanks and bulk containers. In FY-2007, we will perform an ordnance site investigation, following the protocols of the Military Munitions Response Program (MMRP), subject to the availability of funds, to determine if any ordnance clean up will be required; the cost of this effort is estimated to be \$195,000. Further work to address groundwater contamination at the site is not expected for at least 5 years, based upon current funding levels. The scope of future ordnance work will become better defined subsequent to the MMRP site investigation.

PROJECT COST:

Ordnance Site Investigation	\$ 195,000
Ordnance Remedial Investigation / Remedial Action & Monitoring	9,012,100
Groundwater Remedial Investigation / Remedial Action & Monitoring	10,420,900
Total	\$ 19,628,000

CONTACT:

Gregory J. Goepfert, Project Manager, (917) 790-8235

Appendix E
Stakeholders/Interested Parties List

Town of Lysander

Joseph P. Saraceni
Town Supervisor
8220 Loop Road
Baldwinsville, NY 13027
supervisor@townoflysander.org
Phone: (315) 857-0281
Fax: (315) 635-1515

Radisson Development

Quinn Hubbard
Project Manager
Empire State Development
620 Erie Blvd. West
Syracuse, NY 13204
Phone: (315) 479-3208
E-mail: quinn.hubbard@esd.ny.gov

Police Department

Michael Lefancheck
Chief of Police
6 W. Genesee Street
Baldwinsville, New York 13027
(315) 635-3131
police@baldwinsville.org

Radisson Health Center

8278 Willett Parkway, 2nd Floor
Baldwinsville, NY 13027
Phone: (315) 652-1325
bvillemed@sjhsyr.org

Governor Andrew Cuomo

Governor of New York State
NYS State Capitol Building
Albany, NY 12224
Phone: (518) 474-8390

Radisson Community Association

Lynn Tanner
Executive Director
3128 Amesbury Drive
Baldwinsville, NY 13027
Phone: (315) 635-7171 Ext. 20
E-mail: ltanner@radissoncommunity.org

Radisson Greens

Kevin Brennan
CFP Gypsum Express
kbrennan@gypsumexpress.com
Phone: (315) 638-2201 ext. 6150

Fire Department

Tom Perkins
NWFD Chief
7911 Crego Rd
Baldwinsville, NY 13027
Phone: (315) 638-4228

St. Joseph's Hospital Health Center

301 Prospect Ave
Syracuse, NY 13203
Phone: (315) 703-2138

New York State Senate

Senator Andrea Stewart-Cousins
188 State Street Room 907, Legislative Office
Building
Albany, NY 12247
Phone: (518) 455-2585

Senator Kirsten Gillibrand

U.S. Senate
478 Russell Senate Office Building
Washington, D.C. 20510
Phone: (202) 224-4451
www.gillibrand.senate.gov/contact/email-me

Senator Charles Schumer

322 Hart Senate Office Building
Washington, DC 20510
Phone: (202) 224-6542
www.schumer.senate.gov/contact/email-chuck

Erin Kirby, P.G., LEP

USACE Project Manager/Community
Involvement Coordinator
U.S. Army Corps of Engineers –
New England District
696 Virginia Road
Concord, MA 01742-2751
Phone: (978) 318-8147
E-mail: Erin.Kirby@usace.army.mil

Matthew Marko

Regional Director
New York State Department of
Environmental Conservation
615 Erie Blvd. West
Syracuse, NY 13204-2400
Phone: (315) 426-7403
E-mail: Matthew.Marko@dec.ny.gov

US Fish and Wildlife Service

New York Field Office
3817 Luker Road
Cortland, NY 13045
Phone: (607) 753-9334
Fax: (607) 753-9699
Email: FW5ES_NYFO@fws.gov

Representative John M. Katko

24th Congressional District of New York
2457 Rayburn HOB
Washington, DC 20515
Phone: (202) 225-3701
Fax: (202) 225-4042

Syracuse, NY Office

440 S Warren Street 7th Floor, Suite 711
Syracuse, NY 13202
Phone: (315) 423-5657
Fax: (315) 423-5604

Joshua Cook, P.E.

Project Manager-Three Rivers WMA
New York State Department of
Environmental Conservation, Region 7
615 Erie Blvd West
Syracuse, NY 13204
Phone: (315) 426-7411
E-mail: joshua.cook@dec.ny.gov

Basil Seggons, Commissioner

New York State Dept of Environmental
Conservation
625 Broadway
Albany, New York 12233-0001
Phone: (518) 402-8044

Harry Warner, P.E.

NYSDEC Region 7
615 Erie Blvd West Syracuse, NY 13204
E-mail: harry.warner@dec.ny.gov

John Swartwout

NYSDEC
Division of Environmental Remediation
Remedial Bureau A
625 Broadway
Albany, NY 12233
E-mail: John.swartwout@dec.ny.gov

Margaret Sheen

NYSDEC Region 7
615 Erie Blvd West
Syracuse, NY 13204

Childtime of Baldwinsville

8439 Loop Rd
Baldwinsville, NY 13027

**Little Lukes Preschool and
Childcare Center**

8282 Willett Pkwy
Baldwinsville, NY 13027

CP 850, LLC

8297 Center Pointe Dr
Baldwinsville, NY 3027

Glacier Ridge Associates

1950 Brighton-Henrietta Town Line Rd
Rochester, NY 14623

Greenway Apartments

8670 Braewood Dr
Baldwinsville, NY 13027

Woodsboro Apartments

Woodsboro Dr
Baldwinsville, NY 13027

**Radisson Senior Citizen Housing
Development Fund Corporation**

PO Box 168707
Irving, TX 8707

Michael Putnam

NYSDEC Region 7
PO Box 369
Phoenix, NY 13135
E-mail: michaell.putnam@dec.ny.gov

Stephen Lawrence

New York State Department of Health
Bureau of Environmental Exposure
Investigation
Empire State Plaza - Corning Tower Rm 1787
Albany, NY 12237
Phone: 518-402-7860
Email: BEEI@health.ny.gov

DiMarco Drumlin, LLC

1950 Brighton-Henrietta Town Line Rd
Rochester, NY 14623

Marinus Homes, Inc.

PO Box 269
Rome, NY 13440

The Meadows Apartments

3490 Meadowbriar Lane
Baldwinsville, NY 13027

Drumlin Heights Apartments

8680 Drumlin Heights Drive
Baldwinsville, NY 13027

Radisson Greens, LLC

8055 Potter Rd
Baldwinsville, NY 13027-8280