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Analysis of Environmental Impacts Pursuant to New York State Environmental Quality Review Act

Project Name:
Seneca Dairy Systems Agricultural Manufacturing Facility

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Prepared for Submittal To:

Seneca County Industrial Development Agency

Submitted By: Seneca Dairy Systems LLC 3236 Hoster Road, Seneca Falls, NY 13148 Contact: Earl Martin Phone: (315) 712-0118

Prepared With Assistance From:
Phillips Lytle LLP
One Canalside
125 Main Street
Buffalo, New York 14203
Contact: Adam S. Walters, Esq.
Phone: (716) 847-7023

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I. Project Description

A. Introduction

Seneca Dairy Systems LLC ("SDS") proposes to redevelop a portion of an approximately 75 acre parcel of land bounded on the north by West Romulus Road ("Parcel") located on the former Seneca Army Depot ("SEDA" or "Depot") in the Town of Romulus ("Town"), in Seneca County, New York. The redevelopment entails revitalizing a portion of the Parcel by constructing and operating the Seneca Dairy Systems Agricultural Manufacturing Facility ("Project"), a state-of-the-art galvanizing mill and related operations to allow SDS to expand existing operations and meet growing demand for the company's products. The Project will result in the development of approximately 18 acres of the Parcel and will be sited at the southwest corner of West Romulus Road and Fayette Road ("Site"). Appendix A contains survey maps indicating the precise location of the Parcel within the Depot.

SDS is owned and operated by Earl Martin, who was unanimously selected by the Seneca County Industrial Development Agency ("SENIDA") as the winning bidder of an RFP process to sell approximately 6,800 acres of Depot property in June 2016. Mr. Martin's bid was selected from a pool of 16 competitive bids because his bid showed the strongest economic, environmental, and financial viability after SENIDA's comprehensive evaluation. Mr. Martin now seeks to develop a portion of the Depot property for the Project.

SDS manufactures steel products, including a mix of sheet metal, bar stock, round and square tubing, and specialty steels that are used to make equipment for various farm and dairy operations across the United States and other select regions worldwide. SDS' product offerings for large-scale dairy and farming operations include: ventilation systems and controls for regulating temperature inside barns and maintaining air quality; fans and evaporative cooling

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systems for additional temperature control inside barns; stalls and beds designed for animal comfort; feeding rails, panels, and lockups to assist with animal feeding and herd management; livestock watering systems and steel tank waterers; steel gates and panels for livestock and herd management; and associated hardware, clamps, brackets, latches, hinges, and specialty fasteners for mounting and installing equipment.

SDS is a long-time member of Seneca County's business community, and currently employs approximately 35 people at its existing facility at 3236 Hoster Road, Seneca Falls, New York 13148 ("Hoster Road Facility"). SDS' day-to-day operations presently include both manufacturing and galvanizing processes that are expected to continue, but expand considerably, in connection with the Project. The Project is a key component of SDS' strategic initiative to meet growing demand for the company's products, and reduce the company's reliance on foreign imported steel and iron products. The Project is a major proposed investment to relocate SDS' manufacturing and galvanizing operations from the existing Hoster Road Facility to the Site within the Depot. SDS intends for the Hoster Road Facility to remain open and operational to provide support for SDS' business operations.

B. Project Background

Mr. Martin's acquisition of approximately 6,800 acres of Depot property provides the backdrop for a long-term, wide-ranging effort to revitalize the Depot and promote local and regional economic development consistent with community objectives. Mr. Martin's long-term plans for the Depot property, as set forth in his bid proposal to SENIDA, include an approximately \$13 million dollar proposed investment in the Project, but also include multiple other proposed components for repurposing different portions of the Depot property. Mr. Martin's future conceptual plans for other portions of the Depot property include:

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- Development of approximately 20 homesteads that will be available to Seneca County's
 Amish and Mennonite community members who wish to settle there and farm the land.
- Proposed reuse of former ammunition bunkers on Depot property for hay and grain storage
 by Amish and Mennonite community members.
- Dedication of approximately 1,500 acres of Depot land for wildlife preservation including, a coordinated effort between Deer Haven Park LLC and Seneca White Deer, Inc. to promote conservation of habitat and food sources for the Depot's unique herd of white deer.
- Promotion of local tourism and eco-tourism with an emphasis on Seneca White Deer, Inc,'s
 White Deer Tours, as well as tourism associated with the local Amish and Mennonite
 communities.
- Commitment to retaining existing land uses and business leases in connection with the Depot property.
- Conveyance of approximately 25 acres of Depot land to Seneca County to allow existing
 police and fire training facilities to continue operations that are essential to the surrounding
 communities' safety.
- Continued use, preservation, and increased public access to Kendaia Baptist Cemetery,
 which is a historic cemetery that pre-dates the Revolutionary War.

Accordingly, the Project is one component of a comprehensive strategy to revitalize the bulk of the Depot property acquired by Mr. Martin. The Project will anchor and enhance future Depot redevelopment efforts, provide measurable economic benefits to the surrounding community, and expand growth opportunities for SDS' business and operations.

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C. Project Details

The Project features a multi-phase development that will occur over an approximate ten year period on the 18+/- acre Site. Attached as **Appendix B** is a concept plan depicting the three phases of development on the approximately 18 acre Site. After all proposed phases of development are complete, the Project will be composed of utility buildings, a galvanizing plant, office space, warehouse buildings, and mill and welding facilities that will occupy a total of approximately 220,000 sq. ft. in addition to associated parking areas, installation of required utilities, and a stormwater retention pond (see, **Appendix B**).

The primary feature of the Project will be the construction of an approximately 48,600 sq. ft. galvanizing plant (the "Galvanizing Plant"). In short, galvanizing is the process of dipping fabricated steel parts into a large kettle containing molten zinc, which produces a chemical reaction that forms a tight bond between the steel and the zinc. Additional details regarding the galvanizing process are addressed more fully below. Galvanizing provides superior corrosion protection for steel parts and increases the longevity, durability, and sustainability of steel products. In fact, galvanized steel is so durable that it generally requires no maintenance (such as sandblasting, repainting etc.) during the products' service life. Because SDS' customers and product-offerings are concentrated in the agricultural sector, it is crucial for SDS to offer galvanized steel products and equipment that require minimal upkeep and that each product is manufactured to meet the challenges of year-round, all-weather, agricultural and livestock management processes.

Galvanizing methods and galvanizing facilities are commonplace in the United States and around the world. Galvanized steel is made from two naturally occurring elements--namely, zinc and iron ore (*i.e.* steel)--and accordingly the galvanizing process does not introduce disruptive chemicals into the ecosystem. Galvanized steel is long-lasting and requires little upkeep after the

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finished product is installed by the end user. Moreover, galvanized steel can be recycled, and both steel and zinc feature high reclamation and recycling rates according to the American Galvanizers Association. Accordingly, principles of sustainability and re-use are fundamental to the galvanizing process and the life cycle of galvanized steel products.

1. Project Phase 1

Phase 1 of the Project contemplates the development of approximately 56,000 sq. ft. of building space, consisting of the Galvanizing Plant referenced above, and office space to support the Project's manufacturing operations. Phase 1 will also include the construction of a stormwater management system, utilities (including water, sewer, gas, electric, and fiber optics), and paved and gravel parking areas and access roadways. In addition, repairs will be made to West Romulus Road to provide access to the Site from Route 96A to the west and Route 96 to the east. Phase 1 is anticipated to generate 12 new employees after year one of operation and generate another 23 employees after year two of operation.

2. Project Phase 2

Phase 2 of the Project is anticipated to begin within four years after Phase 1 is operational and stabilized. Phase 2 contemplates the development of up to 90,000 sq. ft. of additional building space, which will consist of at least two 30,000 sq. ft. mill and welding facilities, and another 30,000 sq. ft. building that will be used for either a warehouse area, or a third mill and welding facility, to be determined based on the Project's needs at that time. Phase 2 may also include the potential for an addition to the warehouse area depending on the Project's needs throughout Phase 2. Additional utility construction will be completed as needed to service the Phase 2 developments. At the completion of Phase 2, it is anticipated that the Project will employ an additional 25 employees.

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3. Project Phase 3

Phase 3 of the Project is expected to begin within four years after Phase 2 is operational. Phase 3 contemplates the development of up to another 77,000 sq. ft. of additional building space, which will consist of another 30,000 sq. ft. mill and welding facility, a 17,000 sq. ft. warehouse area, and an additional 30,000 sq. ft. building that will be used for either additional warehouse area or an additional mill and welding facility, to be determined based on the Project's then existing needs. Additional utility construction will be completed as needed to service the Phase 3 developments. The Project's total number of employees is expected to increase to 125 employees after Phase 3 is fully operational.

4. **Project Operations**

When the Project begins to operate, the bulk of the products and materials SDS uses to supply its manufacturing and galvanizing operations will be delivered to the Project by tractor trailer trucks throughout the week from Monday through Friday. SDS anticipates 3-5 semi-trailer trucks per day, 4-5 small flatbed trailers pulled by pickup trucks per day, and 1 scrap metal truck per week. Additionally, SDS anticipates daily small package delivery via UPS and/or Fed-Ex. Once materials arrive at the Project, they will be unloaded, and the different types of steel will be placed into inventory in different locations inside the Project's facilities. Raw steel received by SDS will be treated and fabricated into a final product according to the processes described below.

Level one process includes fabrication, which is the process of forging a raw piece of steel into a discrete component part that is the correct size and shape to fit into an end product. The fabrication process involves cutting and shearing steel sheet metal, bar stock and tubing to

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the correct lengths and sizes as needed to produce SDS' end products for use by dairy operations and other farming operations.

Level two processes include the secondary stages of preparing materials for use in SDS' end products. Level two processes include bending, coping (a specialized method of joining metal parts together), and drilling the newly fabricated parts to suit later assembly needs. Level three processes include welding, fitting, and racking parts. This is the final preparatory step before the parts go to the galvanizing stage.

The galvanizing process begins with a degreaser bath. Degreasing is a method of removing grease, oil, and dirt from steel parts by submerging the parts in a tank of degreaser bath solution. The Project will use a phosphoric acid-based degreaser bath solution to clean the steel parts. The degreaser bath solution will be composed of approximately 90% water to 10% phosphoric acid-based degreaser, and will have a pH value ranging between 2.5pH to 1.8pH. For a frame of reference, this is approximately the same pH as Coca-Cola. The degreaser bath solution will be heated to a maintained temperature between 90°F-100°F.

By comparison, other alternative degreasing methods generally require a higher heat between 140°F-180°F and carry a higher pH between 11pH to13pH, in addition to using tank agitation methods to speed the degreasing process. A high heat, high pH, caustic solution can attack fatty tissue and cause burns to unprotected skin. SDS specifically selected its proposed degreasing method because of its more benign bath solution, which promotes safety for employees and the environment. An additional benefit of the degreasing method SDS has selected is that a lower temperature bath solution means there will be fewer vapors as compared to a higher heat, more caustic bath solution.

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The phosphoric acid-based degreaser bath solution used by SDS will be placed directly into the degreaser tank from a delivery truck. The degreaser bath stage does not generate waste streams or byproducts, and generally yields only minimal vapors. Any vapors that come off the surface of the degreaser bath solution tank will be captured by a fume capturing system and scrubbed. Scrubbing is an air pollution control method that removes unwanted pollutants and prevents their escape into the atmosphere. The scrubbing process pulls the phosphoric acid from the fumes and separates it from the air. The scrubber then discharges the clean air and returns the acid back to the tank which prevents the formation of any waste stream.

After the products move through the degreasing bath, the products are then placed into a rinse tank and any residual degreaser is rinsed off of the products. The rinse tank step is repeated two times to ensure no grease remains on the steel products. The rinse tanks will also provide make up water that can be reused to prepare the degreasing bath solution described above. When the levels of degreasing bath solution in the degreasing tank begin to drop from the formation of the slight vapors described above, it is necessary to add make up water from the rinse tanks into the degreaser tank, and the rinse tanks are then refilled with fresh water.

After the second rinse process, the product is then put into an acid solution which will remove any oxidation from the surface of the metal. This process is known as pickling. Pickling is the process in which the raw steel is cleaned of rust and oxidization. It creates a surface quality that is capable of bonding with zinc. To pickle steel, the steel must be submerged into a tank of hydrochloric acid and water, and then left to sit for a certain period of time that varies depending on the surface quality and surface area of the particular product. There will be four pickling tanks, each of which will contain a solution made of 85% water and 15% hydrochloric acid. This mixture will be kept between 75°F-90°F. An additive called anti-vapor is added to

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the pickling tank to reduce the acid fumes by 70%, and any existing fumes will be collected using the same system as in the degreasing stage of production described above. Next, the product is lowered into a third rinse bath and all traces of the hydrochloric acid mixture are rinsed from the steel. The product is then treated again with a fourth and final rinse bath for added assurance that the product is clean and ready for additional processes.

The next step in the galvanizing process is to dip the steel into flux. Flux is a chemical compound that helps bond two metals together, in this case zinc and steel. The flux serves two purposes. The first is to coat the steel with a sealant that keeps the metal from re-oxidizing. The second purpose for this flux dip is to prepare the steel material so that it can form a strong bond with the zinc material. The flux is a mixture of ammonium chloride and zinc chloride. It is heated to 140°F. The steel is dipped into the flux to allow a full coating to cover the steel. Just as in the degreasing stage and the pickling stage, this flux stage will also feature a fume hood system that collects any vapors and scrubs them to prevent unwanted dispersal of fumes.

After the flux stage, the next step in the galvanizing process is the dry heat chamber. The dry heat chamber is designed to dry the metal product after the rinse and flux bath before it is lowered into a molten zinc bath. The dry heat chamber uses the excess gas from the furnace to preheat the steel, which reduces the amount of heat leaving the plant, reduces the amount of heat necessary to maintain the molten zinc bath, and allows the steel to move through the system faster. The net results are an increase in throughput and an overall reduction of energy consumption. Additionally, when the steel is submerged in the molten zinc bath, any moisture on the steel immediately turns to steam, which can cause the zinc to splatter. While the system has a completely enclosed hood to prevent emissions, the steam could create a safety hazard for

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the operators. Heating the steel in a dry heat chamber will reduce moisture, thereby reducing the amount of steam and significantly reducing safety hazards.

After the dry heat chamber stage, the steel emerges perfectly dry, and the next phase of production is a zinc bath. The zinc bath is heated to 840°F and the zinc is then suspended in a molten state. The steel parts are lowered into the kettle containing the molten zinc bath and a bonding action takes place. The zinc is drawn towards the steel and fusion occurs between the steel and the zinc. This fusion between the zinc and steel is the critical stage in the galvanizing process that ensures that end products have excellent protection against corrosion, as described above.

The final step in the galvanizing process is the cooling bath. When the steel emerges from the molten zinc after fusion, it retains the high heat from the zinc bath. Accordingly, it must be cooled before it can be handled, stored, packaged, or assembled. The steel is lowered into a cooling bath composed of plain water, which quickly and safely lowers the steel's temperature and prepares it for packaging and assembly.

After the galvanizing process is complete, the next step is to assemble and package the steel parts into appropriate boxes and containers for storage and distribution. The packaged materials are then moved to a designated warehouse area to be stored until the parts are needed for sale to Seneca Dairy Systems' end users and customers. Upon receiving an order, SDS employees will enter the designated warehouse area and pull the required products, and load them on to trucks for delivery to the customer.

Due the nature of SDS' production and galvanizing processes, a comprehensive health and safety plan is critical and SDS has extensive experience maintaining a safe facility. Among other safety protocols, SDS plans to conduct daily walk through inspections and implement

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standard safety protocols, as well as certain drills to ensure employees' safety. All equipment in the Galvanizing Plant, and every facility within the Project, will have a rigorous maintenance schedule and will be monitored on a routine basis for any and all potential issues. SDS will also run regular tests on all chemicals used in the galvanizing process to ensure correct ratios and safe and reliable use of these materials.

In the modern manufacturing sector, where SDS currently operates and thrives, it is essential to address and correct practices that are detrimental to the environment and the health and safety of employees. Accordingly, SDS is committed to meeting or exceeding all environmental standards, including those for testing the chemical composition of the galvanizing processes' byproducts prior to appropriate disposal. This will ensure that no hazardous materials are released from the production and galvanizing process, and minimize the potential for creation of hazardous waste from the Project. Additionally, SDS will implement a comprehensive air quality management system in the facility, composed of air scrubbers and baghouse filters.

These systems will be designed to remove any dust particulates from the air in the facility and ensure no excessive pollutants emerge from the facility. While the Project will produce some waste material, the majority of the waste material will be sent for recycling, so that a minimal amount of waste ends up in traditional landfills. As described above, steel is readily recyclable. SDS intends to use a company such as Safety Clean to advise and dispose of the more sensitive and potentially hazardous waste that may be produced during the galvanizing processes.

D. <u>SEQRA</u>

Under the State Environmental Quality Review Act ("SEQRA"), prior to an agency undertaking or approving a project, it must consider the potential environmental impacts of a proposed project. As such, SENIDA cannot act on SDS' application for financial assistance until

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a SEQRA process has been completed. Because of the size of the Project (more than 10 acres), a coordinated SEQRA process is mandatory. Thus, it is suggested that the SENIDA act as lead agency and conduct a coordinated SEQRA process with interested and involved agencies. A copy of Part 1 of the Full Environmental Assessment Form is attached hereto as **Appendix C**.

The SEQRA process would be commenced upon the adoption of a resolution by SENIDA declaring its intent to act as lead agency. A Notice of Intent to proceed as lead agency would then be sent to all interested and involved agencies which would formally start the coordinated review. Interested and involved agencies would then have 30 days to contest SENIDA's lead agency status. Assuming that no agency does so, the SENIDA would be established as the lead agency and is charged with making the SEQRA determination of significance for all interested and involved agencies.

There will be a number of interested and involved agencies because the Project will require multiple reviews, permits and approvals. On a preliminary basis, we have developed the following list of interested and involved agencies:

- Seneca County Industrial Development Agency
- New York State Homes and Community Renewal
- New York State Department of Environmental Conservation
- Town of Romulus Planning Board
- Town of Romulus Town Board
- Town of Romulus Zoning Board of Appeals
- Empire State Development
- United States Army Corps of Engineers
- New York State Department of Transportation, Region 3
- New York State Department of Transportation, Cayuga/Seneca Residency
- Seneca County Planning Board
- Seneca County Board of Supervisors
- Seneca County Public Works
- Seneca County Office of Emergency Management
- Village of Ovid Fire Department
- Romulus Volunteer Fire Dept., Inc.
- Varick Volunteer Fire Co., Inc.

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II. Site Description

A. The SEDA/ Depot Property

In 1941, the U.S. Government acquired 10,587 acres in Romulus and Varick, New York, an area that became known as the Seneca Army Depot Activity ("SEDA" or the "Depot"). The U.S. Army ("Army") operated SEDA and began its primary mission of receipt, maintenance, and supply of military explosives in 1943. After the end of World War II, SEDA's mission shifted from supply to storage, maintenance and disposal of ammunition.

The Army operated 927 structures at the Depot including maintenance shops, a machine shop, two sewage treatment plants, a water treatment plant, an uncontaminated trash incinerator, soldier support facilities (including living quarters, and dining and recreational facilities), munitions storage facilities, facilities for the demilitarization/disposal of munitions, warehouses for the storage of hazardous and non-hazardous materials, and training facilities for the U.S. Army Reserves and National Guard. The munitions storage facilities, which encompassed approximately 4,000 acres of the Depot, were comprised of 519 earth covered igloo magazines, 8 standard magazines, 2 inert warehouses, 2 small arms warehouses, and 3 maintenance facilities. SEDA also has an airfield with a 7,000 foot runway and refueling services.

From inception until its mission was terminated in 1999, the demilitarization of munitions was performed by openly burning, directly on the ground surface, and incinerating in deactivation furnaces. Explosives that could not be incinerated were dismantled and the powder and/or propellant was removed by steam cleaning and disposed of onsite in pits. During the 1950s and 1960s, wastewater generated from washing radioactive contaminated clothing was stored in a 5,000-gallon tank. In 1987, SEDA attempted to remove the tank, but then backfilled

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it in place. During the 1950s and 1960s, "classified" metallic parts were buried onsite and the exact nature of the buried material has not been disclosed.

Industrial activities, including, among others, degreasing, spray painting and paint removal, alkaline washing, boiler plant maintenance, welding and soldering, woodworking, and metal-coating, occurred at the Depot. Effluents from these operations—including solvents, preservatives, grease, metal dusts, acids, alkalis, and propellant and explosive dusts—were disposed of onsite by burning/incinerating, storm drain discharge, or directly to the ground. In addition, stockpiles of various ores were stored at several locations within the Depot.

SEDA operated several landfills onsite for the disposal of various materials including non-combustible materials, materials that were too bulky to be incinerated, fly ash, metals including crushed heavy gauge metal drums, construction debris, scrap wood, and garbage. In addition, waste oil was stored in underground and above-ground storage tanks, aircraft were refueled from tanker trunks onsite, metal and other materials with resale value were stockpiled until accumulated and sold, and it is rumored that there was a paint and solvent disposal pit.

Furthermore, the Army operated several Resource Conservation and Recovery Act ("RCRA") treatment, storage, and disposal ("TSD") facilities to manage its hazardous waste. These facilities consisted of a 55-gallon drum storage area; a PCB-contaminated storage area; a mixed waste storage area; and areas for the storage and demilitarization of explosives. All of these facilities operated under interim status until September 2005 when the New York State Department of Environmental Conservation ("NYSDEC") accepted the Army's Closure Certificate.

In 1989, the EPA proposed SEDA for the National Priorities List ("NPL") as a site with known releases or threatened releases of hazardous substances, pollutants, or contaminants. In

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1990, SEDA was listed on the NPL. As a federal NPL facility, provisions of the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA") required that the Army investigate and conduct remedial actions, as required by the findings of the investigations, at all sites required at the facility. Accordingly, in 1993, the Army, the United States Environmental Protection Agency, Region II ("EPA") and the NYSDEC entered into a Federal Facilities Agreement ("FFA"), which outlined the administrative process and the procedures that would be followed to comply with the CERCLA.

In 1994, the Army commissioned a Solid Waste Management Unit Classification Report ("SWMU Report") to identify all of the sites where data or information suggested, or evidence existed to support, that hazardous substances, hazardous wastes, or petroleum products had been handled and/or where releases to the environment may have occurred. The SWMU Report identified 72 areas of concern ("AOC") labeled as SEAD-1 through SEAD-72. Based on additional investigations, three of these SWMUs were broken into multiple sites as follows: SEAD-44 was broken into SEAD44-A and SEAD-44B; SEAD-64 was broken into SEAD-64A, SEAD-64B, SEAD-64C, and SEAD-64D; and SEAD-65 was broken into SEAD-65A, SEAD-65B and SEAD-65C, bringing the total number of AOCs to 78 sites.

The Army ranked each of the SWMUs based on the projected risk and need for investigation into five categories - No Further Action, Low Priority, Moderately Low Priority, Moderately Priority, and High Priority. Once categorized, the Army conducted limited Site Inspections ("SI") and, if warranted based on the SI findings, Expanded Site Inspections ("ESI") and Remedial Investigations ("RI").

In October 1995, following recommendation by the Department of Defense, approval by the Base Closure Commission, the President and Congress, SEDA was approved for the 1995

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Base Realignment and Closure ("BRAC") list. With SEDA's inclusion on the BRAC list, the Army's emphasis expanded from investigation/remediation to include the release and reuse of non-affected portions of SEDA to the surrounding community for non-military purposes. BRAC required that the Army finalize decisions and actions for SWMUs, regardless of ranking, so the sites may be released for non-military use. As part of BRAC, the Army commissioned an Environmental Baseline Survey ("EBS") to assess the condition of the whole property. The EBS is annexed hereto as **Appendix D**. Based on the EBS, an additional four AOCs were identified and labeled SEAD-121C, SEAD-121I, SEAD-122B, and SEAD-122E. Additionally, per the requirements of BRAC, the Army commissioned an Ordnance and Explosives Archives Search, which resulted in two additional AOCs labeled as SEAD-007-R-01 and SEAD-002-R-01. Accordingly, the total number of AOCs requiring investigations increased to 84 sites.

SEDA's military mission terminated in September 1999 and the installation was closed in September 2000. The Army commissioned several Findings of Suitability to Transfer ("FOST") for the transfer of approximately 9,500 acres to the Seneca County Industrial Development Agency ("SENIDA"), which included 7,000 acres of conservation/recreation, 900 acres of Planned Industrial Development/Warehouse Area ("PID Area") and 500 acres of airfield parcel. The FOSTs were finalized in and around 2003 and the 9,500 acres was subsequently transferred to SENIDA. The Army has also transferred an additional approximately 300 acres of the Prison Parcel to the New York State and for creation of a county jail. The Army has retained ownership of approximately 800 acres that includes nine AOCs where unauthorized access is restricted. ¹

¹ SEADs 12, 23, 45, 46, 57, 70, 72, 002-R-01 and 007-R-01.

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Per the requirements of CERCLA, a Record of Decision ("ROD") is prepared for each AOC to document the selection of remedial action by the Army and the EPA, chosen in accordance with the requirements of CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan, where applicable. The BRAC Environmental Coordinator, the Army and the EPA have been delegated the authority to approve the RODs, and the NYSDEC and the New York State Department of Health ("NYSDOH") were consulted on the planned remedy.

Between 1999 and present, a ROD has been signed for 83 of the 84 SWMUs. Pursuant to the RODs, extensive investigations, sampling, testing, remediation, and removal and disposal of contaminated materials has occurred at the Depot.

As a result, 9 SWMUs are retained by the Army, there is no unauthorized access permitted in these AOCs, and they are still under assessment.²

Additionally, 39 SWMUs have signed RODs with a No Action or a No Further Action determination because these sites do not pose a threat to the public health, welfare or the environment.³ A No Action or No Further Action is the final step in the CERCLA process and accordingly these 39 sites are not subject to further review.

SEAD-53 (the Munitions Storage Igloos) is one of the sites with a No Action determination because this site does not pose a significant threat to human health or the environment. SEAD-53 is located within the central portion of the property designated as

² SEADs 12, 23, 45, 46, 57, 70, 72, 002-R-01 and 007-R-01.

³ SEADs 4, 7, 9, 10, 11, 18, 19, 20, 21, 22, 24, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 42, 47, 48, 49, 50, 51, 53, 54, 55, 58, 60, 61, 63, 65A, 65B, 65C, and 68.

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conservation/recreation area and measures roughly 2,900 acres. The Site is located within SEAD-53, in an area that allows for unlimited use and unrestricted exposure and is no longer an AOC or subject to regulatory or use constraints.

Finally, the remaining 36 AOCs have received signed RODs and are suitable for commercial and industrial uses. These sites are subject to certain Land Use Restrictions ("LUR") that include a prohibition of development and use of the property for residential housing, elementary and secondary schools, childcare facilities and playgrounds; prevention of access to or use of the groundwater; digging restrictions; and a prison parcel reversionary deed. The Airfield Parcel is subject to an environmental easement that prohibits development and use of the property for residential housing, elementary and secondary schools, childcare facilities and playgrounds. In addition, several of the sites are located in the PID Area and are subject to a PID-wide environmental easement that prohibits development and use of the property for residential housing, elementary and secondary schools, childcare facilities and playgrounds; and prohibits access to or use of the groundwater.

A portion of the Parcel is located within SEAD-66 (Pesticide Storage) within the PID Area⁵. This portion of the Parcel has LURs prohibiting the development and use of the property for residential housing, elementary and secondary schools, childcare facilities and playgrounds; and prohibiting access to or use of the groundwater.

⁴ SEADs 1, 2, 3, 5, 6, 8, 13, 14, 15, 16, 17, 25, 26, 27, 39, 40, 41, 43, 56, 69, 44A, 44B, 52, 59, 62, 64A, 64B, 64C, 64D, 66, 67, 71, 121C, 121I, 122B, 122E.

⁵ While a portion of the Parcel is located within SEAD-66 (and the PID Area), the Site is entirely outside SEAD-66 and the PID Area.

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Pursuant to CERCLA, reviews are required a minimum of every five years for any sites that do not allow for unlimited use and unrestricted exposure. Accordingly, the 36 sites referenced above were the subject of a five-year statutory review in 2011 and again in 2016. A copy of the 2016 five-year statutory review is annexed hereto as **Appendix E**. The 2011 and 2016 five-year statutory reviews determined that with the LURs in place, the ASC's remain protective of human health and the environment.

In June 2016, SENIDA transferred approximately 6,800 acres to SDS as the winning bidder of an RFP process. A majority of the Parcel is authorized for unlimited use and unrestricted exposure, including the Site, because there is no threat to the public health, welfare or the environment. The remaining portions of the Parcel (within SEAD-66) are suitable for commercial and industrial uses and, with LURs in place, are protective of human health and the environment.

B. The Site

As described above, the Site is an approximate 18 acre portion of the Parcel located at the southwest corner of West Romulus Road and Fayette Road, within the greater Depot property.

See **Appendix B**.

1. Physical Description

The Site's physical character is largely field vegetation (much of it non-native or invasive) growing out of old graveled and paved roadways, parking lots, and equipment and material storage areas present on the Site from past Depot operations. There is a small approximate 1,200 square foot utility building currently on the Site.

There are three soil types that cover the Site: Romulus Silty Clay Loam, Darien Silt Loam 0-3% slope, and Angola Silt Loam 0-3% slope. The Site contains open fields of grasses,

sedges, and wildflowers with little to no shrubs and trees. Bedrock levels are an average of 6' below the surface and there are no rock outcroppings present on the Site.

Approximately 40% of the Parcel is considered well-drained, and the well-drained portion of the Parcel includes areas that the Army previously paved and ditched along with the land directly adjacent to any ditches previously constructed. The moderately drained areas are primarily areas with up to 3% slope and some areas that are adjacent to roads and ditches. In addition, there are some areas that have minimal top soil cover and during the summer have been observed to get very dry. There are no wetlands on the Site.

The Site is an optimal location for the Project on the Depot property and the Parcel given the proximity to existing infrastructure, including water, sewer, electricity and fiber optic, which has adequate capacity to serve the Project.

2. Zoning

In 1995, the Seneca County Board of Supervisors established the Seneca Army Depot Local Redevelopment Authority, an agency charged with preparing a redevelopment plan for the Depot. A Reuse Plan and Implementation Strategy ("Reuse Plan") was adopted in 1996. The Reuse Plan was approved by the Seneca County Board of Supervisors and the Romulus Town Board.

The Town of Romulus' 2001 Comprehensive Plan ("Comprehensive Plan") notes that the closure of the Depot was highly detrimental to the Town, and envisions a transition from a government-based economy to private sector economic growth.

The Comprehensive Plan originally laid out six land use areas, including Conservation and Recreation, and Industrial/Warehouse on the Parcel. These zoning classifications were incorporated into the Town of Romulus Zoning Law in 2002.

In 2003, approximately 9,500 acres of the Depot were transferred to SENIDA. In 2004, SENIDA, the agency responsible for implementing the Reuse Plan, undertook a Master Plan update. The purpose of that update was to reevaluate the portion of the property that had been designated Conservation/Recreation, including the Parcel, and to identify alternative uses. The Master Plan was completed in 2005. In 2006, the Town of Romulus Zoning Law was updated to reflect the Master Plan update. A new district was created, the "Energy-Development ("E/D") District", which was meant to "promote the management of renewable resources, the development of alternative energy sources, and the development of industrial uses which provide a product for, or utilize and promote, alternative energy sources." The E/D district was meant to promote the development of the central and western portions of the Depot. Manufacturing and warehousing uses, such as those contemplated by the Project, were permitted in the E/D district upon issuance of a Special Permit.

A 2013 Varick/Romulus Depot Zoning Study prepared by Stuart I. Brown Associates evaluated further zoning revisions to "identify land uses that would further each town's goals and ensure that these uses are allowed/encouraged", encourage the management of the white deer herd, and ensure that the zoning was ready for uses that may be proposed on the Depot. The proposed revisions included replacing the E/D district with "Warehouse, Industrial, Transportation, Energy District ("WITE")" and 342 acres overall (177 acres along Route 96 and 165 acres along West Romulus Road) of Agricultural District. An Environmental Restrictions Overlay was also proposed for the I/W district. Manufacturing and warehousing remained Special Permit Uses in the WITE district, though not listed as permitted uses in the Agricultural District. Included in the uses permitted by Special Permit in the Agricultural District was "Agricultural Support Business." An Agricultural Support Business is defined as "a commercial

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enterprise whose primary function is to provide goods and services, which directly support agricultural use. These commercial enterprises include but are not limited to: feed store, farm implement sales, grain storage and fertilizer distribution." In 2015, these zoning amendments were adopted by the Town of Romulus "to better reflect existing and proposed uses of land" on the Depot.

Currently, the Parcel is zoned WITE, Agricultural, and,to the east, across Fayette Road, I/W. The Site is currently zoned Agricultural.

III. Analysis of Environmental Impacts

This section provides an evaluation of the potential environmental impacts associated with the construction and operation of the Project. For the convenience of the Lead Agency, as well as interested and involved agencies, the analysis has been organized based on Part 2 of the Full Environmental Assessment Form.

A. Impact on Land

1. Physical Resources

The proposed Project will involve construction on, and physical alteration of, the land surface of the Site, and will increase impervious surfaces on the Site. However, all work will be completed in conformance with required State regulations. The Project will not involve construction on land where the depth to the water table is less than three feet, as the average depth is 6'6". No construction is proposed on slopes of 15% or greater, as there are no slopes of 15% or greater on the Site. Except for grading and excavation work associated with foundations for buildings and associated parking, the slope of the land will not be significantly altered by the Project. Average depth to bedrock is 6'. While there will be excavation for stormwater management features and installation of foundations, all excavated material will remain on site.

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Although the Project is proposed in three phases over an estimated 10-year span, construction activity will be intermittent. There will be approximately four years between each proposed phase. The overall level of construction activity will not differ substantially from a single phase project. In addition, the isolated nature of the Site on the 75-acre Parcel as well as the overall 6,800 acres owned by Earl Martin will mitigate any potential impact from phased construction. There are no nearby neighbors that would be disturbed by construction activities. In fact, the Project is uniquely sited because of its isolated location.

The Project will not result in increased erosion. Pursuant to NYSDEC requirements, a State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-10-001) and a Stormwater Pollution Prevention Plan ("SWPPP") are required. The SWPPP will include both permanent and temporary stormwater control measures that will minimize stormwater runoff during construction and operation of the Project. SDS will implement soil and erosion control measures during construction. The Site is not located within a Coastal Erosion hazard area.

Accordingly, the Project will not have any significant adverse impacts to the physical resources of the land.

2. Impact on Land Use and Zoning

The Project will result in a new facility on land that is not currently developed, but has a history of military use as the now-decommissioned Depot. As a result, the Site is part of an area proposed for economic redevelopment and a return to productive use. The Project is consistent with the County and Town's goals for the Depot property. The County's Economic Development Plan notes the Depot as an area for focused investment and development. The Town's Comprehensive Plan notes that its intent is to direct commercial, business and industrial

growth to the "preferred locations in the Depot redevelopment area." The Project will result in exactly the kind of redevelopment envisioned for the Depot property and the Site, and is proposed to be located on an area with existing utility capacity. These benefits will be achieved without impacting any neighbors due to the isolated nature of the Site.

The Site is currently zoned Agricultural, with the remainder of the Parcel zoned I/W and WITE. Although the current zoning of the Site is Agricultural, industrial, manufacturing and warehousing uses were permitted on the Site as recently as 2015. While the Project may qualify as an "Agricultural Support Business" currently permitted by Special Permit in the Agricultural district, it is likely a rezoning to WITE for the Site will be required due to the manufacturing nature of the Project. Manufacturing and warehousing is permitted in the WITE district upon issuance of a Special Permit. The portions of the Parcel zoned WITE and I/W, which are adjacent to the Site, currently allow for industrial, manufacturing and warehousing uses. Further, as noted above, the Site is an optimal location for the Project on the Depot property and the Parcel given the proximity to existing infrastructure, including water, sewer, electricity and fiber optic, which has adequate capacity to serve the Project. Infrastructure challenges on the Depot property are well-known, and development at this Site avoids those issues.

Accordingly, the proposed Project, although it may require a rezoning, is consistent with the past and present permitted uses on the Parcel, along with the economic development goals for the Depot.

To the east of Fayette Road, the Parcel is zoned I/W and is part of the Environmental Restrictions Overlay. SEAD-66 (Pesticide Storage) is located on that portion of the Parcel, but not in the Site that will be disturbed for the Project. SEAD-66 purportedly stored certain chemicals, however specific hazardous materials have not been identified. SEAD-66 is also

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subject to an environmental easement restricting the development and use of the property for residential housing, elementary and secondary schools, childcare facilities and playgrounds; and prohibiting access to or use of the groundwater. SEAD-66 is subject to review, pursuant to CERCLA, minimum of every five years as part of the Army's closure of the Depot. The 2011 and 2016 five-year statutory reviews determined that with the LURs in place, these sites remain protective of human health and the environment. *See* **Appendix E**. Development on the Site will not affect SEAD-66, as there will be no land disturbance or development on the portion of the Parcel across Fayette Road, in the Environmental Restrictions Overlay.

Accordingly, the Project will not have any significant adverse impacts to land use and zoning.

B. Impact on Geological Features

The Site consists of a previously developed area of the Depot that has been reverting into field vegetation (much of it non-native or invasive). There are no unique or unusual land forms on the Site (e.g., cliffs, dunes, minerals, fossils or caves). Nor are there any National Natural Landmarks at or around the Site. Accordingly, the Project will not have a significant adverse impact upon geological features.

C. Impact on Water

The development of the Site will not have any impacts to wetlands. However, development of the Site will result in new impervious surfaces which will require stormwater management systems to properly handle stormwater flows and ensure proper management of such stormwater on-Site.

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1. Wetlands

According to the NYSDEC Environmental Resource Mapper, no wetlands that would qualify as Federally or State-regulated wetlands exist on the Parcel. Additionally, SDS commissioned a Wetland Survey for the Site, which is attached hereto as **Appendix F**. The wetland survey identified a recently constructed wetland to the north of the Site, created as an ecological offset during the runway expansion at the Finger Lakes Regional Airport located in Seneca Falls NY. While this constructed wetland is located on the Parcel, it is not located on the Site (see **Appendix B**) and will not be disturbed by the Project.

2. Surface and Ground Waters

Reeder Creek passes through the Parcel in a north/south direction. It is located west of the Site and flowing predominantly northwesterly and leaving the Depot before it turns to the west and flows into Seneca Lake. Surface drainage from the Parcel will discharge into Reeder Creek. In order to ensure that development of the Site will not adversely impact the Creek, SDS commissioned a Preliminary Stormwater Report for the Project, which is included as Appendix G. As detailed in that report, as a result of the Project, approximately 18± acres of impermeable surfaces will be developed and will require a stormwater infrastructure to handle and treat stormwater runoff. As detailed in the Preliminary Stormwater Report, the amount of stormwater flow is a function of watershed characteristics such as acreage, land cover, slope, and soils. Regardless of the size of the contributing area, upstream watershed and drainage characteristics affect the amount of flow and rate of discharge from storm events.

Runoff pollution affects the water quality of the small tributaries, ponds or other receiving waters including ground waters. The planned excavation and fill events associated with construction of the Project present the possibility of silt laden runoff entering streams as a

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result of storm events occurring during construction. Also, the potential for oil spills exist from construction vehicles, a risk common to construction projects. Pursuant to NYSDEC requirements, a State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-10-001) and a Stormwater Pollution Prevention Plan ("SWPPP") are required. The SWPPP will include both permanent and temporary stormwater control measures that will minimize stormwater runoff during construction and operation of the Project. SDS will implement soil and erosion control measures during construction to ensure that there are no inappropriate discharges of contaminants to surface waters during construction. Following site stabilization and construction of the Project, stormwater will be managed in accordance with the requirements of the SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-17-004) and best management practices would be employed to protect water quality. Accordingly, the Project will not have a significant adverse impact upon surface or ground waters.

D. Impact on Flooding

The Project will have no adverse impacts to flooding. The Parcel is not located in a flood zone or in an area prone to flooding. All stormwater generated from new impervious surfaces associated with the Project will be appropriately handled on-Site with the focus of stormwater treatment being infiltration into the ground (see, **Appendix G**). Additionally, approximately 40% of the Parcel is considered well-drained and the well-drained portion includes areas that the Army previously paved and ditched. The moderately drained areas are primarily areas with up to 3% slope and some areas that are adjacent to Army-created roads and ditches. There are also some areas that have minimal top soil cover and during the summer have been observed to get

very dry. Accordingly, the Project will not have any significant adverse impacts upon flooding or flooding conditions.

E. Impact on Air

The Project will have air emissions associated with the galvanizing and pickling lines and will require appropriate air permits from NYSDEC. A detailed air emissions report is being prepared and will be submitted to the lead agency under separate cover as soon as it is complete.

F. Impact on Plants and Animals

SDS commissioned a Flora & Fauna Survey for the Site, which is included as

Appendix H. Site investigations have found minimal habitat on the Site. In addition, while the

NYSDEC Environmental Resource Mapper suggested rare species or rare ecological community

types may exist in the Parcel vicinity, Site investigations did not identify the presence of any

threatened or endangered species on-Site.

The Site is predominantly field vegetation (much of it non-native or invasive) growing out of old graveled and paved roadways, parking lots, and equipment and material storage areas present on the Site from past Depot operations. These open fields of grasses, sedges and wildflowers with little to no shrubs and trees do not provide the protective environments of dense woodlot, wetland vegetation or heavy scrub brush that promote large animal populations.

Bald Eagles and Osprey have periodically been observed within the bounds of the Depot. There is also a population of white-pelaged (leucistic) white-tailed deer, which inhabit the fenced portion of the Depot. In addition, available data from the State indicates the Short-eared Owl, a New York State endangered species, inhabit areas in the vicinity of the Site. However, the quality of the habitat on-Site is not attractive to these species. For instance, the Site's lack of dense herbaceous vegetation which serves as cover for small mammals and loose organic soils

necessary for tunneling/borrowing mammals is not optimal in accommodating an abundance of small mammals (meadow voles, field mice, etc.) that serve as prey for Short-eared Owl. In addition, two bat species that were of initial concern, the NLEB and the Indiana Bat, were determined to be absent from the Site. Accordingly, the Project will not have significant adverse impacts upon plants or animals at or in the vicinity of the Site.

G. Impact on Agricultural Resources

While the Site is zoned for agricultural use, it has never been utilized for agriculture and it is not located within a NYS certified Agricultural District, nor is it prime farmland. Further, the Project involves manufacturing to support agricultural activities. Accordingly, the Project will not have a significant adverse impacts upon agriculture or agricultural uses.

H. Impact on Aesthetic Resources

Visual impact is defined as the change in visual quality or character of a landscape resulting from the introduction of new architectural or landscape elements. The nature and level of visual impact are functions of the context within which new elements are located and viewed, the degree to which they are visible, and the degree to which, as located and designed, they blend or conflict with other forms in the landscape. Visual impact can be positive or negative. Three factors – visibility, context, and design generally form the basis of a visual impact assessment.

From a visibility perspective, the Project is towards the interior of the Depot property in an isolated area. Therefore, its visibility from nearby structures and roadways will be virtually non-existent. From a context perspective, the Site had been used by the Army for the storage and disposal of munitions since WWII. Since the decommissioning of the base almost two decades ago, the Site and much of the surrounding property has been largely unused. Thus, from

a context perspective, the Project fits well. Accordingly, the Project will not have any significant adverse impacts upon aesthetic resources.

I. Impact on Historic and Archaeological Resources

The New York State Office of Parks, Recreation and Historic Preservation ("SHPO") has confirmed that there are no historic resources located on or near the Site. When the Depot was decommissioned in the 1990's SHPO originally designated most of the Depot as eligible for listing on the National Register of Historic Places. However, that designation has since been reconsidered and scaled down considerably. At present, and as confirmed by SHPO, the only portion of the Depot that is eligible for the National Register is the northern most portion of the Depot—an area bounded to the south by Perimeter Road, to the east by East Patrol Road, and to the west by North-South Baseline Road. This portion of the Depot is far to the north of the Site. A map showing the approximate location of the eligible portion (outlined in blue) in comparison to the Site (outlined in red) is annexed hereto as **Appendix I**. As for archaeological sites, while there are two present within the Depot (Archaeological Sites A09906.000229 and A09906.00230) that have been deemed eligible for the National Register of Historic Places, they are not located at or near the Site and the Site has been previously disturbed. Accordingly, the Project will not have any significant adverse impacts upon historic or archeological resources.

J. Impact on Open Space and Recreation

The Site is not presently used by the community as open space or as a recreation area. In fact, the entire Parcel is privately owned and it is not available for public use. The closest recreational resource is Sampson State Park over 2 miles away. The Project will have no impacts upon the State Park. Accordingly, the Project will not have any significant adverse impacts upon open space or recreation.

K. Impact on Critical Environmental Areas

There are no designated Critical Environmental Areas as described in Subdivision 6 NYCRR 617.14(g) on the Parcel or in proximity to the Project or Project area. Accordingly, the Project will not have any significant adverse impacts upon Critical Environmental Areas.

L. Impact on Transportation

The main entrance to the Site is located off of West Romulus Road which runs east/west between Route 96A and Route 96, both major highways designed to accommodate large volumes of traffic. West Romulus Road, which has been closed for the last several years, will be repaired and maintained as the main access route to the Site. The main Site access will be off of Route 96A to the west and generally all heavy trucks will be routed to enter from Route 96A. SDS is also investigating the possibility of accessing the Site via the former main Depot entrance off of State Route 96 and small amounts of traffic may utilize this entrance. Nonetheless, the majority of traffic will be limited to state highways (Routes 96 or 414 if coming from the south, Routes 96, 96A or 414 if coming from the north, and Route 5/U.S. 20 if coming from the east or west). All of these state highways are adequate to handle the modest level of truck traffic that will service the Project, therefore no roadway modifications or improvements (beyond repairs to West Romulus Road) are needed for the Project.

In terms of anticipated levels of traffic, peak traffic will occur Monday through Friday between 5:30 AM and 6:30 PM, the majority of which will be employees arriving and departing from work. Employment levels associated with Phase 1 will be approximately 66 jobs through the second year of operation of the Project. Eventually, over the ten year build-out, employment levels are expected to peak at approximately 125 employees the majority of which will work a

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shift from 6:30 AM to 4:30 PM, and incidental office staff will stay until 5:00 PM. Most employee traffic occurs outside the "normal" commuter peak hours. Additionally, SDS encourages employee carpooling, and a large population of current employees utilize ride sharing, and certain divisions will work at different times to reduce the amount of traffic to the Site. Nonetheless, these employment levels represent a very small portion of the jobs and level of traffic that the Depot historically experienced.

In addition to employee-related vehicle trips, there will be approximately 3-5 semitrailers and 4-5 small flatbed trailers making deliveries to the Site each day, 1 scrap metal truck delivery per week, and incidental small package deliveries each day (USPS, UPS and FedEx). Generally, the traffic generated by the delivery trucks would be spread out over the course of a day, in a manner that can easily be accommodated by the existing roadway network. These levels are consistent with traffic levels currently serving other areas at the Depot and no new infrastructure is necessary to service the Project. Accordingly, the Project will not have any significant adverse impacts upon transportation or the transportation network.

M. Impact on Energy and Utilities

The development of the Project will have minor impacts to energy and utilities.

1. Water

The Project will create a new demand for approximately 2,000 gallons of water per day for domestic usage to serve its employees and in manufacturing operations. Part of the daily water requirements will be collected rain water and water used in manufacturing operations will be recirculated and reused where practicable. There are currently existing water lines that serve the Site. These lines connect to the existing Seneca County Water District. Neither expansion of the water district nor extension within the water district is needed to service the Project.

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2. Sewer

The Project will generate approximately 1,500 gallons per day of liquid waste in the form of sanitary wastewater/sewage to the existing Romulus/Five Points Wastewater Treatment Plant (Sewer District 2). The Romulus/Five Points Wastewater Treatment Plant has capacity to serve the Project and existing sewer lines serve the Site. A sanitary sewer lateral will be required, however neither expansion of the sewer district nor extension within the district is needed.

Spent solutions generated as part of the manufacturing process are subject to federal pretreatment standards prior to discharge into sanitary sewer systems. However, the materials utilized in the galvanizing and/or pickling processes will be purified or recycled. Thus, it is not anticipated that any spent solutions will be sent to the Treatment Plant. Nonetheless, SDS will abide by all applicable state and federal regulations regarding spent solutions and best management practices will be employed to protect water quality.

3. Natural Gas and Electricity

The Project will create a new demand for approximately 850,000 kilowatt hours per year of energy. The New York State Electric and Gas Corporation services the Site and has sufficient capacity to accommodate the Project's energy needs. The Site will not require a new substation or an upgrade to an existing substation.

4. Summary of Impacts on Energy and Utilities

Overall, the development of the Project will have minor impacts to energy and utilities but, based on the above, the Project will not have any significant adverse impacts upon energy or utilities.

N. <u>Impacts on Noise and Light</u>

The existing noise environment near the proposed Project and surrounding area is mostly agricultural to the north and west but it is privately owned by Mr. Martin. To the south of the

proposed Project, the surrounding area is zoned WITE, and to the east, I/W. During the construction phase, the Project will temporarily generate noise that exceeds background levels. However, the areas where the work will take place are isolated from residential and recreational areas. In addition, any increase in noise levels during the construction phase will be short-term activities which take place during daylight working hours, when noise sensitivity is lowest. Furthermore, construction phases will be relatively short, and will comply with all applicable noise ordinances and laws. Overall, there will be temporary and minor impacts associated with noise during the construction phases of the Project.

Once the Project is operational, ambient noise levels will increase. Common noises would include vehicles traveling to and from the Site, loading and unloading of vehicles, and noises from operations within buildings. The location of the Site, isolated and well set back from adjoining uses, will minimize noise impacts. Thus, the Project will not have significant adverse impacts upon noise in the immediately surrounding area.

In terms of lighting, the Project will require night-time lighting at doorways and around building perimeters and in parking areas. However, all lighting associated with the Project will be LED dark sky compliant and will not cast significant amounts of light beyond the Site. In addition, as previously noted, the Site is isolated and well away from surrounding residential or recreational uses. Thus, the Project will not have significant adverse impacts upon lighting.

O. Impact on Human Health

A Health and Safety Plan ("HASP") prepared for the construction and operations of the facility is annexed hereto as **Appendix J**. The Project could have minor impacts to public health related to both temporary construction activities and long-term operations at the Site. As shown

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below, and based on the HASP for the Site, neither the construction nor the daily operations of the Project will have significant impacts on public health and safety.

1. Construction Activities

During the construction phase of the Project, construction personnel are likely to encounter a number of physical hazards that are typically associated with commercial construction. All Project construction will take place within the boundaries of the Site. Thus, the general public's exposure to any Site hazards will be limited. Fencing, signs, and barriers will be utilized around the Site during construction and, where necessary, will delineate construction areas and prevent the entry of unauthorized personnel. Appropriate signs will be posted to inform those entering the Site of potential construction hazards and appropriate actions to be taken while on the Project Site. Additionally, the Project will minimize risks to construction personnel by fully complying with applicable Occupational Safety and Health Administration ("OSHA") and New York State Labor Law requirements. Thus, it is anticipated that the construction work associated with the Project will not have a significant impact on public health and safety.

2. Operational Activities

During the operations of the Project, employees are likely to encounter a number of physical and chemical hazards that are typically associated with Project's operations. Due to the common use of hazardous substances for cleaning purposes, maintenance activities and other industrial uses, SDS will use and store small working quantities of hazardous substances at the Site. Many materials used for these purposes are characterized as hazardous under the Occupations Safety and Health Administration ("OSHA") regulation and the hazard communication statutes, including the Right-to-Know law. Therefore, SDS will be required to properly train its employees, and to handle and store all hazardous materials in compliance with

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all applicable state, federal and local regulations. A detailed Health and Safety Plan has been developed for the Project and is attached hereto as **Appendix J**. The Health and Safety Plan addresses operational responsibility for health and safety, hazard analysis including hazard notification processes, training programs, site control, environmental monitoring, spill containment and emergency response, etc.

It should be noted that while the galvanizing and pickling processes utilize hazardous chemicals, there are no plans to store large volumes of bulk chemicals. Limited amounts of such chemicals will be maintained on-Site as needed for operations. Moreover, there will be no hazardous waste generated by Project operations as all hazardous materials and purified and/or recycled. The following summarizes anticipated waste generation and disposal:

- bag house solids recyclable
- sludge from degreaser (approximately 1800 lbs per month)- tested to confirm non hazardous then sent to landfill for disposal
- acid wastes(approximately 3500 gallons/month) recycled
- ash (approximately 6,179 lbs/month) sold for repurposed use
- dross (approximately 12,359 lbs per month) returned to zinc supplier for reuse/repurposing

In addition, the operation of the Project will increase the average number of visitors to the Site, namely employees and delivery persons, and will likely lead to a slight increase in the need for police, sheriff, and fire response calls to the Site. However, the Romulus Fire Department (with Mutual Aide Assistance provided by the Varick and Ovid Fire Departments), South Seneca Ambulance, Seneca County Sheriff's Department, and the New York State Police are anticipated to have sufficient resources to handle any minimal increases. Overall, neither the construction

nor the daily operations of the Project will have significant adverse impacts upon public health and safety.

P. Consistency with Community Plans

As noted above, the Project is consistent with local and regional planning documents and goals. The Project is the type of revitalization, redevelopment and return to productive use long-envisioned for the Depot by the Town and County. The Comprehensive Plan notes that the Depot is subject to an intensively active effort to attract activities which will be compatible with the Town's lifestyle, while providing new jobs. The Comprehensive Plan notes that the Depot benefits from "excellent highways, particularly north and south, which connect with the New York Thruway on the north and the Southern Tier Expressway on the south," and notes that the closure of the Depot was highly detrimental. The Comprehensive Plan specifically envisions a transition from a government-based economy to private sector economic growth. SDS' Project is exactly this type of development, and will create new jobs with competitive salaries and benefits packages.

In addition, both the Comprehensive Plan and the 2013 Varick/Romulus Depot Zoning Study note the importance of the maintenance of the white deer population. The Project will have no impact upon the white deer herd, and in fact, Earl Martin has been instrumental in maintaining that population through Deer Haven Park.

Although a rezoning may be required, the use is consistent with the industrial, manufacturing and warehousing uses already permitted on the Parcel and permitted on the Site in the past, and will not set a negative precedent for zoning at the Depot. The Project is also consistent with the Agricultural Support Business currently permitted on the Site by Special Permit. While the Project is different from the current land use components of the Depot, as

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much of the property is vacant, this is a unique situation where a former military depot is proposed for redevelopment. In addition, the Site is sufficiently isolated so that it will not negatively impact any other land uses.

The proposed Project is not expected to increase the population of the Town by more than 5%. Although the Site is not currently developed and utilities will be constructed for the Project, sufficient capacity exists at the Site for sewer, water, electric and fiber optic. Upgrades to substations or expansion of water and sewer districts are not required for or contemplated by the Project. In fact, given the well-known infrastructure challenges on the Depot property, this Site is uniquely situated and optimal due to the existing infrastructure. In addition, current emergency services are anticipated to be sufficient to serve the Project.

The Project is consistent with the overall vision and goals of the Town and County for the return to productive use and economic development of the Depot, the Parcel and the Site.

Accordingly, the Project will not have any significant adverse impacts to community plans.

Q. Consistency with Community Character

While the Project may differ from existing community character given the status of the Site as a vacant former Army Depot, the Project is not inconsistent with existing community character.

To the east and south of the Parcel, the surrounding areas are in a WITE or I/W district. Therefore, the Project is consistent with these warehouse and industrial uses. However, the Site is currently zoned Agricultural. While the Project is intended to support agriculture, it is a manufacturing operation. However, the Project will benefit the community by stimulating the local economy, creating new jobs with competitive salaries and benefits packages, and attracting new residents and businesses to the area, which will increase the local tax base and quality of



life. The Site is also sufficiently isolated, as it is a portion of a 75 acre parcel, and part of approximately 6,800 acres owned by Earl Martin in total. Overall, the Project will not harm any activities on neighboring properties.

The Project will not replace or eliminate existing facilities, structures or areas of historic importance to the community. It is anticipated that community services, including schools, police and fire, are sufficient to accommodate the Project and will not need to be expanded. No affordable or low-income housing will be displaced by the Project. Though the Project is located within 2.2 miles of Sampson State Park, the Project will not interfere with the use or enjoyment of the Park.

Although the Project differs from the existing architectural scale and natural landscape of the Site, as the Site is currently vacant, as noted above, the Parcel is large and isolated, and no impacts to neighboring properties are anticipated. The visual character of the natural landscape will not be noticeably different due to the Parcel size. In addition, redevelopment of the Site is a goal of both the Town and the County.

The Project will not introduce objectionable lighting, noise or significant traffic to the area, and to the extent there is any lighting, noise or traffic at the Site, the size of the Parcel and the land owned by Earl Martin overall mitigates any potential impact to the community.

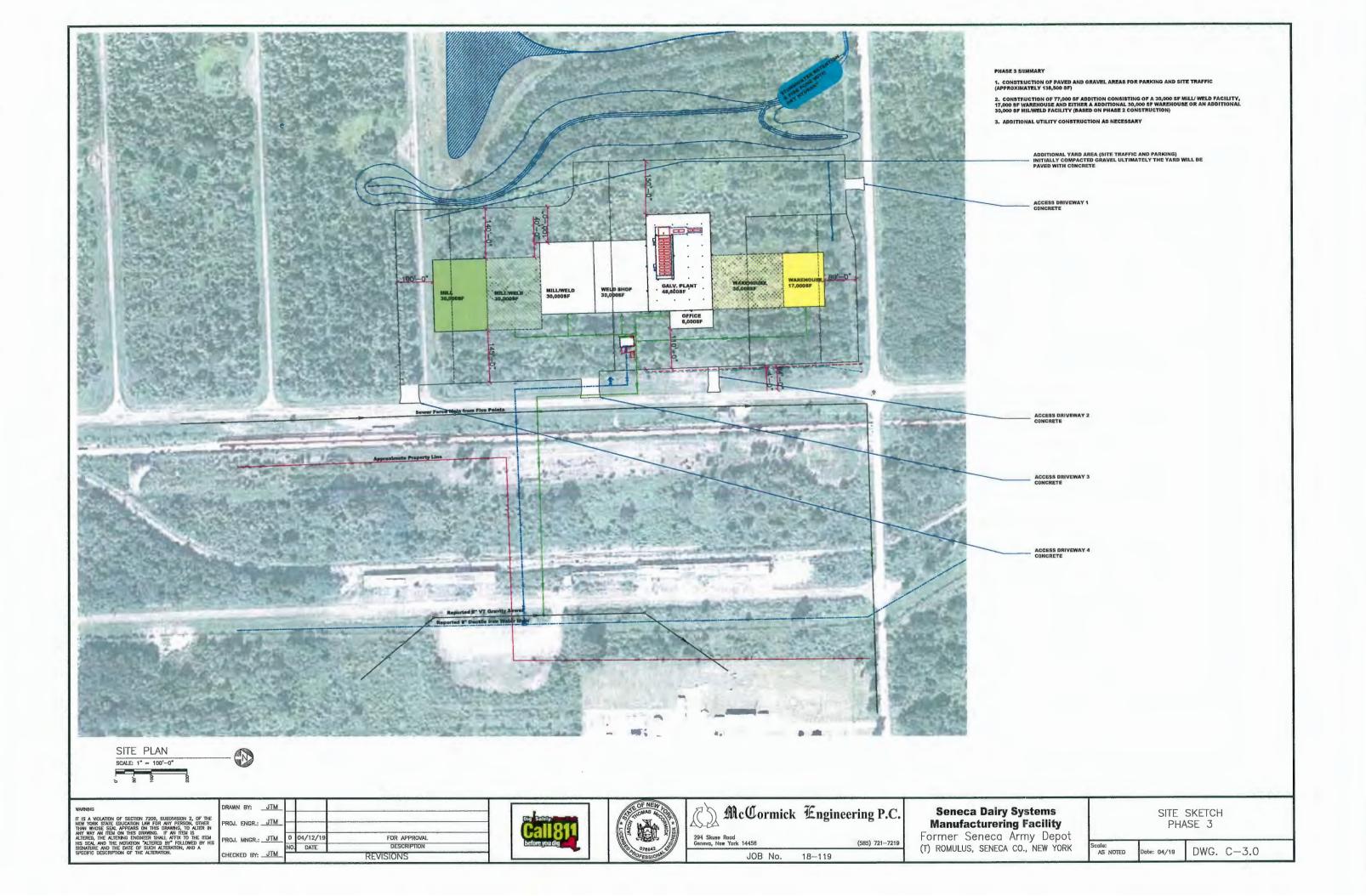
Accordingly, the Project will not have any significant adverse impacts to community character.

IV. Conclusion

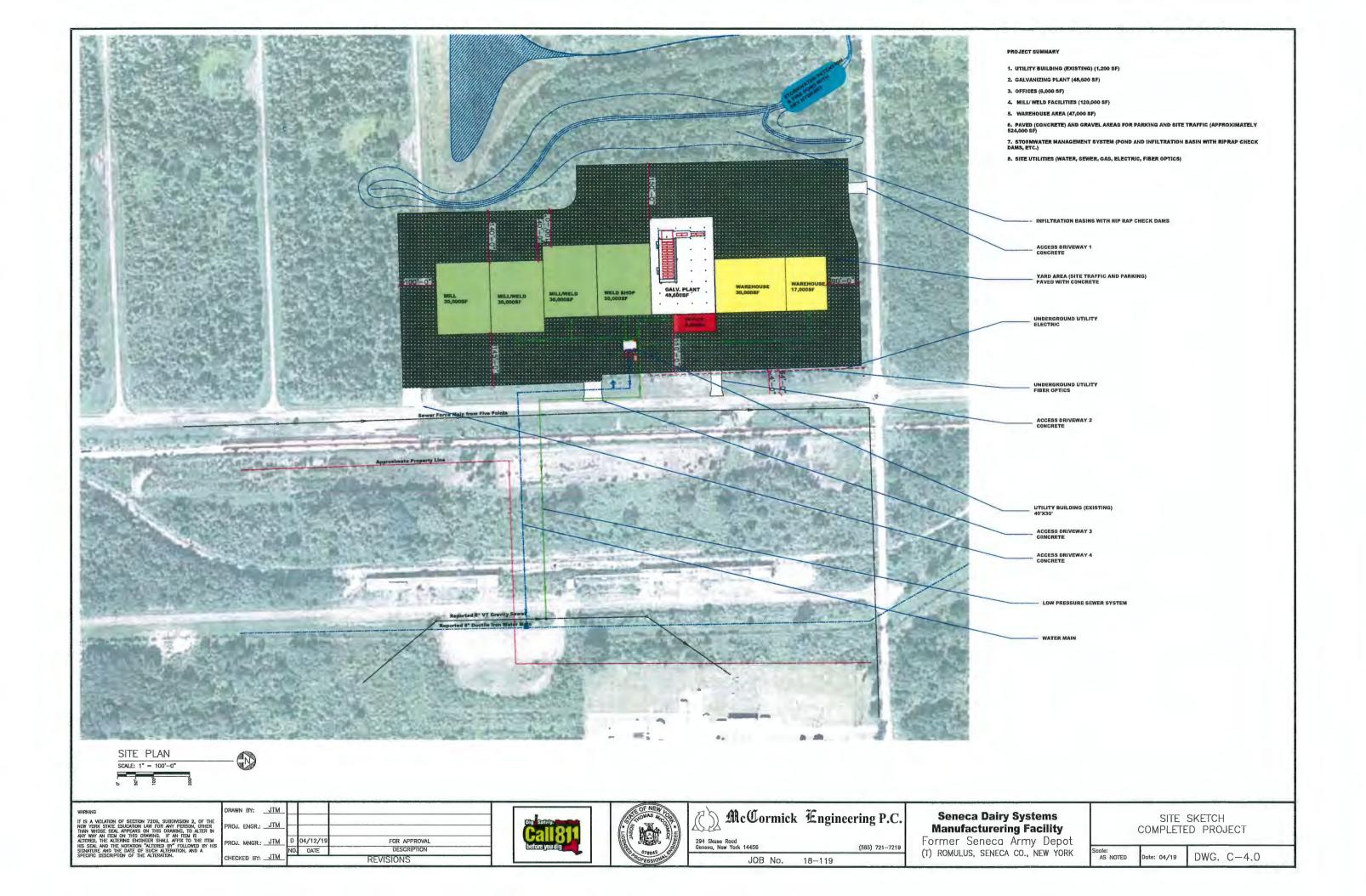
A number of temporary and/or minor environmental impacts have been identified in connection with the Project. However, a thorough analysis of these potential impacts reveals that where necessary, such impacts have been mitigated to the greatest extent possible by the design of the Project and that none of these impacts will be significant. Accordingly, it is respectfully submitted that it is appropriate that the lead agency issue a negative declaration for the Project.

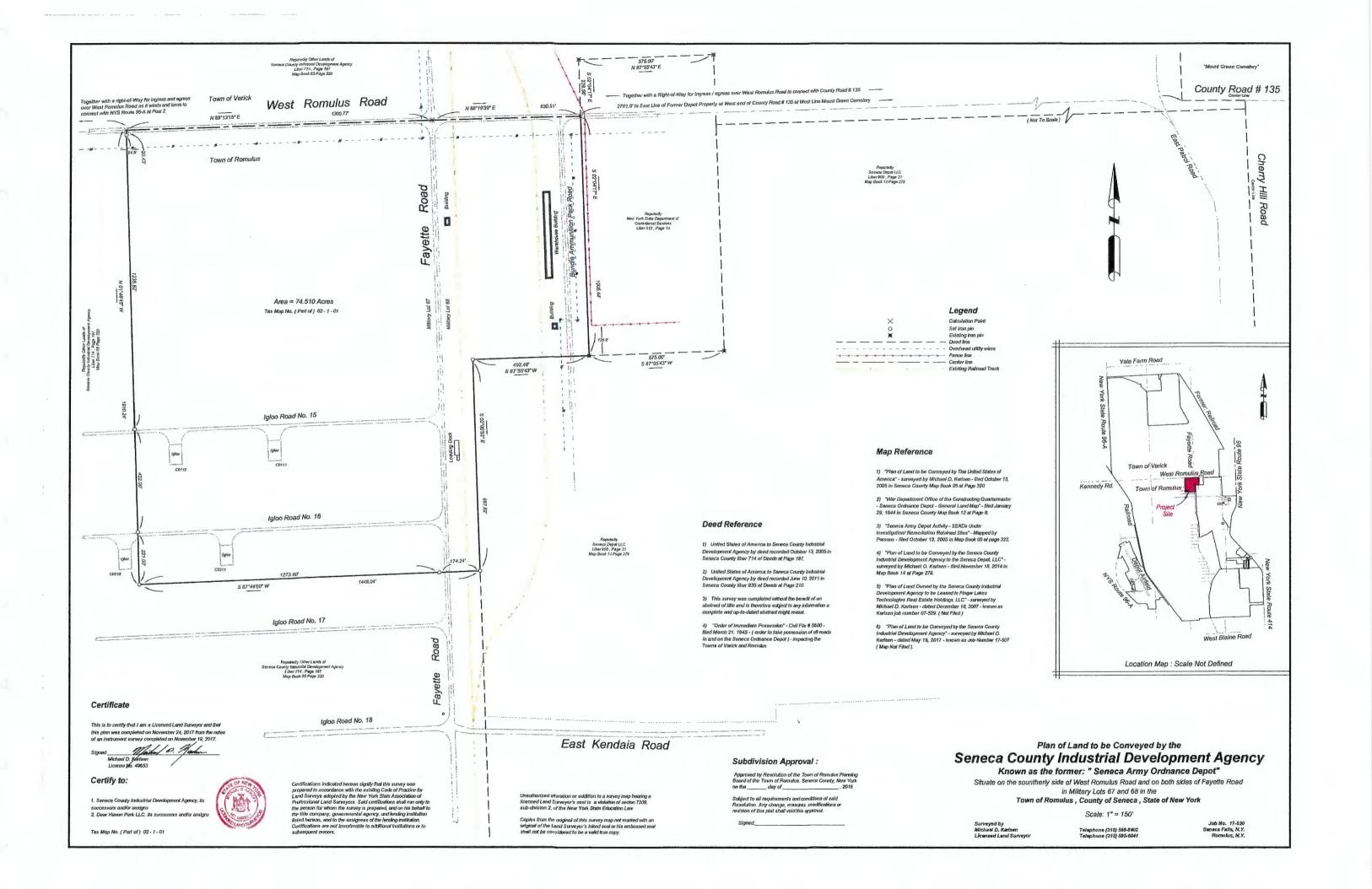
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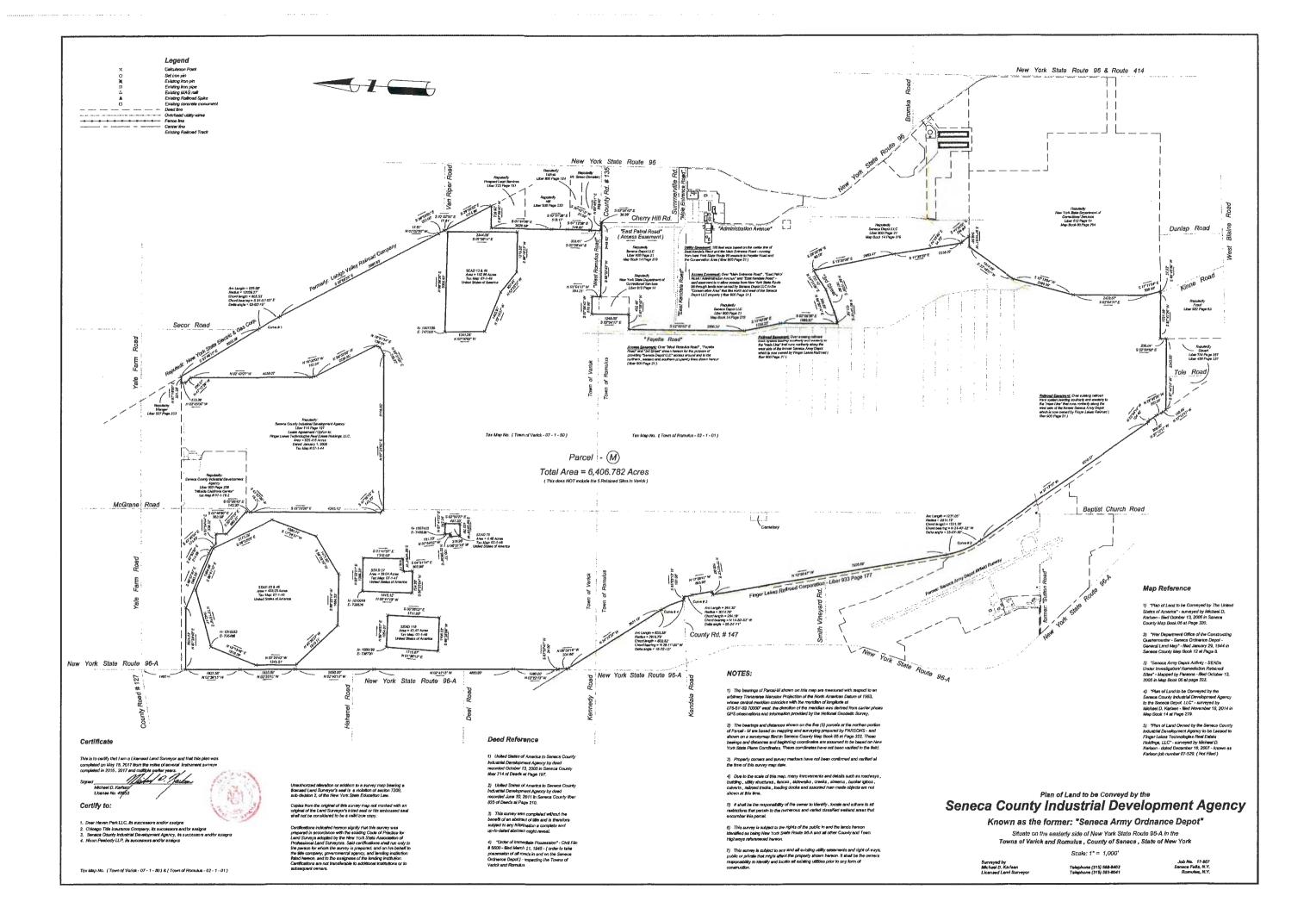
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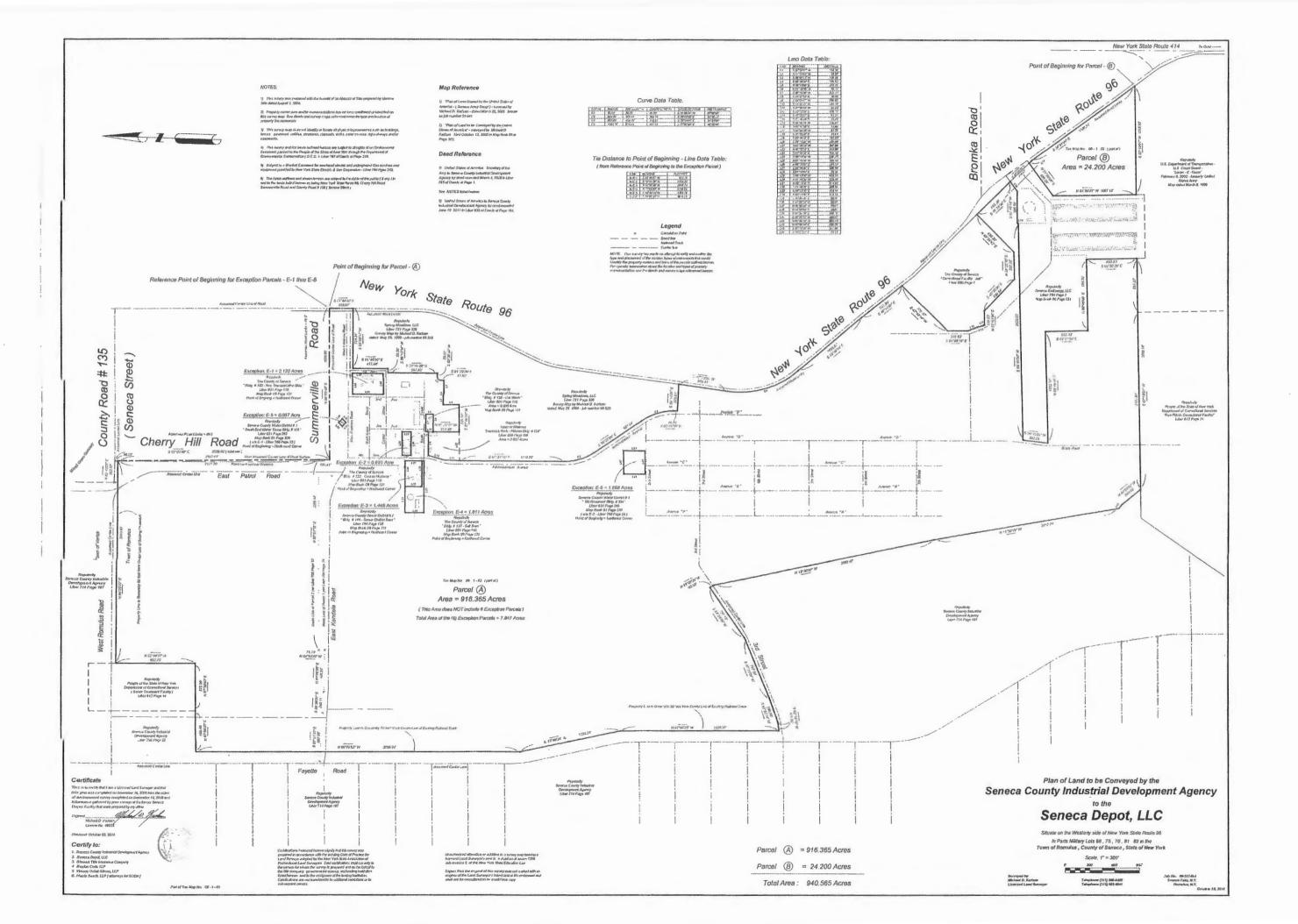


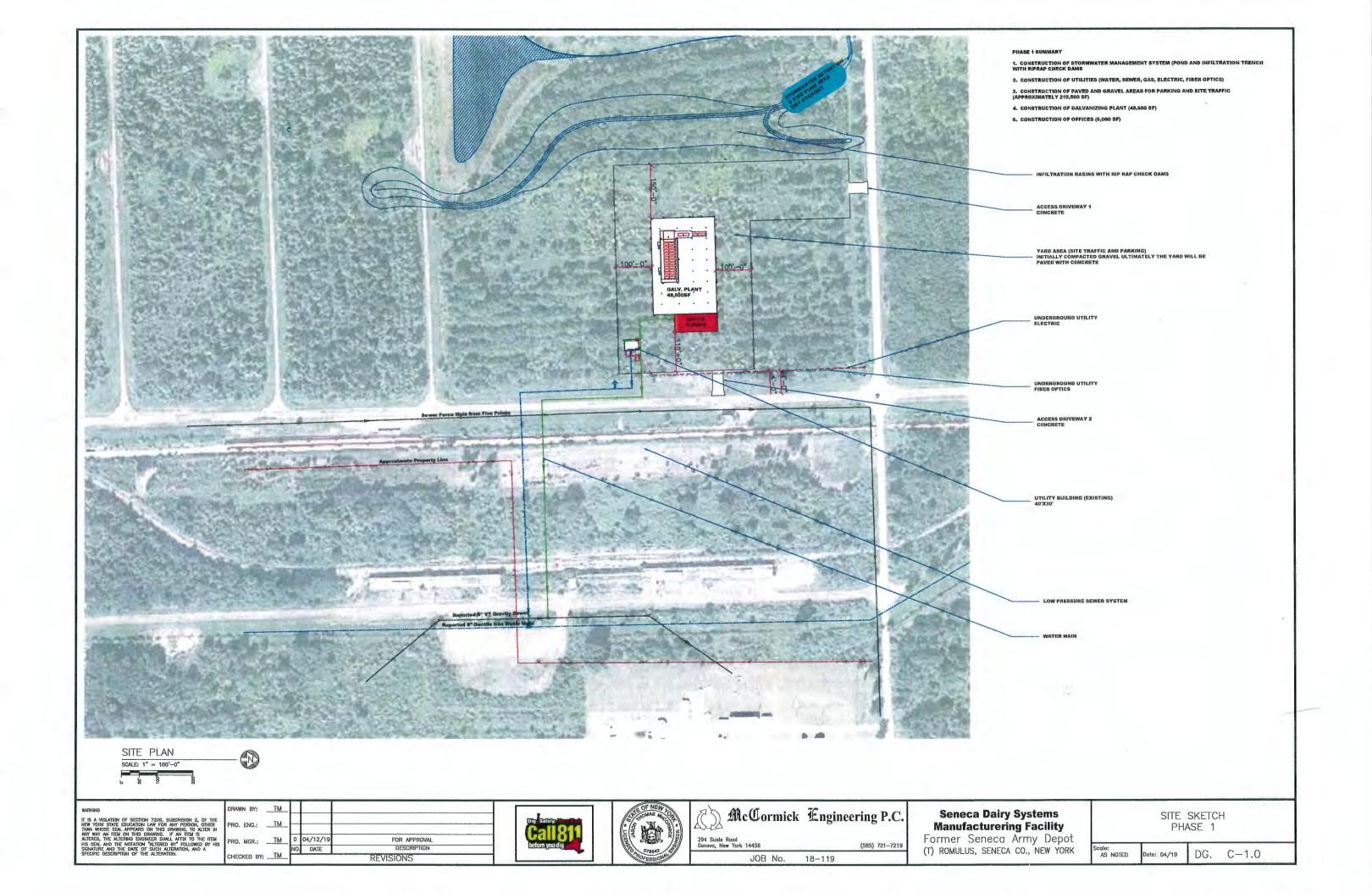


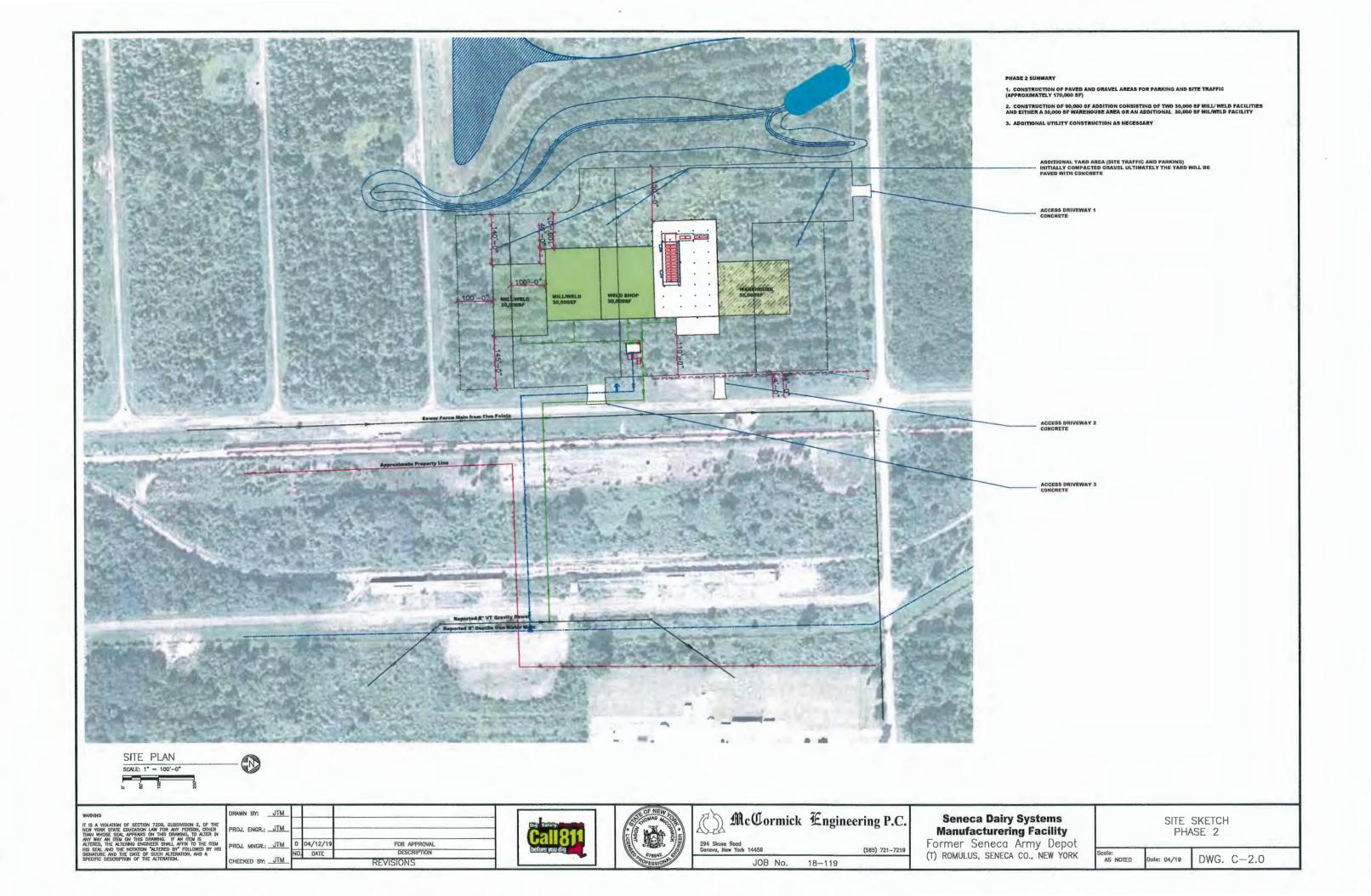












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Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Seneca Dairy Systems Agricultural Manufacturing Facility		
Project Location (describe, and attach a general location map):		
Southwest corner of West Romulus Road and Fayette Road, on the former Seneca Army De	epot, in the Town of Romulus, New Y	/ork, 14588
Brief Description of Proposed Action (include purpose or need):		
Seneca Dairy Systems LLC ("SDS") proposes to redevelop a portion of an approximately 75 Road ("Parcel") located on the former Seneca Army Depot ("SEDA" or "Depot") in the Town of redevelopment entails revitalizing a portion of the Parcel by constructing and operating the Senecet"), a state-of-the-art galvanizing mill and related operations to allow SDS to expand of company's products. The Project will result in the development of approximately 18 acres of Romulus Road and Fayette Road ("Site"). The Project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in multiple phases of the project will be completed in the project will be completed	acre parcel of land bounded on the rof Romulus ("Town"), in Seneca Cou eneca Dairy Systems Agricultural Missisting operations and meet growing the Parcel and will be sited at the sover approximately ten years.	north by West Romulus nty, New York. The anufacturing Facility g demand for the outhwest corner of West
Name of Applicant/Sponsor:	Telephone: 315 246 1515	
Earl Martin		
Lati Watur	E-Mail: emartin@senecadairysy	stems.com
Address: 3236 Hoster Rd		
City/PO: Seneca Falls	State: New York	Zip Code: 13148
Project Contact (if not same as sponsor; give name and title/role):	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone:	
	E-Mail:	
Address:	J.,,	
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)						
Government Entity	If Yes: Identify Agency and Approval(s) Required	Applicati (Actual or				
a. CityCounsel, TownBoard, ✓ Yes☐No or Village Board of Trustees	Romulus Town Board Rezoning	June 2019				
b. City, Town or Village Yes No Planning Board or Commission	Romulus Planning Board Special Use Permit	June 2019				
c. City, Town or ✓Yes No Village Zoning Board of Appeals	Romulus ZBA Possible Area Variance	TBD				
d. Other local agencies ☐Yes ✓No						
e. County agencies ☐Yes ✓No						
f. Regional agencies Yes No						
g. State agencies ✓ Yes□No	NYSDEC Air Permit and potential Stream Disturbance Permit for possible creek bank work	TBD				
h. Federal agencies ☐Yes ☑No						
 i. Coastal Resources. i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? 						
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?iii. Is the project site within a Coastal Erosion Hazard Area?			☐ Yes ☑ No ☐ Yes ☑ No			
C. Planning and Zoning						
C.1. Planning and zoning actions.						
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the ☐Yes ☑No only approval(s) which must be granted to enable the proposed action to proceed? • If Yes, complete sections C, F and G. • If No, proceed to question C.2 and complete all remaining sections and questions in Part 1						
C.2. Adopted land use plans.						
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?						
b. Is the site of the proposed action within any lo Brownfield Opportunity Area (BOA); designa or other?) If Yes, identify the plan(s):	ocal or regional special planning district (for eated State or Federal heritage area; watershed		□Yes☑No			
c. Is the proposed action located wholly or parti	ally within an area listed in an adopted munici	pal open space plan.	☐Yes ✓ No			
or an adopted municipal farmland protection If Yes, identify the plan(s):						

C.3. Zoning						
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? The Parcel is within the following Town of Romulus Zoning Ordinance Zoning Districts: A-Agriculture; I/W-Industrial/Warehousing; V Industrial, Transportation, Energy.	☑Yes□No VITE- Warehouse,					
b. Is the use permitted or allowed by a special or conditional use permit?	☐ Yes No					
c. Is a zoning change requested as part of the proposed action? If Yes, i. What is the proposed new zoning for the site? Request rezoning of the Parcel to WITE to allow manufacturing & warehousing by special perm						
C.4. Existing community services.						
a. In what school district is the project site located? Romulus Central School District						
b. What police or other public protection forces serve the project site?						
Area is supported by the Seneca County Sheriffs Department along with the NYS Police.						
c. Which fire protection and emergency medical services serve the project site? Romulus Fire Department and South Seneca Ambulance. Varick Fire Department and Ovid Fire Department provide Mutual Aide A	ssistance					
d. What parks serve the project site? Sampson State Park.						
D. Project Details						
D.1. Proposed and Potential Development						
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed components)? Agricultural Manufacturing.	include all					
b. a. Total acreage of the site of the proposed action? 75 acres						
b. Total acreage to be physically disturbed? 18 acres						
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 6800 acres						
c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, square feet)? % Units:	☐ Yes☑ No housing units,					
d. Is the proposed action a subdivision, or does it include a subdivision?	□Yes ☑ No					
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)						
ii. Is a cluster/conservation layout proposed?iii. Number of lots proposed?iv. Minimum and maximum proposed lot sizes? Minimum Maximum	□Yes□No					
e. Will the proposed action be constructed in multiple phases?	✓Yes□No					
i. If No, anticipated period of construction: months ii. If Yes:						
• Total number of phases anticipated 3						
Anticipated commencement date of phase 1 (including demolition) Fall month 2019 year						
Anticipated completion date of final phase DEC month 2030 year						
Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:						
determine timing or duration of future phases: Refer to the attached detailed Project description. Generally, all phases of the Project are anticipated to be complete within ten yea of the Project.	rs from commencement					

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	t include new resid				□Yes☑No
If Yes, show num	bers of units propo One Family	sed. Two Family	Three Family	Multiple Family (four or more)	
	One Family	1 WO FAITHY	Tinee Paining	with the raining from or more	
Initial Phase			-		
At completion of all phases					
of all phases					
g. Does the propo	sed action include	new non-residentia	al construction (incl	uding expansions)?	∠ Yes No
If Yes,					
i. Total number	of structures	1	act haidhti	200' width, and 1000' langth	
iii Approximate	extent of huilding	snace to be heated	or cooled:	200' width; and 1000' length 220,000 square feet	
					DIV DIV.
				Il result in the impoundment of any lagoon or other storage?	∠ Yes N o
If Yes,	s creation of a wate	i supply, leservoir	, polid, lake, waste	lagoon of other storage:	
	impoundment: Sto	rm Water run off.			
	oundment, the prin		water:	Ground water Surface water strea	ms Other specify:
	off and rainwater coll			1.1	
iii. If other than w	vater, identify the ty	ype of impounded/	contained liquids ar	id their source.	
iv Approximate	size of the propose	d impoundment.	Volume:	1.0 million gallons; surface area:	.5 acres
v. Dimensions o	f the proposed dam	or impounding st	ructure:	10' height;1500' length	
				tructure (e.g., earth fill, rock, wood, con	icrete):
Partially clay lined	banks with the main I	oody below grade. Th	nere will be stone chec	k dams, stone lined basins and grass wales	
D.2. Project Op	arations				
		, ,	1 1 .	1	
				during construction, operations, or both' s or foundations where all excavated	? ☐Yes ✓No
materials will r		ation, grading of in	istaliation of utilitie	s of foundations where all excavated	
If Yes:	cinam onsite)				
i. What is the pu	rpose of the excava	ation or dredging?			
ii. How much ma	terial (including ro	ck, earth, sediment	s, etc.) is proposed	to be removed from the site?	
 Volume 	(specify tons or cu	bic yards):			
 Over wh 	at duration of time	?		lged, and plans to use, manage or dispos	
iii. Describe natur	re and characteristi	cs of materials to b	e excavated or dred	lged, and plans to use, manage or dispos	se of them.
iv. Will there be	onsite dewatering	or processing of ex	cavated materials?		☐Yes ☐No
If yes, descri				-13832113	
v. What is the to	tal area to be dredg	ged or excavated?		acres	
				acres	
	oe the maximum de avation require blas		or areaging?	feet	☐Yes ☐No
	will be used for site g				
	THE ST GOOD TO TORON	, adding.			
b. Would the proj	posed action cause	or result in alterati	on of, increase or d	ecrease in size of, or encroachment	✓ Yes No
			ach or adjacent area		
If Yes:					
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): The stormwater management system will include a grass swale that will discharge to Reeder Creek					
description):	he stormwater mana	gement system will in	nclude a grass swale t	hat will discharge to Reeder Creek	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:			
The site currently drains naturally to Reeder Creek. A series of Infiltration Basins and Stormwater Retention Pond			
collect and dispose of stormwater runoff from the developed site. The discharge from the developed site will be less the	nan the existing		
condition. Minor bank work on Reeder Creek will be required for the swale outlet. This area of Reeder Creek was pre-	viously reshaped		
(straightened) by the Army. Based on these facts there would be no adverse affects on Reeder Creek.			
iii. Will the proposed action cause or result in disturbance to bottom sediments?	☐Yes Z No		
If Yes, describe:	ETXEZINT-		
If Yes:	☐ Yes ✓ No		
 acres of aquatic vegetation proposed to be removed: 			
expected acreage of aquatic vegetation remaining after project completion:			
• purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):			
proposed method of plant removal:			
if chemical/herbicide treatment will be used, specify product(s):			
v. Describe any proposed reclamation/mitigation following disturbance:			
Vegetative cover will be reestablished upon final grading of the swale. If necessary temporary ground cover will be established prior	to final grading.		
c. Will the proposed action use, or create a new demand for water?	✓ Yes □No		
If Yes:			
i. Total anticipated water usage/demand per day: 2000 gallons/day			
ii. Will the proposed action obtain water from an existing public water supply?	✓ Yes ☐ No		
If Yes: Name of district or service area. Seneca County Water District 1. Part of our water requirements will be collected rain	n water		
1 value of district of Service area.			
Does the existing public water supply have capacity to serve the proposal? Let be a sixth of the sixtho	✓ Yes No		
• Is the project site in the existing district?	✓ Yes No		
• Is expansion of the district needed?	☐ Yes ☑ No		
Do existing lines serve the project site? Will line actually a statistic and site of the control of the c	✓ Yes No		
iii. Will line extension within an existing district be necessary to supply the project? If Yes:	□Yes ☑ No		
Describe extensions or capacity expansions proposed to serve this project:			
Describe extensions of capacity expansions proposed to serve this project.			
Source(s) of supply for the district: <u>Water comes from the Village of Waterloo Water Treatment Plant which is supplied.</u>	ed by Seneca Lake		
iv. Is a new water supply district or service area proposed to be formed to serve the project site?	☐ Yes ✓ No		
If, Yes:			
Applicant/sponsor for new district:			
Date application submitted or anticipated:			
Proposed source(s) of supply for new district:			
v. If a public water supply will not be used, describe plans to provide water supply for the project:			
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: gallons/	minute.		
d. Will the proposed action generate liquid wastes?	✓ Yes □No		
If Yes:			
i. Total anticipated liquid waste generation per day:1500 gallons/day			
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components	nents and		
approximate volumes or proportions of each):			
Sanitary wastewater/sewage. This facility will not discharge any industrial wastewater streams to the sanitary sewer system.			
iii. Will the proposed action use any existing public wastewater treatment facilities?	✓ Yes No		
If Yes:	I GZ IVO		
Name of wastewater treatment plant to be used: Romulus/Five Points Wastewater treatment plant			
Name of district: Sewer District 2			
Does the existing wastewater treatment plant have capacity to serve the project?	✓ Yes □No		
• Is the project site in the existing district?	✓ Yes ☐No		
Is expansion of the district needed?	Yes V No		

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 Do existing sewer lines serve the project site? Will a line extension within an existing district be necessary to serve the project? 	☑Yes ☐No ☐Yes ☑No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project: A sanitary sewer lateral will be required from the Project Site to the existing Sanitary Sewer System	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?If Yes:	□Yes ☑No
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec receiving water (name and classification if surface discharge or describe subsurface disposal plans):	ifying proposed
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction?	☑ Yes □No
If Yes: i. How much impervious surface will the project create in relation to total size of project parcel? Square feet or 17.2 acres (impervious surface)	
Square feet or 75 acres (parcel size)	
ii. Describe types of new point sources. Stormwater runoff from the building roof(s) and parking/paved areas	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p groundwater, on-site surface water or off-site surface waters)?	roperties,
Storm water discharges will be directed to on-site infiltration basins (IBs). The IBs will flow through Rip Rap check dams and into a	etention pond (RP)
The RP will have a controled outlet which will release the water into grass swale that will flow into Reeder Creek watershed area. Ref	
 If to surface waters, identify receiving water bodies or wetlands: The on-site infiltration basin and stormwater pond will discharge to Reeder Creek. Post development discharge rates will identified to the control of the c	pe below current
Will stormwater runoff flow to adjacent properties?	☐Yes ✓ No
<i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify:	∠ Yes N o
<i>i.</i> Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
Material handling equipment, delivery vehicles, and during construction of the facility, heavy equipment.	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) Process emissions and gas furnaces for facility heating.	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?	☑ Yes □No
If Yes: i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year)	□Yes ☑No
ii. In addition to emissions as calculated in the application, the project will generate:	
•0 Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•O Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
• Tons/year (short tons) of Perfluorocarbons (PFCs)	
• O Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
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h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes: i. Estimate methane generation in tons/year (metric): ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to ge electricity, flaring):	□Yes ✓ No
 i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): 	
 j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply):	∐Yes ⊿ No
 iii. Parking spaces: Existing Proposed Net increase/decrease	☐Yes☐No access, describe: ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? If Yes: i. Estimate annual electricity demand during operation of the proposed action: 850,000 kw/n per year ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/lo other): NYSEG grid power iii. Will the proposed action require a new, or an upgrade, to an existing substation?	✓Yes No ocal utility, or ✓Yes ✓No
1. Hours of operation. Answer all items which apply. ii. During Operations: • Monday - Friday:	

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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction,	☑ Yes □ No
operation, or both?	
If yes:	
i. Provide details including sources, time of day and duration:	
Excavating the site and erecting the buildings will create slight increases in noise Monday - Friday from 7am - 5pm No Increase in current noise levels is expected once construction is complete	
	☐ Yes ☑ No
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	
Describe: The site is located a significant distance from the nearest public access point and is covered with forest & other sound	d deadening growth
n. Will the proposed action have outdoor lighting?	☑ Yes □ No
If yes:	
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
Light at doorways and building perimeter lights. All lights will be LED dark sky compliant and will not cast light past property lines. Add	ditionally trees and
other shrubbery will serve as barriers for additional screening of on-site lighting.	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?	☐ Yes ☑ No
Describe:	
o. Does the proposed action have the potential to produce odors for more than one hour per day?	☐ Yes ☑ No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	103 2110
occupied structures:	
	44-44
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	☐ Yes ☑ No
or chemical products 185 gallons in above ground storage or any amount in underground storage?	
If Yes:	
i. Product(s) to be stored	
ii. Volume(s) per unit time (e.g., month, year)	
iii. Generally, describe the proposed storage facilities:	
III. Ocherany, desertoe the proposed storage facilities.	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	☐ Yes ☑ No
insecticides) during construction or operation?	
If Yes:	
i. Describe proposed treatment(s):	
ii. Will the proposed action use Integrated Pest Management Practices?	☐ Yes ☑No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal	✓ Yes □No
of solid waste (excluding hazardous materials)?	
If Yes:	
i. Describe any solid waste(s) to be generated during construction or operation of the facility:	
 Construction: 10 tons per Year (unit of time) Operation: 20 tons per Year (unit of time) 	
• Operation: 20 tons per Year (unit of time)	
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:	
Construction: All construction debris will be recycled to the max extent feasible.	
Operation: All solid waste material will be placed into dumpsters and sent to recycling centers where feasible.	
Operation. All solid waste material will be placed into dampsters and serie to recycling centers where readistic.	
iii. Proposed disposal methods/facilities for solid waste generated on-site:	
 Construction: All construction debris will be recycled to the max extent feasible. Items that can not be recycled will be defined by the construction. 	licnosed of at an
approved solid waste landfill facility.	isposed of at all
	that ann not bo
 Operation: All solid waste material will be placed into dumpsters and sent to recycling centers where feasible. Items to recycled will be disposed of at an approved solid waste landfill facility. 	nat can not be
recycled will be disposed of at an approved solid waste fatigiting facility.	

s. Does the proposed action include construction or modification of a solid waste management facility?				
If Yes: i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or				
	aste proposed	I for the site (e.g., recycling or	transfer station, compostin	g, landfill, or
other disposal activities):	**			
•Tons/month, if transfer	or other non-	combustion/thermal treatment	or	
Tons/hour, if combustice	on or thermal	treatment	, 01	
iii. If landfill, anticipated site life:				
t. Will the proposed action at the site invol			prage or disposal of hazard	ous TYes No
waste?	ve me comme	oroidi gonordiion, trodinioni, ste	riage, or disposar or nazard	045 1 1 05 2 1 1 0
If Yes:				
i. Name(s) of all hazardous wastes or cor	stituents to b	e generated, handled or manag	ed at facility:	
ii. Generally describe processes or activit	an involving	hazardous wastes or constituer	ato:	
ii. Generally describe processes of activity	es involving			
iii. Specify amount to be handled or generation				
iv. Describe any proposals for on-site min	imization, red	cycling or reuse of hazardous o	constituents:	
v. Will any hazardous wastes be disposed	l at an existing	o offsite hazardous waste facili	ity?	□Yes□No
If Yes: provide name and location of facility				
_				
If No: describe proposed management of a	ny hazardous	wastes which will not be sent	to a hazardous waste facilit	y:
4				
The state of the s				
E. Site and Setting of Proposed Action				
E.1. Land uses on and surrounding the	project site			
a. Existing land uses.				
i. Check all uses that occur on, adjoining	g and near the	project site.		
☐ Urban ☑ Industrial ☑ Commerci ☐ Forest ☐ Agriculture ☐ Aquatic	al 🔲 Resid	dential (suburban) 💆 Rural	(non-farm)	
Forest Agriculture Aquatic	✓ Othe	r (specify): Successorial Hardwood	Ju Alea	
ii. If mix of uses, generally describe:	in of forests on	d has seems assistibuted load on an	rt of the site. Most of the area	a rural with poorby
This site is in close proximity to significant amoun Industrial and commercial zoned property.	is or forests an	d has some agricultural land on pa	it of the site. Most of the area i	s rural with nearby
b. Land uses and covertypes on the project	site.			
Land use or		Current	Acreage After	Change
Covertype		Acreage	Project Completion	(Acres +/-)
 Roads, buildings, and other paved or i surfaces 	mpervious	8.5	25.25	+16.75
• Forested		0	0	0
36 1 1 1 1 1 1 /	0.00	0		0
 Meadows, grasslands or brushlands (nagricultural, including abandoned agricultural) 		46.4	29.65	-16.75
Agricultural				
(includes active orchards, field, greenl	nouse etc.)	0	0	0
Surface water features				_
(lakes, ponds, streams, rivers, etc.)		1.0	1.0	0
Wetlands (freshwater or tidal) 1.1 1.1 0				
Non-vegetated (bare rock, earth or fill)	0	0	0
			3	
• Other				
Describe: Successional Hardwood Areas		18	18	0

•
•
•
•
•
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0

c. Is the project site presently used by members of the community for public recreation? i. If Yes: explain: This is a secured area and is not open to the public	□Yes☑No
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes,	∏Yes ⊬ No
i. Identify Facilities:	
e. Does the project site contain an existing dam?	☐ Yes ✓ No
If Yes:	_
i. Dimensions of the dam and impoundment:	
• Dam height: feet	
• Dam length: feet	
• Surface area: acres	
Volume impounded: gallons OR acre-feet	
ii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection:	
m. 1104 de date and sammanze results of tast hisperton.	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility,	☐ Yes ✓ No
or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil	lity?
If Yes:	
i. Has the facility been formally closed?	☐Yes☐ No
If yes, cite sources/documentation:	
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:	
iii. Describe any development constraints due to the prior solid waste activities:	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin	✓ Yes No
property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?	
If Yes: i Describe waste(s) handled and waste management activities including approximate time when activities occurry.	ed.
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred While SEAD 66 is located to the East of Fayette Road and the Project Site, and purportedly stored certain chemicals, we have not sany hazardous materials on the Parcel.	pecifically identified
any nazardous materiais on the Parcei.	
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any	✓ Yes No
remedial actions been conducted at or adjacent to the proposed site?	
If Yes:	
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site	∠ Yes No
Remediation database? Check all that apply:	
 ☐ Yes – Spills Incidents database ☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): 850006 See attached Provide DEC ID number(s) 	piect description
✓ Yes – Environmental Site Remediation database Provide DEC ID number(s): 850006 See attached Provide DEC ID number(s)	ojoot decomption
_	
ii. If site has been subject of RCRA corrective activities, describe control measures: An environmental easement is in place near the Site and restricts access to groundwater and other land uses until remedial actions restrictions apply only to that portion of the Parcel east of Fayette Road and do not apply to the Site. See attached detailed Project.	have been taken. The description.
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s): 850006 Entire Depot property is in database. Also see attached Project description.	✓ Yes No
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):	
The US Army has completed remedial actions on that portion of the Parcel east of Fayette Road in SEAD 66 within the Depot. The any environmental easements/restrictions. Please see attached Project description.	Site is not subject to
any en vironmental easements/restrictions. Please see attached Project description.	

 v. Is the project site subject to an institutional control If yes, DEC site ID number: Describe the type of institutional control (e.g. Describe any use limitations: 			☐ Yes ☑ No
 Describe any engineering controls: Will the project affect the institutional or engineering Explain: 	gineering controls in place?		☐ Yes ☐ No
E.2. Natural Resources On or Near Project Site			
a. What is the average depth to bedrock on the project	site?	6 feet	
b. Are there bedrock outcroppings on the project site? If Yes, what proportion of the site is comprised of bed		%	□Yes☑No
c. Predominant soil type(s) present on project site:	Romulus Silty Clay Loam Darien Silt Loam 0-3% slope Angola Silt Loam 0-3% slope	12.47 % 80.20 % 7.32 %	
d. What is the average depth to the water table on the	project site? Average: 6'6" fe	et	
e. Drainage status of project site soils: Well Draine Moderately Poorly Drain	Well Drained: 38 % of site and 22 % of site		
f. Approximate proportion of proposed action site with	n slopes:	100 % of site % of site % of site	
g. Are there any unique geologic features on the proje If Yes, describe:			☐ Yes ✓ No
h. Surface water features. i. Does any portion of the project site contain wetland ponds or lakes)?	ds or other waterbodies (including stre	eams, rivers,	☑ Yes□No
ii. Do any wetlands or other waterbodies adjoin the pr	roject site?		∠ Yes No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i. <i>iii</i> . Are any of the wetlands or waterbodies within or a state or local agency?	adjoining the project site regulated by	any federal,	✓ Yes □No
iv. For each identified regulated wetland and waterbo Streams: Name Reeder Creek		Classification C	
 Lakes or Ponds: Name Wetlands: Name Finger Lakes Airport 	construction project offset	Classification Approximate Size 1.1 Acr	es
 Wetland No. (if regulated by DEC) v. Are any of the above water bodies listed in the mos waterbodies? If yes, name of impaired water body/bodies and basis 	t recent compilation of NYS water qu	nality-impaired	☑Yes □No
Reeder Creek is listed as an impaired water body.			
i. Is the project site in a designated Floodway?			☐Yes ☑No
j. Is the project site in the 100-year Floodplain?			□Yes •No
k. Is the project site in the 500-year Floodplain?			□Yes ☑ No
I. Is the project site located over, or immediately adjoint Yes: i. Name of aquifer:	ning, a primary, principal or sole sou	rce aquifer?	□Yes ☑No

m. Identify the predominant wildlife species that occupy or use the project site: See attached Project description Appendix H for Flora & Fauna Report		
n. Does the project site contain a designated significant natural community? If Yes: i. Describe the habitat/community (composition, function, and basis for designation)	on):	☐ Yes ☑ No
 ii. Source(s) of description or evaluation: iii. Extent of community/habitat: Currently: Following completion of project as proposed: Gain or loss (indicate + or -): 	_ acres acres _ acres	
 o. Does project site contain any species of plant or animal that is listed by the feder endangered or threatened, or does it contain any areas identified as habitat for an If Yes: Species and listing (endangered or threatened): See attached Project description, Appendix H for Flora & Fauna Report 		Yes No
 p. Does the project site contain any species of plant or animal that is listed by NYS special concern? If Yes: i. Species and listing: See attached Project description, Appendix H for Flora & Fauna Report 	S as rare, or as a species of	∐Yes Z No
q. Is the project site or adjoining area currently used for hunting, trapping, fishing of If yes, give a brief description of how the proposed action may affect that use:		□Yes ☑No
E.3. Designated Public Resources On or Near Project Site		
a. Is the project site, or any portion of it, located in a designated agricultural distric Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number:	•	∐Yes ⊮ No
b. Are agricultural lands consisting of highly productive soils present? i. If Yes: acreage(s) on project site? ii. Source(s) of soil rating(s):		□Yes ✓ No
c. Does the project site contain all or part of, or is it substantially contiguous to, a Natural Landmark? If Yes: i. Nature of the natural landmark:	eological Feature	∐Yes ☑ No
d. Is the project site located in or does it adjoin a state listed Critical Environmenta If Yes: i. CEA name: ii. Basis for designation: iii. Designating agency and date:		

	· · · · · · · · · · · · · · · · · · ·	
e. Does the project site contain, or is it substantially contiguous to, a but which is listed on the National or State Register of Historic Places, or Office of Parks, Recreation and Historic Preservation to be eligible for If Yes: i. Nature of historic/archaeological resource: Archaeological Site ii. Name:	that has been determined by the Commissi	
iii. Brief description of attributes on which listing is based:		
f. Is the project site, or any portion of it, located in or adjacent to an are archaeological sites on the NY State Historic Preservation Office (SH		☐Yes Z No
g. Have additional archaeological or historic site(s) or resources been ide If Yes: i. Describe possible resource(s): ii. Basis for identification:		□Yes ZNo
h. Is the project site within fives miles of any officially designated and p scenic or aesthetic resource? If Yes: i. Identify resource: Sampson State Park		☑ Yes No
ii. Nature of, or basis for, designation (e.g., established highway overloetc.): Sampson State park was previously a Naval Base and was repurposed iii. Distance between project and resource: 2.2 m	ok, state or local park, state historic trail or as a Stale Park.	scenic byway,
iii. Distance between project and resource: 2.2 m	iles.	
 i. Is the project site located within a designated river corridor under the Program 6 NYCRR 666? If Yes: i. Identify the name of the river and its designation: 	Wild, Scenic and Recreational Rivers	☐ Yes ☑ No
ii. Is the activity consistent with development restrictions contained in	5NYCRR Part 666?	□Yes□No
Attach any additional information which may be needed to clarify you lift you have identified any adverse impacts which could be associated a measures which you propose to avoid or minimize them. G. Verification I certify that the information provided is true to the best of my knowled.	with your proposal, please describe those in	npacts plus any
recently that the information provided is true to the best of my knowled		
Applicant/Sponsor Name Earl Martin	Date_5/1/2019.	
Signature Jason T. McCormick, PE	Title NYS Licensed P.E. retained by Mr. Marti	n
LICENTE FORM		
PRINT FORM Page 13 of	13	



December 5, 1997

Stephen Absolom
BRAC Environmental Coordinator
Directorate of Engineering and Housing
Seneca Army Depot Activty (SEDA)
Romulus, NY 14541-5001

Subject: Responses to EPA comments and revised CERFA Tables 1 and 2a

Dear Mr. Absolom:

In accordance with your request to respond to comments from the EPA on the Seneca Army Depot Activity, New York, Draft Final Environmental Baseline Survey Report dated October 30, 1996, Woodward-Clyde has enclosed the following:

- Responses to EPA Comments: one hard copy and one copy on diskette;
- Revised CERFA Table 1: one hard copy and one copy on diskette; and
- Revised CERFA Table 2a: one hard copy and one copy on diskette.

Hard copies of the responses and tables have also been provided to the BRAC 95 Program personnel listed below. No revisions to CERFA Table 2b were required at this time. Please note that the parcel categories are in accordance with the DOD BRAC 95 guidance.

As always, it has been a pleasure working with you and your staff at Seneca Army Depot Activity. If you have any questions, please contact me at (206) 343-7933.

Very truly yours,

Geoffrey C. Compeau, Ph.D.

Project Manager

Attachments

cc: Randy Battaglia, GPM, USACE

Mike Nelson, USACE, Seattle District



March 11, 1997

Mr. Steve Absolom BRAC Environmental Coordinator U.S. Army Corps of Engineers Seneca Army Depot, Bldg. 115, Route 96 Romulus, NY 14541

Subject: Final Environmental Baseline Survey and CERFA Letter Reports for

Seneca Army Depot Activity, New York

Dear Mr. Absolom:

In accordance with the contract for the U.S. Army Base Realignment and Closure (BRAC) 95 Program, Woodward-Clyde has enclosed the following:

- · Final EBS Report: seven hard copies and one set of diskettes; and
- Final CERFA Letter Report: one hard copy of the letter, seven hard copies of the accompanying tables, and one diskette.

A copy of the Final EBS Report has also been provided to BRAC 95 Program personnel listed below. The Final EBS and CERFA Letter Reports should be forwarded by the BRAC Environmental Coordinator (BEC) to the regulators for review as per the attached guidelines.

If you have any questions, please contact me at (206) 343-7933.

Very truly yours,

Geoffrey C. Compean Project Manager

Attachment

GCC:msi

cc: Final EBS Report only

- Randy Battaglia, GPM, USACE (including one set of diskettes)
- Mike Nelson, USACE, Seattle District
- · Pete Cunanan, U.S. Army Materiel Command
- . Glen Boldt, USAEC
- Don Conton, USACE, Mobile District (2 hard copies)
- · Robin Mills, DAIM-BO

U.S. ARMY BASE

REALIGNMENT AND

CLOSURE 95 PROGRAM

Environmental Baseline Survey Report

Seneca Army Depot Activity, New York

Prepared for U.S. Army Corps of Engineers New York District Seattle District

March 12, 1997

Woodward-Clyde 😷

Woodward-Clyde Federal Services 4582 S. Ulster Street Stanford Place 3, Suite 1200 Denver, Colorado 80237

Contract No. DACA67-95-D-1001

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EXECUTIVE SUMMARY

The Seneca Army Depot Activity, located in Romulus, New York, has been selected for closure under the 1995 Base Realignment and Closure (BRAC) process. The purpose of this Environmental Baseline Survey (EBS) is to classify discrete areas of real property associated with the Seneca Army Depot Activity, subject to transfer or lease, into one of the seven standard environmental condition of property area types as defined by Community Environmental Response Facilitation Act (CERFA) guidance and the Department of Defense (DOD) BRAC Cleanup Plan (BCP) Guidebook (DOD 1993). This is achieved by identifying, characterizing, and documenting the obviousness of the presence or likely presence of a release or threatened release of hazardous substances or petroleum products associated with the historical and current use of the Seneca Army Depot Activity. Releases at properties adjacent to the Seneca Army Depot Activity that could affect the environmental condition of the installation property are also ... identified, characterized, and documented. Additionally, areas containing or suspected of containing non-Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) contamination substances (e.g., asbestos-containing material, lead-based paint) that may limit or preclude the transfer or lease of the property for unrestricted use are delineated separately as qualified.

The seven standard environmental condition of property area types (categories) are presented in Section 1.3. Areas that are designated as Category 1, 2, 3, or 4 are suitable for transfer or lease, subject to consideration of the qualifiers. Areas that are currently designated as Category 5, 6, or 7 are not suitable for transfer.

The real property evaluated under this investigation of the Seneca Army Depot Activity consists of three geographic areas that together encompass approximately 10,634 acres, all of which were identified as BRAC property, subject to transfer or lease.

The Seneca Army Depot Activity was established in 1941 as a munitions and general purpose storage depot. In addition, the Seneca Army Depot Activity mission has included the demilitarization and destruction of munitions. Although the munitions currently stored at the Seneca Army Depot Activity are conventional, from the 1950s to 1993 the Seneca Army Depot Activity mission included the storage and maintenance of special weapons.

EXECUTIVE SUMMARY

To prepare the EBS report, Woodward-Clyde reviewed existing installation documents; federal, state, and local government records; and aerial photographs. A site visit was conducted that included visual inspections of the property and surrounding properties, and employee interviews. Additionally, reasonably obtainable federal, state, and local government records for adjacent properties were reviewed. No sampling activities were associated with this EBS.

The information provided in this Final EBS Report is current as of July 1996; however, comments received from installation personnel and the regulatory community on the Draft and Draft Final EBS Reports have been incorporated, as appropriate.

The survey and parcelization of the Seneca Army Depot Activity identified 113 BRAC parcels based on the environmental condition of the property. Table 5-1a and Figure 5-1 present the BRAC parcels and corresponding categorizations. Of the approximately 10,634 acres identified for transfer or lease, 8,689.27 acres are designated as Categories 1 through 4, as shown in the BRAC Acreage Summary Table. The remaining 1,944.73 acres of BRAC property are designated as Categories 5 through 7. Additionally, 1,804.58 acres of the categorized parcels were designated qualified for asbestos-containing material (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), radon, unexploded ordnance (UXO) and/or ordnance fragments, and/or radionuclides. Table 5-1b and Figure 5-1 present the qualified parcels.

BRAC ACREAGE SUMMARY TABLE SENECA ARMY DEPOT ACTIVITY, NEW YORK

ENVIRONMENTAL CONDITION CATEGORY NUMBER	TOTAL ACREAGE	\$277.65£75.52566645555	TOTAL QUALIFIED ACREAGE	ACM- QUALIFIED ACREAGE	LEP- QUALIFIED ACREAGE	PCB- QUALIFIED ACREAGE	RABON- QUALIFIED ACREAGE	E0000000000000000000000000000000000000	RADIONUCLIDE QUALIFIED ACREAGE
	8,554.94	8,465.94 .	89.00	35.06	36.56	0.02	0.32	55.72	7.34
2	111.25	90.74	20.51	17.22	20.40	0	0.06	0.09	0.08
3 '	21.33	3.20	18.13	17.65	18.04	0	0 .	2.1	0
4	1.75	1.32	0.43	0.14	0.43	0	0	0	0
5	207.05	117.60	89.45	0.26	0.07	0	0	0.61	89.19
6	1,724.83	137.86	1,586.97	2.69	6.58	0	0	1,244.72	341.39
7	12.85	12.76	0.09	0.09	0.09	0	0	0	0
Total	10,634.00	8,829.42	1,804.58	73.11	82.17	0.02	0.38	1,303.24	438.00

Note: Acreage figures are approximate; they have been calculated using AutoCad Release 12.

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LIST OF ACRONYMS

ACRONYM	DEFINITION
ACM	asbestos-containing material
AIRFA	American Indian Religions Freedom Act
AMSA	Area Maintenance Support Activity
AOC	Area of Concern
APE	Ammunition Peculiar Equipment
AST	aboveground storage tank
BCP '	BRAC Cleanup Plan
BEC	BRAC Environmental Coordinator
bgs	below ground surface
BLM	Bureau of Land Management
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbenzene, and xylene
CARC	chemical agent resisting coating
CCC	Civilian Conservation Corps
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act, as amended
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CERFA	Community Environmental Response Facilitation Act
CFR	Code of Federal Regulations
CPO .	Civilian Personnel Office
DARCOM	U.S. Army Material Development and Readiness Command
DCE	dichloroethylene
DECAM	Directorate of Environmental Compliance and Management
DESCOM	U.S. Army Depot Systems Command
DOD	Department of Defense
DOH	New York State Department of Health
DPM	Defense Priority Model
DRMO	Defense Reutilization and Marketing Office

LIST OF ACRONYMS

DS-2 diethylenetriamine

EA Environmental Assessment

EBS Environmental Baseline Survey

EIS Environmental Impact Statement

EM electromagnetic

EPA U.S. Environmental Protection Agency

EPIC Environmental Photographic Interpretation Center

ERNS Emergency Response Notification System

ESI expanded site investigation

FFA Federal Facility Agreement

FFCA Federal Facility Compliance Act

FINDS Facility Index System

FS Feasibility Study

GIS geographic information system

GPM Geographic Project Manager

gpm gallons per minute

GSA General Services Administration

HRS Hazard Ranking System

IAG Interagency Agreement

IPE industrial plant equipment

IRFNA inhibited red furning nitric acid

IRM Integrated Resources Management

IRMP Integrated Resource Management Plan

IRP Installation Restoration Program

ISCP Installation Spill Contingency Plan

JP8 jet petroleum grade 8

kg kilogram

kg/mo kilograms per month

LBP lead-based paint

LIST OF ACRONYMS

LUST leaking underground storage tank

maximum contaminant level MCL

MEDDAC U.S. Army Health Clinic

MEK methyl ethyl ketone

mg/kg milligrams per kilogram

mg/l milligrams per liter

Military Police MP

MSL mean sea level

NAGPRA Native American Graves Protection Act

n.d. no date

NEPA National Environmental Policy Act National Historic Preservation Act NHPA

NPDES National Pollutant Discharge Elimination System

NPL National Priorities List

NRC U.S. Nuclear Regulatory Commission

NYDES New York Discharge Elimination System

New York State Department of Environmental Conservation NYSDEC

New York State Electrical Gas Corporation NYSEG

O&M Operations and Maintenance

OB/OD Open Burning/Open Detonation

OMS Organizational Maintenance Shop

OU Operating Unit

OWS oil/water separator

PA Preliminary Assessment

PAH polyaromatic hydrocarbons

PCB polychlorinated biphenyl

PCE perchloroethylene

picocuries per liter pCi/L

PLPublic Law

LIST OF ACRONYMS

ppb	parts per billion
ppm	parts per million
PVC	polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
RBC	Rotating Biological Contractors
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
RMIS	Resource Management Information System
ROD .	Record of Decision
RSC	Regional Support Command
. SEDA	Seneca Army Depot Activity
SI	Site Inspection (or Investigation)
SIC .	Standard Industrial Classification
SOD	Seneca Ordnance Depot
SPCCP	Spill Control and Countermeasure Plan
SPL	State Priorities List
SRN	N.Y. State Registration Number
STB	super topical bleach
STP.	Sewage Treatment Plant
SVOC	semi-volatile organic compounds
SWMU	solid waste management unit
TAGM	Technical Assistance Guidance Memorandum (NYSDEC)
TCA	trichloroethane
TCE	trichloroethylene
TCL	Target Compound List
TMDE	Test, Measurement and Diagnostic Equipment
TPH	total petroleum hydrocarbon

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LIST OF ACRONYMS

TSD treatment, storage, and disposal

TSDF treatment, storage, and disposal facility

TVH total volatile hydrocarbon

USACE U.S. Army Corps of Engineers

USAEC U.S. Army Environmental Center

USAEHA U.S. Army Environmental Hygiene Agency

USAMC U.S. Army Materiel Command

USATA U.S. Army Test, Measurement and Diagnostic Equipment Agency

USATHAMA U.S. Army Toxic and Hazardous Materials Agency

USCG U.S. Coast Guard

USFS U.S. Forest Service

USGS U.S. Geological Survey

UST underground storage tank

UXO unexploded ordnance

VOC volatile organic compound



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1.0 INTRODUCTION

The Environmental Baseline Survey (EBS) report for the Seneca Army Depot Activity was prepared by Woodward-Clyde Federal Services (Woodward-Clyde) for the U.S. Army Corps of Engineers (USACE) under Contract No. DACA67-95-D-1001, Delivery Order No. 0010. This section describes the purpose and scope of the work conducted in preparing the U.S. Army Base Realignment and Closure (BRAC) 95 EBS report.

The information provided in this Final EBS Report is current as of July 1996; however, comments received from installation personnel and the regulatory community have been incorporated, as appropriate. The comments and corresponding responses have been compiled in a Comment Response Package that is included as Appendix A.

1.1 BRAC PROGRAM OVERVIEW

Prior to the late 1980s, base closure was a time-consuming and inconsistent process. The Secretary of Defense, in cooperation with Congress, proposed a base closure law to create a process to close bases and bring base infrastructure in line with force structure. Public Law (PL) 100-526, enacted in 1988, created the Commission on Base Realignment and Closure. The law charged the Commission with recommending installations for closure or realignment based on an independent study of the domestic military base structure.

The closure process was refined in PL 101-510, in which Congress created the Defense Base Closure and Realignment Commission. The process identified installations based on eight criteria, including four military value criteria; savings and return-on-investment; and the economic and environmental impacts of closure. The Commission met in 1991, 1993, and 1995, and its recommendations are currently being implemented by the Department of Defense (DOD).

The BRAC environmental restoration program is similar to DOD's Installation Restoration Program (IRP), but it has been expanded to include non-Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) contamination substances that are not normally addressed under the IRP, including asbestos-containing material (ACM), lead-based

paint (LBP), polychlorinated biphenyls (PCBs), radon, unexploded ordnance (UXO) and/or ordnance fragments, radionuclides, and pesticides (biocides).

The Community Environmental Response Facilitation Act (CERFA) (PL 102-426) was enacted in 1992 and amends Section 120 of CERCLA. CERFA directs federal agencies to evaluate all base closure and realignment property to identify uncontaminated parcels and allows the transfer or lease of remediated parcels when the successful operation of an approved remedy has been demonstrated. The CERFA identification process considers hazardous substances and petroleum products.

1.2 PURPOSE AND SCOPE OF ENVIRONMENTAL BASELINE SURVEY

The BRAC 95 environmental restoration program for the Seneca Army Depot Activity was initiated by conducting an EBS. The EBS included the review of existing installation environmental documents; federal, state, and local government records; and aerial photographs. A site visit, which included visual inspections of site facilities and adjacent properties, and interviews with current and former employees were also conducted. Additionally, reasonably obtainable federal, state, and local government records for adjacent properties were reviewed. The EBS report describes the environmental condition of the property and will be used to support determination of the suitability to transfer or lease.

The purpose of the EBS is to classify discrete areas at the Seneca Army Depot Activity into one of seven standard environmental condition of property area types as defined by CERFA guidance and the DOD BRAC Cleanup Plan (BCP) Guidebook (DOD 1993). This is achieved by:

- Identifying, characterizing, and documenting the obviousness of the presence or likely presence of a release or threatened release of a hazardous substance or petroleum product associated with the historical and current use of the Seneca Army Depot Activity.
- Identifying, characterizing, and documenting the obviousness of the presence or likely presence of a release or threatened release of a hazardous substance or

petroleum product from an adjacent property that is likely to cause or contribute to contamination at the Seneca Army Depot Activity.

No sampling or analysis activities were conducted during this survey.

1.3 DEFINITIONS

The following definitions are used in this report:

- BRAC property: The installation real property that is subject to transfer or lease.
 Real property includes land and rights in land, ground improvements, utility distribution systems, pipes or pipelines, buildings, and other structures located on the property and affixed to the land.
- Adjacent properties: Those properties, on or off the installation, contiguous to
 or nearby the boundaries being surveyed that are likely to cause or contribute to
 contamination and affect the results of the EBS or the classification of the BRAC
 property into standard environmental condition of property area types.
- BRAC parcel: An area of BRAC property that can be segregated from its surrounding areas based on the environmental condition of the area.
- Hazardous substances: Substances listed in 40 Code of Federal Regulations
 (CFR) 302.4, CERCLA Hazardous Substance Table.
- Petroleum: Any petroleum product or its derivatives, including aviation fuel and motor oil.
- Environmental condition of property area type: Any of the seven standard environmental condition of property area types (categories) as defined in the CERFA guidance and the DOD BCP Guidebook (DOD 1993) and presented in Table 1-1.

Table 1-1 ENVIRONMENTAL CONDITION OF PROPERTY DEFINITIONS

CAUE GORAVAL

Areas where no storage for one year or longer, release, or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent properties). Additionally, includes areas where no evidence exists for the release, disposal, or migration of hazardous substances or petroleum products; however, the area has been used to store less than reportable quantities of hazardous substances (40 CFR 302.4) or 600 or fewer gallons of petroleum products.

CATEGORY 2

Areas where only storage of hazardous substances in amounts exceeding their reportable quantity or petroleum products exceeding 600 gallons has occurred, but no release, disposal, or migration has occurred.

CATEGORY 3

Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, but at concentrations that do not require a removal or remedial action.

CATEGORY 4

Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, and all removal or remedial actions to protect human health and the environment have been taken.

CATEGORY 5

Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, and removal or remedial actions are underway, but all required actions have not yet been implemented.

CATEGORY 6

Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, but required removal or remedial actions have not yet been initiated.

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Areas that are not evaluated or require additional evaluation.

- Suitable for transfer: BRAC parcels that are designated as Category 1, 2, 3, or 4
 are suitable for transfer or lease, subject to consideration of the non-CERCLA
 qualifiers.
- Not suitable for transfer: BRAC parcels that are currently designated as Category 5, 6, or 7 are not suitable for transfer.
- Reserve enclave: An area of the installation real property that will be retained by DOD. In the case of the Seneca Army Depot Activity, this property was characterized as part of the EBS.

• Parcel labels: Each BRAC parcel has been given a number to which appropriate descriptive labels are attached. The numbers consist of a unique parcel identification number and an environmental condition of the property category number. The labels consist of a designation describing the type of contamination or storage, if applicable. The following designations are used to indicate the type of contamination or storage present in a parcel.

PS = Petroleum storage

PR = Petroleum release or disposal

HS = Hazardous substance storage

HR = Hazardous substance release or disposal

Examples of this identification system follow:

- 2(1) indicates that the second BRAC parcel is designated as a Category
 1 parcel.
- 12(3)HR indicates that the twelfth BRAC parcel is designated as
 Category 3 because of a documented hazardous substance release, but
 the concentrations do not warrant remediation.
- Qualified parcels: Areas containing or suspected of containing non-CERCLA contamination substances that may limit or preclude the transfer or lease of the property for unrestricted use. These parcels are delineated separately and labeled with the letter "Q" for "qualified." Qualified parcels overlay all environmental condition of the property categories (i.e., Categories 1 through 7). The qualified parcel labels are identified with the following designator, as applicable:

A = Asbestos-containing material (ACM)

L = Lead-based paint (LBP)

P = Polychlorinated biphenyls (PCBs)

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R = Radon
X = Unexploded ordnance (UXO) and/or ordnance fragments

RD = Radionuclides

For all parcels, "(P)" is used to indicate that the presence of a contaminant is possible, but that data are unavailable for verification.

For example, the fifth BRAC parcel with the presence of ACM and the possible presence of LBP would be labeled 5Q-A/L(P).

1.4 LIMITATIONS

The conclusions presented in this EBS report are based on information that was reasonably available from the designated installation contacts and other public sources at the time the EBS was conducted. In addition, information obtained from interviews has been assumed to be correct and complete unless contradictory information was obtained through other sources.

A representative number of buildings was visually inspected during the EBS field investigation conducted from November 13 through December 12, 1995. A 100 percent visual inspection of all buildings was not practical because of the size of the installation and the number of buildings. Buildings were grouped by "like usage and design" (e.g., storage igloos, warehouses, housing units), and a random sample of approximately 10 percent of these buildings was visually inspected. Similarly, a 100 percent visual survey of all undeveloped areas could not be accomplished. Obvious disturbed areas, areas revealed to be suspect through aerial photograph analysis, and areas identified as being suspect during interviews were visually inspected, as well as a representative sampling of other areas. Visual inspections were not conducted in areas that posed a health and safety risk to the field team (e.g., areas of reported ammunition disposal).

1.5 GENERAL GEOGRAPHIC AND ENVIRONMENTAL SETTINGS

1.5.1 Demographics

According to the 1990 Census, 33,683 persons lived in Seneca County, New York. This figure indicates that the population has decreased by 50 people since the 1980 census. Just under half

of the county's population reside in one of five villages — Interlaken, Lodi, Ovid, Waterloo, and Seneca Falls — with the latter two villages having the largest population. The towns nearest to the Seneca Army Depot Activity — Varick, Romulus, Ovid, and Covert — have populations of approximately 2,200 people each (STV/Lyon 1990).

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1.5.2 Physical Setting

The Seneca Army Depot Activity, an active military facility, is located near Romulus, New York, approximately 40 miles south of Lake Ontario. The site is at an elevation of approximately 600 feet above mean sea level (MSL) in an uplands area forming a divide between Cayuga Lake to the east and Seneca Lake to the west, two of the New York Finger Lakes. Most of the surrounding area is characterized by sparsely populated farmlands. Adjacent to the facility on the east is New York State Highway 96 and on the west is New York State Highway 96A (Parsons Engineering Science 1995a). A map of the installation is presented in Figure 1-1.

1.5.3 Climatology

The area around the Seneca Army Depot Activity is characterized as cool, with an average January temperature of 23°F and a July average temperature of 69°F. During the summer, and parts of the spring and fall, wide temperature differences between daytime highs and nighttime lows occur. Precipitation is fairly evenly distributed throughout the year, averaging about three inches a month. A significant amount of winter precipitation is provided by nearby Seneca Lake, Cayuga Lake, and Lake Ontario, which also help moderate the local climate. Annual snowfall averages about 60 inches. Wind directions are most commonly westerly and west-southwesterly. Although wind velocities are generally moderate, there are many days during winter months when winds are sufficient to cause blowing and drifting snow (Engineering Science 1994c).

1.5.4 Hydrology

Eight drainages draw the surface water from the Seneca Army Depot Activity in two general directions. Ditches and streams carry the surface water from the southern portion of the installation into Indian and Silver Creeks, which flow into Seneca Lake just south of the airfield. Kendaia Creek, which flows into Seneca Lake near the Lake Housing Area, drains the

administration and central areas of the depot. Reeder Creek, which also flows into Seneca Lake, drains the northeastern and north-central portions of the Seneca Army Depot Activity. Kendig Creek drains the northeastern portion of the depot, including the area known as the Duck Ponds. This creek flows north into the Cayuga-Seneca Canal, which flows to Cayuga Lake (U.S. Army Toxic and Hazardous Materials Agency [USATHMA] 1980; Engineering Science 1994c).

1.5.5 Geology and Soils

Underlying the general area is a broad north-to-south trending series of rock terraces mantled by glacial till. The region is part of the Appalachian Plateau and is underlain by a tectonically undisturbed sequence of Paleozoic shales, sandstones, conglomerates, limestones, and dolostones. The vicinity of the Seneca Army Depot Activity is characterized by Devonian rocks of the Hamilton group that are monoclinally folded and dip gently to the south. No evidence of faulting or folding is present. A 600- to 1,500-foot thick sequence of limestones, calcareous shales, siltstones, and sandstones characterize the Hamilton group (Parsons Engineering Science 1995a).

Four formations have been identified within the Hamilton group and, from oldest to youngest, they are: the Marcellus, Skaneateles, Ludlowville, and Moscow Formations. Moscow Formation rocks are generally located under the eastern portion of the Seneca Army Depot Activity, while the western portion is located in the older Ludlowville Formation. Both of these formations are typified by gray, calcareous shales and mudstones and thin limestones with numerous horizons of invertebrate fossils. The Skaneateles and Marcellus Formations are black and dark gray fossiliferous shales (Parsons Engineering Science 1995a).

Wisconsin event glacial till deposits overlay the Hamilton Formation shales. The Seneca Army Depot Activity is located on the western edge of a large glacial till plain. Although locally variable, the till is characterized by horizons of unsorted silt, clay, sand, and minor gravel. The thickness of these till deposits is variable across the Seneca Army Depot Activity and generally ranges from 1 to 15 feet, although in some locations the till is more than 30 feet thick. The till is thin, and bedrock is exposed or within three feet of the surface in some locations of the central and eastern portions of the Seneca Army Depot Activity (Parsons Engineering Science 1995a).

Soil associations found on the Seneca Army Depot Activity include the Darien-Angola Association that covers the main part of the installation and the Honeoye-Lima Association that is found mainly at the Lake Housing Area. The Darien-Angola Association is characterized by deep to moderately deep, somewhat poorly drained soils that have a silty clay loam and clay loam subsoil. Honeoye-Lima Association soils are deep, well drained soils that have a heavy silt-loam to heavy loam subsoil (Parsons Engineering Science 1995a).

1.5.6 Hydrogeology

Within Seneca County, four distinct hydrogeologic units have been identified: two distinct shale formations, a series of limestone units, and unconsolidated glacial drift. Groundwater in the county is minimally acceptable for use as potable water because it is very hard. About 95 percent of the groundwater wells in Seneca County are used for domestic or agricultural purposes and about five percent are used for commercial, industrial, or municipal purposes. Seneca Falls and Waterloo, the two largest communities in the county, both use surface water as municipal supplies, specifically Cayuga Lake and the Seneca River, respectively. Ovid and Interlaken villages both use groundwater for public supplies. Ovid, which is located about five miles south of the Seneca Army Depot Activity, obtains water from two shallow, gravel-packed wells located within a quarter-mile of the center of the village. Interlaken is located about 11 miles south of the Seneca Army Depot Activity and its primary water supply is from a well located about 1.5 miles northeast of the village center. Two wells located about 1.5 miles southwest of the village are used for backup (Parsons Engineering Science 1995a).

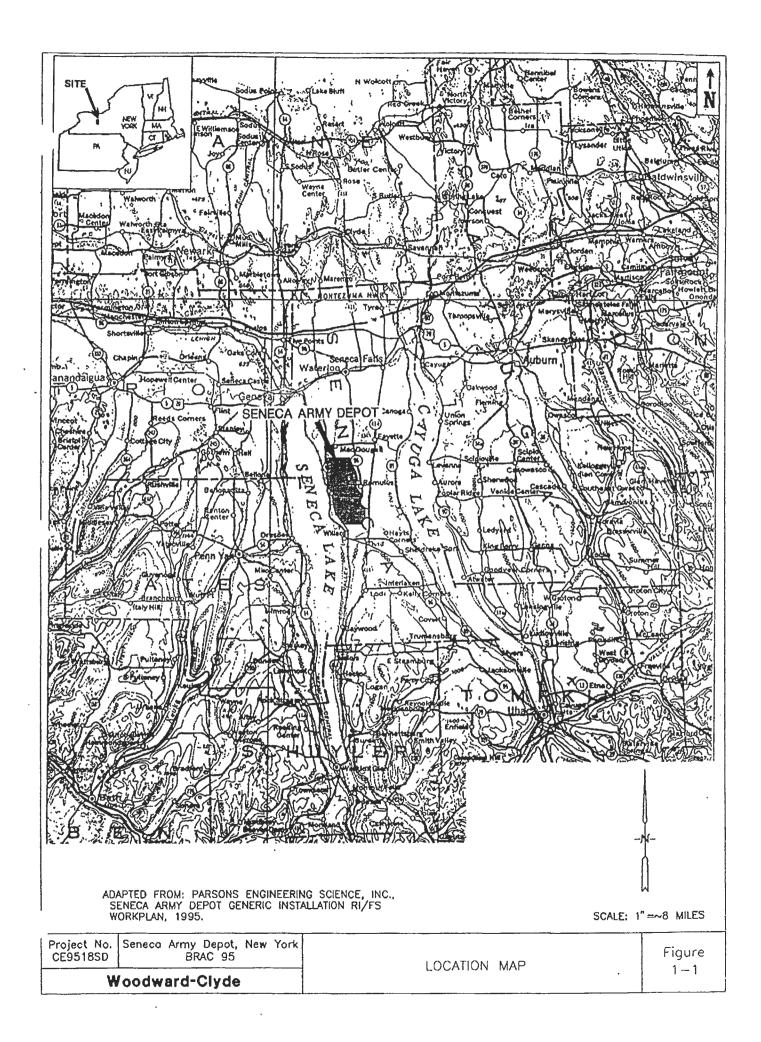
Three geologic units are used to produce water for both domestic and agricultural purposes. These units are a bedrock aquifer of predominantly shale, an overburden deposit that includes the glacial till, and a deep aquifer within beds of limestone. Because it is between 100 and 700 feet deep, the limestone source is the least used of the three for water supply. The shale aquifer is the most common source with the glacial till aquifer being intermediate (Parsons Engineering Science 1995a).

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Water flow in the unconsolidated glacial till deposits aquifer would be expected to trend in a direction consistent with the ground surface elevations. There is information suggesting that there is a groundwater divide about halfway between Lake Cayuga and Seneca Lake. Seneca Army Depot Activity is located on the western slope of this divide; and groundwater would, therefore, be expected to flow toward Seneca Lake to the west (Parsons Engineering Science 1995a).





2.0 SOURCES OF INFORMATION

The EBS investigation meets the requirements of CERCLA (1980) Section 120(h), as amended by CERFA and implemented by DOD. This section describes the sources of information that were used to support the determination of the environmental condition of the Seneca Army Depot Activity property.

2.1 INSTALLATION/BRAC PROPERTY

Relevant information and documents that were used to conduct the Seneca Army Depot Activity EBS are identified in the following sections. This information includes environmental studies; federal, state, and local regulatory records; interviews of installation personnel; and visual inspections within an approximately one-mile distance from the installation.

2.1.1 Existing Documents

Existing documents were reviewed to evaluate the environmental conditions at the Seneca Army Depot Activity. The 23 documents presented in Table 2-1 are the primary documents used in the preparation of this EBS report. Each document has a document identification number, which is referenced in the CERFA map tables (Table 5-1a and 5-1b) in Section Five. These documents are the primary source of evidence for the resulting environmental condition of property area categorization. A complete list of references is included in Section Six.

Table 2-1
PRIMARY DOCUMENTS

DOCUMENT TITLE	AUTHOR	DATE	EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER
Solid Waste Management Classification Study, Seneca Army Depot, Romulus, New York	Engineering Science, Inc.	June 1994	1
Installation Assessment of Seneca Army Depot Activity, Report No. 157	U.S. Army Toxic and Hazardous Materials Agency	January 1980	2

Table 2-1 (Continued)

DOCUMENT TITLE	AUTHOR	DATE	EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER
Update of the Initial Installation Assessment of Seneca Army Depot, New York (Draft Final)	Environmental Science and Engineering, Inc.	March 1988	3
USATHAMA Update of the Initial Installation Assessment of Seneca Army Depot, New York (Final)	Environmental Science and Engineering, Inc.	August 1988	4
Community Relations Plan, Seneca Army Depot, Romulus, New York (Draft)	U.S. Army Toxic and Hazardous Materials Agency	July 1991	. 5
Generic Installation Remedial Investigation/Feasibility Study (RI/FS) Work Plan, Seneca Army Depot Activity, Romulus, New York	Parsons Engineering Science, Inc.	August 1995	6
Air Pollution Emission Statement for Seneca Army Depot Activity, New York (Final Report)	U.S. Army Environmental Center	September 1994	7
Spill Prevention Control and Countermeasure Plan Including Installation Spill Contingency Plan for Seneca Army Depot, Romulus, New York	Campbell Design Group	March 1993	8
Phase II Analytical/Environmental Assessment Report	Lyon Associates, Inc.	October 1981	9
Phase I Analysis of Existing Facilities/Environmental Assessment Report	Lyon Associates, Inc.	July 1984	. 10
Seneca Army Depot Activity Base Realignment and Closure 1995 Implementation Plan	Headquarters, Seneca Army Depot Activity	July 1995	11
Investigation and Evaluation of	U.S. Army Corps of	September	12
Underground Storage Tanks Future Development Master Plan for Seneca Army Depot, Romulus, New York	Engineers STV/Lyon Associates	1989 October 1990	13
Army Relative Risk Site Evaluation Scoring, Defense Site Environmental Restoration Tracking System	Unknown	December 1995	14

Table 2-1 (Continued)

DOCUMENT TITLE	AUTHOR	DATE	EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER
Radioactive Materials	Radiological Assistance	July 1993	15
Decommissioning Survey, Seneca	Team, Seneca Army Depot		
Army Depot Activity	Activity		
Expanded Site Inspection Report,	Engineering Science, Inc.	May 1995	16
Seven Areas of Concern, Seneca Army Depot, Romulus, New York			:
Expanded Site Inspection Report,	Engineering Science, Inc.	June 1995	17
Three Areas of Concern, Seneca Army Depot, Romulus, New York	Zightoving bosonoo, zie	0_00	.,
Expanded Site Inspection Report, Eight Moderately Low Priority Areas of Concern, Seneca Army Depot, Romulus, New York	Engineering Science, Inc.	April 1995	18
Expanded Site Inspection Report, Seven Low Priority Areas of Concern, Seneca Army Depot, Romulus, New York	Engineering Science, Inc.	April 1995	19 .
Spills List, January 1991 to November 7, 1995	Seneca Army Depot Activity	November 1995	20
Registered Petroleum Storage Tanks	Seneca Army Depot Activity	November 1996	21
Inventory of Military Real Property as of October 19, 1995	Seneca Army Depot Activity	October 1995	22
Asbestos Management Plan	Seneca Army Depot Activity	Unknown	23

Additional documents collected fall into these general categories:

- Open burning grounds investigations
- Ash landfill investigations
- Groundwater sampling results (various locations)
- Non-CERCLA issues

2.1.2 Federal, State, and Local Government Regulatory Records

A search of federal, state, and local records pertaining to the Seneca Army Depot Activity and a search of reasonably obtainable records of adjacent (within a two-mile radius) properties was performed. In addition, a search of the environmental databases listed in Table 2-2 was conducted.

Table 2-2
ENVIRONMENTAL DATABASES

DATABASE	CONTENTS
National Priorities List (NPL)	The NPL lists Superfund sites, which are sites that are determined by the U.S. Environmental Protection Agency (EPA) to pose an immediate public health hazard requiring immediate cleanup response.
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)	The EPA CERCLIS database contains information on CERCLA sites, and is updated periodically.
Emergency Response Notification System (ERNS)	EPA maintains ERNS, which is a repository for information on hazardous spills nationwide. This information is based on reports filed by local agencies (e.g., municipal fire, police, or environmental departments), county agencies, state entities, and federal agencies (e.g., U.S. Coast Guard, National Response Center, and EPA).
Resource Conservation and Recovery Act (RCRA) Facilities Database	Facilities listed in this EPA database are RCRA facilities for which a Corrective Action has been issued to address waste handling problems.
Resource Conservation and Recovery Information System (RCRIS)	This database contains information on all RCRA facilities. The facility types include: large quantity generators; small quantity generators; conditionally exempt facilities; transporter facilities; and treatment, storage, and disposal (TSD) facilities. Large quantity generators generate over 1,000 kilograms (kg) hazardous waste/month, or greater than 1 kg acutely hazardous waste as defined by RCRA. Small quantity generators generate more than 100 and less than 1,000 kg of hazardous waste during any calendar month.
Facility Index System (FINDS)	EPA references any facility or event that has been issued an EPA identification number; the EPA program office that issued the identification number is also listed. These listings do not necessarily reflect releases.
State Priorities List	This state of New York database contains sites considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment.

Table 2-2 (Continued)

DATABASE	***CONTENTS
New York State Hazardous	This state of New York database contains state-designated
Waste Sites and Landfills	hazardous waste cleanup sites and landfills within a one-mile
Database	radius of the Seneca Army Depot Activity.
New York State Registered	This database contains information and all known and registered
Underground Storage	USTs in the state of New York, and is updated periodically.
Tanks (USTs) Database	
New York State Leaking	This database contains information on USTs reported to the state
Underground Storage	of New York as leaking.
Tanks (LUSTs) Database	

The complete database search report, including a map indicating locations of sites identified below, is provided in Appendix B. These searches produced information related to NPL status, spills, LUSTs, cleanup records, RCRA, CERCLIS, and air emissions. The database search has identified the following information:

- The Seneca Army Depot Activity is a federal Superfund site (NPL).
- It is listed on CERCLIS and EPA FINDS.
- It has had RCRA violations and corrective actions imposed.
- It has reported spill incidents and LUSTs.
- It is on the state cleanup list.
- It operates hazardous waste treatment, storage and disposal facilities.
- It is a hazardous waste generator.
- It has a permit to discharge waste water.
- It produces regulated air emissions,
- It operates a public drinking water system.
- It utilizes aboveground and underground storage tanks.

The database search revealed that the spills listed in Appendix B have occurred at the Seneca Army Depot Activity and have been reported to the New York State Department of Environmental Conservation (NYSDEC). Table 2-3 (following Section Two) presents spill information based on the database search and installation records. It represents the most up-to-date information available on historic spills at the Seneca Army Depot Activity.

The only spill reported from the ERNS database search was a 3,000-gallon fuel oil spill that occurred on October 5, 1987.

The database search revealed that the LUSTs listed in Appendix B are located at the Seneca Army Depot Activity and have been reported to NYSDEC. Table 2-4 (following Section Two) presents LUST information based on the database search and installation records. It represents the most up-to-date list of LUSTs currently or formerly at the Seneca Army Depot Activity.

State cleanup records indicate that a remedial action is pending at an open dump site at the Seneca Army Depot Activity (Ash Landfill Operating Unit [OU]). The actual status of this OU, however, is that the contaminated soils have been remediated as of June 1995 and the groundwater mitigation control remedy has not been selected.

The database search revealed that the Seneca Army Depot Activity is listed as a RCRA large quantity generator of wastes and as a storage and treatment facility (NY0213820830). This database also shows the LORAN-C facility as a large quantity generator of wastes (NY6690331404). The RCRA compliance history for the Seneca Army Depot Activity and LORAN-C shows no Class One violations. However, there are outstanding compliance issues related to closure and post-closure requirements for the RCRA TSD facilities.

CERCLIS records indicate that five operable units are currently under remedial investigation.

The database search also indicated that the Seneca Army Depot Activity is in compliance with air emissions permit requirements.

2.1.2.1 Permits and Permit Applications

The following permit and permit information is maintained by the Seneca Army Depot Activity:

- Information concerning USTs and aboveground storage tanks (ASTs) was identified in a list provided by the Seneca Army Depot Activity and is included as Appendix C. The information in this table includes the building location of the tank; the New York State registration number (SRN); the EPA registration number, if registered; capacity in gallons; product stored; type (AST or UST); location (inside or outside); year installed; and service status.
- National Pollution Discharge Elimination System (NPDES) Permit NY0021296 covers both operational sewage treatment plants located at Buildings 4 and 715 (USATHMA 1980).
- The Seneca Army Depot Activity was approved for Part A, Interim Status as a
 hazardous waste treatment, storage, and disposal facility (TSDF) in 1980. Part B
 Final Status TSDF was applied for in November 1986 (STV/Lyon Associates
 1990).
- DA Authorization A31-60-01 for storage of radioactive calibration and check sources for uranium-235, americium-241, and krypton-85 stored in Buildings 321 and 806 (USATHMA 1980).
- Memorandum regarding authorization for open pit detonation, SDSSE-HE (200-1c) (Absolom n.d.).
- Letter regarding discharge criteria for ash landfill (NYSDEC 1995a).
- Permit application for Part 60 SWM Facility for landspreading sewage treatment plant sludge (NYSDEC 1993c).
- Part 373 permit application for hazardous waste management facilities (Seneca Army Deport Activity 1991).

 Air permits that cover 22 registered point sources (13 active, 9 inactive) at the Seneca Army Depot Activity are listed in Table 2-5 (Seneca Army Depot Activity, List of Air Permits).

Table 2-5
AIR PERMITS

PERMIT NUMBER	FACILITY	EXPIRATION DATE	TYPE	STATUS
(*************************************	9909 600700 VALOROOM (1775 TO 1700 TO 1	2 254/00/0000/2977777777700000000000000000000	A Creative and Company of St.	*****************
00113	113	4/1/97	Ventilation	Active
00117	117	4/1/97	Ventilation	Active
01172	117	4/1/97	Ventilation	Inactive
00121	121	4/15/98	Smoke	Active
00319	319	4/15/98	Smoke	Active
00323	323	4/1/97	Ventilation	Active
00367	367	Pending renewal	Smoke	Active
00612	612	4/1/97	Ventilation	Active
0709B	709	4/1/97	Smoke	Inactive
0801B	801	4/1/97	Smoke	Active
00813	813	Unknown	Ventilation	Active
02073	2073	Pending renewal	Ventilation	Active
03171	317	4/1/97	Ventilation .	Active
03172	317	4/1/97	Ventilation	Active
3181	318	4/1/97	Ventilation	Inactive
03601	360	4/1/97	Ventilation	Active
03602	360	4/1/97 .	Ventilation	Inactive
03603	360	4/1/97	Ventilation	Inactive
03604	360	4/1/97	Ventilation	Inactive
07181	718	4/1/97	Smoke	Inactive
07182	718	4/1/97	Smoke	Inactive
07183	718	4/1/97	Smoke	Inactive

2.1.2.2 Inspection Reports and Enforcement Actions

The following inspection reports were found on file at the Seneca Army Depot Activity:

 Federal Facility Agreement Under CERCLA Section 120, between EPA Region II, the Department of the Army, and NYSDEC, January 1993 (EPA, Region II et al. 1993)

- Environmental Compliance Assessment System Review for the Seneca Army Depot Activity, U.S. Army Materiel Command (USAMC), April 11-15, 1994 (USAMC 1994)
- Tank Test Results for 1992, 1994, and 1995, Environmental Products and Services (Environmental Products and Services, Inc. n.d.)
- Investigation and Evaluation of Underground Storage Tanks, USACE, Huntsville
 Division, September 1989 (U.S. Army Corps of Engineers 1989)
- Radioactive Materials Decommissioning Survey, Radiological Assistance Team (Radiological Assistance Team, Seneca Army Depot Activity 1993).
- Innovative Wetlands Wastewater Treatment Project Sampling and Analysis Report, Lozier Laboratories, Inc. (Lozier 1982)
- Memorandum Regarding LBP testing in Buildings 211-A and 234-D and the Lake Housing Area (Seneca Army Depot Activity 1993)
- Pesticide Monitoring Survey evaluating pesticide distribution in selected components of the environment at Seneca Army Depot Activity by the U.S. Army Environmental Hygiene Agency (USAEHA) (USAEHA n.d.)
- Inspection report of registered pesticide applicator by the NYSDEC (NYSDEC 1991)
- NYSDEC Annual Inspection Reports from March and October 1993, and October 1994 (NYSDEC 1993a, 1993b, 1994b)

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- Inspection report on 60,000-gallon fuel oil tank (SRN187) from the National Association of Corrosion Engineers (National Association of Corrosion Engineers 1994)
- A water systems operation report from the NYSDEC (NYSDEC 1995b)

2.1.3 Aerial Photographs

The Environmental Photographic Interpretation Center (EPIC) conducted an imagery analysis of aerial photographs of the Seneca Army Depot (EPIC n.d.). The year of the analysis is not stated in the report but the photographs used dated from 1954, 1963, 1969, and 1981. This analysis found two areas that warranted in-depth discussion. Area A is a large demolition ground (Open Burning/Open Demolition Grounds), and Area B is reported to cover most of the potentially hazardous activities and sites at the depot. Area B is located in the east-central part of the depot and it includes the South Admin area, the IPE area, and the former popping plant (Building S-311) and surrounding area.

Aerial photograph analysis was conducted as part of the EBS field investigation for the Seneca Army Depot. A member of the EBS field team was given access to the filing room in the Engineering Office (Building 123). All available historical aerial photographs were reviewed for evidence of past activities that may have involved excavations, dumping areas, or any unexplained disturbance on the ground. The results of the aerial photograph review were then compared to the results of the records review, interviews, visual inspections, and the analysis of the rumored sites.

2.1.4 Existing Property Maps

Existing property maps were utilized to assist in identifying past usage and practices at the Seneca Army Depot Activity that may have contributed to environmental degradation or concerns. Property maps were also used to determine current physical conditions of the installation and to focus on areas where there may have been concerns regarding past or current waste management practices. A digital base map was provided by the Seneca Army Depot

Activity Environmental Office and was used in preparing the CERFA map included with this report.

2.1.5 Interviews

To facilitate the review of the installation's environmental history and practices, interviews of current and former employees involved in operations were conducted. To ensure the interview process was thorough, standardized interview forms were created and utilized. A sample interview form is presented in Appendix D.

2.1.6 Visual Inspections

As required by CERCLA 120(h)(4)(A)(iv) and (v) and DOD guidance, a visual inspection of the real property and properties immediately adjacent to the property was conducted and is addressed in this EBS report. On-site visual inspections of the installation property and adjacent properties were conducted by the EBS field team during the period of November 13 to December 12, 1995. Visual inspections conducted by the field team included grounds, buildings, structures, and equipment. Inspection methods included visual inspections from automobiles and surveys conducted during site walks. To ensure the visual inspections were thorough, standardized visual inspection forms were created and utilized. A sample visual inspection form is presented in Appendix E.

The visual inspection of every building and all undeveloped areas was not possible during the site visit. In areas where there were collections of like buildings with the same use (e.g., storage igloos), a random 10 percent sample was inspected. Areas of possible contamination or areas that were reported in interviews as being suspect were inspected unless doing so posed a health and safety risk to the surveyors. Table 2-6 lists the facilities that were visually inspected. Numerous open areas without buildings were also inspected but are not listed in the table.

Table 2-6
VISUAL INSPECTIONS CONDUCTED AT
THE SENECA ARMY DEPOT ACTIVITY

AREA	INSTALLATION FACILITIES
Lake Housing Area	2404, 2408, 2409, 2410, 2411, 2441, 2502, 2509, 2518, S2415, S2423, S2453, S2456, S2470, S2475, S2485
South Depot Area	103, 113, 116, 117, 118, 124, 127, 128, 131, 133, 135, 138, 146
North Depot Area	708, 717, 718, 719, 721, 729, 742, 744, 747
Elliot Acres Housing Area	212, 223, 225, 228, 234
Coast Guard Area	LORAN C and grounds
Special Weapons Area	803, 810, 813, 815, 816, 819
Airfield Area	Range, Sheet Range, 2301, 2302, 2303, 2304, 2305, 2306, 2308, 2310, 2314, 2315
Main Depot Area	102, 301, 304, 516, 606, 1593, 2204, S102, T-307
Main Depot Storage Igloos	A213, A306, A402, A508, A607, A610, A703, A806, A903, A907, A1003, A1101, B509, B601, B703, B801, B811, B902, C107, C203, C309, C402, C510, C603, C705, C801, C910, D111, D206, D212, D310, D404, D405, D507, D611, D612, D704, D811, E107, E203, E313, E410, E508, E704, E708, E811, E805
Warehouse Area	Tank Farm, 323, 324, 333, 346, 356, 374
IPE Area	DRMO Yard, 312, 317, 319, 320, 321, 360, 372

Visual inspections of adjacent properties were performed primarily by automobile surveys and observations from advantageous points. This was supplemented with occasional pedestrian surveys of areas that presented a ready access. The Seneca Army Depot Activity is mainly surrounded by agricultural land. The town of Willard is situated about one mile southeast of the southeast corner of the depot, and Romulus is located adjacent to the eastern border of the installation near its center.

2.1.7 Title Documents

CERCLA 120(h)(4)(A)(ii) and DOD guidance require a review of the "recorded chain of title documents regarding the real property." For the EBS, tract maps and title and transfer documents were reviewed to identify the prior property owners at the time of transfer to the U.S. Army. The purpose of this review was to collect additional information concerning the prior use and environmental condition of the property at the time of transfer to the U.S. Army. Previous ownership and the dates of transfer are presented in Appendix F. Copies of the deeds relating to these land transfers are on file at Woodward-Clyde and are available upon request.

Table 2-3
SPILL LIST
SENECA ARMY DEPOT ACTIVITY, NEW YORK

**************************************	***************************************	••••				
	AGENCY IDENTIFICATION			INCIDENT		BRAC PARCEL NUMBER
FACILITY	NUMBER	SUBSTANCE	QUANTITY	DATE	STATUS	AND LABEL
118	9204312	Diesel	2 gallons	7/15/92	Case Closed/Cleanup Complete	24(3)PS/PR/HS
330	9306000	Hazardous	5 gallons	8/16/93	Case Closed/Cleanup Complete	13(3)HS/HR
Unknown	8801942	Unknown	Unknown	6/1/88	Case Closed/Cleanup Complete	Unknown Location
Unknown	9100783	PCB Oil	Unknown	7/19/89	Case Closed/Cleanup Complete	Unknown Location
367	9310872	Non-hazardous	6 ounces	12/6/93	Case Closed/Cleanup Complete	80(6)PS/HR
2305	9411405	Non-PCB Oil	2 gallons	11/26/94	Case Closed/Cleanup Complete	8(4)PS/PR
319	9402630	No. 6 Fuel Oil	40 gallons	5/23/94	Case Closed/Cleanup Complete	50(5)PS/PR/HR(P)
129	9402116	Diesel	15 gallons	5/12/94	Case Closed/Cleanup Complete	29(3)PS/PR
Open Burning	9400993	Unknown	530 pounds	4/13/94	Case Closed/Cleanup Complete	104(6)PR/HS/HR
Grounds	7100775	O'ALGION II	oo pound	,,,,,,,	l control of the complete	10.(0),
2305	9011429	No. 2 Fuel Oil	25 gallons	1/22/91	Case Closed/Cleanup Complete	8(4)PS/PR
718	8910830	No. 6 Fuel Oil	3,000 gallons	10/5/87	Case Closed/Cleanup Complete	101(6)PS/PR/HS/HR
1			3			136(4)PR
2438	9213269	Sewage	500 gallons	2/25/93	Case Closed/Cleanup Complete	129(3)HR
Open Detonation	9213247	Diesel	80 gallons	3/1/93	Case Closed/Cleanup Complete	104(6)PR/HS/HR
Grounds						
Unknown	9210155	Non-PCB Oil	30 gallons	11/30/92	Case Closed/Cleanup Complete	Unknown Location
2073	9209232	No. 2 Fuel Oil	15 gallons	11/9/92	Case Closed/Cleanup Complete	57(6)PS/PR/HR
331	9208729	Hazardous	3 gallons	10/28/92	Case Closed/Cleanup Complete	14(3)HS/HR
747	9207312	No. 2 Fuel Oil	10 gallons	9/23/92	Case Closed/Cleanup Complete	100(6)PS/PR/HS/HR
Airfield	9210155	Non-Hazardous	30 gallons	11/30/92	Case Closed/Cleanup Complete	2(1)
C509	9206638	Waste Oil	Unknown	9/8/92	Case Closed/Cleanup Complete	132(3)PR/HR(P)
357	9108201	Hazardous	5 gallons	10/30/91	Case Closed/Cleanup Complete	131(3)PS/PR/HS/HR
307	9100990	Hazardous	45 gallons	4/23/91 .	Case Closed/Cleanup Complete	19(3)HS/HR
Airfield	9100721	Jet Fuel	18 gallons	4/17/91	Case Closed/Cleanup Complete	56(6)PR
Parking Lot	9502235	Non-PCB Oil	5 gallons	5/23/95	Case Closed/Cleanup Complete	Unknown Location
2134	9413197	Diesel	100 gallons	1/4/95	Case Closed/Cleanup Complete	104(6)PR/HS/HR
LORAN-C	9306216	Diesel	Unknown	8/21/91	Case Closed/Cleanup Complete	44(3)PR/HR
357	9004170	Hazardous	5 gallons	7/13/90	Case Closed/Cleanup Complete	131(3)PS/PR/HS/HR
	1	L.			the state of the s	

EE9518SD/FIRL-T23,DOC 3/11/97/BRAC/SD/EBS

Table 2-3 (Continued)

FACILITY	AGENCY IDENTIFICATION NUMBER	SUBSTANCE	QUANTITY	INCIDENT DATE	STATUS	BRAC PARCEL NUMBER AND LABEL
357	9202883	Hazardous	5 gallons	6/9/92	Case Closed/Cleanup Complete	131(3)PS/PR/HS/HR
357	9200908	Hazardous	1 gallons	4/23/92	Case Closed/Cleanup Complete	131(3)PS/PR/HS/HR
718	9313511	Hazardous	3 ounces	2/17/94	Case Closed/Cleanup Complete	101(6)PS/PR/HS/HR
357	9200414	Hazardous	2 gallons	4/10/92	Case Closed/Cleanup Complete	131(3)PS/PR/HS/HR
349	8904332	Unknown	Unknown	7/31/89	Case Closed/Cleanup Complete	130(3)PR/HR(P)
349	8604874	No. 6 Fuel Oil	5 gallons	10/30/86	Case Closed/Cleanup Complete	130(3)PR/HR(P)
Airfield	9112997	Jet Fuel	15 gallons	3/23/92 ·	Case Closed/Cleanup Complete	56(6)PR
323	9112897	Hazardous	3 gallons	3/18/92	Case Closed/Cleanup Complete	17(3)HS/HR
319	9111882	No. 6 Fuel Oil	30 gallons	2/19/92	Case Closed/Cleanup Complete	50(5)PS/PR/HR(P)
349	9109685	Non-PCB Oil	5 gallons	12/10/91	Case Closed/Cleanup Complete	130(3)PR/HR(P)

Table 2-4
LEAKING UNDERGROUND STORAGE TANKS
SENECA ARMY DEPOT ACTIVITY, NEW YORK

FACILITY	AGENCY IDENTIFICATION NUMBER	SUBSTANCE	QUANTITY	DATE	STATUS	BRAC PARCEL NUMBER AND LABEL
710	8907242	No. 2 Fuel Oil	Unknown	10/20/89	Case Closed/Cleanup Complete	37(4)PS/PR
806	8907722	No. 2 Fuel Oil	Unknown	11/1/89	Case Closed/Cleanup Complete	98(6)PS/PR/HS/HR
212	8910053	No. 2 Fuel Oil	Unknown	1/19/90	Case Closed/Cleanup Complete	135(4)PS/PR
2452	9204266	No. 2 Fuel Oil	Unknown	7/14/92	Case Closed/Cleanup Complete	133(4)PS/PR
Open Detonation Grounds .	9400104	No. 2 Fuel Oil	100 gallons	4/4/94	Case Closed/Cleanup Complete	104(6)PR/HS/HR
S-31I	9307284	No. 2 Fuel Oil	20 gallons	9/15/93	Case Open	82(6)PS/PR/HS/HR
138	9209672	No. 2 Fuel Oil	1900 gallons	11/19/92	Case Closed/Cleanup Complete	52(5)PR
319	9402630	Gasoline	40 gallons	5/23/94	Case Closed/Cleanup Complete	50(5)PS/PR/HR(P)
2310	9402116	Jet Fuel	Unknown	9/22/88	Case Closed/Cleanup Complete	6(4)PS/PR
Unknown	9400993	Gasoline	Unknown	12/8/87	Case Closed/Cleanup Complete	Unknown Location
2305	9011429	No. 2 Fuel Oil	Unknown	11/16/87	Case Closed/Cleanup Complete	8(4)PS/PR
752	9207220	No. 2 Fuel Oil	7 gallons	9/22/92	Case Closed/Cleanup Complete	134(4)PS/PR
807	9412037	Gasoline	7 gallons	9/10/91	Case Closed/Cleanup Complete	98(6)PS/PR/HS/HR
Unknown	8706958	No. 2 Fuel Oil	3 gallons	12/8/94	Case Closed/Cleanup Complete	Unknown Location
2079	9307375	No. 6 Fuel Oil	Unknown	9/17/93	Case Closed/Cleanup Complete	57(6)PS/PR/HR
357	8708149	No. 2 Fuel Oil	75 gallons	12/19/87	Case Closed/Cleanup Complete	131(3)PS/PR/HS/HR

3.0 PROPERTY CHARACTERIZATION

This section presents an overview of past and current operations at the Seneca Army Depot Activity and a discussion of potential environmental contamination associated with these operations. It provides a description of the installation facilities and addresses past and current waste management practices at the Seneca Army Depot Activity.

3.1 PROPERTY OVERVIEW

Historic land uses of the Seneca Army Depot Activity have been documented in reports prepared by the USACE and its subcontractors. Information was collected through record searches, interviews, and map and aerial photographs reviews. In addition, this section contains a general description of each facility within the installation as described through existing documentation or site visits.

3.2 INSTALLATION HISTORY AND MISSION

The Seneca Army Depot Activity, a military installation in upstate New York, was originally established as the Seneca Ordnance Depot (SOD) in July 1941. The facility originally covered about 10,600 acres of land in Seneca County. An airstrip from the former Sampson Air Force Base was acquired later. The North Depot Activity was consolidated with SOD in October 1961 and overall command was assumed by the Commanding Officer, SOD. In August 1963, SOD was transferred to the U.S. Army Supply and Maintenance Command from the Chief of Ordnance and renamed the Seneca Army Depot. The Seneca Army Depot was reassigned to the U.S. Army Materiel Development and Readiness Command (DARCOM), now the U.S. Army Materiel Command, on July 1, 1966. On September 1, 1976, the U.S. Army Depot Systems Command (DESCOM) was activated with command and control over all DARCOM depots. In 1993, significant downsizing in the military led to the renaming of the depot to the Seneca Army Depot Activity.

Employment of civilians reached a peak at 2,511 personnel in July 1943 and reached a pre-BRAC low of 595 in 1946. During the Korean conflict, 300 to 400 military personnel were assigned to the Seneca Army Depot, supplemented by 803 to 1,821 civilian personnel. In the

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1970s, civilian employment averaged about 700. As of September 30, 1995, the Seneca Army Depot Activity employed one military and 236 civilian personnel.

At this time, the Seneca Army Depot Activity encompasses 10,634 acres, and closure is the primary mission. Other missions concurrently being carried out include:

- Storage, issue, maintenance, and demilitarization of conventional munitions
- Storage and issue of general supplies, including hazardous materials
- Continental U.S. Care of Materials in Storage for U.S. Army Reserve Command
- Strategic and critical materials storage.
- Logistics support and training assistance to the U.S. Army Reserve and National Guard units

The following organizations have been identified as presently being on-site tenant organizations:

- New York National Guard
- U.S. Coast Guard LORAN-C Transmitting Station
- Defense Finance and Accounting Service (closed May 1996)
- U.S. Army Test, Measurement, and Diagnostic Equipment Support Operations
- Defense Reutilization and Marketing Office, Romulus Branch
- U.S. Army Health Clinic
- Civilian Personnel Office (scheduled for shutdown September 1996)

3.3 DESCRIPTION OF FACILITIES

The Seneca Army Depot Activity has 927 structures, including 35 maintenance shops, a machine shop, and other types of facilities that relate to its overall infrastructure and specific missions. Infrastructure-related facilities include 139 miles of roads, 42 miles of railroad track, two sewage treatment plants, a water treatment plant, an uncontaminated trash incinerator, soldier support facilities, and an airfield with a 7,000-foot runway and refueling services of up to 43,300 gallons of jet petroleum grade 8 (JP8). Figure 3-1 presents the general layout of the Seneca Army Depot Activity.

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Soldier support facilities include:

•	Modern 450-person barracks	•	Athletic fields
	complex	•	PX/Commissary
•	180 sets of family quarters	•	PX gas station
•	Dining facility	.•	Auto craft shop
•	Child care center	•	Ceramics shop
•	Education center	•	Woodshop
•	Gymnasium	•	Chapel
•	Racquetball courts	•	Theater
•	Bowling alley	•	Army travel camp
•	Swimming pool	•	Recreation area at the lake

Facilities related to conventional munitions storage include:

- 519 earth-covered igloo magazines
- 8 standard magazines
- 2 inert warehouses
- 2 small arms warehouses
- 3 modern maintenance facilities

Demilitarization facilities include:

- Ammunition Peculiar Equipment (APE) 1236 Deactivation Furnace equipped with EPA-approved, emission control system
- Modern, fully equipped facilities for performing disassembly demilitarization of conventional ammunition
- On-site demolition grounds for demilitarization of ammunition through controlled open detonation and burning

General supply, hazardous materials, and industrial plant equipment (IPE) storage facilities include:

- 19 general purpose warehouses
- 6 humidity-controlled warehouses
- 1 conforming hazardous materials warehouse
- 6 improved outside storage sites
- 2 storage sheds

Facilities related to U.S. Army Reserve and National Guard training include:

- Small arms firing range
- Grenade range
- Biyouac site
- Tactical and engineer training areas
- Inspection, maintenance, and demilitarization facilities

Other on-site assets include:

- Machine shop
- Woodshop
- Air-assisted "airless" Chemical Agent Resistant Coating (CARC)-capable paint booth
- Test, Measurement, and Diagnostic Equipment (TMDE) calibration laboratory
- Prototype fabrication facility

3.3.1 Mission Related Activities

For the purposes of the EBS field survey and this report, the depot has been divided into six geographic areas.

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- Main Depot Area
- North Depot and Special Weapons Area
- South Depot Area
- Airfield Area
- Lake Housing Area
- Coast Guard Area

These areas are based on those presented in a master plan developed for the depot in 1990 (STV/Lyon Associates 1990). These areas are related to functional history and land use at the depot and are used here to facilitate the ultimate goal of BRAC, which is efficient transfer and reuse. In the following sections, the different types of activities that occur within these areas are discussed, and various, less formally recognized, subareas are described. The main geographic areas and the subareas are depicted in Figure 3-1. The data appearing in the tables accompanying this section were derived from a real property inventory on file at the installation (Seneca Army Depot Activity 1995b).

Seventy-two areas at the installation are known solid waste management units (SWMUs). They have been previously classified in order of cleanup priority. These SWMUs have all been given numerical designations with the prefix SEAD-(e.g., SEAD-1, SEAD-2, etc.).

3.3.1.1 Main Depot Area

The Main Depot Area is the largest geographic area at the depot. This area includes facilities that are used for the storage of munitions and general purpose supplies, munitions disposal, industrial activities, administration/support, and training. Munitions and general purpose storage facilities cover approximately 6,681 acres of the Main Depot Area. The Seneca Army Depot Activity has been used for storage and disposal of military explosives since its inception in 1941. Prior to BRAC, its primary mission was the receipt, storage, maintenance, and supply of munitions. Another activity of importance has been the storage of general purpose materials and equipment. This activity has included the storage of both hazardous and non-hazardous materials. The majority of the facilities associated with this activity are concentrated in the Warehouse Subarea. In general, industrial activities at the depot have included restoration and renovation of munitions, IPE renovation, and mission support activities. Facilities related to

these activities are found throughout the Main Depot Area. Several facilities related to the administration/support of mission activities are found at various locations within the Main Depot Area. Finally, several areas of the Main Depot Area have been used for military training activities.

Munitions Storage. The principal area used for the storage of munitions is centrally located within the Main Depot Area. This area is also known as the Ammunition Storage Area or "Ammo" Area. Facilities in this area that are used for the storage of munitions are listed in Table 3-1.

Table 3-1
MAIN DEPOT AREA
MUNITIONS STORAGE

FARELETY NO	FUNCTION	YEAR BUILT	୍ରେନ୍
9	General Non-Hazardous Storage Shed	1942	824
12	General Non-Hazardous Storage Shed	1942	824
2086	Administration General Purpose/Yard Office	1942	762
2117	Storage of Ammunition	1942	11,296
2118	Storage of Ammunition	1942	11,296
2119	Storage of Ammunition	1942	11,296
2120	Storage of Ammunition	1942	11,296
2121	Storage of Ammunition	1942	11,296
2122	Storage of Ammunition	1942	11,296
2123	Storage of Ammunition	1942	11,296
· 2124	Storage of Ammunition	1942	11,296
2126	Ammunition Warehouse	1942	824
· · 2129	Ammunition Warehouse	1942	824
2132	Igloo Storage Depot	1992	100
2133	Igloo Storage Depot	1992	100
2200	Ammunition Warehouse	1942	824
2202	Loading Platform with Shed	1942	144
2203	Loading Platform	1942	100
2204	Ammunition Warehouse	1942	824
A0702-711	Igloo Storage Depot	1942	1,816
A0801-811	Igloo Storage Depot	1942	1,816
A0901-910	Igloo Storage Depot	1942	1,816
A1001-A1012	Igloo Storage Depot	1942	1,816
A1101-A1111	Igloo Storage Depot	1942	1,816
B0101-B0112	Igloo Storage Depot	1942	1,816
B0201-B0211	Igloo Storage Depot	1942	1,816

Table 3-1 (Continued)

FACILITY NO	FUNCTION	YEAR BUILT	SO ET
B0301-B0311	Igloo Storage Depot	1942	1,816
B0401-B0411	Igloo Storage Depot	1942	1,816
B0501-B0511	Igloo Storage Depot	1942	1,816
B0601-B0611	Igloo Storage Depot	1942	1,816
B0701-B0711	Igloo Storage Depot	1942	1,816
B0801-B0811	Igloo Storage Depot	1942	1,816
B0901-B0911	Igloo Storage Depot	1942	1,816
C0101-C0111	Igloo Storage Depot	1942	1,816
C0201-C0211	Igloo Storage Depot	1942	1,816
C0301-C0311	Igloo Storage Depot	1942	1,816
C0401-C0412	Igloo Storage Depot	1942	1,816
C0501-C0513	Igloo Storage Depot	1942	1,816
C0601-C0611	Igloo Storage Depot	1942	1,816
C0701-C0709	Igloo Storage Depot	1942	1,816
C0801-C0809	Igloo Storage Depot	1942	1,816
C0901-C0913	Igloo Storage Depot	1942	1,816
D0101-D0113	Igloo Storage Depot	1942	1,816
D0201-D0212	Igloo Storage Depot	1942	1,816
D0301-D0313	Igloo Storage Depot	1942	1,816
D0401-D013	Igloo Storage Depot	1942	1,816
D0501-D0513	Igloo Storage Depot	1942	1,816
D0601-D0612	Igloo Storage Depot	1942	1,816
D0701-D0712	Igloo Storage Depot	1942	1,816
D0801-D0812	Igloo Storage Depot	1942	1,816
E0101-E0114	Igloo Storage Depot	1942	1,816
E0201-E0214	Igloo Storage Depot	1942	1,816
E0301-E0313	Igloo Storage Depot	1942	1,816
E0401-E0413	Igloo Storage Depot	1942	1,816
E0501-E0513	Igloo Storage Depot	1942	1,816
E0601-E0611	Igloo Storage Depot	1942	1,816
E0701-E0711	Igloo Storage Depot	1942	1,816
E0801-E0811	Igloo Storage Depot (SEAD-48)	1942	1,816

A portion of the Main Depot Area known as the "50 Area" is located west of Seneca Road and south of Indian Creek Road. This undeveloped area was reportedly used for dumping and is discussed further in Sections Four and Five.

General Purpose Storage Activities. General purpose storage facilities are used for the storage of hazardous and non-hazardous materials, and the facilities relating to these activities are listed in Table 3-2.

Table 3-2
MAIN DEPOT AREA
GENERAL PURPOSE STORAGE FACILITIES

ACILITY NO.	FUNCTION	DATEBUILT	SQFT
00000000000000000000000000000000000000	X4 52 67 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1942	S COMMENT WORK
301	PCB Transformer Storage Facility (SEAD-2)		824
304	General Non-Hazardous Storage	1942	824
307	Hazardous Waste Container Storage Facility (SEAD-1)	1981	2000
323	Hazardous Storage/General Purpose Installation	1942	69,500
324	Hazardous Storage General Purpose Depot/Standard Warehouse	1942	824
325	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
326	Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
327	Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
328	Non-Hazardous Storage Warehouse	1942	90,000
329	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
330	Hazardous Storage Warehouse	1943	90,000
331	Hazardous Storage General Purpose Depot/Storage Warehouse	1942	90,000
332	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
333	Hazardous Storage General Purpose Depot/Storage Warehouse	1942	90,000
339	Controlled Humidity Warehouse	1942	90,000
340	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
341	Controlled Humidity Warehouse	1942	90,000
342	Controlled Humidity Warehouse	1942	90,000
343	Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
345	Controlled Humidity Warehouse	1942	90,000
346	Controlled Humidity Warehouse	1942	90,000
347	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
348	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
349	Controlled Humidity Warehouse	. 1942	90,000
350	Non-Hazardous Storage General Purpose Depot/Standard Warehouse	1942	90,000
356	Hazardous Storage General Purpose Depot/Standard Warehouse (SEAD-49)	1953	203,14

Table 3-2 (Continued)

FACILITY NO.	FUNCTION :	DATEBULT	SOFT
357	Hazardous Storage General Purpose Depot/Standard Warehouse (SEAD-55)	1953	203,145
369/607	Non-Hazardous Store House	1956	432
371	Non-Hazardous Storage General Purpose Depot	1988	2,245
372	Non-Hazardous Storage General Purpose Depot	1988	2,245
374	Acetylene Storage Installation	1990	2,100
375	Flammable Materials Storage Installation	1992	216
376	Non-Hazardous Storage General Purpose Depot	1993	6,000

Munitions Disposal. Several areas and facilities at the depot have been used for the demilitarization and disposal of munitions. Presently, munitions are the only hazardous material that is disposed of on site. The Open Burning/Open Demolition (OB/OD) Grounds, located in the northwest corner of the depot, is still in use for munitions disposal. This area includes three of the currently recognized SWMUs—SEAD-23, SEAD-45, and SEAD-57. A munitions deactivation furnace at Building 311 (SEAD-16) was used to destroy small arms munitions from 1945 to the mid-1960s. A second deactivation furnace at Building 367 (SEAD-17) has been used to destroy small arms, fuses, boosters, and other firing devices since 1962. Larger munitions, projectiles, and explosives cannot be destroyed in the furnace. They must be dismantled and the powder and/or propellant removed. These activities were conducted from 1948 to 1963 in Buildings 2073 to 2079, 2084, and 2085. This area is known as the Munitions Washout Plant (SEAD-4) and is currently dismantled. This activity is presently accomplished in Buildings 608 to 612 (SEAD-52). From the 1940s to the 1950s, powder was disposed of in the Powder Burning Pit (SEAD-24), located in the west-central part of the Main Depot Area, just south of Kendaia Creek. Information regarding munitions disposal facilities is presented in Table 3-3.

Table 3-3
MAIN DEPOT AREA
MUNITIONS DISPOSAL FACILITIES

1FACILITY NO.	FUNCTION	YEAR BUILT	ಿಂಡ್
311	Old Popping Plant (SEAD-16)	1942	11,628
366	Power Collect/Barricade	1950	950

Table 3-3 (Continued)

FACILITY NO.	FUNCTION	YEAR BUILT	SQF
*******************************		12 11 10 11 11 11 11 11 11 11 11 11 11 11	N CONTROLOGICA COCCOCCO
367	Demolition Furnace (SEAD-17)	1961	3,640
606	Pest Control (SEADs 43 and 56)	1956	3,414
608	Service Magazine Building (SEAD-52)	1954	350
609	Heating Plant (SEAD-52)	1954	692
610	Vacuum Collect/Barricade (SEAD-52)	1954	- 513
611	Flammable Storage (SEAD-52)	1954	400
.612	Ammunition Renovation Shop (SEAD-52)	1954	18,393
2073	Ammunition Refinish (SEAD-4)	1950	3,683
2074	Non-Hazardous Storage (SEAD-4)	1950	158
2075	Ammunition Vacuum System (SEAD-4)	1950	120
2076	Break/Changing Area (SEAD-4)	1953	-5,440
2077	Non-Hazardous Materials Storage (SEAD-4)	1942	565
2078	Process/Condition Ammunition	1942	7,494
2079	Boiler Plant (SEADS 4 and 38)	1947	1,926
2084	Process/Condition Ammunition (SEAD-4)	1950	5,480
2085	Process Condition Ammunition (SEAD-4)	1950	1,642
2104	Change House (OB/OD Grounds)	1951	1,300
2105	Non-Hazardous Storage Building (OB/OD Grounds)	1945	21,448
2106	Equipment Shelter (OB/OD Grounds)	1950	585
2107	Remote Control Shelter (OB/OD Grounds)	1950	64

Industrial Operations. Industrial activities carried out at the Seneca Army Depot Activity have included the restoration of conventional and guided missile ammunition, munitions maintenance and demilitarization, and industrial plant equipment restoration. Typical operations include degreasing, spray painting, steam cleaning, alkaline washing, boiler plant maintenance, welding and soldering, filling and charging batteries, woodworking, machining, grinding, paint removal, lubricating and tuning vehicles, and preservative coating of metals (USATHMA 1980).

Effluents from these operations have included solvents, preservatives, grease, metal dusts (including lead- and cadmium-bearing silver solders), acids, alkalies, and propellant and explosive dusts. Effluent disposal operations have included distillation and reuses of solvents, burning sludges in the Open Burning Ground, running overflow from oil separators into the storm drain system, burning waste oil at the Open Burning Ground, discharging boiler plant blowdown onto the ground or into drainage ditches, disposing of spot cleaning and wiping rags in the incinerator, resale of waste oils by the Property Disposal Yard, burning of some flammable materials by the fire department for training purposes, and disposal of some used oil by burning in the depot oil burner (USATHMA 1980).

Steam cleaning facilities are equipped with oil/grease separators, and used solvents are disposed of off depot by a contractor. Self-contained degreasing units were installed after 1985, and all waste is disposed of by a contractor off site. Used motor oil was mixed with No. 6 fuel oil and burned in the three boiler houses (Buildings 120, 319, and 718) until the 1980s. After that time, Buildings 120 and 319 no longer burned the used motor oil mixture. However, Building 718 had one of its boilers retrofitted to burn used motor oil without mixing and continued to burn used motor oil until its removal from service in 1993. Presently, used motor oil is picked up by contract and disposed of off site. Table 3-4 lists the facilities used in munitions restoration activities.

Table 3-4
MAIN DEPOT AREA
MUNITIONS RESTORATION FACILITIES

15 VOIL TO	EUN (E-10) (E	YEAR BUILTO	15(0 F0)
5	Bundle Ammunition Packing	1942	11,754
6	Heating Plant	1942	607
7	Bundle Ammunition Packing	1942	11,754
306	Ammunition Inspection Workshop	1942	5,413
308	Heating Plant	1942	531
309	Administration	1944	8,241
310	Change House	1955	840

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Other industrial operations at the Seneca Army Depot Activity are carried out in the IPE Subarea. Activities conducted here have included the rebuilding of industrial production equipment and maintenance of vehicles and other industrial stock items. IPE facilities are listed in Table 3-5.

Table 3-5
MAIN DEPOT AREA
INDUSTRIAL PLANT EQUIPMENT FACILITIES

AGILITY NO.	FUNCTION	YEAR BUILT	SQFT
316	Shop 1	1942	18,615
317	Shop 2	1942	26,429
318	Shop 3	1942	18,615
372	Hazardous Storage General Purpose Depot	1988	5,600

Administration/Support. Main Depot administration/support activities cover about 200 acres and include the facilities listed in Table 3-6.

Table 3-6
MAIN DEPOT AREA
ADMINISTRATIVE/SUPPORT FACILITIES

FACILITY NO.	FUNCTION	YEAR BUILT	SQFT
308	Heating Plant	1942	531
309	Administration	1944	8,241
312	Flammable Storage	1942	12,000
313	Sentry Station	1942	150
314	Sewage Treatment Plant (SEAD-22)	1951	439
319	Heating Plant Building (SEADs 37 and 40)	1942	2,868
320	Machine Shop	1942	16,300
321	Test, Measurement, Diagnostic Equipment (SEAD-47) Calibration Lab	1942	8,400
321	Administration General Purpose	1942	3,600
322	Flammable Storage	1955	256
. 335	Old Pest Control Shop (SEAD-68)	1956	3,827

Table 3-6 (Continued)

FACILITY NO.	FUNCTION	YEAR BUILT	SQLI
353	Water Plant	1954	1,642
359	Sentry Post No. 6	1953	150
360	Maintenance General Purpose (SEAD-27)	1980	8,660
360	Administration General Purpose	1980	1,024
363	Sewage Lift Station	1974	96
366	Power Collect/Barricade	1950	950

Training Ranges. Approximately 900 acres of the Main Depot Area is used for military training of soldiers and National Guard troops. Historically, the depot has provided training support for all branches of the military and the National Guard. This principally involved annual training for National Guard personnel and reservists. As of July 31, 1996, all training activities at the depot were discontinued. Training ranges in the Main Depot Area were located in four different areas. These included the Duck Ponds Subarea, a marshy, wooded area with ponds in the northeastern corner of the depot; an open, undeveloped area north of Buildings 306 and 308; the wooded, undeveloped area between the southernmost row of storage igloos and the southern perimeter fenceline; and the area south of the OB/OD Grounds on both sides of the East-West Baseline Road. Live-fire training activities were confined to designated firing ranges and to the training area along the East-West Baseline Road. These areas are discussed further in Sections Four and Five. One structure, summarized in Table 3-7, is associated with training activities in the Main Depot Area.

Table 3-7
MAIN DEPOT AREA
TRAINING FACILITY

FACIL	ITY NO.	FUNCTION	YEAR BUILT	SO RIS COM
3	73	Covered Training	1951	1,052
		Area		

3.3.1.2 North Depot and Special Weapons Areas

In 1956, the North Depot Activity was established with a special weapons mission. This mission was terminated in 1993 by Executive Order of the President. Areas associated with this mission are the North Depot and Special Weapons Areas. The North Depot Area contains facilities for maintenance activities (23 acres), industrial activities (1 acre), administration facilities (5 acres), troop housing (8 acres), community facilities (71 acres), outdoor recreation facilities (12 acres), and training ranges (30 acres). The facilities listed in Table 3-8 are located in this area.

Table 3-8
NORTH DEPOT AREA FACILITIES

Pagility No.	FUNCTION	YEAR BUILT	80 7
701	Administration	1956	14,280
702	Drug/Alcohol Abuse	1954	1,000
702	Administration General Purpose	1954	1,100
702	Technical Library	1954	. 1,381
702	Office	1954	1,629
702	Bachelor Officers' Quarters	1954	13,168
703	Barracks	1982	40,572
704	Barracks	1957	31,112
705A	Skill Development Center (Arts and Crafts)	1959	3,843
705	Recreation Center	1959	7,996
706	Post Theater	1956	. 3,705
707	Dining Facility	1956	11,552
707	Exchange Main Store	1956	7,372
708	Barracks	1957	31,112
709	Classified Document Incinerator (SEAD-18)	1956	15
710	Administration	1956	3,280
711	Sentry Station Post 3	1961	86
S-714	Bowling Center	1955	7,633
715	Sewage Treatment Plant (SEAD-21)	1942	4,792
716	Oil Pump House	1956	144
718	Boiler Plant (SEADs 35 and 41)	1956	3,224
719	Office Building	1956	144
720	Motor Vehicle Shop	1956	4,282
721	Gas Pump House	1956	177
722	Fire Station	1956	4,700

Table 3-8 (Continued)

FACILITY NO.	EUNCTION	YEAR BUILT	WW SQ FT//
723	Commissary	1956	17,209
723	Physical Fitness Center	1956	5,967
724	Veterinary Facility	1952	540
724	Mixed Case	1952	8,460
	Development		
725	Battery Storage .	1956	177
726	Security Maintenance	1956	967
727	Storage	.1956	1,320
728	Parts Building	1956	177
729	Security Headquarters	1956	4,620
731	Restaurant	1962; Renovated 1992	6,874
732	Auto Shop/Car Wash	1962	3,584
733	Bath House	1971	530
740	Chapel	1959	2,084
740	Child Development Center	1959	2,414
742	Post Exchange Gas Station	1962	1,392
743	Exchange Branch	1977	500
744	Gymnasium	1981	18,079
746	Vehicle Maintenance	1982	4,239
747	Auto Maintenance and Training	1982	8,700
748	Bivouac Building	1985	13,675
749	Dog Kennel	1986	Unknown
750	Army Community Service	1986	2,407
751	Equipment Rental	1987	-5,013
752	Child Care Center	1988	6,596
753	Guard Shack	1987	35
754	Power Plant Building	1987	138
755	Non-Hazardous Storage General Purpose Installation	1990	900

The Special Weapons Area includes facilities encompassing 700 acres that have been used for the storage of special weapons. Table 3-9 lists the Special Weapons Area facilities.

Table 3-9
SPECIAL WEAPONS AREA FACILITIES

FACILITY NO.	FUNCTION	YEAR BUILT	SOFT
800	Sentry Station Post 3	1981	1,272
801	Classified Document Incinerator (SEAD-19)	1956	15
802	Administration	1956	5,206
803	Mixed Waste Storage (SEAD-72)	1956	2,803
804	Electronic Maintenance Building	1957	1,334
805	Equipment Building	1957	440
806	Technical Training (SEAD-47)	1958	4,000
807	Supply Support Shop	1958	4,000
809	Flammable Storage	1957	177
810	General Non-Hazardous Warehouse	1957	37,973
812	Security Control Center	1957	10,686
813	Storage Workshop	1957	4,348
814	Spray Paint Building	1957	3,582
815	Shop	1957.	11,072
816	Shop	1956	15,373
817	Shop	1959	944
819	Weapon Assembly	1957	8,267
823	General Purpose Magazine Depot	1943	69
824	Loading Platform Blocking/Banding	1961	3,899
825	Non-Hazardous Warehouse	1959	4,000
827	Water Control Facility	1984	149
A0101-102	Igloo Storage Depot	1943	1,221
A0201, 203, 205, 207, 209, 211, 213, 215, 217	Igloo Storage Depot	1957	2,421
A0202, 204, 206, 208, 210, 212, 214, 216, 218	Igloo Storage Depot	1942	1,816
A0301, 303, 305, 307, 309, 311, 313, 315, 317	Igloo Storage Depot	1942	1,816
A0302, 304, 306, 308, 310, 312, 314, 316	Igloo Storage Depot	1957	2,421

Table 3-9 (Continued)

FACILITY NO	FUNCTION	YEAR BUILT	SOFT
A0401-409	Igloo Storage Depot	1942	1,816
A0501-508	Igloo Storage Depot	1942	1,816
A0601-610	Igloo Storage Depot	1942	1,816

Much of the details regarding the special weapons mission at the depot remains classified. Information regarding specific weapons and specific activities is not available. General information regarding which radioisotopes may be present in a particular building and which hazardous substances were used in a particular building is available. This information is presented in Table 3-10.

Table 3-10
RADIOISOTOPES AND OTHER HAZARDOUS SUBSTANCES

BUILDING NO	RADIOISOTORES	OTHER HAZARDOUS SUBSTANCES
803	U235, U238, Pu239, H3, Ra226, Co60, Co57	None ·
804	U235, U238, Pu239, H3, Ra226	Solvents, lead-based paints, chromate-based paints
806	None	Lead/heavy metals, acid, solvents
810	U238, H3, Ra226, Co60	Lead/heavy metals, lead-based paints, chromate-based paints
812	Ra226, Pm147, H3	Solvents, POLs
813	None	Lead-based paints, chromate-based paints, solvents
· 814 :	None	Solvents, POLs, lead-based paints, chromate-based paints, acids, heavy metals
815 and 816	U235, U238, Pu239, H3, Co60, Pm147,Ra226	Solvents, heavy metals, acid, asbestos, lead-based paints, chromate-based paints
817	None	Lead-based paints, chromate-based paints
819	Ra226, U235, U238, Co60, Pu239, H3	Di-isocynates, heavy metals, acid, lead-based paints, chromate-based paints, solvents, asbestos

3.3.1.3 South Depot Area

The South Depot Area is the main administrative and support area for directing the operations of the entire depot. Facilities related to administration (30 acres), maintenance (15 acres), medical (3 acres), family housing (90 acres), community (71 acres), and outdoor recreation (12 acres) activities are located in this area. The family housing area at the South Depot is known as Elliot Acres. Table 3-11 lists the facilities located in the South Depot Area.

Table 3-11 SOUTH DEPOT AREA FACILITIES

FACILITY NO.	FUNCTION	YEAR BUILT	SQFT
• 1	Break/Lunch Room	1972	256
4	Sewage Treatment Plant (SEAD-20)	1942	540
9	General Storage Shed	1942	824
12	General Storage Shed	1942	824
14	Sewage/Wastewater Treatment	1984	473
101	Post Headquarters	1942	14,772
102	Transformer House	1942	428
103 ·	Administration General Purpose	1942	1,800
104	Sentry Station Post 1	1942	462
106	Engineering Maintenance Facility	1977	720
106	Health Clinic (SEAD-42)	1977	9,875
106	Dental Clinic	1977	468
107	Power Plant Building	1990	160
110	Scale House	1942	120
110A	Scale House	1986	100
113	Crate Shop	1944	16,504
116	Health Clinic	1942	3,634
116	Administrative General Purpose	1942	9,388
116	Credit Union	1942	445
117	Photo Laboratory	1942	740
117	Vehicle Maintenance Shop	1942	19,127
118	Motor Repair Shop	1942	18,928
119	Office	1943	3,205
120	Gas Station	1942	400
121	Boiler Plant (SEADs 36 and 39)	1942	3,250

Table 3-11 (Continued)

FACILITY NO.	EUNCTION :	YEAR BUILT	SOFT S
122	Facility Engineering Shop	1942	12,318
123	Engineering	1942	3,205
124	Facility Engineering Shop	1942	1,567
125	Procurement Office	1969	4,260
126	Youth Center	1980	3,220
127	Loco House	1942	6,157
128	Rock Salt Storage	1981	120
130	Pump House	1982	· 214
131	Non-Hazardous Storage	1961	2,400
135	Heavy Equipment Storage	1956	5,014
136	Picnic Shelter	1979	960
137	Power Plant Building	1983	185
138	Car Wash	1984	1,500
143	Cable House	1943	36
145	Engineering Maintenance Facility	1951	558
146	Engineering Maintenance Facility	1992	9,000
147	Non-Hazardous General Purpose Storage	1992	4,072
247	Pumping Station	1960	Unknown
200-A	Elliot Acres Housing Unit	1960	1,526
200-В	Elliot Acres Housing Unit	1960	1,526
201-A	Elliot Acres Housing Unit	1960	1,526
201-B	Elliot Acres Housing Unit	1960	1,526
208-A	Elliot Acres Housing Unit	1960	2,559
208-B	Elliot Acres Housing Unit	1960	2,559
209-A	Elliot Acres Housing Unit	1960	1,526
209-В	Elliot Acres Housing Unit	1960	1,526
210-A	Elliot Acres Housing Unit	1960	1,750
210-B	Elliot Acres Housing Unit	1960	1,750
211-A	Elliot Acres Housing Unit	1960	1,600
211-B	Elliot Acres Housing Unit	1960	1,600
212-A	Elliot Acres Housing Unit	1960	1,750
212-B	Elliot Acres Housing Unit	1960	1,750
213-A	Elliot Acres Housing Unit	1960	1,600
213-B	Elliot Acres Housing Unit	1960	1,600
218-A	Elliot Acres Housing Unit	1960	1,600
218-B	Elliot Acres Housing Unit	1960	1,600
219-A	Elliot Acres Housing Unit	1960	1,750
219-B	Elliot Acres Housing Unit	1960	1,750

Table 3-11 (Continued)

FACELINAND)	FUNCTION	YEAR EULT	SOFT
221-A	Elliot Acres Housing Unit	1960	1,600
221-B	Elliot Acres Housing Unit	1960	1,600
222-A	Elliot Acres Housing Unit	1960	1,750
222-B	Elliot Acres Housing Unit	1960	1,750
223-A	Elliot Acres Housing Unit	1960	1,600
223-B	Elliot Acres Housing Unit	1960	1,600
224-A	Elliot Acres Housing Unit	1960 •	1,320
224-B	Elliot Acres Housing Unit	1960	1,320
224-C	Elliot Acres Housing Unit	1960	1,320
224-D	Elliot Acres Housing Unit	1960	1,320
225-A	Elliot Acres Housing Unit	1960	1,320
225-B	Elliot Acres Housing Unit	1960	1,320
225-C	Elliot Acres Housing Unit	1960	1,320
225-D	Elliot Acres Housing Unit	1960	1,320
226-A	Elliot Acres Housing Unit	1960	1,320
226-B	Elliot Acres Housing Unit	1960	1,320
226-C	Elliot Acres Housing Unit	1960	1,320
226-D	Elliot Acres Housing Unit	1960	1,320
227-A	Elliot Acres Housing Unit	1960	1,320
227-B	Elliot Acres Housing Unit	1960	1,320
227-C	Elliot Acres Housing Unit	1960	1,320
227-D	Elliot Acres Housing Unit	1960	1,320
228-A	Elliot Acres Housing Unit	1960	1,320
228-B	Elliot Acres Housing Unit	1960	1,320
228-C	Elliot Acres Housing Unit	1960	1,320
228-D	Elliot Acres Housing Unit	1960	1,320
229-A	Elliot Acres Housing Unit	1960	1,320
229-B	Elliot Acres Housing Unit	1960	1,320
229-C	Elliot Acres Housing Unit	1960	1,320
229-D	Elliot Acres Housing Unit	1960	1,320
230-A	Elliot Acres Housing Unit	1960	1,320
230-B	Elliot Acres Housing Unit	1960	1,320
230-C	Elliot Acres Housing Unit	1960	1,320
230-D	Elliot Acres Housing Unit	1960	1,320
231-A	Elliot Acres Housing Unit	1960	1,320
231-B	Elliot Acres Housing Unit	1960	1,320
231-C	Elliot Acres Housing Unit	1960	1,320
231-D	Elliot Acres Housing Unit	1960	1,320
232-A	Elliot Acres Housing Unit	1960	1,320
232-В	Elliot Acres Housing Unit	1960	1,320
232-C	Elliot Acres Housing Unit	1960	1,320
232-D	Elliot Acres Housing Unit	1960	1,320

Table 3-11 (Continued)

SFACILITY NO.	FUNCTION	YEAR BUILT	SQFT
233-A	Elliot Acres Housing Unit	1960	1,320
233-В	Elliot Acres Housing Unit	1960	1,320
233-C	Elliot Acres Housing Unit	1960	1,320
233-D	Elliot Acres Housing Unit	1960	1,320
234-A	Elliot Acres Housing Unit	1960	1,320
234-B	Elliot Acres Housing Unit	1960	1,320
234-C.	Elliot Acres Housing Unit	1960	1,320
234-D	Elliot Acres Housing Unit	1960	1,320
235-A	Elliot Acres Housing Unit	1960	1,320
235-B	Elliot Acres Housing Unit	1960	1,320
235-C	Elliot Acres Housing Unit	1960	1,320
235-D	Elliot Acres Housing Unit	1960	1,320
236-A	Elliot Acres Housing Unit	1960	1,320
236-B	Elliot Acres Housing Unit	1960	1,320
236-C	Elliot Acres Housing Unit	1960	1,320
236-D	Elliot Acres Housing Unit	1960	1,320
237-A	Elliot Acres Housing Unit	1960	1,320
237-В	Elliot Acres Housing Unit	1960	1,320
237-C	Elliot Acres Housing Unit	1960	1,320
237-D	Elliot Acres Housing Unit	1960	1,320
238-A	Elliot Acres Housing Unit	1960	1,320
238-B	Elliot Acres Housing Unit	1960	1,320
238-C	Elliot Acres Housing Unit	1960	1,320
238-D	Elliot Acres Housing Unit	1960	1,320
239-A	Elliot Acres Housing Unit	1960	1,320
239-B	Elliot Acres Housing Unit	1960	1,320
239-C	Elliot Acres Housing Unit	1960	1,320
239-D	Elliot Acres Housing Unit	1960	1,320
240-A	Elliot Acres Housing Unit	1960	1,320
240-B	Elliot Acres Housing Unit	1960	1,320
240-C	Elliot Acres Housing Unit	1960	1,320
240-D	Elliot Acres Housing Unit	1960	1,320
241-A	Elliot Acres Housing Unit	1960	1,320
241-B	Elliot Acres Housing Unit	1960	1,320
241-C	Elliot Acres Housing Unit	1960	1,320
241-D	Elliot Acres Housing Unit	1960	1,320
242-A	Elliot Acres Housing Unit	1960	1,320
242-B	Elliot Acres Housing Unit	1960	1,320
242-C	Elliot Acres Housing Unit	1960	1,320
242-D	Elliot Acres Housing Unit	1960	1,320
243-A	Elliot Acres Housing Unit	1960	1,480
243-B	Elliot Acres Housing Unit	1960	1,480

Table 3-11 (Continued)

FACILITY NO.	FUNCTION	YEAR BUILT	SOFT
243-C	Elliot Acres Housing Unit	1960	1,480
243-D	Elliot Acres Housing Unit	1960	1,480
244-A	Elliot Acres Housing Unit	1960	1,480
244-B	Elliot Acres Housing Unit	1960	1,480
244-C ~	Elliot Acres Housing Unit	1960	1,480
244-D	Elliot Acres Housing Unit	1960	1,480
245-A	Elliot Acres Housing Unit	1960	1,480
245-B	Elliot Acres Housing Unit	1960	1,480
245-C	Elliot Acres Housing Unit	1960	1,480
245-D	Elliot Acres Housing Unit	1960	1,480

3.3.1.4 Airfield Area

The Airfield Area and directly related facilities cover an area of approximately 460 acres. Training ranges cover an additional 65 acres of the southwest corner of the Airfield Area. The Airfield Area was acquired by the U.S. Army in 1957. Since that time, it has been used for the loading and off-loading of transport planes and for housing helicopters that are used for surveillance of the installation. Transport planes were not cleared for landing unless it could be assured that they could be loaded or off-loaded and depart all in the same day. That is, the airfield was not used for long-term aircraft parking, nor was it used for aircraft maintenance. The main environmental concern at the airfield are the fueling areas, and these are shown on Figure 5-1. Aircraft were refueled from tanker trucks. During refueling, if fuel was determined to be of poor quality, it either remained in the tanker trucks or was off-loaded into 55-gallon drums. The fuel was then taken to the fire training area on the Main Depot and used for that activity. Two UH-1 helicopters used for security are stationed at the airfield and hangared in Building 2305. Building 2306 is used as an office for the USA Readiness Group on an as needed basis. Other than these functions, the airfield is not in use at this time. Table 3-12 lists the facilities found at the Airfield Area.

Table 3-12
AIRFIELD AREA FACILITIES

FACILITY NO	FUNCTION	YEAR BUILT	SQFT
2301	Training Community	1954	1,022
2302	Target Storage	1953	1,022
2304	Power Vault	1953	2,184
2305	Army Readiness Group	1954	5,589
2306	Flight Control Tower	1953	8,774
2310	JP8 Tank Building	1981	144
2311	Sentry Station Post 8	1983	192
2312	Administration General Purpose	1986	2,401
2314	Gas Chamber	1988	286
2315	Fuel/Petroleum, Oil, Lubricant Building	1992	5,100
2316	Outdoor Rifle Range for Machine Guns	1992	48,400

3.3.1.5 <u>Lake Housing Area</u>

The Lake Housing Area consists of a family housing area that covers 110 acres, community facilities covering 10 acres, and outdoor recreation areas that cover 155 acres. The Commanding Officer is quartered at the Lake Housing Area along Colonels Drive. Records indicate that this has also been known as Colonels Row. Table 3-13 lists the facilities found in the Lake Housing Area.

Table 3-13
LAKE HOUSING AREA FACILITIES

SFACILITY/NOS	FUNCTION	YEAR BUILT 建	SOFT
2401	Lake Housing	1942	2,700
2402	Lake Housing	1942	625
2403	Lake Housing	1942	1,846
2404	Lake Housing	1942	2,184
2405	Lake Housing	1942	625
2406	Lake Housing	1942	2,204
2407	Lake Housing	1942	596
2408	Lake Housing	1942	4,103
2409	Officers' Club Storage	1942	720
2410	Officers' Club	1942	3,747
2411	Pump House	1942	2,535

Table 3-13 (Continued)

ACILITY NO	FUNCTION	YEAR BUILT	SØ FI
2412	Lake Housing	1942	1,067
2413	Lake Housing	1942	418
2414	Lake Housing	1942	1,968
2415	Lake Housing	1942	1,039
2416	Lake Housing	1942	344
2417	Lake Housing	1942	. 400
2418	Lake Housing	1942	780
2419	Lake Housing	1942	1,302
2420	Lake Housing	1942	251
2421	Lake Housing	1942	1,761
2423	Lake Housing	1942	1,323
. 2424	Lake Housing	1942	600
2425	Lake Housing	1942	1,218
2426	Lake Housing	1942	968
2427	Lake Housing	1942	915
2428	Lake Housing	1942	333
2429	Lake Housing	1942	1,020
2430	Lake Housing	1942	289
2431	Lake Housing	1942	339
2432	Lake Housing	1942	1,490
2433	Lake Housing	1942	400
2434	Sewage Pump Station	1957	Unknow
2436	Lake Housing	1942	229
2437,	Lake Housing	1942	1,815
2438	Lake Housing	1942	1,160
2439	Lake Housing	1942	354
2441	Lake Housing	1942	1,026
2443	Lake Housing	1942	1,238
2444	Lake Housing	1942	493
2445	Recreation Center	1982	920
2446	Lake Housing	1942	1,156
2447	Lake Housing	1942	372
2448	Lake Housing	1942	1,266
2449	Lake Housing	1942	502
2450	Lake Housing	1942	1,026
2451	Lake Housing	1942	580
2452	Lake Housing	1942	1,166
· 2453 .	Lake Housing	1942	1,333
2454	Lake Housing	1942	264
2455	Electric Substation	1982	80
2456	Boat House	1970	800
2466	Lake Housing	1942	318

Table 3-13 (Continued)

FACILITY NO.	FUNCTION	YEAR BUILT	HHSQ FT
2473	Trailer	1976	780
2485	Army Travel Camp Office	1981	1,576
2491	New Lake Housing	1988	1,976
2492	New Lake Housing	1988	1,976
2493	New Lake Housing	1988	2,096
2494	New Lake Housing	1988	1,976
2495	New Lake Housing	1988	1,976
2496	New Lake Housing	1988	2,096
2497	New Lake Housing	1988	2,096
2498	New Lake Housing	1988	1,976
2499	New Lake Housing	1988	1,976
2500	New Lake Housing	1988	1,976
2501	New Lake Housing	1988	1,976
2502	New Lake Housing	1988	2,096
2504	New Lake Housing	1988	1,976
2505	New Lake Housing	1988	2,380
2507	New Lake Housing	1988	2,288
2508	New Lake Housing	1988	2,380
2509	New Lake Housing	1988	2,288
2510	New Lake Housing	1988	2,380
2511	New Lake Housing	- 1988	2,288
2512	New Lake Housing	1988	2,288
2513	New Lake Housing	1988	2,288
2514	New Lake Housing	1988	2,288
2515	New Lake Housing	1988	2,288
2516	New Lake Housing	1988	2,380
2517	New Lake Housing	1988	2,380
2518	New Lake Housing	1988	2,380
2519	New Lake Housing	1988	2,288
2520	New Lake Housing	1988	2,380
2521	New Lake Housing	1988	2,288
2523	New Lake Housing	1988	2,288
2524	Guest Houses	1992	980
2525	Guest Houses	1992	980
2470	Guest Houses	1972	500
2471	Guest Houses	1972	500
2472	Guest Houses	1972	500
2474	Guest Houses	1976	720
2475	Guest Houses	1976	660
2476	Guest Houses	1976	720
2477	Guest Houses	1976	720
2478	Guest Houses	1976	720

Table 3-13 (Continued)

154(G)[E110(E)[6]	FUNCTION	YEAR BUILT	Se Fi
2479	Guest Houses	1988	924
2480	Guest Houses	1976	660
2481	Guest Houses	1976	720
2482	Guest Houses	1976	780
2483	Guest Houses	1988	924
2484	Guest Houses	1976	768
2486	Guest Houses	1988	891
2487	Guest Houses	1988	891
2488	Guest Houses	1988	891
2489	Guest Houses	1988	891
2490	Guest Houses	1988	891

3.3.1.6 Coast Guard Area

A portion of the installation near the southeast corner is currently used by the U.S. Coast Guard (USCG). The USCG operates a LORAN-C transmitter at this site. Facilities involved with this mission include a single building (un-numbered), a UST, and the transmitter antenna tower.

3.3.2 Tenant Missions

In 1953 and 1954, the Seneca Army Depot Activity began storage of material for the General Services Administration (GSA). This included large uncovered storage piles of various ores (EPA, Region II et al. 1993). Presently, 20 strategic ore storage piles remain at the Seneca Army Depot Activity. These are stores of 19 commodities totaling 484,552 metric tons.

In 1978, a LORAN-C station was commissioned and made operational by the USCG. This transmitter is located in the Coast Guard Area and consists of a single building and associated UST. This area is located near the southeastern corner of the installation. The USCG transmits LORAN signals to the northeastern U.S. and the Great Lakes and monitors and controls transmissions using remote monitor sites (STV/Lyon Associates 1990; Seneca Army Depot Activity 1991).

The Defense Reutilization and Marketing Office (DRMO), Romulus "Type-II" Scrap Branch operates a holding area at the Seneca Army Depot Activity for property scheduled for disposal until it is transported to Griffis Air Force Base or sold as scrap (STV/Lyon Associates 1990). This facility is located in the Main Depot Area west of Building 160.

The U.S. Army Test, Measurement and Diagnostic Equipment Agency (USATA) maintains radiation calibration sources in Buildings 321 and 806 (SEAD-47).

The U.S. Army Health Clinic (MEDDAC) provides medical, and formerly dental, services to installation-authorized area personnel (STV/Lyon Associates 1990). The clinic is located in Building 106-A (SEAD-42).

The following tenants use mainly administrative type facilities: Civilian Personnel Office (CPO), Tobyhanna Army Depot; GSA Fleet Manager; and SOD Federal Credit Union.

3.4 FACILITY SUPPORT ACTIVITIES

3.4.1 Hazardous Materials/Waste Management

Hazardous waste management facilities at the Seneca Army Depot Activity presently consist of one drum storage area (Building 307, SEAD-1), one PCB-containing transformer storage area (Building 301, SEAD-2), an incinerator for the demilitarization of munitions (Building 367, SEAD-17), and a mixed waste storage area (Building 803, SEAD-22) (Seneca Army Depot Activity 1991). All of these facilities are RCRA TSD facilities operating under interim status.

Building 307 is a corrugated metal building with a curbed, concrete slab floor that is used to store materials in 55-gallon drums (SEAD-1). Drums are stored on wooden pallets and labeled by waste type. The building permit has a maximum capacity of 150 drums.

Building 301 is used for PCB-containing transformer storage (SEAD-2). When transformers are repaired or taken out of service, the fluid is tested for PCB content in this building. Materials stored here are awaiting testing or disposal. Fluids may be drained from equipment and placed in

55-gallon drums that are then stored in Building 307. The empty equipment is stored in Building 301. This building was empty at the time of the 1995 EBS site inspection.

An important part of the Seneca Army Depot Activity's mission is the demilitarization of explosives. Two deactivation furnaces have been used for the destruction of small arms ammunition. Building 311 was in use from 1945 until the mid-1960s (SEAD-16). This furnace operated without dust collectors. Building 367 is the location of the present APE-1236 deactivation furnace, which has dust collectors (SEAD-17). This facility has been in use since 1962. Larger munitions must be dismantled and the powder and/or propellant removed. Buildings 608 through 612 are the present locations of this activity (SEAD-52), which was formerly carried out at the ammunition workshops, Buildings 2074 through 2085. In this area, a dismantled washout plant had been located. This plant was operational between 1948 and 1963 and is one of the presently recognized SWMUs (SEAD-4). Ordnance detonation and burning activities have also been conducted at the Seneca Army Depot Activity; areas used for these purposes are also recognized SWMUs (SEADs 23, 45, and 57) (Engineering Science, Inc. 1994c; STV/Lyon Associates 1990). From the 1940s to the 1950s, powder was disposed of in the Powder Burning Pit (SEAD-24). These SWMUs are discussed further in Section 4.1.

Building 803 is used to store mixed wastes that are mainly wipes contaminated with several low-level radioactive components and F-listed solvents (SEAD-72). The materials are segregated by solvent type, double bagged, and stored in open top 55-gallon drums. The drums are stored in vaults with a maximum capacity of 24 drums per vault and 96 drums total for the building (Seneca Army Depot Activity 1991).

Approximately 4,010 acres at the Seneca Army Depot Activity are used for the storage of ammunition, special weapons, pyrotechnics, and munitions related items. A total of 455 storage igloos and eight standard magazines are located within the ammunition storage area; in addition, six warehouses are used to store ammunition. There are another 64 igloos in the exclusion area used for the storage of special weapons (STV/Lyon Associates 1990).

More than 470,000 gallons of various grades of fuel oil are stored throughout the depot. All ASTs are diked to contain any spill; and aprons have been constructed around the fill spouts of all USTs. The depot maintains a current Spill Control and Countermeasure Plan (SPCCP) and an Installation Spill Contingency Plan (ISCP) (STV/Lyon Associates 1990).

Piles of chromate ore have been stored at several locations within the Seneca Army Depot Activity since the 1940s. Some piles are on the ground and others rest on concrete pads. Several piles of silicon carbide have been stored at the Seneca Army Depot Activity since 1956. These piles rest on hard storage pads and are covered with sheets of roofing material. Other ores that have been, or are presently, stockpiled at the Seneca Army Depot Activity include: antimony, asbestos, chromium, aluminum oxide, ferrochromium, ferro manganese, zinc, and rutile (Environmental Science and Engineering 1988b).

Columbite ore (a mixture of the oxides of iron, manganese, niobium, and tantalum) was stored in Buildings 324, 356, and 357 beginning in 1954 (SEAD-49). In 1973, the ore was transferred to Building 357 and Building 324 was swept. The ore was removed from the depot in 1993. The ore, now stored in drums, was originally kept in burlap bags. Neither niobium nor tantalum has any naturally occurring radioactive isotopes, but radium-226 and thorium-232 are usually present as impurities. Moreover, radon-222 was produced and concentrated in the unventilated warehouse, Building 357. A 1977 USAEHA survey indicated that the radon-222 concentration varied from 0.92 to 3.12 picocuries per liter (pCi/L) in Building 357. Outside the building, the concentration was 0.23 pCi/L. The maximum permissible concentration of radon-222 in an unrestricted area is 4.0 pCi/L (STV/Lyon Associates 1990). Warehouses that are known to have been used for the storage of hazardous materials are listed in Table 3-14.

Table 3-14
BUILDINGS USED TO STORE HAZARDOUS MATERIALS

BUILDING	HAZARDOUS MATERIALS
307	Hazardous waste
323	Pesticide, soda ash, and antifreeze
324	Columbite ore
327	Pesticide, soda ash, and antifreeze
330	Pesticide, soda ash, and antifreeze

Table 3-14 (Continued)

BUILDING	HAZARDOUS MATERIALS
331	Pesticide, soda ash, and antifreeze
333	STB, DS-2, and solvents
336	STB and chlorine impregnate
343	Pesticide, soda ash, and antifreeze
356	DS-2 and columbite ore storage
357	DS-2 and columbite ore storage

Fibrous asbestos ore is currently stored in Tank Number 88 at the Tank Farm (SEADs 50 and 54). Asbestos, previously stored in some of the other tanks, was shipped to other GSA warehouses in the 1960s (USATHMA 1980). Other materials that are known to have been stored in the Tank Farm include antimony, rutile, and silicon carbide.

In the 1940s, 11 of the igloos (EO801-EO811) in the ammunition area were used for the storage of pitchblende ore. After the ore was removed, the igloos were used to store conventional munitions until 1976. Although there has been a remediation effort of this area, there is still outstanding concern about radiological contamination, and this area is one of the recognized SWMUs (SEAD-48) (Engineering Science, Inc. 1994c; STV/Lyon Associates 1990). This SWMU is discussed further in Section 4.1.

3.4.2 Solid Waste/Landfill Management

Solid waste is collected and transported by contract for disposal at an off-site, private landfill (USAMC 1994). Metal and other materials that have resale value are stored at the property disposal yard until enough materials accumulate to warrant a solicitation for bids. Waste oil is stored at this yard in two USTs, and it is also stored in USTs at Buildings 117 (SEAD-31), 188, and 732. Radiological waste was stored at the depot in the 1940s but this practice no longer occurs (STV/Lyon Associates 1990).

A large area of the Seneca Army Depot Activity that consists of a non-combustible landfill (SEAD-8), an incinerator cooling water pond (SEAD-3), an ash landfill (SEAD-6), refuse

burning pits (SEAD-14), and a solid waste incinerator (SEAD-15) has been combined into a single operable unit referred to as the Ash Landfill. Also located in the general vicinity is a disposal area west of Building 2203 (SEAD-64D). The non-combustible landfill was used from 1974 to 1979 to dispose of materials that were either non-combustible or too bulky to be incinerated or burned. The incinerator cooling water pond was used from 1974 to 1979 to hold the cooling water and fly ash generated from the scrubber of the solid waste incinerator. The fly ash was removed every 18 months and disposed of at the ash landfill. The ash landfill was used from 1941 to the late 1950s or early 1960s, and again from 1974 to 1979. Ash from the refuse burning pits was disposed of from 1941 until the late 1950s or early 1960s. The refuse burning pits were used from 1941 to 1974 to burn all wastes generated on the depot until the incinerator opened in 1974. After burning, metal was removed for recycling and the ash was pushed into the ash landfill. The solid waste incinerator was used from 1974 to 1979 to burn depot refuse. This Operable Unit is currently being investigated under a CERCLA RI/FS. These SWMUs are discussed further in Section 4.1.

The disposal area west of Building 2203 (SEAD-64D) was reportedly used for the dumping of crushed heavy gauge metal drums, empty smoke generating canisters, and various other metallic debris. Results of an expanded site investigation (ESI) conducted at this SWMU indicated that one large debris pile in the southwestern portion of this SWMU may have impacted the soils and groundwater locally. This SWMU is discussed further in Section 4.1 (Engineering Science, Inc. 1994c).

Nine of the other previously recognized SWMUs are associated with former solid waste disposal areas. SEAD-8 is a non-combustible landfill located to the south of Smith Farm Road. It was used for the burial of non-combustible and bulky items between 1974 and 1979. This site is presently closed and is being investigated as part of the Ash Landfill OU. SEAD-9 is a former construction debris landfill located near the intersection of the East Patrol Road and East Kendaia Road. This site was used for the disposal of construction debris from 1977 to 1984, for the disposal of scrapwood from 1984 to 1986, and for firewood storage from 1984 to 1994. This SWMU has been classified as a Moderately Low Priority Area of Concern (AOC) and a minirisk assessment has been recommended.

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SEAD-11 is an old construction debris landfill that is located south of Indian Creek Road. This site was used for the disposal of construction debris from 1946 to 1949. This SWMU has been classified as a Moderate Priority AOC and an RI/FS has been recommended. SEAD-59 is a fill area located to the west of Building 135. It was potentially used for the disposal of construction debris, and the dates of usage are not known. This SWMU has been classified as a Moderately Low Priority AOC and an RI/FS has been recommended.

SEAD-64 includes four separate garbage disposal areas that were possibly used when the installation solid waste incinerator was inoperable. This SWMU has been previously classified as a Low Priority AOC. SEAD-64A is a small landfill located in the Main Depot Area south of 7th Street. Investigations at this site by Engineering Science, Inc. revealed soil and groundwater contamination, and an RI/FS has been recommended. SEAD-64B is a landfill located near the south end of the Main Depot Area. Investigations by Engineering Science, Inc. indicate that minimal impacts to the soil, sediment, surface water, and groundwater have occurred at this site. It has been recommended that a minor risk assessment and a Completion Report be completed and finalized in a Record of Decision (ROD). SEAD-64C was a proposed landfill site located north of South Patrol Road that had been rumored to have been used for debris dumping. This site was investigated by Engineering Science, Inc., and no significant impacts to the media investigated were found. It has been recommended that a mini-risk assessment and a Completion Report be completed and finalized in an ROD. SEAD-64D is one large and two smaller debris piles, located west of Building 223 and east of West Patrol Road. This site was investigated by Engineering Science, Inc., and several localized impacts to soil and groundwater were found. An RI/FS has been recommended for this site.

SEAD-67 is a disposal area located east of Sewage Treatment Plant No. 4. This site was investigated by Engineering Science, Inc., and soil and sediment were found to have been significantly impacted. This SWMU is classified as a Low Priority AOC and a limited sampling program and a removal action have been recommended. SEAD-69 is a disposal area located southeast of Building 606. This site was investigated by Engineering Science, Inc., and no significant impacts to any of the media investigated were found. This SWMU is classified as a Moderately Low Priority AOC, and it has been recommended that a mini-risk assessment and a

Completion Report be completed and finalized in an ROD. SEAD-70 is a fill area east of Building T-2110 that had been used to dispose of construction debris. An investigation of this site by Engineering Science, Inc. revealed that sediment in the surrounding wetland and the soils which comprise the landfill material have been impacted by moderate releases of polyaromatic hydrocarbons (PAHs) (in the sediment) and arsenic (in the soil). This SWMU is classified as a Low Priority AOC, and it has been recommended that a mini-risk assessment and Completion Report be completed and finalized in an ROD.

SEAD-71 is a rumored paint and solvent disposal pit located west of Building 127. This site was investigated by Engineering Science, Inc., and, although a paint disposal pit was not confirmed, at least one pit with construction debris and contaminated soils was found. This SWMU is classified as a Low Priority AOC, and an RI/FS has been recommended.

3.4.3 Storage Tanks

The Seneca Army Depot Activity has 219 USTs or ASTs registered with the state of New York. A complete listing of these tanks, including their state registration numbers (SRN), capacities, year installed, and status as of August 1995, is provided in Appendix C.

3.4.4 Drinking Water Management

Water is supplied to the depot, as well as the towns of Varick and Romulus, by means of a treatment and pumping facility located at Building 2411. The water is drawn from Seneca Lake and is chlorinated and fluoridated at this plant. Treated water is then piped across the Main Depot to open Reservoir 334 at the South Depot. From the reservoir, the water is rechlorinated and pumped to elevated Water Tower 109. Water is sent from this tower to supply off-post users, Reservoir 352, and North Depot elevated Water Tower 730. The Airfield Area is supplied from an independent ground storage tank that is filled from Reservoir 334. A well near Building 2301 is also used for water supply on a daily basis (STV/Lyon Associates 1990).

The drinking water distribution system consists of various networks of mains that range in size from 6 to 12 inches in diameter. About half of the system is constructed of plastic polyvinyl

chloride (PVC) piping, while the remainder is steel, asbestos cement, or ductile-iron piping (STV/Lyon Associates 1990).

A few water wells are located on the Seneca Army Depot Activity to supply water to remote facilities (Seneca Army Depot Activity 1991).

3.4.5 Groundwater Monitoring Wells

Over 100 groundwater monitoring wells are in place at the Seneca Army Depot Activity. Forty-seven of these are located at the Ash Landfill, 17 are located at the open detonation grounds, and 37 are associated with the open burning grounds (Engineering Science 1994a, 1994b, 1994c).

3.4.6 Stormwater Management

The storm drainage system consists of both open and closed systems that discharge into the four watersheds of Indian Creek, Kendaia Creek, Kendig Creek, and Reeder Creek. A system of extensive channels has been excavated, and drains have been built to facilitate surface drainage of most of the depot lands. All hazardous materials storage areas are located indoors to prevent precipitation from contacting the drums. The incinerator and waste processing area are also located indoors (STV/Lyon Associates 1990; Seneca Army Depot Activity 1991).

3.4.7 Sewage Treatment

The sanitary sewage disposal system comprises two major collection systems serving the depot and a combined system for the towns of Varick and Romulus. The South Depot and Warehouse Areas are served by a system that incorporates a pumping station at Building 314 (SEAD-22) and treatment at Building 4 (STP 4, SEAD-20). A New York Discharge Elimination System (NYDES) tertiary permit has been approved for STP 4. Treated sewage from this plant is discharged into Kendig Creek. The sanitary system for the Special Weapons and North Depot Areas is connected to a treatment plant at Building 715 (SEAD-21). Treated sewage is discharged from this plant into Reeder Creek, which is also covered by the NYDES permit (STV/Lyon Associates 1990; Seneca Army Depot Activity 1991).

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A sanitary system that is connected to the Seneca County Sewer District serves the Lake Housing Area (except five residences to the north). Individual septic tanks serve all remaining buildings with sanitary facilities (Seneca Army Depot Activity 1991).

3.4.8 Electrical Power Generation

Electrical power is not generated at the Seneca Army Depot Activity. Electrical power is provided by the New York State Electric and Gas Corporation (NYSEG) through a substation off site that is jointly operated by NYSEG and the U.S. Army. NYSEG is designing an upgrade to this 1950s-age facility. A second substation is located at the North Depot and is of similar age, but no upgrading is planned (STV/Lyon Associates 1990).

3.4.9 Heating System

The majority of buildings, specifically the storage igloos and various warehouses, are unheated. Buildings that are heated use either central steam distribution systems or individual oil-fired systems. About 60 percent of the heated space is served by the central steam heating system. Approximately 66 buildings and 279 housing units are heated with individual systems (STV/Lyon Associates 1990).

3.4.10 Fire Training

Fire protection is afforded by a fully-equipped on-site fire department that is located in Building 103. Two areas have been identified as having been used for fire training exercises. Both are previously recognized-SWMUs (SEADs 25 and 26) and will be discussed in Section 4.1 (STV/Lyon Associates 1990; Seneca Army Depot Activity 1991).

3.4.11 Medical Activities

Infectious and contaminated wastes generated by the health clinic are disposed of off depot by contractors in accordance with NYSDEC regulations (STV/Lyon Associates 1990). For a time, medical wastes were stored in appropriate biohazard containers in Building 106-A (SEAD-42).

3.4.12 On-Site Housing

Housing is provided at three on-post areas: Elliot Acres, Lake Housing, and the North Depot. Out of a total of 124 three-to-four bedroom units at Elliot Acres, 10 are single units, 13 are double units, and 22 are four-unit buildings. This housing area covers about 90 acres of real property. The Lake Housing Area includes 78 housing units covering about 110 acres, five community facilities covering about 10 acres, and about 155 acres of environmentally sensitive land that is used for outdoor recreation. Troop housing at the North Depot covers about 8 acres and includes 3 barracks that can accommodate 270 troops and a Bachelor Officers' Quarters accommodating 18 men (STV/Lyon Associates 1990). The North Depot housing was not in use at the time of the field investigation. Currently, the North Depot area is closed, and many of the housing units at Elliot Acres and Lake Housing are unoccupied.

3.5 SENSITIVE ENVIRONMENTS

The Seneca Army Depot Activity BRAC 1995 Implementation Plan (Headquarters, Seneca Army Depot Activity 1995) outlines the steps that need to be taken in order to address issues pertaining to sensitive environments. It addresses National Environmental Policy Act (NEPA), cultural resources, and natural resources requirements. Since the entire installation is an NPL site, NEPA compliance will most likely be fulfilled through an Environmental Assessment (EA) or a full Environmental Impact Statement (EIS). Headquarters, Industrial Operations Command is planning to prepare an EIS. The environmental action plan outlines a possible NEPA compliance scenario that includes the following steps:

- Conduct complete property inventory to determine disposal/reuse alternatives and differentiate those parcels that are in one of the following categories:
 - Totally clean and saleable
 - Require varying degrees of remediation
 - Where no closure-related accessing will occur

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FINAL

SECTIONTHREE

PROPERTY CHARACTERIZATION

- Conduct a detailed building inspection
- Determine the level of cleanliness needed prior to transfer
- Perform property signoff

Cultural resources issues are required to be addressed because of NEPA, National Historic Preservation Act (NHPA), Archaeological Resources Protection Act (ARPA), Native American Graves Protection Act (NAGPRA), and American Indian Religions Freedom Act (AIRFA). To fulfill the mandates of these laws, the following actions are required:

- Create a cultural resources management plan
- Develop NHPA compliance programs, including Section 106 review
- Conduct historical/archival investigations
- Conduct a comprehensive archaeological survey/inventory
- Nominate eligible sites and/or districts
- Prepare and execute a Programmatic Agreement

Natural resources issues that need to be addressed at the Seneca Army Depot Activity include: the Endangered Species Act; wetlands; migratory birds; the resident deer herd; a forest inventory; unique ecosystems; and impact(s) on the local environment (Headquarters, Seneca Army Depot Activity 1995). The following include recommendations made in the BRAC 1995 Implementation Plan (Headquarters, Seneca Army Depot Activity 1995).

A formal survey for endangered or threatened species, both floral and faunal,
has not been undertaken at the Seneca Army Depot Activity (Headquarters,
Seneca Army Depot Activity 1995). However, no known federally-listed
endangered or threatened species, designated endangered species, or critical
habitats are known to occur in the Seneca Army Depot Activity area, although
some species may occur as transients. A survey for endangered and
threatened species is presently ongoing and is scheduled for completion in
December 1996.

- A survey to define the wetlands at the Seneca Army Depot Activity has been completed and became available in July 1996. After the survey, issues that remain to be addressed include how wetlands will be managed, who will manage them, and whether all or portions should be retained at all after installation closure. The environmental action plan will need to address any potential conflicts affecting migratory bird populations that may frequent the Seneca Army Depot Activity's wetlands (Headquarters, Seneca Army Depot Activity 1995).
- A foreseeable impact to the environment could result if any area that is
 presently used by migratory birds is taken out of use. There is also a need for
 some yearly maintenance of waterfowl nesting areas. Before closure, any
 ensuing impacts to migratory bird habitats and waterfowl nesting areas should
 be reviewed with both NYSDEC and U.S. Fish and Wildlife (Headquarters,
 Seneca Army Depot Activity 1995).
- A resident herd of white-tailed deer is of particular interest owing to the high frequency of a genetic trait that produces a white-coat color. At this time, the herd consists of about 225 with the white-coat color and about 300 brown deer. The white-coat condition probably occurs at the Seneca Army Depot Activity at this frequency because of the fence enclosure that surrounds the installation. If there was no fence, the herd would outbreed and the white-coat frequency would decrease. The presence of the fence requires the continual management of the herd, which has been shown to expand beyond the limited carrying capacity of the installation (Headquarters, Seneca Army Depot Activity 1995).
- A large portion of the Seneca Army Depot Activity is wooded and the timber is salable. A timber inventory has recently been completed, and there is no plan at present for harvesting (Headquarters, Seneca Army Depot Activity 1995).

FINAL

SECTIONTHREE

PROPERTY CHARACTERIZATION

• No unique ecosystems are known to exist at the Seneca Army Depot Activity (Headquarters, Seneca Army Depot Activity 1995).



4.0 INVESTIGATION RESULTS

This section describes the results of the EBS investigation. It discusses:

- Sources of potential contamination that have been addressed in prior reports
- Sources of potential contamination that have not been addressed by previous investigations
- Adjacent properties that may be potential sources of contamination to the installation property
- Areas containing contamination substances not regulated by CERCLA (non-CERCLA)
- Real property within the installation property that will be retained by the U.S. Army (reserve enclaves)

4.1 PREVIOUSLY IDENTIFIED SOURCES OF POTENTIAL CONTAMINATION

Seventy-two sites were classified as SWMUs in the final Solid Waste Management Classification Study completed in 1994 (Engineering Science, Inc. 1994c). Identification and classification of SWMUs was conducted by the U.S. Army in accordance with the decision process outlined in the Interagency Agreement (IAG) between the USACE, EPA, Region II, and NYSDEC. Twenty-four sites have been classified as No Action required; 20 as requiring Removal Action or Completion Report/Record of Decision; and 28 as requiring an RI/FS, Remedial Action, and ROD. The 28 sites requiring an RI/FS are divided into thirteen groups and RIs are final at two of these. One site is the Ash Landfill site (SEADs 3, 6, 8, 14, and 15) where the source area was decontaminated using low temperature thermal desorption. Additional work may be needed for the groundwater. The second site is the Open Burning Ground (SEAD-23). The Ash Landfill FS is currently under debate over unresolved remedial alternatives. Four new groups of RIs are planned and it is likely that all of the remaining groups will require the full process (Headquarters, Seneca Army Depot Activity 1995). The 72 recognized SWMUs are listed according to relative priority in Tables 4-1a through 4-1e (following Section Four). The priorities were determined in accordance with the IAG.

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Numerous spills of petroleum products or hazardous materials and several LUSTs have been reported to NYSDEC and are listed in Section 2.1.2. Most of these involved small quantities of material and were quickly cleaned up. A single spill involving a very large quantity of material occurred in 1988. A leak of 3,500 gallons of fuel oil from the heating plant, Building 718, entered the North Depot STP (Building 715). The oil was contained in the STP sludge holding tank and subsequently cleaned up. No violations were listed for this spill, which was inspected by several New York state environmental officials (STV/Lyon Associates 1990).

A release of 1,900 gallons of fuel oil from a LUST occurred at Building 138 on November 19, 1992 (Case Number 9209672). The oil drained from the tank into the storm drain, then into a drainage ditch, and then into Kendaia Creek. The total length of the release covered about one mile. The incident was reported to NYSDEC and cleanup actions followed. The case is listed as closed in the database; however, a closure report was unavailable. Furthermore, an interview conducted during the 1995 EBS field investigation revealed that only 1,700 gallons of the product was recovered. For the purposes of this EBS, we are considering this case open.

4.2 POTENTIAL CONTAMINATION AREAS IDENTIFIED DURING THE EBS INVESTIGATION

Extensive environmental assessments have previously been conducted at the Seneca Army Depot Activity and are summarized in the preceding section. Because of this extensive work, most of the potential areas of contamination have already been identified. The following table summarizes additional areas identified during the 1995 EBS interviews and visual inspections. The BRAC Parcel Number and Label presented in this table correspond with those described in Section Five and illustrated on Figure 5-1.

Table 4-2 POTENTIAL CONTAMINATION AREAS

GEOGRAPHIC				BRAC PARCEL
AREA	FACILITY	DESCRIPTION	SOURCE	LABEL
Coast Guard	LORAN-C	Halon spill	Interview	43(3)HR
Lake Housing	Building 2409	Raw sewage spill	Visual Inspection	54(6)HR(P)
Airfield	Skeet/Trap Range	Skeet/Trap Range	Interview, Visual Inspection	115 Q-X
Airfield	Building 2302	Small arms range	Visual Inspection, Interview	114 Q-X
Main Depot	"50 Area"	Dumping areas	Visual Inspection, Interview	.57(6)PS/PR/HR
Main Depot	Near Ovid Road	Small arms range	Visual Inspection, Interview	119 Q-X
Warehouse	Building 325	PCB oil spill	Interview	77(6)PR/HR
South Depot	DRMO Yard	Release of hazardous materials	Interview	78(6)HS/HR
South Depot	Buildings 306 and 308	Release of hazardous materials	Visual Inspection, Interview	84(6)PS/PR(P)
South Depot	Building 127	UST with evidence of petroleum release	Visual Inspection	88(6)PS/PR
South Depot	Building 135	Stained soil in vehicle storage building	Visual Inspection, Interview	86(6)PR/HS/HR
Special Weapons	Buildings 813-817	Storage and release of paints and solvents, potential radionuclide release, unknown burial activities	Visual Inspection, Interview	98(6)PS/PR/HS/HR
North Depot	MP Service Station	Multiple petroleum releases	Visual Inspection, Interviews	99(6)PS/PR_
North Depot	Building 744	Indoor firing range	Interview	125 Q-X
North Depot	Buildings 716 and 717	Petroleum release	Visual Inspection	102(6)PS/PR(P)
Main Depot	Near Building 2131	Possible DDT disposal	Interview	106(6)HR
Airfield	Near Building 2311	Connex with unknown contents	Visual Inspection	107(7)
Main Depot	South end of Main Depot Area	Munitions burial sites	Interview	116 Q-X 117 Q-X
Main Depot	Duck ponds area	Mounds with unknown contents	Visual Inspection	111(7) 112(7)
Special Weapons	Building 810	Unknown use and contents	Visual Inspection Denied	98(6)PS/PR/HS/HR
Special Weapons	Buildings 819, A0101, and A0102	Unknown use and contents .	Visual Inspection Denied	98(6)PS/PR/HS/HR
North Depot	Building 747	Storage of acid and petroleum products, release of petroleum products and solvents	Interview	100(6)PS/PR/HS/HR
North Depot	Undeveloped area west of Building 715	Mounds with a rusty drum	Visual Inspection	113(7)
South Depot	Open Area	Rumored coal ash disposal area	Interview	137(7)
South Depot	Open Area	Rumored coal storage area	Interview	138(7)
North Depot	Open Area	Rumored DDT can burial area	Interview ·	139(7)
North Depot	Hill north of Post 3	Rumored drum burial area	Interview	140(7)

The U.S. Army has compiled a list of stories and rumors regarding past activities at the Seneca Army Depot Activity (Seneca Army Depot Activity 1995a). This list is informally referred to as

the "rumors list," and it contains 17 different entries. At the request of the BRAC Environmental Coordinator (BEC) and Geographic Project Manager (GPM), the Woodward-Clyde EBS investigation pursued these rumors during interviews involving current or past employees who may have knowledge of these past activities. After the interviews were completed, these rumors were analyzed in relation to any information that had been obtained. The original list of rumors is included as Appendix H. In summary, confirmation was found for eight of these rumors, no confirmation was found for five, and conflicting information was obtained for four. Subsequent visual inspections and confirmed locations led to the inclusion of fourteen of the rumors into the list of potential contamination areas listed in Table 4-2. Table 4-3 provides a breakdown of the results of the rumored sites investigation.

Table 4-3
RESULTS OF RUMOR INVESTIGATION

RUMOR NUMBER	INVESTIGATION RESULTS	BRAC PARCEL NUMBER AND LABEL
1	Rumor confirmed: two ammunition burial areas identified	116Q-X and 117Q-X
2	Rumor confirmed: fill materials included concrete, dirt, and shale	5(2)PS/HS
3	Conflicting information obtained: area possibly investigated as part of SEAD-7	3(1) and/or 113(7)
4	Conflicting information obtained: specific location not identified	_
5	Conflicting information obtained: area is part of SEAD-67	103(6)HR .
6	Rumor confirmed: a potential location has been identified	38(7)
7	Rumor confirmed: solvents, paints, and acids dumped/buried east of Building 813	98(6)PS/PR/HS/HR
8	Rumor not confirmed: no interviewees had any direct knowledge of this activity; a potential location has been identified	140(7)
9	Rumor not confirmed: no interviewees had any direct knowledge of this activity; a potential location has been identified	139(7)
10	Aerial photographs revealed no evidence of a pond in the reported area	3(1)
11	Rumor not confirmed: no interviewees had any direct knowledge of this activity; a potential location has been identified	109(7)

Table 4-3 (Continued)

RUMOR NUMBER	INVESTIGATION RESULTS	BRAC PARCEL
12	Rumor not confirmed: no interviewees had any direct knowledge of this activity; former staging area identified in aerial photograph	57(6)
13	Rumor confirmed regarding cleaning, but no indication of use of hazardous materials; no specific location identified	3(1)
14	Rumor confirmed: a potential location has been identified	137(7)
15	Rumor confirmed: visual inspection identified three areas where materials have been dumped	57(6)PS/PR/HR
16	Conflicting information obtained: interviews indicated that crushed shale was used for fill and that oils and solvents were disposed of in the area	78(6)HS/HR
17	Rumor confirmed: rumored area is part of No Action SWMU SEAD-51	3(1)

4.3 SOURCES OF POTENTIAL CONTAMINATION FROM ADJACENT OR SURROUNDING PROPERTY

The search of federal and state computerized databases revealed one site on the state priorities list (SPL), five RCRA generators within 0.25 mile to 1 mile from the Seneca Army Depot Activity, six LUSTs on the NYSDEC LUST database, and 14 sites with USTs registered on the NYSDEC Petroleum Bulk Storage UST database.

The site on the SPL is Sampson State Park, which is located adjacent to and southeast of the Seneca Army Depot Activity.

The five RCRA generators located near the Seneca Army Depot Activity are listed in Table 4-4. Their locations are shown on Figure 3-1 according to their corresponding map numbers.

Table 4-4 RCRA GENERATORS

	DESCRIPTION	MAP NUMBER
Town of Varick, New York	Generates 100 kilograms per month (kg/mo) but less than 1,000 kg/mo of non-acutely hazardous waste.	6 .
Northside of White Road	Generates 100 kg/mo but less than 1,000 kg/mo of non- acutely hazardous waste.	10
Sampson State Park	Generates at least 1,000 kg/mo of non-acutely hazardous waste.	5
Service Station, Route 96A, Ovid	Generates at least 1,000 kg/mo of non-acutely hazardous waste.	7
Ronnie's Body Shop, Route 96, Ovid	Generates 100 kg/mo but less than 1,000 kg/mo of non-acutely hazardous waste.	7

Table 4-5 lists the 14 LUSTs that have been reported to be located within a 4-mile radius of the Seneca Army Depot Activity.

Table 4-5
LEAKING UNDERGROUND STORAGE TANKS

NAME	DISCOVERY	SUBSTANCE	STATUS	GROUNDWATER GRADIENT RELATIONSHIP	MAP NUMBER
George Clark Residence	9/17/93	Petroleum	Case Closed/Cleanup Complete	Upgradient	2
Split Pine Farms	3/27/87	Diesel	Case Closed/Cleanup Complete	Crossgradient	4
Town of Varick	8/3/93	Diesel	Case Open	Downgradient	6
Sampson State Park	3/1/90	Gasoline	Case Closed/Cleanup Complete	Downgradient	5
Marsha and Willie Elmo	3/7/91	No. 2 Fuel Oil	Case Closed/Cleanup Complete	Upgradient	9
Willard Psychiatric Center	11/29/94	Gasoline	Case Open	Crossgradient ·	1
Willard Psychiatric Center	1/26/88	No. 2 Fuel Oil	Case Closed/Cleanup Complete	Crossgradient	1
Willard Psychiatric Center	3/23/95	Gasoline	Case Open	Crossgradient	1
Lamoreax/Quinn	11/19/87	Gasoline	Case Closed/Cleanup Complete	Upgradient	9
Donald Baker Residence	Unknown	Kerosene	Case Closed/Cleanup Complete	Unknown	8
Quick-N-Easy	Unknown	Unknown	Case Open	Crossgradient	7
Seneca County Highway Department	11/13/87	Gasoline	Case Closed/Cleanup Complete	Upgradient	AP-1
Howard's Mobile	12/23/87	Gasoline	Case Closed/Cleanup Complete	Crossgradient	7
Sunoco Service Station	Unknown	Gasoline	Case Closed/Cleanup Complete	Crossgradient	7

Based on these records, it appears that no LUSTs with ongoing investigations are located upgradient from the Seneca Army Depot Activity.

A visual inspection of adjacent properties resulted in the identification of three areas of possible contamination that could potentially affect the Seneca Army Depot Activity.

- The first is the Seneca County Highway Department yard, located in the town of Romulus, approximately 0.25 miles northeast of the Main Gate to the Seneca Army Depot Activity (Figure 3-1, AP-1). This county facility appears to be a heavy equipment and maintenance yard and shop. The property is approximately two acres in size and contains several buildings, including a large previously used AST that has been modified to hold roadway salt. This facility lies directly hydraulically upgradient from the Seneca Army Depot Activity and should be environmentally characterized for the potential of soil and groundwater contamination. Visual inspections revealed numerous USTs and ASTs in various states of neglect and disrepair. This area was photographed for documentary purposes.
- The second suspect adjacent property is a large AST (approximately 15 feet in diameter and 50 feet high) located about 500 feet due west of the intersection of West Kendaia Road and the West Patrol Road (Figure 3-1, AP-2). This tank has a large hole in the side, and a large visible stain of petroleum product was observed around the base. This area is located hydraulically upgradient from the Lake Housing Area.
- The third area, also discovered during a visual inspection, consists of farm trash that has been dumped down the slopes of a branch of Kendaia Creek (Figure 3-1, AP-3). Materials observed in this area included household refuse, 5-gallon buckets, and construction debris. The size of the dumping area is about 500 feet square and it is located hydraulically upgradient from the Lake Housing Area.

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4.4 NON-CERCLA RELATED ENVIRONMENTAL, HAZARD, AND SAFETY ISSUES

The following summarizes the results of the records review pertaining to non-CERCLA contamination substances as well as any documented hazard or safety issues.

4.4.1 Asbestos-Containing Material

The Seneca Army Depot Activity has an asbestos management program that includes building surveys for asbestos in buildings and removal actions. Approximately 50 percent of the asbestos identified in the original surveys at the Seneca Army Depot Activity has been removed. Update/follow-up inspections of buildings that were not mothballed were scheduled to be performed at the end of fiscal year 1995. Results from these inspections were not available for this report as of December 1995.

4.4.1.1 Sources of Information

Information concerning the potential presence of asbestos in buildings on the site was available from the Asbestos Management Plan Report (Seneca Army Depot Activity Asbestos Management Plan), which summarized results from:

- A 1988 survey of ACM in 144 buildings at the Seneca Army Depot Activity by Galson & Galson (the original report was also available [Galson & Galson 1988]);
- 2. A 1991 survey of 31 additional buildings by the Campbell Design Group;
- As needed inspections of 180 housing units at the Seneca Army Depot Activity by depot personnel; and
- 4. Asbestos removal efforts at the Seneca Army Depot Activity.

4.4.1.2 <u>Designation of Buildings</u>

Designation of buildings at the Seneca Army Depot Activity was based on reported identification and/or removal of asbestos. If ACM was present but not fully remediated, the building was designated "A." If asbestos was never present or was identified and fully remediated, then the building was considered to be asbestos free and no designation was given. When asbestos was

suspect (based on inspection or on construction dates before 1985) and no remediation was performed, the building was designated "A(P)" for possible presence of asbestos. An asbestos abatement contract has been written, but had not been released at the time of the 1995 EBS.

It was not always possible to determine from statements in the Asbestos Management Plan whether full or partial remediation of asbestos had occurred in a building. Therefore, full remediation was assumed only when the Asbestos Management Plan (Seneca Army Depot Activity Asbestos Management Plan) stated "all identified asbestos-containing material (ACM) removed" for non-housing units and "all floor covering removed" for family housing units in Elliot Acres (the Asbestos Management Plan reported that only the floor covering in Elliot Acres contained asbestos); in other cases, partial remediation was assumed and the building was designated "A" for presence of asbestos.

4.4.1.3 Results

Information regarding the asbestos status for each building at the Seneca Army Depot Activity is presented in Appendix G. Of 457 buildings, asbestos is present and not fully remediated in 197 buildings (designated "A") and is possible (either suspected in the survey or not surveyed and constructed prior to 1985) and not remediated in 54 buildings (designated "A(P)"). The total area for buildings designated "A" and "A(P)" is 73.11 acres. Asbestos was known to be absent (either never present or present and fully remediated) in 205 buildings (no designation).

There are no asbestos-containing building materials in the 519 ammunition igloos.

4.4.2 Lead-Based Paint

The Seneca Army Depot Activity BRAC 1995 Implementation Plan (Headquarters, Seneca Army Depot Activity 1995) indicates that all housing units in Elliot Acres, Lake Housing, and "Colonels Row" will be inspected for LBP and that inspections of other buildings and structures will be performed at the depot's suggestion. However, no information on the status of LBP on buildings at the Seneca Army Depot Activity was available. Instead, potential for LBP was evaluated based on construction dates for buildings obtained from the Inventory of Military Real Property database (Seneca Army Depot Activity 1995b).

4.4.2.1 Designation of Buildings

Painted buildings constructed prior to 1978 were designated "L(P)" for potential LBP, whereas buildings constructed in or after 1977 were considered not to contain LBP and received no designation. LBP status was designated as "L(P)" for potential LBP in buildings with unknown construction dates.

4.4.2.2 Results

Information regarding LBP status for each building at the Seneca Army Depot Activity is presented in Appendix G. Of 456 buildings, LBP is possible in 365 buildings constructed before 1978 and for 4 buildings with unknown construction dates, and is presumed absent in 86 buildings constructed after 1977. The total area for buildings designated "L(P)" is 82.17 acres.

The 519 ammunition igloos were never painted and, therefore, do not constitute an LBP hazard.

4.4.3 Polychlorinated Biphenyls .

The Seneca Army Depot Activity has a program for disposing of electrical equipment containing PCBs. Building 301, located in the Main Depot Area along Fayette Road, is the PCB Transformer Storage Facility. Decommissioned transformer units and other suspected PCB-contaminated electrical equipment are delivered to Building 301 by linemen. Sampling is conducted by the environmental coordinator to determine the concentrations of PCBs in the units and contaminated electrical equipment. The items are then disposed of by the DRMO. Transformers are stored in Building 301 for a maximum of seven months prior to disposal. It is not known to what extent the seven months policy was followed historically. This facility is a RCRA storage facility that will require closure.

There is no evidence of PCB releases from Building 301 based on regular inspections by the Seneca Army Depot Activity environmental coordinator. In addition, PCBs in soil samples in the vicinity of Building 301 were less than 1.0 milligrams per kilogram (mg/kg) and thus were below the regulatory limits established in EPA's PCB Spill Cleanup Policy (40 CFR 761). Therefore,

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Building 301 is not CERCLA regulated, but is qualified with a "P" for storage of equipment with greater than 50 parts per million (ppm) PCBs in the absence of evidence of a PCB release. The area for Building 301 is 824 square feet. The qualified area for this parcel is 0.02 acres.

4.4.4 Radon

The Seneca Army Depot Activity BRAC 1995 Implementation Plan (Headquarters, Seneca Army Depot Activity 1995) states that all Class 1 and Class 2 structures (structures that have 24-hour occupancy, living quarters, or day care or children occupancy) were tested for radon and that testing of Class 3 structures (buildings with less than continual occupancy and warehouses) was due to be completed in 1995. Radon results from surveys of 303 buildings were available from the Seneca Army Depot Activity files (Seneca Army Depot Activity Radon Survey Results). Retesting of buildings exceeding mitigation levels was completed in May 1996.

4.4.4.1 Designation of Buildings

Buildings with radon levels of 4.0 pCi/L or greater were designated "R," while those with radon less than 4.0 pCi/L were below EPA recommended mitigation levels and received no designation. It should be noted that any buildings that were not tested did not receive any designation.

4.4.4.2 Results

Information regarding radon status for 303 buildings at the Seneca Army Depot Activity is presented in Appendix G. Retesting of these buildings in May 1996 revealed that only two remained above 4.0 pCi/L. The total area for these two buildings is 0.38 acres.

4.4.5 Unexploded Ordnance

Information on the potential presence of UXO at the Seneca Army Depot Activity was available from the following sources:

 The Solid Waste Management Classification Study (Engineering Science, Inc. 1994c), which was used to identify buildings or areas in SWMUs potentially containing UXO;

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- 2. The IRMP database, which was used to identify potential UXO based on names of buildings and areas; and
- 3. On-site interviews and visual inspections.

4.4.5.1 Designation of Buildings

Buildings and areas where UXO was stored or disposed are designated "X." Buildings possibly containing UXO stored for use or disposal and areas containing possible surface or buried UXO based on previous testing, dismantling, or deactivation of UXO were designated "X(P)."

4.4.5.2 Results

The UXO status for each building or area at the Seneca Army Depot Activity is presented in Appendix G. Forty-two buildings, ten areas, and all 519 igloos were also designated "X(P)" for possible UXO stored for use or disposal. The total area is 1,303.24 acres.

4.4.6 Radionuclides

The Seneca Army Depot Activity currently stores radioactive material (radiation calibration sources) in Buildings 321 and 806 and mixed waste in Building 803 (Engineering Science, Inc. 1994c). Building 803 is presently empty. A single row of eleven storage igloos was used to store pitchblende ore (Parcel 49(5)HS/HR). This area is one of the currently recognized SWMUs (SEAD-48) and it covers about 72.79 acres. Each of these igloos and the surrounding area of land have been qualified for radionuclides. Three parcels in the North Depot Area have also been qualified for radionuclides. They correspond with BRAC Parcels 53(5)HR, 98(6)PS/HS/HR, and 103(6)HR.

A decommissioning survey was performed in 1992 and 1993 on 64 Special Weapons Area ammunition igloos (A0101, A0102, A0201 to A0218, A0301 to A0317, A0401 to A0409, A0501 to A0508, and A0601 to A0610) to confirm that the igloos have no radiation contamination and could be released for unrestricted use (Radiological Assistance Team, Seneca Army Depot Activity 1993). This survey was conducted because these igloos have been used for the storage of special weapons. No fixed or removable radiological contamination was found at the surveyed sites that

exceeded regulatory guidelines and requirements. At the request of the Seneca Army Depot Activity, these igloos will be qualified for radionuclides. Also at the installation's request, another 96 storage igloos located in the munitions storage area will be qualified for radionuclides. These are listed in Appendix G and Table 5-4. These buildings and four areas were qualified for radionuclides. The total area of buildings and parcels designated "RD" is 438.00 acres.

4.4.7 Pesticides, Herbicides, and Fungicide Usage

The Seneca Army Depot Activity has a herbicide/pesticide management program (Absolom 1994; Seneca Army Depot Activity 1994b). Herbicides and pesticides are stored for use at the Seneca Army Depot Activity in Building 606 (Parcel 74(6)PS/HS/HR). The area of Building 606 is 3,414 square feet. No qualified designation was given to non-CERCLA herbicide/pesticide areas at the Seneca Army Depot Activity (in this case, Building 606).

4.5 RESERVE ENCLAVES

Even though some areas have been identified in the *BRAC 1995 Implementation Plan* (Headquarters, Seneca Army Depot Activity 1995) as being likely to be retained by DOD, all areas within the Seneca Army Depot Activity cantonment were investigated for this EBS. Areas that have been identified as being likely to be retained include: six warehouses for future storage of hazardous materials (Buildings 339, 347, 348, 350, 356, and 357); 20 strategic materials ore storage piles; a single administrative building (Building 103); and 36 areas of known environmental contamination.

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Table 4-1a NO ACTION SOLID WASTE MANAGEMENT UNITS SENECA ARMY DEPOT ACTIVITY, NEW YORK

SWMU NUMBER	SWMU DESCRIPTION	BRAG PARCEL NUMBER AND LABEL
SEAD-1	Building 307 - Hazardous Waste Container Storage Facility	19(3)HS/HR
SEAD-2	Building 301 - PCB Transformer Storage Facility	3-301Q-L(P)/P
SEAD-7	Shale Pit	3(1)
SEAD-10	Present Scrap Wood Site	3(1)
SEAD-18	Building 709 - Classified Document Incinerator	3(1)
SEAD-19	Building 801 - Classified Document Incinerator	3(1)
SEAD-20	Sewage Treatment Plant No. 4	94(6)HR
SEAD-21	Sewage Treatment Plant No. 715	136(4)PR
SEAD-22	Sewage Treatment Plant No. 314	3(1)
SEAD-29	Building 732 - Underground Waste Oil Tank	47(3)PS/PR/HS
SEAD-30	Building 118 - Underground Waste Oil Tank	24(3)PS/PR/HS
SEAD-31	Building 117 - Underground Waste Oil Tank	25(2)PS/HS
SEAD-35	Building 718 - Waste Oil-Burning Boilers (3 units)	101(6)PS/PR/HS/HR
SEAD-36	Building 121 - Waste Oil-Burning Boilers (2 units)	87(6)PS/PR/HR(P)
SEAD-37	Building 319 - Waste Oil-Burning Boilers (2 units)	50(5)PS/PR/HR(P)
SEAD-42	Building 106 - Preventive Medicine Laboratory	27(2)PS/HS
SEAD-47	Buildings 321 and 806 - Radiation Calibration Source Storage	3(1) and 98(6)PS/PR/HS/HR
SEAD-49	Building 356 - Columbite Ore Storage	45(3)HS/HR
SEAD-51	Herbicide Usage - Perimeter of High Security Area	3(1)
SEAD-53	Munitions Storage Igloos	3(1) and 49(5)HS/HR
SEAD-55	Building 357 - Tannin Storage	3(1)
SEAD-61	Building 718 - Underground Waste Oil Tank	101(6)P8/HR/HS/HR
SEAD-65	Acid Storage Areas	41(2)HS, 42(2)HS, 43(2)HS
SEAD-72	Building 803 - Mixed Waste Storage Facility	98(6)PS/PR/HS/HR

Note: No Action SWMUs are sites which likely pose no threat to the environment.

Table 4-1b HIGH PRIORITY AREAS OF CONCERN SENECA ARMY DEPOT ACTIVITY, NEW YORK

SWMU NUMBER	SWMU DESCRIPTION	BRAC PARCEL NUMBER AND LABEL
SEAD-3	Incinerator Cooling Water Pond	48(5)HR
SEAD-4	Munitions Washout Facility Leach Field	57(6)PS/PR/HR
SEAD-6	Abandoned Ash Landfill	48(5)HR
SEAD-8	Non-Combustible Fill Area	48(5)HR
SEAD-14	Refuse Burning Pits (2 units)	48(5)HR
SEAD-15	Building 2207 - Abandoned Solid Waste Incinerator	48(5)HR
` SEAD-16	Building S-311 - Former Deactivation Furnace	82(6)PS/PR/HS/HR
SEAD-17	Building 367 - Existing Deactivation Furnace	80(6)PS/HR
SEAD-23	Open Burning Ground	104(6)PR/HS/HR
SEAD-24	Abandoned Powder Burning Pit	55(6)PR(P)/HR
SEAD-25	Fire Training and Demonstration Pad	79(6)HR
SEAD-26	Fire Training Pit	66(6)HR
SEAD-45	Demolition Area	104(6)PR/HS/HR

Notes: RI/FS currently underway at SEAD-3, SEAD-6, SEAD-8, SEAD-14, SEAD-15, and SEAD-23.

High priority AOCs are SWMUs for which a release of hazardous waste has been reported or a release is likely to have occurred.

Table 4-1c MODERATE PRIORITY AREAS OF CONCERN SENECA ARMY DEPOT ACTIVITY, NEW YORK

SWMU NUMBER	SWMU DESCRIPTION	BRAC NUMBER AND LABEL
SEAD-11	Old Construction Debris Landfill	57(6)PS/PR/HR
SEAD-13	Inhibited Red Fuming Nitric Acid (IRFNA) Disposal Site	96(6)HR and 97(6)HR
SEAD-57	Explosive Ordnance Disposal Area	104(6)PR/HS/HR

Note:

Moderate Priority AOCs are SWMUs for which there is evidence or suspicion of waste disposal, but for which the types and/or the exact locations of the wastes have not necessarily been established, and for which further investigation is a moderate priority.



Table 4-1d MODERATELY LOW PRIORITY AREAS OF CONCERN SENECA ARMY DEPOT ACTIVITY, NEW YORK

SWMU NUMBER	SWMU DESCRIPTION	BRAC NUMBER AND LABEL
SEAD-5	Sewage Sludge Waste Piles	81(6)HS/HR
SEAD-9	Old Scrap Wood Site	90(6)PR(P)/HR
SEAD-12	Radioactive Waste Burial Sites	53(5)HR and 98(6)PS/PR/HS/HR
SEAD-43	Building 606 - Old Missile Propellant Test Laboratory (refer to SEAD-56)	63(6)PS/HS/HR
SEAD-44	Quality Assurance Test Laboratory Location A: West of Building 616 Location B: Brady Road	60(6)HR 61(6)HR
SEAD-50	Tank Farm (refer to SEAD-54)	72(6)HS/HR
SEAD-54	Asbestos Storage	72(6)HS/HR
SEAD-56	Building 606 - Herbicide and Pesticide Storage (refer to SEAD-43)	63(6)PS/HS/HR
SEAD-58	Debris Area Near Booster Station 2131	106(6)HR
SEAD-59	Fill Area West of Building 135	85(6)PR/HR
SEAD-69	Building 606 - Disposal Area	63(6)PS/HS/HR

Notes: SEAD-43, SEAD-56, and SEAD-69 are included as one AOC for the SI program. SEAD-50 and SEAD-54 are included as one AOC for the SI program.

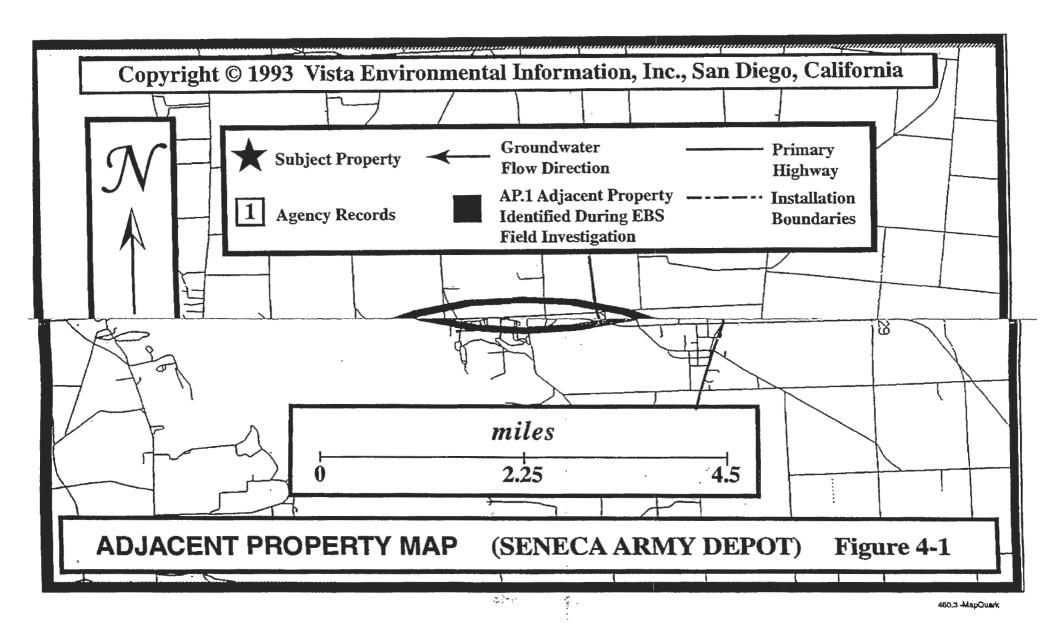
Moderately Low Priority AOCs are SWMUs for which there is evidence or suspicion of waste disposal, but for which the types and/or the exact locations of the wastes have not necessarily been established, and for which further investigation is a moderately low priority.

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Table 4-1e LOW PRIORITY AREAS OF CONCERN SENECA ARMY DEPOT ACTIVITY, NEW YORK

SWMU		PARCEL NUMBER AND
NUMBER	SWMU DESCRIPTION	LABEL
SEAD-27	Building 360 - Steam Cleaning Waste Tanks	51(5)PS/PR/HS/HR(P)
SEAD-28	Building 360 - Underground Waste Oil Tanks	51(5)PS/PR/HS/HR(P)
SEAD-32	Building 718 - Underground Waste Oil Tanks	101(6)PS/PR/HS/HR
SEAD-33	Building 121 - Underground Waste Oil Tanks	87(6)PS/PR/HR(P)
SEAD-34	Building 319 - Underground Waste Oil Tanks	50(5)PS/PR/HR(P)
SEAD-38	Building 2079 - Boiler Plant Blowdown Leach Pit	57(6)PS/PR/HR
SEAD-39	Building 121 - Boiler Plant Blowdown Leach Pit	87(6)PS/PR/HR(P)
SEAD-40	Building 319 - Boiler Plant Blowdown Leach Pit	50(5)PS/PR/HR(P)
SEAD-41	Building 718 - Boiler Plant Blowdown Leach Pit	101(6)PS/PR/HS/HR
SEAD-46	Small Arms Range	122Q-X
SEAD-48	Pitch Blend Storage Igloos	48(5)HS/HR
SEAD-52	Buildings 608 and 612 - Ammunition Breakdown Area	59(6)PS/PR/HR
SEAD-60	Oil Discharge Adjacent to Building 609	59(6)PS/PR/HR
SEAD-62	Nicotine Sulfate Disposal Area near Buildings 606 or 612	62(6)HR(P)
SEAD-63	Miscellaneous Components Burial Site	103(6)HR
SEAD-64	Garbage Disposal Areas:	
	Location A: Debris Landfill South of Storage Pad	64(6)HR
	Location B: Disposal Area South of Classification Yards	58(6)HR
	Location C: Proposed Landfill Site	3(1)
•	Location D: Disposal Area West of Building 2203	48(5)HR
SEAD-66	Pesticide Storage Near Buildings 5 and 6	92(6)HS/HR(P)
SEAD-67	Dump Site East of Sewage Treatment Plant No. 4	94(6)HR
SEAD-68	Building S-335 - Oil Pest Control Shop	108(7)HS(P)/HR(P)
SEAD-70	Building 2110 - Fill Area	104(6)PR/HS/HR
SEAD-71	Alleged Paint Disposal Area	89(6)HR

Note: Low Priority AOCs are SWMUs for which there is evidence or suspicion of waste disposal, but for which the types and/or the exact locations of the wastes have not necessarily been established, and for which further investigation is a low priority.



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5.0 ENVIRONMENTAL CONDITION OF THE PROPERTY AREA

This section presents the parcelization of the BRAC property in accordance with the criteria described in the CERFA guidance and the DOD BCP Guidebook (DOD 1993).

5.1 PARCEL DESIGNATIONS

Based on a review of installation documents; federal, state, and local records; and a site visit including employee interviews and visual inspections of the property and facilities, Woodward-Clyde divided the Seneca Army Depot Activity installation into BRAC parcels that represent the environmental condition of the property area. The BRAC parcels and corresponding categorizations are identified in Table 5-1a (following Section Five) and on the CERFA map, Figure 5-1. Areas containing non-CERCLA contamination substances are identified and delineated separately as qualified parcels and are presented in Table 5-1b (following Section Five). Qualified parcels overlay all environmental condition of the property categories (Categories 1 through 7). Parcels are labeled as described in Section 1.3. A 25-acre grid coordinate system is overlaid on the CERFA map to facilitate the parcelization discussion by geographically locating the various parcels.

Parcel boundaries are drawn using the best available information on the extent of contamination and do not follow map grid lines. Small point sources of contamination or storage, such as USTs, were delineated by circular 0.25-acre parcels centered on the source, as stipulated in DOD guidance. For consistency and to facilitate the summation of acreages, parcel acreages were calculated to two decimal places using the digitized map (Figure 5-1) and AutoCad Release 12. This method is not meant to imply an accuracy to one one-hundredth of an acre.

5.1.1 Category 1 Parcels

Woodward-Clyde's survey and subsequent parcelization of the Seneca Army Depot Activity identified four parcels, approximately 8,555 acres, as Category 1 parcels. The Category 1 parcels and locations on Figure 5-1 are described in the following sections.

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BRAC Parcel Number and Label 1(1) CERFA Map Location 18,6

This parcel is associated with most of the Lake Housing Area, with the exclusion of the housing area itself. This parcel consists of the area between the housing and the highway. The housing area is excluded from this parcel and placed in Parcel 5(2) because it is associated with petroleum storage activities. The parcel is designated as a Category 1 parcel because there has been no documented storage of hazardous substances or petroleum products; nor is there evidence of release, disposal, or migration from an adjacent property of hazardous substances or petroleum products within the identified area.

BRAC Parcel Number and Label 2(1)

CERFA Map Location 26,10

This parcel is associated with most of the Airfield Area, with the exclusion of those areas that are otherwise identified. The parcel is designated as a Category 1 parcel because there has been no documented storage of hazardous substances or petroleum products; nor is there evidence of release, disposal, or migration from an adjacent property of hazardous substances or petroleum products within the identified area.

BRAC Parcel Number and Label 3(1)

CERFA Map Location 16,15

This parcel is associated with most of the Main Depot, South Depot, Coast Guard, and North Depot Areas, with the exclusion of those areas that are otherwise identified. The parcel is designated as a Category 1 parcel because there has been no documented storage of hazardous substances or petroleum products; nor is there evidence of release, disposal, or migration from an adjacent property of hazardous substances or petroleum products within the identified area.

BRAC Parcel Number and Label 4(1)

CERFA Map Location 19,24

This parcel is associated with the small area within the Elliot Acres Housing Area. The parcel is designated as a Category 1 parcel because there has been no documented storage of hazardous

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substances or petroleum products; nor is there evidence of release, disposal, or migration from an adjacent property of hazardous substances or petroleum products within the identified area.

5.1.2 Category 2 Parcels

Of the 10,634 acres that comprise the Seneca Army Depot Activity BRAC property, 30 parcels, approximately 111 acres, were designated as Category 2. The Category 2 parcels are identified on Figure 5-1 and summarized in the following sections.

BRAC Parcel Number and Label 5(2)PS/HS

CERFA Map Location 17,2

This parcel is associated with 26 petroleum USTs and 34 ASTs located at the Lake Housing Area (Buildings 2401 to 2422, 2423 to 2439, 2441, 2443 to 2451, 2453 to 2456, 2466, 2470 to 2502, 2504 to 2505, 2507, 2508, 2510 to 2521, 2523 to 2524) and hazardous storage at Building 2456. Table 5-2 summarizes the USTs and ASTs associated with this parcel.

Table 5-2.
USTs and ASTs ASSOCIATED WITH
BRAC PARCEL NUMBER AND LABEL 5(2)PS/HR

TANK SIZE AND TYPE	STATE REGISTRATION NUMBER	STATUS
550-gallon fuel oil USTs	141 to 144, 146 to 156, 158 to 164, and 166	In service since 1942
275-gallon fuel oil ASTs	3, 14, 22, 27, 54, 60, 63, 67, 173, 186, 189, 191 to 193, 199, 204 to 209, and 216 to 224	In service since 1988
1,000-gallon fuel oil UST	71	In service since 1981
Two 275-gallon fuel oil ASTs	72	In service since 1942
2,000-gallon fuel oil AST	73	In service since 1992
Two 275-gallon fuel oil ASTs	145	In service since 1991
500-gallon fuel oil UST	157	In service since 1986
550-gallon gasoline AST	174	In service since 1991
1,500-gallon fuel oil UST	184	Closed in place with NYSDEC approval

There have been no documented releases associated with these USTs or ASTs. Building 2456 is a boat house that is used for the storage of paints and solvents. A visual inspection during the

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1995 EBS did not uncover any evidence of a release nor is there any record of a release associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 7(2)PS

CERFA Map Location 28,10

This parcel is associated with a UST located at Building 2306. This UST (SRN 70) is used to store 1,000 gallons of fuel oil and has been in service since 1957. A visual inspection of the area did not reveal any evidence of contamination or release, and there is no record of any release. This parcel is designated as Category 2.

BRAC Parcel Number and Label 9(2)HS(P)

CERFA Map Location 30,23

This parcel is associated with a rumored acid storage site and is located near the southern end of the Main Depot Area. An interview confirmed that this area had been the location of an acid storage shed. A visual inspection of the area revealed the presence of a depression that the escort reported as being near the location of the acid storage shed. The escort also claimed that the structure itself had been moved. The shed was described as being a self-contained metal unit, and there is no record or evidence that there had ever been a release. This parcel is designated as Category 2.

BRAC Parcel Number and Label 10(2)PS

CERFA Map Location 28,26

This parcel is associated with a petroleum AST located at the LORAN-C facility (SRN 215). This AST is used to store 6,000 gallons of fuel oil. There has been no documented release associated with the AST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 11(2)HS

CERFA Map Location 24.22

This parcel is associated with Building 327, a warehouse. Visual inspections and interviews conducted during the 1995 EBS indicated that pesticides, soda ash, and antifreeze have been

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stored in this building. There have been no documented releases associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 12(2)HS

CERFA Map Location 24,22

This parcel is associated with Building 326, a warehouse. A visual inspection conducted during the 1995 EBS indicated that super topical bleach (STB) and chlorine impregnate are stored in this building. There have been no documented releases associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 15(2)HS

CERFA Map Location 22,22

This parcel is associated with Building 324, a warehouse. Records indicated that columbite ore had been stored in this building from 1954 to 1974. A radionuclide survey of this building was previously conducted and no evidence of contamination was detected. There have been no documented releases associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 16(2)HS

CERFA Map Location 22,23

This parcel is associated with Building 343, a warehouse. Visual inspections and interviews conducted during the 1995 EBS indicated that pesticides, soda ash, and antifreeze have been stored in this building. There have been no documented releases associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 18(2)HS

CERFA Map Location 21,22

This parcel is associated with Building 333, a warehouse. Visual inspections and interviews conducted during the 1995 EBS indicated that solvents, STB, and diethylenetriamine (DS-2) have been stored in this building. There have been no documented releases associated with this building. This parcel is designated as Category 2.

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BRAC Parcel Number and Label 20(2)PS/HS

CERFA Map Location 21,21

This parcel contains Buildings 316, 317, 318, and 372, ordnance repair warehouses, and shops. Records and interviews indicated that solvents and petroleum products have been stored in these buildings. There has been no documented release associated with these buildings. This parcel is designated as Category 2.

BRAC Parcel Number and Label 21(2)PS

CERFA Map Location 20,23

This parcel is associated with 63 petroleum USTs and 5 ASTs located at the Elliot Acres Family Housing Area (Buildings 200 to 219 and 221 to 245). Sixty-one tanks (SRNs 74 to 81, 86 to 87, 89, 91 to 124, 126 to 134, 136 to 140, and 200 to 201) are 550-gallon fuel oil USTs. Two (SRNs 125 and 135) are 1,000-gallon fuel oil USTs. Four tanks (SRNs 82 to 85) are 275-gallon fuel oil ASTs. One (SRN 90) is a 500-gallon fuel oil AST. Installation dates of these tanks range from 1942 to 1992. There have been no documented releases associated with any of these USTs or ASTs. This parcel is designated as Category 2.

BRAC Parcel Number and Label 22(2)PS

CERFA Map Location 19,23

This parcel is associated with a petroleum UST located at Building 101 (SRN 6). This UST is used to store 3,000 gallons of fuel oil and has been in service since 1942. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 23(2)PS

CERFA Map Location 18,23

This parcel is associated with a petroleum UST located at Building 103 (SRN 1). This UST is used to store 2,500 gallons of fuel oil and has been in service since 1988. There has been no documented release associated with this UST. This parcel is designated as Category 2.

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BRAC Parcel Number and Label 25(2)PS/HS

CERFA Map Location 19,23

This parcel is associated with Building 117. This facility is a heavy equipment shop that has been used for battery maintenance and storage. Antifreeze and battery acid have been stored in this building. A waste oil UST (SRN 25) is associated with this building. This UST is used to store 2,005 gallons of waste oil. This UST is still in use and is one of the presently recognized SWMUs (SEAD-31). It has been previously classified as a No Action SWMU under CERCLA. There have been no documented releases associated with the building or UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 26(2)HS

CERFA Map Location 19,22

This parcel is associated with Building 125, a former paint shop. This building was used to store paints and solvents. There has been no documented release associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 27(2)PS/HS

CERFA Map Location 18,23

This parcel is associated with a preventive medicine laboratory and a petroleum UST located at Building 106A (SRN 9). Medical waste materials have been stored in this facility in appropriate biohazard containers. This UST is used to store 5,000 gallons of fuel oil. There has been no documented releases associated with this UST or the medical wastes. This parcel is designated as Category 2.

BRAC Parcel Number and Label 28(2)HS

CERFA Map Location 18,22

This parcel is associated with two USTs located at Building 114. These USTs (SRNs 12 and 13) are used to store 1,000 gallons each of fuel oil, and both have been in service since 1943. A visual inspection of the area did not reveal any evidence of contamination or release, and there is no record of any release. This parcel is designated as Category 2.

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BRAC Parcel Number and Label 30(2)PS

CERFA Map Location 18,21

This parcel is associated with a petroleum UST located at Building 113 (SRN 11). This AST is used to store 2,000 gallons of fuel oil. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 31(2)PS/HS

CERFA Map Location 20,21

This parcel contains Building 312, an inflammable materials storage warehouse. Records and interviews indicated that solvents, paints, antifreeze, hydrofluorosilic acid, and petroleum products have been stored in this building. There has been no documented release associated with this building. This parcel is designated as Category 2.

BRAC Parcel Number and Label 32(2)PS

CERFA Map Location 2,15

This parcel is associated with a petroleum UST located at Building 800 (SRN 45). This UST is used to store 1,500 gallons of fuel oil and has been in service since 1981. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 33(2)PS

CERFA Map Location 2,15

This parcel is associated with a petroleum UST located at Building 729 (SRN 39). This UST is used to store 2,000 gallons of fuel oil and has been in service since 1986. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 34(2)PS

CERFA Map Location 3,3

This parcel is associated with Buildings 719, 720, and 721, and two USTs. These three buildings were associated with petroleum storage, a fueling station, and a maintenance shop. A visual inspection did not reveal any evidence of staining or leaking of petroleum product. Building 719

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is a pump house for a 15,000-gallon gasoline UST (SRN 172). This UST has been in service since 1985. Building 720 is a motor vehicle shop. Building 721 is a military police maintenance and office building, which is served by a 12,000-gallon diesel UST (SRN 202) located north of the building. This UST has been in service since 1986. There have been no documented releases associated with these USTs or buildings. This parcel is designated as Category 2.

BRAC Parcel Number and Label 35(2)PS

CERFA Map Location 2,2

This parcel is associated with a petroleum UST located at Building 733 (SRN 40). This UST is used to store 1,000 gallons of fuel oil and has been in service since 1971. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 36(2)PS

CERFA Map Location 3,14

This parcel is associated with a petroleum UST located at Building 746 (SRN 43). This UST is used to store 3,000 gallons of fuel oil and has been in service since 1982. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 38(2)PS

CERFA Map Location 2,12

This parcel and area of real property is associated with two petroleum USTs located at Building 742 (SRNs 210 and 211). These USTs were used to store 3,000 gallons of gasoline each. They have been in service since 1990 but were both temporarily out of service at the time of the 1995 EBS investigation. There has been no documented release associated with these USTs. This parcel is designated as Category 2.

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BRAC Parcel Number and Label 39(2)PS

CERFA Map Location 2,12

This parcel is associated with a petroleum UST located at Building 714 (SRN 37). This UST is used to store 1,000 gallons of fuel oil and has been in service since 1957. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 40(2)PS

CERFA Map Location 2,12

This parcel is associated with a petroleum UST located at Building 740 (SRN 42). This UST is used to store 1,000 gallons of fuel oil and has been in service since 1960. There has been no documented release associated with this UST. This parcel is designated as Category 2.

BRAC Parcel Number and Label 41(2)HS

CERFA Map Location 14,9

This parcel is associated with an acid storage area south of the truck gate. This area corresponds to one of the previously recognized SWMUs (SEAD-65A). No evidence of release has been observed, and pH testing by Engineering Science, Inc. of the soils in this area did not find pH values outside of the normal range for soils. This SWMU has been previously classified as a No Action SWMU under CERCLA. This parcel is designated as Category 2.

BRAC Parcel Number and Label 42(2)HS

CERFA Map Location 14,9

This parcel is associated with an acid storage area south of the truck gate. This area corresponds to one of the previously recognized SWMUs (SEAD-65B). No evidence of release has been observed, and pH testing by Engineering Science, Inc. of the soils in this area did not find pH values outside of the normal range for soils. This SWMU has been classified as a No Action SWMU under CERCLA. This parcel is designated as Category 2.

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BRAC Parcel Number and Label 43(2)HS CERFA Map Location 14,9

This parcel is associated with an acid storage area south of the truck gate. This area corresponds to one of the previously recognized SWMUs (SEAD-65C). No evidence of release has been observed, and pH testing by Engineering Science, Inc. of the soils in this area did not find pH values outside of the normal range for soils. This SWMU has been classified as a No Action SWMU under CERCLA. This parcel is designated as Category 2.

5.1.3 Category 3 Parcels

Of the 10,634 acres that comprise the Seneca Army Depot Activity BRAC property, ten parcels, approximately 21 acres, were designated as Category 3. The Category 3 parcels are identified on Figure 5-1 and are summarized in the following sections.

BRAC Parcel Number and Label 13(3)HS/HR

CERFA Map Location 23,22

This parcel is associated with Building 330, a warehouse. Visual inspections and interviews conducted during the 1995 EBS indicated that pesticides, soda ash, and antifreeze have been stored in this building. In 1993, five gallons of an unspecified hazardous substance were spilled inside of this building. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9306000). There have been no other documented releases associated with this building. This parcel is designated as Category 3.

BRAC Parcel Number and Label 14(3)HS/HR

CERFA Map Location 22,22

This parcel is associated with Building 331, a warehouse. Visual inspections and interviews conducted during the 1995 EBS indicated that pesticides, soda ash, and antifreeze have been stored in this building. In 1992, three gallons of an unspecified hazardous substance was spilled inside this building. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9208729). There have been no other documented releases associated with this building. This parcel is designated as Category 3.

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BRAC Parcel Number and Label 17(3)HS/HR CERFA Map Location 22,22

This parcel is associated with Building 323, a warehouse. Visual inspections and interviews conducted during the 1995 EBS indicated that pesticides, soda ash, and antifreeze have been stored in this building. In 1992, three gallons of an unspecified hazardous substance were spilled inside this building. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9112897). This parcel is designated as Category 3.

BRAC Parcel Number and Label 19(3)HS/HR

CERFA Map Location 21,22

This parcel is associated with Building 307, a hazardous waste container storage facility. Records indicated that this building has been used for the storage of waste materials, such as PCBs, solvents, corrosive liquids, flammable solids, and flammable liquids. The building conforms to hazardous waste storage regulations in the state of New York (New York Regulations Title 6, Section 373-2) and is included in the RCRA Part B permit application. In 1991, 45 gallons of an unspecified hazardous substance were spilled inside this building. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9100990). This building is one of the previously recognized SWMUs (SEAD-1) and has been previously classified as a No Action SWMU under CERCLA. This parcel is designated as Category 3.

BRAC Parcel Number and Label 24(3)PS/PR/HS

CERFA Map Location 19,23

This parcel is associated with Building 118, an auto shop, and Building 120, a gas station. A 500-gallon used oil AST (SRN 23) is located at Building 118. Building 118 is one of the presently recognized SWMUs (SEAD-30) and has been classified by Engineering Science, Inc. as a No Action SWMU under CERCLA. This designation was based on the previous presence of a 550-gallon waste oil UST (Former SRN 208) that has been removed. Records indicate that no evidence of release was observed when the tank was removed in 1992. In 1992, two gallons of diesel fuel were spilled inside Building 118. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9204312). Two USTs are located at Building 120; SRN 168 is a 20,000-gallon gasoline UST and SRN 176 is a 10,000-gallon diesel fuel UST. There have been

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no documented releases associated with the AST or any of the USTs. This parcel is designated as Category 3.

BRAC Parcel Number and Label 29(3)PS/PR

CERFA Map Location 19,21

This parcel is associated with a petroleum AST located at Building 129 (SRN 187). This AST is used to store 60,000 gallons of fuel oil. In 1994, a 15-gallon release from this tank was reported because of mechanical failure. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9402116). This parcel is designated as Category 3.

BRAC Parcel Number and Label 44(3)PR/HR

CERFA Map Location 29,26

This parcel is associated with the LORAN-C building. Interviews revealed that in 1995 there was a 100-pound accidental release of halon in the control room of this building. The control room was evacuated and ventilated, and the released materials were cleaned up. No other actions were taken. In 1991, an unknown quantity of diesel fuel was released at this facility. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9306216). This parcel is designated as Category 3.

BRAC Parcel Number and Label 45(3)HS/HR

CERFA Map Location 27,25

This parcel is associated with Building 356, a warehouse. This building is one of the recognized SWMUs (SEAD-49) because it was used to store columbite ore from 1973 to 1993. According to the Solid Waste Management Unit Classification Study, no evidence of a release was observed, and a radiological survey of the building did not find any readings above background levels, leading to a No Action classification.

This building is presently used for the storage of DS-2. In June of 1995, three spills involving DS-2 were noted for this building. One spill of three gallons of DS-2 was reported to the NYSDEC (Spill No. 9503157). The other two spills involved two quarts of DS-2. The three

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spills were inside 40-foot steel containers that were being off-loaded into Building 356. These spills were cleaned up, and the reported case is closed. This parcel is designated as Category 3.

BRAC Parcel Number and Label 46(3)HR

CERFA Map Location 18,21

This parcel is associated with a scrap wood storage site. This site is one of the presently recognized SWMUs (SEAD-10). Periodic releases to the air, because of the burning of wood in this area, have been documented. This SWMU has been previously classified as a No Action SWMU under CERCLA. This parcel is designated as Category 3.

BRAC Parcel Number and Label 47(3)PS/PR/HS

CERFA Map Location 2,14

This parcel is associated with Building 732, the Auto Hobby Shop in the North Administration Area. This building has been previously classified as a No Action SWMU (SEAD-29). Interviews conducted during the 1995 EBS revealed that numerous small quantity spills of petroleum products occurred in this building. However, there have been no reported spills inside this building since 1990. Before 1990, procedures were in place for addressing the spills as they occurred to ensure prompt cleanup. The petroleum product may have also drained into the floor drains and entered the storm sewer system. The presence of an oil/water separator has likely minimized any actual release. When this facility was closed and the hydraulic lifts were removed, sampling was conducted that indicated there was no need for any remedial actions. One UST (SRN 59) is located at this site. It has a 550-gallon capacity, is used to store waste oil, and has been in service since 1982. There has been no record of leakage from this tank. This parcel is designated as Category 3.

BRAC Parcel Number and Label 129(3)HR

CERFA Map Location 19,2

This parcel is associated with an area adjacent to Building 2438, located in the Lake Housing Area. In 1993; a release of 500 gallons of sewage occurred because of a mechanical failure. The spill was cleaned up, and the case is closed. (NYSDEC Identification Number 9213269). This parcel has been designated as Category 3.

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BRAC Parcel Number and Label 130(3)PR/HR(P)

CERFA Map Location 24,23

This parcel is associated with Building 349, a warehouse. Three spills involving fuel oil, non-PCB oil, and an unknown substance, have been reported to have occurred inside this building. The spills were cleaned up, and the cases are closed (see Table 2.3 for details). This parcel has been designated as Category 3.

BRAC Parcel Number and Label 131(3)PS/PR/HS/HR

CERFA Map Location 27,25

This parcel is associated with Building 357, a warehouse. At the time of the EBS site inspection, this building was not being used for hazardous storage. However, various types of hazardous materials were stored in this building in the past. Five spills involving small quantities (5 gallons or less) of unspecified hazardous materials have been reported to have occurred inside this building. The spills were all cleaned up, and the cases are closed (see Table 2-3 for identification numbers). In 1987, a leak of 75 gallons of fuel oil was reported at this building. The release was cleaned up, and the case is closed (NYSDEC Identification Number 8708149). This parcel has been designated as Category 5.

BRAC Parcel Number and Label 132(3)PR/HR(P)

CERFA Map Location 18,17

In 1992, a small spill of "waste oil" reportedly occurred near storage igloo C509. This incident involved motor oil and hydraulic fluid released from a tractor that overturned while mowing in this area. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9206638). This parcel has been designated as Category 3.

5.1.4 Category 4 Parcels

Of the 10,634 acres that comprise the Seneca Army Depot Activity BRAC property, four parcels, approximately two acres, were designated as Category 4. The Category 4 parcels are identified on Figure 5-1 and are summarized in the following sections.

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BRAC Parcel Number and Label 6(4)PS/PR

CERFA Map Location 28;10

This parcel is associated with a UST located at Building 2310 in the Airfield Area. This UST (SRN 185) is used to store 30,000 gallons of JP8 and has been in service since 1990. A visual JP8 inspection of the area did not reveal any evidence of contamination. In 1988, this tank was reported as leaking; an unknown quantity of jet fuel was released. All necessary remedial actions have been taken, and the case is closed (NYSDEC Identification Number 9402116). This parcel is designated as Category 4.

BRAC Parcel Number and Label 8(4)PS/PR

CERFA Map Location 28,10

This parcel is associated with reported spills and a UST located at Building 2305. This UST (SRN 69) is used to store 1,000 gallons of fuel oil and has been in service since 1957. A visual inspection of the area did not reveal any evidence of contamination. In 1987, this tank was listed as a LUST. Reportedly an unknown quantity of No. 2 fuel oil was released. All necessary remedial actions have been taken and the case is closed (NYSDEC Identification Number 9011429). Two spills were reported at or near Building 2305. These have a two-gallon release of non-PCB oil that was related to an automobile accident (NYSDEC Identification Number 9411405) and a twenty-five gallon release of fuel oil from an overfilled tank (NYSDEC Identification 9011429). This parcel is designated as Category 4.

BRAC Parcel Number and Label 37(4)PS/PR

CERFA Map Location 3,12

This parcel is associated with a petroleum UST located at Building 710 (SRN 36). This UST is used to store 1,000 gallons of fuel oil and has been in service since 1991. In 1989, this UST was reported as leaking; an unknown quantity of fuel oil was released. All necessary remedial actions were taken; and the case is closed (NYSDEC Identification Number 8907242). This parcel is designated as Category 4.

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BRAC Parcel Number and Label 133(4)PS/PR CERFA Map Location 19,2

In 1992, a leach was reported involving an unknown quantity of fuel from an AST near Building 2452, located in the Lake Housing Area. All necessary remedial actions were taken, and the case is closed (NYSDEC Identification Number 9204266). This parcel has been designated as Category 4.

BRAC Parcel Number and Label 134(4)PS/PR

CERFA Map Location 2,14

In 1992, a leak was reported involving seven gallons of fuel oil from an AST near Building 752, located in the North Depot Area. All necessary remedial actions were taken, and the case is closed (NYSDEC Identification Number 9207220). This parcel has been designated as Category 4.

BRAC Parcel Number and Label 135(4)PS/PR

CERFA Map Location 19,23

In 1990, a leak was reported involving an unknown quantity of fuel oil from an AST near Building 212 in the Elliot Acres Housing Area. All necessary remedial actions were taken, and the case is closed (NYSDEC Identification Number 8910053). This parcel has been designated as Category 4.

BRAC Parcel Number and Label 136(4)PR

CERFA Map Location 2,11

This parcel is associated with Building 715, a sewage treatment plant. In 1987, a fuel line ruptured inside of Building 718, a boiler plant. The fuel oil entered the sewage system and traveled to Building 715 where it was contained in the secondary sewage treatment facility. The release was cleaned up, and the case is closed (NYSDEC Identification Number 8910830). This parcel has been designated as Category 4.

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5.1.5 Category 5 Parcels

Of the 10,634 acres that comprise the Seneca Army Depot Activity BRAC property, six parcels, approximately 207 acres, were designated as Category 5. The Category 5 parcels are identified on Figure 5-1 and are summarized in the following sections.

BRAC Parcel Number and Label 48(5)HR

CERFA Map Location 22,12

This parcel consists of a non-combustible landfill (SEAD-8), an incinerator cooling water pond (SEAD-3), an ash landfill (SEAD-6), refuse burning pits (SEAD-14), a solid waste incinerator (SEAD-15), and a disposal area west of Building 2203 (SEAD-64D).

The non-combustible landfill was used from 1974 to 1979 to dispose of materials that were either non-combustible or too bulky to be incinerated or burned. The incinerator cooling water pond was used from 1974 to 1979 to hold the cooling water and fly ash generated from the scrubber of the solid waste incinerator. The fly ash was removed every 18 months and disposed of at the ash landfill. The ash landfill was used from 1941 to the late 1950s or early 1960s, and again from 1974 to 1979. Ash from the refuse burning pits was disposed of from 1941 until the late 1950s or early 1960s. In 1994 and 1995, soil from the ash landfill was excavated and treated utilizing a Low Temperature Thermal Desorption system. Groundwater contamination at this site remains to be mitigated. The refuse burning pits were used from 1941 to 1974 to burn all wastes generated on the depot until the incinerator opened in 1974. After burning, metal was removed for recycling and the ash was pushed into the ash landfill. The solid waste incinerator was used from 1974 to 1979 to burn depot refuse.

The disposal area west of Building 2203 was reportedly used for the dumping of crushed heavy gauge metal drums, empty smoke generating canisters, and various other metallic debris. Five of these SWMUs (SEADs-3, 6, 8, 14, and 15) have been combined into an Operable Unit, referred to as the Ash Landfill, that is currently being investigated under the CERCLA RIFS. Results of an ESI conducted by Engineering Science, Inc. indicated that one large debris pile in the southwestern portion of SEAD-64D may have impacted the soils and groundwater locally. Engineering Science, Inc. has recommended an RIFS for this SWMU.

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This parcel is designated as Category 5.

BRAC Parcel Number and Label 49(5)HS/HR CERFA Map Location 29,19

This parcel is associated with 11 pitchblende storage igloos (EO801 to EO811) and a railroad loading area. In the 1940s, the igloos were used for the storage of about 2,000 barrels of pitchblende, a uranium ore. After the pitchblende was removed, the igloos were used for the storage of conventional munitions until about 1979. This area is a previously recognized SWMU (SEAD-48). In 1976, a radiological survey indicated that while no health hazards existed, the radiation levels present were in excess of allowable concentrations that would permit unrestricted use of the 11 storage igloos and the surrounding areas. Remediation was conducted in the 1980s, but NYSDEC and the New York State Department of Health found that contamination still existed. This SWMU has been classified as a Low Priority AOC under CERCLA, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 5.

BRAC Parcel Number and Label 50(5)PS/PR/HR(P) CERFA Map Location 21,22

This parcel consists of two waste oil storage USTs (SEAD-34), a boiler blowdown leach pit (SEAD-40), and two waste oil burning boilers at Building 319 (SEAD-37).

Both of the USTs have been in use since 1951 for fuel oil storage, and small quantities of waste oil were stored in them from 1982 to 1989. One tank has a 30,000-gallon capacity (SRN 196) and the other has a 20,000-gallon capacity (SRN 197). Limited sampling by Engineering Science, Inc. detected the presence of total petroleum hydrocarbon (TPH) in two soil samples. In 1994, a LUST were reported at this location; 40 gallons of gasoline were released. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9402630). This SWMU is classified as a Low Priority AOC, and an RIFS of this SWMU is scheduled.

In 1994, 40 gallons of fuel oil were released in this area. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9402630). In 1992, 30 gallons of fuel oil were

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released in this area. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9111882).

The boiler blowdown leach pit was used from the time the boilers were first placed in service to the time when the blowdown points were connected to the sanitary sewer system in 1979 or 1980, which constitutes a first step toward remediation of this area. Limited sampling by Engineering Science, Inc. detected TPH in surface and subsurface soil samples. This SWMU is classified as a Low Priority AOC, and remedial action has been recommended by Engineering Science, Inc.

The two boilers in Building 319 were used to burn a waste oil and No. 6 fuel oil mixture from 1982 to 1989 and are still functional. This SWMU is classified as a No Action SWMU under CERCLA.

This parcel is designated as Category 5.

BRAC Parcel Number and Label 51(5)PS/PR/HS/HR(P) CERFA Map Location 21,21

This parcel consists of two waste oil USTs (SEAD-28), three fuel oil USTs, and a steam (Jenny) cleaning waste tank (SEAD-27). All of these facilities are located at Building 360 in the Main Depot Area just west of the IPE Subarea. The two waste oil USTs (SRN 26, Building 355E; and SRN 206, Building 355W) had a 2,005-gallon capacity and had been used since 1981 to provide a fuel supplement to boilers. SRN 206 was found to contain water in 1993 and was subsequently removed. SRN 26 was unused and subsequently removed in December of 1994. A visual inspection in 1990 revealed that waste oil had been spilled around both of the tanks. Removal and appropriate disposal of surficial soil in this area was conducted, but NYSDEC requires that SEAD-28 be considered an AOC. It has been classified as a Low Priority AOC, and the development of a Site Inspection (SI) Workplan has been recommended by Engineering Science, Inc.

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The three fuel oil USTs located in this parcel are SRN 29 (500-gallon), SRN 30 (500-gallon), and SRN 31 (1,000-gallon). Tanks 29 and 30 have been in place since 1969 and Tank 31 since 1980. There is no evidence of a release from any of these three USTs. The steam cleaning waste tank is an open-top concrete tank with a grate over the top. It has a maximum capacity of 4,500 gallons. It was in use from 1976 to 1989 to collect wastewater from the cleaning and degreasing of equipment that was being refurbished in Building 360. This SWMU has been previously classified as a Low Priority AOC, and a RCRA Closure Plan is under review. This parcel is designated as Category 5.

BRAC Parcel Number and Label 52(5)PR

CERFA Map Location 19,23

This parcel is associated with an oil spill that started from a failed UST at Building 138. The incident occurred on November 19, 1992 and involved the release of approximately 1,900 gallons of fuel oil. The oil drained from the tank into the storm drain, then into a drainage ditch, and ultimately into Kendaia Creek. The total length of the release is about one mile. The incident was reported to NYSDEC (LUST No. 9209672) and cleanup actions followed. However, based on an interview conducted during the 1995 EBS, and the unavailability of a closure report regarding this incident, it appears that additional remediation efforts may still be required. This parcel is designated as Category 5.

BRAC Parcel Number and Label 53(5)HR

CERFA Map Location 3,17

This parcel is associated with an area located northeast of Building 813 that was used for radioactive burial. This area is one of the previously recognized SWMUs (SEAD-12A). Reported radioactive waste was buried here in the form of swipes and other laboratory wastes. This area was excavated in 1986, and the trash was containerized and shipped to an authorized off-post radioactive waste landfill in December 1987. The results of an ESI conducted by Engineering Science, Inc. indicated that fill material sampled at this location has been contaminated by heavy metals. This SWMU is classified as a Moderately Low AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 5.

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5.1.6 Category 6 Parcels

Of the 10,634 acres that comprise the Seneca Army Depot Activity BRAC property, 53 parcels, approximately 1,725 acres, were designated as Category 6. The Category 6 parcels are identified on Figure 5-1 and are summarized in the following sections.

BRAC Parcel Number and Label 54(6)HR(P)

CERFA Map Location 16,2

This parcel is associated with a lift station located by Building 2409, a former pump house presently used for dry storage. A raw sewage release was observed on the east side of this building during the 1995 EBS visual inspection. The lift station receives wastes from multiple sources, potentially containing hazardous substances. This parcel is designated as Category 6.

BRAC Parcel Number and Label 55(6)PR(P)/HR

CERFA Map Location 18,11

This parcel is the abandoned powder burning pit. This area is one of the previously recognized SWMUs (SEAD-24). Records indicate that black powder, M10 and M6 solid propellants, and probably explosive-contaminated trash were disposed of in this area from the 1940s to the 1950s. An ESI conducted at this site by Engineering Science, Inc. indicated soil contamination from arsenic has occurred. TPH was also documented in low concentrations. No adverse impacts to the groundwater have occurred. This SWMU has been classified as a High Priority AOC, and a removal action in conjunction with a limited investigation has been recommended by Engineering Sciences, Inc. This parcel is designated as Category 5.

BRAC Parcel Number and Label 56(6)PR

CERFA Map Location 29,12

This parcel is the site of an aviation fuel spill that occurred in 1990 and was revealed during an interview. The incident occurred on the "hot pad" located about 800 feet west of Building 2312. The spill involved more than 50 gallons of fuel, which ran off the pad into the grass. No records indicate that this spill was cleaned up. Records indicate that two other spills of aviation fuel also

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respect.

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occurred at this location. These spills were cleaned up, and these cases are closed (see Table 2-3 for details). This parcel is designated as Category 6.

BRAC Parcel Number and Label 57(6)PS/PR/HR

CERFA Map Location 32,17

This parcel consists of a fuel oil AST at Building 2076, a UST at Building 2073, the former munitions washout plant (SEAD-4), a construction debris landfill (SEAD-11), a boiler plant blowdown leach pit at Building 2079 (SEAD-38), and dumping areas. Other buildings included within this parcel are S-2084, 2077, 2078, and 2081. The fuel oil AST located at Building 2076 (SRN 4) has a 275-gallon capacity and has been in service since 1988. No evidence of a release from this tank was found. In 1993, a leak of an unknown quantity of fuel oil was reported at Building 2079. The release was cleaned up, and the case is closed (NYSDEC Identification Number 9307375).

This parcel is also associated with a petroleum UST located at Building 2073 (SRN 203). This UST is used to store 1,000 gallons of fuel oil and has been in service since 1986. In 1992, 15 gallons of fuel oil were spilled at Building 2073. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9209232).

The munitions washout plant was used from 1948 to 1963. The results of an ESI conducted by Engineering Science, Inc. at this area indicate that impacts to the surface soils, sediment, surface water, and groundwater have occurred. An effort was made during the ESI to locate a leach field that was associated with this facility. The leach field was not found, but three different surface water drainages were found to be impacted. This SWMU has been classified as a High Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

The construction debris landfill was used from 1946 to 1949. An ESI conducted at this site by Engineering Science, Inc. indicates that impacts to the surface and subsurface soils have occurred. The results of a groundwater sampling program conducted by Engineering Science, Inc. indicate that iron, lead, and sodium were present in individual downgradient wells at

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concentrations above criteria values. This SWMU has been classified as a Moderate Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

The boiler plant blowdown leach pit at Building 2079 was in use until 1979 or 1980. Results of a limited sampling program conducted by Engineering Science, Inc. at this site indicated that TPH was present in the surface soil samples at levels considered to be evidence of a release of petroleum hydrocarbons. This SWMU has been classified as a Low Priority AOC, and a Remedial Action has been recommended by Engineering Science, Inc.

Visual inspections during the 1995 EBS revealed that dumping activities have occurred in the "50 Area" west of Seneca Road and south of Indian Creek Road. Two of the dumping areas were observed to contain concrete blocks and fill dirt (SMK-42 and SMK-43; SMK are the initials of one of the field investigators and were used to label and track areas of visual inspection), one had steel drums (SMK-44), and one is believed to be a former railroad dump containing railroad ties and scrap metal (SMK-46). An aerial photograph from circa 1941 showed a construction staging area located within this parcel.

This parcel is designated as Category 6.

BRAC Parcel Number and Label 58(6) HR CERFA Map Location 31,19

This parcel is associated with a former garbage disposal area south of the classified yards and north of Ovid Road. This area is one of the previously recognized SWMUs (SEAD-64B). Results of an ESI conducted at this site by Engineering Science, Inc. indicate that minimal impacts to the soll, sediment, surface water, and groundwater have occurred. This SWMU is classified as a Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 59(6)PS/PR/HR CERFA Map Location 31,22

This parcel is associated with an ammunition breakdown area at Buildings 608 and 612 (SEAD-52), an oil discharge adjacent to Building 609 (SEAD-60), and a UST and an AST at Building 609. The ammunition breakdown area has been in use from the 1940s to the present. A limited sampling program by Engineering Science, Inc. has detected the presence of explosive compounds in the soil, constituting evidence of a release. This SWMU is classified as a Low Priority AOC, and the development of an ESI Workplan has been recommended by Engineering Science, Inc.

The oil discharge area immediately west of Building 609 was discovered in 1989 and is believed to have come from a pipe located inside of the building. Results of an ESI conducted at this site by Engineering Science, Inc. revealed the presence of petroleum hydrocarbons and PAHs, heavy metals, and (to a lesser extent) PCB compounds in the surface soils. Semi-volatile organic compounds (SVOCs) and TPH were found in sediment samples taken downslope of the oilstained soil. TPH has also been shown to have impacted the groundwater beneath the oil release area. This SWMU is classified as a Low Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

Fuel oil storage has also occurred within this parcel. Associated with Building 609 are a UST and an AST. SRN 34 was a 3,000-gallon UST that had been in service since 1954. This tank was removed in August 1996 and will be replaced by a 3,000-gallon AST in October 1996. The SRN will remain as 34. SRN 35 is a 1,000-gallon AST that has been in service since 1953. No evidence of release from either of these tanks has been documented.

This parcel is designated as Category 6.

BRAC Parcel Number and Label 60(6)HR CERFA Map Location 32,23

This parcel is associated with a material proof and surveillance test area west of Building 616.

This area was used between 1960 and 1980 and is one of the previously identified SWMUs

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(SEAD-44A). The results of an ESI conducted at this site by Engineering Science, Inc. indicate that there have been no significant releases to the media investigated. However, organic compounds were detected at elevated concentrations in the berm excavation samples. This SWMU was classified as a Moderately Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 61(6)HR

CERFA Map Location 30,22

This parcel is associated with a material proof and surveillance test area on Brady Road. This area was used between 1960 and 1980 and is one of the previously identified SWMUs (SEAD-44B). The results of an ESI conducted at this site by Engineering Science, Inc. indicated that there have been no significant releases to the media investigated. However, elevated concentrations of PAH compounds were detected in a soil sample. This SWMU was classified as a Moderately Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 62(6)HR(P)

CERFA Map Location 31,23

This parcel is associated with a nicotine sulfate disposal area near Buildings 606 and 612. This area was previously reported to have been used for the burial of drums containing nicotine sulfate and is one of the previously identified SWMUs (SEAD-62). An ESI conducted at this site by Engineering Science, Inc. did not identify any areas that were used for the disposal of nicotine sulfate nor were there any areas that had been significantly impacted by a release of oil or other hazardous materials. This SWMU was classified as a Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 63(6)PS/HS/HR

CERFA Map Location 30,25

This parcel is associated with the old missile propellant laboratory and a UST at Building 606 (SEAD-43), a disposal area southeast of Building 606 (SEAD-69), and a former herbicide and

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pesticide storage area at Building 606 (SEAD-56). A 2,000-gallon fuel oil UST (SRN 33) was located at Building 606. This UST was installed in 1956 and it was removed in August 1996. This tank will not be replaced and its SRN has been reassigned. Building 606 was used as a missile propellant test laboratory in the 1960s. From 1976 to the present, the building has been used for pesticide and herbicide storage. It has been reported that debris, including fence posts, 2,4-D cans, and pesticide cans, has been disposed of southeast of Building 606. The results of an ESI conducted at these three SWMUs by Engineering Science, Inc. indicated that no significant impacts have occurred to any of the media investigated at this site. Limited releases of PAHs were detected in the soil samples collected in close proximity to Building 606. All of the remaining PAHs that were detected at these SWMUs were found at concentrations that were either below their respective Technical Assistance Guidance Memorandum levels (TAGMs) or exceeded their respective TAGMs by less than a factor of three. According to the ESI report (Engineering Science, Inc. 1995a), metals were the only other constituents that were detected at concentrations that slightly exceeded their respective criteria for soils, groundwater, surface water, and sediment. However, no significant concentrations of heavy metals were found at these SWMUs. All three of these SWMUs have been classified as Moderately Low Priority AOCs, and mini-risk assessments have been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 64(6)HR CERFA Map Location 25,22

This parcel is associated with a disposal area west of Building 2203. It has been reported that asbestos and debris, including metal drums, empty smoke-generating canisters, and other metal debris, have been dumped in this area. This parcel is one of the previously identified SWMUs (SEAD-64A). The results of an ESI conducted by Engineering Science, Inc. at this location suggest that there have been several localized impacts to the soil and groundwater. The SWMU was classified as a Low Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 65(6)HS/HR(P) CERFA Map Location 25,22

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is zinc, which is considered a hazardous material. U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 66(6)HR

CERFA Map Location 26,22

This parcel is associated with a fire training pit and area located to the south of Building 328.

This training pit and area have been in use from 1977 to the present. This parcel is one of the previously recognized SWMUs (SEAD-26). An ESI conducted at this site by Engineering Science, Inc. indicated that SVOCs were detected at concentrations above TAGM values in several of the surface and subsurface soil samples analyzed, and the site is considered to pose a threat. This SWMU has been classified as a High Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 67(6)HS/HR(P)

CERFA Map Location 26,26

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is chromite, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 68(6)HS/HR(P)

CERFA Map Location 25,25

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is aluminum oxide, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 69(6)HS/HR(P)

CERFA Map Location 26,26

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is antimony, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 70(6)HS/HR(P)

CERFA Map Location 26,26

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is ferro chrome, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 71(6)HS/HR(P) CERFA Map Location 26,25

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is antimony, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 72(6)HS/HR CERFA Map Location 25,24

This parcel is associated with the Tank Farm Area. At one time, there may have been as many as 60 ASTs used to store antimony, asbestos, silicon carbide, and rutile. Presently, only four of the tanks remain: Tanks 8 and 17, antimony storage; Tank 88, asbestos storage; and Tank 302, rutile storage. An ESI conducted of this area by Engineering Science, Inc. has documented a hazardous release associated with these ASTs (Engineering Science, Inc. 1995a). This area comprises two of the recognized SWMUs (SEADs 50 and 54) that have been combined as SEAD-50 and was previously classified as a Moderately Low Priority AOC. A Decision Document outlining a limited sampling program and a removal action was recommended. This parcel is designated as Category 6.

BRAC Parcel Number and Label 73(6)HS/HR(P) CERFA Map Location 24,23

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is chromite, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 74(6)HS/HR(P) CERFA Map Location 24,22

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is ferro manganese, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 75(6)HS/HR(P) CERFA Map Location 23,23

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is chromite, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 76(6)HS/HR(P) CERFA Map Location 22,23

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is ferro manganese, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 77(6)PR/HR

CERFA Map Location 22,22

This parcel is associated with an area to the north of Building 325 where PCBs were reported to have been spilled. An interview revealed that 55 gallons of PCB oil were spilled in this location, but it was uncertain when. It was reported that there was no cleanup of this release, and there is no record that this spill was ever reported to NYSDEC. This parcel is designated as Category 6.

BRAC Parcel Number and Label 78(6)HS/HR

CERFA Map Location 21,21

This parcel is associated with the DRMO yard to the west of Building 360. Interviews revealed that hazardous materials such as solvents and PCB oil have been dumped in this area. The parcel has been designated as Category 6.

BRAC Parcel Number and Label 79(6)HR

CERFA Map Location 20,22

This parcel is associated with a fire training and demonstration pad to the north of Ordnance Road and west of Administration Avenue. This facility has been in use since the late 1960s and is one of the previously recognized SWMUs (SEAD-25). An ESI conducted at this site by Engineering Science, Inc. revealed that BTEX compounds have impacted the surface and subsurface soils and groundwater at this site. This SWMU was classified as a High Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 80(6)PS/HR

CERFA Map Location 20,20

This parcel consists of an AST and a deactivation furnace located at Building 367. A 2,000-gallon fuel oil AST (SRN 32) was installed at this building in 1990. There is no record of release from this AST. This area corresponds with one of the previously identified SWMUs (SEAD-17). The furnace was used from 1962 to the present for the destruction of ammunition and is currently operating under interim status as part of the Part B RCRA permit. Proper closure of the site will

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be required as part of the RCRA permit. An ESI conducted at this SWMU by Engineering Science, Inc. indicated that impacts to the surface soils from the release of SVOCs and heavy metals have occurred at this site. This SWMU is classified as a High Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 81(6)HS/HR CERFA Map Location 19,21

This parcel is associated with sewage sludge waste piles from the two sewage treatment plants. Sewage sludge has been deposited here since 1980. This area is one of the previously recognized SWMUs (SEAD-5). An ESI conducted at this SWMU by Engineering Science, Inc. revealed a significant release of PAHs in the material of the sewage sludge piles; however, it appears that the groundwater underneath the piles has not been impacted. This SWMU was classified as a Moderately Low AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 82(6)PS/PR/HS/HR CERFA Map Location 19,21

This parcel consists of a deactivation furnace located at Building S-311, a previously reported LUST at Building S-311, and a raw material storage yard at Building S-361. The deactivation furnace corresponds to one of the previously identified SWMUs (SEAD-16). The furnace was used from 1945 to the mid-1960s for the destruction of small arms. An ESI conducted at this SWMU by Engineering Science, Inc. indicated that impacts to the surface soils from the release of heavy metals and SVOCs have occurred at this site. This SWMU was classified as a High Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

The database search and Seneca Army Depot Activity records indicate that in 1993 a LUST was reported at Building S-311. It was reported that 20 gallons of No. 2 fuel oil were released and that the case is still open (NYSDEC Identification Number 9307284).

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A raw material storage yard located west of Building S-361 and containing drums, scrap wood, and other materials was observed during the 1995 EBS.

This parcel is designated as Category 6.

BRAC Parcel Number and Label 83(6)HS/HR(P)

CERFA Map Location 19,19

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is chromite, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. contain drums, scrap wood, and other materials. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 84(6)PS/PR/HR(P)

CERFA Map Location 18,19

This parcel is associated with Building 306, an inspector's workshop, and Building 308, a boiler house. Records indicate that a 1,000-gallon fuel oil UST (SRN 20) is located at Building 308. This UST has been in service since 1942. Interviews conducted during the 1995 EBS revealed that petroleum has been released in the area of Building 306. The interviews also revealed that paints and solvents have been stored in this building and may have been released. This parcel is designated as Category 6.

BRAC Parcel Number and Label 85(6)PR/HR

CERFA Map Location 19,21

This parcel is associated with a fill area west of Building 135. The contents of this fill area are unknown. This area corresponds to one of the previously identified SWMUs (SEAD-59). An ESI conducted at this SWMU by Engineering Science, Inc. identified several areas that have been impacted by releases of volatile organic compounds (VOCs), SVOCs, TPH, and, to a lesser extent, heavy metals. Analyses also indicated that the groundwater has been moderately

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impacted by TPH. This SWMU was classified as a Moderately Low Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 86(6)PR/HS/HR

CERFA Map Location 19,22

This parcel is associated with Building 135. This building has been used for vehicle storage over the last 25 years. A visual inspection during the 1995 EBS documented that the dirt floor was extensively stained with oil, fuel, and hydraulic fluid. An interview for the 1995 EBS revealed that this building had been used for acid storage. This interview also documented the release of acids in this building. This parcel is designated as Category 6.

BRAC Parcel Number and Label 87(6)PS/PR/HR(P)

CERFA Map Location 19,23

This parcel consists of a waste oil UST (SEAD-33), two waste oil burning boilers (SEAD-36), and a boiler blowdown leach pit (SEAD-39). All of these facilities are located at Building 121. The UST (SRN 198) has a 30,000-gallon capacity and has been in use since 1943. Small quantities of waste oil were stored in it from 1982 to 1989, and it was also used to store fuel oil. Limited sampling conducted by Engineering Science, Inc. detected the presence of TPH in the soil adjacent to this tank. This SWMU was classified as a Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc.

The waste oil burning boilers were used to burn a waste oil and No. 6 fuel oil mixture from 1982 to 1989. The only releases known are permitted air emissions. This SWMU was classified as a No Action SWMU under CERCLA by Engineering Science, Inc. The boiler blowdown leach pit was in use until the blowdown points were connected to the sanitary sewer in 1979 or 1980. Results of limited sampling performed at this site by Engineering Science, Inc. revealed TPH in the soil. This SWMU has been classified as a Low Priority AOC, and a Remedial Action has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 88(6)PS/PR CERFA Map Location 19,22

This parcel is associated with a UST and stained mound located near Building 127. The UST (SRN 177) has a 12,000-gallon capacity and is used to store diesel fuel. It has been in service since 1985. A visual inspection of this UST during the 1995 EBS documented some discoloration of the concrete at the base of the pump. The visual inspection also noted an earthen mound with oil or hydraulic fluid staining to the southwest of Building 127. This parcel is designated as Category 6.

BRAC Parcel Number and Label 89(6)HR

CERFA Map Location 18,22

This parcel is associated with an alleged paint/solvent disposal area located west of Building 127. This site is one of the previously recognized SWMUs (SEAD-71). The results of an ESI conducted at this location by Engineering Science, Inc. revealed that the soils have been impacted by waste materials that were placed in at least one disposal pit on site. Groundwater at the site has not been significantly impacted by any of the constituents for which analyses were conducted during the ESI. This SWMU is classified as a Low Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 90(6)PR(P)/HR

CERFA Map Location 17.22

This parcel is associated with an old scrap wood site located north of Kendaia Road and south of the East Patrol Road. The site was used to dispose of scrap wood from 1984 to 1986, and construction debris was dumped at this site from 1977 to 1984. This site is one of the recognized SWMUs (SEAD-9). The results of an ESI conducted at this site by Engineering Science, Inc. indicated that releases of PAHs, hydrocarbons, and inorganic metals have occurred in the fill material of the site. These results also indicated that TPH has impacted the groundwater downgradient of the site. This SWMU was classified as a Moderately Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 91(6)HS/HR(P)

CERFA Map Location 17,19

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is chromite, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 92(6)HS/HR(P)

CERFA Map Location 16,19

This parcel is associated with a former pesticide storage area that is known to have been located in the vicinity of Buildings 5 and 6. This area corresponds with one of the previously recognized SWMUs (SEAD-66). The exact location of the former pesticide storage area is unknown. However, a small shed adjacent to Building 5 and a concrete pad adjacent to Building 6 are considered as possible locations of the former pesticide area. Limited sampling conducted in this area resulted in the detection of pesticide compounds above NYSDEC TAGMs. This SWMU has been classified as a Low Priority AOC, and an RI/FS Scoping Plan is being developed. This parcel is designated as Category 6.

BRAC Parcel Number and Label 93(6)HS/HR(P)

CERFA Map Location 16,19

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is aluminum oxide, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 94(6)HR

CERFA Map Location 16,20

This parcel is associated with Sewage Treatment Plant No. 4 (SEAD-20) and a dump site to the east of the plant (SEAD-67). Sewage Treatment Plant No. 4 has been used from 1942 to the present. The facility is operated under a NYDES permit. This SWMU was classified as a No Action SWMU under CERCLA by Engineering Science, Inc.

The area to the east of Sewage Treatment Plant No. 4 was reportedly used as a dump site. An ESI conducted at this SWMU by Engineering Science, Inc. identified soils and sediment that have been impacted predominately by PAHs and mercury. Groundwater and surface water at the site have not been significantly impacted by any of the constituents for which analyses were conducted during the investigation. This SWMU has been classified as a Low Priority AOC, and a limited sampling program and removal action have been recommended by Engineering. Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 95(6)HS/HR(P)

CERFA Map Location 16,19

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is ferro manganese, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 96(6)HR(P)

CERFA Map Location 11,19

This parcel is associated with an abandoned IRFNA Disposal Site. This facility was in use during the 1960s, and this area corresponds to one of the locations of a previously identified SWMU (SEAD-13). An ESI conducted at this SWMU by Engineering Science, Inc. indicates that impacts to the groundwater have occurred at this site. This SWMU was classified as a

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Moderate Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 97(6)HR(P) CERFA Map Location 11,20

This parcel is associated with an abandoned IRFNA Disposal Site. This facility was in use during the 1960s and this area corresponds to one of the locations of a previously identified SWMU (SEAD-13). An ESI conducted at this SWMU by Engineering Science, Inc. indicates that impacts to the groundwater have occurred at this site. This SWMU was classified as a Moderate Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 98(6)PS/PR/HS/HR CERFA Map Location 4,17

This parcel is associated with Buildings 801, 802, 803, 804, 805, 806, 807, 810, 813, 814, 815, 816, 817 and 819, and storage igloos A0101 and A0102. It also includes three of the previously recognized SWMUs (SEAD-72, SEAD-12B, and SEAD-19). Building 803 (SEAD-72) is a mixed waste storage building that at one time was used to store classified materials. Floor drains are located in each vault drain to the exterior and front of the building. No evidence of release has been documented, and, during a site visit by NYSDEC, it was noted that the floor drains had been plugged. This facility is a RCRA facility operating under interim status and must undergo closure as a requirement of the RCRA permit. This SWMU was previously classified as a No Action SWMU under CERCLA.

SEAD-12B consists of Building 804 and two burial pits located to the north, and Building 805. One of the pits was used for dry storage and the other contained a UST that was used for wastewater storage. The wastewater was generated during the washing of radioactive-contaminated clothing. The area was excavated in 1986. An ESI conducted at this SWMU by Engineering Science, Inc. indicated that although there has been no impacts to soils at this location, the groundwater has been impacted by the release of radionuclides. Building 805 is included in the SWMU because it has the potential to have residual radioactive contamination.

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This SWMU has been classified as a Moderately Low Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

In 1989, an unknown quantity of fuel oil was released from a tank at Building 806. All necessary remedial actions have been taken, and the case is closed (NYSDEC Identification Number 8907722). In 1991, seven gallons of gasoline were released from a tank at Building 807. The release was cleaned up, and the case is closed (NYSDEC Identification Number 9412037).

SEAD-19 consists of Building 810 and a classified document incinerator. The incinerator was operated from 1956 to 1983. This SWMU was previously classified as a No Action SWMU under CERCLA.

Building 815 was a paint shop, and Buildings 813 and 814 were used for storage. Extensive amounts of paints and solvents were used and stored in these facilities. There was no visible evidence of spills or leaks in these buildings. However, interviews conducted during the 1995 EBS revealed that unknown quantities of paints and solvents were disposed of into the drainage ditch that flows north, immediately east of Building 813.

Buildings 816 and 817 were associated with a classified mission. The majority of Building 816 was not available for inspection. Interviews with a radiation protection officer revealed that a potential release of radionuclides occurred within the area of these buildings. Two radiation screening rooms, with venting leading directly outside the buildings, were also observed. Aerial photograph analysis during the 1995 EBS also revealed disturbed ground directly west of Building 816. A visual inspection of this area during the 1995 EBS confirmed that the disturbance had occurred. Interviews and records searches could not confirm or deny whether or not any burial activities were conducted in this area.

A visual inspection was attempted at Building 810 during the 1995 EBS, but access to this entire building was denied based on the classified mission of the building. A visual inspection was attempted of the ammunition storage igloos A0101 and A0102 and the surrounding area. Access

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to this area during the 1995 EBS was denied based on the classified mission of the area. A visual inspection of Building 819 was performed, but its mission could not be described.

Nine USTs are also located within this parcel. A 1,000-gallon fuel oil UST (SRN 46) is located at Building 802. This UST has been in service since 1956. A fuel oil UST (SRN 47) with a 1,000-gallon capacity is located at Building 805. This UST has been in service since 1956. A UST located at Building 806 (SRN 48) is used to store 1,000 gallons of fuel oil and has been in service since 1991. A visual inspection of the area did not reveal any evidence of contamination or release, and there is no record of any release. A UST located at Building 812 (SRN 52) is used to store 1,500 gallons of fuel oil and has been in service since 1956. A visual inspection of the area did not reveal any evidence of contamination or release, and there is no record of any release. The tank list shows two fuel oil USTs associated with Building 819. SRN 57 was a 3,000-gallon UST that had been in service since 1957. This tank was removed and replaced with a 1,000-gallon AST (SRN 26) in August 1996. SRN 182 is a 10,000-gallon UST that has been in service since 1981. There is a 2,500-gallon UST (SRN 53) located at Building 813 that has been in service since 1990. There is a 3,000-gallon UST (SRN 56) located at Building 817 that has been in service since 1983. There is a 1,000-gallon UST (SRN 56) located at Building 817 that has been in service since 1959.

An RI/FS Workplan that is currently under regulatory review has been prepared for this parcel by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 99(6)PS/PR CERFA Map Location 3,15

This parcel is associated with a former Military Police (MP) fueling station located northwest of Building 810. Two ASTs located behind Building 810 (SRNs 50 and 51) are presently located at this site. Both of these date to 1963, are used to store fuel oil, and have a 550-gallon capacity. A visual inspection during the 1995 EBS did not reveal any staining or stressed vegetation. However, interviews with base personnel revealed that the MPs fueled their vehicles in this area on a daily basis. Interviewees were certain that they had witnessed frequent spilling of petroleum products. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 100(6)PS/PR/HS/HR CERFA Map Location 3,14

This parcel is associated with Building 747. A visual inspection was attempted at this building; however, access to the building and the surrounding area was denied. The tank list shows that there is a 4,000-gallon fuel oil UST (SRN 44) associated with this building that has been in service since 1982. No release has been documented for this UST. An interview conducted during the mid-EBS meeting in January 1996 revealed that this building has been used for storage of battery acids and paints and that releases of petroleum product and solvents have occurred. In 1992, 10 gallons of fuel oil were reportedly spilled at this building. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9207312). This parcel is designated as Category 6.

BRAC Parcel Number and Label 101(6)PS/PR/HS/HR CERFA Map Location 3,13

This parcel is associated with Building 718 and four of the previously recognized SWMUs (SEAD-32, SEAD-35, SEAD-41, and SEAD-61). Building 718 was a boiler house for the entire North Depot Area. Several documented releases were associated with this building and have been investigated, including a 3000-gallon fuel oil release that was reported in 1987 (NYSDEC Identification Number 8910830).

SEAD-32 consists of two waste oil storage USTs that were used to store small quantities of waste oil from 1982 to 1989. Results of limited sampling conducted by Engineering Science, Inc. detected elevated readings of TPH in soils in this area and in one groundwater sample. This SWMU was classified as a Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc.

SEAD-35 consists of three waste oil burning boilers inside of Building 718. This SWMU was previously classified as a No Action SWMU under CERCLA.

SEAD-41 is the boiler blowdown leach pit that is located in the vicinity of Building 718. The results of the limited sampling at this SWMU detected TPH in the soils. This SWMU was

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classified as a Low Priority AOC, and remedial action has been recommended by Engineering Science, Inc.

SEAD-61 is a UST (SRN 38) that is used to store waste oil before burning in the adjacent boiler plant. It has a 10,000-gallon capacity and was installed in 1989. No releases from this UST have been documented. This SWMU was previously classified as a No Action SWMU under CERCLA.

Two other fuel oil USTs are associated with Building 718. SRN 194 has a 40,000-gallon capacity and has been in place since 1956. SRN 195 has a 20,000-gallon capacity and has been in place since 1978. No releases have been documented from either of these USTs.

In 1994, 3 ounces of an unspecified hazardous material were released inside of Building 718. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9313511).

This parcel is designated as Category 6.

BRAC Parcel Number and Label 102(6)PS/PR(P) CERFA Map Location 3,13

This parcel is associated with Buildings 716 and 717. Specifically, this is a 40,600-gallon fuel oil AST (SRN 188) that has been in service since 1956 and an associated fueling area. There has been no record of leaking or spilling of petroleum product at this location. However, based on a 1995 EBS visual inspection, the area directly around the fueling station exhibited staining. This particular tank has been out-of-service and empty since 1989. The berm drain has been kept open since that time. A visual inspection conducted by the Seneca Army Depot Activity Environmental Department staff on April 24, 1996 revealed only small puddles of water inside of the berm. This parcel is designated as Category 6.

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BRAC Parcel Number and Label 103(6)HR CERFA Map Location 5,13

This parcel is associated with a miscellaneous components burial ground west of storage igloos A0101 and A0102. This area includes one of the previously recognized SWMUs (SEAD-63). Records revealed that miscellaneous components (i.e., classified parts) were buried in this area and have not yet been excavated. An ESI conducted by Engineering Science, Inc. at this SWMU revealed numerous burial pits that were shown to contain miscellaneous military components. The ESI results also indicated that the soils have been significantly impacted by PAHs, cadmium, and radionuclides, and that gross alpha and gross beta radiation are impacting surface water and groundwater quality. This SWMU has been classified as a Low Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

BRAC Parcel Number and Label 104(6)PR/HS/HR CERFA Map Location 5,9

This parcel consists of an Open Burning Ground (SEAD-23), an Open Detonation Ground (SEAD-45), an explosive ordnance disposal area (SEAD-57), and a filled area at Building T-2110 (SEAD-70). The Open Burning Ground was used from the late 1960s to 1986 or 1987. Wastes burned here included explosives, contaminated trash, fuses containing lead, and projectiles containing TNT, Comp B, and Amatol. This SWMU was previously classified as a High Priority AOC and is currently an Active RIFS.

The Open Detonation Ground was in use from 1941 to 1994. Large, obsolete, and unserviceable ammunition and components were destroyed here by detonation. An ESI conducted at this locality by Engineering Science, Inc. indicates that impacts to the surface soils and sediment from the release of heavy metals and nitroaromatic compounds, and to a lesser extent by SVOCs, have occurred at this site. Other analyses completed during the ESI indicated that various metals have impacted the groundwater at this site. This SWMU has been classified as a High Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

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In 1994, 530 pounds of an unknown substance were reportedly spilled at the Open Burning Grounds. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9400993). In 1993, 80 gallons of diesel fuel were reportedly spilled at the Open Detonation Grounds. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9213247). In 1994, a fuel oil tank at the Open Detonation Grounds was reported as leaking; 100 gallons of fuel oil were released. All necessary remedial actions were taken, and the case is closed (NYSDEC Identification Number 9400104).

In 1995, 100 gallons of diesel fuel were released at Building 2134 because of a mechanical failure. The spill was cleaned up, and the case is closed (NYSDEC Identification Number 9413197).

The Open Burning/Open Detonation Grounds are currently RCRA facilities operating on interim status. Proper closure of these facilities will be required as part of the RCRA permit.

The explosive ordnance disposal area was used from 1941 to 1994. In the past, the area was used for open detonation, and it may have been used for the disposal of explosives. An ESI conducted at this SWMU by Engineering Science, Inc. indicated that impacts to the soils and groundwater from heavy metals have occurred at this site. This SWMU was classified as a Moderate Priority AOC, and an RI/FS has been recommended by Engineering Science, Inc.

The filled area east of Building T-2110 has previously been used to dispose of construction debris. The results of an ESI conducted at this SWMU by Engineering Science, Inc. indicated that the sediment in the wetland surrounding SEAD-70 and the soils that compose the landfill material have been impacted by moderate releases of PAHs (in the sediment) and arsenic (in the soil). This SWMU was classified as a Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc.

The area along both sides of the East-West Baseline Road and west of the North-South Baseline Road was used for live fire training activities. This training involved the demolition of vehicles

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and resulted in the release of significant quantities of petroleum products. This area is also likely to be contaminated by explosive compounds and metals.

Due to the inability to define the extent of activities associated with these areas, they were combined into a single parcel. This parcel is designated as Category 6.

BRAC Parcel Number and Label 105(6)HS/HR(P) CERFA Map Location 15,13

This parcel is associated with an open ore storage pile. Records indicate that the ore stored at this location is aluminum oxide, which is considered a hazardous material. USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. At a minimum, remediation will be required that specifically includes removal of the ore. This parcel is designated as Category 6.

BRAC Parcel Number and Label 106(6)HR CERFA Map Location 17,11

This parcel is associated with a debris area east of Booster Station 2131 and a possible DDT disposal area. This area corresponds with one of the previously identified SWMUs (SEAD-58). An ESI conducted at this site by Engineering Science, Inc. indicates that the soils, groundwater, and surface water have not been impacted by any of the constituents for which analyses were conducted. The sediment in the drainage swales in the area is the only medium that has been impacted by moderate releases of PAHs. This SWMU was classified as a Moderately Low Priority AOC, and a mini-risk assessment has been recommended by Engineering Science, Inc. This parcel is designated as Category 6.

5.1.7 Category 7 Parcels

Of the 10,634 acres that comprise Seneca Army Depot Activity BRAC property, 11 parcels, approximately 12 acres, are designated as Category 7. The Category 7 parcels are identified on Figure 5-1 and are summarized in the following sections.

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BRAC Parcel Number and Label 107(7)

CERFA Map Location 30,10

This parcel is associated with a vented connex near Building 2311 at the Airfield. This connex was observed during the 1995 EBS visual inspection. The contents of this connex are unknown and, therefore, an accurate category designation could not be determined. This parcel is designated as Category 7.

BRAC Parcel Number and Label 108(7)HS(P)/HR(P)

CERFA Map Location 22,22

This parcel is associated with the reported former pest control shop in Building 335. This site is one of the previously recognized SWMUs (SEAD-68). No documented or visual evidence of a release has been discovered. However, NYSDEC has classified this area as an AOC and the Seneca Army Depot Activity agrees. This SWMU has been classified as a Low Priority AOC, and an RI/FS Scoping Plan is being developed. This parcel is designated as Category 7.

BRAC Parcel Number and Label 109(7)

CERFA Map Location 17,20

This parcel consists of earthen mounds that may be related to a small arms range that was reported in this area. It could not be determined if these mounds were in fact the location of a small arms range that was reported in an interview during the 1995 EBS. Therefore, an accurate category designation could not be determined. This parcel is designated as Category 7.

BRAC Parcel Number and Label 110(7)

CERFA Map Location 11,21

This parcel is associated with a suspect mound in the Duck Ponds Area that was observed during the 1995 EBS. The contents of this mound could not be determined; therefore, an accurate category designation could not be determined. This parcel is designated as Category 7.

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BRAC Parcel Number and Label 111(7)

CERFA Map Location 3;17

This parcel is associated with a suspect mound in the Duck Ponds Area that was observed during the 1995 EBS. The contents of this mound could not be determined; therefore, an accurate category designation could not be determined. This parcel is designated as Category 7.

BRAC Parcel Number and Label 112(7)

CERFA Map Location 2,17

This parcel is associated with a suspect mound in the Duck Ponds Area that was observed during the 1995 EBS. The contents of this mound could not be determined; therefore, an accurate category designation could not be determined. This parcel is designated as Category 7.

BRAC Parcel Number and Label 113(7)

CERFA Map Location 2,11

This parcel is associated with open land north of Building 715. A visual inspection of this area during the 1995 EBS revealed several suspect mounding areas and a rusty drum protruding from a mound of soil. No evidence of soil staining or groundwater contamination could be determined from the visual inspection. During the 1995 EBS, interviewees were asked if they had any knowledge of this area, but no one had any information. This parcel is designated as Category 7.

BRAC Parcel Number and Label 137(7)

CERFA Map Location 19,22

This parcel is associated with an area where it has been rumored that coal ash was disposed. Although corroboration of this activity was not found, the U.S. Army has agreed to conduct limited sampling in this area. This parcel has been designated as Category 7.

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BRAC Parcel Number and Label 138(7)

CERFA Map Location 19,22

This parcel is associated with an area that was used for outdoor coal storage. This activity and location have been confirmed, and the U.S. Army has agreed to conduct limited sampling in this area. This parcel has been designated as Category 7.

BRAC Parcel Number and Label 139(7)

CERFA Map Location 2,14

This parcel is associated with an area where it has been rumored that empty DDT cans were disposed. Although corroboration of this activity was not found, the U.S. Army has agreed to conduct a geophysical study in this area and, if warranted, limited sampling. This parcel has been designated as Category 7.

BRAC Parcel Number and Label 140(7)

CERFA Map Location 2,12

This parcel is associated with a hill located north of Post 3 it has been rumored that drains were disposed. Although corroboration of this activity was not found, the U.S. Army has agreed to conduct a geophysical study in this area and, if warranted by the results of the geophysical study, limited sampling. This parcel has been designated as Category 7.

5.1.8 Qualified Parcels

In determining the qualified parcels, Woodward-Clyde observed the following guidelines:

If a complete asbestos survey/reinspection has not been conducted, then buildings
constructed prior to 1985 were assumed to contain ACM. An "A(P)" for the
possible presence of asbestos was used to qualify the parcel. Where buildings had
been surveyed, and ACM was identified, then these buildings were designated
with "A."

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- If a complete LBP survey has not been conducted, then buildings and structures
 constructed prior to 1978 were assumed to contain LBP. An "L(P)" for the
 possible presence of LBP was used to qualify the parcel. Where buildings had
 been surveyed, and LBP was identified as being present, then these buildings were
 designated "L."
- A distinction is made between the presence of PCBs within equipment, such as transformers, that have not leaked and PCBs in soil from leaking equipment. PCBs in soil from leaking equipment is considered a CERCLA issue, while non-leaking, out-of-service equipment with greater than 50 ppm PCBs qualified the parcel with the designation "P."
- Buildings with radon levels of 4.0 pCi/L or greater were designated "R," while
 those with radon less than 4.0 pCi/L were below mitigation levels and received no
 designation. Buildings for which there has been no radon survey remain
 unqualified.
- Buildings possibly containing UXO stored for use or disposal and areas containing
 possible surface or buried UXO based on previous testing, dismantling, or
 deactivation of UXO were designated "X(P)." Buildings and areas where UXO was
 stored or disposed of were designated "X." Also, locations of former firing ranges
 were UXO-qualified and designated "X."
- Buildings and areas where radioactive materials were stored were designated "RD."

There are 917 parcels, approximately 1,804.58 acres, that are identified as qualified parcels as described in Table 5-1b. On the CERFA map, Figure 5-1, qualified buildings are keyed by building numbers, and areas of land that are qualified are shown with a unique qualified parcel label. Tables 5-3 and 5-4 (following Section Five) elaborate upon potential UXO and radionuclide hazards identified at the Seneca Army Depot Activity. In addition to buildings, several areas of open land were qualified. These are described in the following sections.

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BRAC Parcel Number and Label 114(2)Q-X

CERFA Map Location 30,11

This parcel is associated with a firing range located in the area to the east of Building 2302 at the Airfield. This area was identified in a visual inspection and interview during the 1995 EBS.

BRAC Parcel Number and Label 115Q-X

CERFA Map Location 29,11

This parcel is associated with a former trap/skeet range located to the east of Building 2301 at the Airfield. This area was identified in a visual inspection and interview during the 1995 EBS.

BRAC Parcel Number and Label 116Q-X

CERFA Map Location 32,16

This parcel corresponds with BRAC Parcel 57(6)PS/PR/HR. Two non-CERCLA issues pertain to this parcel. First, at the eastern edge of the parcel was the former Munitions Washout Plant. Records indicate that explosive compounds were leached into the soils outside of the plant. Second, an interview conducted during the 1995 EBS site inspection revealed that munitions may have been buried in the northeast portion of this parcel.

BRAC Parcel Number and Label 117Q-X

CERFA Map Location 30,18

This parcel is associated with an area that is suspected to be an ammunition burial/disposal area. Interviews conducted during the 1995 EBS identified that burial of ammunition took place in this general location.

BRAC Parcel Number and Label 1180-RD

CERFA Map Location 29,19

This parcel corresponds with BRAC Parcel 49(5)HS/HR. It consists of a series of 11 storage igloos and the surrounding area. These igloos were used to store pitchblende ore.

SECTIONFIVE

ENVIRONMENTAL CONDITION OF THE PROPERTY ABEA

BRAC Parcel Number and Label 119Q-X

CERFA Map Location 32,20

This parcel is believed to be the location of a small arms range. Interviews during the 1995 EBS indicated that this area had been used as a small arms range. A visual inspection of the area revealed a 250-foot long accurate berm with a dirt track road leading to it.

BRAC Parcel Number and Label 120O-X

CERFA Map Location 32,23

This parcel corresponds with BRAC Parcel 60(6)HR. This area was a material proof and surveillance test area located west of Building 616.

BRAC Parcel Number and Label 1210-X

CERFA Map Location 30,22

This parcel corresponds with BRAC Parcel 61(6)HR. This area was a material proof and surveillance test area on Brady Road.

BRAC Parcel Number and Label 122O-X

CERFA Map Location 11,21

This parcel is associated with a small arms range that was used for testing firing tracers and 3.5-inch rockets. This area corresponds with one of the previously identified SWMUs (SEAD-46). This SWMU was classified as a Low Priority AOC, and a RI/FS Scoping Plan is being developed by Engineering Science, Inc.

BRAC Parcel Number and Label 1230-RD

CERFA Map Location 4,16

This parcel corresponds with BRAC Parcel 98(6)PS/HS/HR. This area was used as a part of the special weapons mission that was formerly at the depot. Although the nature of this mission is classified, it is known that several radioisotopes were stored in buildings within this area.

SECTIONFIVE

ENVIRONMENTAL CONDITION OF THE PROPERTY AREA

BRAC Parcel Number and Label 124Q-RD

CERFA Map Location 3,17

This parcel corresponds with BRAC Parcel 53(5)HR. This area was used for the burial of radioactive materials.

BRAC Parcel Number and Label 125Q-X

CERFA Map Location 2,13

This parcel is associated with Building 744. Building 744 was a physical activities center or health club facility. Interviews conducted during the 1995 EBS revealed that a shooting range existed in the basement of the facility. These interviews also reported that the shooting range was dismantled, but no records could be found documenting the cleaning process.

BRAC Parcel Number and Label 126Q-RD

CERFA Map Location 5,13

This parcel corresponds with BRAC Parcel 103(6)HR. This area was used for the burial of miscellaneous classified components.

BRAC Parcel Number and Label 1270-X

CERFA Map Location 5,8

This parcel corresponds with BRAC Parcel 104(6)PR/HS/HR. This area includes the Open Burning/Open Detonation Grounds and the live fire training area along East-West Baseline Road.

BRAC Parcel Number and Label 128Q-X

CERFA Map Location 18,11

This parcel corresponds with BRAC Parcel 55(6)PR(P)/HR. This area is the abandoned powder burning pit. Black powder, M10 and M6 solid propellants, and probably explosive-contaminated trash were disposed of in this area.

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Table 5-1a BRAC PARCEL DESCRIPTIONS SENECA ARMY DEPOT ACTIVITY, NEW YORK

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ^b	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE [©]	REMEDIATION/ MITIGATION
1(1)	18,6	189.10	Lake Housing Area	I	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
2(1)	26,10	494.71	Airsield Arca	1	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
3(1)	16,15	7,869.97	Depot Wide	1	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
4(1)	19,24	1.16	Circa 1 acre in Elliot Acres	1	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
5(1)PS/HS	17,2	61.88	Lake Housing Area	1	Building 2485 - fuel oil storage	21	None required
6(2)PS/PR	28,10	0.25	Airfield Area	2	Building 2310 - JP8 UST reported leaking in 1988	21, LUST list	Required actions have been taken
7(1)PS	28,10	0.25	Airfield Area	1	Building 2306 - fuel oil UST	21	None required
8(2)PS/PR	28,10	0.25	Airfield Area	2	Building 2305 spills - fuel oil UST reported leaking in 1989	21, Spill list	Required actions have been taken
9(1)HS(P)	30,23	1.68	Main Depot Area	1	Acid storage	Visual Inspection, Interview	None required
10(1)PS	28,26	0.25	LORAN-C Area	1	Fuel oil storage	21	None required
11(1)HS	24,22	2.02	Warehouse Area	1	Building 327 - pesticide, soda ash, antifreeze	Interview	None required
12(1)HS	24,22	2.02	Warehouse Area	1	Building 326 - STB and chlorine impregnate storage	Interview	None required
13(3)HS/HR	23,22	2.02	Warehouse Area	3	Building 330 - pesticide, soda ash, antifreeze storage; spill reported in 1993	list	Required actions have been taken
14(3)HS/HR	22,22	2.02	Warehouse Area	3	Building 331 - Pesticide, soda ash, antifreeze storage; spill reported in 1992	Interview, Spillist	ll Required actions have been taken

Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ^b	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE [®]	REMEDIATION/ MITIGATION
5(1)HS	22,22	2.02	Warehouse Area	1	Building 324 - columbite ore storage	1	None required
6(1)HS	22,23	2.02	Warehouse Area	1	Building 343 - pesticide, soda ash, antifreeze	Interview	None required
17(3)HS/HR	22,22	2.02	Warehouse Area	3	Building 323 - pesticide, soda ash, antifreeze; spill reported in 1992	Interview, Spill list	Required actions have been taken
18(1)HS	21,22	0.67	Warehouse Area	1	Building 333 - STB, DS-2, solvents	Interview	None required
19(3)HS/HR	21,22	0.06	Warehouse Area	3	Building 307 (SEAD-1) - hazardous waste storage; spill reported in 1991	1, Spill list	Required actions have been taken
20(1)PS/HS	21,21	6.87	IPE Area	1	Buildings 316, 317, 318, and 372 - IPE - solvents, petroleum products	Interview	None required
21(1)PS	20,23	26.29	Elliot Acres Housing Area	1	Fuel oil storage	0.25-acre tank spacing, 21	None required
22(1)PS	19,23	0.25	South Depot Area	1	Building 101 - fuel oil storage	21	None required
23(1)PS	18,23	0.25	South Depot Area	1	Building 103 - fuel oil storage	21	None required
24(2)PS/PR/HS	19,23	0.47	South Depot Area	2	Building 118 (SEAD-30) - auto shop, waste oil UST, Building 120 - gas station; spill reported in 1992	1, Spill list	Required actions have been taken
25(1)PS/HS	19,23	0.41	South Depot Area	1	Building 117, Heavy Equipment Shop - waste oil storage UST (SEAD-31)	1	None required
26(1)HS	19,22	0.16	South Depot Area	1	Building 125 - former paint shop	Interview, 21	None required
27(1)PS/HS	18,23	0.25	South Depot Area	1	Building 106 - health clinic, fuel oil storage	Interview, 21	None required
28(1)PS	18,22	0.25	South Depot Area	1	Building 114 - USTs	21	None required
29(2)PS/PR	19,21	0.25	South Depot Area	2	Building 129 - fuel oil storage; spill reported in 1994	21, Spill list	None required
30(1)PS	18,21	0.25	South Depot Area	1	Building 113 - fuel oil storage	21, Spill list	None required

Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y	APPROXIMATE SIZE (ACRES) ^B	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO:)	EBS SOURCE OF EVIDENCE	REMEDIATION/ MITIGATION
I(1)PS/HS	20,21	0.25	Main Depot Arca	1	Building 312 (General Supply) - hydrofluosilic acid, paint, antifreeze, turpentine, diesel oil	Interview	None required
12(1)PS	2,15	0.25	North Depot Area	I	Building 800 - fuel oil storage	21	None required
33(1)PS	2,15	0.25	North Depot Area	1	Building 729 - fuel oil storage	21	None required
34(1)PS	3,14	0.25	North Depot Area	1	Buildings 719, 721, and 720 - gas station, vehicle maintenance	Visual Inspection 2:	None required
35(1)PS	2,14	0.25	North Depot Area	1	Building 733 - fuel oil storage	21	None required
36(1)PS	3,14	0.25	North Depot Area	1	Building 746 - fuel oil storage	21	None required
37(2)PS/PR	3,12	0.25	North Depot Area	2	Building 710 - fuel oil storage reported leaking in 1989	21, LUST list	Required actions have been taken
38(1)PS	2,12	0.71	North Depot Area	1	Building 742 - gas station	Visual Inspection	None required
39(1)PS	2,12	0.25	North Depot Area	1	Building 714 - fuel oil storage	21	None required
40(1)PS	2,12	0.25	North Depot Area	1	Building 740 - fuel oil storage	21	None required
41(1)HS	14,9	0.25	Main Depot Area	1	Acid storage (SEAD-65A)	1	None required
42(1)HS	14,9	0.25	Main Depot Area	. 1	Acid storage (SEAD-65B)	1	None required
43(1)HS	14,9	0.25	Main Depot Area	1	Acid storage (SEAD-65C)	1	None required
44(3)PR/HR	29,26	0.25	LORAN-C Area	3	Halon and diesel spills	Interview, Spil	Required actions have been taken
45(3)HS/HR	27,25	4.65	Warehouse Area	3	Building 356 (SEAD-49) - columbite ore storage, DS-2 storage/spills	1,20	None required
46(3)HR	18,21	0.96	South Admin Area	3	Wood burn ash, pressure-treated wood (SEAD-10)	ì	None required
47(2)PS/PR/HS	2,14	1.46	North Depot Area	2	Building 732 (SEAD-29) - auto hobby shop, waste oil storage	1	None required

Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ⁵	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE ^C	REMEDIATION/ MITIGATION
29(3)HR	19,2	0.25	Lake Housing Area	3	building	Spill list	Required actions have been taken
30(3)PR/HR/(P)	24,23	2.02	Warehouse Area	3	Building 349 - spills reported in 1986, 1989, and 1991	•	Required actions have been taken
131(3)PS/PR/HS/HR	27,25	4.65	Warehouse Area	3	Building 357 - spills reported in 1990, 1991, and 1992; leaking tank reported in 1987	Spill list, LUST list	Required actions have been taken
132(3)PR/HR(P)	18,17	0.25	Main Depot Area	. 3	Building C-509 - spill reported in 1992	Spill list	Required actions have been taken
133(2)PS/PR	19,2	0.25	Lake Housing Area	2	Building 2452 - fuel oil AST reported leaking in 1991	LUST list	Required actions have been taken
134(2)PS/PR	2,14	0.25	North Depot Area	2	Building 752 - fuel oil AST reported leaking in 1992	LUST list	Required actions have been taken
135(2)PS/PR	19,23	0.25	Elliot Acres Housing Area	2	Building 212 - fuel oil AST reported leaking in 1990	LUST list	Required actions have been taken
136(2)PR	2,11	0.25	North Depot Area	2	Building 715 - fuel oil release from Building 718 contained in secondary sewage treatment facility	Spill list	Required actions have been taken
48(5)HR	22,12	112.67	Main Depot Area	5	Non-combustible landfill (SEAD-8), incincrator cooling water pond (SEAD-3), ash landfill (SEAD-6), refuse burning pits (SEAD-14), solid waste incinerator (SEAD-15), disposal area west of Building 2203 (SEAD-64D)	1, 19	Surface soils remediated
49(5)HS/HR	29,19	72.79	Main Depot Area	• 5	Pitchblende storage and release (SEAD-48) 1	Pending
50(5)PS/PR/HR(P)	21,22	0.06	IPE Area	5	Boiler blowdown leach pit (SEAD-40), waste oil storage (SEAD-34), boilers at Building 319 (SEAD-37), UST reported leaking in 1994, spills reported in 1994	1, LUST list, Spill list	Pending
51(5)PS/PR/HS/1IR(P	21,21	0.25	IPE Area	5	Building 360 - waste oil storage (SEAD-28), spill, steam Jenny (SEAD-27).	1	Pending
52(2)PR	19,23	5.49	Main Depot Area	. 2	Spill from Building 138, partially clean	Interview, LUST list	Pending

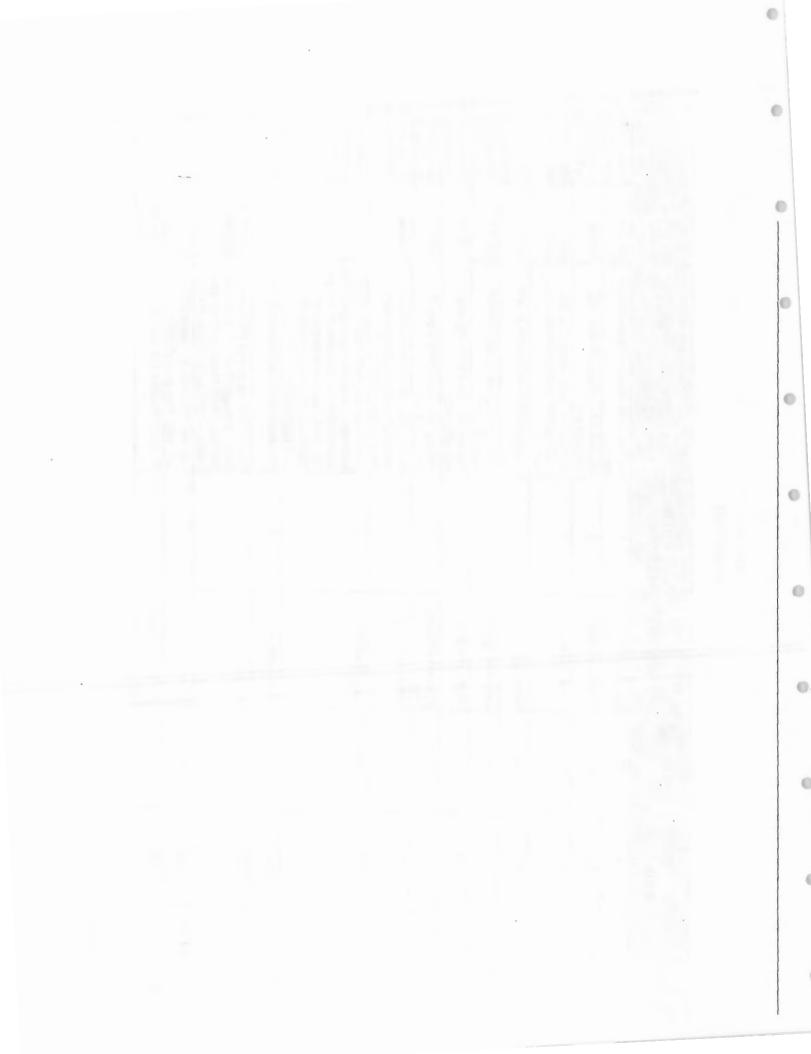


Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ^b	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE ⁶	REMEDIATION/ MITIGATION
3(5)HR	3,17	15.79	Special Weapons Area	5	Radioactive waste burial (SEAD-12A)	1, 18	Pending
4(6)HR(P)	16,2	0.25	Lake Housing Area	6	release on east side of building	Visual Inspection, Interview	None to date
55(6)PR(P)/HR	18,11	1.88	Main Depot Area	6	Abandoned powder burning area (SEAD-24)	1, 16	None to date
56(2)PR	29,12	7.43	Airfield Arca	2	Fuel spills west of Building 2312	Interview, Spill list	None to date
57(6)PS/PR/HR	32,17	178.84	Main Depot Area	. 6	Fuel oil storage, old construction debris landfill (SEAD-11), munitions washout plant (SEAD-4), boiler pit blowdown leach pit at Building 2079 (SEAD-38), leaking tank reported at Building 2079 in 1993, spill reported at Building 2073 in 1992, dumping	I, 16, 17, LUST list, Spill list, Interviews, Visual Inspection	None to date
58(6)HR	31,19	8.60	Main Depot Area	6	Garbage disposal area (SEAD-64B)	1, 19	None to date
59(6)PS/PR/HR	31,22	7.57	Main Depot Area	6	Buildings 608 and 612 (SEAD-52) - ammunition breakdown area, oil discharge adjacent to Building 609 (SEAD-60), fuel oil storage	1, 19	None to date
60(6)HR	32,23	3.72	Main Depot Area	6	Material proof and surveillance test area west of Building 616 (SEAD-44A)	1, 18	None to date
61(6)HR	30,22	1.62	Main Depot Area	6	Material proof and surveillance test area or Brady Road (SEAD-44B)	1, 18	None to date
62(6)HR(P)	31,23	1.82	Main Depot Area	6	Nicotine sulfate disposal area near Buildings 606 and 612 (SEAD-62)	1, 18	None to date
63(6)PS/HS/HR	30,25	10.00	Main Depot Area	6	Building 606 - Old Missile Propellant Test Laboratory (SEAD-43), disposal area (SEAD-69), herbicide and pesticide storag (SEAD-56), ÚST at Building 606	е	None to date
64(6)HR	25,22	1.77	Main Depot Area	6	Debris landfill with raw asbestos (SEAD-64A)	1, 19	None to date

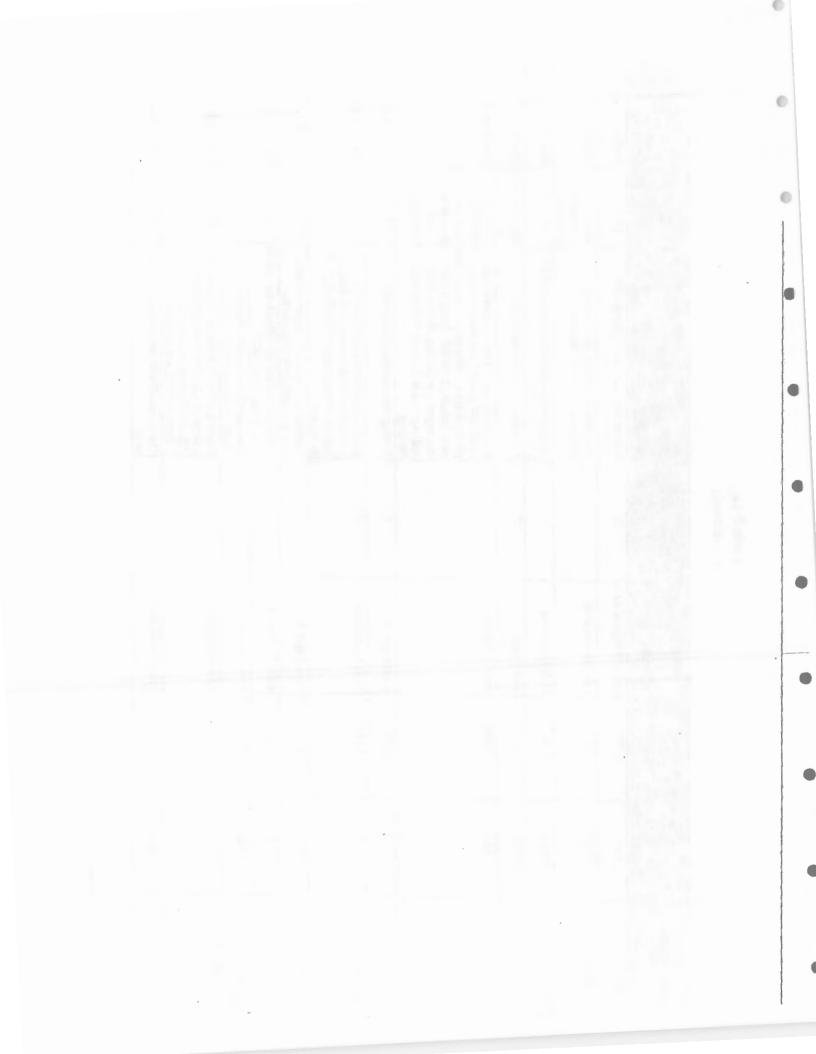


Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X;Y COORDINATES)	APPROXIMATE SIZE (AGRES) ⁵	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE*	REMEDIATION/ MITIGATION
5(6)HS/HR(P)	25,22	1.39	Warehouse Area	6		Inspection	None to date
6(6)HR	26,22	9.26	Warehouse Area	6	Fire training pit (SEAD-26)	1, 16	None to date
7(6)HS/HR(P)	26,22	0.89	Warehouse Area	6	Open chromite ore pile	Visual Inspection	None to date
8(6)HS/HR(P)	25,22	0.65	Warehouse Area	6	Open aluminum oxide ore pile	Visual • Inspection	None to date
9(6)HS/HR(P)	26,24	0.55	Warehouse Area	6	Open antimony ore pile	Visual Inspection	None to date
0(6)HS/HR(P)	26,25	1.55	Warehouse Area	6	Open ferro chrome ore pile	Visual Inspection	None to date
71(6)HS/HR(P)	26,25	0.81	Warehouse Area	6	Open antimony ore pile	Visual Inspection	None to date
72(6)HS/HR	25,24	19.94	Tank Farm	6	Storage tanks for antimony, rutile, asbestos and silicon carbide (SEAD-50, SEAD-54)	1, 18	None to date
73(6)HS/HR(P)	24,23	1.56	Warehouse Area	6	Open chromite ore pile	Visual Inspection	None to date
74(6)HS/HR(P)	24,22	0.74	Warehouse Area	6	Open ferro manganese ore pile	Visual Inspection	None to date
75(6)HS/HR(P)	23,23	1.94	Warehouse Area	6	Open chromite ore pile	Visual Inspection	None to date
76(6)HS/HR(P)	22,23	0.75	Warehouse Area	6	Open ferro manganese ore pile	Visual Inspection	None to date
77(6)PR/HR	23,22	0.49	Warehouse Area	6	Spill of PCB oil north of Building 325	Interview	None to date
78(6)HS/HR	21,21	3.08	Main Depot Area	6	Interviews revealed dumping of hazardous materials at DRMO yard	Interview	None to date
79(6)HR	20,22	2.82	Main Depot Area	6	Fire training pad (SEAD-25)	1, 16	None to date
80(6)PS/HR	20,20	1.93	Main Depot Area	6	Building 367 (SEAD-17) - deactivation furnace, AST	1, 16	None to date
81(6)HS/HR	19,21	0.43	Main Depot Area	6 ·	Sewage sludge waste piles (SEAD-5)	1, 18	None to date

Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ^b	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE ^S	REMEDIATION/ MITIGATION
2(6)PS/PR/HS/HR	19,21	4.47	Main Depot Area	6		1, 16, Visual Inspection, Spill list	None to date
3(6)HS/HR(P)	19,19	1.41	Main Depot Area	. 6	Open chromite ore pile	Visual Inspection	None to date
34(6)PS/PR/HR(P)	18,19	1.16	Main Depot Area	6	Buildings 308, 306 - Boiler House, Inspector's Workshop, staining	Visual Inspection	None to date
35(6)PR/HR	19,21	0.69	USE Area	6	Fill area with unknown contents west of Building 135 (SEAD-59)	1, 18	None to date
86(6)PR/HS/HR	19,22	0.11	South Depot Area	6	Building 135 - vehicle storage building with stained soil	Visual Inspection	None to date
87(6)PS/PR/HR(P)	19,23	0.25	South Depot Area	6	Building 121 (SEAD-36) - waste oil tank (SEAD-33), boiler plant blowdown leach pit (SEAD-39), boiler plant	1	None to date
88(2)PS/PR	19,22	0.14	South Depot Area	2	UST at Building 127 with stained soil	Visual Inspection	None to date
89(6)HR	18,22	1.16	South Depot Area	6	Alleged paint/solvent disposal area (SEAD-71)	1, 19	None to date
90(6)PR(P)/HR	17,22	2.07	Duck Ponds Area	6	Old scrap wood (SEAD-9)	1, 18	None to date
91(6)HS/HR(P)	17,19	0.98	Main Depot Area	6	Open chromite ore pile	Visual Inspection	None to date
92(6)HS/HR(P)	16,19	4.62	Main Depot Area	6	Pesticide storage - Buildings 5 and 6 (SEAD-66)	1	None to date
93(6)HS/HR(P)	16,19	0.91	Main Depot Area	6	Open aluminum oxide ore pile	Visual Inspection	None to date
94(6)HR	16,20	5.12	Duck Ponds Area	6	Sewage Treatment Plant No. 4 (SEAD-20) dump site to east (SEAD-67)	1, 19	None to date
95(6)HS/HR(P)	16,19	0.49	Main Depot Area	6	Open ferro manganese ore pile	Visual . Inspection	None to date
96(6)HR(P)	11,19	10.07	Duck Ponds Area	6	IRFNA disposal site (SEAD-13)	1, 17	None to date
97(6)HR(P)	11,20	8.81	Duck Ponds Area	6	IRFNA disposal site (SEAD-13)	1, 17	None to date

Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	**************************************	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO:)	EBS SOURCE OF EVIDENCE	REMEDIATION/ MITIGATION
8(6)PS/PR/HS/HR	4,17	334.79	Special Weapons Area		petroleum release, tritium release, unknown burial activities Radioactive waste burial north of Buildings 804 and 805 (SEAD-12B), mixed waste storage at Building 803 (SEAD-72), incinerator and Building 810 (SEAD-19), USTs at Buildings 802 and 805 Leaking tank at Building 806 reported in 1989; leaking tank at Building 807 reported in 1991 Unknown contents/unknown storage at Building 810 Unknown activities/storage at Building 819, igloos A0101 and A0102	Inspection, Interview, 1, 18, Spill list, LUST list	None to date
99(2)PS/PR	3,15	0.25	Special Weapons Area	. 2	Former MP gas station (removed tank)	Visual Inspection, Interview	None to date
100(6)PS/PR/HS/HR	3,14	0.85	North Depot Area	7	Building 747 - unknown contents/unknown storage; spill reported in 1992	Interview, Spill	None to date
101(6)PS/PR/HS/HR	3,13	0.08	North Depot Area	. 6	Building 718 - waste oil tank (SEAD-32, SEAD-61), waste oil-burning boilers (SEAD-35), boiler blowdown leach pit (SEAD-41); spill reported in Building 718 in 1994	1, Spill list	None to date
102(2)PS/PR(P)	3,13	1.52	North Depot Area	2	Buildings 716-717 - fuel oil filling and storage station, auto hobby shop, stained soil	Visual Inspection, Interview	None to date
103(6)HR	5,13	3.64	Special Weapons Area	6	Miscellaneous components burial area (SEAD-63)	1, 19	None to date

Table 5-1a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)		GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE ^S	000000000000000000000000000000000000000
104(6)PR/HS/HR	5,9	1055.65	Main Depot Area	6	(SEAD-45), explosive ordnance disposal		None to date
105(6)HS/HR(P)	15,13	1.95	Main Depot Area	6	Aluminum oxide ore pile		None to date
106(6)HR	17,11	11.36	Main Depot Area	6	Debris area near Booster Station 2131 (SEAD-58), possible DDT disposal	1, 18	None to date
107(7)	30,10	0.25	Airfield Area	7	Connex - unknown contents	Visual Inspection	None to date
108(7)HS(P)/HR(P)	22,22	0.09	Warehouse Area	7	Building S-335 (SEAD-68) - old pest control shop	1	None to date
109(7)	17,20	4.95	Duck Ponds Area	7	Mounds possibly related to small arms range north of Building 309	Visual Inspection, Interview	None to date
110(7)	11,21	1.10	Duck Ponds Area	7	Mound of unknown contents	Visual Inspection	None to date
111(7)	3,17	0.25	Duck Ponds Area	7	Mound of unknown contents	Visual Inspection	None to date

Table 5-1a (Continued)

		APPROXIMATE SIZE (ACRES) ⁵	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER		EBS SOURCE OF EVIDENCE	REMEDIATION/ MITIGATION
12(7)	2,17	0.25	Duck Ponds Area	7	Mound of unknown contents	Visual	None to date
				•		Inspection	
113(7)	2,11	4.96	North Depot Area	7	Mounds and a rusty drum	Visual	None to date
						Inspection	
137(7)	19,22 ·	0.25	South Depot Area	7	Rumored coal ash disposal area	Rumors list	None to date
138(7)	19,22	0.25	South Depot Area	7	Rumored coal storage area	Rumors list	None to date
139(7)	2,14	0.25	North Depot Area	7	Rumored DDT cans disposal area	Rumors list	None to date
140(7)	2,12	0.25	North Depot Area	7	Rumored drum disposal area	Rumors list	None to date

Notes:

BRAC parcel label definitions are as follows:

Qualified parcel label definitions are as follows:

PS = petroleum storage

PR = petroleum release or disposal IIS = hazardous substance storage

HR = hazardous substance release or disposal

A = asbestos containing material

L = lead-based paint

P = polychlorinated biphenyls

R = radon

X = UXO and/or ordnance fragments

RD = radioauclides

(P) = possible (unverified)

Acreage figures are approximate; they have been calculated using AutoCad Release 12.

^{*} EBS Source of Evidence numbers refer to documents listed in Table 2-1 of this report.

Table 5-1b QUALIFIED PARCEL DESCRIPTIONS SENECA ARMY DEPOT ACTIVITY

QUALIFIED PARCEL	ACCEPTO XIMATE	CHOCKAPHIC	BUILDING
NUMBER AND LABEL!	SIZE (ACRES)	AREA	NUMBER
2-2301Q-L(P)	0.023	Airfield	2301
2-2302Q-L(P)	0.023	Airfield	2302
2-2304Q-L(P)	0.050	Airfield	2304
3-1Q-A(P)/L(P)	0.006	Main Depot	1
3-102Q-L(P)	0.010	South Depot	102
3-104Q-A(P)/L(P)	0.011	South Depot	104
3-110Q-L(P)	0.003	South Depot	110
3-115Q-L(P)/R	0,325	· South Depot	115
3-116Q-L(P)	0.309	South Depot .	116
3-119Q-L(P)	0.074	South Depot	119
3-122Q-A/L(P)	0.283	South Depot	122
3-123Q-L(P)	0.074	South Depot	123
3-124Q-A/L(P)	0.036	South Depot	124
3-125Q-A/L(P)	0.098	South Depot	. 125 .
3-131Q-L(P)	0.055	Main Depot	131
3-137Q-A(P)	0.004	Main Depot	137
3-143Q-L(P)	0.001	Main Depot	143
3-145Q-A(P)/L(P)	0.013	Main Depot	145
3-247Q-A/L(P)	0.001	Main Depot	247
3-301Q-L(P)/P	0.019	Main Depot	301
3-304Q-L(P)	0.019	Main Depot	304
3-309Q-A/L(P)	0.189	Main Depot	309
3-310Q-L(P)	0.019	Main Depot	310
3-313Q-L(P)	0.003	Main Depot	313
3-314Q-L(P)	0.010	Main Depot	314
3-320Q-A(P)/L(P)	0.374	Main Depot	320
3-321Q-L(P)/RD .	0.275	Main Depot	. 321
3-322Q-L(P)	0.006	Main Depot	322
3-325Q-A(P)/L(P)	2,066	Warehouse	325
3-328Q-A(P)/L(P)/X(P)	2.066	Warehouse	328
3-329Q-A(P)/L(P)	2.066	Warehouse	329
3-332Q-A(P)/L(P)	2.066	Warehouse	332
3-334Q-A/L(P)	0.725	Warehouse	334
3-339Q-A(P)/L(P)	2:066	Warehouse	339
3-340Q-A(P)/L(P)	2.066	Warehouse	340
3-341Q-A(P)/L(P)	2.066	Warehouse	341
3-342Q-A(P)/L(P)	2.066	Warehouse	342
3-345Q-A(P)/L(P)	2,066	Warehouse	345
3-346Q-A(P)/L(P)	2.066	Warehouse	346
3-347Q-A(P)/L(P)	2.066	Warehouse	347
3-348Q-A(P)/L(P)	2.066	Warehouse	348
130-349Q-A(P)/L(P)	2,066	Warehouse	349
3-350Q-A(P)/L(P)	2.066	Warehouse	350

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL!	SIZE (ACRES)	AREA	NUMBER
3-353Q-A/L(P)	0.038	Warehouse	353
131-357Q-A(P)/L(P)	4.664	Warehouse	357
3-359Q-A/L(P)	0.003	Main Depot	359
3-360Q-A(P)	0.024	Main Depot	360
3-363Q-A(P)/L(P)	0.002	Main Depot	363
3-366Q-A(P)/L(P)/X(P)	0.022	Main Depot	366
3-373Q-A(P)/L(P)	0.024	Main Depot	373
3-701Q-A/L(P)	0.328	North Depot	701
3-702Q-A/L(P)	0.420	North Depot	702
3-703Q-A	0.931	North Depot	703
3-704Q-A/L(P)	0.714	North Depot	704
3-705Q-A/L(P)	0.184	North Depot	705
3-706Q-L(P)	0.085	North Depot	706
3-707Q-L(P)	0.434	North Depot	707
3-708Q-A/L(P)	0.714	North Depot	708
3-709Q-A(P)/L(P)	0.000	North Depot	709
3-711Q-L(P)	0.002	North Depot	711
136-715Q-A/L(P)	0.110	North Depot	715
3-722Q-L(P)	0.108	North Depot	722
3-723Q-A/L(P)	0.532	North Depot	723
3-724Q-L(P)	0.207	North Depot	724
3-725Q-L(P)	0.004	North Depot	725
3-726Q-L(P)	0.022	North Depot	726
3-727Q-L(P)	0.030	North Depot	727
3-728Q-L(P)	0.004	North Depot	728
3-731Q-L(P)	0.158	North Depot	731
3-743Q-A/L(P)	0.011	North Depot	743
3-749Q-L(P)	0.019	North Depot	749
3-1495Q-L(P)	0.001	Main Depot	1495
8-1593Q-A(P)/L(P)	0.003	Main Depot	1593
3-1594Q-X(P)	0.069	Main Depot	1594
3-2086Q-A(P)/L(P)	0.017	Main Depot	2086
3-2113Q-L(P)	0.004	Main Depot	2113
3-2117Q-A/L(P)/X(P)	0.259	Main Depot	2117
-2118Q-A/L(P)/X(P)	0.259	Main Depot	2118
-2119Q-A/L(P)/X(P)	0.259	Main Depot	2119
-2120Q-A/L(P)/X(P)	0.259	Main Depot	2120
-2121Q-A/L(P)/X(P)	0.259	Main Depot	2121
-2122A/L(P)/X(P)	. 0.259	Main Depot	2122
-2123Q-A/L(P)/X(P)	0.259	Main Depot	2123
-2124Q-A/L(P)/X(P)	0.259	Main Depot	2124
-2126Q-L(P)	0.019	Main Depot	2126
-2129Q-L(P)	0.019	Main Depot	2129
-2132Q-X(P)	0.002	Main Depot	2132

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING		
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER		
3-2133Q-X(P)	0.002	Main Depot	2133		
3-2200Q-L(P)	0.019	Main Depot	2200		
3-2202Q-A(P)/L(P)	0.003	Main Depot	2202		
3-2204Q-L(P)	0.019	Main Depot	2204		
3-2207Q-A/L(P)/X(P)	0.082	Main Depot	2207		
3-705A1Q-A/L(P)	0.088	North Depot	705A		
3-A0201Q-X(P)/RD	0.056	Special Weapons	A0201		
3-A0202Q-X(P)/RD	0.042	Special Weapons	A0202		
3-A0203Q-X(P)/RD	0.056	Special Weapons	A0203		
3-A0204Q-X(P)/RD	0.042	Special Weapons	A0204		
3-A0205Q-X(P)/RD	0.056	Special Weapons	A0205		
3-A0206Q-X(P)/RD	0.042	Special Weapons	A0206		
3-A0207Q-X(P)/RD	0.056	Special Weapons	A0207		
3-A0208Q-X(P)/RD	0.042	Special Weapons	A0208		
3-A0209Q-X(P)/RD	0.056	Special Weapons	A0209		
3-A0210Q-X(P)/RD	0.042	Special Weapons	A0210		
3-A0211Q-X(P)/RD	0.056	Special Weapons	A0211		
3-A0212Q-X(P)/RD	0.042	Special Weapons	A0212		
3-A0213Q-X(P)/RD	0.056	Special Weapons	A0213		
3-A0214Q-X(P)/RD	0.042	Special Weapons	A0214		
3-A0215Q-X(P)/RD	0.056	Special Weapons	A0215		
3-A0216Q-X(P)/RD	0.042	Special Weapons	A0216		
3-A0217Q-X(P)/RD	0.056	Special Weapons	A0217		
3-A0218Q-X(P)/RD	0.042	Special Weapons	A0218		
3-A0301Q-X(P)/RD	0.042	Special Weapons	A0301		
3-A0302Q-X(P)/RD	0.056	Special Weapons	A0302		
3-A0303Q-X(P)/RD	0.042	Special Weapons	·A0303		
3-A0304Q-X(P)/RD	0.056	Special Weapons	A0304		
3-A0305Q-X(P)/RD	0.042	Special Weapons	A0305		
3-A0306Q-X(P)/RD	0.056	Special Weapons	A0306		
3-A0307Q-X(P)/RD	0.042	Special Weapons	A0307		
3-A0308Q-X(P)/RD	0.056	Special Weapons	A0308		
3-A0309Q-X(P)/RD	0.042	Special Weapons	A0309		
3-A0310Q-X(P)/RD	0.056	Special Weapons	A0310		
3-A0311Q-X(P)/RD	0.042	Special Weapons	A0311		
3-A0312Q-X(P)/RD	0.056	Special Weapons	A0312		
3-A0313Q-X(P)/RD	0.042	Special Weapons	A0313		
3-A0314Q-X(P)/RD	0.056	Special Weapons	A0314		
3-A0315Q-X(P)/RD	0.042	Special Weapons	A0315		
3-A0316Q-X(P)/RD	0.056	Special Weapons	A0316		
3-A0317Q-X(P)/RD	0.042	Special Weapons	A0317		
3-A0401Q-X(P)/RD	0.042	Special Weapons	A0401		
3-A0402Q-X(P)/RD	0.042	Special Weapons	A0402		
3-A0403Q-X(P)/RD	0.042	Special Weapons	A0403		

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC BUILDING		
NUMBER AND LABEL*	SIZE (ACRES)	AREA	NUMBER	
3-A0404Q-X(P)/RD	0.042	Special Weapons	A0404	
3-A0405Q-X(P)/RD	0.042	Special Weapons	A0405	
3-A0406Q-X(P)/RD	0.042	Special Weapons	A0406	
3-A0407Q-X(P)/RD	0.042	Special Weapons	A0407	
3-A0408Q-X(P)/RD	0.042	Special Weapons	A0408	
3-A0409Q-X(P)/RD	0.042	Special Weapons	A0409	
3-A0501Q-X(P)/RD	0.042	Special Weapons	A0501	
3-A0502Q-X(P)/RD	0.042	Special Weapons	A0502	
3-A0503Q-X(P)/RD	0.042	Special Weapons	A0503	
3-A0504Q-X(P)/RD	0.042	Special Weapons	A0504	
3-A0505Q-X(P)/RD	0.042	Special Weapons	A0505	
3-A0506Q-X(P)/RD	0.042	Special Weapons	A0506	
3-A0507Q-X(P)/RD	0.042	Special Weapons	A0507	
3-A0508Q-X(P)/RD	0.042	Special Weapons	A0508	
3-A0601Q-X(P)/RD	0.042	Special Weapons	A0601	
3-A0602Q-X(P)/RD	0.042	Special Weapons	A0602	
3-A0603Q-X(P)/RD	0.042	Special Weapons	A0603	
3-A0604Q-X(P)/RD	0.042	Special Weapons	A0604	
3-A0605Q-X(P)/RD	0.042	Special Weapons	A0605	
3-A0606Q-X(P)/RD	0.042	Special Weapons	A0606	
3-A0607Q-X(P)/RD	0.042	Special Weapons	A0607	
3-A0608Q-X(P)/RD	0.042	Special Weapons	A0608	
3-A0609Q-X(P)/RD	0.042	Special Weapons	A0609	
3-A0610Q-X(P)/RD	0.042	Special Weapons	A0610	
3-A0701Q-X(P)/RD	0.042	Main Depot	A0701	
3-A0702Q-X(P)	0.042	Main Depot	A0702	
3-A0703Q-X(P)	0.042	Main Depot	A0703	
3-A0704Q-X(P)	0.042	Main Depot	A0704	
3-A0705Q-X(P)	0.042	Main Depot	A0705	
3-A0706Q-X(P)/RD	0.042	Main Depot	A0706	
3-A0707Q-X(P)/RD	0.042	Main Depot	A0707	
3-A0708Q-X(P)	0.042	Main Depot	A0708	
3-A0709Q-X(P)	0.042	Main Depot	A0709	
3-A0710Q-X(P)	0.042	Main Depot	A0710	
3-A0711Q-X(P)	0.042	Main Depot	A0711	
3-A0801Q-X(P)	0.042	Main Depot	A0801	
3-A0802Q-X(P)	0.042	Main Depot	A0802	
3-A0803Q-X(P)	0.042	Main Depot	A0803	
3-A0804Q-X(P)	0.042	Main Depot	A0804	
3-A0805Q-X(P)	0.042	Main Depot	A0805	
3-A0806Q-X(P)	0.042	Main Depot	A0806	
3-A0807Q-X(P)	0.042	Main Depot	A0807	
3-A0808Q-X(P)	0.042	Main Depot	A0808	
3-A0809Q-X(P)	0.042	Main Depot	A0809	

Table 5-1b (Continued)

QUALIFIED PARCEL NUMBER AND LABEL!	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	BUILDING NUMBER
3-A0810Q-X(P)	0.042	Main Depot	A0810
3-A0811Q-X(P)	0,042	Main Depot	A0811
3-A0901Q-X(P)/RD	0.042	Main Depot	A0901
3-A0902Q-X(P)	0.042	-Main Depot	A0902
3-A0903Q-X(P)	0.042	Main Depot	A0903
3-A0904Q-X(P)	0.042	Main Depot	A0904
3-A0905Q-X(P)/RD	0.042	Main Depot	A0905
3-A0906Q-X(P)	0.042	Main Depot	A0906
3-A0907Q-X(P)	0.042	Main Depot	A0907
3-A0908Q-X(P)	0.042	Main Depot	A0908
3-A0909Q-X(P)	0.042	Main Depot	A0909
3-A0910Q-X(P)	0.042	Main Depot	A0910
3-A1001Q-X(P)	0.042	Main Depot	A1001
3-A1002Q-X(P)	0.042	Main Depot	A1002
3-A1003Q-X(P)	0.042	Main Depot	A1003
3-A1004Q-X(P)	0.042	Main Depot	A1004
3-A1005Q-X(P)	0.042	Main Depot	A1005
3-A1006Q-X(P)	0.042	Main Depot	A1006
3-A1007Q-X(P)	0.042	Main Depot	A1007
3-A1008Q-X(P)	0.042	Main Depot	A1008
3-A1009Q-X(P) .	0.042	Main Depot	A1009
3-A1010Q-X(P)	0.042	Main Depot	A1010
3-A1011Q-X(P)	0.042	Main Depot	A1011
3-A1012Q-X(P)	0.042	Main Depot	A1012
3-A1101Q-X(P)	0.042	Main Depot	A1101
3-A1102Q-X(P)	0.042	Main Depot	A1102
3-A1103Q-X(P)	0.042	Main Depot	A1103
3-A1104Q-X(P)	0.042	Main Depot	A1104
3-A1105Q-X(P)	0.042	Main Depot	A1105
3-A1106Q-X(P)	0.042	Main Depot	A1106
3-A1107Q-X(P)	0.042	Main Depot	A1107
3-A1108Q-X(P)/RD	0.042	Main Depot	A1108
3-A1109Q-X(P)/RD	0.042	Main Depot	A1109
3-A1110Q-X(P)	0.042	Main Depot	A1110
3-A1111Q-X(P)	0.042	Main Depot	A1111
3-B0101Q-X(P)	0.042	Main Depot	B0101
3-B0102Q-X(P)	0.042	Main Depot	B0102
3-B0103Q-X(P)	0.042	Main Depot	B0103
3-B0104Q-X(P)	0.042	Main Depot	B0104
3-B0105Q-X(P)	0.042	Main Depot	B0105
3-B0106Q-X(P)	0.042	Main Depot	B0106
3-B0107Q-X(P)	0.042	Main Depot	B0107
3-B0108Q-X(P)	0.042	Main Depot	B0108
3-B0109Q-X(P)/RD	0.042	Main Depot	B0109

Table 5-1b. (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	and the transmission of the second section of the second section of the second section	AREA	NUMBER
3-B0110Q-X(P) ·	0.042	Main Depot	B0110
3-B0111Q-X(P)	0.042	Main Depot	B0111
3-B0112Q-X(P)	0.042	Main Depot	B0112
3-B0201Q-X(P)	0.042	Main Depot	B0201
3-B0202Q-X(P)	0.042	Main Depot	B0202
3-B0203Q-X(P)	0.042	Main Depot	B0203
3-B0204Q-X(P)	0.042	Main Depot	B0204
3-B0205Q-X(P)	0.042	Main Depot	B0205
3-B0206Q-X(P)	0.042	Main Depot	B0206
3-B0207Q-X(P)	0.042	Main Depot	B0207
3-B0208Q-X(P)	0.042	Main Depot	B0208
3-B0209Q-X(P)	0.042	Main Depot	B0209
3-B0210Q-X(P)	0.042	Main Depot	B0210
3-B0211Q-X(P)	0.042	Main Depot	B0211
3-B0301Q-X(P)	0.042	Main Depot	B0301
3-B0302Q-X(P)	0.042	Main Depot	B0302
3-B0303Q-X(P)	0.042	Main Depot	B0303
3-B0304Q-X(P)	0.042	Main Depot	B0304
3-B0305Q-X(P)	0.042	Main Depot	B0305
3-B0306Q-X(P)	0.042	Main Depot	B0306
3-B0307Q-X(P)	0.042	Main Depot	B0307
3-B0308Q-X(P)	0.042	Main Depot	B0308
3-B0309Q-X(P)	0.042	Main Depot	B0309
3-B0310Q-X(P)	0.042	Main Depot	B0310
3-B0311Q-X(P)	0.042	Main Depot	B0311
3-B0401Q-X(P)	0.042	Main Depot	B0401
3-B0402Q-X(P)	0.042	Main Depot	B0402
3-B0403Q-X(P)	0.042	Main Depot	B0403
3-B0404Q-X(P)	0.042	Main Depot	B0404
I-B0405Q-X(P)	0.042	Main Depot	B0405
I-B0406Q-X(P)	0.042	Main Depot	B0406
I-B0407Q-X(P)	0.042	Main Depot	B0407
3-B0408Q-X(P)	0.042	Main Depot	B0408
-B0409Q-X(P)	0.042	Main Depot	B0409
-B0410Q-X(P)	0.042	Main Depot	B0410
-B0411Q-X(P)/RD	0.042	Main Depot	B0411
-B0501Q-X(P)/RD	0.042	Main Depot	B0501
-B0502Q-X(P)	0.042	Main Depot	B0502
-B0503Q-X(P)	0.042	Main Depot	B0503
-B0504Q-X(P)	0.042	Main Depot	B0504
-B0505Q-X(P)	0.042	Main Depot	B0505
-B0506Q-X(P)	0.042	Main Depot	B0506
-B0507Q-X(P)	0.042	Main Depot	B0507
-B0508Q-X(P)	0.042	Main Depot	B0508

Table 5-1b (Continued)

QUALIFIED PARCEL	\$ 1.00 m \$ 1.00 m		PINIONS
NUMBER AND LABEL	APPROXIMATE SIZE (AGRES)	GEOGRAPHIC AREA	BUILDING NUMBER
3-B0509Q-X(P)	0.042	Main Depot	B0509
3-B0510Q-X(P)	0.042	Main Depot	B0510
3-B0511Q-X(P)	0.042	Main Depot	B0511
3-B0601Q-X(P)	0.042	Main Depot	B0601
3-B0602Q-X(P)/RD	0.042	Main Depot	B0602
3-B0603Q-X(P)/RD	0.042	Main Depot	B0603
3-B0604Q-X(P)	0.042	. Main Depot	B0604
3-B0605Q-X(P)	0.042	Main Depot	B0605
3-B0606Q-X(P)	0.042	Main Depot	B0606
3-B0607Q-X(P)	0.042	Main Depot	B0607
3-B0608Q-X(P)	0.042	Main Depot	B0608
3-B0609Q-X(P)/RD	0.042	Main Depot	B0609
3-B0610Q-X(P)	0.042	Main Depot	B0610
3-B0611Q-X(P)	0.042	Main Depot	B0611
3-B0701Q-X(P)	0.042	Main Depot	B0701
3-B0702Q-X(P)	0.042	Main Depot	B0702
3-B0703Q-X(P)	0.042	Main Depot	B0703
3-B0704Q-X(P)	0.042	Main Depot	B0704
3-B0705Q-X(P)/RD	0.042	Main Depot	B0705
3-B0706Q-X(P)	0.042	Main Depot	B0706
3-B0707Q-X(P)/RD	0.042	Main Depot	B0707
3-B0708Q-X(P)/RD	0.042	Main Depot	B0708
3-B0709Q-X(P)/RD	0.042	Main Depot	B0709
3-B0710Q-X(P)	0.042	Main Depot	B0710
3-B0711Q-X(P)/RD	0.042	Main Depot	B0711
3-B0801Q-X(P)	0.042	Main Depot	B0801
3-B0802Q-X(P)/RD	0.042	Main Depot	B0802
3-B0803Q-X(P) 3-B0804Q-X(P)/RD	0.042 0.042	Main Depot Main Depot	B0803 B0804
3-B0805Q-X(P)	0.042	Main Depot	B0805
3-B0806Q-X(P)	0.042	Main Depot	B0806
3-B0807Q-X(P)	0.042	Main Depot	B0807
3-B0808Q-X(P)	0.042	Main Depot	B0808
3-B0809Q-X(P)	0.042	Main Depot	B0809
3-B0810Q-X(P)	0.042	Main Depot	B0810
3-B0811Q-X(P)	0.042	Main Depot	B0811
3-B0901Q-X(P)	0.042	Main Depot	B0901
3-B0902Q-X(P)	0.042	Main Depot	B0902
3-B0903Q-X(P)	0.042	Main Depot	B0903
3-B0904Q-X(P)	0.042	Main Depot	B0904
3-B0905Q-X(P)	0.042	Main Depot	B0905
3-B0906Q-X(P)	0.042	Main Depot	B0906
3-B0907Q-X(P)	0.042	Main Depot	B0907
3-B0908Q-X(P)	0.042	Main Depot	B0908

Table 5-1b (Continued)

QUALIFIED PARCEL NUMBER AND LABEL	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	BUILDING NUMBER
3-B0909Q-X(P)/RD	0.042	Main Depot	B0909
3-B0910Q-X(P)	0.042	Main Depot	B0910
3-B0911Q-X(P)	0.042	Main Depot	B0911
3-C0101Q-X(P)	0.042	Main Depot	C0101
3-C0102Q-X(P)	0.042	Main Depot	C0102
3-C0103Q-X(P)	0.042	Main Depot	C0103
3-C0104Q-X(P)	0.042	Main Depot	C0104
3-C0105Q-X(P)	0.042	Main Depot	C0105
3-C0106Q-X(P)	0.042	Main Depot	C0106
3-C0107Q-X(P)	0.042	Main Depot .	C0107
3-C0108Q-X(P)	0.042	Main Depot	C0108
3-C0109Q-X(P)	, 0.042	Main Depot	C0109
3-C0110Q-X(P)	0.042	Main Depot	C0110
3-C0111Q-X(P)	0.042	Main Depot	C0111
3-C0201Q-X(P)	0.042	Main Depot	C0201
3-C0202Q-X(P)	0.042	Main Depot	C0202
3-C0203Q-X(P)/RD	0.042	Main Depot	C0203
3-C0204Q-X(P)	0.042	Main Depot	C0204
3-C0205Q-X(P)	0.042	Main Depot	C0205
3-C0206Q-X(P)	0.042	Main Depot	C0206
3-C0207Q-X(P)	0.042	Main Depot	C0207
3-C0208Q-X(P)	0,042	Main Depot	C0208
3-C0209Q-X(P)	0.042	Main Depot	C0209
3-C0210Q-X(P)	0.042	Main Depot	C0210
3-C0211Q-X(P)	0.042	Main Depot	C0211
3-C0301Q-X(P)	0.042	Main Depot	C0301
-C0302Q-X(P)	0.042	Main Depot	C0302
-C0303Q-X(P)/RD	0.042	Main Depot	C0303
-C0304Q-X(P)	0.042	Main Depot	C0304
-C0305Q-X(P)	0.042	Main Depot	C0305
-C0306Q-X(P)	0.042	Main Depot	C0306
-C0307Q-X(P)/RD	0.042	Main Depot	C0307 ·
-C0308Q-X(P)/RD	0.042	Main Depot	C0308
-C0309Q-X(P)	0.042	Main Depot	C0309
-C0310Q-X(P)	0.042	Main Depot	C0310
-C0311Q-X(P)	0.042	Main Depot	C0311
-C0401Q-X(P)	0.042	Main Depot	C0401
-C0402Q-X(P)	0.042	Main Depot	C0402
-C0403Q-X(P)/RD	0.042	Main Depot	C0403
-C0404Q-X(P)	0.042	Main Depot	C0404
-C0405Q-X(P)/RD	0.042	Main Depot	C0405
-C0406Q-X(P)/RD	0.042	Main Depot	C0406
-C0407Q-X(P)/RD	0.042	Main Depot	C0407
-C0408Q-X(P)/RD	0.042	Main Depot	C0408

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
3-C0409Q-X(P)	0.042	Main Depot	C0409
3-C0410Q-X(P)	0.042	Main Depot	C0410
3-C0411Q-X(P)	0.042	Main Depot	C0411
3-C0412Q-X(P)	0.042	Main Depot	C0412
3-C0501Q-X(P)/RD	0.042	Main Depot	C0501
3-C0502Q-X(P)	0.042	Main Depot	C0502
3-C0503Q-X(P)/RD	0.042	Main Depot	C0503
3-C0504Q-X(P)/RD	0.042	Main Depot	C0504
3-C0505Q-X(P)/RD	0.042	Main Depot	C0505
3-C0506Q-X(P)	0.042	Main Depot	C0506
3-C0507Q-X(P)	0.042	Main Depot	C0507
3-C0508Q-X(P)/RD	0.042	Main Depot	C0508
132-C0509Q-X(P)	0.042	Main Depot	C0509
3-C0510Q-X(P)/RD	0.042	Main Depot	C0510
3-C0511Q-X(P)/RD	0.042	Main Depot.	C0511
3-C0512Q-X(P)	0.042	Main Depot	C0512
3-C0513Q-X(P)/RD	0.042	Main Depot	C0513
3-C0601Q-X(P)	0.042	Main Depot	C0601
3-C0602Q-X(P)	0.042	Main Depot	C0602
3-C0603Q-X(P)/RD	0.042	Main Depot	C0603
3-C0604Q-X(P)/RD	0.042	Main Depot	C0604
3-C0605Q-X(P)/RD	0.042	Main Depot	C0605
3-C0606Q-X(P)/RD	0,042	Main Depot	C0606
3-C0607Q-X(P)	0.042	Main Depot	C0607
3-C0608Q-X(P)/RD	0.042	Main Depot	C0608
3-C0609Q-X(P)	0.042	Main Depot	C0609
3-C0610Q-X(P)	0.042	Main Depot	. C0610
3-C0611Q-X(P)	0.042	Main Depot	C0611
3-C0701Q-X(P)	0.042	Main Depot	C0701
3-C0702Q-X(P)	0.042	Main Depot	C0702
3-C0703Q-X(P)	0.042	Main Depot	C0703
3-C0704Q-X(P)	0.042	Main Depot	C0704·
3-C0705Q-X(P)	0.042	Main Depot	C0705
3-C0706Q-X(P)	0.042	Main Depot	C0706
3-C0707Q-X(P)	0.042	Main Depot	C0707
3-C0708Q-X(P)	0.042	Main Depot	C0708
3-C0709Q-X(P)	0.042	Main Depot	C0709
3-C0801Q-X(P)/RD	0.042	Main Depot	C0801
3-C0802Q-X(P)	0.042	Main Depot	C0802
3-C0803Q-X(P)/RD	0.042	Main Depot	C0803
3-C0804Q-X(P)	0.042	Main Depot	C0804
3-C0805Q-X(P)	0.042	Main Depot	C0805
3-C0806Q-X(P)	0.042	Main Depot	C0806
3-C0807Q-X(P)/RD	0.042	Main Depot	C0807

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL*	SIZE (ACRES)	AREA	NUMBER
3-C0808Q-X(P)	0.042	Main Depot	C0808
3-C0809Q-X(P)/RD	0.042	Main Depot	C0809
3-C0901Q-X(P)	0.042	Main Depot	C0901
3-C0902Q-X(P)/RD	0.042	Main Depot	C0902
3-C0903Q-X(P)	0.042	Main Depot	C0903
3-C0904Q-X(P)	0.042	Main Depot	C0904
3-C0905Q-X(P)	0.042	Main Depot	C0905
3-C0906Q-X(P)/RD	0.042	Main Depot	C0906
3-C0907Q-X(P)/RD	0.042	Main Depot	C0907
3-C0908Q-X(P)/RD	0.042	Main Depot	C0908
3-C0909Q-X(P)/RD	0.042	Main Depot	C0909
3-C0910Q-X(P)	0.042	Main Depot	C0910
3-C0911Q-X(P)	0.042	Main Depot	C0911
3-C0912Q-X(P)	0.042	Main Depot	C0912
3-C0913Q-X(P)	0.042	Main Depot	C0913
3-D0101Q-X(P)	0.042	Main Depot	D0101
3-D0102Q-X(P)	0.042	Main Depot	D0102
3-D0103Q-X(P)	0.042	Main Depot	D0103
-D0104Q-X(P)/RD	0.042	Main Depot	D0104
3-D0105Q-X(P)/RD	0.042	Main Depot	D0105
3-D0106Q-X(P)	0.042	Main Depot	D0106
3-D0107Q-X(P)	0.042	Main Depot	D0107
-D0108Q-X(P)/RD	0.042	Main Depot	D0108
-D0109Q-X(P)	0.042	Main Depot	D0109
-D0110Q-X(P)/RD	0.042	Main Depot	D0110
-D0111Q-X(P)	0.042	Main Depot	D0111
-D0112Q-X(P)	0.042	Main Depot	D0112
-D0113Q-X(P)/RD	0.042	Main Depot	D0113
-D0201Q-X(P)	0.042	Main Depot	D0201
-D0202Q-X(P)	0.042 .	Main Depot	D0202
-D0203Q-X(P)	0.042	Main Depot	D0203
-D0204Q-X(P)	0.042	Main Depot	D0204
-D0205Q-X(P)	0.042	Main Depot	D0205
-D0206Q-X(P)/RD	0.042	Main Depot	D0206
-D0207Q-X(P)/RD	0.042	Main Depot	D0207
-D0208Q-X(P)	0.042	Main Depot	D0208
-D0209Q-X(P)	0.042	Main Depot	D0209
-D0210Q-X(P)	0.042	Main Depot	D0210
-D0211Q-X(P)	0.042	Main Depot	D0211
-D0212Q-X(P)	0.042	Main Depot	D0212
-D0301Q-X(P)	0.042	Main Depot	D0301
-D0302Q-X(P)	0.042	Main Depot	D0302
-D0303Q-X(P)	0.042	Main Depot	D0303
-D0304Q-X(P)	0.042	Main Depot	D0304

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL!	SIZE (ACRES)	AREA	NUMBER
3-D0305Q-X(P)/RD	0.042	Main Depot	D0305
3-D0306Q-X(P)/RD	0.042	Main Depot	D0306
3-D0307Q-X(P)	0.042	Main Depot	D0307
3-D0308Q-X(P)	0.042	Main Depot	D0308
3-D0309Q-X(P)	0.042	Main Depot	D0309
3-D0310Q-X(P)	0.042	Main Depot	D0310
3-D0311Q-X(P)	0.042	Main Depot	D0311
3-D0312Q-X(P)/RD	0.042	Main Depot	D0312
3-D0313Q-X(P)	0.042	Main Depot	D0313
3-D0401Q-X(P)/RD	0.042	Main Depot .	D0401
3-D0402Q-X(P)	0.042	Main Depot	D0402
3-D0403Q-X(P)	0.042	Main Depot	D0403
3-D0404Q-X(P)	0.042	Main Depot	D0404
3-D0405Q-X(P)	0.042	Main Depot	D0405
3-D0406Q-X(P)/RD	0.042	Main Depot	D0406
3-D0407Q-X(P)/RD	0.042	Main Depot	D0407
3-D0408Q-X(P)	0.042	Main Depot	D0408
3-D0409Q-X(P)	0.042	Main Depot	D0409
3-D0410Q-X(P)	0.042	Main Depot	D0410
3-D0411Q-X(P)	0.042	Main Depot	D0411
3-D0412Q-X(P)	0.042	Main Depot	D0412
3-D0413Q-X(P)	0.042	Main Depot	D0413
3-D0501Q-X(P)	0.042	Main Depot	D0501
3-D0502Q-X(P)	0.042	Main Depot	D0502
3-D0503Q-X(P)	0.042	Main Depot	D0503
3-D0504Q-X(P)	0.042	Main Depot	D0504
3-D0505Q-X(P)	0.042	Main Depot	D0505
3-D0506Q-X(P)	0.042	Main Depot	. D0506
3-D0507Q-X(P)	0.042	Main Depot	D0507
3-D0508Q-X(P)	0.042	Main Depot	D0508
3-D0509Q-X(P)	0,042	Main Depot	D0509
3-D0510Q-X(P)	0.042	Main Depot	D0510
3-D0511Q-X(P)	0.042	Main Depot	D0511
3-D0512Q-X(P)	0.042	Main Depot	D0512
3-D0513Q-X(P)	0.042	Main Depot	D0513
3-D0601Q-X(P)/RD	0.042	Main Depot	D0601
3-D0602Q-X(P)	0.042	Main Depot	D0602
3-D0603Q-X(P)	0.042	Main Depot	D0603
3-D0604Q-X(P)/RD	0.042	Main Depot	D0604
3-D0605Q-X(P)	0.042	Main Depot	D0605
3-D0606Q-X(P)	0.042	Main Depot	D0606
3-D0607Q-X(P)/RD	0.042	Main Depot	D0607
3-D0608Q-X(P)	0.042	Main Depot	D0608
3-D0609Q-X(P)	0.042	Main Depot	D0609

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL*	SIZE (ACRES)	AREA	NUMBER
3-D0610Q-X(P) ·	0.042	Main Depot	D0610
3-D0611Q-X(P)	0.042	Main Depot	D0611
3-D0612Q-X(P)	0.042	Main Depot	D0612
3-D0701Q-X(P)	0.042	Main Depot	D0701
3-D0702Q-X(P)	0.042	Main Depot	D0702
3-D0703Q-X(P)	0.042	Main Depot	D0703
3-D0704Q-X(P)/RD	0.042	Main Depot	D0704
3-D0705Q-X(P)/RD	0.042	Main Depot	D0705
3-D0706Q-X(P)	0.042	Main Depot	D0706
3-D0707Q-X(P)	0.042	Main Depot	D0707
3-D0708Q-X(P)	0.042	Main Depot	D0708
3-D0709Q-X(P)	0.042	Main Depot	D0709
3-D0710Q-X(P)	0.042	Main Depot	D0710
3-D0711Q-X(P)/RD	0.042	Main Depot	D0711
3-D0712Q-X(P)/RD	0.042	Main Depot	D0712
3-D0801Q-X(P)/RD	0.042	Main Depot	D0801
3-D0802Q-X(P)	0.042	Main Depot	D0802
3-D0803Q-X(P)	0.042	Main Depot	D0803
3-D0804Q-X(P)	0.042	Main Depot	D0804
3-D0805Q-X(P)/RD	0.042	Main Depot	D0805
3-D0806Q-X(P)	0.042	Main Depot	D0806
3-D0807Q-X(P)	0.042	Main Depot	D0807
3-D0808Q-X(P)	0.042	Main Depot	D0808
3-D0809Q-X(P)	0.042	Main Depot	D0809
3-D0810Q-X(P)	0.042	Main Depot	D0810
3-D0811Q-X(P)	0.042	Main Depot	D0811
3-D0812Q-X(P)	0.042	Main Depot	D0812
3-E0101Q-X(P)	0.055	Main Depot	E0101
3-E0102Q-X(P)	0.055	Main Depot	E0102
3-E0103Q-X(P)/RD	0.055	Main Depot	E0103
3-E0104Q-X(P)	0.055	Main Depot	E0104
3-E0105Q-X(P)/RD	0.055	Main Depot	E0105
3-E0106Q-X(P)	0.055	Main Depot	E0106
3-E0107Q-X(P)	0.055	Main Depot	E0107
3-E0108Q-X(P)	0.055	Main Depot	E0108
3-E0109Q-X(P)	0.055	Main Depot	E0109
3-E0110Q-X(P)	0.055	Main Depot	E0110
3-E0111Q-X(P)	0.055	Main Depot	E0111
3-E0112Q-X(P)/RD	. 0.055	Main Depot	E0112
3-E0113Q-X(P)	0.055	Main Depot	E0113
3-E0114Q-X(P)	0.055	Main Depot	E0114
3-E0201Q-X(P)	0.055	Main Depot	E0201
3-E0202Q-X(P)	0.055	Main Depot	E0202
3-E0203Q-X(P)	0.055	Main Depot	E0203

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
3-E0204Q-X(P)	0.055	Main Depot	E0204
3-E0205Q-X(P)	0.055	Main Depot	E0205
3-E0206Q-X(P)	0.055	Main Depot	E0206
3-E0207Q-X(P)	0.055	Main Depot	E0207
3-E0208Q-X(P)	0,055	Main Depot	E0208
3-E0209Q-X(P)	0.055	Main Depot	E0209
3-E0210Q-X(P)	0.055	Main Depot	E0210
3-E0211Q-X(P)/RD	0.055	Main Depot	E0211
3-E0212Q-X(P)	0.055	Main Depot	E0212
3-E0213Q-X(P)	0.055	Main Depot	E0213
3-E0214Q-X(P)	0.055	Main Depot	E0214
3-E0301Q-X(P)/RD	0.055	Main Depot	E0301
3-E0302Q-X(P)/RD	0.055	Main Depot	E0302
3-E0303Q-X(P)/RD	0.055	Main Depot	E0303
3-E0304Q-X(P)	0.055	Main Depot	E0304
3-E0305Q-X(P)	0.055	Main Depot	E0305
3-E0306Q-X(P)	0.055	Main Depot	E0306
3-E0307Q-X(P)	0.055	Main Depot	E0307
3-E0308Q-X(P)	0.055	Main Depot	E0308
3-E0309Q-X(P)	0.055	Main Depot	E0309
3-E0310Q-X(P)	0.055	Main Depot	E0310
3-E0311Q-X(P)	0.055	Main Depot	E0311
3-E0312Q-X(P)/RD	0.055	Main Depot	E0312
3-E0313Q-X(P)	0.055	Main Depot	E0313
3-E0401Q-X(P)	0.055	Main Depot	E0401
3-E0402Q-X(P)/RD	0.055	Main Depot	E0402
3-E0403Q-X(P)	0,055	Main Depot	E0403
3-E0404Q-X(P)	0.055	Main Depot	E0404
3-E0405Q-X(P)	0.055	Main Depot	E0405
3-E0406Q-X(P)	0.055	Main Depot	E0406
3-E0407Q-X(P)	0.055	Main Depot	E0407
3-E0408Q-X(P)	0.055	·Main Depot	E0408
3-E0409Q-X(P)	0.055	Main Depot	E0409
3-E0410Q-X(P)/RD	0.055	Main Depot	E0410
3-E0411Q-X(P)/RD	0.055	Main Depot	E0411
3-E0412Q-X(P)	0.055	Main Depot	E0412
3-E0413Q-X(P)/RD	0.055	Main Depot	E0413
3-E0501Q-X(P)	0.055	Main Depot	E0501
3-E0502Q-X(P)	0.055	Main Depot	E0502
3-E0503Q-X(P)	0.055	Main Depot	E0503
3-E0504Q-X(P)/RD	0.055	Main Depot	E0504
3-E0505Q-X(P)	0.055	Main Depot	E0505
3-E0506Q-X(P)/RD	0.055	Main Depot	E0506
3-E0507Q-X(P)	0.055	Main Depot	E0507

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
3-E0508Q-X(P)	0.055	Main Depot	E0508
3-E0509Q-X(P)	0.055	Main Depot	E0509
3-E0510Q-X(P)	0.055	Main Depot	E0510
3-E0511Q-X(P)	0.055	Main Depot	E0511
3-E0512Q-X(P)/RD	0.055	Main Depot	E0512
3-E0513Q-X(P)	0.055	Main Depot	E0513
3-E0601Q-X(P)	0.055	Main Depot	E0601
3-E0602Q-X(P)/RD	0.055	Main Depot	E0602
3-E0603Q-X(P)	0.055	Main Depot	E0603
3-E0604Q-X(P)/RD	0.055	Main Depot	E0604
3-E0605Q-X(P)	0.055	Main Depot	E0605
3-E0606Q-X(P)	0.055	Main Depot	E0606
3-E0607Q-X(P)	0.055	Main Depot	E0607
3-E0608Q-X(P)	0.055	Main Depot	E0608
3-E0609Q-X(P)/RD	0.055	Main Depot	E0609
3-E0610Q-X(P)/RD	0.055	Main Depot	E0610
3-E0611Q-X(P)	. 0.055	Main Depot	E0611
3-E0701Q-X(P)	0.055	Main Depot	E0701
3-E0702Q-X(P)/RD	0.055	Main Depot	E0702
3-E0703Q-X(P)	0.055	Main Depot	E0703
3-E0704Q-X(P)	0.055	Main Depot	E0704
3-E0705Q-X(P)	0.055	Main Depot	E0705
3-E0706Q-X(P)/RD	0.055	Main Depot	E0706
3-E0707Q-X(P)	0.055	Main Depot	E0707
3-E0708Q-X(P)	0.055	Main Depot	E0708
3-E0709Q-X(P)	0.055	Main Depot	E0709
3-E0710Q-X(P)	0.055	Main Depot	E0710
3-E0711Q-X(P)	0.055	Main Depot	E0711
I-S142Q-A/L(P)	0.235	South Depot	S142
-T370Q-L(P)	0.005	Main Depot	T370
i-2401Q-A/L(P)	0.062	Lake Housing	2401
3-2402Q-L(P)	0.014	Lake Housing	2402
i-2403Q-A/L(P)	0.042	Lake Housing	2403
-2404Q-A/L(P)	0.050	Lake Housing	2404
i-2405Q-L(P)	0.014	Lake Housing	2405
-2406Q-A/L(P)	0.051	Lake Housing	2406
-2407Q-A(P)/L(P)	0.014	· Lake Housing	2407
-2408Q-A/L(P)	0.094 ·	Lake Housing	2408
-2410Q-A/L(P)	0.086	Lake Housing	2410
-2411Q-A/L(P)	0.058	Lake Housing	2411
-2412Q-A/L(P)	0.024	Lake Housing	2412
-2413Q-L(P)	0.010	Lake Housing	2413
-2414Q-A/L(P)	0.045	Lake Housing	2414
-2415Q-A/L(P)	0.024	Lake Housing	2415

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL!	SIZE (ACRES)	AREA	NUMBER
5-2416Q-L(P)	0.008	Lake Housing	2416
5-2417Q-L(P)	0.009	Lake Housing	2417
5-2418Q-A/L(P)	0.018	Lake Housing	2418
5-2419Q-A/L(P)	0.030	Lake Housing	2419
5-2420Q-L(P)	0.006	Lake Housing	2420
5-2421Q-A/L(P)	0.040	Lake Housing	2421
5-2423Q-A/L(P)	0.030	Lake Housing	2423
5-2424Q-L(P)	0.014	Lake Housing	2424
5-2425Q-A/L(P)	0.028	Lake Housing	2425
5-2426Q-A/L(P)	0.022	Lake Housing	2426
5-2427Q-A/L(P)	0.021	Lake Housing	2427
5-2428Q-L(P)	0.008	Lake Housing	2428
5-2429Q-A/L(P)	0.023	Lake Housing	2429
5-2430Q-L(P)	0.007	Lake Housing	2430
5-2431Q-L(P)	0.008	Lake Housing	2431
5-2432Q-A/L(P)	0.034	Lake Housing	2432
5-2433Q-L(P)	0.009	Lake Housing	2433
5-2434Q-A/L(P)	0.003	Lake Housing	2434
5-2436Q-L(P)	0,005	Lake Housing	2436
5-2437Q-A/L(P)	0.042	Lake Housing	2437
129-2438Q-A/L(P)	0.027	Lake Housing	2438
5-2439Q-A(P)/L(P)	0.008	Lake Housing	2439
5-2441Q-A/L(P)	0.024	Lake Housing Lake Housing	2441 2443
5-2443Q-A/L(P) 5-2444Q-L(P)	0.028	Lake Housing	2444
5-2445Q-A(P)	0.021	Lake Housing	2445
5-2446Q-A/L(P)	0.021	Lake Housing	2446
5-2447Q-L(P)	0.009	Lake Housing	2447
5-2448Q-A/L(P)	0.029	Lake Housing	2448
5-2449Q-L(P)	0.012	Lake Housing	2449
5-2450Q-A/L(P)	0.012	Lake Housing	2450
5-2451Q-L(P)	0.013	Lake Housing	2451
133-2452Q-A/L(P)	0.027	Lake Housing	2452
5-2453Q-A/L(P)	0.031	Lake Housing	2453
5-2454Q-L(P)	0.006	Lake Housing	2454
5-2456Q-L(P)	0.018	Lake Housing	2456
5-2458Q-A(P)/L(P)	0.000	Lake Housing	2458
5-2466Q-A/L(P)	0.007	Lake Housing	2466
5-2473Q-L(P)	0.018	Lake Housing	2473
5-2516Q-R	0.055	Lake Housing	2516
5-2470Q-A(P)/L(P)	0.011	Lake Housing	2470
5-2471Q-A(P)/L(P)	0.011	Lake Housing	2471
5-2472Q-A(P)/L(P)	0.011	Lake Housing	2472
5-2474Q-A(P)/L(P)	0.017	Lake Housing	2474

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL*	SIZE (ACRES)	AREA	NUMBER
5-2475Q-A(P)/L(P)	0.015	Lake Housing	2475
5-2476Q-A(P)/L(P)	0.017	Lake Housing	2476
5-2477Q-A(P)/L(P)	0.018	Lake Housing	2477
5-2478Q-A(P)/L(P)	0.017	Lake Housing	2478
5-2480Q-A(P)/L(P)	0.015	Lake Housing	2480
5-2481Q-A(P)/L(P)	0.017	Lake Housing	2481
5-2482Q-A(P)/L(P)	0.018	Lake Housing	2482
5-2484Q-A(P)/L(P)	0.018	Lake Housing	2484
7-2306Q-L(P)	0.201	Airfield	2306
8-2305Q-A/L(P)	0.128	Airfield	2305
11-327Q-A(P)/L(P)	2.066	Warehouse	327
12-326Q-A(P)/L(P)	2.066	Warehouse	326
13-330Q-A(P)/L(P)/X(P)	2.066	Warehouse	330
14-331Q-A(P)/L(P)	2.066	Warehouse	331
15-324Q-A(P)/L(P)	2.066	Warehouse	324
16-343Q-A(P)/L(P)	2.066	Warehouse	343
17-323Q-A/L(P)	2.066	Warehouse	323
18-333Q-A(P)/L(P)	2.066	Warehouse	333
19-307Q-A(P)	0.046	Warehouse	307
20-316Q-L(P)	0.427	IPE	316
20-317Q-L(P)	0.607	IPE	317
20-318Q-L(P)	0.427	IPE	318
21-202Q-A/L(P)	0.041	South Depot	202
21-203Q-A/L(P)	0.046	South Depot	203
21-204Q-A/L(P)	0.049	South Depot	204
21-205Q-A/L(P)	0.046	South Depot	205
21-206Q-A/L(P)	0.046	South Depot	206
21-207Q-A/L(P)	0.046	South Depot	207
21-214Q-A/L(P)	0.044 .	South Depot	. 214
21-215Q-A/L(P)	0.041	South Depot	215
21-216Q-A/L(P)	0.041	South Depot	216
21-217Q-A/L(P)	0.046	South Depot	217
21-200AQ-A/L(P)	0.035	South Depot	200-A
21-200BQ-A/L(P)	0.035	South Depot	200-B
21-201AQ-A/L(P)	0.035	South Depot	201-A
21-201BQ-A/L(P)	0.035	South Depot	201-B
21-208AQ-A/L(P)	0.059	South Depot	208-A
21-208BQ-A/L(P)	0.059	South Depot	208-B
21-209AQ-A/L(P)	. 0.059	South Depot	209-A
21-209BQ-A/L(P)	0.059	South Depot	209-B
21-210AQ-A/L(P)	0.040	South Depot	210-A
21-210BQ-A/L(P)	0.040	South Depot	210-B
21-211AQ-A/L(P)	0.037	South Depot	211-A
21-211BQ-A/L(P)	0.037	South Depot	211-B

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING	
NUMBER AND LABEL	SIZE (A(SRES))	ARIBA	NUMBER	
135-212AQ-L(P)	0,040	South Depot	212-A	
135-212BQ-L(P)	0.040	South Depot	212-B	
21-213AQ-A/L(P)	0.037	South Depot	213-A	
21-213BQ-A/L(P)	0.037	South Depot	213-В	
21-218AQ-A/L(P)	0.037	South Depot	218-A .	
21-218BQ-A/L(P)	0.037	South Depot	218-B	
21-219AQ-A/L(P)	0.040	. South Depot	219-A	
21-219BQ-L(P)	0.040	South Depot	219-В	
21-221AQ-A/L(P)	0.037	South Depot	221-A	
21-221BQ-A/L(P)	0.037	South Depot	221-B	
21-222AQ-A/L(P)	0.040	South Depot	222-A	
21-222BQ-A/L(P)	0.040	South Depot	222-B	
21-223AQ-A/L(P)	0.037	South Depot	223-A	
21-223BQ-A/L(P)	0.037	South Depot	223-B	
21-224AQ-A/L(P)	0.030	South Depot	224-A	
21-224BQ-L(P)	0.030	South Depot	224-B	
21-224CQ-A/L(P)	0.030	South Depot	224-C	
21-224DQ-L(P)	0.030	South Depot	224-D	
21-225AQ-L(P)	0.030	South Depot	225-A	
21-225BQ-L(P)	0.030	South Depot	225-B	
21-225CQ-A/L(P)	0.030	South Depot	. 225-C	
21-225DQ-A/L(P)	. 0.030	South Depot	225-D	
21-226AQ-A/L(P)	0.030	South Depot	226-A	
21-226BQ-A/L(P)	0.030	South Depot	226-B	
21-226CQ-A/L(P)	0.030	South Depot	226-C	
21-226DQ-A/L(P)	0.030	South Depot	226-D	
21-227AQ-A/L(P)	0.030	South Depot	227-A	
21-227BQ-A/L(P)	0.030	South Depot	227-B	
21-227CQ-A/L(P)	0.030	South Depot	227-C	
21-227DQ-A/L(P)	0.030	South Depot	227-D	
21-228AQ-A/L(P)	0.030	South Depot	228-A	
21-228BQ-A/L(P)	0.030	South Depot	228-B	
21-228CQ-A/L(P)	0.030	South Depot	228-C	
21-228DQ-A/L(P)	0.030	South Depot	228-D	
21-229AQ-A/L(P)	0.030	South Depot	229-A	
21-229BQ-L(P)	0.030	South Depot	229-B	
21-229CQ-A/L(P)	0.030	South Depot	229-C	
21-229DQ-L(P)	0.030	South Depot	229-D	
21-230AQ-L(P)	0.030	South Depot	230-A	
21-230BQ-A/L(P)	0.030	South Depot	230-В	
21-230CQ-A/L(P)	0.030	South Depot	230-C	
21-230DQ-A/L(P)	0.030	South Depot	230-D	
21-231AQ-A/L(P)	0.030	South Depot	231-A	
21-231BQ-L(P)	0.030	South Depot	231-B	

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL*	SIZE (ACRES)	AREA	NUMBER
21-231CQ-L(P)	0.030	South Depot	231-C
21-231DQ-A/L(P)	0.030	South Depot	231-D
21-232AQ-A/L(P)	0.030	South Depot	232-A
21-232BQ-A/L(P)	0.030	South Depot	232-В
21-232CQ-A/L(P)	0.030	South Depot	232-C
21-232DQ-A/L(P)	0.030	South Depot	232-D
21-233AQ-L(P)	0.030	South Depot	233-A
21-233BQ-A/L(P)	0.030	South Depot	233-В
21-233CQ-A/L(P)	0.030	South Depot	233-C
21-233DQ-L(P)	0.030	South Depot	233-D
21-234AQ-A/L(P)	0.030	South Depot	234-A
21-234BQ-A/L(P)	0.030	South Depot	234-B
21-234CQ-A/L(P)	0.030	· South Depot	234-C
21-234DQ-A/L(P)	0.030	South Depot	234-D
21-235AQ-L(P)	0.030	South Depot	235-A
21-235BQ-A/L(P)	0.030	South Depot	235-В
21-231CQ-A/L(P)	0.030	South Depot	235-C
21-235DQ-A/L(P)	0.030	South Depot	235-D
21-236AQ-A/L(P)	0.030	South Depot	236-A
21-236BQ-A/L(P)	0.030	South Depot	236-B
21-236CQ-A/L(P)	0.030	South Depot	236-C
21-236DQ-A/L(P)	0.030	South Depot	236-D
21-237AQ-A/L(P)	0.030	South Depot	237-A
21-237BQ-A/L(P)	0.030	South Depot	237-B
21-237CQ-A/L(P)	0.030	South Depot	237-C
21-237DQ-L(P)	0.030	South Depot	237-D
21-238AQ-A/L(P)	0.030	South Depot	238-A
21-238BQ-A/L(P)	0.030	South Depot	238-B
21-238CQ-A/L(P)	0.030	South Depot	238-C
21-238DQ-A/L(P)	0.030	South Depot	238-D
1-239AQ-L(P)	0.030	South Depot	239-A
21-239BQ-A/L(P)	0.030	South Depot	239-B
21-239CQ-A/L(P)	0.030	South Depot	239-C
1-239DQ-A/L(P)	0.030	South Depot	239-D
1-240AQ-A/L(P)	0.030	South Depot	240-A
1-240BQ-A/L(P)	0.030	South Depot	240-B
1-240CQ-A/L(P)	0.030	South Depot	240-C
1 04000 1 (((0)	0.030	South Depot	240-D
1-241AQ-A/L(P)	0.030	South Depot .	241-A
11-241BQ-A/L(P)	0.030	South Depot	241-B
1-241CQ-A/L(P)	0.030	South Depot	241-B
11-241DQ-A/L(P)	0.030	South Depot	241-D
	0.030	South Depot	241-D
1-242AQ-A/L(P) 1-242BQ-A/L(P)	0.030	South Depot	242-B

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
21-242CQ-A/L(P)	0.030	South Depot	242-C
21-242DQ-A/L(P)	0.030	South Depot	242-D
21-243AQ-A/L(P)	0.034	South Depot	243-A
21-243BQ-A/L(P)	0.034	South Depot	243-B
21-243CQ-A/L(P)	0.034	South Depot	243-C
21-243DQ-A/L(P)	0.034	South Depot	243-D
21-244AQ-L(P)	0.034	South Depot	244-A
21-244BQ-L(P)	0.034	South Depot	244-B
21-244CQ-A/L(P)	0.034	South Depot	244-C
21-244DQ-L(P)	0.034	South Depot	244-D
21-245AQ-A/L(P)	0.034	South Depot	245-A
21-245BQ-L(P)	0.034	South Depot	245-B
21-245CQ-L(P)	0.034	South Depot	245-C
21-245DQ-L(P)	0.034	South Depot	245-D
22-101Q-A/L(P)	0.339	South Depot	101
23-103Q-A/L(P)	0.265	South Depot	103
24-118Q-L(P)	0.435	South Depot	118
24-120Q-A/L(P)	0.009	South Depot	120
25-117Q-A/L(P)	0.456	South Depot	117
27-106Q-A/L(P)	0.254	South Depot	106
28-114Q-L(P)	0.277	South Depot	114
30-113Q-A/L(P)	0.379	South Depot	113
31-312Q-L(P)	0.275	South Depot	312
32-800Q-A	0.029	North Depot	800
33-729Q-A/L(P)	0.106	North Depot	729
34-719Q-L(P)	0.009	North Depot	719
34-720Q-A/L(P)	0.098	North Depot	720
34-721Q-L(P)	0.004	North Depot	721
35-733Q-L(P)	0.012	North Depot	733
37-710Q-L(P)	0.075	North Depot	710
38-742Q-A/L(P)	0.032	North Depot	742
39-S714Q-L(P)	0.175	North Depot	S714
40-740Q-A/L(P)	0.103	North Depot	740
45-356Q-A(P)/L(P)	4.664	Warehouse	356
47-732Q-L(P)	0.082	Main Depot	732
49-E0801Q-X(P)/RD	0.055	Main Depot	E0801
49-E0802Q-X(P)/RD	0.055	Main Depot	E0802
49-E0803Q-X(P)/RD	0.055	Main Depot	E0803
49-E0804Q-X(P)/RD	0.055	Main Depot	E0804
49-E0805Q-X(P)/RD	0.055	Main Depot	E0805
49-E0806Q-X(P)/RD	0.055	Main Depot	E0806
49-E0807Q-X(P)/RD	0.055	Main Depot	E0807
49-E0808Q-X(P)/RD	0.055	Main Depot	E0808
49-E0809Q-X(P)/RD	0.055	Main Depot	E0809

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL*	SIZE (ACRES)	AREA	NUMBER
49-E0810Q-X(P)/RD ·	0.055	Main Depot	E0810
49-E0811Q-X(P)/RD	0.055	Main Depot .	E0811
50-319Q-A/L(P)	0.066	Warehouse	319
51-360Q-A	0.199	IPE	360
54-2409Q-L(P)	0.017	Lake Housing	2409
57-2073Q-L(P)/X(P)/RD	0.085	Main Depot	2073
57-2074Q-A/L(P)/X(P)	0.004	Main Depot	2074
57-2075Q-L(P)/X(P)	0.003	Main Depot	2075
57-2076Q-A/L(P)	0.125	Main Depot	2076
57-2077Q-A/L(P)	0.013	Main Depot	2077
57-2078Q-A/L(P)/X(P)	0.172	Main Depot	2078
57-2079Q-A/L(P)	0.044	Main Depot	2079
57-2084Q-A/L(P)/X(P)/RD	0.126	Main Depot	2084
57-2085Q-A/L(P)/X(P)	0.038	Main Depot	2085
59-608Q-L(P)/X(P)	0.008	Main Depot	608
59-609Q-A/L(P)	0.016	Main Depot	609
59-610Q-L(P)/X(P)	0.012	Main Depot	610
59-611Q-L(P)	0.009	Main Depot	611
59-612Q-L(P)/X(P)/RD	0.422	Main Depot	612
63-606Q-A/L(P)	0.078	Main Depot	. 606
63-607Q-A/L(P)	0.010	Main Depot	607
78-T355Q-L(P)	0.115	Main Depot	T355 ·
80-367Q-L(P)/X(P)	0.084	Main Depot	367
82-S311Q-A/L(P)/X(P)	0.267	Main Depot	\$311
82-S361Q-L(P)/X(P)	0.039	Main Depot	\$361
84-306Q-L(P)/X(P)/RD	0.124	Main Depot	306
34-308Q-L(P)	0.012	Main Depot	308
36-135Q-A/L(P)	0.115	South Depot	135
87-121Q-L(P)	0.075	South Depot	121
38-127Q-L(P)	0.141	South Depot	127
92-5Q-L(P)/X(P)/RD	0.270	Main Depot	5
02-6Q-A/L(P)	0.014	Main Depot	7
92-7Q-L(P)/X(P)	0.270	Main Depot	9
92-9Q-L(P)	0.019	Main Depot Main Depot	12
92-12Q-L(P) 94-4Q-L(P)	0.012	Main Depot	4
98-801Q-A(P)/L(P)	0.000	Special Weapons	801
98-802Q-L(P)	0.120	Special Weapons	802
98-803Q-L(P)/X(P)/RD	0.064	Special Weapons	803
98-804Q-A/L(P)/X(P)/RD	0.031	Special Weapons	804
98-805Q-L(P)	0.010	Special Weapons	805
98-806Q-A/L(P)	0.092	Special Weapons	806
98-807Q-A/L(P)	0.092	Special Weapons	807
98-809Q-L(P)	0.004	Special Weapons	809

Table 5-1b (Continued)

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL		AREA	NUMBER
98-810Q-A/L(P)/RD	0.872	Special Weapons	810
98-812Q-A/L(P)	0.245	Special Weapons	812
98-813Q-L(P)/X(P)	0.100	Special Weapons	813
98-814Q-A/L(P)/X(P)	0.082	Special Weapons	814
98-815Q-L(P)/X(P)/RD	0.254	Special Weapons	815
98-816Q-L(P)/X(P)/RD	0.353	Special Weapons	816
98-817Q-A/L(P)/X(P)	0.022	Special Weapons	817
98-819Q-A/L(P)/X(P)/RD	0.190	Special Weapons	819
98-823Q-A(P)/L(P)/X(P)	0.002	Special Weapons	823
98-824Q-L(P)	0.090	Special Weapons	824
98-825Q-L(P)	0.092	Special Weapons	825
98-A0101Q-X(P)/RD	0,028	Special Weapons	A0101
98-A0102Q-X(P)/RD	0.028	Special Weapons	A0102
100-747Q-RD	0.200	North Depot	747
101-718Q-L(P)	0.074	North Depot	718
102-716Q-L(P)	0.003	North Depot	716
104-2104Q-A/L(P)	0.030	Main Depot	2104
104-2105Q-L(P)	0.492	OB/OD Grounds	2105
104-2106Q-A/L(P)/X(P)	0.013	OB/OD Grounds	2106
104-2107Q-L(P)/X(P)	0.001	OB/OD Grounds	2107
104-2110Q-L(P)	0.492	OB/OD Grounds	2110
106-2131Q-L(P)	0.005	Main Depot	2131
108-335Q-A(P)/L(P)	0.088	Warehouse	335
114Q-X	2.900	Airfield .	Airfield Firing Range
115Q-X	0.814	Airfield	Airfield Skeet Range
116Q-X	178.840	. Main Depot	SEAD-4 and other
			areas
117Q-X	16.208	Main Depot	Munitions Burial Area
118Q-RD	72,790	Main Depot	Pitchblend Storage
1100 V	0.660	Main Danat	Igloos
119Q-X	0.000	Main Depot	Firing Range near Ovid Road
120Q-X	3,720	Main Depot	Material Proof Area
121Q-X	1,620	Main Depot	Material Proof Area
122Q-X	8.070	Duck Ponds	Small Arms Range
123Q-RD	334.790	Special Weapons	Special Weapons Area
124Q-RD	15.790	Special Weapons	Special Weapons Area
125Q-X	0.250	North Depot	Firing Range in
		.1	Building 744
126Q-RD	3.640	Special Weapons	SEAD-63

Table 5-1b (Continued)

QUALIFIED PARCEL NUMBER AND LABEL	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	BUILDING NUMBER
127Q-X	1,055.650	OB/OD Grounds	OB/OD Grounds
128Q-X	1.880	Main Depot	Abandoned Powder Burning Pit

Notes:

* BRAC parcel label definitions are as follows:

PS = petroleum storage
PR = petroleum release or disposal
HS = hazardous substance storage
HR = hazardous substance release or disposal

Qualified parcel label definitions are as follows:

A = asbestos containing material L = lead-based paint P = polychlorinated biphenyls

R = radon
X = UXO and/or ordnance fragments
RD = radionuclides

(P) = possible (unverified)

Table 5-3 POTENTIAL UXO HAZARDS SENECA ARMY DEPOT ACTIVITY

BUILDING/PARCEL NUMBER	ACRES	DESCRIPTION	PURPOSE	COMMENT	EBS SOURCE OF EVIDENCE
5	0.270	Bundle Ammunition Packing	Munitions Packaging	Possible UXO stored for use	22
7	0.270	Bundle Ammunition Packing	Munitions Packaging	Possible UXO stored for use	22
306	0.124	Ammunition Inspection Workshop	Munitions Inspection	Possible UXO stored for use	22
328	2.066	Ammunition Storage Depot	Munitions Storage	Possible UXO stored for use	22
330	2.066	Ammunition Storage Depot	Munitions Storage	Possible UXO stored for use	22
366	0.022	Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	• 22
608	0.008	Ammunition Breakdown Area; SEAD-52	UXO dismantled, removed powder was sold or burned, some stored for disposal	Possible UXO stored for disposal	1.
610	0.012	Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	. 22
612	0.422	Ammunition Breakdown Area/Ammunition Renovation Depot, SEAD-53	UXO dismantled, removed powder sold or burned, some stored for disposal	Possible UXO stored for disposal	1
803	0.064	Special Weapons Magazine	Munitions Storage	Possible UXO stored for use, mothballed?	22
804	0.031	Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	22
813	0.100	Special Weapons Depot	Munitions Storage	Possible UXO stored for use	22
814	0.082	Special Weapons Depot	Munitions Storage	Possible UXO stored for use	22
815	0.254	Special Weapons Depot	Munitions Storage	Possible UXO stored for use	22
816	0.353	Special Weapons Depot	Munitions Storage	Possible UXO stored for use; mothballed?	22
817	0.022	Special Weapons Depot	Munitions Storage	Possible UXO stored for use	22
819	0.190	Weapon Assembly/Special Weapons Depot	Munitions Assembly/Storage	Possible UXO stored for use	22
823	0.002	General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
1594	0.069	Ammunition Storage Pad (Not a building)	Munitions Storage	Possible UXO stored for use	22
2073	0.085	Ammunition Refinish	Munitions Renovation	Possible UXO stored for use	22
2074	0.004	Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use; mothballed?	22
2075	0.003	Ammunition Renovation Shop	Munitions Renovation	Possible UXO stored for use	22
2078	0.172	Process/Condition Ammunition/Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	. 22
2084	0.126	Process/Condition Ammunition/Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	22.

Table 5-3 (Continued)

BUILDING/PARCEL NUMBER	ACRES	DESCRIPTION	PURPOSE	COMMENT	EBS SOURCE C
2085	0.038	Process/Condition Ammunition/Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	22
2109	0.000	Ammunition Demilitarization Depot	Munitions Demilitarization	Possible UXO stored for use	22
2117	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	. 22
2118	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2119	0.259	Storage of Ammunition/General Purpose, Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2120	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2121	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2122	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2123	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2124	0.259	Storage of Ammunition/General Purpose Magazine Depot	Munitions Storage	Possible UXO stored for use	22
2133	0.002	Igloo ·	Munitions Storage	Possible UXO stored for use	22
2132	0.002	Igloo ·	Munitions Storage	Possible UXO stored for use	22
A0101-102	0.056	Igloo	Munitions Storage	Possible UXO stored for use	22
10201, 203, 205, 207, 109, 211, 213, 215, 217	0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
A0202, 204, 206, 208, 210, 212, 214, 216, 218	0.375	Igloo	Munitions Storage	Possible UXO stored for use	22
10301, 303, 305, 307, 109, 311, 313, 315, 317	0.375	Igloo	Munitions Storage	Possible UXO stored for use	22
A0302, 304, 306, 308, 310, 312, 314, 316	0.445	Igico ·	Munitions Storage	Possible UXO stored for use	22
A0401-409	0.375	Igloo	Munitions Storage	Possible UXO stored for use	22
A0501-508	0.334	Igloo	Munitions Storage	Possible UXO stored for use	22
A0601-610	0.417	Igioo	Munitions Storage	Possible UXO stored for use	22
A0702-711	0.459	Igioo	Munitions Storage	Possible UXO stored for use	22
A0801-811	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
A0901-910	0.417	Igloo	Munitions Storage	Possible UXO stored for use	22
A1001-A1012	0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
A1101-A1111	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22

Page 2 of 4

Table 5-3 (Continued)

BUILDING/PARCEL		4.00			EBS SOURCE OF
NUMBER	ACRES	DESCRIPTION	PURPOSE	COMMENT	EVIDENCE
B0101-B0112	0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
B0201-B0211	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22 ·
B0301-B0311	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
B0401-B0411	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
B0501-B0511	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
B0601-B0611	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
B0701-B0711	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
B0801-B0811	0.459	Igloo -	Munitions Storage	Possible UXO stored for use	22
B0901-B0911	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
C0101-C0111	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
C0201-C0211	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
C0301-C0311	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
C0401-C0412	0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
C0501-C0513	0.542	Igloo	Munitions Storage	Possible UXO stored for use	22
C0601-C0611	0.459	Igloo	Munitions Storage	Possible UXO stored for use	22
C0701-C0709	0.375	Igloo :	Munitions Storage	Possible UXO stored for use	22
C0801-C0809	0.375	Igloo	Munitions Storage	Possible UXO stored for use	22
C0901-C0913	0.542	Igloo	Munitions Storage	Possible UXO stored for use	22
D0101-D0113	0.542	Igloo	Munitions Storage	Possible UXO stored for use	22
D0201-D0212	0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
D0301-D0313	0.542	Igloo	Munitions Storage	Possible UXO stored for use	22
D0401-D0413	0.542	Igloo	Munitions Storage	Possible UXO stored for use	22
D0501-D0513	0.542	Igloo	Munitions Storage	Possible UXO stored for use	22
D0601-D0612	.0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
D0701-D0712	0.500	Igloo	Munitions Storage	Possible UXO stored for use	22
D0801-D0812	0.500	Igioo	Munitions Storage	Possible UXO stored for use	22
E0101-E0114	0.774	Igloo	Munitions Storage	Possible UXO stored for use	22
E0201-E0214	0.774	Igloo	Munitions Storage	Possible UXO stored for use	22
E0301-E0313	0.719	Igloo	Munitions Storage	Possible UXO stored for use	22
E0401-E0413	0.719	Igloo	Munitions Storage	Possible UXO stored for use	22
E0501-E0513	0.719	Igloo	Munitions Storage	Possible UXO stored for use	22
E0601-E0611	0.608	Igloo	Munitions Storage	Possible UXO stored for use	. 22
E0701-E0711	0.608	Igloo	Munitions Storage	Possible UXO stored for use	22
E0801-E0811	0.608	Igloo	Munitions Storage	Possible UXO stored for use	22
367	0.084	Existing Deactivation Furnace/Ammunition Demilitarization Depot	Furnace for deactivating munitions	Possible surface or buried UXO	1

Page 3 of 4

Table 5-3 (Continued)

BUILDING/PARCEL NUMBER	ACRES	+ * DESCRIPTION	PURPOSE	COMMENT	EBS SOURCE OF
2207	0.082	Abandoned Solid Waste Incinerator (building no longer exists); SEAD-15	Incinerator for burning mixture of rubbish and garbage, including small munitions	Possible surface or buried UXO	1
S-311	0.267	Abandoned Descrivation Furnace/Ammunition Demilitarization Depot; SEAD-16	Furnace for deactivating munitions	Possible surface or buried UXO	1
S-361	0.039	Ammunition Demo Facility/Ammunition Demilitarization Depot	Munitions Demilitarization	Possible surface or buried UXO	22
Parcel 120Q	3.720	Quality Assurance Test Lab, Location A (West of Building 616); SEAD-44	Tested CS grenades, firing devices, and pyrotechnics	Possible surface or buried UXO	1
Parcel 121Q	. 1.620	Quality Assurance Test Lab, Location B (Brady Road); SEAD-44	Tested CS grenades, firing devices, and pyrotechnics	Possible surface or buried UXO	· 1
2106	- 0.013	Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	22
2107	0.001	Ammunition Renovation Depot	Munitions Renovation	Possible UXO stored for use	22
Parcel 116Q	178.840	Munitions Washout Facility Leach Field (building no longer exists); SEAD-4	Facility for dismantling explosives for disposal	Possible surface or buried UXO	T
Parcel 127Q		Open burning ground: SEAD-23	Burned explosives and projectiles	Possible surface or buried UXO	1
Parcel 128Q	1.880	Abandoned Powder Burning Pit; SEAD-24	Burned black powder, solid propellants, explosive contaminated trash	Possible surface or buried UXO	I
Parcel 127Q		Demolition Area; SEAD-45	Area for exploding munitions . underground	Possible surface or buried UXO	1
Parcel 122Q	8.070	Small arms range; SEAD-46	3½-inch rockets were fired into an earthen barricade at one end of the range	Possible surface or buried UXO	1
Parcel 127Q	1,055.650	Explosive Ordnance Disposal Area; SEAD- 57	Open detonation area and possible disposal of explosives	Possible surface or buried UXO	1
Parcel 115Q	0.814	Skeet Range at Airfield	Firing Range	Potential for UXO fragments	Interview, Visual Inspection
Parcel 119Q	0.660	Small Arms Range near Ovid Road	Firing Range	Potential firing of explosive ordnance	Interview, Visual Inspection
Parcel 125Q	0.250	Small Arms Range in Building 744	Firing Range	Potential for UXO fragments	Interview, Visual Inspection
Parcel 117Q	16.208	Potential Munitions Burial Area	Disposal of munitions	Possible buried UXO	Interview
Parcel 114Q	2.900	Small Arms Range at Airfield	Firing Range	Potential for UXO fragments	Interview, Visual Inspection

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Table 5-4 POTENTIAL RADIONUCLIDE HAZARDS SENECA ARMY DEPOT ACTIVITY

BUILDING/		
PARCEL NUMBER	DESCRIPTION	ACRES
5 -	Bundle Ammunition Packing	0.270
306	Ammunition Inspection Workshop	0.124
612	Ammunition Renovation Workshop	0.422
747	Ammunition Training Facility	0.200
803	Storage	0.064
804	Electronic Maintenance Building	0.031
810	General Warehouse	0.872
815	Shop	0.254
816	Shop	0.353
819	Weapon Assembly	0.190
2073	Ammunition Refinishing	0.085
2084	Process/Condition Ammunition	0.126
A101-A102	Igloo Storage Depot	0.056
A201-A218	Igloo Storage Depot	0.875
A301-A317	Igloo Storage Depot	0.820
A401-A409	Igloo Storage Depot	0.375
A501-508	Igloo Storage Depot	0.334
A601-A610	Igloo Storage Depot	0.417
A0508	Igloo Storage Depot	0.042
A0701	Igloo Storage Depot	0.042
A0706	Igloo Storage Depot	0.042
A0707	Igloo Storage Depot	0.042
A0901	Igloo Storage Depot	0.042
A0905	Igloo Storage Depot	0.042
A01108	Igloo Storage Depot	0.042
A01109	Igloo Storage Depot	0.042
B0109	Igloo Storage Depot	0.042
B0411	Igloo Storage Depot	0.042
B0501	Igloo Storage Depot	0.042
B0602	Igloo Storage Depot	0.042
B0603	Igloo Storage Depot	0.042
B0609	Igloo Storage Depot	0.042
B0705	Igloo Storage Depot	0.042
B0707	Igloo Storage Depot	0.042
B0708	Igloo Storage Depot	0.042
B0709	Igloo Storage Depot	0.042
B0711	Igloo Storage Depot	0.042
B0802	Igloo Storage Depot	0.042
B0804	Igloo Storage Depot	0.042
B0909	Igloo Storage Depot	0.042
C0203	Igloo Storage Depot	0.042
C0303	Igloo Storage Depot	0.042
C0307	Igloo Storage Depot	0.042
C0308	Igloo Storage Depot	0.042

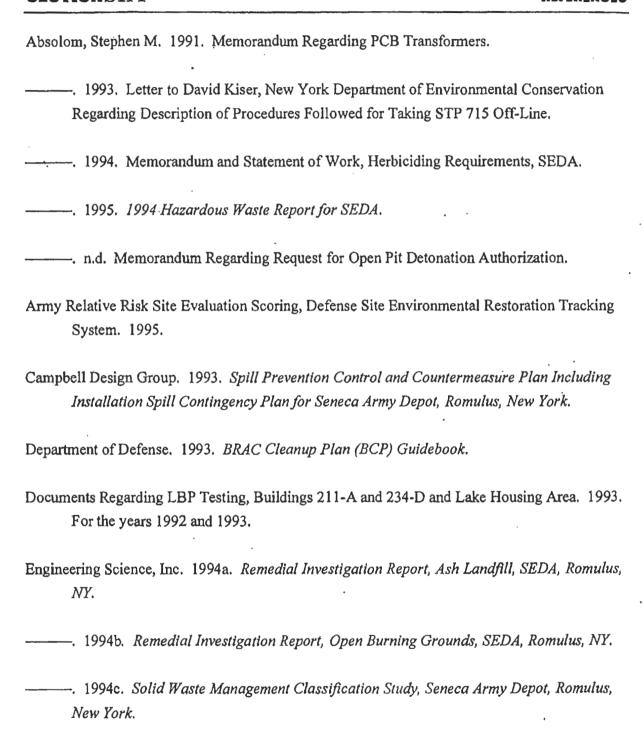
Table 5-4 (Continued)

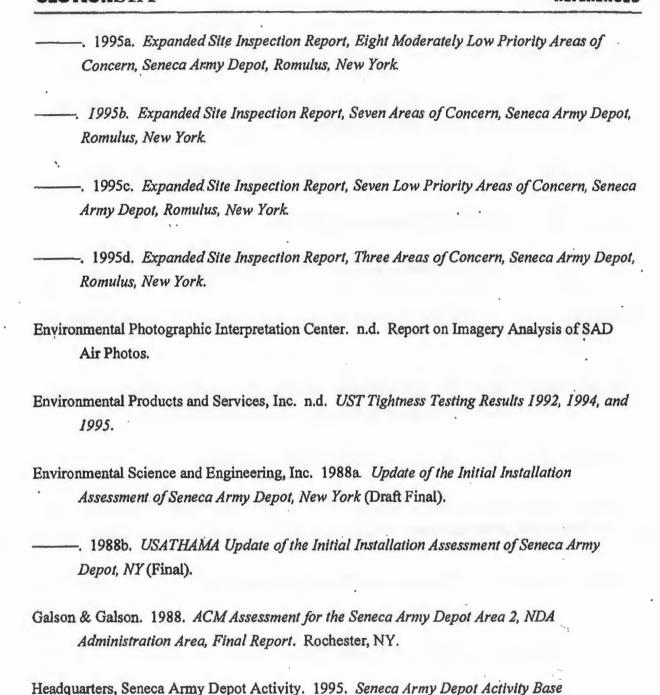
BUILDING/	DECADIONAL	4.000
ARCEL NUMBER	DESCRIPTION	ACRES
C0403	Igloo Storage Depot	0.042
G0405	Igloo Storage Depot	0.042
C0406	Igloo Storage Depot	0.042
C0407	Igloo Storage Depot	0.042
C0408	Igloo Storage Depot	0.042
C0501	Igloo Storage Depot	0.042
C0503	Igloo Storage Depot	0.042
C0504	Igloo Storage Depot	0.042
C0505	Igloo Storage Depot	0.042
C0508	Igloo Storage Depot	0.042
C0510	Igloo Storage Depot	0.042
C0511	Igloo Storage Depot	0.042
C0513	. Igloo Storage Depot	0.042
C0603	Igloo Storage Depot	0.042
C0604	Igloo Storage Depot	0.042
C0605	Igloo Storage Depot	0.042
C0606 .	Igloo Storage Depot	0.042
C0608	Igloo Storage Depot	0.042
C0801	Igloo Storage Depot	0.042
C0803	Igloo Storage Depot	0.042
C0807	Igloo Storage Depot	0.042
C0809	Igloo Storage Depot	0.042
C0902	Igloo Storage Depot	0.042
C0906	Igloo Storage Depot	0.042
C0907	Igloo Storage Depot	0.042
C0908	Igloo Storage Depot	0.042
C0909	Igloo Storage Depot	0.042
D0104	Igloo Storage Depot	0.042
D0105	Igloo Storage Depot	0.042
D0108	Igloo Storage Depot	0.042
D0110	Igloo Storage Depot	0.042
D0113	Igloo Storage Depot	0.042
D0206	Igloo Storage Depot	0.042
D0207	Igloo Storage Depot	0.042
D0305	Igloo Storage Depot	0.042
D0306	Igloo Storage Depot	0.042
D0312	Igloo Storage Depot	0.042
D0401	Igloo Storage Depot	0.042
D0406	· Igloo Storage Depot	0.042
D0407	Igloo Storage Depot	0.042
D0601	Igloo Storage Depot	0.042
D0604	Igloo Storage Depot	0.042
D0607	Igloo Storage Depot	0.042
D0704	Igloo Storage Depot	0.042
D0705	Igloo Storage Depot	0.042

Table 5-4 (Continued)

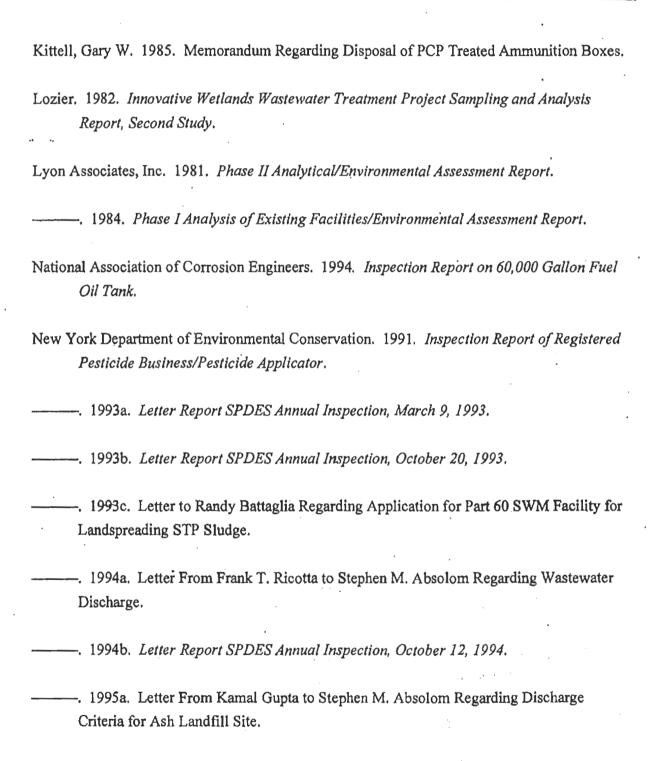
BUILDING/		
PARCEL NUMBER	DESCRIPTION	ACRES
D0711	Igloo Storage Depot	0.042
D0712	Igloo Storage Depot	0.042
D0801	Igloo Storage Depot	0.042
D0805	Igloo Storage Depot	0.042
E0103	Igloo Storage Depot	0.055
E0105	Igloo Storage Depot	0.055
E0112	Igloo Storage Depot	0.055
E0211	Igloo Storage Depot	0,055
E0301	Igloo Storage Depot	0.055
E0302	Igloo Storage Depot	0.055
E0303	Igloo Storage Depot	0.055
E0312	Igloo Storage Depot	0.055
E0402	· Igloo Storage Depot	0.055
E0410	Igloo Storage Depot	0.055
E0411	Igloo Storage Depot	0.055
E0413	Igloo Storage Depot	0.055
E0504	Igioo Storage Depot	0.055
E0506	Igloo Storage Depot	0.055
E0512	Igloo Storage Depot	0.055
E0602	Igloo Storage Depot	0.055
E0604	Igloo Storage Depot	0.055
E0609	Igloo Storage Depot	0.055
E0610	Igloo Storage Depot	0.055
E0702	Igloo Storage Depot	0.055
E0706	· Igloo Storage Depot	0.055
E0801-E0811	Igloo Storage Depot	0.608
118Q ·	Pitchblende Storage Area	72.790
123Q	Special Weapons Area	334.790
124Q	Special Weapons Area	15.790
126Q	. Special Weapons Area	3.640

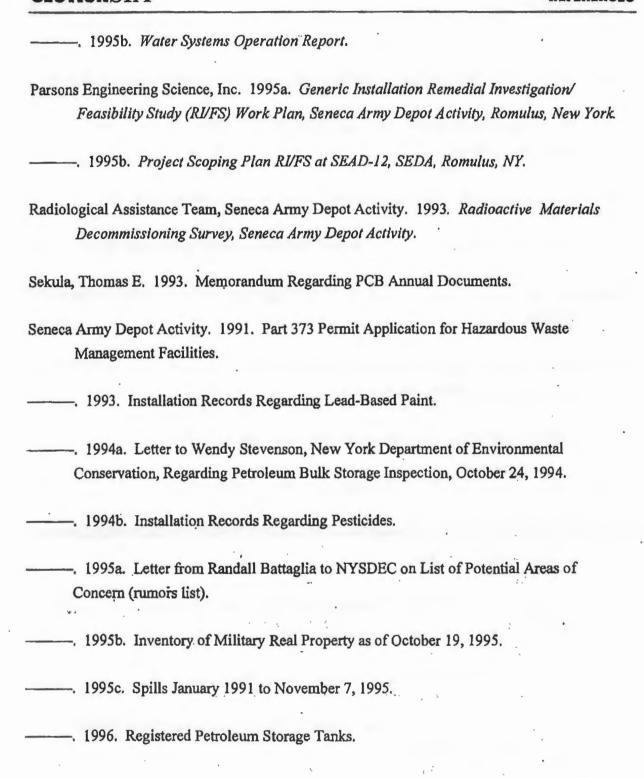
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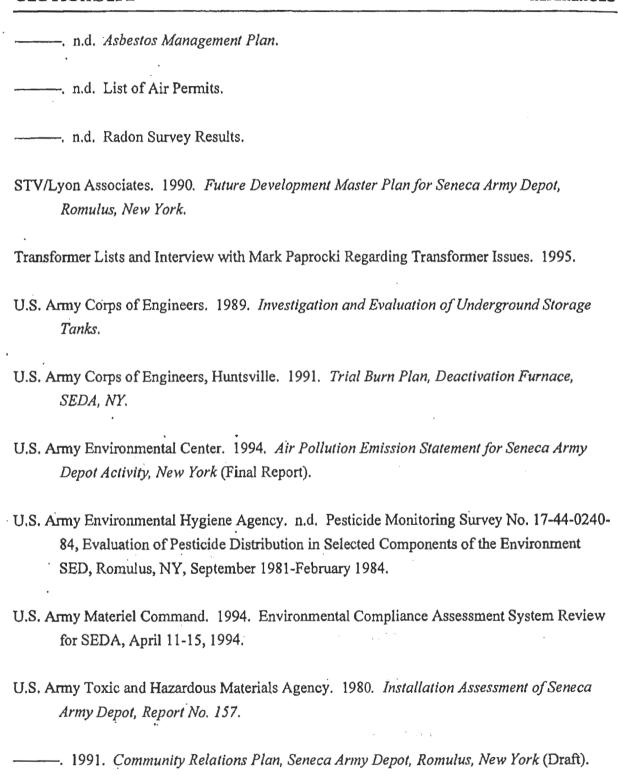




Realignment and Closure 1995 Implementation Plan.







U.S. Environmental Protection Agency, Region II, U.S. Department of the Army, and New York State Department of Environmental Conservation. 1993. Federal Facility Agreement Under CERCLA Section 120. Docket Number: II-CERCLA-FFA-00202.

APPENDIX A COMMENT RESPONSE PACKAGE

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RESPONSES TO COMMENTS ON THE SENECA ARMY DEPOT ACTIVITY, NEW YORK DRAFT ENVIRONMENTAL BASELINE SURVEY REPORT DATED MARCH 15, 1996

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APPENDIX A COMMENT RESPONSE PACKAGE

Appendix A presents the comments Woodward-Clyde Federal Services received on the Seneca Army Depot Activity, New York, Draft Environmental Baseline Survey Report, dated March 15, 1996, and the Draft Final Environmental Baseline Survey Report, dated October 30, 1996, and the responses to these comments.

The comments have been typed verbatim and may include misspellings, grammatical errors, format inconsistencies, internal agency numbering systems, etc. Each comment and response has been sequentially numbered (A-1, A-2, A-3, etc. for comments on the draft report and B-1, B-2, B-3, etc., for comments on the draft final report). This numbering system is used to reference previous comments or a response that may clarify a previously addressed issue.

The comments have been organized by agency and are separated by sections (A.1, A.2, A.3, etc., for comments on the draft report and B.1, B.2, B.3, etc., for comments on the draft final report). The comments are presented in the following order:

- Installation
- U.S. Environmental Protection Agency
- State of New York
- U.S. Army Materiel Command
- U.S. Army Environmental Center
- U.S. Army Corps of Engineers
- Other Agencies and Organizations

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A.1 RESPONSES TO INSTALLATION COMMENTS ON THE DRAFT EBS REPORT

A.1.1 RESPONSES TO SENECA ARMY DEPOT ACTIVITY COMMENTS ON THE DRAFT EBS REPORT

ENTITY:

Seneca Army Depot Activity

INDIVIDUAL:

Mr. Stephen Absolom

TITLE:

BRAC Environmental Coordinator

DATE:

June 20, 1996

Comment A-1:

A marked copy of portions of the Draft EBS Report was submitted as comments.

Response:

These comments are either editorial in nature and/or provide additional information. Where appropriate, they have been incorporated into the Draft Final EBS Report.

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A.2 RESPONSES TO U.S. ENVIRONMENTAL PROTECTION AGENCY COMMENTS ON THE DRAFT EBS REPORT

ENTITY:

U.S. Environmental Protection Agency, Region II

INDIVIDUAL:

Carla Struble, P.E.

TITLE:

Federal Facilities Section

DATE:

July 15, 1996

Comment A-2:

Throughout the document, when referring to BRAC parcel numbers, building numbers, tank numbers, etc. the corresponding SEAD numbers should also be given. For years we have been identifying areas at SEDA in terms of SWMUs and SEAD numbers. This enables us to refer to the SWMU Classification Report for information regarding past activities at an area.

Response:

SEAD numbers have been provided where applicable, as requested.

Comment A-3:

CERFA Parcel Map - Figure 5.1

Parcel qualifiers don't seem to be shown in all cases. Most notably Parcel 3, igloos are qualified for UXOs per Table 5.2, don't show on map. All qualified parcels listed in Table 5.2 should be included on Figure 5.1.

Response:

All qualified parcels and buildings have been listed on Table 5-1b in the Draft Final EBS Report. The parcels are shown on Figure 5-1 with their respective labels. The large number of buildings precludes showing all building labels on Figure 5-1. Therefore, building labels have

been included in Table 5-1b and the building locations can be identified on Figure 5-1 referring to the building number. The language in the text will be clarified.

Comment A-4:

Seneca Lake should be labeled and the shoreline delineated on the map.

Response:

The map has been revised accordingly.

Comment A-5:

The CERFA Parcel Map should show and label Reeder Creek, Kendia Creek, Indian Creek, etc., and the 72 SEADs identified in the Solid Waste Management Unit (SWMU) Classification Report for the Seneca Army Depot Activity finalized by the Army in September 1994. To help expedite EPA's review and concurrence on real property at SEDA, an updated Plate 1-1 "Solid Waste Management Unit Locations" from the SWMU Classification Report is desirable. This map should preferably be a transparent overlay which could be placed over the CERFA Parcel Map and the LRA's Reuse Map.

Response:

Mapping correlation and overlays are outside the scope of work for the preparation of the EBS.

Comment A-6:

Category 1: the definition deviates from the CERFA definition of uncontaminated property by including property that has been used to store less than reportable quantities of hazardous substances (40 CFR 302.4) or 600 or fewer gallons of petroleum. We will consider whether or not parcels which the Army has identified as Category 1 based on this definition qualify as uncontaminated per CERFA on a case by case basis.

Response:

The U.S. Amy considers the inclusion of less than reportable quantities of hazardous substances or 600 or fewer gallons of petroleum as being consistent with CERFA and OSWER Directive 9345.0-09, EPA 540/F-94/32, PB 94-96 3249, April 19, 1994.

Comment A-7:

SECTION ONE: Introduction

Page 1-4 Definitions of Terms:

Category 1: the definition deviates from the CERFA definition of uncontaminated property by including property that has been used to store less than reportable quantities of hazardous substances (40 CFR 302.4) or 600 or fewer gallons of petroleum. We will consider whether or not parcels which the Army has identified as Category 1 based on this definition qualify as uncontaminated per CERFA on a case by case basis.

Response:

See the response to Comment A-6.

Comment A-8:

Page 1-4. Suitable to Transfer definition...."subject to the non-CERCLA contamination qualifiers" needs explanation. Does this mean that these parcels are "not" suitable to transfer until contamination is addressed? If so, parcels should not be designated as suitable to transfer. Or does this mean parcels are suitable to transfer with appropriate restrictions? If so, restrictions should be explicitly specified or parcels should not be designated as suitable to transfer. Or does this mean something else?

Response:

The EBS report documents the presence or possible presence of LBP, ACM, pesticides, radon, PCB-containing equipment, radionuclides, and UXO and ordnance fragments as non-CERCLA environmental issues. Their presence, however, does not necessarily preclude the U.S. Army from transferring the property. Prior to transfer or lease, a Finding of Suitability to Transfer or Lease (FOST or FOSL) will be prepared to determine whether, and how, to proceed.

Comment A-9:

Page 1-5 Qualified Parcels definition: Explanation as to how qualified parcels may/may not be suitable to transfer is needed. See comment above regarding page 1-4.

Response:

See the response to Comment A-8.

Comment A-10:

SECTION THREE: Property Characterization

Page 3-5 Table - MAIN DEPOT MUNITIONS STORAGE: a) For each facility and igloo listed, it should be noted whether or not munitions were stored here. If so, specifically what types of munitions are/were they, for how long they were stored, whether the munitions were stored for eventual use or demilitarization, destruction and disposal, whether or not a release had occurred. b) If not, can the Army certify that no releases occurred? c) When describing the function of Facility 2202, "STR SHEN GP INS" needs to be explained.

Response:

- a) The requested information was not obtainable from a review of readily available documents and records. Information on the type of munitions, the length of storage, or the eventual use is not believed pertinent to the determination of the environmental condition of the property. All readily available information on past releases has been documented in the EBS report.
- b) The EBS report documented all of the known releases at SEDA.
- c) The text has been clarified as requested.

Comment A-11:

Page 3-5. Munitions Storage: Munitions disposal areas should be differentiated from munitions storage areas.

Response:

We concur. Munitions disposal areas have been added to this section.

Comment A-12:

Page 3-11: The term "Training Ranges" is used, but not defined. A detailed explanation should be provided as to the type to training activities that took place at each area and where they are located.

Response:

The text has been revised accordingly.

Comment A-13:

Page 3-11: A detailed explanation should be provided to describe the weapons stored at SEDA that were considered to be "Special Weapons", e.g., type of weapons, length of storage, whether for disposal or release had occurred.

Response:

Due to the classified nature of the Special Weapons Mission at SEDA, detailed information is not available. General information regarding the radionuclides and general processes is being made available and has been incorporated into the Draft Final EBS Report.

Comment A-14:

Page 3-11: With regard to Building 373, what is meant by the "COV TRAIN AREA"?

Response:

This means "Covered Training Area"; the text has been revised accordingly.

Comment A-15:

Page 3-13 Table - SPECIAL WEAPONS AREA FACILITIES: a) For each building and igloo listed, it should be noted whether or not special weapons were stored there, If so, what types of weapons specifically are/were they, the time period for which they were stored, whether the weapons were stored for eventual use or demilitarization, destruction and disposal, whether or not a release has occurred. b) If not, the Army should certify that no releases occurred.

Response:

- a) See the response to Comment A-13.
- b) The records search and interviews conducted during the EBS documented all of the known releases at SEDA.

Comment A-16:

Page 3-22 Facility Support Activities, Hazardous Materials/Waste Management: From the descriptions in the text, almost all of areas described in this section over next few pages, with possible exception of family housing, should not be designated Category 1. If SEDA is claiming any of these as Category 1, justification should be provided.

Response:

Most of these areas are <u>not</u> in Category 1 parcels. Those that are in Category 1 parcels involve non-CERCLA related environmental, hazard, and safety issues and have been qualified accordingly.

Comment A-17:

SECTION 4.3 - Sources of Potential Contamination From Adjacent or Surrounding Property: A location map should be developed to supplement this section which shows SEDA and all potential sources of contaminated described in the text and in the tables of this section. The directions of groundwater flow/groundwater elevations should also be provided. This map should be drawn to scale and preferably larger than 8-1/2 inches by 11 inches.

Response:

An additional figure addressing adjacent property issues has been included in Section Four. The general direction of groundwater flow has been indicated in this figure.

Comment A-18:

Page 4.6 Non CERCLA Related Environmental, Hazard, and Safety Issues: Need to reconcile qualified acreage with tables (e.g., Exec Sum, letter report). Qualified acreage discussed here (P 4.6 et al) and presented in tables does not match.

Response:

Discrepancies regarding qualified acreages have been reconciled.

Comment A-19:

- a) Table 4.1. Explain basis for priority designations, e.g., DOD Relative Risk Model or other.
- b) Table includes "moderately low" designation not seen before in DOD Relative Risk Model.

Response:

- a) SWMU identification and classification were conducted in accordance with the decision process presented in the IAG between USACE, EPA, Region II, and NYSDEC.
- b) This designation was taken from the SWMU classification report.

Comment A-20:

SECTION FIVE

Table 5-1, Table 5-2 and text: a) Are Parcels 6, 13, 14, 15, etc. missing or non-existent? b) The rationale for numbering the parcels should be explained.

Response:

- a) These parcels are non-existent.
- b) As a result of the mid-EBS meeting between the BEC, GPM, and Woodward-Clyde, some parcel designations were changed and some parcels were grouped with others. The parcels were not renumbered to expedite the production of the Draft EBS Report. All parcels have been renumbered sequentially without gaps for the Draft Final EBS Report.

Comment A-21:

Table 5-2: All qualified parcels need to be shown on Figure 5.1. See comments above.

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Response:

See the response to Comment A-3.

Comment A-22:

Page 5-43: a) The discussion/ definitions of qualified parcels needs to be consistent with pages 4.6 thru 4.11, e.g., asbestos discussion should include the "A" designator for areas of known asbestos problems that have not been fully remedied, b) PCB qualified parcels should be discussed.

Response:

- a) We concur. Additional information has been added to Section 5.1.7.
- b) A summary of PCB qualified parcels has been added to Section Five.

Comment A-23:

Page 5-44: It is strongly recommended that, here and throughout the document and related tables and figures, the qualification of known or potential UXOs be further differentiated to distinguish areas of storage from areas of disposal. See comments above pertaining to Figure 5.1, page 3-3 and page 3-5.

Response:

We concur. Areas of munitions storage have been differentiated from munitions disposal areas throughout the document and related tables.

Comment A-24:

Parcel 1(1)

AP-2 AST: a) SEDA should document or otherwise demonstrate that contamination from the leaking petroleum product has not migrated to Parcel 1(1). b) What steps have been taken to repair the leaking tank and ensure that no releases will occur in the future?

Response:

- a) This site is off post; and no evidence was observed during the 1995 EBS records review or visual inspection of this adjacent property that any product has ever migrated to SEDA. From a groundwater flow perspective, it appears that Parcel 1(1) is in a crossgradient relationship to this source area.
- b) It is not known if any actions have been taken. It is not the U.S. Army's responsibility to implement corrective actions on adjacent property not owned by the U.S. Army.

Comment A-25:

AP-3 Trash Dump: SEDA should document or otherwise demonstrate that the trash did not include any hazardous substances or petroleum products and that no migration occurred.

Response:

See the response to Comment A-24.

Comment A-26:

Parcel 2(1)

a) The spill records in Appendix A are dated from the late 1980s through the 1990s. It is possible that spills have occurred since 1940 but no documentation was kept. b) A detailed history of the Airfield activities dating from SEDA's inception until the present should be provided. c) A detailed map should also be provided which labels the aircraft parking areas, outdoor service areas, wash rack, tie down areas, etc. d) During the aircraft pre-flight check, what was done with the fuel that had been visually examined and what was the Army's practice if it had been determined that the fuel was of poor quality? e) Aerial photographs which include the airfield should be provided.

Response:

- a) Comment noted.
- b) Additional information regarding the airfield activities has been added to Section 3.3.
- c) Additional labeling of the airfield on Figure 5-1 has been added.
- d) Information regarding the disposal of poor quality fuel has been added to Section 3.3.

e) We respectfully decline to provide aerial photographs. The EBS format selected in consultation with the U.S. Army does not include provision of aerial photographs. Selected aerial photos were reviewed and evaluated for the EBS.

Comment A-27:

Parcel 65(2)PS(P)/HS(P): SEDA should prove that Parcel 2(1) has not been contaminated by migration of hazardous substances or petroleum products from this parcel.

Response:

Subsequent to the EBS field investigation, SEDA personnel investigated this site and found that the suspected UST was actually part of the old septic system and that the drums contained water. The drums were removed. Based on this new information, this parcel has been deleted. However, the area of the firing range remains qualified for UXO and has been designated as Category 1.

Comment A-28:

Section 5.1.7 Qualified Parcels: Parcel 136QX is not described in the text of this section.

Response:

The text has been revised to include a description of this parcel.

Comment A-29:

Parcel 67(6)PS/PR/HR: SEDA should document or otherwise demonstrate that Parcel 2(1) has not been contaminated by migration of hazardous substances or petroleum products from this parcel.

Response:

At present, the most severe contamination identified in Parcel 67(6) is associated with SEAD-4. From a groundwater flow perspective, this SWMU is located at the upgradient end of this parcel. Parcel 67(6) will be investigated as part of the ongoing investigations into SEAD-4 and through additional work at other localities identified in the EBS report. These investigations

will include groundwater sampling. If groundwater contamination is discovered at SEAD-4, its extent will be modeled at that time.

Comment A-30:

Parcel 3(1)

AP-1 Seneca County Highway Department yard: SEDA should document or otherwise demonstrate that contamination from leaking petroleum product has not migrated to Parcel 3(1).

Response:

This site is off post, and no evidence was observed during the 1995 EBS records review or visual inspection of this adjacent property to indicate that any product has ever migrated to SEDA. Furthermore, the problems at the source area can be characterized as poor housekeeping, and although there appears to have been releases, they also appeared to be minor in extent.

Comment A-31:

Parcel 4(1)

Parcel 26(2)PS: Although there has been no "documented" release associated with these USTs and ASTs, can SEDA demonstrate that contamination from leaking petroleum product has not migrated to Parcel 4(1)?

Response:

Since there is no documented evidence of a release in parcel 26(2)PS, there is no basis for suspecting a migration to the adjacent Parcel 4(1).

Comment A-32:

APPENDIX A - Database Search Report

Any property at or adjacent to a spill, leak, release etc. with the Remedial Status: "Case Open" cannot be claimed Category 1. Additional documentation should be provided to determine the appropriate category.

Response:

The available information for this parcel indicates that the designation as Category 1 is appropriate. Areas including open cases will be investigated and if potential impacts to adjacent areas are identified, the issue will be addressed at that time.

Comment A-33:

Spill:Records:

Page #15: The records show that 1700 gallons of #2 Fuel Oil leaked at the Airfield Building 2305. The records also show that the case is closed with the cleanup complete. The Army should provide documentation of the spill investigation, determination of extent of contamination to groundwater, what measures were taken to cleanup the affected media, and what criteria were used to determine that the case should be closed.

Response:

Additional information provided after the EBS field investigation indicated that the database information is incorrect and that this incident was the 1,900-gallon fuel oil release from the LUST at Building 138, which was the basis for Parcel 60(5)PR. The U.S. Army is still attempting to obtain records from Fort Drum regarding this incident. If the records are not found, an additional investigation will be conducted.

Comment A-34:

Page #17 through Page #27 lists State Record Details of Spills, Lusts and Cleanups but no locations are given. None of the property on or adjacent to these incidences should be classified by the Army as Category 1.

Response:

Additional research now permits the mapping of the locations of these incidents. A revised map showing all of these locations has been included in the Draft Final EBS Report. It appears that none of these locations is on or adjacent to a Category 1 parcel.

Comment A-35:

USTS: The majority of the tanks state that no leak monitoring system is present. What assurance can the Army provide that these tanks have not leaked? Any appropriate documentation should be provided.

Response:

At present, the U.S. Army is in compliance with NYSDEC regulations regarding USTs and ASTs. If any leakage is detected as tanks are removed, appropriate action will be taken at that time.

Comment A-36:

APPENDIX D

Potential Asbestos Hazards - For each building where asbestos is present, it is important for EPA to know the condition of the asbestos (i.e. flaking, airborne, intact, etc.). This information should be provided in this table.

Response:

Asbestos surveys are scheduled, and the condition of any asbestos-containing materials will be documented once the surveys are completed.

Comment A-37:

Page D-3 and D-4 are illegible and should be resubmitted in legible form.

Response:

Legible copies of these tables have been provided in the Draft Final EBS Report.

Comment A-38:

Potential Radionuclide Hazards - this table should be expanded to include information on what was stored (weapons for active use, for demolition, ore, etc.) and the condition of the materials stored (unserviceable, in need for repair, obsolete, etc.). In addition to the storage areas, the

processes taking place in the shop, training facility, IDS/cctv section, process/condition ammo should be elaborated upon.

Response:

See the response to Comment A-13.

Comment A-39:

Potential UXO Hazards - EPA's November 8, 1995 Military Munitions Rule (page 56471) states that the Services also assign "condition codes" to ammunition. If available, this information should be provided in this table for the munitions stored in the buildings/parcels/igloos. If not available, can the Army certify that no releases occurred or provide a description of the condition of the munitions stored?

Response:

The Munitions Rule is not final. Furthermore, the "condition code" does not provide information regarding release. It is the U.S. Army's Safety Policy (AR 385.84) to decontaminant facilities when the potential for explosive contamination may exist. Moreover, all readily available information on past releases has been documented in the EBS report.

Comment A-40:

Potential Lead Based Paint Hazards - For each building where lead based paint could be present, it is important for EPA to know the condition of the paint (i.e. chipping, flaking, intact, etc.). This information should be provided in this table.

Response:

LBP surveys are scheduled, and the condition of any LBP will be documented once the surveys are completed.

A.3 RESPONSES TO STATE COMMENTS ON THE DRAFT EBS REPORT

A.3.1 RESPONSES TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION COMMENTS ON THE DRAFT EBS REPORT

ENTITY:

New York State Department of Environmental Conservation

INDIVIDUAL:

Kamal Gupta

TITLE:

Bureau of Eastern Remedial Action, Division of Environmental

Remediation

DATE:

July 12, 1996

General Comments

Comment A-41:

1. Under the CERCLA program significant work of identifying waste disposal areas has been done and the results are available in the SWMU Classification Report, Site Investigation Reports and several RI/FS reports and work plans. A total of 48 Areas of Concerns (AOCs) were identified and these are listed in Table 4-1 of the EBS report, although the area encompassed by each AOC is not indicated; these AOCs also are not shown on figure 5.1 CERFA parcel map. Our review of two operable units consisting of five AOCs, Fire Training areas and Radioactive Waste sites indicate that the EBS classification has not included the entire areas of these operable units in Categories five or six. It is therefore possible that there may be other AOCs, which may have been incorrectly classified or their entire area may not have been included in the classification. In order to ensure that all areas of these sites are included in categories five, six or seven, Woodward-Clyde must show all 48 AOCs including their ground water plume on the CERFA Parcel Map and include the area of each AOC in Table 4-1 of the report.

Response:

We respectfully do not concur with the comment. Woodward-Clyde has made every effort to correlate existing AOCs with non-Category 1 CERFA parcels. We respectfully decline to add the 48 AOCs on the CERFA map because we believe that this will detract from the purpose of the map, which is to show the environmental condition of property. SWMU maps are available from SEDA.

Comment A-42:

2. Woodward-Clyde has summarized its investigation results in section 4.0 of the report, which were used in classifying each parcel of land. We are sure that Woodward-Clyde must have taken all the precautions that it has not missed or incorrectly classified any area. But at the same time without any reference of parcel number and label to identify each area, a reviewer of this report may not be able to verify the correct classification. We therefore strongly recommend that each area which has been listed in this section and Appendices D and E should also be identified by its parcel number and label.

Response:

The parcel number and label have been added to the tables in Section Four and to the tables in Appendices D and E.

Comment A-43:

3. Sampling and Analysis Recommendations: It appears that sampling and analysis have been recommended to verify whether or not contaminations exist at certain land parcel. If so, please provide a site plan of each area including its geology and hydrogeology, locations of sampling points and criteria used for the limited analysis. The results should be used for verification only, and not for classifying category three parcels (based on reported concentration).

Response:

This comment will be addressed in the Final SAR Report.

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Specific Comments

Comment A-44:

- 1. Section 1.4 Limitations: In a document as significant as this, a high level of detail is appropriate.
 - a) This section states that a "statistically representative number of buildings" were inspected, how was a "random sample of 10 percent" determined to be statistically representative?
 - b) What method was used to assure randomness in the selection of the buildings to be inspected?
 - c) The section further states that buildings were grouped by "like usage and design". Was the 10 percent sample taken from the complete, unsorted, population of buildings at the Depot or from the like usage subsets?

Response:

- a) The text has been revised to state that "approximately 10 percent of the buildings were surveyed."
- b) A computer-based generation process was used to randomly select buildings to be inspected.
- c) The 10 percent sample was drawn from each of the like usage subsets.

Comment A-45:

2. Section 1.5.1 - Demographics: It is surprising to find 1980 census data and 1990 census projections quoted in a document written in 1996. Much more recent census data are available. According to the 1990 census there were 33,683 persons residing in Seneca County. The projected population for this county in 1995 in 32,593, representing a reduction of 3.2%.

Up-to-date and comprehensive census data is available from the United States Department of Commerce Bureau of the Census homepage located at www.census.gov on the Internet.

Response:

The 1990 census data has been incorporated into the Draft Final EBS Report.

Comment A-46:

Section 2.1.1 - Existing Documents: The table in this section which lists the documents
reviewed by the consultants for this investigation lists the "Seneca Army Depot Activity
Base Realignment and Closure 1995 Implementation Plan", (ID #SD2037) twice.

Response:

The second listing of this document has been deleted.

Comment A-47:

4. Section 2.1.2 - Federal, State, and Local Government Regulatory Records: This section states that a "remedial action is pending" at the Ash Landfill. It is true that a groundwater migration control remedy has yet to be selected. However, no mention of the interim remedial measure for contaminated soils at the Ash Landfill, which was completed in June of 1995, is made. It seems appropriate to mention such a significant remedial accomplishment somewhere in this document.

Response: .

Additional discussion has been added to Section 2.1.2 and elsewhere in the report where the Ash Landfill OU is discussed.

Comment A-48:

5. Section 2.1.3 - Aerial Photographs: It is stated that analysis of aerial photographs indicated two areas (A and B) that "warranted in-depth discussion". This is the first and last time Areas A and B are mentioned in this document. Furthermore, no maps are included to indicate where Areas A and B are located. Please provide clarification.

Response:

Clarification has been provided in the Draft Final EBS Report.

Comment A-49:

- 6. Section 3.2 Installation History and Mission:
 - a) This section states that the facility now known as Seneca Army Depot once occupied 12,940 acres of land in Seneca County. It is later stated that Seneca Army Depot now encompasses 10,634 acres, but there is no explanation for the difference of 2,306 acres of land.
 - b) Additionally, the 1993 Interagency Agreement notes that acreage of Seneca Army Depot to be 10,587. Please provide an explanation for these discrepancies and an accurate estimate of the current total acreage of the Depot.

Response:

- a) At least two documents indicate that the original acquisition was approximately 10,600 acres. This number has been used in the Draft Final EBS Report.
- b) As many as four different estimates of the size of SEDA were found in the documents reviewed. Presently, the most accurate estimate of the size of SEDA appears to be 10,634 acres. This number is taken from the 1995 Base Realignment and Closure Plan prepared by SEDA.

Comment A-50:

7. Section 3.4.5 - Groundwater Monitoring Wells: The report has made a significant error in stating that there are "twenty-nine groundwater monitoring wells" in place at Seneca Army Depot. There are approximately 40 groundwater monitoring wells in place at the Open Burning Grounds. Approximately 60 groundwater monitoring wells were installed during the investigation of the Ash Landfill. The consultant cites a 1991 Part 373 Permit Application for Hazardous Waste Management Facilities at Seneca Army Depot as the source for the count of twenty-nine monitoring wells. The consultant did not use current information in the preparation of this document.

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Response:

We concur. An outdated source was used in preparing the section on groundwater monitoring wells. At present, over 100 monitoring wells have been installed at SEDA. The text has been revised accordingly.

Comment A-51:

8. Section 4.1 - Previously Identified Sources of Potential Contamination: As mentioned in comment number 4, the source control interim remedial measure for contaminated soils at the Ash Landfill was completed in June 1995 approximately eight months before this report was written. This section states that "an IRM is in progress to clean the source of contamination" at the Ash Landfill. Please correct this misstatement.

Response:

The text has been revised to clarify the current status of the Ash Landfill.

Comment A-52:

- 9. 4.2 Potential Contamination Areas Identified During the EBS Investigation:
 - i. a) The table of Potential Contamination Areas should also include BRAC parcel Number, Label, area and location coordinates so that readers could correlate each area on a CERFA parcel map.
 b) Please also show these areas on a CERFA parcel map.
 - ii. As the name implies, these areas are potentially contaminated areas and therefore should be confirmed by sampling whether or not contamination exists. A review of Sampling and Analysis Recommendations does not indicate that all areas are proposed for sampling.
 - iii. Page 4-3. a) Please correct the first sentence which states "NYSDEC has compiled a list...". This list was compiled by the Army, not by the NYSDEC. b) Further a review of Appendix E, indicate that many potential areas of concern listed in the Army's letter of April 11, 1995 are not included in the table of Potential Contamination Areas. We don't believe that it is sufficient to eliminate a potentially contaminated areas based on the Woodward-Clyde's interviews of employees who may (emphasis added) have

knowledge of past activities. Unless the Army provides us sufficient justification, all the areas included in the Army's list should also be included in the table of Potential Contamination Areas.

iv. A potentially contaminated area should not be released for transfer or lease until that area is found to meet all the requirements of release.

Response:

- i,a) The BRAC parcel number and label have been added to this table. Area and coordinates are not included since this information is in Table 5-1.
- i.b) These areas are identified as parcels on the CERFA Map, Figure 5-1.
- ii) This comment will be addressed in the Final SAR Report.
- iii.a) The text has been corrected.
- iii.b) We do not concur. It is the position of the U.S. Army that there is no longer sufficient justification to continue investigating these rumored sites as potential areas of concern. The U.S. Army believes that reasonable efforts have been expended, including interviews, records review, and visual inspections, to conclude that no additional investigation is warranted. iv) Comment noted.

Section 5.1.2 - Category 2 Parcels:

Comment A-53:

10. Parcel Number and Label 23(2)HS: In the discussion, it is stated that the compound STB (super topical bleach) is stored in Building 333. We are unfamiliar with STB, and could the consultant provide an explanation of the uses of this compound and a material safety data sheet.

Response:

STP is a concentrated bleach that is used to wash off chemical and biological contamination. This material was stored, but not used at SEDA. The U.S. Army will provide a MSDS on this substance.

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Comment A-54:

11. Parcel Number and Label 65(2) PS(P)/HS(P): The text correctly designates this parcel as category 6, but figure 5-1 and the parcel label incorrectly shows it as category 2. Please correct this discrepancy.

Response:

See the response to Comment A-27.

Section 5.1.3 - Category 3 Parcels:

Comment A-55:

12. Parcel Number and Label 51(3)HR: Please correct CERFA map location for parcel 51(3)HR. It should be 23, 20 instead of 23, 2.

Response:

We concur. However, because of an incorrect scale used in the Draft EBS Report, all map coordinates will be different in the Draft Final EBS Report.

Comment A-56:

13. Parcel Number and Label 114(3)PS/PR/HS: It is reported that large quantities of petroleum products were spilled in this building. The extent of the impact from these spills has not been determined. We, therefore, do not agree with a category three designation. This parcel should be designated category six.

Response:

This facility is an auto hobby shop where only automobiles were serviced. The description of large quantities in the Draft EBS Report overstated the problem, which is better described as numerous small quantity spills. Furthermore, procedures were in place to make sure the spills were cleaned up as they occurred. When this facility was closed and the hydraulic lifts removed, sampling of interior surfaces was also conducted. This additional explanatory information further supports designation as Category 3 and has been added to the text.

5.1.4 Category 5 Parcels:

Comment A-57:

14. Parcel Number and Label 61(5) HR: An operable unit consisting of Sead-12A, 12-B, 48, 63 and the open area north of igloos within "Q" area has been formed and an RI/FS is in progress. Since historical information is classified, it was believed that disposal of classified equipment and waste might have taken place within the open area and, therefore, the Army included the open area into the scope of the RI/FS. The EBS classification has incorrectly classified this open area as category one, but should be changed to category six.

Response:

We concur. Based on information made available after the 1995 EBS field investigation, a parcel corresponding with the area covered in the proposed RI/FS workplan for SEAD-12 has been created.

Comment A-58:

15. Table 5-1 - CERFA Parcel Map: This map is difficult to read. In its black and white form the shadings of several of the different categories are indistinguishable from each other. Perhaps hatch marks would aid in distinguishing the various categories.

Response:

A color coded CERFA map was provided after the initial release of the Draft EBS Report and will also be included with the Draft Final EBS Report.

Section 5.1.5 - Category 6 Parcels:

Comment A-59:

16. Parcel Number and Label 66(6)PR: It is reported that a spill of fuel oil occurred in this area, but there are no records to indicate that the spill was completely cleaned. No information is available indicating whether or not the fuel oil has migrated to the groundwater. In the absence of any information, the groundwater flow direction should

be determined and the parcel of land which is downgradient to the spill area should also be classified as category six.

Response:

We do not concur. At present there is no evidence that the groundwater has been impacted by this spill. Groundwater will be investigated as part of the planned remedial activities at this parcel. If groundwater contamination is detected, then the issue of migration will be addressed.

Comment A-60:

17. Parcel Number and Label 90(6) HR: It appears that the boundaries of this parcel are limited to the area covered by the fire training pad. Since groundwater is impacted by BTEX and chlorinated solvents, the boundaries of this parcel should also include the area occupied by the groundwater plume.

Response:

Based on information made available after the EBS field investigation, we concur with this comment. The parcel has been expanded to correspond with the boundaries as shown in the RIFS Workplan for this SWMU.

Comment A-61:

- 18. Appendix D, Table Potential Radionuclide Hazards at Seneca Army Depot:
 - a) Two storage igloo, B0709 and C0308, are listed in this table but do not appear on the map in Figure 5-1. b) Storage igloo E0312 is listed twice in this table. c) Furthermore, the SEAD-48 pitchblende storage igloos (E0802-E8011) which has already been determined to be impacted by radionuclide contamination are not included in this table. Please correct these errors.

Response:

- a) Figure 5-1 has been corrected to show storage igloos B0709 and C0308.
- b) The second listing of this igloo has been deleted.
- All of Parcel 57(5), including these igloos, has been qualified for radionuclides.

A.4 RESPONSES TO U.S. ARMY MATERIEL COMMAND COMMENTS ON THE DRAFT EBS REPORT

The U.S. Army Materiel Command did not comment on the Draft EBS Report.

A.5 RESPONSES TO U.S. ARMY ENVIRONMENTAL CENTER COMMENTS ON THE DRAFT EBS

ENTITY:

U.S. Army Environmental Center

INDIVIDUAL:

John P. Buck

DATE:

July 3, 1996

General Comments:

Comment A-62:

Enclosure 1 is a memorandum from the AMC Legal Office describing the requirements for hazardous waste storage notification under CERCLA 120(h). In order to expedite any real estate transactions, recommend that tables described in the memorandum be an appendix to the EBS.

Response:

This memorandum was not included with the copy of these comments provided to Woodward-Clyde. The installation will decide on whether to include the referenced tables or not.

Specific Comments:

Comment A-63:

1. Page 1-2, Sect. 1.2, 1st para.

EBS also calls for a tour of adjacent properties if possible as well as interviews with current and former employees. Include these in the list of activities.

Response:

We concur. This information has been added to the text.

Comment A-64:

2. Page 1-6, Section 1.4, 1st para.

Recommend deleting first sentence. Remaining portion of the paragraph is a sufficient disclaimer.

Response:

The sentence has been deleted.

Comment A-65:

3. Page 3-22, Section 3.4.1, last para.

Could not find Section 5.1.2.1 referenced in the last sentence. This section is referenced frequently.

Response:

The appropriate section is 4.1. All references to Section 5.1.2.1 have been changed to Section 4.1 in the Draft Final EBS Report.

Comment A-66:

4. Page 3-26, Section 3.4.4, 1st para.

If available, testing results of the water supply would be appropriate.

Response:

This information was not readily available during the records review.

Comment A-67:

5. Page 4-2, Section 4.2

It is unclear how the sites listed in this table are addressed in the parcel map. It would be appropriate to identify with an additional column how these sites were characterized.

Response:

We concur. This information has been added to the table.

Comment A-68:

6. Page 4-7, Section 4.4.1.3

The second sentence states "...(either suspected in the surveyor not surveyed and constructed prior to 1985).." this sentence implies that no asbestos containing material could be present in post 1984 construction. Unless there are specific building design documents confirming this statement, it is unclear how this assumption can be make. Please clarify statement.

Response:

The BRAC 95 EBS/BCP guidance states, "If no survey data is available, buildings which were constructed prior to 1985 are assumed as containing asbestos. An 'A(P)' for possible presence of asbestos will be used in the qualified parcel designation."

Comment A-69:

7. Page 4-11, section 4.4.7

The last sentence states that no designation was given to non-CERCLA herbicide/pesticide areas at Seneca, specifically Bldg. 606. Since Building 606 was used to store pesticides it should be placed in either Category 1 or 2 depending on the time of storage, presuming there has been no release. Only the application of pesticides on the ground according to FIFRA specifications exempts pesticides/herbicides from CERFA category designations.

Response:

This building is included in Parcel 74(6)PS/HS/HR. The designation referred to is in regard to qualifiers. This section has been clarified in the Draft Final EBS Report.

Comment A-70:

8. Page 5-2, Section 5.1.1, BRAC Parcel 4(1)

Due to the small size of this parcel recommend combining it with the surrounding Parcel 26(2)PS for simplicity.

Response:

At the request of the BEC, this small parcel has been retained.

Comment A-71:

9. Page 5-3, Section 5.1.2, BRAC Parcel 5(2)PS/HS

It would appear that most of this parcel could be designated as Category 1 based on the size of the USTs (less than 600 gallons) with only selected sites being Category 2.

Response:

The cumulative effect of many small USTs concentrated in this area leads to a designation of the entire area as Category 2.

Comment A-72:

10. Page 5-4, Section 5.1.2, BRAC Parcel 8(2)PS

BRAC Parcel 8(2) is at map coordinate 23,8 not 22,8. Discrepancies at other sites were also noted. Recommend checking all parcels for proper map designations.

Response:

The map coordinates for this parcel have been changed. Other coordinates have also been checked. Also see the response to Comment A-55.

Comment A-73:

11. Page 5-8, Section 5.1.5,m BRAC Parcel 26(2)PS

It would appear that most of this parcel could be designated as Category 1 based on the size of the USTs (less than 600 gallons) with only selected sites being Category 2.

Response:

The cumulative effect of many small USTs concentrated in this area leads to a designation of the entire area as Category 2.

Comment A-74:

12. Page 5-14, Section 5.1.2, BRAC Parcel 65(2)PS(P)/HS(P)

It is unclear what category this parcel should fall into since there is a reference to a potential release and the last sentence indicates its a Category 6 yet it is labeled Category 2. Recommend confirming the parcel designation.

Response:

See the response to Comment A-27.

Comment A-75:

13. Page 5-15, Section 5.1.3, BRAC Parcel 52(3)HS/HR

Recommend this parcel be Category 4 due to the remediation that had taken place.

Response:

We do not concur. Other than mopping up of small quantities of spilled materials that were contained within shipping containers, no remediation has taken place or appears to have been required.

Comment A-76:

14. Page 5-16, Section 5.1.4, BRAC Parcel 55(5)PR(P)/HR

Recommend this parcel be Category 6 since no removal or remedial actions have been conducted.

Response:

We concur. This parcel has been changed to Category 6.

Comment A-77:

15. Page 5-28, Section 5.1.5., BRAC Parcel 87(6)HS/HR(P)

This comment refers to this parcel and any other parcel where there was a reference to the USATHAMA study which concluded that the uncovered ore could migrate into the environment through air disposal of dust or through particulate transport of surface water

runoff. Since there has been no study to determine whether or not this transport has occurred at Seneca, it would appear these parcels should be designated Category 7, not Category 6. Category 6 implies that cleanup is required yet this cleanup requirement has not yet been demonstrated.

Response:

We do not concur. At a minimum, the cleanup required is removal of the ores, as they are a potential source of contamination. This information has been added to the text.

Comment A-78:

16. Page 5-29, Section 5.1.5, BRAC Parcel 91(6)HS(P)/HR(P)

It would appear these parcels should be designated Category 7, not Category 6. Category 6 implies that cleanup is required yet this cleanup requirement has not yet been demonstrated.

Response:

We concur. This parcel has been changed to Category 7.

Comment A-79:

17. Page 5-33, Section 5.1.5, BRAC Parcel 104(6)HS/HR(P)

It would appear these parcels should be designated Category 7, not Category 6. Category 6 implies that cleanup is required yet this cleanup requirement has not yet been demonstrated.

Response:

Limited sampling conducted at this location detected pesticide compounds in soil above NYSDEC TAGM values. This information has been added to the Draft Final EBS Report.

Comment A-80:

18. Page 3-43, Section 5.1.7, first bullet

See Comment # 6.

Response:

See the response to Comment A-68.

A.6 RESPONSES TO U.S. ARMY CORPS OF ENGINEERS COMMENTS ON THE DRAFT EBS REPORT

The U.S. Army Corps of Engineers did not comment on the Draft EBS Report.

A.7 RESPONSES TO OTHER COMMENTS ON THE DRAFT EBS REPORT

A.7.1 RESPONSES TO PARSONS ENGINEERING SCIENCE, INC. COMMENTS ON THE DRAFT EBS REPORT

ENTITY:

Parsons Engineering Science, Inc.

INDIVIDUAL:

Michael Duchesneau, P.E.

TITLE:

Project Manager

DATE:

May 2, 1996

General Comments

Comment A-81:

a) This EBS report reflects a lack of familiarity with the Seneca Army Depot Activity (SEDA) particularly in regard to the status of SWMUs, the current boundaries of the sites, and other relevant details of the planned RI/FS investigations. b) Of particular concern is the inclusion of areas of SEAD-12 in BRAC Parcel 3(1), which is a Category 1 parcel. SEAD-12 emcompasses most of the former Special Weapons area and is scheduled for a RI/FS. The EBS report proposes sampling to be conducted in several buildings which are within SEAD-12 and have already been scheduled for sampling in the Project Scoping Plan for a CERCLA RI/FS at SEAD-12. The EBS report developed parcels that are a combination of SWMUs, which are scheduled for a RI/FS, and sites, which do not require further investigation. c) In addition, the boundaries of SEAD-4, SEAD-16, SEAD-45, SEAD-57, SEAD-64D, and the Ash Landfill are incorrectly shown on Figure 5-1. d) It appears that portions of these SWMUs are classified as part of BRAC Parcel 3(1) and the boundaries of these SWMUs have been extended or reduced without explanation.

Response:

- a) Comment noted.
- . b) See the response to Comment A-57.

- c) SWMU boundaries are not shown in Figure 5-1; parcel boundaries are shown. Some parcels have combined SWMUs for simplicity in identifying the environmental condition of a property type.
- d) SWMU boundaries have not been changed since Woodward-Clyde was not tasked to do so. Some areas that contain SWMUs have been combined with additional areas of concern that were not previously identified.

Comment A-82:

Currently, six facilities on SEDA are operating as RCRA TSD facilities under the interim status provisions of RCRA. Interim status allows a facility to operate as a TSD facility while the RCRA Part B permit application process is ongoing. These facilities include Buildings 301, 307, 367, and 803, the Open Detonation (OD) grounds, and the Open Burning (OB) grounds. SEDA completed Part A of the RCRA permit application and is pursuing a Part B RCRA Permit for these facilities which is currently under review by the RCRA branch of NYSDEC. The final attachment of the Part B Permit is the operation of the OB and OD grounds. These facilities are regulated by Subpart X of RCRA as a miscellaneous unit. RCRA closure and post-closure requirements apply to all hazardous waste management units that have interim status or a permit pursuant to Part B. Therefore, these facilities are required to meet EPA and NYSDEC closure and post-closure requirements and should be classified as Category 7 parcels pending completion of the closure activities.

Response:

We do not concur. Completion of all investigation or closure activities at a parcel is not necessary in order to classify that parcel as a category other than 7. When classifying a parcel, the determining factor is whether or not sufficient information exists to determine the appropriate category. In most cases, the appropriate category can be determined based on a much more limited data set than is required for closure or for completion of an RI.

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Comment A-83:

The U.S. Army commissioned the "Solid Waste Management Unit Classification Report" for SEDA to evaluate the effects of past solid waste management practices at identified SWMUs on the facility and to classify each SWMU as either a No Action SWMU or as an area of concern (AOC). AOCs include both SWMUs where releases of hazardous substances may have occurred and locations where there has been a threat of a release into the environment of a hazard substance or constituent. In accordance with the decision process outlined in the Interagency Agreement (IAG), ESIs were performed at SWMUs that were classified as AOCs. If the conclusion of the ESI report was that an AOC posed a threat to human health, welfare, or the environment, the Army could perform a removal action to eliminate the threat or conduct further investigations at these sites to determine the extent of contamination and to develop remedial actions based on the results of the investigations. All SWMUs and AOCs requiring further investigations including a RCRA facility investigation, mini-risk assessment, or limited sampling should be classified as Category 7 parcels.

Response:

See the response to Comment A-82.

Comment A-84:

Identification and classification of SWMUs was conducted by the Army in accordance with the decision process outlined in the IAG between the U.S. Army Corps of Engineers (USACE), the U.S. Environmental Protection Agency (EPA), Region II, and the New York State Department of Environmental Conservation (NYSDEC). The EPA and NYSDEC reviewed the proposed list of SWMUs, their classifications, and all relevant data and information used to make this determination, and determined whether the proposed classifications were correct. Reference in the EBS report to Engineering Science determining the classification of the SWMUs should be removed.

Response:

The appropriate language for SWMU classification has been incorporated into the Draft Final EBS Report. References to Engineering Science classifying the SWMUs have been deleted.

Comment A-85:

The site maps for this report are inadequate. The only site plan which is presented in the first four sections in Figure 3-1 which shows minimal details of the site. Buildings and areas are presented in the text and their locations referenced to areas of the Depot which have not been described or shown on a sitewide map. It would also be very useful to have additional maps 'showing areas of the Depot which can be used in conjunction with the description in the text.

Response:

A detailed site map has been included in this section of the Draft Final EBS Report.

Comment A-86:

In Section 5, the location of parcels was described in reference to areas of SEDA, however, the location of these areas on the depot were not described or presented on a site plan. The areas include the Duck Pond Area, Elliot Housing, Main Depot, IPE Area, Warehouse Area, Ammo Area, 50 Area, and Colonels Row. According to site personnel, the main areas of the depot include the Ammunition Area which is the fenced area in the central portion of the depot; the North Depot Area which includes the former Special Weapons Areas (or Q) and the North Administration Area; and the Administration Area, which is located on the western portion of SEDA near the Main Gate.

Response:

The six main areas identified in Section Three are taken from the Future Development Plan and are based on function and depot history. Since the Master Plan addresses land use issues and because the ultimate goal of the BRAC program is efficient reuse, the use of these six areas is appropriate. Additional areas within these six main areas have been described in Section Three and added to Figure 3-1.

Comment A-87:

It appears that areas of the site are referred to by different designations within the text. This is confusing particularly in Section 5 which presents the parcels and their corresponding category.

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For example, the area in the northern portion of the site was referred to as the North Depot Area, North Storage Activity, North Depot Area, and the North Administration Area.

Response:

Inconsistencies such as these have been rectified.

Comment A-88:

Regarding the general organization of the report, it is confusing to have some tables at the end of a section and other tables embedded within the text without table numbers. Either all tables should be at the end or incorporated into the text.

Response:

Comment noted. Tables that are essential to the text and facilitate presentation of essential information have been included within the text. Tables that support information presented in the text or are multiple pages in length are included after a section.

Section 1

Comment A-89:

#1 Page 1-3. Section 1.3 Definitions of Terms

The definition of hazardous substances should be expanded. Hazardous substance is defined as in CERCLA with the addition of fuels and other petroleum products. The definition includes Clean Water pollutants, RCRA hazardous wastes, Clean Air Act hazardous air pollutants, Toxic Substances Control Act imminently hazardous substances, and any other substances designated as hazardous under CERCLA Section 102.

Response:

This section of the EBS report points the reader to the appropriate regulations defining hazardous substances. The definition used here is from scope and guidance documents provided by the U.S. Army.

Comment A-90:

#2 Page 1-7. Section 1.5.2 Physical Setting

The text states that the Seneca Army Depot Activity is an active military facility. Since the depot has been included on the BRAC95 list, this statement should be qualified by stating that the primary mission of SEDA is closure under BRAC95.

Response:

We do not concur. Closure as the primary mission is stated on page 3-2 where other aspects of the mission of SEDA are also described.

Section 2

Comment A-91:

#3 Section 2.1.1 Existing Document

The document identification number is not referenced in the CERFA map table (Table 5-1) as stated. Also, Table 5-1 presents the BRAC Parcel descriptions.

Response:

Document reference numbers have been added to Table 5-1a.

Comment A-92:

#4 Page 2-2 Table

The correct title for document number SD2013 is Expanded Site Inspection Report, Seven High Priority Areas of Concern, Seneca Army Depot, Romulus, New York.

Response:

The title in the Draft EBS Report is as it appears on the title page of the document in question.

Comment A-93:

#5 Page 2-2 Table

The correct title for document number SD2014 is Expanded Site Inspection Report, Three Moderate Priority Areas of Concern, Seneca Army Depot, Romulus, New York.

The title in the Draft EBS Report is as it appears on the title page of the document in question.

Comment A-94:

.#6 Page 2-2 Table

The correct title for document number SD2015 is Expanded Site Inspection Report, Eight Moderately Low Priority Areas of Concern, Seneca Army Depot, Romulus, New York.

Response:

The title in the Draft EBS Report is as it appears on the title page of the document in question.

Comment A-95:

#7 Page 2-3 Table

Document number SD2037 is listed twice in the table.

Response:

The second reference to this document has been deleted.

Comment A-96:

#8 Page 2-3. Section 2.1.2 Federal, State, and Local Government Regulatory Records Were any local records such as local fire department records reviewed concerning spills?

Response:

Inquiries were made regarding the availability of local records. There were none available.

Comment A-97:

#9 Page 2-6. Spill List

One spill case appear as to be open, however the facility is unknown. Can more information be obtained regarding this spill?

Response:

Additional information provided by SEDA with their comments in the Draft EBS Report indicates that this spill is associated with Buildings 2134. This information has been added to this table.

Comment A-98:

#10 Page 2-7 Leaking Underground Storage Tanks List
One case appears to be open at Building 2305. Will any further investigation be
conducted? BRAC Parcel 8(2) is the 1000 gal. tank associated with this building.

Response:

Based on additional information provided by SEDA after the EBS field investigation, the building associated with this LUST is actually Building S-311, which is located within Parcel 94(6).

Comment A-99:

#11 Page 2-7. Section 2.1.2. Federal, State, and Local Government Regulatory Records
The definition of a Class One violation should be added to the text.

Response:

We do not concur. A Class One violation involves a release that poses a threat to human health and safety. Since SEDA has not been cited for this type of violation, we do not see any reason for including this information.

Comment A-100:

#12 Page 2-7. Section 2.1.2. Federal, State, and Local Government Regulatory Records
The text states that there are outstanding compliance issues involving TSD-closure and
post-closure requirements. This should be discussed in more detail either here or later
on in the text.

Response:

Additional discussion of this has been added to this section.

Comment A-101:

#13 Page 2-12. Section 2.1.6 Visual Inspections

Paragraph 3

Although the area surrounding SEDA is generally populated farmland, there are areas adjacent to the site where the population density is slightly higher. These include residences on the western boundary of SEDA along Route 96A and Romúlus Village on the eastern boundary of SEDA. More specifically, records show that approximately 11 residences in the town of Varick are located adjacent to the northwestern border of SEDA.

Response:

Comment noted.

Section 3

Comment A-102:

- #14 Page 3-2. Section 3.3 Description of Facilities
 - a) This section of the report should be expanded to include a more detailed site description. Subsequent sections of the report discuss the location of parcels in reference to an area of the depot, however some of these areas were not described or shown on a site map. For example, the Ammunition Storage Area, which is located in the central portion of the depot, and the duck pond, which is located in the northwest corner of the depot, were not described or located on the SEDA map. Because of the

large size of the depot, it may be useful to add a description of the depot by area and discuss the activities and types of buildings which are located in each area. A more complete description of the depot early in the report would make the description of the parcels and their locations more meaningful.

- b) Furthermore, areas of the depot are referenced by different titles in various sections of the text. In particular, the North Depot Area is also called the North Depot Activity. According the SEDA personnel, this area is referred to as the North Depot Area and includes the North Administrative Area and the former Special Weapons Area, or the Q.
- c) The area referred to as the South Depot Area in this report is designated as the Administrative area according to SEDA personnel. This area includes administrative buildings, Elliot Acres housing, warehouses, and support buildings. This is also the location of the Main Gate.
- d) Figure 3-1 should be revised to show all the areas described in the text and to indicate the proper designation for each area.

Response:

- a) We do not concur. The description of the depot by area and associated activities and buildings is provided in Section 3.3.1.
- b) Inconsistencies will be rectified.
- c) Inconsistencies will be rectified.
- d) Additional areas has been added to this map, where appropriate.

Comment A-103:

- #15 Page 3-5. Section 3.3.1 Mission Related Activities
 - a) This section is confusing to read. The text under the section titled, Munitions Storage, which begins with "Seneca Army Depot Activity has been used for" should be moved to Section 3.3.1 and used as an introduction to Section 3.3.1.1.
 - b) The term Main Depot Area seems to include a large area of the depot. The list of munitions storage facilities which are located within the Main Depot Area could be

located anywhere within the depot. It is difficult to determine in what areas of the facility the buildings, sheds, and igloos may be located.

Response:

- a) Comment noted. This section has been revised to differentiate munitions storage from munitions disposal activities.
- b) Comment noted.

Comment A-104;

#16 Page 3-5. Section 3.3.1.1 Main Depot Area

Munitions disposal activities were also carried out in other facilities on the depot in addition to the OB/OD grounds such as the Munitions Washout Facility.

Response:

See the response to Comment A-103a.

Comment A-105:

- #17 Page 3-5 Table-Main Depot Munitions Storage
 - a) The function for facility 2086 has been capitalized and abbreviated. There should be a footnote stating the reason for highlighting this facility.
 - b) Generally, it would also be more informative if abbreviations were not used. For example, facility 2202 appears later in the table with the abbreviated function, STR SHEN GP INS. Tables which appear later in the text also have these abbreviations and capitalizations. These tables should also be revised.

- a) This facility was not intended to be highlighted. The description was taken verbatim from SEDA's real property inventory listing. Abbreviations have been spelled out in the Draft Final EBS Report.
- b) Abbreviations have been spelled out in Draft Final EBS Report.

Comment A-106:

#18 Page 3-7. Table-General Purpose Storage Facilities
What does STORAGE GP INST., STORAGE GP DEP/STD., AMMO STRS
DEP/STORAGE, and CONT HUM WH DEP/WAREHOUSE mean?

Response:

Abbreviations have been spelled out in the Draft Final EBS Report.

Comment A-107:

- #19 Page 3-8. Industrial Operations
 - a) The first sentence of the section states that industrial activities have included the restoration of conventional and guided missile ammunition, maintenance, and demilitarization of ammunition. It is unclear what type of general maintenance was conducted. Does this relate to munitions or to support facilities or both?
 - b) The types of effluents and their migration pathways from these activities will vary depending on the type of industrial operation. For example, general maintenance activities would not have explosives and certain heavy metals associated with explosives. Therefore, the discussion of effluents should be separated according to the type of industrial operation.
 - c) It is unclear in the following paragraphs where demilitarization is conducted. Is it part of the ammunitions restoration list on page 3-9?

- d) The Burning Ground is referred to as the Open Burning Ground. This should be changed in the text.
- e) Are the self-contained degreasing units disposed of by the contractor off-site?

- a) The maintenance referred to here is munitions maintenance. The sentence has been revised for clarity.
- b) We do not concur that the effluents need to be separated in this section of the EBS report. The intent of this section is to provide a general discussion of the activities at SEDA that could lead to environmental concerns.
- c) This section has been clarified.
- d) The text has been revised accordingly.
- e) Yes. This information has been added to the text.

Comment A-108:

#20 Page 3-9. Main Depot Munitions Restoration Facilities Table
The area of the facility for Building 2109 is not listed.

Response:

Additional research by SEDA personnel into the real estate records was unable to confirm that this facility exists. Reference to it has been deleted.

Comment A-109:

#21 Page 3-10

Where is the IPE Area? This should be presented earlier in report.

Response:

See the response to Comment A-86.

Comment A-110:

#22 Page 3-11 Industrial Plant Equipment Area Facilities Table
Indicate what STORAGE GP DEP means.

Response:

See the response to Comment A-105b.

Comment A-111:

- #23 Page 3-10. Administration
 - a) It is unclear whether Main Depot administration activities are carried out in one area or the North Depot Area and the Administrative Area. b) Also, why is Flammable Storage included under Administration? Either create another category, or add more discussion as to what is considered to be an administration activity.

Response:

- a) Comment noted. The text has been clarified.
- b) For clarity, an additional discussion has been provided.

Comment A-112:

- #24 Page 3-11. Training Ranges
 - a) In the table, what does COV TRAIN. AREA mean? b) If building 373 contains 1052 square feet, where are the remaining 899.98 acres associated with training ranges.

Response:

- a) See the response to Comment A-105b.
- b) The remaining acres used for training are located at various places around SEDA. Additional discussion of these training areas have been added to the text, as well as the statement that training was discontinued on July 31, 1996.

Comment A-113:

#25 Page 3-11. Table-North Depot Area Facilities
What do ACS CTR and HHC mean? The remaining abbreviations should also be spelled out.

Response:

See the response to Comment A-105b.

Comment A-114:

#26 Page 3-11. North Depot and Special Weapons Areas
Is there a difference between the North Depot Activity mentioned on page 3-1, the
North Storage Activity, and the North Depot Area?

Response:

The North Depot Activity is the original name for the area referred to in the Draft EBS Report as the North Depot Area. The reference to North Storage Activity on page 3-11 has been changed to read North Depot Activity.

Comment A-115:

#27 Page 3-14. Section 3.3.1.3 South Depot Area
A map of the South Depot Area would be helpful.

Response:

Comment noted. This area is illustrated on the CERFA map, Figure 5-1.

Comment A-116:

#28 Page 3-17 Section 3.3.1.4 Airfield
A map of the area would be helpful.

Response:

Comment noted. This area is illustrated on the CERFA map, Figure 5-1.

Comment A-117:

#29 Page 3-18 Table-Airfield Area FacilitiesWhat does MG TRANS RG stand for? Spell out all function terms.

Response:

See the response to Comment 105b.

Comment A-118:

#30 Page 3-21 Section 3.3.2 Tenant Missions

Add a description of the location of the LORAN-C station and the Defense

Reutilization and Marketing Office holding area.

Response:

The locations of these areas have been described in the text.

Comment A-119:

- #31 Page 3-22 Section 3.4.1 Hazardous Materials/Waste Management
 - a) In the second paragraph, the Building number should be 307. b) A description of the general location of all the facilities discussed in this section would be useful.

Response:

- a) We concur. This change has been made.
- b) We do not concur. Building locations can be found on the tables presented in Section 3.3.

Comment A-120:

#32 Page 3-22 Section 3.4.1 Hazardous Materials/Waste Management

The discussion of ordnance detonation and burning activities should describe the status
of the RCRA permit and required closure activities associated with the permit.

Response:

Comment noted.

Comment A-121:

#33 Page 3-23 3.4.1 Hazardous Materials/Waste Management
Building 803 is located in the former Special Weapons area. The location of this
building should be added to the text.

Response:

We do not concur. Building locations can be found on the tables presented in Section 3.3.

Comment A-122:

#34 Page 3-23. Section 3.4.1 Hazardous Materials/Waste Management The USATHAMA report, Update of the Initial Installation Assessment of Seneca Amy Depot, NY (August 1988) presents a list of the types of ore piles as well as a figure locating the ore piles.

Response:

Comment noted. Additional ores have been added to the section.

Comment A-123:

- #35 Page 3-24. Section 3.4.1 Hazardous Materials/Waste Management
 - a) In the last paragraph on this page, a "single operable unit" is described as being a composite of five SWMUs. For clarity, this area should be designated in the text as Ash Landfill because a RI/FS has been conducted at the Ash Landfill and several reports have been issued concerning this area designated as the Ash Landfill.
 - b) Where is Building 2203? Throughout the text, the location of SEAD-64D is described as being west of Building 2203, however, this structure is not shown on Figure 5-1. It would be clearer to have a site location map for these sites.

Response:

- a) We concur. The text has been changed to indicate that this OU is referred to as the Ash Landfill.
- b) The location information regarding this SWMU was taken from the Solid Waste Management Classification Study prepared by Engineering Science. Building 2203 appears to

be a loading platform located along the North-South Baseline Road. This facility has been labeled on Figure 5-1 in the Draft Final EBS Report.

Comment A-124:

- #36 Page 3-25. Section 3.4.1 Hazardous Materials/Waste Management
 - a) It may be more appropriate to have the description of the Ash Landfill in Section 3.4.2 Solid Waste/Landfill Management.
 - b) There are several disposal areas located on SEDA which are not discussed in the text. For example, SEADs 64A, B, and C were used as garbage disposal areas in the past, and SEAD-11 was a construction debris landfill which was used between 1946 and 1949.

Response:

- a) We concur. Discussion of the Ash Landfill has been moved to Section 3.4.2.
- b) Discussion of additional disposal areas has been added to the text.

Comment A-125:

- #37 Page 3-26. Section 3.4.5 Groundwater Monitoring Wells
 - a) The text status that 29 wells groundwater monitoring wells are in place at SEDA. This is incorrect. Groundwater monitoring wells have been installed as part of the ESI and RI field programs at approximately 25 sites on the Depot.
 - b) Reference in the text to the old landfill in confusing because there is more than one old landfill on the Depot.

Response:

- a) The text has been changed to indicate that over 100 groundwater monitoring wells have been installed at SEDA.
- b) The text has been changed to indicate that 47 monitoring wells are in place at the Ash Landfill.

Comment A-126:

#38 Page 3-27. Section 3.4.7 Sewage Treatment

The text refers to the South Administration and Warehouse area. This has not been described before in the report. Does this refer to the South Depot Area? These areas should be described and shown on a site map earlier in the report or the designations should be consistent.

Response:

See the response to Comment A-86.

Comment A-127:

#39 Page 3-28. Section 3.4.12 On-Site Housing

The text refers to on-post housing at the North End. It is unclear where this area is located on the Depot. Should this be the North Depot area?

Response:

We concur, This should be the North Depot Area. The text has been revised accordingly.

Comment A-128:

#40 Figure 3-1

- a) This figure is inadequate to support the text. The site plan should be larger to show more details of the site which are discussed in the text. b) A legend should be added to this figure to describe the designation, AP-1, and the boundary lines. c) It is unclear what is the SEDA boundary line and what are sections of the depot because the same line type is used. It would be more appropriate to use different line types to distinguish between the areas within the depot and the depot boundary.
- d) Each area of the site which is referenced in the text should be shown on this figure. For example, the following areas are presented in the text but are not shown on a site plan: the Duck Pond, the OB/OD grounds, the Property Disposal Yard, the IPE area, the Ash Landfill.

- a) We concur. This figure has been revised for the Draft Final EBS Report.
- b) We concur. A legend has been added to this figure.
- c) We concur. A different line type has been used to distinguish the SEDA boundary from the area boundaries.
- d) See the response to Comment A-86.

Section 4

Comment A-129:

#41 Page 4-2. Section 4.2 Table-Potential Contamination Areas

Areas presented in the table are unclear. For example, what area is included in the Main

Depot area and where is the Ammo Area? The locations of the facilities described as

"undeveloped area near shale pit" and the "50 Area" are not presented on a site map.

Response:

Areas presented in this table have been revised to correspond with those shown in Figure 3-1.

Comment A-130:

#42 Page 4-3. Section 4.3 Sources of Potential Contamination from Adjacent or Surrounding Property

Were local fire departments contacted for records of response to incidents on adjacent properties relating to actual or potential spills or releases of hazardous substances including fuels?

Response:

See the response to Comment A-96.

Comment A-131:

#43 Page 4-7. Section 4.4.2 Lead-Based Paint
Where and what is "Colonels Row"? This area should have been described earlier in
the report.

Response:

See the response to Comment A-86.

Comment A-132:

#44 Page 4-8. Section 4.4.3 Polychlorinated Biphenyls

a) The location of Building No. 301 would be useful. b) Building 301 is a RCRA storage facility and will require closure. This should also be mentioned in the text.

Response:

- a) A description of the location of Building 301 has been added to the text.
- b) The statement that Building 301 is a RCRA storage facility requiring closure has been added to the text.

Comment A-133:

#45 Page 4-9. Section 4.4.4.1 Designation of Buildings
It should be stated that there are no federal or state standards regulating radon exposure at the present time. The 4 pCi/L level is a USEPA recommended mitigation level.

Response:

Comment noted. The text has been revised accordingly.

Comment A-134:

#46 Page 4-11. Section 4.5 Reserve Enclaves

a) Buildings 339, 347, 348, 350, and 356 were not listed in the table in Section 3.4 which presented warehouses known to contain hazardous materials.

b) Is it possible to list or briefly describe the 36 areas of known environmental contamination or to describe them. c) Does this include the Loran Station?

Response:

- a) The warehouses discussed in this section have been selected by the U.S. Army for the future storage of hazardous materials because they are clustered close together. This proposed usage does not necessarily reflect the past or present usage. Evidence was not found that these buildings were ever used for hazardous storage; therefore, they should not be included in the table in Section 3.4.
- b) The 36 acres of known environmental contamination are discussed in the *BRAC* Implementation Plan and are related to the previously identified SWMUs. These will not be described in depth in this section because the SWMUs are discussed in Section 4.1.
- c) Although it will be retained by the U.S. government, the LORAN-C station will be transferred from the U.S. Army to the U.S. Coast Guard.

Section 5

Comment A-135:

- #47 Section 5 General Comments
 - a) Building 301, the PCB storage building which is one of the RCRA TSD facilities on SEDA operating under interim status, is not listed as a parcel but seems to be included in the BRAC Parcel 3(1), which is a Category 1 parcel. b) As part of the RCRA permit, proper closure must be conducted at this facility and therefore, the building should be classified as a Category 7 parcel pending completion of closure activities.
 - c) BRAC Parcels 6, 13, 14, 15, 54, 63, 119, 126, and 127 are not listed in any of the tables or discussed in the text. If these parcels were eliminated and included in BRAC Parcel 3(1), this should be stated in the text.
 - d) SEAD-64A has not been included as a BRAC parcel. This site was used as a landfill from 1974 to 1979 when the on-site incinerator was not in operation. This site has been

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recommended for a RI/FS and a Project Scoping Plan for a CERCLA RI/FS is being developed for this site along with SEAD-11 and SEAD-64D.

e) What is the status of the creeks on SEDA? Are they considered as part of BRAC Parcel 3(1) although they may have been affected by tributaries which may have potential impacts from sites on SEDA.

Response:

- a) The text has been changed to more accurately reflect the fact that Building 301 is a PCB-containing equipment storage building. The EBS makes a distinction between the presence of PCBs within equipment, such as transformers, that have not leaked and PCBs in soil from leaking equipment. PCBs in soil from leaking equipment is considered a CERCLA issue in the EBS, while storage of PCB-containing equipment is considered a non-CERCLA issue that does not preclude the U.S. Army from transferring the property. Guidance recommends that these types of facilities be qualified for PCBs, but not excluded from Category 1.
- b) We do not concur. The status of closure is not necessarily the determining factor in the designation of the environmental condition of the property. The facility is used for the storage of PCB-containing equipment, and there is no evidence of a release; therefore, designation as . Category 1 and qualification for PCBs is appropriate.
- c) As a result of the mid-EBS meeting between the BEC, GPM, and Woodward-Clyde, some parcel designations were changed and some parcels were grouped with others. The parcels were not renumbered to expedite the production of the Draft EBS Report.
- d) We do not concur. SEAD-64A is included within Parcel 75(6); it was incorrectly identified as SEAD-64D in the text, but correctly identified in Table 5-1. The text has been revised.
- e) The creeks within a particular SWMU are addressed as part of the investigation of that SWMU. If contamination is known to be present in the creeks within a parcel, it is considered when designating the environmental condition of the property for that parcel.

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Comment A-136:

- #48 Page 5-2. Section 5.1 Parcel Designations, BRAC Parcel 3(1)
 - a) The extent of this parcel is vague because it is described as encompassing most of the Depot Area. It is not clear from Figure 5-1 whether the extent of the Depot Area for Parcel 3(1) include the entire depot including the North Depot Area and South Depot Area, or just the Ammunition Area. Additional description of the area in the text would make this clearer.
 - b) Furthermore, a RI/FS will be conducted for SEAD-12, which encompasses the former Special Weapons Area to the first row of igloos. This area is shown on Figure 5-1 as being part of the BRAC Parcel 3(1).

Response:

- a) For clarity, an additional description of this parcel area has been added to the text.
- b) See the response to Comment A-57.

Comment A-137:

- #49 Page 5-3. Section 5.1.2 Category 2 Parcels BRAC Parcels 5(2)
 - a) Referent to USTs by State Reg. No. should be consistent throughout the report.
 - b) This listing of the USTs by State Reg. Nos. in this paragraph seems awkward and does not provide information. c) It may be more useful to put the information in table format with the UST and associated. d) The USTs discussed in this section were not included in the table in Appendix B. If these tanks were not listed because they are considered to be off-site by the state, this should be stated, otherwise the tanks should be listed in the UST/AST table.

Response:

- a) Additional information regarding tank registration numbers has been made available, and references to USTs by State Registration Number are now consistent throughout the report.
- b) We do not concur. We believe this listing provides useful information. However, this information has been converted to table format to facilitate presentation.
- c) We concur. This information has been converted to table format.

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d) We do not concur. All of these tanks are listed in the table in Appendix C. Note that the second column of this table is the State Registration Number; the first is the associated building number.

Comment A-138:

- #50 Page 5-4. Section 5.1.2 Category 2 Parcels BRAC Parcel 7(2)
 - a) The first sentence of the paragraph should have a verb.
 - b) It would be helpful to provide information about the location of this parcel in the text if only to state that the parcel is located at the airport.
 - c) If a UST is listed as a parcel, is the adjacent building also considered to be part of the parcel or is the building in BRAC Parcel 3(1)? According to the text, one could infer that the UST and building are not the same parcel, however Figure 5-1 shows the building as being part of the parcel.
 - d) This comment also applies to BRAC Parcels 8(2), 9(2), 10(2).

Response:

- a) We concur. The verb "is" has been added to the text.
- b) We concur. Locational information has been added to the text.
- c) BRAC guidance requires that USTs and ASTs containing more than 600 gallons of product be identified with a 0.25-acre circle centered on the tank. The designated parcel area pertains to the land within a 0.25-acre area, not the building structure.
- d) See the response to Comment A-138c.

Comment A-139:

#51 Page 5-5. Section 5.1.2 Category 2 Parcels
BRAC Parcel 11(2)

A brief description of the location of this site in the text would be helpful. At a minimum, the area of the Depot where this site is located would be useful.

For clarity, an additional description of the location of this site has been added to the text.

Comment A-140:

#52 Page 5-6. Section 5.1.2 Category 2 Parcels
BRAC Parcel 21(2)

If columbite ore was stored in this warehouse, should some type of sampling be conducted prior to determining the category of this facility?

Response:

We do not concur. The ore stored in the building was containerized, and there was no documented evidence of a release. Therefore, Category 2 is appropriate. Additionally, a radionuclide survey of this building was conducted, and no evidence of contamination was detected. The results of the radionuclide survey have been mentioned in the text.

Comment A-141:

#53 Page 5-7. Section 5.1.2 Category 2 Parcels BRAC Parcel 24(2)

It seems inappropriate to include Building 307 in Category 2 because the building is a RCRA hazardous waste storage facility operating under interim status. Closure of this facility must be completed in accordance with RCRA and NYSDEC regulations. This storage facility should be classified as Category 7 pending completion of the closure activities.

We do not concur with this comment. The status of closure is not necessarily the determining factor in the designation of the environmental condition of the property. The facility is used for the storage of hazardous materials and there is no evidence of a release. Therefore, Category 2 is appropriate.

Comment A-142:

#54 Page 5-8. Section 5.1.2 Category 2 Parcels

BRAC Parcel 26(2)

The sentences which discuss the USTs by number are awkward. The USTs should be referenced consistently throughout the text.

Response:

See the response to Comment A-137a.

Comment A-143:

#55 Page 5-8. Section 5.1.2 Category 2 Parcels BRAC Parcel 28(2)

a) It is not clear whether Building 103 is included in this parcel with the associated UST or only the UST. b) According to Section 4.5, Building 103 will be retained by the DOD.

Response:

- a) See the response to Comment A-138c.
- b) At the request of SEDA, all of the installation was characterized regardless of potential reuse plans.

Comment A-144:

#56 Page 5-8. Section 5.1.2 Category 2 Parcels

BRAC Parcels 28(2) and 29(2)

It would be useful to have a site location plan of the area being discussed in this section of the report.

Response:

Comment noted.

Comment A-145:

#57 Page 5-9. Section 5.1.2 Category 2 Parcels

BRAC Parcel 31(2)

Building 106A is a preventative medicine laboratory. a) Were there any biohazard concerns at this facility or at the U.S. Army Health Clinic? b) Does this parcel include the building or only the UST?

Response:

- a) At one time, medical waste was stored at this facility in appropriate biohazard containers. There have been no documented releases of medical wastes. This information has been added to the Draft Final EBS Report.
- b) See the response to Comment A-138c.

Comment A-146:

#58 Page 5-13, Section 5.1.2 Category 2 Parcels

BRAC Parcel 48(2)

Although Parsons Engineering-Science recommends the classification of the SWMUs to the Army, the final decision is determined by the USEPA, NYSDEC, and the Army.

Response:

Comment noted. The text has been revised accordingly.

Comment A-147:

#59 Page 5-14, Section 5.1.2 Category 2 Parcels

BRAC Parcel 65(2)

This parcel appears to have been assigned the wrong designation and placed in the incorrect section of the report because it is classified as Category 7 pending cleaning and evaluation of the integrity.

Response:

See the response to Comment A-27.

Comment A-148:

#60 Page 5-15. Section 5.1.3 Category 3 Parcels

BRAC Parcel 114(3)

The oil/water separator in Building 7432 should be cleaned and evaluated for integrity. Perhaps the oil/water separator should be classified as Category 7 pending cleaning and evaluation of the integrity.

Response:

We do not concur. Guidance requires that oil/water separators be treated the same as USTs. There is no documented evidence of leakage from, or flooding of, this oil/water separator. Furthermore, it is the intent of the U.S. Army to address oil/water separators prior to the transfer of any property that contains them.

Comment A-149:

#61 Page 5-16. Section 5.1.4 Category 5 Parcels

BRAC Parcel 55(5)

The acronym AOC stands for area of concern not area of contamination.

Response:

The text has been corrected.

Comment A-150:

#62 Page 5-16. Section 5.1.4 Category 5 Parcels

BRAC Parcel 56(6)

This parcel consists of the composite SWMUs designated as the Ash Landfill and also the disposal area (SEAD-64D) located south of the Ash Landfill. Each area, the Ash Landfill and SEAD-64D, has been recommended for a RI/FS. The Feasibility Study for the Ash Landfill is being completed with a removal action of source soils having been conducted. The disposal area, SEAD-64D, has been grouped with two other disposal areas, the former construction landfill (SEAD-11), and a disposal area (SEAD-64A), for the development of a Project Scoping Plan for performing a CERCLA RI/FS. It would be more efficient to classify the Ash Landfill and the disposal area (SEAD-64D) as separate parcels because of the different RI/FS progress status. Furthermore, since the RI/FS has not been conducted at SEAD-64D, this parcel should be classified as a Category 7 parcel.

Response:

We do not concur. Designation of a category is based on the environmental condition of the property, not on RI/FS progress status.

Comment A-151:

#63 Page 5-17. Section 5.1.4 Category 5 Parcels

BRAC Parcel 56(5)

Second Paragraph

- a) The Building 2203 should be labeled on a site map. It is not shown on Figure 5-1.
- b) For clarity, the five SWMUs which have been grouped together should be referred to as the Ash Landfill since several reports have been issued about the site using this designation.
- c) The description of the sites in this paragraph is not well organized. The debris pile was located in the southern portion of the SEAD-64D. This is not clear from the text.

- a) Facility 2203, which is a loading platform, has been labeled on Figure 5-1.
- b) For clarity, this information has been added to the text.
- c) Comment noted. An effort has been made to clarify this section.

Comment A-152:

#64 Page 5-17. Section 5.1.4 Category 5 Parcels BRAC Parcel 57(5)

The 11 pitchblende storage igloos, which are designated as SEAD-48, have been recommended for a RI/FS and the site has been grouped with SEAD-63 and SEAD-12 for the development of Project Scoping Plan. It would be more appropriate to classify this parcel as a Category 7 parcel because the results of the ESI conducted at the site indicated that more evaluation is required.

Response:

We do not concur. Designation of a category is based on the environmental condition of the property and, in this case, the available evidence indicates that the designated category is appropriate.

Comment A-153:

#65 Page 5-17. Section 5.1.4 Category 5 Parcels
BRAC Parcel 58(5)
SEAD-34 is currently scheduled to undergo a RI/FS, not a mini-risk assessment as stated in the text.

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Response:

Comment noted. The text has been revised accordingly.

Comment A-154:

#66 Page 5-18. Section 5.1.4 Category 5 Parcels
BRAC Parcel 59(5)
Some type of location description would be helpful.

Response:

A description of the location of this parcel has been added to the text for clarity.

Comment A-155:

- #67 Page 5-19. Section 5.1.4 Category 5 Parcels BRAC Parcel 61(5)
 - a) This parcel, which encompasses the area designated as SEAD-12A, was recommended for a RI/FS. During the development of the Project Scoping Plan for a CERCLA RI/FS, the Army, EPA, and NYSDEC determined that the boundary of the SWMU should be expanded to include the area of SEAD-12A, SEAD-12B which is located adjacent to SEAD-12A, and sections of the former Special Weapons Area to the first row of igloos. This SWMU has been designated as SEAD-12. SEAD-12 now includes all the grounds within the former Special Weapons Area, north of the storage igloos and excluding the area designated as SEAD-63. b) It would be more appropriate to classify SEAD-12 as a Category 7 parcel because the results of the ESI indicated that further investigation in the form of a RI/FS is required.
 - c) In addition, the area designated as the BRAC Parcel 3(1) appears the include sections of SEAD-12. The areas for BRAC Parcel 3(1) should be revised to incorporate the new boundary of SEAD-12.

Response:

- a) Comment noted.
- b) See the response to Comment A-57.
- c) See the response to Comment A-57.

Comment A-156:

#68 Page 5-20. Section 5.1.5 Category 6 Parcels BRAC Parcel 67(6)

- a) SEAD-4 is a Munitions Washout Facility and Leachfield which includes several buildings (Buildings 2076, 2078, 2079, 2073, 2084, and 2085), roadways, and a pond. During the ESI, no leachfield was identified, however, three difference surface water drainage areas were found to have been impacted. The description of SEAD-4 should be revised to indicate the above information. Specifically, in the second paragraph, reference to impacts to the surface soils, sediment, surface and groundwater at the leach field should be revised since the leach field was not found.
- b) As part of the ESI Report, a CERCLA RI/FS was recommended to be performed at the SWMU designated as SEAD-4. It would be more appropriate to separate SEAD-4 from the construction debris landfill (SEAD-11) and the boiler plant blowdown leach pit (SEAD-38). SEAD-11 has also been recommended to undergo a RI/FS and a Project Scoping Plan for a CERCLA RI/FS has been developed for the group of SWMUs designated as SEAD-11, SEAD-64A, and SEAD-64D. A separate Project Scoping Plan has been developed for SEAD-4.
- c) Finally, since a RI/FS has not been conducted at SEAD-4 or SEAD-11 yet, these parcels should be classified as Category 7 parcels.

Response:

- a) The text has been revised to indicate that the leach field was not found.
- b) See the response to Comment A-150.
- c) See the response to Comment A-152.

Comment A-157:

- #69 Page 5-21. Section 5.1.45 Category 6 Parcels
 BRAC Parcel 67(6)
 - a) The area referred to as the "50 Area" is not shown on a site map or described in the report. It would be useful to discuss this earlier in the report and to locate it on a map.

b) What does SMK mean?

Response:

- a) See the response to Comment A-86.
- b) These are the initials of one of the field investigators; they were used to label and track areas of visual inspection. Explanatory text has been added.

Comment A-158:

- #70 Page 5-22. Section 5.1.5 Category 6 Parcels BRAC Parcel 70(6)
 - a) Building 608 is not shown on Figure 5-1
 - b) The SWMU designated as SEAD-52 consists of Buildings 608, 610, 611, and 612. Since the finalization of the ESI Report, it was decided by the USEPA and NYSDEC that a RI/FS should be conducted at this site. This site has been combined with SEAD-60 in the development of a Project Scoping Plan for a CERCLA RI/FS. Therefore, it would be more appropriate to classify these sites as Category 7 parcels because it was determined that more investigation is required.

Response:

- a) Building 608 has been added to Figure 5-1.
- b) See the response to Comment A-152.

Comment A-159:

- #71 Page 5-24. Section 5.1.5 Category 6 Parcels
 BRAC Parcel 75(6)
 - a) This parcel appears to be SEAD-64D which was included in BRAC parcel 56(5). In addition, the description does not agree with the location on Figure 5-1. This may have been confused with SEAD-64A which is also a disposal area.
 - b) Because both sites are scheduled for a RI/FS, it would be more appropriate to classify these sites Category 7 parcels.

- a) This parcel is associated with SEAD-64A. The text incorrectly stated SEAD-64D. The text has been corrected.
- b) See the response to Comment A-152.

Comment A-160:

#72 Page 5-25. Section 5.1.5 Category 6 Parcels

BRAC Parcel 77(6)

It would be more appropriate to classify the fire training pit, SEAD-26, as a Category 7 parcel because the results of the ESI indicated that more investigation, in the form of a RI/FS, was required. Currently the RI has been completed but the Feasibility Study and development of remedial actions have not been completed.

Response:

See the response to Comment A-152.

Comment A-161:

#73 Page 5-26. Section 5.1.5 Category 6 Parcels

BRAC Parcel 83(6)

SEAD-50 will not undergo a RI/FS. According to the ESI Report for Eight Moderately Low Areas of Concern, a Decision Document which would outline a limited sampling program and a removal action was recommended.

Response:

Comment noted. The text has been revised accordingly.

Comment A-162:

#74 Page 5-28. Section 5.1.5 Category 6 Parcels

BRAC Parcel 88(6)

Other sites, which were reported to have spills based on interviews with site personnel, were classified as Category 7 parcels. Therefore, this parcel should also be classified as

a Category 7 parcel because the dumping of PCB oil was based on an interview and more evaluation is required to confirm the information and to determine the impact to media.

Response:

We do not concur. Enough is known regarding this incident to lead Woodward-Clyde and the installation to conclude that, at a minimum, remedial actions involving removal of the stained soil will be required.

Comment A-163:

#75 Page 5-28. Section 5.1.5 Category 6 Parcels
BRAC Parcel 89(6)
See comment #77.

Response:

Reference to comment #77 (CRP Comment A-165) does not make sense. We believe the commentor is referring to comment #74 (CRP Comment A-162). In which case, see the response to Comment A-162.

Comment A-164:

#76 Page 5-28. Section 5.1.5 Category 6 Parcels
BRAC Parcel 90(6)

This parcel consists of the fire training and demonstration pad, which is a SWMU designated as SEAD-25. The results of the ESI indicated that the site should undergo a RI/FS. Therefore, this site should be classified as a Category 7 because further evaluation is required in the form of a RI/FS.

Response:

See the response to Comment A-152.

Comment A-165:

#77 Page 5-29. Section 5.1.5 Category 6 Parcels

BRAC 91(6)

A RI/FS Project Scoping Plan is being developed for this site, not an EIS Workplan as stated in the text.

Response:

Comment noted. The text has been revised accordingly.

Comment A-166:

#78 Page 5-29. Section 5.1.5 Category 6 Parcels

BRAC Parcel 93(6)

- a) The deactivation furnace, designated as SEAD-17, is operating under interim status as part of the Part B RCRA permit. Proper closure of the site must be conducted as part of the requirements of the RCRA permit. This information should be included in this section of the text.
- b) This site should be classified as a Category 7 parcel pending completion of closure.

Response:

- a) We concur. This information has been added to the text.
- b) See the response to Comment A-152.

Comment A-167:

#79 page 5-33. section 5.1.5 Category 6 Parcels

BRAC Parcel 102(6)

This parcel should be classified as a Category 7 parcel because more information is needed to determine if the evidence of spills on the dirt floor will require remedial actions.

Response:

We do not concur. We believe it is the installation's position that, at a minimum, remedial actions involving removal of the stained soil and confirmatory sampling will be required.

Comment A-168:

#80. Page 5-34. Section 5.1.5 Category 6 Parcels

BRAC Parcel 104(6)

A Project Scoping Plan for a CERCLA RI/FS is being developed for SEAD-66, not an ESI Workplan as stated in the text.

Response:

Comment noted. The text has been revised accordingly.

Comment A-169:

#81 Page 5-35. Section 5.1.5 Category 6 Parcels

BRAC Parcels 109(6) and 110(6)

The IRFNA site, which is designated as SEAD-134, is scheduled to undergo a RI/FS.

This site should be classified as Category 7 parcel because the results of the ESI indicated that more investigation and evaluation of the site is necessary.

Response:

See the response to Comment A-152.

Comment A-170:

#82 Page 5-35. Section 5.1.5 Category 6 Parcels

BRAC Parcel 111(6)

Buildings 813, 814, 815, 816, and 817 are located in the former Special Weapons Area.

These buildings are part of the SWMU designated as SEAD-12, which has been recommended to undergo a RI/FS.

Response:

See the response to Comment A-136b.

Comment A-171:

- #83 Page 5-36 Section 5.1.5 Category 6 Parcels BRAC Parcel 112(6)
 - a) Buildings 803, 804, and 805 and SEAD 12B are now included in the SWMU designated as SEAD-12. A Project Scoping Plan for a CERCLA RI/FS has been prepared for this site and includes an inspection of the interior of these buildings. It would be more appropriate to combine these buildings and the area of SEAD-12B into the same parcel as SEAD-12A.
 - b) Although Building 803 was classified as a No Action SWMU, the building is a RCRA storage facility operating under interim status. This facility must undergo a closure process as a requirement of the RCRA permit. This information should be added to the discussion.
 - c) These buildings should be classified as Category 7 parcels because of the pending RI/FS.

Response:

- a) See the response to Comment A-57.
- b) This information has been added to the text.
- c) See the response to Comment A-152.

Comment A-172:

#84 Page 5-37. Section 5.1.5 Category 6 Parcels

BRAC Parcel 115(6)

The North Administration Area was not described earlier. Is it part of the North Depot Area?

Response:

Yes. The text has been revised accordingly.

Comment A-173:

#85 Page 5-39. Category 6 Parcels

BRAC Parcel 120(6)

- a) The OB/OD grounds are currently operating under interim status under a RCRA Part B Permit. Proper closure is required for these sites. This information should be added to the description of this parcel. b) These sites should be classified as Category 7 parcels pending completion of closure requirements.
- c) Building T-2110 is not shown on Figure 5-1.
- d) In the second paragraph, the study was an ESI not as EIS.
- e) It would be more appropriate to separate the site designated as SEAD-70 from the other three sties. SEAD-70 has been impacted by PAHs in the sediments, and arsenic in the soil. A mini-risk assessment was recommended for this site. SEAD-45 and SEAD-57 have been impacted by explosives and other constituents associated with ordnance disposal. These two sites have been combined in a Project Scoping Plan for performing a CERCLA RIJFS.
- f) The area outlined on Figure 5-1 as Parcel 120(6) is much larger than the areas considered for SEAD-45 and SEAD-57 as shown in the Project Scoping Plan for SEAD-45 and SEAD-57. It is unclear why the boundaries for these sties were expanded.

Response:

- a) We concur. This information has been added to the text.
- b) See the response to Comment A-152.
- c) This building has been labeled on Figure 5-1.
- d) We concur. The text has been revised accordingly.
- e) We do not concur. Designation of a category is based on the environmental condition of the property, not on the particular contaminant constituents.
- f) This parcel also includes additional areas identified during the EBS field investigations that have been contaminated by training activities. This information has been added to the text.

Comment A-174:

Page 5-40. Section 5.1.5 Category 6 Parcels #86

BRAC Parcel 122(6)

This parcel should be SEAD-58, not SEAD-57 as stated in the text.

Response:

We concur. The text has been revised accordingly.

Comment A-175:

Page 5-41. Section 5.1.5 Category 6 Parcels #87

BRAC Parcel 134(6)

Other sites, which were determined to have releases based on interviews with SEDA personnel, were classified as Category 7 parcels. Therefore, this site should also be a Category 7 parcel because more information is required to determine whether a release has occurred and the media which have been impacted. The definition of a Category 6 parcel implies that storage, release, disposal, and/or migration has been confirmed, but required response actions have not yet been implemented. Therefore, rumored sites should be classified as Category 7, which are areas that require additional evaluation.

Response:

Rumored sites were evaluated based on interviews, visual inspections, and document searches. If the results of the evaluation provided sufficient evidence to support the conclusion that a release had occurred and that minimal remedial actions will be required, the area was designated as Category 6. If the evidence did not support this conclusion, then the site was designated as Category 7.

Comment A-176:

Page 5-42. Section 5.1.6 Category 7 Parcels #88 BRAC Parcels 130(7) and 131(7)

a) The Duck Pond Area is not located on the site map.

b) These parcels appear to be nearer to the former Special Weapons Area than to the Duck Ponds.

Response:

- a) See response to Comment A-56.
- b) We do not concur. Since these parcels are outside of the fence surrounding the Special Weapons Area, the Duck Ponds location is more appropriate.

Comment A-177:

#89 Page 5-42. Section 5.1.6 Category 7 Parcels

BRAC Parcel 132(7.)

Building 810 is included in SEAD-12, which will undergo a RI/FS.

Response:

See the response to Comment A-136b.

Comment A-178:

#90 Page 5-42. Section 5.1.6 Category 7 Parcels

BRAC Parcel 133(7)

Building 819 is included in SEAD-12, which will undergo a RI/FS.

Response:

See the response to Comment A-136b

Comment A-179:

#91 Figure 5-1

a) The following areas were presented in the text and should be shown on the site map:

Duck Pond Area

Elliot Housing

former Special Weapons Area

North Administration Area

- b) BRAC Parcel 97(6), which is also designated as SEAD-59, should extend on both sides of the access road to Building S-311.
- c) The PCB storage facility, Building 301, is shown as a Category 1 parcel on the figure.
- d) BRAC Parcel 56(5), which is also designated as SEAD-64D, should extend west to the railroad tracks. e) Building 2203 is not identified. f) SEAD-64D is also shown as BRAC Parcel 143Q-X. Results of the ESI did not indicate the presence of explosives at the site.
- g) BRAC Parcel 67(6), which is also designated as SEAD-4, should extend to the boundaries established for the RI/FS.
- h) BRAC Parcel 94(6) seem to include Building 310 and/or 366.
- i) BRAC Parcel 120(6) appears to be much larger than the combined areas of the SWMUs described in the text.

Response:

- a) See the response to Comment A-86.
- b) We concur. The boundary of this parcel has been extended on the figure.
- c) See the response to Comment A-136a.
- d) We concur. The boundary of this parcel has been extended.
- e) Facility 2203, a loading dock, has been labeled on Figure 5-1.
- f) We concur. Qualified Parcel 143Q-X actually corresponds with SEAD-24, as stated in Table 5-1b. Figure 5-1 has been revised accordingly.
- g) We concur. The boundary of this parcel has been extended to reflect the RI/FS Workplan dated July 1996.
- h) These buildings should not have been included in this parcel. The parcel boundary has been changed to reflect this.
- i) See the response to Comment A-173f.

Comment A-180:

#92 Page 5-44 Section 5.1.7 Qualified Parcels

It is not clear why only six sites were described in this section. The qualified parcels listed in Table 5-2 are not shown on Figure 5-1 as stated in the text. Some type of explanation would be helpful.

Response:

The text has been revised to describe all qualified parcels of open land in this section. Since they are numerous, qualified buildings are not described individually, but are listed in Table 5-1b.

Comment A-181:

#93 Page 5-44. Section 5.1.7 Qualified Parcels

BRAC Parcel 108Q-X

A Project Scoping Plan for a CERCLA RI/FS at SEAD-46 is being developed, not an ESI Workplan as stated in the text.

Response:

Comment noted. The text has been revised accordingly.

Comment A-182:

#94 Table 5-1

It is unclear why some of the BRAC Parcels are listed out of order. Specifically, BRAC Parcels 65(2), 114(3), and 134(6).

Response:

See the response to comment A-135c.

Comment A-183:

#95 Table 5-2

A legend for the qualifiers should be added at the end of the table.

Response:

We concur. A legend has been added to this table.

Comments on the Sampling and Analysis Recommendations

Comment A-184:

#1 Page 2 BRAC Parcel 94(6)

This BRAC parcel is the SWMU designated as SEAD-16. The Project Scoping Plan for that site should be reviewed to determine whether the surface soil sampling recommended in this report is already scheduled as part of a RI/FS.

Response:

This comment will be addressed in the Final SAR Report.

Comment A-185:

#2 BRAC Parcel 96(6)

This parcel was not listed as a site to be sampled, however, the EBS report stated that an interview conducted during the EBS revealed that petroleum had been released and paints and solvents may have been released in the area of Building 306.

Response:

See the response to Comment A-184.

Comment A-186:

#3 Page 3 BRAC Parcel 111(6)

Buildings 813 through 817 are located within the boundary of the SWMU designated as SEAD-12. These buildings are scheduled to be screened for radionuclides as part of a RI/FS field program which has been outlined in the Project Scoping Plan. This Project Scoping Plan should be reviewed to determine if the surface soil sampling and groundwater monitoring well installation recommended in this report have already been scheduled for the RI/FS.

Response:

See the response to Comment A-184.

Comment A-187:

#4 Page 5 Item 2(e)

Areas where unknown materials were buried which will be investigated by trenching should be conducted using Level B personnel protective equipment.

Response:

See the response to Comment A-184.

RESPONSES TO COMMENTS ON THE SENECA ARMY DEPOT ACTIVITY, NEW YORK DRAFT FINAL ENVIRONMENTAL BASELINE SURVEY REPORT DATED OCTOBER 30, 1996

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- B.1 RESPONSES TO INSTALLATION COMMENTS ON THE DRAFT FINAL EBS REPORT
- B.1.1 RESPONSES TO SENECA ARMY DEPOT ACTIVITY COMMENTS ON THE DRAFT FINAL EBS REPORT

ENTITY:

Seneca Army Depot Activity

INDIVIDUAL:

Mr. Stephen Absolom

TITLE:

BRAC Environmental Coordinator

DATE:

February 20, 1997

Comment B-1:

A marked copy of Table 2-3 from the Draft Final EBS Report was submitted as comments.

Response:

These revisions have been incorporated into the Final EBS Report.

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- B.2 RESPONSES TO U.S. ENVIRONMENTAL PROTECTION COMMENTS ON THE DRAFT FINAL EBS REPORT
- B.2.1 RESPONSES TO U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II
 COMMENTS ON THE DRAFT FINAL EBS REPORT

ENTITY:

U.S. Environmental Protection Agency, Region II

INDIVIDUAL:

Carla Struble, P.E.

TITLE:

Federal Facilities Section

DATE:

January 24, 1997

Comment B-2:

This is with regard to the revised draft Environmental Baseline Survey Report (EBS) prepared by Woodward-Clyde for SEDA through the U.S. Army Corps of Engineers New York District and Seattle District. Appendix A only included responses to EPA comments dated July 15, 1996, but responses to EPA's August 9, 1996 comments on the Draft Sampling Analysis Recommendations (SAR), and our October 7, 1996 comments on the BRAC 1995 Enclave Sites were not addressed. EPA would like to facilitate SEDA's efforts to accommodate the greatest amount of property for lease or transfer. To that end, we would like to see our comments addressed to the greatest extent possible. After reviewing Woodward-Clyde's response in Appendix A to EPA's July 15, 1996 comments, the remaining issues are discussed below.

Response:

Comment noted. The August 9, 1996 comments on the Draft Sampling and Analysis Recommendations (SAR) were not addressed in the Draft Final EBS Report because they will be addressed in the Final SAR Report. The October 7, 1996 comments are reproduced at the end of this section (see Comments B-9 and B-10) for convenience, and responses to these comments are now provided.

Comment B-3:

Original Comment:

CERFA Parcel Map - Figure 5.1

The CERFA Parcel Map should show and label Reeder Creek, Kendia Creek, Indian Creek, etc., and the 72 SEADs identified in the Solid Waste Management Unit (SWMU) Classification Report for the Seneca Army Depot Activity finalized by the Army in September 1994. To help expedite EPA's review and concurrence on real property SEDA, an updated Plate 1-1 "Solid Waste Management Unit Locations" from the SWMU Classification Report is desirable. This map should preferably be a transparent overlay which could be placed over the CERFA Parcel Map and the LRA's Reuse map.

Army Response:

As we discussed on January 9, 1997, Woodward-Clyde states that this is outside the scope of work for preparation of the EBS. You indicated that a transparent overlay which could be placed over the CERFA Parcel Map and the LRA's Reuse map (an updated Plate 1-1 "Solid Waste Management Unit Locations" from the SWMU Classification Report) may be available. EPA would find such a map beneficial in expediting our concurrence.

Response:

The installation will work with EPA and provide them with requested maps.

Comment B-4:

Original Comment:

SECTION THREE: Property Characterization

Page 3-5 Table - MAIN DEPOT MUNITIONS STORAGE: For each facility and igloo listed, it should be noted whether or not munitions were stored there. If so, specifically what types of munitions are/were they, for how long they were stored, whether the munitions were stored for eventual use or demilitarization, destruction and disposal, whether or not a release had occurred. If not, can the Army certify that no releases occurred? When describing the function of Facility 2202, "STR SHEN-GP INS" needs to be explained.

Woodward-Clyde's Response:

The Army's contractor believes that information on the type of munitions, the length of storage, or the eventual use is not pertinent to the determination of the environmental condition of the property.

EPA disagrees and encourages the Army to determine if this information is available.

Response:

The detailed information requested is not available. However, storage of munitions precludes a release given that the munitions are stored in sealed containers. During the course of the EBS records review, interviews, and visual inspections, documented evidence of a release related to munitions storage was not found.

Comment B-5:

Original Comment:

SECTION 4.3 - Sources of Potential Contamination From Adjacent or Surrounding Property: A location map should be developed to supplement this section which shows SEDA and all potential sources of contamination described in the text and in the tables of this section. The directions of groundwater flow/groundwater elevations should also be provided. This map should be drawn to scale and preferably larger than 8-1/2 inches by 11 inches.

Woodward-Clyde's Response:

An additional figure addressing this comment has been included in Section Four.

The direction of groundwater flow is toward the west in Figure 4-1, but other SEDA documents submitted to EPA have stated that there is evidence of a groundwater divide near Route 96 on the eastern flank of SEDA. East of the divide groundwater flows into Cayuga Lake and west of the divide it flows into Seneca Lake. This discrepancy should be clarified and the figure corrected as needed.

Seneca Lake, Kendaia Creek and the lake housing should be included in this figure. The SEDA property boundary, including the lake housing and property surrounding Kendaia Creek, should be enhanced to be distinguishable from the roadways. Why is SR 96 red?

Response:

The discrepancy regarding the groundwater information has been rectified and the figure revised accordingly.

The additional information has been added and other modifications made to the figure as requested.

State Route 96 is in red because it is a primary highway and this has been added to the legend.

Comment B-6:

Original Comment:

APPENDIX A - Database Search Report - Spill Records:

Page #17 through Page #27 lists State Record Details of Spills, Lusts and Cleanups but no locations are given. None of the property on or adjacent to these incidences should be classified by the Army as Category 1.

Woodward-Clyde's response:

It is stated that a revised map showing all the locations has been included in the revised draft EBS report, but the figure number or map location has not been not provided.

Response:

The information presented in the appendix is a reproduction of a report provided by a subcontractor. This information was requested prior to the EBS site visit and was used as a starting point. The information in the appendix is not longer current. Tables 2-3 and 2-4 present incidents of spills and LUSTs, respectively, that are current and consistent with the installation's records. They represent the most up-to-date information available on historic spills and LUSTs at the Seneca Army Depot Activity. Areas corresponding to incidents of the release of hazardous substances or petroleum products have been appropriately assigned to parcels designated as either Category 3, 4, 5 or 6. To assist in locating these areas on Figure 5-1, the parcel labels and numbers have been added to Tables 2-3 and 2-4 in the Final EBS Report.

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Comment B-7:

Additional Comment:

As we discussed on January 9, 1997, in addition to the CERFA map, EPA's concurrence on the Army's uncontaminated parcels would be facilitated by separating the CERFA map into 8 1/2" X 11" figures. You agreed that these figures could be provided.

Response:

Woodward-Clyde has provided EPA with the requested 8 1/2" x 11" figures.

Comment B-8:

The comments of EPA as offered here in response to the Revised Draft EBS should not yet be construed as EPA concurrence on the uncontaminated parcel determinations as offered by the Army. The extent of EPA's concurrence on uncontaminated parcels will be contingent upon the Army's response to our July 15, 1996, August 9, 1996, October 7, 1996 comments, those mentioned above and EPA's final review of the revised Draft EBS already submitted. Formal EPA concurrence on the Army's uncontaminated parcel determinations will subsequently by provided by Region II of EPA after its review of any Army responses and the revised Draft EBS. During our last BRAC Cleanup Team meeting, the Army informed us that SEDA became final on the Base Closure List on September 28, 1995.

Response:

Comment noted.

Comment B-9:

In September 1996, EPA received a letter from Tetra Tech, Inc. regarding their preparation of the Draft Disposal and Reuse Environmental Impact Statement for SEDA. Included in the correspondence, was a list of the BRAC 95 Enclave Sites at SEDA, with a location map of the Enclave Sites. It appears that some information regarding these enclave sites (strategic war reserve ore piles and hazardous materials warehouses) has been omitted from the Draft EBS Report and Draft SAR. EPA commented on the Draft EBS and Draft SAR on July 15, 1996 and August 9, 1996 respectively, but have not yet received the revised documents. EPA would like to facilitate SEDA's efforts to accommodate the greatest amount of property for lease or

transfer. To that end, we would like to see our comments below addressed by revision to the draft EBS, CERFA Parcel Map, draft SAR, etc.

Warehouse Buildings 350, 348, 347, 339 and 357 are listed by Tetra Tech as BRAC 95 Enclave Sites, but not identified on the EBS CERFA map as BRAC parcels, they are not listed in Table 5-1 (BRAC Parcel Descriptions) and not included in text of Section Five which describes the BRAC parcels. The text, tables and CERFA map of the EBS should incorporate the appropriate information, even though EBS Section 4.5 states that the strategic ore piles and hazardous materials warehouses are likely to be retained by DoD.

Response:

All of these issues were addressed in the Draft and Draft Final EBS Reports. In these reports, all of the listed warehouses were included in Parcel 3(1). Even though they may be used for hazardous storage in the future, at the time of the EBS investigation, none of these warehouses was documented as having stored hazardous materials. Subsequent to the submittal of the Draft Final EBS Report, documentation was found indicating that Building 357 had been used for hazardous materials storage and that releases had occurred inside of the building. This warehouse has been designated as Category 3 in the Final EBS Report. Ore piles containing materials with known hazardous constituents have been designated as distinct Category 6 parcels in all three reports.

Comment B-10:

Strategic Ore Piles: Section Five describes these ore piles as hazardous materials, where USATHAMA has concluded that the uncovered ore could migrate into the environment through air dispersal of dust particulate or transport of particulate through surface water runoff. What sampling is DoD proposing to determine if the ore piles are sources of contamination to adjacent or surrounding property that DoD does plan to transfer or lease? The SAR should be revised to address this concern.

Response:

This comment is on the Draft SAR Report and will be addressed in the Final SAR Report.

B.3 RESPONSES TO STATE COMMENTS ON THE DRAFT FINAL EBS REPORT

B.3.1 RESPONSES TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION COMMENTS ON THE DRAFT FINAL EBS REPORT

ENTITY:

New York State Department of Environmental Conservation

INDIVIDUAL:

Kamal Gupta

TITLE:

Bureau of Eastern Remedial Action, Division of Environmental

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Remediation

DATE:

December 26, 1996

Comment B-11:

1. Our comment number 9 (iii)(b) addressed the Army's rumor list. We requested confirmation of listed disposal activities either through a reliable source or by an appropriate sampling and analysis program. The Army in response to our comment stated that reasonable efforts have been expended, including interviews, record review, and visual inspections to conclude that no additional investigation is warranted. However, the reasons given for elimination of rumor list item number 4, 6, 8, 9, 10, 11, 12, 13, 14, and 17 in Table 4-3 of section 4 of EBS report are not satisfactory. All these listed items have been eliminated based on interviews with persons who have questionable knowledge of the stated disposal activity. For some activities the EBS states rumor confirmed or conflicting information obtained, but still proposes no further action. For each rumored disposal activity, the Army should provide an authentic source, which should contradict the rumored disposal activity to justify its elimination from further investigation. Without such documentation we cannot accept a no further action for these listed items.

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Response:

Regarding item number 4, which involves potential dumping in former farm water wells, it is the position of the U.S. Army that Seneca's existing groundwater monitoring program should detect problems if there are any. From the perspective of the EBS, without specific locations of these alleged activities it is not possible to designate a specific environmental condition of 'property parcel.

Regarding item number 6, concerning coal storage north of the salt storage building and elsewhere. The U.S. Army has agreed to investigate the former coal storage area north of the salt storage building and an additional Category 7 parcel has been added to the Final EBS Report. Locational information concerning any other coal storage areas was not available and, therefore, no other additional parcels could be designated.

Regarding item number 8, concerning the burial of drums in a hill north of Post 3. Although no evidence was found to confirm the reported activity, the U.S. Army has agreed to investigate this area. An additional Category 7 parcel has been added to the Final EBS Report.

Regarding item number 9, concerning rumored burial of DDT cans under the "ice rink." Although no evidence was found to confirm the reported activity, the U.S. Army has agreed to investigate this area. An additional Category 7 parcel has been added to the Final EBS Report.

Regarding item number 10, which concerns a reported filled-in pond. Installation personnel reviewed aerial photographs dated from the time the installation was being built. No evidence of ground disturbance or a pond in the location reported was observed.

Regarding item number 11, concerning a berm and roads in the vicinity of Building 309. A tentative location for this activity was identified and designated parcel 109(7) in the Draft Final EBS Report.

Regarding item number 12, concerning a concrete plant and staging area. Installation personnel reviewed aerial photographs dated from the time the installation was being built. Evidence of a concrete plans was not observed in a circa 1941 photograph; however, a staging area near Post 2 was observed. This area is included in Parcel 57(6).

Regarding item number 13, concerning the cleaning of loading docks. This activity cannot be confirmed because there is no identified location for the alleged activity. Without a specific location for this activity, it is not possible to designate a specific environmental condition at property parcel.

Regarding item number 14, concerning coal ash south of Building 123. The U.S. Army has agreed to investigate this area and an additional Category 7 parcel has been added to the Final EBS Report.

Regarding item number 17, concerning herbicide treated soil and for fill along a portion of the "Q-Area" fenceline. This item corresponds with a portion of the previously identified SWMU, SEAD-51. A No Action agreement has been reached regarding this SWMU.

Comment B-12:

2. Table 2-3 - Spill List: A comparison of the table found in the draft EBS and the draft final EBS reveals a number of discrepancies. Agency identification numbers, quantities spilled, facilities involved, and dates of occupancy listed in the draft final version differ significantly from the original table. Please have the consultant correct these differences and provide an accurate summary of spills at the Depot which have been reported to the NYSDEC.

Response:

The spill list presented in the Draft EBS Report was not consistent with installation records and was revised for the Draft Final EBS Report. These changes were made based on information provided by the installation. A few additional changes have been made to the spill list in the Final EBS Report (see Comment B-1), which is consistent with installation records.

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B.4 RESPONSES TO U.S. ARMY MATERIAL COMMAND COMMENTS ON THE DRAFT FINAL EBS REPORT

The U.S. Army Materiel Command did not comment on the Draft Final EBS Report.

B.5 RESPONSES TO U.S. ARMY ENVIRONMENTAL CENTER COMMENTS ON THE DRAFT FINAL EBS REPORT

The U.S. Army Environmental Center did not comment on the Draft Final EBS Report.



B.6 RESPONSES TO U.S. ARMY CORPS OF ENGINEERS COMMENTS ON THE DRAFT FINAL EBS REPORT

The U.S. Army Corps of Engineers did not comment on the Draft Final EBS Report.

B.7 RESPONSES TO OTHER COMMENTS ON THE DRAFT FINAL EBS REPORT

No other agencies commented on the Draft Final EBS Report.

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APPENDIX B DATABASE SEARCH REPORT

VISTA INFORMATION SOLUTIONS

FACILITY RISK PROFILE

Client Project/P.O. No.:

VISTA Report No.:

088933011

Client Reference Name:

Date of Report:

Nov. 9, 1995

SITE DESCRIPTION

SENECA ARMY DEPOT

ROMULUS, NY

14541

SENECA COUNTY

ADDITIONAL SEARCH CRITERIA

Facility Names:

- 1) ARMY
- 2) GSA-Q
- 3) USDOD
- 4) OLD SAMPSON
- 5) COAST GUARD

Street Names:

1) THIRD 2) BLDG 3) BUILDING 4) SENECA 5)

ARMY 6) RT-414 7) RT-96 8) SDSSE 9) SMITH

A search of the VISTA Environmental Database found facility record(s) which fit the above site descriptions and/or additional search criteria. The following is a summary of the combined risks listed in those records:

Summary of Environmental Risks at Site

Records of Existing or Potential Contamination

- Site is a Federal Superfund Site(NPL)
- Site is listed on the US EPA's Evaluation System(CERCLIS)
- Site has had RCRA Corrective Actions imposed(CORRACTS)
- Site has reported spill incidents (ERNS)
- Site is on State cleanup list (SPL/SCL)
- Site has reported incidence of Leaking Underground Storage Tanks (LUST)
- Site has reported spill incidents listed in the State's Spill Database (SPILLS)

Records of Hazardous Materials or Environmental Permits

See the last two pages for a description of how this report is produced and the agency lists searched.

(Rev. 5.01, Oct 20 1995. ())

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Nov. 9, 1995-Report #-088933011

For more info call: (619) 450-6100

- Site is a hazardous waste treatment/storage/disposal facility(RCRIS TSD)
- Site generates hazardous waste(RCRIS Generator)
- Site has a permit to discharge waste water (PCS)
- Site produces regulated air emissions(AIRS)
- Site operates a public drinking water system (FRDS)
- Site listed in the EPA FINDS system(FINDS)
- Site utilizes storage tanks(UST/AST)

Records of Environmental Non-Compliance

• Site has violations under the RCRA program(RCRIS)

INVENTORY OF ENVIRONMENTAL RECORDS REVIEWED Records of Existing and Potential Contamination

		List	Record	Rec. Not
Agency/Database	Type of Record	Available	Found	Found
US EPA NPL	FEDERAL SUPERFUND SITE	Y	Х	
US EPA CERC/NFRAP	CERCLIS(C)/NFRAP(N) SITE	Y	· C	
US EPA CORRACTS	CORRECTIVE ACTIONS SITE	Υ	. X	
US EPA ERNS	SPILL NOTIFICATION	Y	X	
STATE SPL/SCL	CONTAMINATED SITE	Y	X	
STATE LUST	LEAKING TANKS SITE	Y	X	
STATE SOLID WASTE	SOLID WASTE SITE	Y		X
STATE SPILL	SPILL SITE	Y	X	

Records Indicating Hazardous Materials or Environmental Permits Present

		List .	Record	Rec. Not
Agency/Database	Type of Record	Available	Found	Found
US EPA RCRIS	HAZ WASTE TSD SITE	Y	Х	
US EPA RCRIS	HAZ WASTE TRANSPORTER	Y		X
US EPA RCRIS	HAZ WASTE GENERATOR	Y	X	
US EPA PADS	PCB HANDLER	Y		X
US EPA CICIS	CHEMICAL PRODUCER SITE	. Y		X
US EPA TRIS	TOXIC CHEMICAL RELEASES	Y		X
US EPA PCS	WASTE WATER PERMIT	Y	X	
US EPA AIRS	REGULATED AIR EMISSIONS	Y	X	
US EPA FATES	PESTICIDES PROCESSOR	Y		X
US EPA FRDS	PUBLIC WATER SUPPLY	Y	X	
US EPA FINDS	FACILITY INDEX SYSTEM	Y	X .	•
STATE UST/AST	TANK SITES	Y	х	

Records of Environmental Compliance

	List	Record	Rec. Not
Type of Record	Available	Found	Found
RCRA COMPLIANCE	Y	Х	
RCRA ADMIN. ACTIONS	Y		X
NPDES COMPL/ENF	Y		X
AIR EMISSION COMPLIANCE	Y		X
FIFRA/TSCA/EPCRA COMP	Y		X
OSHA COMPLIANCE	Y		X
RESPONSIBLE PARTY	Y		X
CIVIL JUDICIAL ACTIONS	Y		X
	RCRA COMPLIANCE RCRA ADMIN. ACTIONS NPDES COMPL/ENF AIR EMISSION COMPLIANCE FIFRA/TSCA/EPCRA COMP OSHA COMPLIANCE RESPONSIBLE PARTY	Type of Record Available RCRA COMPLIANCE Y RCRA ADMIN. ACTIONS Y NPDES COMPL/ENF Y AIR EMISSION COMPLIANCE Y FIFRA/TSCA/EPCRA COMP Y OSHA COMPLIANCE Y RESPONSIBLE PARTY Y	Type of Record Available Found RCRA COMPLIANCE Y X RCRA ADMIN. ACTIONS Y NPDES COMPL/ENF Y AIR EMISSION COMPLIANCE Y FIFRA/TSCA/EPCRA COMP Y OSHA COMPLIANCE Y RESPONSIBLE PARTY Y

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: NOT REPORTED

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA#

: 1211676

FRDS Record Details

No details available for this list

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: BLDG 118 THIRD AVENUE

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA#

: 3537044

State Spill Record Details

Agency ID Number:9204312

Owner Information

Resp. Name:

U S ARMY

Spill Details

Incident Date:

07/15/92

Substance:

DIESEL

Quantity:

2.00 GALLONS

Media Affected:

SOIL/LAND/SAND

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: BLDG 330

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA #

: 4253884

State Spill Record Details

Agency ID Number:9306000

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Spill Details

Incident Date: 08/16/93

Substance: HAZARDOUS

Quantity: 5.00 GALLONS

Media Affected: SOI

SOIL/LAND/SAND

Spill Cause:

HUMAN ERROR

Remediation Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: BLDG 710

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA#

: 4112546

LUST Record Details

Agency ID Number:8907242

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. City:

ROMULUS NY

LUST Details

Leak Date:

10/20/89

Substance:

FUEL OIL #2

Media Affected:

SOIL/LAND/SAND

Leak Source:

NON-COMMERCIAL INDUSTRY

Remed. Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: BLDG 806

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA #

: 4112547

LUST Record Details

Agency ID Number:8907722

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. City:

ROMULUS NY

LUST Details

Leak Date:

11/01/89

Substance:

FUEL OIL #2

Media Affected:

GROUNDWATER

Leak Source:

NON-COMMERCIAL INDUSTRY

Remed. Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: BUILDING #212

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA #

: 4112548

LUST Record Details

Agency ID Number:8910053

Owner Information

Resp. Name:

SENECA ARMY DEPOT

LUST Details

Leak Date:

01/19/90

Substance:

FUEL OIL #2

Media Affected:

FUEL OIL #2

Leak Source:

NON-COMMERCIAL INDUSTRY

STREET/GUTTER/SEWER

Remed. Status:

General Records Found Under Site Description.

Facility Name

: SENECA ARMY DEPOT

Facility Address

: 2452 QUARTERS AREA

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA #

: 3539976

LUST Record Details

Agency ID Number:9204266

Owner Information

Resp. Name:

U S ARMY

Resp. Address:

SAME

LUST Details

Leak Date:

07/14/92

Substance:

FUEL OIL #2

Media Affected:

GROUNDWATER

Leak Source:

NON-COMMERCIAL INDUSTRY

Remed. Status:

CASE CLOSED/CLEANUP COMPL

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General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT 1

Facility Address

: ROUTE 414

Facility City/Zip

: ROMULUS, NY

Facility County

: NOT REPORTED

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA#

: 1123647

State Spill Record Details

Agency ID Number:8801942

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. Address:

ROUTE 414

Resp. City:

ROMULUS NY

Spill Details

Incident Date:

06/01/88

Substance:

UNKNOWN

Media Affected:

SURFACE WATER

Spill Cause:

UNKNOWN

Remediation Status:

General Records Found Under Site Description

Facility Name

: OLD SAMPSON AIR FORCE BAS

Facility Address

: ROUTE 414

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA #

: 1531488

State Spill Record Details

Agency ID Number:9100783

Spill Details

Incident Date:

07/19/89

Substance:

PCB OIL

Media Affected:

SOIL/LAND/SAND

Spill Cause:

SLOPPY 'HOUSEKEEPING'/REL

Remediation Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: ROUTE 96 EAST BLDG 367

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS, 14541

VISTA #

: 4716365

State Spill Record Details

Agency ID Number:9310872

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Spill Details

Incident Date:

12/06/93

Substance: .

UNKNOWN

Media Affected:

SOIL/LAND/SAND

Spill Cause:

DUMPING

Remediation Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: ROUTE 96A AIRFD BLDG 2305

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA #

: 1521704

LUST Record Details

Agency ID Number:9400104

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. City:

ROMULUS

LUST Details

Leak Date:

04/04/94

Substance:

FUEL OIL #2

Quantity:

100.00 GALLONS

Media Affected:

SURFACE WATER

Leak Source:

NON-COMMERCIAL INDUSTRY

Remed. Status:

CASE CLOSED/CLEANUP COMPL

LUST Record Details

Agency ID Number:9307284

Owner Information

Resp. Name:

US ARMY SENECA DEPOT

Resp. Address:

SAME

LUST Details

Leak Date:

09/15/93

Substance:

FUEL OIL #2

Quantity:

20.00 GALLONS

SENECA ARMY DEPOT (continued)

Media Affected: SOIL/LAND/SAND

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE OPEN

LUST Record Details

Agency ID Number:9209672

Owner Information

Resp. Name: IT CORPORATION

Resp. Address: 140 ALLENS CREEK RAD

Resp. City: ROCHESTER, NY

LUST Details

Leak Date: 11/19/92

Substance: FUEL OIL #2

Quantity: 1700.00 GALLONS

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

State Spill Record Details

Agency ID Number:9400104

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. City: ROMULUS

Spill Details

Incident Date: 11/26/94

Substance: NON-PCB OIL

Quantity: 2.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: AUTO ACCIDENT

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT BLG 331

Facility Address

: ROUTE 96A BLDG 331

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS, 14541

VISTA #

: 3860421

State Spill Record Details

Agency ID Number:9409986

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. Address:

ROUTE 96

Resp. City:

ROMULUS, NY 14541-5001

Spill Details

Incident Date:

10/24/94

Substance:

DIESEL

Media Affected:

GROUNDWATER

Spill Cause:

HUMAN ERROR

Remediation Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: RTE 96

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA#

: 1340589

Industry Description

Sic Code:8999 - SVC-SERVICES NEC

State Clean-Up Record Details

EPA ID Number: NY0213820830

Agency ID Number:850006

Owner Information

Owner Name:

U.S. ARMY

Owner Address:

ROUTE 96A

Owner City:

ROMULUS

Owner State:

NΥ

Site Information

Facility Type:

OPEN DUMP

NPL Status:

State Status:

REMEDIAL ACTION PENDING

Waste #1:

AMMUNITION WASTE

Waste #2:

CHLORINATED SOLVENTS

Additional Details:

Detailed Site Description Available. Call 1-800-877-3824 for Details.

RCRA Record Details

EPA ID Number: NY0213820830

Generator Details

Waste Quantity Class:

Generates at least 1000 kg./month of non-acutely hazardous waste (or 1

kg./month of acutely hazardous waste).

RCRA Record Details

EPA ID Number: NY0213820830

TSD Details

TSD Activities This facility is engaged in the treatment/storage and or disposal of

hazardous waste

Incinerator Universe: VERIFIED INCINERATOR FACILITY.

Storage Treatment Universe: VERIFIED STORAGE/TREATMENT FACILITY.

Violations: TSD Closure/Post Closure Req. Viol.: This handler has violations

outstanding in the Closure/Post Closure Area

State Spill Record Details

Agency ID Number:9402630

Owner Information

Resp. Name: US ARMY/ SPRAGUE ENE

Spill Details

Incident Date: 05/23/94

Substance: FUEL OIL #6

Quantity: 40.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: OVERFILL/OVERFLOW

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9402116

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: SAME

Spill Details

Incident Date: 05/12/94

Substance: DIESEL

Quantity: 15.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9400993

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: ROUTE 96

Resp. City: ROMULUS, NY

Spill Details

Incident Date: 04/13/94

Substance: UNKNOWN

Quantity: 530.00 POUNDS

Media Affected: AIR

Spill Cause: HUMAN ERROR .

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9011429

Owner Information

Resp. Name: US ARMY/PETROL MGT S

Resp. Address: ROUTE 96A BLDG 2305

Resp. City: ROMULUS, NY 14541

Spill Details

. Incident Date: 01/22/91

Substance: FUEL OIL #2

Quantity: 25.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: OVERFILL/OVERFLOW

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

LUST Record Details

Agency ID Number:9402630

Owner Information

Resp. Name: US ARMY/ SPRAGUE ENE

LUST Details

Leak Date: 02/12/90

Substance: GASOLINE (UNSPECIFIED)

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

LUST Record Details

Agency ID Number:9402116

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: SAME

LUST Details

Leak Date: 09/22/88
Substance: JET FUEL

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY
Remed. Status: CASE CLOSED/CLEANUP COMPL

LUST Record Details

Agency ID Number:9400993

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: ROUTE 96

Resp. City: ROMULUS, NY

LUST Details

Leak Date: 12/08/87

Substance: GASOLINE (UNSPECIFIED)

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY
Remed. Status: CASE CLOSED/CLEANUP COMPL

LUST Record Details

Agency ID Number:9011429

Owner Information

Resp. Name: US ARMY/PETROL MGT S

Resp. Address: ROUTE 96A BLDG 2305

Resp. City: ROMULUS, NY 14541

LUST Details

Leak Date: 11/16/87

Substance: FUEL OIL #2

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

State Spill Record Details

Agency ID Number:8910830

Owner Information

Resp. Name: SENECA ARMY DEPOT

Spill Details

Incident Date: 10/05/87

> Substance: FUEL OIL #6

Quantity: **3000.00 GALLONS**

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:8805363

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: ROUTE 96

> Resp. City: ROMULUS NY

> > Spill Details

Incident Date: 02/25/93

> Substance: **SEWAGE**

500.00 GALLONS Quantity:

Media Affected: SOIL/LAND/SAND

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID-Number:8707703

Owner Information

SENECA ARMY DEPOT Resp. Name:

Resp. Address: ROUTE 96

> Resp. City: ROMULUS NY

> > Spill Details

Incident Date: 03/01/93

> Substance: DIESEL

80.00 GALLONS Quantity:

Media Affected: SOIL/LAND/SAND

SENECA ARMY DEPOT (continued)

Spill Cause: OTHER CAUSE

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:8706958

Owner Information

SENECA ARMY DEPOT BL Resp. Name:

ROUTE 96 Resp. Address:

> Resp. City: ROMULUS NY

> > Spill Details

11/30/92 Incident Date:

> NON-PCB OIL Substance:

30.00 GALLONS Quantity:

Media Affected: SOIL/LAND/SAND

Spill Cause: **HUMAN ERROR**

CASE CLOSED/CLEANUP COMPLETE Remediation Status:

State Spill Record Details

Agency ID Number:8705646

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: ROUTE 96A

> ROMULUS NY Resp. City:

> > Spill Details

11/09/92 Incident Date:

> FUEL OIL #2 Substance:

15.00 GALLONS Quantity:

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9213269

Owner Information

SENECA ARMY DEPOT Resp. Name:

Resp. Address: SAME Spill Details

Incident Date: 10/28/92

Substance: HAZARDOUS

Quantity: 3.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: HUMAN ERROR

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9213247

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: SAME

Spill Details

Incident Date: 09/23/92

Substance: FUEL OIL #2

Quantity: 10.00 GALLONS

Media Affected: GROUNDWATER

Spill Cause: HUMAN ERROR

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

LUST Record Details

Agency ID Number:8910830

Owner Information

Resp. Name: SENECA ARMY DEPOT

LUST Details

Leak Date: 09/22/92

Substance: FUEL OIL #2

Media Affected: SOIL/LAND/SAND

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

State Spill Record Details

Agency ID Number:9210155

Owner Information

Resp. Name: R L BATES

Resp. Address: CONTRACTOR

Spill Details

Incident Date: 0

09/09/92

Substance:

HAZARDOUS

Quantity:

252.00 GALLONS

Media Affected:

SOIL/LAND/SAND

Spill Cause:

HUMAN ERROR

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9209232

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. Address: SAME

Spill Details

Incident Date:

09/08/92

Substance:

WASTE OIL

Media Affected:

SOIL/LAND/SAND

Spill Cause:

HUMAN ERROR

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9208729

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. Address: SAME

Spill Details

Incident Date:

10/30/91

Substance:

HAZARDOUS

Quantity:

5.00 GALLONS

Media Affected:

SOIL/LAND/SAND

Spill Cause:

HUMAN ERROR

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

LUST Record Details

Agency ID Number:8805363

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: ROUTE 96

Resp. City: ROMULUS NY

LUST Details

Leak Date: 09/13/91

Substance: FUEL OIL #2

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

LUST Record Details

Agency ID Number:8707703

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: ROUTE 96

Resp. City: ROMULUS NY

LUST Details

Leak Date: 09/10/91

Substance: GASOLINE (UNSPECIFIED)

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

State Spill Record Details

Agency ID Number:9207312

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: SAME

Spill Details

Incident Date: 04/23/91

Substance: HAZARDOUS

Quantity: 45.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: UNKNOWN

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9207220

Owner Information

Resp. Name: SENECA ARMY DEPOT PR

Resp. Address: SAME

Spill Details

Incident Date: 04/17/91

Substance: JET FUEL

Quantity: 18.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9206730

Owner Information

Resp. Name: US ARMY

Resp. Address: RTE 96

Resp. City: ROMULUS N.Y.

Spill Details

Incident Date: 05/23/95

Substance: NON-PCB OIL

Quantity: 5.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9206638

Owner Information

Resp. Name: US ARMY

Spill Details

Incident Date: 01/04/95

Substance: DIESEL

Quantity: 100.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

SENECA ARMY DEPOT (continued)

Remediation Status: CASE OPEN

LUST Record Details

Agency ID Number:8706958

Owner Information

Resp. Name:

SENECA ARMY DEPOT BL

Resp. Address:

ROUTE 96

Resp. City:

ROMULUS NY

LUST Details

Leak Date:

12/08/94

Substance:

FUEL OIL #2

Media Affected:

SOIL/LAND/SAND

Leak Source:

NON-COMMERCIAL INDUSTRY

Remed. Status:

CASE CLOSED/CLEANUP COMPL

FINDS Record Details

EPA ID Number: NY0213820830

Agency Id Information

Program Name:

Haz Waste

Agency Id:

NY0213820830

Program Name:

NPDES

Agency Id:

NY0021298

Program Name:

AIR

Agency 1d:

3609900003

Program Name:

AIR

Agency Id:

3609900011

Program Name:

CERCLIS

Agency Id:

NY0213820830

Program Name:

Fed Activities

Agency Id:

NY-213820830

SENECA ARMY DEPOT (continued)

Program Name: Fed Activities Agency Id: NY-971520830

Program Name: TOXICS-PADS

Agency Id: NY0213820830

General Records Found Under Site Description

Facility Name : SENECA ARMY DEPOT

Facility Address : SDSSE-AD

Facility City/Zip : ROMULUS, NY 14541

Facility County : SENECA VISTA # : 374101

NPL Record Details EPA ID Number:NY0213820830

General Records Found Under Site Description

Facility Name

: US COAST GUARD LORAN STATION S

Facility Address

: SENCA ARMY DEPOT

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA#

: 445447

State Spill Record Details

Agency ID Number:9306216

Owner Information

Resp. Name:

US COAST GUARD

Spill Details

Incident Date:

08/21/91

Substance:

DIESEL

Media Affected:

GROUNDWATER

Spill Cause:

OTHER CAUSE

Remediation Status:

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT BG 2079

Facility Address

: SENECA ARMY BLDG 2079

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA#

: 4719832

LUST Record Details

Agency ID Number:9307375

Owner Information

Resp. Name:

SENECA ARMY DEPOT

LUST Details

Leak Date:

09/17/93

Substance: FUEL OIL #6

Media Affected: SOIL/LAND/SAND

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT BLD 357

Facility Address

: SENECA ARMY DEPOT BLG 357

Facility City/Zip

: ROMULUS, NY

Facility County

: NOT REPORTED

VISTA Enhanced

City/Zip

: ROMULUS, 14541

VISTA #

: 1356147

State Spill Record Details

Agency ID Number:9004170

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. Address:

SAME

Spill Details

Incident Date:

07/13/90

Substance:

HAZARDOUS

Quantity:

5.00 GALLONS

Media Affected:

SOIL/LAND/SAND

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

LUST Record Details

Agency ID Number:9004170

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. Address:

SAME

LUST Details

Leak Date:

12/19/87

Substance:

GASOLINE (UNSPECIFIED)

Media Affected:

GROUNDWATER

SENECA ARMY DEPOT BLD 357 (continued)

Leak Source: NON-COMMERCIAL INDUSTRY
Remed. Status: CASE CLOSED/CLEANUP COMPL

State Spill Record Details

Agency ID Number:8708149

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: RT 96

Spill Details

Incident Date: 06/09/92

Substance: HAZARDOUS
Quantity: 5.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: HUMAN ERROR

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9202883

Owner Information

Resp. Name: US ARMY

Spill Details

Incident Date: 04/23/92

Substance: HAZARDOUS

Quantity: 1.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: HUMAN ERROR

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

LUST Record Details

Agency ID Number:8708149

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: RT 96

LUST Details.

Leak Date: 03/27/92

Substance: FUEL OIL #2

SENECA ARMY DEPOT PX STA (continued)

Quantity: 75.00 GALLONS

Media Affected: GROUNDWATER

Leak Source: NON-COMMERCIAL INDUSTRY

Remed. Status: CASE CLOSED/CLEANUP COMPL

117: 13: 1

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General Records Found Under Site Description

Facility Name

: US ARMY

Facility Address

: SENECA ARMY DEPOT

Facility City/Zip

: ROMULUS, NY 14541-5001

Facility County

: NOT REPORTED

VISTA #

: 2495496

UST Record Details

Agency ID Number:8-416118

Owner Information

Owner Name:

SENECA ARMY DEPOT AC

Owner Address:

ROUTE 96

Owner City:

ROMULUS

Owner State:

NY

Owner Zip: 1

14541

Tank Information

Number of Above Ground Tanks:

Number of Underground Tanks:

Tanks Details

Tank Id:

188A

Tank Contents:

FUEL OIL

91

175

Tank Size:

40600 GALLONS

Tank Status:

ACTIVE/IN SERVICE

Tank Material:

CARBON STEEL

Pipe Type:

STEEL/IRON

Leak Monitor:

NO MONITOR

Tank Id:

165A

Tank Contents:

FUEL OIL

Tank Size:

285 GALLONS

Tank Status:

ACTIVE/IN SERVICE

Tank Material:

CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 059U

Tank Contents: OTHER

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 026U

Tank Contents: OTHER

Tank Size: 2005 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 025U

Tank Contents: OTHER

Tank Size: 2005 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 023A

Tank Contents: OTHER

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: MONITOR PRESENT

Tank Id: 170A

Tank Contents: UNLEADED GAS

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 065A

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 016A

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 008A

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 073A

Tank Contents: DIESEL

Tank Size: 2000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: MONITOR PRESENT

Tank Id: 088A

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 090A

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 199A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 193A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 192A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 191A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 189A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 174A

Tank Contents: UNLEADED GAS

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 173A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 145A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 067A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 063A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 060A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 054A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 053U

Tank Contents: FUEL OIL

Tank Size: 2500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 048U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: MONITOR PRESENT

Tank Id: 038U

Tank Contents: OTHER

Tank Size: 10000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 036U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: MONITOR PRESENT

Tank Id: 032A

Tank Contents: FUEL OIL

Tank Size: 2000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 027A

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US ARMY (continued)

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 022A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 014A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 004A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 003A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

· Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 002U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 001U

Tank Contents: FUEL OIL

Tank Size: 2500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 224A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 223A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 222A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 221A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 220A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 219A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 218A /4.

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: \ 217A ...

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

· Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 216A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 209A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 211U

Tank Contents: UNLEADED GAS

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 210U

Tank Contents: UNLEADED GAS

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 208A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 207A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 206A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 205A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 204A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 194U

Tank Contents: FUEL OIL

Tank Size: 40000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 187A

Tank Contents: FUEL OIL

Tank Size: 60000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 186A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 185U

Tank Contents: OTHER

Tank Size: 30000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 007A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE.

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 215A

Tank Contents: DIESEL

Tank Size: 6000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: MONITOR PRESENT

Tank Id: 215U

Tank Contents: DIESEL

Tank Size: 6000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: FIBERGLASS REINFORCED PLA

Leak Monitor: NO MONITOR

Tank Id: 214A

Tank Contents: FUEL OIL

Tank Size: 250 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 213U

Tank Contents: DIESEL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: MONITOR PRESENT

Tank Id: 212U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: NO MONITOR

Tank Id: 211U

Tank Contents: UNLEADED GAS

Tank Size: 4000 GALLONS

Tank Status: UNKNOWN

Tank Material: CARBON STEEL

Leak Monitor: NO MONITOR

Tank Id: 210U

Tank Contents: UNLEADED GAS

Tank Size: 4000 GALLONS

Tank Status: UNKNOWN

Tank Material: CARBON STEEL

Leak Monitor: NO MONITOR

Tank Id: 209U

Tank Contents: LEADED GAS

Tank Size: 4000 GALLONS

Tank Status: UNKNOWN

Tank Material: CARBON STEEL

Leak Monitor: NO MONITOR

Tank Id: 135U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 134U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 133U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 132U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 131U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 130U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 129U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type; STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 128U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 127U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

. Leak Monitor: NO MONITOR

Tank Id: 126U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 125U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 124U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

TEMP OUT OF SERVICE Tank Status:

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 123U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> STEEL/IRON Pipe Type:

NO MONITOR Leak Monitor:

> Tank Id: 122U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe. Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 121U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> STEEL/IRON Pipe Type:

Leak Monitor: NO MONITOR

> 120U Tank Id:

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 119U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 118U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 117U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 116U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 115U ·

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Pipe Type: STEEL/IRON Leak Monitor: NO MONITOR

> Tank Id: 114U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 113U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

NO MONITOR Leak Monitor:

> Tank Id: 112U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> 111U Tank Id:

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 110U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 109U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 108U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 107U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 106U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 105U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 104U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 103U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 102U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 101U

Tank Contents: FUEL OIL*

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 100U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 099U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 098U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 097U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 096U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank'Id: 095U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 094U .

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 093U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 092U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 091U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 090U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: . 089U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 088U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 087U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 086U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 085A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: . NO MONITOR

Tank Id: 084A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 083A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 082A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 081U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 080U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 079U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Y 1 16 16 NO MONITOR

Leak Monitor: NO MONITOR

Tank Id: 078U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 077U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 076U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 075U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 074U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 073A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 072A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 071U

Tank Contents: FUEL OIL

> Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> 070U Tank Id:

Tank Contents: FUEL OIL

> Tank Size: 1500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 069 U

Tank Contents: FUEL OIL

> Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 068U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 067A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 066U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 065A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON .

Leak Monitor: NO MONITOR

Tank Id: 064A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 063A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER:

Leak Monitor: NO MONITOR

Tank Id: 062A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 061A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 060A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 059A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 058U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Talk Size: DOU GALLONS

Tank Status: TEMP OUT OF SERVICE

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 057U

Tank Contents: FUEL OIL

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 056U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

ank Material: CARBON STEEL
Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 055U

Tank Contents: FUEL OIL

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR '

Tank Id: 054U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 053U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 052U

Tank Contents: FUEL OIL

Tank Size: 1500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 051A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL
Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 050A

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL
Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 049U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 048U

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Tank Contents: FUEL OIL

> Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 047U

Tank Contents: FUEL OIL

> 1000 GALLONS Tank Size:

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 046U

Tank Contents: FUEL OIL

> Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> 045U Tank Id:

Tank Contents: FUEL OIL

> Tank Size: 1500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor:

NO MONITOR

Tank Id: 044U

Tank Contents: FUEL OIL

> Tank Size: 4000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON ::

Leak Monitor: NO MONITOR

Tank Id: 043U

Tank Contents: FUEL OIL

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 042U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 041U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 040U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 039U

Tank Contents: FUEL OIL

Tank Size: 2000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 038A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 037U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 036U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 035A

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Talk Oldvas: 110 111 DJ111 OD11110

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 034U

Tank Contents: FUEL OIL

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 033U

Tank Contents: FUEL OIL

Tank Size: 2000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

... Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 032A

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 031U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 030U

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 029U

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Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 028U

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 027U

Tank Contents: DIESEL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 026U

Tank Contents: FUEL OIL

Tank Size: 10000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 025U

Tank Contents: FUEL OIL

· Tank Size: 20000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 024A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 023A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 022A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 021A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

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Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 020U

· Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 019A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 018A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 017A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 016U

Tank Contents: FUEL OIL

Tank Size: 2000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 015U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 014U

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 013U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 012U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 011U

Tank Contents: FUEL OIL

Tank Size: 2000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 010U

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Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL .

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 009U

Tank Contents: FUEL OIL

Tank Size: 5000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: . NO MONITOR

Tank Id: 008A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 007U

Tank Contents: FUEL OIL

Tank Size: 3000 GALLONS

Tank Status: UNKNOWN

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 006U

Tank Contents: FUEL OIL

Tank Size: 3000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Tipe type. Dibbanion

Leak Monitor: NO MONITOR

Tank Id: 005U

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 004A

Tank Contents: KEROSENE

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 003A

Tank Contents: KEROSENE

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 002A

Tank Contents: KEROSENE

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

X0000 0101001

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 001A

Tank Contents: KEROSENE

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 203U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 202U

Tank Contents: DIESEL

Tank Size: 12000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: FIBERGLASS REINFORCED PLA

Leak Monitor: MONITOR PRESENT

Tank Id: 201U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP QUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 200U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 199U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 198U

Tank Contents: FUEL OIL

Tank Size: 30000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 197U

Tank Contents: FUEL OIL

Tank Size: 20000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 196U

Tank Contents: FUEL OIL

Tank Size: 30000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank ld: 195U

Tank Contents: FUEL OIL

Tank Size: 20000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 193A

Tank Contents: EMPTY

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 192A

Tank Contents: EMPTY

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: COPPER

Leak Monitor: NO MONITOR

Tank Id: 191A

Tank Contents: EMPTY

Tank Size: 500 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 190A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 189U

Tank Contents: FUEL OIL

Tank Size: 1000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Status. Oboobb & Removed

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 185U

Tank Contents: OTHER

> Tank Size: 17750 GALLONS

Tank Status: UNKNOWN

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 184U

Tank Contents: DIESEL

> Tank Size: 1500 GALLONS

Tank Status: UNKNOWN

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 183A

Tank Contents: DIESEL

> Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

STEEL/IRON Pipe Type:

Leak Monitor: NO MONITOR

> Tank Id: 182U

Tank Contents: DIESEL

> Tank Size: 10000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 181U

Tank Contents: DIESEL

Tank Size: 3000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 180A

Tank Contents: DIESEL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 179A

Tank Contents: DIESEL

Tank Size: 200 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 178U

Tank Contents: DIESEL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 177U

Tank Contents: DIESEL

Tank Size: 12000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

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1、分割经验。12、

Pipe Type: STEEL/IRON

Leak Monitor: MONITOR PRESENT

Tank Id: 176U

Tank Contents: DIESEL

Tank Size: 10000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 175A

Tank Contents: DIESEL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 174U

Tank Contents: UNLEADED GAS

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: 'NO MONITOR

Tank Id: 173U

Tank Contents: UNLEADED GAS

Tank Size: 2000 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 172U

Tank Contents: UNLEADED GAS

Tank Size: 15000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 171A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 170A

Tank Contents: UNLEADED GAS

Tank Size: 275 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 169A

Tank Contents: FUEL OIL

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 168U

Tank Contents: UNLEADED GAS

Tank Size: 20000 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: GALVANIZED STEEL

Leak Monitor: NO MONITOR

Tank Id: 167A

Tank Contents: UNLEADED GAS

Tank Size: 275 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 166U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

TEMP OUT OF SERVICE Tank Status:

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 165U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

STEEL/IRON Pipe Type:

Leak Monitor: NO MONITOR

> Tank Id: 164U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 163U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

TEMP OUT OF SERVICE Tank Status:

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR ..

> Tank Id: 162U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 161U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 160U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 159U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 158U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 157U

Tank Contents: FUEL OIL

Tank Size: 500 GALLONS

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Tank Status: TEMP OUT OF SERVICE

Tank Material: FIBERGLASS REINFORCED PLA

Pipe Type: STEEL/IRON Leak Monitor: NO MONITOR

> Tank Id: 156U'

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

NO MONITOR Leak Monitor:

> Tank Id: 155U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 154U

FUEL OIL Tank Contents:

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 153U

FUEL OIL Tank Contents:

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 152U

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Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 151U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 150U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

> Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 149U

Tank Contents: FUEL OIL

> Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

> Tank Id: 148U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

NO MONITOR Leak Monitor:

Tank Id: 147U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 146U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 145U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: CLOSED & REMOVED

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 144U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 143U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE CONTROL OF THE PROPERTY OF THE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON
Leak Monitor: NO MONITOR

Tank Id: 142U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 141U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: ACTIVE/IN SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 140U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 139U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 138U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: 137U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

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Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

... Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR

Tank Id: . 136U

Tank Contents: FUEL OIL

Tank Size: 550 GALLONS

Tank Status: TEMP OUT OF SERVICE

Tank Material: CARBON STEEL

Pipe Type: STEEL/IRON

Leak Monitor: NO MONITOR



APPENDIX C UST AND AST LIST

Table C-1
REGISTERED PETROLEUM STORAGE TANKS
SENECA ARMY DEPOT ACTIVITY, NEW YORK

			· . ·			IN OR OUTSIDE,		
				! .		TANK TYPE,		
	STATE	EPA	A. A.		UNDER OR	HOUSING, YEAR		
BUILDING NUMBER	REGISTRATION NUMBER	REGISTRATION NUMBER	i e	DROBLICT	ABOVE GROUND	INSTALLED,	EMERGENCY	
103	1	N/A	2,500	PRODUCT F.O.		SWMU NUMBER	GENERATOR	SERVICE
	2	· N/A			ung	1-		TOO
752			275	F.O.	tabg	1992		TOS
2491	3	N/A	275	F.O.	abg	in H 1988		
2076	4	N/A	275	F.O.	abg	out 1988		
6	5	N/A.yer	500	F.O.	ung	st 1984		
101	6	N/A	3,000	F.O.	ung	st 1942		
106G	7	N/A	550	F.O.	abg	out 1990	GEN	
104	8	N/A	285	F.O.	abg	out stp 1993		
106	9	N/A	5,000	F.O.	ung	st 1977		
106A	10	N/A	500	F.O.	ung	st 1977		
113	11	N/A	2,000	F.O,	ung	fg 1985	·	
114	12	N/A	1,000	F.O.	ung	st 1943		
114	13	N/A	1,000	F.O.	ung	st 1943		
2492	14	N/A	275	F.O.	abg	in H 1988		
126	15	N/A	550	F.O.	ung	st 1980		
138	16	N/A	500	F.O	abg	out stp 1993		
S142	17	N/A	275	F.O.	abg	in 1942		·
S142	18	N/A	275	F.O.	abg	in 1942		
S142	19	NA	275	F.O.	abg	in 1994		
308	20	N/A	1,000	F.O.	ung	st 1942		
309	21	N/A	275	F.O.	abg	in 1990		
2493	22	N/A ·	275	F.O.	abg	in H 1988		
118	23	N/A	500	Used oil	abg	out stp 1993		
334	24	N/A	275	F.O.	abg	out stp 1993		
117	25	117	2,005	Used oil	ung	fg 1982		
2494	27	N/A	275	F.O.	abg	in H 1988		
353	28	N/A	500	F.O.	ung	st 1954		
360S	29	N/A	500	F.O.	ung	st 1969		
360\$	30	N/A	500	F.O.	ung	st 1969		
360N	31	N/A	1,000	F.O.	ung	fg 1980		
367	32	N/A	2,000	F,O,	abg	out 1990		
606	33	N/A	2,000	F.O.	ung	st 1958		
609	34	N/A	3,000	F.O.	ung	st 1954		
609	35	N/A	1,000	F.O.	abg	in 1953		
710	36	N/A	1,000	F.O.	ung	fgd 1991		TOS
714	37	N/A	1,000	F.O.		st 1957		TOS
718	38	718	10,000	used oil	ung	fgd 1989		TOS
729	39	N/A			ung	fg 1986	<u> </u>	TOS
	40	N/A	2,000	F.O.	ung			
733			1,000	F.O.	ung	st 1971		TOS
742	41	N/A	550	F.O.	ung	st 1984		TOS
740		N/A	1,000	F.O.	ung	st 1960		
746	43	N/A_	. 3,000	F.O.	ung	st 1982		TOS
747	44	N/A	4,000	F.O.	ung	fg 1982		TOS
800	45	N/A	1,500	F.O.	บทฐ	st 1981		TOS
802	46	N/A	1,000	F.O.	ung	st 1956		TOS
805	47	N/A	1,000	F.O.		st 1956		TOS
806	48	N/A	1,000	F.O.	ung	fgd 1991		TOS

Table C-1 (Continued)

				:		IN OR OUTSIDE, TANK TYPE,		:. :.
İ	STATE	EPA		5.4	UNDER OR	HOUSING, YEAR	4	
	ł .	REGISTRATION	i :		ABOVE		EMERGENCY	
NUMBER	NUMBER	NUMBER	(GALLONS)		GROUND	SWMU NUMBER	GENERATOR	
810	50	N/A	550	F.O.	abg	out 1967		TOS
810	51	N/A	550	F.O.	abg	out 1967		TOS
812	52	N/A	1,500	F.O.	ung	st 1956		TOS
813	53	N/A	2,500	F.O.	ung	fgd 1990		
2495.	*54	N/A	275	F.O.	abg	in H 1988		
816	55	N/A	3,000	F.O.	ung	fg 1983		
817	56	N/A	1,000	F.O.	ung	st 1959		TOS
819	57	N/A	3,000	F.O.	ung	st 1957		
824	58	N/A	550	F.O.	ung	st 1961		TOS
732	59	732	550	Used oil	ung	fg 1982		TOS
2496	60	N/A	275	F.O.	abg	in H 1988		
2086	61	,N/A	285	F.O.	abg	out stp 1995		
2497	63	N/A	275	F.O.	abg	in H 1988		
2104	64	N/A	285	F.O.	abg	out stp 1995		
2113	65	N/A	500	F.O.	abg	out stp 1993		
2498	67	N/A	275	F.O.	abg	in H 1988		
2301	68	N/A	550	F.O.	ung	st 1954	2	TOS
2305	69	N/A	1,000	F.O.	ung	st 1957		
2306	70	· N/A	1,500	F.O.	ung	st 1957		TOS
2485 -	71	N/A	1,000	F.O.	ung	st 1981		
2410	72	N/A	2-275	F.O.	abg	in 1942		
2411	73	N/A	2,000	F.O.gen	abg	out 1992	GEN	
200A/B	74	N/A	550	F.O.	ung	st H 1961 - · · ·		
201A/B	75	N/A	550	F.O.	ung	st H 1961		
202	76	N/A	550	F.O.	ung	st H 1961		
203	77.	N/A	550	F.O.	ung	st H 1961		
204	78	N/A	550	F.O.	ung	st H 1961		
205	79	· N/A	650	F.O.	ung	st H 1961		
206	80	· · · N/A	550	F.O.	ung	st H 1961		1000
207	81	N/A	550	F.O	ung -	st H 1961		
208E	82 -	N/A	275	F.O.	abg	in H 1942	1	TOS
208W	83	N/A	. 275	F.O.	abg	in H 1942		TOS
209E	84	N/A	- 275	F.O.	abg	in H 1942		TOS
209W	85	N/A	275	F.O.	abg	in H 1942	,	TOS
210A/B	86	N/A	550	F.O.	ung	st H 1961		
211A/B	87	N/A	550	F.O.		st H 1961		TOS
212A/B	88	N/A	500	F.O.		stp H 1992		TOS
213A/B	89	N/A	550	F.O.		st H 1961		TOS
214	90	N/A	500	F.O.		stp H 1992	1	TOS
215	91	N/A	550	F.O.		st H 1961		TOS
216	92	N/A	550	FO.		st H 1961		TOS
217	93	N/A	550	F.O.		st H 1961		TOS
218A/B	94	N/A	550	F.O.		st H 1961		
219A/B	95	N/A	550	F.O.		st H 1961		
221A/B	96	N/A	550	F.O.		st H 1961		
222A/B	97	N/A	550	F.O.		st H 1961		TOS
223A/B	98	N/A	- 550	F.O.		st H 1961		TOS

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Table C-1 (Continued)

						IN OR OUTSIDE, TANK TYPE,		
:	STATE	EPA			UNDER OR	HOUSING, YEAR		
		REGISTRATION		DROBUGT	ABOVE	INSTALLED, SWMU NUMBER	EMERGENCY	
NUMBER	NUMBER	NUMBER	(GALLONS)	PRODUCT	GROUND		GENERATOR	
224A/B	99	N/A	550	F.O.	ung	st H 1979		TOS
224C/D	100	N/A	550	F.O.	ung	st H 1961		TOS
225A/B	101		550	F.O.	ung	st H 1961		
225C/D	102	N/A	550	F.O.	ung	fg H 1983		TOS
226A/B	103	N/A	550	F.O.	ung	st H 1961		TOS
226C/D	104	N/A	550	F.O.	ung	st H 1983		TOS
227A/B	105	N/A	550	F.O.	ung	st H 1961		
227C/D	106	N/A	550	F.O.	ung	st H 1961		TOS
228A/B	107	N/A	550	F.O.	ung	st H 1961		TOS
228C/D	108	N/A	550	F.O.	ung	fg H 1983		
229A/B .	109	N/A	550	F.O.	ung	st H 1961		TOS
229C/D	110	N/A	550	F.O.	ung	st H 1961		TOS .
230A/B	111	N/A	550	F.O.	· ung	st H 1961		TOS
230C/D	112	N/A	550	F.O.	ung	st H 1961		TOS
231A/B	113	N/A	550	F.O.	ung	st H 1961		TOS
231C/D	114	N/A	550	F.O.	ung	st H 1961		TOS
232A/B	115	N/A	550	F.O.	ung	st H 1961		TOS
232C/D	116	N/A	550	F.O.	ung	st H 1961	·	TOS
233A/B	117	N/A	550	F.O.	ung	st H 1961		TOS
233C/D	118	N/A	550	F.O.	ung	st H 1961		TOS
234A/B	119	N/A	550	F.O.	ung	st H 1961		TOS
234C/D	120	N/A	550	F.O.	นกฎ	st H 1961		TOS
235A/B	121	N/A	550	F.O.	ung	st H 1961		TOS
235C/D	122	N/A	550	F.O.	ung	st H 1961		TOS
236A/B	123	N/A	550	F.O.	ung -	st H 1961		TOS
236C/D	124	N/A	550	F.O.	ung ,	st H 1961		TOS
238A/B	125	N/A	1,000	F.O.	ung .	st H 1961		TOS
238C/D	126	N/A	550	F.O.	ung	st H 1961		TOS
239A/B	127	N/A	550	F.O.	ung	st H 1961		TOS
239C/D	128	N/A	550	F.O.	ung	st H 1961		TOS
240A/B	129	N/A	550	F.O.	ung	st H 1961		TOS
240C/D	130	N/A	550	F.O.	ung	st H 1961	·	TOS
241A/B	131	. · · · N/A	550	F.O.	ung	st H 1961		TOS
241C/D	132	·· N/A	550	F.O.	ung	st H 1961	1 4	TOS
242A/B	133	N/A	550	F.O.		st H 1961		TOS
242C/D	134	N/A	550	F.O.	ung	st H 1961		TOS
243A/B	135	N/A	1,000	F.O.	ung	st H 1961		TOS
243C/D	136	N/A	550	F.O.	ung	st H 1961		TOS
244A/B	137	N/A	550	F.O.	ung	st H 1961		TOS
244C/D	138	N/A	550	F.O.	ung	st H 1961	1 1 2 2 2	TOS
245A/B	139	N/A	550	F.O.	ung	st H 1961		TOS
245C/D	140	N/A	550	F.O.	ung	st H 1961	1 m	TOS
2401	141	N/A	550	F.O.	· ung	st H 1942		
2403	142	N/A	550	F.O.	ung	st H 1942		1 1
2404	143	N/A .	550	F.O.	ung	st H 1942	*	
2406	144	N/A	550	F.O.	บกฐ	st H 1942		
2408	145	N/A	2-275	F.O.	abg	in H 1991		

Table C-1 (Continued)

BUILDING NUMBER	STATE REGISTRATION NUMBER	EPA REGISTRATION NUMBER	CAPACITY (GALLONS)	PRODUCT	UNDER OR ABOVE GROUND	IN OR OUTSIDE, TANK TYPE, HOUSING, YEAR INSTALLED, SWMU NUMBER	EMERGENCY	
2412	146	N/A	550	F.O.	ung	st H 1942		TOS
2414	147	N/A	550	F.O.	ung	st H 1942		TOS
2415	148	N/A	550	F.O.	ung	st H 1942		TOS
2418	149	N/A	550	F.O.	ung	st H 1942		TOS
2419	150	N/A	550	F.O.	ung	st H 1942		TOS
2421	151	N/A	550	F.O.	ung	st H 1942		TOS
2423	152	N/A	550	F.O.	ung	st H 1942		TOS
2425	153	N/A	550	F.O.	ung	st H 1942		TOS
2426	** 154	N/A	550	F.O.	ung	st H 1942		TOS
2427	155	N/A	550	F.O.	ung	st H 1942		TOS
2429	156	N/A	550	F.O.	ung	st H 1942		TOS
2432	** 157	N/A	500	F.O.	ung	fg H 1986		TOS
2437	158	N/A	550	F.O.	ung	st H 1942		TOS
2438	159	N/A	550	F.O.	ung	st H 1942		TOS
2441	160	N/A	550	F.O.	ung	st H 1942		TOS
2443	161	N/A	550	F.O.	ung	st H 1942		TOS
2446	162	N/A	550	F.O.	ung	st H 1942		TOS
2448	163	N/A	550	F.O.	ung	st H 1942		TOS
2450	164	N/A	. 550	F.O.	ung	st H 1942		TOS
2452	165	N/A	285	F.O.	abg	stp H 1992		TOS
2453	166	N/A	550	F.O.		st H 1942		TOS
102	167	N/A	285	Gasoline	abg	out stp 1995		
120	168	120A	20,000	Gasoline	ung .	fg 1985		
748	169	N/A	275	F.O.	abg	out 1983		TOS
334	. 170	N/A	500	Gasoline	abg	out stp 1993		
749	171	N/A	275	F.O.	abg	out 1986		TOS
719	172	719	15,000	Gasoline	ung	fg 1985		
2499	173	N/A	275	F.O.		in H 1988		
2456	174	N/A	550	Gasoline	abg	out 1991		
4	175	N/A	275	F.O.	abg	in 1946	GEN	
120	176	120B	10,000	Diesel	ung	fg 1985		٠.
127	177	127 :	12,000	Diesel		fgd 1985		
137	178	N/A	550	F.O.	ung	st 1983	GEN	
T137	179.	- N/A	200	F.O.	abg	in 1961	GEN	
715	180	N/A	275	F.O.		in 1956	GEN	
819	182	819	10,000	F.O.		st 1981	GEN	
2304	183	N/A	285	F.O.		out stp 1995	GEN	
2411	184	N/A		CLOSED IN PL				
Airfield	185	AIRF	30,000	JP-4		fgd 1990		
2500	186	N/A	275	F.O.		in H 1988		1
129	187	N/A	60,000	F.O.		out 1982		TOS
717	188	N/A	40,600	F.O.		out 1956		TOS
2501	189	N/A	275	F.O.		in H 1988		
750	190	N/A	275	F.O.	-	out 1985		TOS
2502	191	N/A	275	F.O.		in H 1988	-	
2504	192	N/A	275	F.O.		in H 1988		
2505	193	N/A	275	F.O.		in H 1988	-	

Table C-1 (Continued)

	1.				1.7.2.	A CONTRACTOR	Garage Const	7: 4
•						IN OR OUTSIDE,		
	OTATE	EDA .			UNDER OR	TANK TYPE, HOUSING, YEAR	70-7 T. S.	
DI III DING	STATE	EPA REGISTRATION	CAPACITY		ABOVE		EMERGENCY	OUTOF
NUMBER	NUMBER	NUMBER	(GALLONS)	PRODUCT	GROUND	SWMU NUMBER		
718	194	N/A	40,000	#6 F.O.	ung	st 1958		
718	195	N/A	20,000	#6F.O.	ung	st 1978		
319	196	N/A	30.000	#6F.O.	ung	st 1951		
319	197	N/A	20,000	#6 F.O.	ung	st 1951		
121	198	N/A	30,000	#6F.O.	ung	st 1943		
2507	199	N/A	275	F.O.	abg	in H 1988		
237A/B	. 200	N/A	550	F.O.		st H 1961		TOS
237C/D	201	N/A	550	F.O.	ung	st H 1961		TOS
721	201	721	12,000	Diesel	ung	fgd 1986		TOS
2073	202	N/A		F.O.		fgd 1986		103
2508	204	N/A	1,000 275	F.O.	ung	in H 1988		
		N/A	275	F.O.		in H 1988		
2509	205	N/A N/A			abg	in H 1988		
2510	206		275	F.O.	abg	in H 1988		
2511	207	N/A	275		abg	in H 1988		
2512	208	N/A	275	F.O.	abg	in H 1988		
2513	209	N/A	275	F.O.	abg			TOS
742	210	742A	3,000	Gasoline	ung	fgd 1990		TOS
742	211	742B	3,000	Gasoline	ung	fgd 1990		103
701	212	N/A	550	F.O.	ung	fg 1987	OFN	
729	213	N/A	550	F.O,	ung	fgd 1986	GEN	TOS
751	214	N/A	250	F.O.	abg .	out 1987	GEN	108
LORAN-C	215	N/A	6,000	F.O.	abg	out 1991	GEN	
2514	216	N/A	275	F.O.	abg	In H 1988	<u> </u>	
2515	217	N/A	275	F.O.	abg	in H 1988		
· 2516	218	N/A	275	F.O.	abg	in H 1988		
2517	219	N/A	275	F.O.	abg	in H 1988		
2518	220	N/A	275	F.O.	abġ	in H 1988		
2519	221	N/A	275	F.O.	abg	in H 1988		
2520	222	N/A	275	F.O.	abg	in H 1988		
2521	223	N/A	275	· F,O.	abg	in H 1988		
2523	224	N/A	275	F.O.	abg	in H 1988		

LOCATION CODES

abg in - aboveground inside building

abg out - aboveground outside

tabg - temporary aboveground outside

ung - underground

H - Housing

TANK TYPE CODES

st - steel

stp - steel, with prefabricated steel dike

fg - fiberglass

fgd - fibergiass double wall

all aboveground tanks are single wall steel, except LORAN-C and

Building 2411 Reg. No. 073 tanks are dual wall

PRODUCT CODES

F.O. - Fuel oiVDF-1

#6 F.O. - #6 Fuel Oil

OTHER CODES

VIOL . tank has been cited and in violation of law

GEN - emergency generator

TOS - temporary out of service, tank has been emptied and/or

building has been mothballed

Total tanks registered with New York State

Total tanks registered with EPA

218

Number of tanks registered with both

12 218

12

Total number of registered petroleum tanks

APPENDIX D SAMPLE INTERVIEW FORM

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the transfer of the second sections.

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FORM 3 - INTERVIEWS

Installation Code:	; Area:	; Parcel:;;;;;
Facility No.:	; Facility Name:	<u> </u>
Map ID:	; Coordinates:; Address;	:
Team Member Na	me:	; Date:
Interviewee Infor	mation:	
Name:	; Organization:	; Title:;
Role/Responsibilit	y;	; Title:; Phone:;
Period for which th	he person would have specific and detaile	d knowledge of the area or facility in question:
Area or Facility Pe 1) 2)	facilities for which the person would haveriod:	
Who can I talk to r	regarding previous uses or processes of the	is area/facility?
Period:	. Contact:	
Period:	Contact:	
	Contact:	
	Contact:	
	TABLE I-1: FACILITIES WITH CO	MMON USE OR PURPOSE

FACILITY NO.	FACILITY NAME	DATE CONSTRUCTED	DATE EXPANDED
		·	·
·			
	·		
	•		

FORM 3 - INTERVIEWS (continued)

Installation Code:	; Area:	; Parcel:	; Facility No:	_
Team Member Name:		; Date:	•	
Interviewee:				

USE HISTORY

Use the following questions to complete Table I-2. Include historical perspective on disposal practices and locations, and state amounts of stored chemicals and wastes in the comments column.

Was or is the area/facility in question used as a gasoline station, motor or machine fabrication or repair facility, dry cleaners, photo developing laboratory, plating shop, paint shop, electronics or electro-optical manufacturing or repair facility, medical or dental facility, training area, or as a waste treatment, disposal (such as junkyard or landfill), processing, or recycling facility? Y/N

Was or is the area in question used as a firing and/or bombing range? Y/N

Describe the use history of this area or facility, including the processes for which the area or facility was used.

Describe the process chemicals and petroleum products which have been or are used in this facility or area?

Describe the process chemicals and petroleum products which have been or are stored in this facility or area, and where these materials are stored.

Describe any pesticides, paints, or other chemical containers, or damaged or discarded automotive or industrial batteries which have been or are located, stored, or used in this facility or area.

Describe any other drums, sacks, or cartons containing chemicals located in this facility or area.

Describe the wastes which have been or are generated in this facility or area, and the rates at which these wastes were and are generated.

Describe chemical or petroleum products wastes which have been or are stored in this facility or area, the amounts of stored wastes, and where these wastes are stored.

Does the facility generate used oil? Y/N

Were or are radioactive elements (such as radium, uranium) used in a manufacturing process or contained in machinery/devices which were repaired? Y/N If yes, what are the radioactive elements? Where were/are raw materials stored? Where were/are wastes disposed? Can you provide copies of permits? Y/N

Is or was mercury used or contained in any machinery parts, or electrical, pressure, or vacuum instruments?

Installation Code:;	Area:	; Parcel:	;	Facility No:	_
Team Member Name:		; Date:		-	
Interviewee:					

TABLE I-2: AREA OR FACILITY USE HISTORY

PERIOD USE/PROCESS	CHEMICALS / PETROLEUM PRODUCTS USED OR GENERATED	TYPE ¹ CLASS ²	GEN. RATE STORAGE ³	DISPOSAL
		"		
•				
•		•		
	1			

^{1 -} P = process, W = waste, C = cleaning, O = other such as pesticides and paint stored for incidental use.

^{2 -} PP = petroleum product, HS = hazardous substance.

^{3 -} Identify specific location in area or facility. For USTs and ASTs use Table I-3.

Installation Code:; Area:	•	; Parcel:	; Facility No:
Team Member Name:		; Date:	
Interviewee:			

UST AND AST INVENTORY

Have there been or are there any above ground or under ground storage tanks containing hazardous substances or petroleum products located on the installation/area/facility? Y/N If yes, can you provide a complete list of all tanks, a tank location map, and a copy of all permit(s)? Y/N If yes, Document ID: ______; otherwise complete:

TABLE I-3; UST AND AST INVENTORY

UST or AST		AR LLED	CAF CO	ACI NSTI	TY/ (G	SAL) ION	CONTENTS	CLASS ¹	STATUS	SITE NO.	FUTURE ACTIONS	COMMENTS 2
		.:										
•**;			1	-	: !							
1			1	• * •		٠.						
	. :		1						1			
ι			:		i							
(*	. 1			,d	,							
				-1				•				
	i .			•	,		••	· .				
									4.			

- 1 PP = petroleum product, HS = hazardous substance.
- 2 Include compliance monitoring, if present, and results.

tion and remedial action conducted? Y/N If yes, enter required information into Table I-4

When was it installed?

; Abandoned? Y/N; When? ; Is or was an investiga-

Installation Code:	; Area:	; P	arcel:	; Facility Number:
Team Member Name:			Date:	
Interviewee:				
COMPLIANCE ISSUES				•
Has an asbestos survey bee survey? Y/N If yes, Doc.				nn you provide a copy of the ? Y/N If yes, where?
Was the asbestos removed	Y/N; If yes, when?			
Has a lead-based paint survithe survey? Y/N If yes, D Was the paint removed? Y	oc. ID:; D	Did the survey	nen? identify any lea	; Can you provide a copy of ad-based paint onsite? Y/N;
Has a radon survey been per survey? Y/N If yes, Doc. mitigation actions been ins	ID:; Was	radon detecte	d above regula	
Has the potable water supp If yes, Doc. ID;				
Process Water Supply: (Ins	tallation, City, County	y, Facility well	, River, Other:);
provide a list identifying the Document ID:	e status of each and a ; ; If no, Map ID:	map locating a	all identified lo Coordinates:	;
Are any of these investigati	on or cleanup sites? Y	Y/N If yes, en	er required in	ormation into Table 1-4
Are there any transformers Y/N If yes, Document ID: Pole No; Coo	in the area or facility?; If no, l	Y/N If yes, list: Map ID:	Can you provid	de a list and a map of them?
Pole No. ; Coo	rdinates:			
Pole No. ; Coo	rdinates:	;		
Have these transformers be	en inspected and tested	d? Y/N If yes	Can you prov	ide documentation? Y/N If
			cleanup sites?	Y/N If yes, enter required
information into Table 1-4.	n in 196 s 45 n 2 m² v v			
Where is transformer retrof site for PCB wastes? Y/N				s the installation have a storage
	e list of all sources and			s, can you provide a copy of al and present sources? Y/N

INVESTIGATION AND CLEANUP ACTIVITIES

Describe any past or present investigation or cleanup sites in this area or associated with this facility.

TABLE I-4: INVESTIGATION AND CLEANUP SITES

SITE	NAME	CONTAMINANTS	STATUS/ ACTIVITY	DOCID MAP MAPID COORD.
			and the second second	
				222
			so je je ma taji	
				A AND A DECEMBER OF THE PROPERTY OF THE PROPER
		•		
		CAMPLE IN THE STATE OF THE STAT		
			\$ 10 mm + 10 mm.	
			e de de la companya d	
			Valley and Springer	

FORM 3 - INTERVIEWS (continued)

Page 8 of 8

, , , , , , , , , , , , , , , , , , , ,	; Parcel:	; Facility No:
Installation Code:; Area: Team Member Name:	; Date:	
Interviewee:		
MISCELLANEOUS		
Are there any pipelines located in this area/facili	ty? Y/N If yes, sketch in a ize:; Construction	pproximate location(s). Map ID:
; Coordinates: ; S Contents: ; Pressure tested? Y/?	N Date of last test:	; Has it leaked? Y/N If yes,
Is or was an investigation and remedial action co	nducted? Y/N If yes, enter	required information into Table
<i>I-4.</i> .		
What was demolished? Where was it located? Map ID:	; Coordinates:	
Where was the demolition wastes disposed? M	Jan ID: C	oordinates:
Use Table I-2 to describe the demolished facility	ty'e use history	ooraniatos.
		•
Were there associated USTs or ASTs? Y/N/U		mation into Table I-3.
Were there associated USTs or ASTs? Y/N/U Is or was an investigation and remedial action of Table 1-4.	If yes, enter required infor	
Is or was an investigation and remedial action of	If yes, enter required infor- conducted? Y/N If yes, ent on, administrative proceedition of laws or possible liab	er required information into ngs, or notices from any ility relating to hazardous

APPENDIX E

SAMPLE VISUAL INSPECTION FORM

till og skilleder og som en fler Dettalleger og blever og gjorde

Team Member Name:	; Date:			
Installation Name:	; Installation Code;			
Area:	; Installation Code: ; Parcel:; Facility No; Map ID:; Coordinates:			
Facility Name:	; Map ID; ; Coordinates;			
Address:				
Area/Facility Use: (Undeveloped, Agr	iculture, Housing, Recreation, Commercial, Utilities, Light Industrial,			
Heavy Industrial, Other:	; Acreage:;			
Associated IRP Site, SWMU, or OU?	Y/N/U; If yes, Site ID(s):			
Area/Facility contact name/title:	; Phone:			
Escort Information:	Organization			
Pole/Perposibility	; Organization: ; Title:			
Period for which the person would have	; Organization: ; Title: ; Phone: ; Phone: ; ye specific and detailed knowledge of the area or facility in question:			
reflor for which the person would have	re specific and detained knowledge of the area of facility in question,			
Inspection Information:				
	ty: (Air, Auto, Walk, Onsite, Remote:)			
	ain:			
	,			
Setting:				
Adjoining land use (show on map):				
	be use:			
Roads without outlets? Y/N; Describ	be use:			
Wetlands, Streams, Springs/seeps?: Y/	/N (delineate on map as W, S, SS, respectively);			
Surface Cover: (Vegetation, Manmade	;; Type:);			
i ser				
Construction:				
Structure: (Metal frame, Wood frame,				
Siding (Metal, Wood, Concrete, PVC,				
Flooring Material: (Wood, Concrete, C				
Roofing Material: (Composition, Sheet	t Metal, Tar, Tiles, Slate, Cedar Shake, Rubberized, Fiberglass)			
Insulation Material: (Fiberglass, Foan	n, Unknown)			
Vicantila - Vicinal				
Facility Utilities:	0			
	System: (Oil/forced air, Gas/forced air, Electrical, Steam, Hot water)			
HVAC Power: (Gas, Oil, Coal, Electric				
Boiler Room? Y/N; Exhaust System?	Y/N			
Boller Room? 1/N; Exhaust System? 1/N				

Use History:

Describe in Table I-2 additional information regarding the use history of this area or facility discovered during the visual inspection that was not already described during interviews.

Installation Co	ode:; Area:; Parcel:; Facility No:
Team Membe	ode:; Area:; Parcel:; Facility No: r Name:; Date:
FEATURES	(Circle each form used. Use the appropriate form listed below.)
FORM VI:	STORAGE TANKS: ASTs, USTs, Oil/Water Separators
FORM V2:	HAZARDOUS SUBSTANCES AND/OR PETROLEUM PRODUCTS USED OR
	GENERATED, AND THEIR STORAGE AND DISPOSAL (except for USTs and ASTs).
FORM V3:	POTENTIAL RELEASES: As indicated by stains, pools, stressed vegetation, odors, burned
	areas, illicit dumping and other uncontrolled waste.
FORM V4:	WASTE WATER: Occurrence and disposition, including storm water, cooling water, waste
	water from processes, facility floors, oil-water separators, sumps, dry wells, etc.
FORM V5:	PIPELINES
FORM V6:	TRANSFORMERS: inventory, including capacitors.
FORM V7:	PONDS: Including infiltration ponds, waste water treatment reservoirs, etc.
FORM V8:	AIR EMISSIONS: Including incinerators, boilers, process, or laboratory exhaust.
FORM V9:	POTENTIAL ASBESTOS CONTAINING MATERIALS
FORM V10:	WELLS: Including drinking water, process water, agricultural, monitoring, injection, oil, and
	gas.
PHOTOGRA	PHS
Frame Numbe	r Compass View Subject
···	
	•
	
	•

APPENDIX F

ENVIRONMENTAL TITLE HISTORY REPORT

APPENDIX F

CHAIN OF TITLE REPORT BRAC PROPERTY SENECA ARMY DEPOT ACTIVITY, NEW YORK

REPORT PARGEL	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE	COMMENTS
1	10/20/1941	3,25	The Trustees of First Baptist Cemetery Association and Society of Romulus, NY	66, 72	
2	8/4/1941	310.82	Chester Phillips, Frank S. Williams and Carrie Isabelle Williams, his wife	57, 66, 80	,
3	8/4/1941	. 199	First National Bank of Waterloo, Chester Phillips, Marline Phillips and John Sutton	57, 62, 80, 87	
4	3/6/1942	221.75	Violet Yates, et al.	61, 79, 81, 87, 88	
5	1/19/1942	242,56	Clement B. Cole, et al.	57, 66, 75, 76, 87	
6	12/17/1941	2.79	Trustees of School District No. 19, Varick, NY	57, 74, 75, 87, 88	
7	4/21/1943	0.786	Lehigh Valley Railroad		
. 8	8/4/1941	67, 0.5, 89, 122.32, 243.82	Chester Phillips, et al.	57, 66, 80	
9	11/22/1941	52, 32.68, 0.90	Albert A. Van Riper and Catherine G. Van Riper; Frank Dullmeyer and Frances, his wife	57, 58	
10	12/1/1941	67.31	John B. Lisk and Edith S. Lisk, his wife	62	
11	12/1/1941	85	George G. Ehle, widower	61	
12	12/1/1941	68.14	Libby Laskowske, widow	51	

REPORT	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE!	COMMENTS
13	11/29/1941	. ,5	Myrtle C. Moses, and Charles F. Moses, her- husband		COMMENTS
14	11/29/1941	66.59, 29.67	Jay H. Van Riper and Pearl M. Van Riper, his wife	55, 61	
15	11/29/1941	40	Albert Collins	62	
16	10/30/1941	67	Wilson Grant Hunt Buchholz and Esther G. Buchholz, his wife	57	
17	11/21/1941	50 ·	Adelbert Abner Thompson and Martha B. Thompson, his wife	56	
18	11/21/1941	170	Anna May McGrane, S. Agnes McGrane, Gordon McGrane, unmarried and Charles McGrane, married	51, 52	
19	11/21/1941		Anna M. McGrane and Gordon McGrane, Executors of the last Will and Testament of Margaret McGrane	52	
20	11/15/1941	150	John E. McGrane Executor of John McGrane, deceased	56	
21	11/15/1941	100	Clara E. Cook, widow and Anna E. McKnight, unmarried	57	. 44.
. 22	11/14/1941	131.54	Emma C. Hogan and William E. Hogan, her husband	52	Mir.
23	11/22/1941	67	Chester W. Phillips and Ina Phillips, his wife	·57 : .	1.C

				OWNERSHIP	
REPORT	DATE			MAP	
PARCEL	TRANSFERRED	ACREAGE	OWNER	REFERENCE!	COMMENTS
24	11/28/1941	1,	Marick Wesleyan	61, 62	
		1	Methodist Church,		
			et al.		
25	11/22/1941	5,	Chester W. Phillips	62	
1 1		12,	and Ina M.		
		33	Phillips, his wife,		
1 1			and Merline C.		
			Phillips and		
			Virginia M.		
26	12/8/1941	109.93	Phillips, his wife Paul and Sadie E.	52	
20	12/0/1941	109.93	Olsowske, husband		
			and wife		
27	12/8/1941	4.5	Scott Briggs and	61	
2'	12/0/1941	4.5	Margaret L.	01	
			Briggs, his wife		
28	12/8/1941	35	Martha B. Crane,	62	
1 20	12/0/1541	. 33	married		
29	12/8/1941	50	Lillian I. Everett,	61	
	12,0,15 11		married		,
30	12/8/1941	75,	Walter B. Keefer	58, 63	
		150	and Georgia	1	
·			Keefer, his wife		
31	12/9/1941	50	Henry J. Hoster,	57	
	`	•	executor of the	:	
	•		Albert J. Kreutter		
			Will		
32	12/9/1941	3.20	Barton L. Van	62	ı
			Riper and Emily L.		;
			Van Riper, his		
			wife		
33	12/9/1941	50 :	John T, White and	61	
1			Elizabeth Loretta	:	
24	10/0/10/1	65 222	White, his wife	60	
34	12/9/1941	65.222, 43.04	Burt B. Van Riper and Elia S. Van	58	'
	:	43,04	Riper, his wife	:	
35	12/9/1941	20	Martha B.	56	
"	12/9/1941		Thompson		
36	12/15/1941	57.81	Albert Covert and	57	
"	12/13/1341	37,01,	Bertha M. Covert,	,	
.	•	his wife		i i	
37	12/15/1941	97.27	Leah E. Thorpe	61	As a second
"	IMILOTITE	21141 . :	and Harry E.		
			Thorpe, her		
1			husband		A SERVICE OF THE SERV

9.50

REPORT	DATE			OWNERSHIP MAP	
PARGEL	TRANSFERRED	ACREAGE	IN THAT WAS TO SEE THE TANK AND	REFERENCE!	COMMENTS
38	12/15/1941	2	William O'Marra and Frances Catherine O'Marra	63	
39	12/15/1941	17.108, 31.759	Martin O'Marra and Mary E. O'Marra, his wife	58	
40	12/15/1941	21	Frank Komonek and Eva Komonek, his wife	61	
41	12/15/1941	51	Rosetta Campbell and John Campbell, her husband	61	
42	12/15/1941	101	Fred C. Thorp and Bertha H. Thorp, his wife	61	
43	12/16/1941	65.95	Charles H. Jacobus and Laura M. Jacobus, his wife	62	
44	12/9/1941	57.71	John B. Lisk, Edith S. Lisk, his wife and Charles W. Lisk, widower	62	
45	12/9/1941	89.17	Edith S. Lisk and John B. Lisk, her husband	62	
46	12/16/1941	25	Harry Pettit and Elizabeth Pettit	62	-
47	12/23/1941	112.25	Emest N. Van Riper and Irene B. Van Riper, his wlfe	63	
48	12/23/1941	2 .	J. Oren Somerville	63	
\$ ""		:	and Mary G. Somerville, his wife	. ,8 ,	
49	12/23/1941	. 76	Emma S. Bolles, widow	63	:
50	11/29/1941	51.55	Charles J. Baldridge and Mary K. Baldridge, his wife	61, 66	
51	1/2/1942	12.142, 6.787	Thomas W. Osborne, unmarried	58 · · · · · · · · · · · · · · · · · · ·	

DEDGET	DATE			OWNERSHIP MAP	
PARCEL	DATE TRANSFERRED	ACREAGE	OWNER	REFERENCE'	COMMENTS
52	1/14/1942	46.242,	Monroe Jacob Post	49	COOLUMN TO CO
32	1/14/1742	56,379	and Dellaphine	47	,
		. 501575	Post, his wife		
53	1/14/1942	84.28	The Seneca Falls	56	
	,		Savings Bank		
54	1/22/1942	89.74	C. Edward	62, 63	
		,	Montford and	·	
			Emily Cutler		
			Montford, his wife		
.55	1/29/1942	127.9	Harold M. Robbins	56	
·			and Gladys I.		
	1/00/10/10	146	Robbins, his wife	61.00	
56	1/29/1942	145,	Richard	51, 55	
		34.98, 9.60	Montgomery Seeley and Clara		
		9.00	B. Seeley, his wife		
57	1/30/1942	166.08,	Wilson G.H.	57	
1	1/30/1/42	26.85	Buchholz, Esther		•
			G. Buchholz, his		
			wife, and August		
	,		L. Buchholz,		
			widower		,
58	3/9/1942 .	8.805	John Dwire, et al.	51	
59	8/11/1941	15,	John E. Deasy, et	62, 69	
		64.35,	al.		
		62.05, 135.03,	•		
		64.35,			
		62.05,		1	
		0.034	•		
60	4/2/1942	137.578,	Monroe J. Post and	51	
** ** ** *	4 - 2 - 4 - 24 - 24 - 24 - 24 - 24 - 24	49.632	Delaphine Post, his		•
			wife		:
61	2/16/1942	67	August L.	57	
			Buchholz		
62	5/7/1942	9.327,	Francis H.	58, 63	i i
		31.123,	Lockwood and		,
		19.27	Cora P. Lockwood, his wife		
63	8/7/1942	58.57	Jay H. Van Riper,	62	
	0///1742	30,37	et al.		:
64	9/25/1941	12	E.P. Walker, et al.	63	<u>'</u>
65	10/2/1941	48,	First National	57	:
	,	0.8,	Bank of Waterloo,		
		1.2	a New York	a company to the second of the	May be a second of the second
			Corporation		

REPORT	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE"	COMMENTS
66	10/29/1941	67	Albert J. Covert and Bertha M. Covert, husband and wife	56	
67	8/22/1941	50	Laverna Deady, et al.	51	
68	11/13/1941	12.096, 47.028	Harry Guilfoos, Florence S. Guilfoos, his wife; Burgess Guilfoos, Myra D. Guilfoos, his wife and William Guilfoos and Jennie Guilfoos, his wife	53	
69	11/14/1941	100, 81	Peter Murphy and V. Mae Murphy, husband and wife	51, 52	
70	11/14/1941	37,001	Alida A. King and Flood S. King, her husband	52	
71	12/23/1941	2.17, 0.5, 0.5, 0.091	Floyd J. Russell and Maude Russell, his wife	66	
72	12/17/1943	8.946, 0.844	Emerson G. O'Connor as Commissioner of Public Welfare District, Waterloo, Seneca County	87	
73	11/21/1941	Unstated	Walter Howerth and Myra / Howerth, his wife, and Warren Reeder and Katherine Reeder, his wife	74	
74	12/1/1941	85.05	Walter Howerth and Mary Howerth, his wife	74	
75	12/1/1941	26	Daniel A. Johnson and Margaret M. Johnson, his wife	87 :	:
76	11/29/1941	1.3	The First Baptist Church of Romulus, a New York corporation	67	

REPORT	DATE			OWNERSHIP MAP		
PARCEL	TRANSFERRED	ACREAGE	OWNER	REFERENCE'	COMMENTS	
77	7/28/1941	175.50	Ellen A. Garnett,	130, 131, 131a	CO/////23100	
'' .	1120/1341	175.50	et al.	150, 151, 1514		
. 78	11/22/1941	106.25	Charles E. and	75		
/ /	11/22/1741	100.25	Margaret M.			
			Kaufman, husband			
			and wife	1		
79	11/22/1941	82.15	Earl Bogardus and	67		
			Ora Bogardus, his			
			wife			
80	11/21/1941	100	Warren Reeder and	74		
			Katherine Reeder,			
			his wife			
81	11/21/1941	1.537	Francis C. Hinman	75 .		
			and Leona E.			
			Hinman, his wife			
82	11/14/1941	70	Clayton H.	67		
		: .	Ernsberger and			
			Martha B.		7.3	
ľ.			Ernsberger, his			
83	11/14/1041	0.833	Homer W. Burritt	67		
83	11/14/1941	0.833	and Ruth E.	0/		
1:	·		Burritt, also known	,	;	
ľ			as Ruth S. Burritt,	:		
			his wife			
. 84	11/14/1941	136.75	Doc E. Budman,	74		
			widower		:	
85	11/14/1941	117,	Haratio D. Burritt,	67		
		0.866	widower			
86	11/14/1941	100.41	Charles J.	67		
			Baldridge and		•	
	i		Mary K.	,	·	
			Baldridge, his wife			
87	11/14/1941	50 '	Clifford A. Fingar	81		
			and Cora B.	:		
	10/20/1041	100	Fingar, his wife			
88	10/30/1941	100	Claudius C. Cole, widower and	68		
	· 7		Charles E.	,	·	
			Kaufman and			
			Margaret M.			
			Kaufman, his wife		·	
89	10/30/1941	49,	Leonard D. Moses	68	- 100 - 1	
		0.37	and Dorothy			
		1 1 1	Moses, his wife	:		
90	10/29/1941	14,	Harry J. Williams	67	and the second	
		11	and Grace D.			

REPORT PARCEL	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE'	COMMENTS
(4-10)22====	MANAGEMENT OF THE STATE OF THE		Williams, his wife		COMMISSION
91	10/29/1941	Unstated	Robert E. Sheridan and Mary A. Sheridan, husband and wife	67	
92	10/29/1941	Unstated .	Benjamin Franklin Gates and Anna E. Gates, husband and wife	67	
93 .	8/11/1941	232.21	J. Wallace Coryell, et al.	74, 75	
94	9/4/1941	175.50	Clinton L. Garnett, individually and as Administrator of the Estate of Millard F. Garnett, deceased	Unknown	
95 ·	9/4/1941	175.50	Eleen A. Garnett	130, 131, 131a	
96	10/7/1941	10, 0.16	J. Wallace Coryell and M. Alice Coryell, his wife	74	
97	12/29/1942	23.18	Peter McCarl	79, 80	
98	4/10/1942	122.3	Clement B. Cole and Elizabeth G. Cole, his wife, and Claudius C. Cole and Jennie M. Cole, his wife	66	
99.	11/29/1941	12, 103	Charles J. Baldridge and Mary K. Baldridge, his wife	74, 80	1
100	12/8/1941	20.58	Joseph Bruce, unmarried	80	
101	12/8/1941	11	Frank J. Marsh, widower	80	
102	12/9/1941	93, 10	Mary B. Baldridge, widow	74, 75	
103	12/8/1941	24	Wilbert Leroy Gates and Virginia M. Gates, his wife	66	:
104	11/26/1941	19.371/2	Julia E. Litchfield and Frank W. Litchfield, her husband	68	

				(WNERSHIP)	
REPORT	DATE	4000400	OWNED	MAP REFERENCE	COMPUTE
PARCEL	12/15/1941	ACREAGE	OWNER Clare M. Rundell	L 110.00.00.00.00.00.00.00.00.00.00.00.00.	COMMENTS
105	12/15/1941	167.76,		68, 74	
		20	and Mary L.		
			Rundell, husband		
			and wife		
106	12/16/1941	2 .	Jennie E. Osford,	66	
			widow		
.107	12/16/1941	22	Erik Alexander	87	,
			Yougherg and		
			Helena Alexandera		
			Yougberg, his wife		
108	12/15/1941	1	Mont Troutman,	87	
			Clara T. Bonard		
			and her husband		
		'	George, Maude T.		
			Russell and F.J.		
			Russell, her		
			husband, Zadie T.		
			Yakley and	· '	
		`	Reuben, her		
		;	husband, John		: ,
			Troutman and		
		. 1	Emma, his wife		
			and Mary and Bert		: .
·		· i	T. Young, husband		
			and wife		
109	12/16/1941	1	Earl Bogardus and	66	
			Ora Bogardus, his	,	
			wife		4
110	12/23/1941	0.45	Thomas J.	66	
			Bogardus and		
			Bernice Bogardus,		
			his wife		:
111	12/3/1941	20,	Richard Voight	66	
		2.83,	and Mildred R.		
		1.75	Voight		
112	12/23/1941	10	Emerson G.	81	
	1		O'Connor	, 7 - 1	
113	12/23/1941	5	James G. Crane	66	
113			and Susie Crane,		
			his wife		·
114	11/21/1941	59	Issac W. Williams,	66	
114	i iimii 1941		widower		-
115	12/23/1941	93.66	Clarence E. Gates	66	
113	12/23/1741	93,00	and Myrtle Gates,	100	:
		Ĺ	his wife:	j	!
			ms wite		

REPORT PARCEL	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE!	COMMENTS
116	1/2/1942	182.06	Veronica Maher, individually and as Executrix of the Estate of John Maher, deceased	81, 82	
118	1/2/1942	60, 78.16	John McGinnis and Mary E. McGinnis, his wife	81, 88, 89	
119	1/2/1942	22.201, 5.989	Albert L. Conkling and Thusa B. Conkling, husband and wife	79	
120	1/2/1942	88.02	Seneca Falls Savings Bank	67 .	
121	1/2/1942	102.14	The First National Bank of Ovid	81	
122	1/2/1942	57.25, 11.561	Minnie J. Bogardus widow, and Alvah Bogardus, unmarried	66	
123	1/2/1942	103.363	Thomas Kokot and Josephine, his wife	75, 76	• •
124	1/14/1942	54	Jesse Y. Covert and Nora, his wife	89	
125	1/14/1942	4.74	John Troutman and Emma Troutman, his wife	75	
126	1/14/1942	65	Ella Sturges, unmarried	74, 80	
127	1/14/1942	40.07	Thomas Sturges, unmarried and Ella Sturges, unmarried	81	
128	1/14/1942	140	Raymond B. Wells and Henrietta E. Wells, his wife	80, 87	
129	1/14/1942	160.95	Willis W. Blaine, unmarried	88, 89	
130	1/14/1942	38.254	Emma Bolles, widow, and Albert Bolles	68	
131	1/14/1942	3	Mary C. Harrington, widow	87	
132	1/14/1942	57.99, 53.055	Margaret Fitzgerald	82	1
133	1/14/1942	20.39,	Anna L. Carey.	75	

				OWNERSHIP	
R(#2(e)5(t)	DATE			MAP	
PARCEL	TRANSFERRED	ACREAGE	OWNER	REFERENCE!	COMMENTS
134	1/14/1942	65.099,	Vance Crane and	82	
1 1		55,991,	Nellie R. Crane,		
		65.37	his wife, and Ella		·
			Everett, unmarried		
135	1/22/1942	11.8	M. Alice Coryell,	81	
			Julia E. Litchfield,		
			Dean R.		
			Fillingham,		
	·		George Fillingham		
			and Glenn		
			Fillngham, Helen		
			F. Carter, Emily		
İ	-	·	Cornzve, Alice		
	·		Lewis and Frances		
			S. Fillingham		
136	1/22/1942	109.03	Anna C. Williams	68	
137	1/22/1942	3.25,	Walter S. Carmer	88	
		29.25	and Emma		
			Carmer, his wife		
138	1/22/1942	. 2	Fannie Louise	66 .	
·			Walker		
139	1/29/1942	115.1	Leon B. Godley	81	
			and Eva M.		
			Godley, his wife	· · · · ·	
140	1/29/1942	47.244,	Charles Dunlap,	88	
		52.506	widower		
141	1/22/1942	6.798	Paul P. Kinne and	88	
·			Dorothy W. Kinne,		
			his wife		
142	2/18/1942	34.50,	Roy Doane and	88	
i 1		11	Daisy Doane, his		
			wife		
143	2/18/1942	12.13,	Stella Jurewicz and	75	- '
		14,	Joseph Jurewicz,		
		23.64,	her husband		
	1/14/1040	6,54	01 1 0 0		
144	1/14/1942	48.78,	Charles C. Carson	80	
		51.79,	and Florence C.	* * v	
145	1/14/1040	2	Carson, his wife		
145	1/14/1942	100.54	Doc E. Budman,	.74	
146	2/16/1042	04.00	Widower	87	· · · · · · · · · · · · · · · · · · ·
146	2/16/1942	84.09	Clarence N.	0/	
'			Freligh, and Lois		
	I	. 1	H. Freligh, his wife	;	
147	3/12/1942	222.21	J. Wallace Corvell,	75, 81, 87	
14/	3/12/1942	232.21		75, 61, 67	;
			et al.		r is many

REPORT	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE	COMMENTS
148	4/1/1942	5.27	Marion E. Crane and Martha B. Crane, his wife	66	
149	4/1/1942 ; : :	51.45	John B. Trainor and Cecelia Keenan Trainor, his wife	76, 82	
150	4/1/1942	.013	Percy B. Smith and Pauline Smith, his wife	66	
151	4/1/1942	0.067	Anna Hamilton, widow	66 .	
152	4/2/1942	73	Joseph McElroy and Nora K. McElroy, his wife, and Anna M. McElroy, widow	81	
153	3/13/1942	18	Maude E. Secor and Clifford R. Secor	139	
154	4/20/1942	171.447	Elizabeth Alleman and Marion Alleman	64	
155	5/7/1942	2.261	R. Augusta Hagerty, widow	64	
156	2/24/1942	4	Albert J. Covert and Bertha M. Covert, his wife,	67	
	Teason p p 4 pr		Lena E. Garrison, Ida G. Van		•
			Nostrand, widow, Alice M. Crane and Chester Crane,		·
•			her husband, Thusa B. Conkling and Albert L.		
		:	Conkling, her husband, Leslie A. Covert and Hazel		
	, ,		O. Covert, his wife all the heirs to the Last Will and		
			Testament of Horatio J. Covert, deceased	:	

				OWNERSHIP	
REPORT	DATE			MAP	
PARCEL	TRANSFERRED	ACREAGE	OWNER	REFERENCE"	COMMENTS
157	5/27/1942	102.87,	Daniel W. Brown	80, 81	
137	3/2//1542	11.84,	as agent for the	00, 01	
		8	stockholders of		
·		ŭ	Romulus National		
			Bank, Romulus,		
]	NY		
158	4/2/1942	55	Charles A. Freligh,	80	
150	112/13/12		an infant and J.		
			Seward Bodine,		
			his Special		
			Guardian		
159	5/27/1942	55	Cora E. Freligh,	80	
			widow and Frances		
			E. Freligh,		
			unmarried, with		
·			Charles A. Freligh,	:	
			an infant, heirs of		
1		·	Charles A. Freligh,	i	
			deceased	• .	
160	5/27/1942	256.89,	Winfield A. Smith,	72, 73, 74	
		61.635,	unmartied		
		136.65			
161	7/15/1942	7,243	Leslie D. Marquart	64	
	,	except 0.365	and Lida Marquart,		
			his wife	*	
162	7/15/1942	.486	Maurice M. Crane	64	
			and Daisie M.		·
			Crane, his wife		
163	4/2/1942	83.21	George F.	75	
		(except	Kirkmire and		:
		6.06,	Marie Kirkmire,		
		6.06),	his wife		
<u> </u>	# 10 1: 0 : 0	40	BL (B)		
164	7/9/1942	Unstated	First Baptist	66	
			Church of		
			Romulus, an		
	,		Incorporated Religious		
		:	Association of the	;	
	}		State of New York,	:	
			and The Cemetery		
			Association of The	;	
			First Baptist	:	
			Church and		
			Society of	1	
			Romulus, a		
			Membership	1	
1			corporation of NY		
			corporation of NY		

REPORT	DATE TRANSFERRED	ACREAGE	OWNER	OWNERSHIP MAP REFERENCE	COMMENTS
165	6/12/1942	50, 5.5, 2.5, 2	John G. Secor and Maude E. Secor, his wife	75, 81	
166	5/14/1942	10, 11	Harry Quinn and Helen Quinn, his wife	87	

Note:

*Source: Project Map, Seneca Army Depot, Romulus, New York.



ENVIRONMENTAL DATABASE, INC.

7061 S. University Blvd. • Suite 300 Littleton, Colorado 80122 (303) 794-8389 • 1-800-982-4627 • Fax (800) 615-0049

Chain Of Title Document Review

Project Number: E9518BZ

Installation: Seneca Army Depot

Seneca County, NY

Report To: Kate Power

2/01/96

From: Paul Lehnertz

Environmental Database, Inc.

Enclosed please find the Chain Of Title report for the Seneca Army Depot installation.

Paul Lehnertz

ENVIRONMENTAL TITLE SERVICES, INC. 401 EUCLID AVENUE, SUITE 445 CLEVELAND, OHIO 44114-2402

•	
PHONE: (216) 696-5554	FAX: (216) 861-3433
RE: SENECA ARMY DEPOT, SENECA COUNTY, NEW YORK	
SUBJECT PROPERTY ADDRESS	***
NO: <u>4082</u>	
	•
LIABILITY: \$5,000.00	
	•
ENVIRONMENTAL TITLE SERVICES, INC.	
A OHIO CORPORATION, HEREIN CALLED ("ETS"),	
SUBJECT TO THE TERMS AND CONDITIONS OF THE AGREEME	NT
FOR THIS ENVIRONMENTAL TITLE THE HISTORY	
REPORTS TO	
ENVIRONMENTAL DATABASE, INC.	
	. :
CLIENT The second of the seco	
THAT ACCORDING TO ETS' REVIEW OF THE DESIGNATED DOCUMENTS REGAR	DING THE SUBJECT
PROPERTY AS REQUESTED BY THE CLIENT IN THE AGREEMENT, ONLY THOSE N	
IN THE ANNEXED INVENTORY TO WIT DESCRIBING THE SUBJECT PROPERTY,	
ARE HEREIN LISTED.	
THIS ENVIRONMENTAL TITLE THE HISTORY REPORT IS NOT VALID AND	ETÉ CHÁIL HAVE
NO LIABILITY THEREUNDER UNLESS THE APPLICATION, OR A COP	
ATTACHED HERETO.	i illekeor, is
DATE: JANUARY 31, 1996 BY:	1/11/1
	ÜRE

401 EUCLID AVENUE, SUITE 445 CLEVELAND, OHIO 44114

PHONE: (216) 696-5554

FAX: (216) 861-3433

·
ENVIRÓNMENTAL TITLE TM HISTORY REPORT NO. 4082
SEARCH TYPE
X_ GRANTEE/GRANTOR INDEX SEARCH (LIMITED IN SCOPE).
FULL DOCUMENT ABSTRACTION AND REVIEW OF DESIGNATED DOCUMENTS.
POTENTIALLY RESPONSIBLE PARTY INVESTIGATION
ETS HEREBY REPORTS:
THAT, ACCORDING TO ETS TITLE PLANT RECORDS AND/OR THOSE RECORDS MAINTAINED BY COUNTY RECORDER KNOWN AS THE GRANTEE/GRANTOR INDICES FROM AUGUST 8, 1941
TO JANUARY 30, 1996 AND ACCORDING TO SUCH OTHER PUBLICLY AVAILABLE RECORDS OF
WHICH INQUIRY HAS BEEN MADE UPON REQUEST IN THE APPLICATION THEREFOR, RELATIVE TO
THE SUBJECT PROPERTY AS DESCRIBED BELOW (BUT WITHOUT EXAMINATION OF THOSE
COMPANY TITLE PLANT RECORDS MAINTAINED AND INDEXED BY NAME), THOSE MATTERS SET
FORTH IN THE ANNEXED INVENTORY TO WIT DESCRIBING THE SUBJECT PROPERTY WERE FOUND
AND HEREIN LISTED.
in the state of the state of the state of the state of the state of the state of the state of the state of the
DESCRIPTION: SEE EXHIBIT "A"

SEE CONTINUATION PAGES FOR INVENTORY ITEMS

Dated

Filed

Vol./Pg.

1) The United States of America took title from:

The Trustees of First Baptist Cemetery Association and Society of Romulus, NY, by Declaration of Taking:

10/20/1941

10/23/1941

183/164

-3.25a (acres)

2) The United States of America took title · from:

Chester Phillips, Frank S. Williams and Carrie Isabelle Williams, his wife, by Declaration of Taking: 8/8/1941 . 183/27

8/4/1941

-310.82a

3) The United States of America took title from:

First National Bank of Waterloo, Chester Phillips, Marline Phillips and John Sutton by Declaration of Taking:

8/4/1941

8/8/1941

183/24

-199a

4) The United States of America took title from: market in the state of the

Violet Yates, et al., by Declaration of Taking:

3/6/1942

3/9/1942

184/372

-221.75a

5) The United States of America took title from:

Clement B. Cole, et al. by Declaration of Taking:

1/19/1942

1/22/1942

184/248

-242.56a

Dated

Filed

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6) The United States of America took title from:	Trustees of School District No. 19, Varick, NY, by Declaration of Taking: 12/17/1941 12/22/1941 184/190
7) The United States of America took title	
from:	Lehigh Valley Railroad by Declaration of Taking: 4/21/1943 6/1/1942 185/492 -Consisting of 5 parcels as 3,126 sf (square feet), 128.33 sf, 0.552 of an acre, 0.228 of an acre, 139.28 sf.
8)The United States of America took title	
from:	Chester Phillips, et al, by Declaration of Taking: 8/4/1941 8/8/1941 183/27 -Consisting of 67, 0.5, 89, 122.32 and 243.82 acre parcels.
9) The United States of America took title	
from:	Albert A. Van Riper and Catherine G. Van Riper; Frank Dullmeyer and Frances, his wife, by Deed: 11/22/1941 12/1/1941 184/135
	-Containing a 52, 32.68, 0.90 and 0.90 acre parcels.
10)The United States of America took title	
from:	John B. Lisk and Edith S. Lisk, his wife, by Deed: 12/1/1941 12/1/1941 184/134 -67.31a

Dated

Filed

Vol./Pg.

11) The United States of America took title from:

George G. Ehle, widower, by Deed:

12/1/1041

12/1/1941

184/132

-85a

12) The United States of America took title from:

Libby Laskowske, widow, by Deed:

12/1/1941

12/1/1941

184/131

-68.14a

13) The United States of America took title from:

Myrtle C. Moses, and Charles F. Moses, her husband,

by Deed:

11/29/1941

11/29/1941

184/129

-.5a

14) The United States of America took title

Jay H. Van Riper and Pear M. Van Riper, his wife by

Deed:

11/29/1941

11/29/1941

184/128

-66.59a

15) The United States of America took title from:

Albert Collins, by Deed:

11/29/1941

11/29/1941

12 11 1 1 1 1 1 1

184/127

-40a

16) The United States of America took title from: 1.123.11

Wilson Grant Hunt Buckhollz and Esther G. Buchholz.

his wife, by Deed:

10/30/1941

11/29/1941

184/122

-67a

Dated

Filed

Vol./Pg.

17)The United States of America took title from:

Adelbert Abner Thompson and Martha B. Thompson, his wife, by Deed:

11/21/1941

11/22/1941

184/118

-50a

18)The United States of America took title from:

Anna May McGrane, S. Agnes McGrane, Gordon McGrane, unmarried and Charles McGrane, married, by Deed:

11/21/1941

11/21/1941

184/115

-100a

19) The United States of America took title from:

Anna M. McGrane and Gordon McGrane, Executors of the last Will and Testament of Margaret McGrane, by Deed:

11/21/1941

11/21/1941

184/113

-100a

20)The United States of America took title from:

John E. McGrane Executor of John McGrane, deceased, by Deed:

11/15/1941

11/15/1941

184/111

-150a

21)The United States of America took title from:

Clara E. Cook, widow and Anna E. McKnight, unmarried, by Deed:

11/15/1941

11/15/1941

184/110

-100a

Dated

Filed

Vol./Pg.

22)The United States of America took title from:

Emma C. Hogan and William E. Hogan, her husband

by Deed:

11/14/1941

11/14/1941

184/106

-131.54a

23) The United States of America took title

Chester W. Phillips and Ina Phillips, his wife, by Deed:

11/22/1941

12/9/1941

182/202

-67a

24)The United States of America took title from:

Marick Wesleyan Methodist Church, et al., by

Declaration of Taking:

11/28/1941

12/5/1941

184/139

-Containing 2 separate 1 acre parcels.

25)The United States of America took title from:

Chester W. Phillips an Ina M. Phillip, his wife, and Merline C. Phillips and Virginia M. Phillips, his wife,

by Deed:

11/22/1941

12/5/1941

184/141

-33a and 50a parcels

26)The United States of America took title from:

Paul and Sadie E. Olsowske, husband and wife, by

Deed:

12/8/1941

12/8/1941

184/145

-109.93a

Dated Filed Vol./Pg. 27) The United States of America took title Scott Briggs and Margaret L. Briggs, his wife, by from: Deed: 12/8/1941 12/8/1941 184/150 -4.5a 28) The United States of America took title Martha B. Crane, married, by Deed: from: 12/8/1941 12/8/1941 184/151 -35a 29) The United States of America took title from: Lillian I. Everett, married, by Deed: 12/8/1941 12/8/1941 184/152 -50a 30) The United States of America took title from: Walter B. Keefer and Georgia Keefer, his wife, by Deed: 12/8/1941 12/8/1941 184/153 -75a and 150a parcels. 31) The United States of America took title Henry J. Hoster, executor of the Albert J. Kreutter from: Will, by Deed: 12/9/19411 12/10/1941 184/158 -50a

Dated

Filed

Vol./Pg.

32) The United States of America took title from:

Barton L Van Riper and Emily L. Van Riper, his wife,

by Deed:

12/9/1941

12/9/1941

184/160

-3.20a

33)The United States of America took title from:

John T. White and Elizabeth Loretta White, his wife,

by Deed:

12/9/1941

12/9/1941.

184/161

-50a

34) The United States of America took title from:

Burt B. Van Riper and Ella S. Van Riper, his wife, by

Deed:

12/9/9141

12/9/1941

184/162

-65.222a and 43.04a parcels.

35)The United States of America took title

from:

Martha B. Thompson by Deed:

12/9/9141

12/9/1941

184/164

36) The United States of America took title

from:

Albert Covert and Bertha M. Covert, his wife, by

Deed:

12/15/1941

12/15/1941

184/170

Dated Filed Vol./Pg. 37) The United States of America took title from: Leah E. Thorpe and Harry E. Thorpe, her husband, by Deed: 12/15/1941 12/15/1941 184/172 -97.27a 38)The United States of America took title William O'Marra and Frances Catharine O'Marra, by from: Deed: 12/15/1941 12/15/1941 184/173 -2a 39) The United States of America took title from: Martin O'Marra and Mary E. O'Marra, his wife, by 12/15/1941 12/15/1941 184/174 -17.108a and 31.759a parcels. 40)The United States of America took title Frank Komonek and Eva Komonek, his wife, by Deed: from: 12/15/1941 12/15/1941 184/175

41)The United States of America took title from:

Rosetta Campbell and John Campbell her husband, by

Deed:

-21a

12/15/1941 12/15/1941 184/176

-51a

42) The United States of America took title from:

Fred C. Thorp and Bertha H. Thorp, his wife, by Deed:

12/15/1941 12/15/1941

184/177

-101a

Dated

Filed

Vol./Pg.

43) The United States of America took title from:

Charles H. Jacobus and Laura M. Jacobus, his wife, by

Deed:

12/16/1941

12/16/1941

184/178

-65.95a

44)The United States of America took title from:

John B. Lisk, Edith S. Lisk, his wife and Charles W.

Lisk, widower, by Deed:

12/9/1941

12/16/1941

184/180

-57.71a

45)The United States of America took title from:

Edith S. Lisk and John B. Lisk, her husband, by Deed:

12/9/1941

12/16/1941

184/182

-89.17a

46)The United States of America took title

from:

Harry Pettit and Elizabeth Pettit by Deed:

12/16/1941

12/16/1941

184/188

-25a

47)The United States of America took title

人名英克里斯 经联合管 计电流

from:

Ernest N. Van Riper and Irene B. Van Riper, his

wife, by Deed:

12/23/1941

12/33/1941

184/204

-112.25a

Dated

Filed

Vol./Pg.

48) The United States of America took title

from:

J. Oren Somerville and Mary G. Sommerville, his wife.

by Deed:

12/23/1941

12/23/1941

184/206

-2a

49) The United States of America took title from:

Emma S. Bolles, widow, by Deed:

12/23/1941

12/23/1941

184/207

-76a

50) The United States of America took title from:

Charles J. Baldridge and Mary K. Baldridge, his wife

A Committee of the second

by Deed:

11/29/1941

1/2/1942

184/217

-Two parcels totaling 51.55 acres.

51) The United States of America took title from:

Thomas W. Osborne, unmarried, by Deed:

1/2/1942

1/2/1942

184/222

-12.142a

52) The United States of America took title from:

Monroe Jacob Post and Dellaphine Post, his wife, by

Deed:

1/14/1942

1/15/1942

184/238

-46.242a

53) The United States of America took title from:

The Seneca Savings Bank by Deed:

1/14/1942

1/15/1942

184/241

-84.28a

Dated

Filed

Vol./Pg.

54) The United States of America took title from:

C. Edward Montford and Emily Cutler Montford, his

wife, by Deed: 1/22/1942

1/22/1942

184/252

-89.74a

55)The United States of America took title from:

Harold M. Robbins and Gladys I. Robbins, his wife, by

Deed:

1/29/1942

1/29/1942.

184/267

-127.9a

56)The United States of America took title from:

Richard Montgomery Seeley and Clara B. Seeley, his

wife, by Deed:

1/29/1942

1/29/1942

184/271

-145 and 34.98 acre parcels.

57)The United States of America took title

Wilson G. H. Buchholz, Esther G. Buckholz, his wife,

and August L. Buchholz, widower, by Deed:

1/30/1942

1/30/1942

184/2/.

0

-166.08 and 26.85 acre parcels

58) The United States of America took title from:

John Dwire, et al, by Declaration of Taking:

- 3/9/1942

3/17/1942

184/379

-8.805a

and all be will and the good of

Dated Filed Vol./Pg.

59)The United States of America took title from:

John E. Deasy, et al, by Declaration of Taking: 8/11/1941 3/7/1942 184/381 -15, 64.35, 62.05, 135.03, 15, 64.35, 62.05, 134.69 acre parcels as well as a 1,500 square foot parcel.

60)The United States of America took title from:

Monroe J. Post and Delaphine Post, his wife, by Deed: 4/2/1942 4/2/1942 184/405 -137.578, 49.632 acre parcels.

61)The United States of America took title from:

August L. Buchholz by Deed; 2/16/1942 5/11/1942 184/423 -67a

62)The United States of America took title from:

Francis H. Lockwood and Cora P. Lockwood, his wife by Deed: 5/7/1942 5/27/1942 184/430 -9.327, 31.123 and 19.27 acre parcels.

63)The United States of America took title from:

Jay H. Van Riper, et al, by Declaration of Taking: 87/1942 8/12/1942 184/472 -10.69, 10.69, 20, 6, 10.69, 10.69, 20, 6, 10.69 and 1/2 acre parcels.

64)The United States of America took title from:

E.P. Walker, et al by Declaration of Taking: 9/25/1941 10/2/1941 183/135 -12a

Dated

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65)The United States of America took title from:

First National Bank of Waterloo, a new York corporation, by Deed:

10/2/1941

10/2/1941

183/138

-48 and 80/100ths acres and 1 1/5th acre parcels

66)The United States of America took title from:

Albert J. Covert and Bertha M. Covert, husband and

wife, by Deed: 10/29/1941

10/29/1941

184/68

-67a

67) The United States of America took title from:

Laverna Deady, et al, by Declaration of Taking:

8/22/1941

8/22/1941

184/78

-50a

68)The United States of America took title from:

Harry Guilfoos, Florence S. Guilfoos, his wife; Burgess Guilfoos, Myra D. Guilfoos, his wife and William Chilfoos and Jennie Guilfoos, his wife, by

Deed:

11/13/1941

11/14/1941

184/100

-12.096 and 47.028 acre parcels.

69) The United States of America took title from:

Peter Murphy and V. Mae Murphy, husband and wife,

by Deed:

11/14/1941

11/14/1941

184/101

-100 and 81 acre parcels.

Dated

Filed

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70) The United States of America took title from:

Alida A. King and Flood S. King, her husband, by

Deed:

11/14/1941

11/14/1941

184/104

-37.001a

71) The United States of America took title from:

Floyd J. Russell and Maude Russell, his wife, by Deed;

12/23/1941

12/23/1941

184/198

-2.17, 1/2, 1/2, and 1/11 acre parcels.

72) The United States of America took title from:

Emerson G. O'Connor as Commissioner of Public Welfare District, Waterloo, Seneca County by Deed:

12/17/1943

1/21/1944

186/241

-8.946 and 0.844 acre parcels.

73) The United States of America took title

from:

Walter Howerth and Myra Howerth, his wife, and Warren Reeder and Katherine Reeder, his wife, by

Deed:

11/21/1941

12/1/1941

184/137

-Acreage unstated.

74) The United States of America took title

from:

Walter Howerth and Mary Howerth, his wife, by Deed:

12/1/1941

12/1/1941

184/133

-85.05a

Dated

Filed

Vol./Pg.

75) The United States of America took title from:

Daniel A. Johnson and Margaret M. Johnson, his wife,

by Deed:

12/1/1941

12/1/1941

184/130

-26a

76) The United States of America took title from:

The First Baptist Church of Romulus, a New York

corporation, by Deed:

11/29/1941

11/29/1941

184/125

-1.3a

77) The United States of America took title from:

Ellen A. Garnett, et al, by Declaration of Taking:

7/28/1941

11/28/1941

184/123

-175.50a

78) The United States of America took title from: .

Charles E. and Margaret M. Kaufman, husband and

wife, by Deed:

11/22/1941

11/22/1941 184/120

-106.25a

79) The United States of America took title from:

Comment of the control of the

Earl Bogardus and Ora Bogardus, his wife, by Deed:

11/22/1941

11/22/1941

184/119

-82.15a

Dated Filed Vol./Pg. 80) The United States of America took title from: Warren Reeder and Katherine Reeder, his wife, by Deed: 11/21/1941 11/21/1941 184/117 -100a 81) The United States of America took title from: Francis C. Hinman and Leona E. Hinman, his wife, by Deed: 11/21/1941 11/21/1941 184/116 -1.537a 82) The United States of America took title Clayton H. Ernsberger and Martha B. Ernsberger, his from: wife, by Deed: 11/14/1941`` 11/14/1941 184/109 -70a 83) The United States of America took title from: Homer W. Burritt and Ruth E. Burritt, also known as Ruth S. Burritt, his wife, by Deed: 11/14/1941 11/14/1941 -5/6th of an acre.

11/14/1941

-136.75a

ORDER NO. - 4082

184/108

Doc E. Budman, widower, by Deed:

11/14/1941

84)The United States of America took title from:

Dated

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85)The United States of America took title from:

Haratio D. Burritt, widower, by Deed:

11/14/1941

11/14/1941

184/105

-117 and 13/15 acres

86)The United States of America took title from:

Charles J. Baldridge and Mary K. Baldridge, his wife,

by Deed:

11/14/1941

11/14/1941

184/103

-100.41a

87) The United States of America took title from:

Clifford A. Fingar and Cora B. Fingar, his wife, by

Deed:

11/14/1941

11/14/1941

184/102

88)The United States of America took title from:

Claudius C. Cole, widower and Charles E. Kaufman and Margaret M. Kaufman, his wife, by Deed:

10/30/1941

10/30/1941

184/76

-100a

89)The United States of America took title from:

Leonard D. Moses and Dorothy Moses, his wife, by

Deed:

Strate and Add to

16111111

10/30/1941

10/30/1941

184/73

-49 and 37/100 acres.

Dated

Filed

Vol./Pg.

90)The United States of America took title from:

Harry J. Williams and Grace D. Williams, his wife, by

Deed:

10/29/1941

10/29/1941

184/40

-14 and 11 acre parcels

91)The United States of America took title from:

Robert E. Sheridan and Mary A. Sheridan, husband

and wife, by Deed:

10/29/1941

10/29/1941

184/69

-No acreage stated.

92) The United States of America took title from:

Benjamin Franklin Gates and Anna E. Gates, husband

and wife, by Deed:

10/29/1941

10/29/1941

184/67

-No acreage stated.

93)The United States of America took title

from:

J. Wallace Coryell, et al., by Declaration of Taking:

8/11/1941

8/21/1941

183/55

-10 acres and 29 rods, 6 6/100ths acres, 123.21, 18 5.50, 2.50, 60, 15.66, 80, 11, 10, and 21 acre parcels.

94) The United States of America took title from:

Clinton L. Garnett, individually and as Administrator of the Estate of Millard F. Garnett, deceased, by Deed:

9/4/1941

9/8/1941

182/194

-175.50a

95)The United States of America took title

from:

Eleen A. Garnett, by Deed:

9/4/1941

9/8/1941

182/193

-175.50a

Dated

Filed

Vol./Pg.

96)The United States of America took title from:

J. Wallace Coryell and M. Alice Coryell, his wife, by

Deed: 10/7/1941

10/7/1941

182/133

-10a and 28 rods.

97) The United States of America took title from:

Peter McCarl by Deed: .

12/29/1942

12/29/1942

182/592

-23.18a

98) The United States of America took title from:

Clement B. Cole and Elizabeth G. Cole, his wife, and Claudius C. Cole and Jennie M. Cole, his wife, by Ouit Claim Deed:

4/10/1942

7/30/1942

185/15

-122.3a

Note - Subject property excepted the "Right of Way and Freight Yard of the Lehigh Valley Railroad Company" from the transaction.

99)The United States of America took title from:

Charles J. Baldridge and Mary K. Baldridge, his wife,

by Deed:

11/29/1941

12/8/1941

184/147

-12a and 103a parcels.

100)The United States of America took title from:

THE LINES OF

Beerly Brown Br. D. D. W.

Joseph Bruce. unmarried by Deed;

12/8/1941

12/8/1941

184/148

-20.58a

140000

Dated

Filed

Vol./Pg.

101)The United States of America took title from:

Frank J. Marsh, widower, by Deed"

12/8/1941

12/8/1941

184/149

-11a

102)The United States of America took title from:

Mary B. Baldridge, widow by Deed:

12/9/1941

12/9/1941

184/163

-93 and 10 acre parcels.

103)The United States of America took title from:

Wilbert Leroy Gates and Virginia M. Gates his wife,

by Deed:

12/8/1941

12/8/1941

184/165

-24a

104)The United States of America took title from:

Julia E. Litchfield and Frank W> Litchfield, her

husband, by Deed:

11/26/1941

12/9/1941

184/166

-19.371/2a

105)The United States of America took title from:

Clare M. Rundell and Mary L. Rundell, husband and

wife, by Deed:

12/15/1941

12/15/9141

.184/171

-167.76 and 20 acre parcels.

106)The United States of America took title from:

Jennie E. Osford, widow, by Deed:

12/16/1941

12/16/1941

184/179

-2a

Dated

Filed

Vol./Pg.

107)The United States of America took title from:

Erik Alexander Yougberg and Helena Alexandera

Yougherg, his wife, by Deed:

12/16/1941

12/16/1941

184/184

108) The United States of America took title from:

Mont Troutman, Clara T. Bonard and her husband George, Maude T. Russell and F.J. Russell, her husband, Zadie T. Yakley and Reuben, her husband, John Troutman and Emma, his wife and Mary and . Bert T. Young, husband and wife, by Deed:

12/15/1941

12/16/1941

184/185

-la

109)The United States of America took title from:

Earl Bogardus and Ora Bogardus, his wife, by Deed:

12/16/1941

12/16/1941

184/187

-1 a

110)The United States of America took title from:

Thomas J. Bogardus and Bernice Bogardus, his wife,

by Deed:

12/23/1941

12/23/1941

184/201

-.45a

.111)The United States of America took title from:

tion in its answering

. 1996 March

Richard Voight and Mildred R. Voight by Deed:

12/3/1941

12/23/1941

184/200

-20, 2.83 and 1 3/4 acre parcels.

1 1 2 1

Dated Filed Vol./Pg. 112) The United States of America took title from: Emerson G. O'Connor by Deed: 12/23/1941 12/23/1941 184/202 -10a 113) The United States of America took title from: James G. Crane and Susie Crane, his wife, by Deed: 12/23/1941 12/23/1941 184/203 114) The United States of America took title from: Issac W. Williams, widower, by Deed: 11/21/1941 12/23/1941 184/205 -59a 115)The United States of America took title Clarence E. Gates and Myrtle Gates, his wife; by from: Deed: 12/23/1941 12/23/1941 184/208 -93.66a 116) The United States of America took title from: Veronica Maher, individually and as Executrix of the Estate of John Maher, deceased, by Deed: 1/2/1942 1/2/1942 184/210 -182 06a -182.06a 118) The United States of America took title from: John McGinnis and Mary E. McGinnis, his wife, by

Deed: 1/2/1942

184/211

1/2/1942

-60 and 78.16 acre parcels.

Dated

Filed

Vol./Pg.

119) The United States of America took title

from:

Albert L. Conkling and Thusa B. Conkling, Husband

and wife, by Deed:

1/2/1942

1/2/1942

184/212

-22.201 and 5.989 acre parcels.

120) The United States of America took title from:

Seneca Falls Savings Bank, by Deed:

1/2/1942

1/2/1942

184/214

-88.02a

121) The United States of America took title from:

The First National Bank of Ovid by Deed:

1/2/1942

1/2/1942

184/215

-102.14a

122) The United States of America took title

A second second second

Minnie J. Bogardus widow, and Alvah Bogardus,

unmarried by Deed:

1/2/1942

1/2/1942

184/219

-57 1/4 and 11.561 acre parcels.

123) The United States of America took title from:

Thomas Kokot and Josephine, his wife, by Deed:

1/2/1942

1/2/1942

184/221

-103.363a

124) The United States of America took title from:

and project of the observations where the

Jesse Y. Covert and Nora, his wife, by Deed:

1/14/1942

1/14/1942

184/228

-54a

Dated Filed Vol./Pg. 125) The United States of America took title from: John Troutman and Emma Troutman, his wife, by Deed: 1/14/1942 1/14/1942 184/229 -4.74a 126) The United States of America took title from: Ella Sturges, unmarried by Deed: 1/14/1942 1/14/1942 184/232 -65a 127) The United States of America took title Thomas Sturges, unmarried and Ella Sturges, from: unmarried, by Deed: 1/14/1942 1/14/1942 184/233 -40.07a 128) The United States of America took title Raymond B. Wells and Henrietta E. Wells, his wife, from: by Deed: 1/14/1942 1/14/1942 184/234 -140a 129) The United States of America took title from: Willis W. Blaine unmarried by Deed: 1/14/1942 1/14/1942 184/235 -160.95a 130) The United States of America took title

1/14/1942

-38.254a

184/236

Emma Bolles, widow, and Albert Bolles, by Deed:

1/14/1942

from:

Dated

Filed

Vol./Pg.

131) The United States of America took title

from:

Mary C. Harrington, widow, by Deed:

1/14/1942

1/14/1942

184/237

-3a

132) The United States of America took title

from:

Margaret Fitzgerald, by Deed:

1/14/1942

1/14/1942

184/239

-57.99a

133) The United States of America took title

from:

Anna L. Carey, widow, by Deed:

1/14/1942

1/14/1942

184/240

-20.39 and 3.5 acre parcels.

134) The United States of America took title from:

Vance Crane and Nellie R. Crane, his wife, and Ella

Everett, unmarried by Deed:

1/14/1942

1/14/1942

184/243

-65.099, 55.991 and 65.37 acre parcels.

135) The United States of America took title

and the second of the second o

from:

M. Alice Coryell, Julia E. Litchfield, Dean R.

Fillingham, George Fillingham and Glenn Fillingham, Helen F. Carter, Emily Cornzve, Alice Lewis and

Frances S. Fillingham by Deed:

1/22/1942

1/22/1942

184/253

-11.8a

Dated

Filed

Vol./Pg.

136) The United States of America took title

from:

Anna C. Williams by Deed:

1/22/1942

1/22/1942

184/256

-109.03a

137) The United States of America took title

from:

Walter S. Carmer and Emma Carmer, his wife, by

Deed:

1/22/1942

1/22/1942

184/257

-3.25 and 29.25 acre parcels

138) The United States of America took title

from:

Fannie Louise Walker by Deed:

1/22/1942

1/22/1942

184/259

-2a

139) The United States of America took title

from:

Leon B. Godley and Eva M. Godley, his wife, by

Deed:

1/29/1942

1/29/1942

184/268

-115.1a

140) The United States of America took title

from:

Charles Dunlap, widower by Deed:

1/29/1942 1/29/1942

184/269

-47.244 and 52.506 acre parcels

Dated

Filed

Vol./Pg.

141)The United States of America took title

from:

Paul P. Kinne and Dorothy W. Kinne, his wife, by

Deed:

1/22/1942

1/30/194

184/275

-6.798a

142)The United States of America took title

from:

Roy Doane and Daisy Doane, his wife, by Deed:

2/18/1942

2/18/1942

184/354

-34.50 and 11 acre parcels.

143)The United States of America took title

from:

Stella Jurewicz and Joseph Jurewicz, her husband by

Deed:

2/18/1942

2/18/1942

184/356

-12.13, 14, 23.64 and 6.54 acre parcels.

144)The United States of America took title

from:

Charles C. Carson and Florence C. Carson, his wife,

by Deed:

1/14/1942

1/18/1942

184/360

-48.78, 51.79 and 2 acre parcels.

145)The United States of America took title

from:

Doc E. Budman, widower, by Deed:

1/14/1942

1/18/1942

184/363

-100.54a

Dated

<u>Filed</u>

Vol./Pg.

146)The United States of America took title from:

Clarence N. Freligh, and Lois H. Freligh, his wife, by

Deed:

2/16/1942

2/16/1942

184/364

-84.09a

147) The United States of America took title from:

J. Wallace Coryell, et al, by Declaration of Taking:

3/12/1942

3/18/1942

184/383

-50, 5.5, 2.5, 2, 10 and 21 acre parcels

148) The United States of America took title from:

Marion E> Crane and Martha B. Crane, his wife, by

Deed:

4/1/1942

4/1/1942

184/397

-5.27a

149) The United States of America took title from:

John B. Trainor and Cecelia Keenan Trainor, his wife,

by Deed:

4/1/1942

4/1/1942

184/401

-51.45a

150) The United States of America took title from:

Percy B. Smith and Pauline Smith, his wife, by Deed: 4/1/1942 4/1/1942

184/402

-.013a

Dated

Filed

Vol./Pg.

151) The United States of America took title

from:

Anna Hamilton, widow, by Deed:

4/1/1942

4/1/1942

184/403

-73a

152) The United States of America took title from:

Joseph McElroy and Nora K. McElroy, his wife, and

Anna M. McElroy, widow, by Deed:

4/2/1942

4/2/1942

184/404

-73a

153) The United States of America took title

Maude E. Secor and Clifford R. Secor, by Deed:

3/13/1942

4/9/1942

184/409

-18a

154) The United States of America took title from:

Elizabeth Alleman and Marion Alleman by Deed:

4/20/1942

4/20/1942

184/412

-171.447

155)The United States of America took title from:

R. Augusta Hagerty, widow, by Deed:

5/7/1942

5/7/1942

184/420

-2.261a

Dated

Filed

Vol./Pg.

156)The United States of America took title from:

Albert J. Covert and Bertha M. Covert, his wife, Lena E. Garrison, Ida G. Van Nostrand, widow, Alice M. Crane and Chester Crane, her husband, Thusa B. Conkling and Albert L. Conkling, her husband, Leslie A. Covert and Hazel O. Covert, his wife all the heirs to the Last Will and Testament of Horatio J. Covert, deceased, by Deed:

2/24/1942

5/7/1942

184/421

-4a

157)The United States of America took title from:

Daniel W. Brown as agent for the stockholders of Romulus National Bank, Romulus, NY, by Deed: 5/27/1942 5/27/1942 184/428

-102.87, 11.84 and 8 acre parcels.

158)The United States of America took title from:

Charles A. Freligh, an infant and J. Seward Bodine, his Special Guardian,

4/2/1942

-55a

5/27/1942

184/434

159)The United States of America took title from:

Cora E. Freligh, widow and Frances E. Freligh, unmarried, with Charles A. Freligh, an infant, heirs of Charles A. Freligh, deceased, by Deed:

5/27/1942

5/27/1942

184/436

-55a

160) The United States of America took title from:

Winfield A. Smith, unmarried by Deed:

5/27/1942

5/27/1942

184/439

-256.89, 61.635 and 136.65

Dated

Filed

Vol./Pg.

161)The United States of America took title from:

Leslie D. Marquart and Lida Marquart, his wife, by

Deed:

7/15/1942

7/15/1942

184/456

-7.243 and .365 acre parcels.

162)The United States of America took title from:

Maurice M. Crane and Daisie M. Crane, his wife, by

Deed:

7/15/1942

7/15/1942

184/457

-.486a

163) The United States of America took title from:

George F. Kirkmire and Marie Kirkmire, his wife, by

Deed:

4/2/1942

7/22/1942

184/459

-83 21/100ths, 6 6/100ths, 6 6/100ths and 40 acre

parcels.

164) The United States of America took title from:

First Baptist Church of Romulus, an Incorporated Religious Association of the State of New York, and The Cemetery Association of The First Baptist Church an Society of Romulus, a Membership corporation of

NY, by Quit Claim Deed:

7/9/1942

7/30/1942

184/467

0

-No stated acreage.

165)The United States of America took title from:

John G. Secor and Maude E. Secor, his wife, by Deed:

6/12/1942

8/4/1942

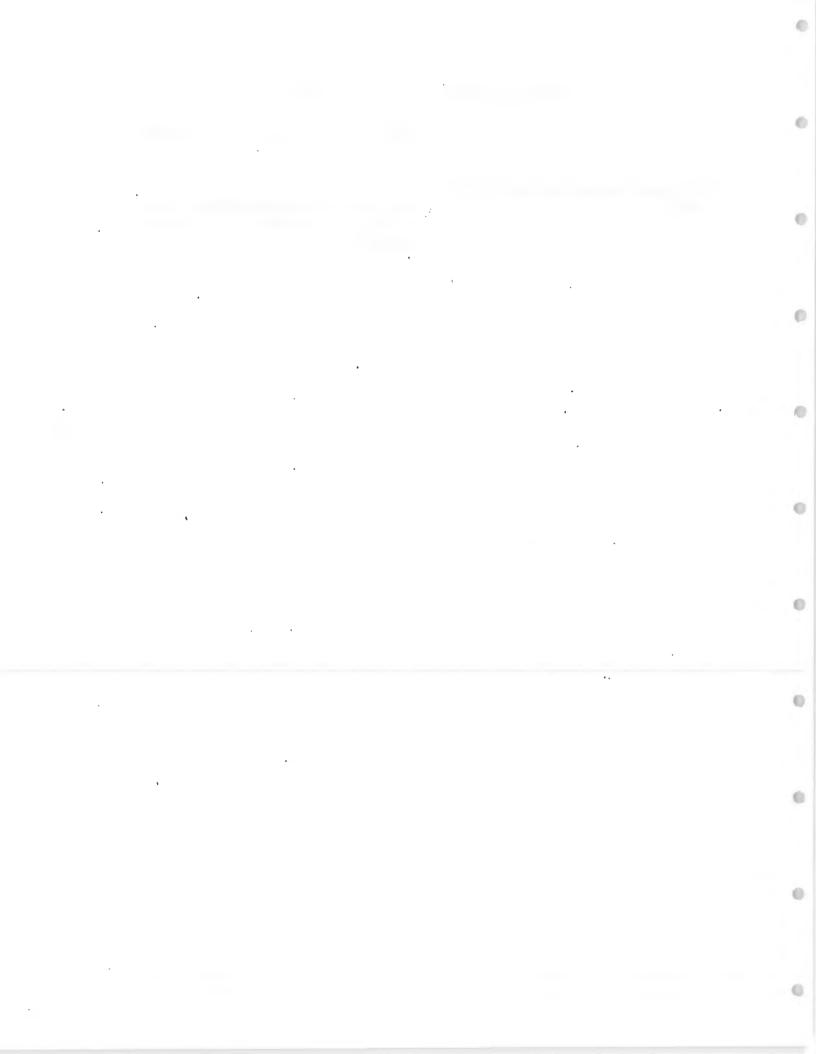
184/468

-50, 5.5, 2.5 and 2 acre parcels.

Dated Filed Vol./Pg.

166)The United States of America took title from:

Harry Quinn and Helen Quinn, his wife, by Deed: 5/14/1942 8/4/1942 184/470 -10 and 11 acre parcels.



APPENDIX G NON-ÇERCLA ISSUES TABLES

1.

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Table G-1
POTENTIAL ASBESTOS HAZARDS AT SENECA ARMY DEPOT ACTIVITY

Building Acreage		SQFT	QFT Asbestos Status		EBS Source o
				Qualifier.	
6	0.013934803	607	Asbestos Present (Survey), No Remediation	<u> </u>	23
106	0.016528926	720	Asbestos Present (Survey), No Remediation		23
106	0.226698806	9875	Asbestos Present (Survey), No Remediation	Α	23
106	0.010743802	468	Asbestos Present (Survey), No Remediation	A	23
113	0.378879706	16504	Asbestos Present (Survey), No Remediation	A	23
117	0.016988062	740	Asbestos Present (Survey), No Remediation	, V	23
117	0.4390955	19127	Asbestos Present (Survey), No Remediation	Α	23
120	0.009182736	400	Asbestos Present (Survey), No Remediation	A	23
122	0.282782369	12318	Asbestos Present (Survey), No Remediation	A	23
124	0.03597337	1567	Asbestos Present (Survey), No Remediation	, A	23
135	0.115105601	5014	Asbestos Present (Survey), No Remediation	A	23
202	0.041460055	1806	Asbestos Present (Survey), No Remediation	A	23
203	0.045913682	2000	Asbestos Present (Survey), No Remediation	A	23
204	0.048989899	2134	Asbestos Present (Survey), No Remediation	A	23
205	0.045913682	2000	Asbestos Present (Survey), No Remediation	A	23
206	0.045913682	2000	Asbestos Present (Survey), No Remediation	A	23
207	0.045913682	2000	Asbestos Present (Survey), No Remediation	A	23
214	0.043526171	1896	Asbestos Present (Survey), No Remediation	A	23
215	0.041460055	1806	Asbestos Present (Survey), No Remediation	A	23
216	0.041460055	1806	Asbestos Present (Survey), No Remediation	٨	23 .
217	0.045913682	2000	Asbestos Present (Survey), No Remediation	A	23
247	0,00137741	60	Asbestos Present (Survey), No Remediation	A	11.
309	0.189187328	8241	Asbestos Present (Survey), No Remediation	A	23
311	0.266942149	11628	Asbestos Present (Survey), No Remediation	A	23
319	0.200942147	2868	Asbestos Present (Survey), No Remediation	A	23
	 				23
334	0.688705234	30000	Asbestos Present (Survey), No Remediation	A -	23
334	0.036065197	1571	Asbestos Present (Survey), No Remediation		
353	0.037695133	1642	Asbestos Present (Survey), No Remediation	A	23
359	0.003443526	150	Asbestos Present (Survey), No Remediation	A	23
360	0.198806244	8660	Asbestos Present (Survey), No Remediation	Α	23
366	0,021808999	950	Asbestos Present (Survey), No Remediation	<u> </u>	23
606	0.078374656	3414	Asbestos Present (Survey), No Remediation	Λ	23
703	0.931404959	40572	Asbestos Present (Survey), No Remediation	Λ	23
704	0.714233242	31112	Asbestos Present (Survey), No Remediation	A	23
705A	0.08822314	3843	Asbestos Present (Survey), No Remediation	A	23
705	0.183562902	7996	Asbestos Present (Survey), No Remediation	. A	23
708	0.714233242	31112	Asbestos Present (Survey), No Remediation	Α	23
715	0,110009183	4792	Asbestos Present (Survey), No Remediation	A	23
720	0,098301194	4282	Asbestos Present (Survey), No Remediation	A	23
. 723	0.395064279	17209	Asbestos Present (Survey), No Remediation	A	23
723	0.136983471	5967	Asbestos Present (Survey), No Remediation	A	23
740	0.047842057	2084	Asbestos Present (Survey), No Remediation	A	23
740	0.055417815	2414	Asbestos Present (Survey), No Remediation	A	. 23
742	0.031955923	1392	Asbestos Present (Survey), No Remediation	A	23
742	0.011478421	500	Asbestos Present (Survey), No Remediation	A	23
800	0.029201102	1272	Asbestos Present (Survey), No Remediation	A	23
804	0.030624426	1334	Asbestos Present (Survey), No Remediation	A	23
806	0.091827365	4000	Asbestos Present (Survey), No Remediation	A	23
807	0.091827365	4000	Asbestos Present (Survey), No Remediation	A	23

Table G-1 (Continued)

Building ' Number	ullding		As bestos Status	Asbestos Qualifier	EBS Source o	
814	0.082231405	3582	Asbestos Present (Survey), No Remediation	A	23	
817	0.021671258	944	Asbestos Present (Survey), No Remediation	A	23	
819	0,189784206	8267	Asbestos Present (Survey), No Remediation	A	23	
2074	0.003627181	158	Asbestos Present (Survey), No Remediation	A	23	
2076	0.124885216	5440	Asbestos Present (Survey), No Remediation	A	23	
2078	0.172038567	7494	Asbestos Present (Survey), No Remediation	A	23	
2079	0.044214876	1926	Asbestos Present (Survey), No Remediation	٨	23	
2085	0.037695133	1642	Asbestos Present (Survey), No Remediation	Α.	23	
2106	0.013429752	585	Asbestos Present (Survey), No Remediation	A	23	
2117	0.259320478	11296	Asbestos Present (Survey), No Remediation	Α.	23	
2118	0.259320478	11296	Asbestos Present (Survey), No Remediation	A	23	
2119	0.259320478	11296	Asbestos Present (Survey), No Remediation	A	23	
2120	0.259320478	11296	Asbestos Present (Survey), No Remediation	A	23	
2121	0.259320478	11296			23	
2122		11296	Ashestos Present (Survey), No Remediation	A A	23	
2123	0.259320478	11296	Asbestos Present (Survey), No Remediation Asbestos Present (Survey), No Remediation	. ^	23	
2123		11296			23	
	0.259320478		Asbestos Present (Survey), No Remediation	A		
2305	0.081841139	3565	Asbestos Present (Survey), No Remediation	A	23	
		5589	Asbestos Present (Survey), No Remediation	A	23	
2434	0.003305785	144	Asbestos Present (Survey), No Remediation	. A	23	
2401	0.061983471	2700	Asbestos Present (Survey), No Remediation	A .	23	
2403	0.042378329	1846 "	Asbestos Present (Survey), No Remediation	^	23	
2404	0.050137741	2184	Asbestos Present (Survey), No Remediation	A	23	
2406	0.050596878	2204	Asbestos Present (Survey), No Remediation	Α.	- 23	
2408	0.094191919	4103	Asbestos Present (Survey), No Remediation	A .	. 23	
2412	0.024494949	1067	Asbestos Present (Survey), No Remediation	A .	23	
2414	0.045179063	1968	Asbestos Present (Survey), No Remediation	A	23	
2415	0.023852158	1039	Asbestos Present (Survey), No Remediation	A	23	
2418	0.017906336	780 '''	Asbestos Present (Survey), No Remediation	A	23 .	
2419	0.029889807	1302	Asbestos Present (Survey), No Remediation	A	23	
2421	0.040426997	1761	Asbestos Present (Survey), No Remediation	A	23	
2423	0.030371901	1323	Asbestos Present (Survey), No Remediation	Α	23	
2425	0.027961433	1218	Asbestos Present (Survey), No Remediation	Α .	23	
2426	0.02222222	968	Asbestos Present (Survey), No Remediation	٨	23	
2427	0.02100551	915	Asbestos Present (Survey), No Remediation	A	· 23 ·	
2429	0.023415978	1020	Asbestos Present (Survey), No Remediation	Α .	· 23	
2432	0.034205693	1490	Asbestos Present (Survey), No Remediation	A	23	
2437	0.041666667	1815	Asbestos Present (Survey), No Remediation	. A	· · · 23	
2438	0.026629936	1160	Asbestos Present (Survey), No Remediation	Y .	23	
2441	0.023553719	1026	Asbestos Present (Survey), No Remediation	Α	23	
2443	0.028420569	1238	Asbestos Present (Survey), No Remediation	Y.	23	
2446	0,026538108	1156	Asbestos Present (Survey), No Remediation	'A	- 23	
2448	0.029063361	1266	Asbestos Present (Survey), No Remediation	· A	23	
2450	0.023553719	1026"	Asbestos Present (Survey), No Remediation	* A	·23·	
2452	0.026767677	1166	Asbestos Present (Survey), No Remediation	. A .	23	
2453	0.030601469	1333	Asbestos Present (Survey), No Remediation	A	23	
2466	0.007300275	.318	Asbestos Present (Survey), No Remediation	- A ·	23	
200-A ' '	0.03503214	1526	Asbestos Present (Survey), No Remediation	A	- 23	
200-B	0.03503214	1526	Asbestos Present (Survey), No Remediation	Α .	23 ·	

Table G-1 (Continued)

Building Number	Acreage	SQFT	Asbestos Status	Asbestos Qualifier	EBS Source of
201-A	0.03503214	1526	Asbestos Present (Survey), No Remediation	A	23
201-B	0,03503214	1526	Asbestos Present (Survey), No Remediation	A	23
208-A	0.058735078	2559	Asbestos Present (Survey), No Remediation	A	23
208-B	0.058735078	2559	Asbestos Present (Survey), No Remediation	٨	23
209-A	0.058735078	2559	Asbestos Present (Survey), No Remediation	A	23
209-B	0.058735078	2559	Asbestos Present (Survey), No Remediation	A	23
210-A	0.040174472	1750	Asbestos Present (Survey), No Remediation	Ä	23
210-B	0.040174472	1750	Asbestos Present (Survey), No Remediation	Ā	23
211-A		1600	Asbestos Present (Survey), No Remediation		23
	0.036730946			A	23
211-B	0.036730946	1600	Asbestos Present (Survey), No Remediation	A	
213-A	0.036730946	1600	Asbestos Present (Survey), No Remediation	A	23
213-B	0.036730946	1600	Asbestos Present (Survey), No Remediation	A	23
218-A	0,036730946	1600	Asbestos Present (Survey), No Remediation	A	23
218-B	0.036730946	1600	Asbestos Present (Survey), No Remediation	٨	23
219-A -	0.040174472	1750	Asbestos Present (Survey), No Remediation	A	23
221-A	0.036730946	1600	Asbestos Present (Survey), No Remediation	Α	23
221-B	0.036730946	.1600	Asbestos Present (Survey), No Remediation	A	23
222-A	0.040174472	1750	Asbestos Present (Survey), No Remediation	Α	23
222-B	0.040174472	1750	Asbestos Present (Survey), No Remediation	A	23
223-A	0.036730946	1600	Asbestos Present (Survey), No Remediation	A	. 23.
223-B	0.036730946	1600	Asbestos Present (Survey), No Remediation	A	. 23
224-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	Α .	23 .
224-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
225-C	0,030291552	1320	Asbestos Present (Survey), No Remediation	- A	23
225-D	0,030291552	1320	Asbestos Present (Survey), No Remediation	A	23
226-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
226-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	Α	23
		1320	Asbestos Present (Survey), No Remediation	A	23
226-C	0.030291552			À	23
226-D	0.030291552	1320	Asbestos Present (Survey), No Remediation		23
227-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	Α	
227-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
227-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	Α	23
227-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
228-A	0,030291552	1320	Asbestos Present (Survey), No Remediation	Α	23
228-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
228-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
228-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
229-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
229-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
230-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A.	23
230-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	. А	23
230-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	. A	23
231-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
231-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
232-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
232-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
232-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
232-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
232-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23

Table G-1 (Continued)

		·		4.55.040	
Building ' Number	Acreage	SQFT	Asbeatos Status	Asbestos	EBS Source of Evidence
					23
· 233-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	 ^	23
234-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	<u> </u>	
234-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
234-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	^ A	23
234-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
235-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	^_	23
235-C '	0.030291552	1320	Asbestos Present (Survey), No Remediation	^_	23
235-D	0.030291552	1320	Asbestos Present (Survey), No Remediation		23
236-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	<u> </u>	23
236-В	0.030291552	1320	Asbestos Present (Survey), No Remediation	^	23
236-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	<u> </u>	23
236-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	^	23
237-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	^_	23
237-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	. A	23
237-C	0.030291552	1320	Asbestos Present (Survey), No Remediation		23
238-A	0.030291552	1320	Asbestos Present (Survey), No Remediation		23
238-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	Α.	23
238-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	Α	23
238-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A .	23
239-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
239-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
239-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
240-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23 .
240-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
240-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
240-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
241-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
241-B	0.030291552	1320	Asbestos Present (Survey), No Remediation	A	23
241-C	0.030291552	- 1320	Asbestos Present (Survey), No Remediation	Α.	23
241-D	0.030291552	1320	Astestos Present (Survey), No Remediation	Α .	23
242-A	0.030291552	1320	Asbestos Present (Survey), No Remediation	1	22
242-B .	0.030291552	1320	Asbestos Present (Survey), No Remediation	1 A	. 23
242-C	0.030291552	1320	Asbestos Present (Survey), No Remediation	٨	23
242-D	0.030291552	1320	Asbestos Present (Survey), No Remediation	٨	23
243-A	0.033964646	1480	Asbestos Present (Survey), No Remediation	Α	. 23
243-B	0.033964646	1480	Asbestos Present (Survey), No Remediation	٨	· 23
243-C	0.033964646	1480	Asbestos Present (Survey), No Remediation	Α	23
243-D	0.033964646	1480	Asbestos Present (Survey), No Remediation	A	23
244-C	0.033964646	1480	Asbestos Present (Survey), No Remediation	A	23
245-A	0.033964646	1480	Asbestos Present (Survey), No Remediation	A	23
369/607	0.009917355	432	Asbestos Present (Survey), No Remediation	A	23
101	0.339118457	14772	Asbestos Presen (Survey), Partially Remediated	A	23 .
103	0.041322314	1800	Asbestos Present (Survey), Partially Remediated	A	23
103	0.223278237	9726	Asbestos Present (Survey), Partially Remediated	\ \ \ \ \	23
125	0.097796143	4260	Asbestos Present (Survey), Partially Remediated	A	23
323	1.595500459	69500	Asbestos Present (Survey), Partially Remediated	A	23
323	0.470615243		Asbestos Present (Survey), Parirally Remediated	A	23
609	0.015886134		Asbestos Present (Survey), Pariarly Remediated	^	22
	7.012000134	U72,	LYANGES & CONTROL ON LAND & STREET, MERITAGETER	1	23

Table G-1 (Continued)

Building		·		Asbestos	EBS Source of
Number	Acreage	SQ FT	Asbestos Status	Qualifier -	Evidence
702	0.022956841	1000	Asbestos Present (Survey), Partially Remediated	A	23
702	0.025252525	1100	Asbestos Present (Survey), Partially Remediated	٨	23
702	0.031703398	1381	Asbestos Present (Survey), Partially Remediated	A	23
702	0.037396694	1629	Asbestos Present (Survey), Partially Remediated	A	23
702	0.302295684	13168	Asbestos Present (Survey), Partially Remediated	A	23
729	0.106060606	4620	Asbestos Present (Survey), Partially Remediated	A	23
810	0.871740129	37973	Asbestos Present (Survey), Partially Remediated	A	23
812	0.245316804	10686	Asbestos Present (Survey), Partially Remediated	À	23
	0.012970615	565		A	23
. 2077			Asbestos Present (Survey), Partially Remediated		23
2084	0.125803489	5480	Asbestos Present (Survey), Partially Remediated	A .	
2104	0.029843893	1300	Asbestos Present (Survey), Partially Remediated	۸	23
2410	0.086019284	3747	Asbestos Present (Survey), Partially Remediated	Α	23
2411	0.058195592	2535	Asbestos Present (Survey), Partially Remediated	Λ	23
S142	0,235353535	10252	Asbestos Present (Survey), Partially Remediated	٨	23
T2458	0	?	Asbestos Present (Survey), Partially Remediated	A	23
1	0.005876951	256	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
137	0.004247016	185	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
145	0.012809917	558	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
307	0.045913682	2000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
320	0.374196511	16300	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
324	0.018916437	824	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
325	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
326	2.0661157021	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
327	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
328	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
329	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	. 22
330	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
331	2,066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
332	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
333	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
335	0.087855831	3827	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
339	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
340	2.066115702	90000	Asbestos Possible (Bulit Before 1985), No Remediation	A(P)	22
341	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
342	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	(P)	22
343	2.066115702		Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
345 346	2.066115702	90000	Asbestos Possible (Bullt Before 1985), No Remediation Asbestos Possible (Bullt Before 1985), No Remediation	A(P)	22
347	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
348 349	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	-A(P)	22
350	2.066115702	90000	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
356	4.663567493	203145	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
357	4.663567493	203145	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
360	0.023507805	1024	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
363	0.002203857	96	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
373	0.024150597	1052	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
823	0.001584022	- 69	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
1593	0.003305785	144	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2086	0.017493113	762	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2202	0.003305785	144	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2407	0.013682277	596	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22

Table G-1 (Continued)

Building ' Number	Acreage	SQFT			EBS Source o
2439	0.008126722	354	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2445	0.021120294	920	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2470	0.011478421	500	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2471	0.011478421	500	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2472	0.011478421	500	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2474	0.016528926	720	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2475	0.015151515	660	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2476	0.016528926	720	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2477	0.017630854	768	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2478	0.016528926	720	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
. 2480	0.015151515	660	Asbestos Possible (Built Before 1985), No Remediation	. A(P)	22
2481	0.016528926	720	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2482	0.017906336	780	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
2484	0.017630854	768	Asbestos Possible (Built Before 1985), No Remediation	A(P)	22
104	0.010606061	462	Asbestos Possible (Survey), No Remediation	A(P)	23
709	0.000344353	15	Asbestos Possible (Survey), No Remediation	A(P)	23
801	0,000344353	15	Asbestos Possible (Survey), No Remediation	A(P)	23
14		. 473	Asbestos Not Present (Built After 1984)	None	22
107		160	Asbestos Not Present (Built After 1984)	None	22
146		9000	Asbestos Not Present (Built After 1984)	None	22
147		4072	Asbestos Not Present (Built After 1984)	None	22
371		2245	Asbestos Not Present (Built After 1984)	None	22
372		5600	Asbestos Not Present (Built After 1984)	None	22
374		2100	Asbestos Not Present (Built After 1984)	None	22
375		216	Asbestos Not Present (Built After 1984)	None	22
376		6000	Asbestos Not Present (Built After 1984)	None	22
711		86	Asbestos Not Present (Built after 1984)	None	22
				None	22
753		35	Asbestos Not Present (Built After 1984)		22
754		138	Asbestos Not Present (Built After 1984)	None	22
755		900	Asbestos Not Present (Built After 1984)	None	
1594		3000	Asbestos Not Present (Built After 1984)	None	22
2109		1	Astesios Not Present (Buill After 1984)	None	22
2113		. 192	Ashestos Not Present (Buil: After 1984)	Mone	22
2114		800	Asbestos Not Present (Built After 1984)	None	22
2134		6000	Asbestos Not Present (Built After 1984)	None	22
2135		3600	Asbestos Not Present (Built After 1984)	None	22
2312		2401	Asbestos Not Present (Built After 1984)	None	22
2314		286	Asbestos Not Present (Built After 1984)	Nobe	22
2315		5100	Asbestos Not Present (Built After 1984)	None	22
2316		: ?	Asbestos Not Present (Built After 1984)	None	22
2491	 	1976	Asbestos Not Present (Built After 1984)	None	22
2492	 	1976	Asbestos Not Present (Built After 1984)	None	22
	 				22
2493		2096	Asbestos Not Present (Bullt After 1984)	None	
2494		1976	Asbestos Not Present (Built After 1984)	None	22
2495		1976	Asbestos Not Present (Built After 1984)	None	22
2496		2096	Asbestos Not Present (Built After 1984)	None	22
2497	· .	2096	Asbestos Not Present (Built After 1984)	None	22
2498	1	1976	Asbestos Not Present (Built After 1984)	None	22
2499 -		1976	Asbetos Not Present (Built After 1984)	Nonc	22
2500	12 m a	1976	Asbestos Not Present (Built After 1984)	None	22

Table G-1 (Continued)

Building . Number	Acreage	SQFT	Asbestos Status	Asbestos Qualifier	EBS Source of Evidence
2501		1976	Asbestos Not Present (Built After 1984)	None	22
2502		2096	Asbestos Not Present (Built After 1984)	None	22
2504		1976	Asbestos Not Present (Built After 1984)	None	22
2505		2380	Asbestos Not Present (Built After 1984)	None	22
2507	,	2288	Asbestos Not Present (Built After 1984)	None	22
2508		2380	Asbestos Not Present (Built After 1984)	None	22
2509		2288	Asbestos Not Present (Built After 1984)	None	22
2510		2380	Asbestos Not Present (Built After 1984)	None	22
2511		2288	Asbestos Not Present (Built After 1984)	None	22
2512		2288	Asbestos Not Present (Built After 1984)	None	22
2513		2288	Asbestos Not Present (Built After 1984)	None	22
2514		2288	Asbestos Not Present (Built After 1984)	None	22
2515		2288	Asbestos Not Present (Built After 1984)	None	22
2516		2380	Asbestos Not Present (Built After 1984)	None	22
2517		2380	Asbestos Not Present (Built After 1984)	None	22
2518		2380	Asbestos Not Present (Built After 1984)	None	22
2519	-	2288	Asbestos Not Present (Built After 1984)	None	22
2520		2380	Asbestos Not Present (Built' After 1984)	None	22
2521		2288	Asbestos Not Present (Built After 1984)	None	22
2523		2288	Asbestos Not Present (Built After 1984)	None	22
2524		980	Asbestos Not Present (Built After 1984)	None	22
2525		980	Asbestos Not Present (Built After 1984)	None	22
		100	Asbestos Not Present (Built After 1984)	None	22
110A				None	22
2479		924	Asbestos Not Present (Built After 1984)		
2483		924	Asbestos Not Present (Built After 1984)	None	22
2486		891	Asbestos Not Present (Built After 1984)	None	22
2487		891	Asbestos Not Present (Built After 1984)	None	
2488		891	Asbestos Not Present (Built After 1984)	None	22
2489		891	Asbestos Not Present (Built After 1984)	None	22
2490		891	Asbestos Not Present (Built After 1984)	None	22
2132		100	Asbestos Not Present (Igloo)	None	22
2133		100	Asbestos Not Present (Igloo)	None	22
A0101-102		2442	Asbestos Not Present (Igloo)	None	22
10201, 203, 205, 207, 209, 211,		21789	Asbestos Not Present (Igloo)	None	: 22 '
213, 215, 217					
10202, 204, 206,	1	16344	Asbestos Not Present (Igloo)	None	· · 22 · ·
208, 210, 212,					
214, 216, 218			· · · · · · · · · · · · · · · · · · ·		
10301, 303, 305,		16344	Asbestos Not Present (Igloo)	None	22
307, 309, 311, 313, 315, 317	<i>t</i>				V V
40302, 304, 306,		19368	Asbestos Not Present (Igloo)	None	22
308, 310, 312, 314, 316					
		, ,			
A0401-409	1 11	16344	Asbestos Not Present (Igloo)	None	22
A0501-508		14528	Asbestos Not Present (Igloo)	None	22
A0601-610		18160	Asbestos Not Present (Igloo)	None	22
A0702-711		19976	Asbestos Not Present (Igloo)	None	22
A0801-811		19976	Asbestos Not Present (Igloo)	None	22-

Table G-1 (Continued)

Building ' Number	Acreage	SQFT	Asbestos Status	Asbestos Qualifier	EBS Source of Evidence
A0901-910		18160	Asbestos Not Present (Igloo)	None	22
A1001-A1012		21792	Asbestos Not Present (Igloo)	None	22
A1101-A1111		19976	Asbestos Not Present (Igloo)	None	. 22
B0101-B0112		21792	Asbestos Not Present (Igloo)	None	22
B0201-B0211		19976	Asbestos Not Present (Igloo)	None	22
B0301-B0311		19976	Asbestos Not Present (Igloo)	None	22
B0401-B0411		19976	Asbestos Not Present (Igloo)	None	22 ·
B0501-B0511		19976	Asbestos Not Present (Igloo)	None	22
B0601-B0611		19976	Asbestos Not Present (Igloo)	None	22
B0701-B0711		19976	Asbestos Not Present (Igloo)	None	22
B0801-B0811		19976	Asbestos Not Present (Igloo)	None	22
B0901-B0911		19976	Asbestos Not Present (Igloo)	None	22
C0101-C0111		19976	Asbestos Not Present (Igloo)	None	22
C0201-C0211		19976	Asbestos Not Present (Igloo)	None	22
C0301-C0311	-	19976	Asbestos Not Present (Igloo)	None	22
C0401-C0412		21792	Asbestos Not Present (Igloo)	None	22
C0501-C0513		23608	Asbestos Not Present (Igloo)	None	22
C0601-C0611		19976	Asbestos Not Present (Igloo)	None	22
C0701-C0709		16344	Asbestos Not Present (Igloo)	None	22
C0801-C0809		16344	Asbestos Not Present (Igloo)	None	. 22
C0901-C0913		23608	Asbestos Not Present (Igloo)	None	22
D0101-D0113		23608	Asbestos Not Present (Igloo)	None	22
D0201-D0212		21792	Asbestos Not Present (Igloo)	None	22
D0301-D0313		23608	Asbestos Not Present (Igloo)	None	22
D0401-D013		23608	Asbestos Not Present (Igloo)	None	22
D0501-D0513		23608	Asbestos Not Present (Igloo)	None	22
D0601-D0612		21792	Asbestos Not Present (Igloo)	None	22
D0701-D0712		- 21792	Asbestos Not Present (Igloo)	None	22
D0801-D0812		21792	Asbestos Not Present (Igloo)	None	22
E0101-E0114		33726	Asbestos Not Present (Igloo)	None	22
E0201-E0214		33726	Asbestos Not Preser it (Igleo)	None	22
E0301-E0313		31317	Asbestos Not Present (Igloo)	None	22
E0401-E0413		31317	Asbestos Not Present (Igloo)	None	22
E0501-E0513		31317	Asbestos Not Present (Igloo)	None	22
E0601-E0611		26499	Asbestos Not Present (Igloo)	None	22
E0701-E0711	3	26499	Asbestos Not Present (Igloo)	None	22
E0801-E0811		26499	Asbestos Not Present (Igloo)	None	22
		540	Asbestos Not Present (Survey)	None	23
9		824		None	23
		824	Asbestos Not Present (Survey)	-	23.
103	· · · · · · ·		Asbestos Not Present (Survey)	None	23
102	-	428	Asbestos Not Present (Survey) Asbestos Not Present (Survey)	None	23
110		120		None	23
114		12065	Ashestos Not Present (Survey)	None	
116	· · ·	3634	Asbestos Not Present (Survey)	None	23
116		9388	Asbestos Not Present (Survey)	None	23
116		445	Asbestos Not Present (Survey)	None	23
118		18928	Asbestos Not Present (Survey)	None	23
		3205	Asbestos Not Present (Survey)	None	23

Table G-1 (Continued)

Building Number	umber Acreage SQ FT Asbeatos Status		Asbestos Status	Asbestos Qualifier	EBS Source o
126		3220	Asbestos Not Present (Survey)	None	23
128		120	Asbestos Not Present (Survey)	None	23
130		214	Asbestos Not Present (Survey)	None	23
131		2400	Asbestos Not Present (Survey)	None	23
136		960	Asbestos Not Present (Survey)	None	23
138		1500	Asbestos Not Present (Survey)	None	23
143 ·		36	Asbestos Not Present (Survey)	None	23
301		824	Asbestos Not Present (Survey)	None	23
304		824	Asbestos Not Present (Survey)	None	23
306		5413	Asbestos Not Present (Survey)	None	23
308		531	Asbestos Not Present (Survey)	None	23
310		840	Asbestos Not Present (Survey)	None	23
312		12000	Asbestos Not Present (Survey)	None	23
313		150	Asbestos Not Present (Survey)	None	23
314		439	Asbestos Not Present (Survey)	None	23
321		8400	Asbestos Not Present (Survey)	None	23
321		3600	Asbestos Not Present (Survey)	None	23
322		256	Asbestos Not Present (Survey)	None	23
367		3640	Asbestos Not Present (Survey)	None	23
608		350	Asbestos Not Present (Survey)	None	23
610		513	Asbestos Not Present (Survey)	None	23
611		400	Asbestos Not Present (Survey)	None	23
`S-714		7633	Asbestos Not Present (Survey)	None	23
716		144	Asbestos Not Present (Survey)	None	23
719		374	Asbestos Not Present (Survey)	None	23
721		177	Asbestos Not Present (Survey)	None	23
725		177	Asbestos Not Present (Survey)	None	23
726		967	Asbestos Not Present (Survey)	None	23
727		1320	Asbestos Not Present (Survey)	None	23
728		177	Asbestos Not Present (Survey)	None	23
731		6874	Asbestos Not Present (Survey)	None	23
733		530	Asbestos Not Present (Survey)	None	23
744		18079	Asbestos Not Present (Survey)	None	23
746		4239	Asbestos Not Present (Survey)	None	23
747		8700	Asbestos Not Present (Survey)	None	23
748	···	13675	Asbestos Not Present (Survey)	None	23
749		848	Asbestos Not Present (Survey)	None	23
750		2407	Asbestos Not Present (Survey)	-	23
751		5013	Asbestos Not Present (Survey)	None	23
752		6596	Asbestos Not Present (Survey)	None	23
802		5206	Asbestos Not Present (Survey)	None	23
803	```	2803	Asbestos Not Present (Survey)	None	23.
805		440	Asbestos Not Present (Survey)	None	23
809	-:	177	Asbestos Not Present (Survey)	None	23
813		4348	Asbestos Not Present (Survey)	None	23
824		3899	Asbestos Not Present (Survey)	None	23
825		4000	Asbestos Not Present (Survey)	Nóne	23
827		149	Asbestos Not Present (Survey)	None	23
1495		36	Asbestos Not Present (Survey)	None	23

Table G-1 (Continued)

Building : Number	Acreage	SQFT	Asbestos Status	Asbestos Qualifier	EBS Source o Evidence
2073	•	3683	Asbestos Not Present (Survey)	None	23
2075		120	Asbestos Not Present (Survey)	None	23
2105		21448	Asbestos Not Present (Survey)	None	23
2107		64	Asbestos Not Present (Survey)	None	23
2110		21448	Asbestos Not Present (Survey)	None	23
2126		824	Asbestos Not Present (Survey)	None	23
2129		824	Asbestos Not Present (Survey)	None	23
2131		230	Asbestos Not Present (Survey)	None	23
2200		824	Asbestos Not Present (Survey)	None	23
2204		824	Asbestos Not Present (Survey)	None	23
2301		1022	Asbestos Not Present (Survey)	None	23
2302		1022	Asbestos Not Present (Survey)	None	23
2304		2184	Asbestos Not Present (Survey)	None	23
2310		144	Asbestos Not Present (Survey)	None	23
2311		192	Asbestos Not Present (Survey)	None	23
2402 .		625	Asbestos Not Present (Survey)	None	23
2405		. 625	Asbestos Not Present (Survey)	None	23
2409		720	Asbestos Not Present (Survey)	None	23
2413		418	Asbestos Not Present (Survey)	None	23
2416		. 344	Asbestos Not Present (Survey)	None	23
2417		400	Asbestos Not Present (Survey)	None	23
2420		251	Asbestos Not Present (Survey)	None	23
2424	11/	600	Asbestos Not Present (Survey)	None	23
2428 - : '		333	Asbestos Not Present (Survey)	None	23
2430	,	289	Asbestos Not Present (Survey)	None	23
2431		339	Asbestos Not Present (Survey)	None	23
2433		400.	Asbestos Not Present (Survey)	None	23
2436		- 229	Asbestos Not Present (Survey)	None	23
2444		493	Asbestos Not Present (Survey)	None	23
2447		372	Asbestos Not Present (Survey)	·None	23
2449		502	Asbestos Not Present (Survey)	None	23
2451 .	400	- 580.	Asbestos Not Present (Survey)	None:	23
2454		264	Asbestos Not Present (Survey)	None	23
2455	1	80	Asbestos Not Present (Survey)	None	23
2456		800	Asbestos Not Present (Survey)	None	23
2473		780	Asbestos Not Present (Survey)	None	23
2485		1576	Asbestos Not Present (Survey)	None	23
S-361		1684	Asbestos Not Present (Survey)	None	23
T-370		200	Asbestos Not Present (Survey)	None	23
T355	-	4992	Asbestos Not Present (Survey)	None	23
5		11754	Asbestos Present (Survey), Fully Remediated		23
7		-		None	
115		11754	Asbestos Present (Survey), Fully Remediated Asbestos Present (Survey), Fully Remediated	None	23
		14154		None	
121		3250	Asbestos Present (Survey), Fully Remediated	None	23
127		6157	Asbestos Present (Survey), Fully Remediated	None	23
316		18615	Asbestos Present (Survey), Fully Remediated	None	23
317		26429	Asbestos Present (Survey), Fully Remediated	None	23
318		18615	Asbestos Present (Survey), Fully Remediated	None	23

Table G-1 (Continued)

Building ' Number	Acreage	SQFT	Asbestos Status	Asbestos Qualifier	EBS Source of Evidence
706		3705	Asbestos Present (Survey), Fully Remediated	Asbestos Present (Survey), Fully Remediated None	
707		11552	Asbestos Present (Survey), Fully Remediated	None	23
707		7372	Asbestos Present (Survey), Fully Remediated	None	23
710		3280	Asbestos Present (Survey), Fully Remediated	None	23
718		3224	Asbestos Present (Survey), Fully Remediated	None	23
722		4700	Asbestos Present (Survey), Fully Remediated	None	23
724		540	Asbestos Present (Survey), Fully Remediated	None	23
724		8460	Asbestos Present (Survey), Fully Remediated	None	23
732		3584	Asbestos Present (Survey), Fully Remediated	None	23
815		11072	Asbestos Present (Survey), Fully Remediated	. None	23
816		15373	Asbestos Present (Survey), Fully Remediated	None	23
2306		8774	Asbestos Present (Survey), Fully Remediated	None	23
212-A		1750	Asbestos Present (Survey), Fully Remediated		
212-B		1750	sbestos Present (Survey), Fully Remediated None		23
219-B		1750	sbestos Present (Survey), Fully Remediated None		23
224-B		1320	Asbestos Present (Survey), Fully Remediated	None	23
224-D		1320	Asbestos Present (Survey), Fully Remediated	None	23
225-A		1320	Asbestos Present (Survey), Fully Remediated	None	23
225-B		1320	Asbestos Present (Survey), Fully Remediated	None	23
229-B		1320	Asbestos Present (Survey), Fully Remediated	None	23 .
229-D		1320	Asbestos Present (Survey), Fully Remediated	None	23
230-A		1320	Asbestos Present (Survey), Fully Remediated	None	23.
231-B		1320	Asbestos Present (Survey), Fully Remediated	None	23
231-C		1320	Asbestos Present (Survey), Fully Remediated	None	- 23
233-A	:	1320	Asbestos Present (Survey), Fully Remediated	None	23
233-D		1320	Asbestos Present (Survey), Fully Remediated	None	- 23
235-A		1320	Asbestos Present (Survey), Fully Remediated	None	23
237-D		1320	Asbestos Present (Survey), Fully Remediated	None	23
239-A		1320	Asbestos Present (Survey), Fully Remediated	None	23
244-A		1480	Asbestos Present (Survey), Fully Remediated		
- 244-B		1480	Asbestos Present (Survey), Fully Remediated	None	23
244-D		1480	Asbestos Present (Survey), Fully Remediated	None	23
245-B	. :	1480	Asbestos Present (Survey), Fully Remediated	None.	23
245-C		1480	Asbestos Present (Survey), Fully Remediated	None	23
245-D		1480	Asbestos Present (Survey), Fully Remediated	None	23

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Table G-2
POTENTIAL LEAD-BASED PAINT HAZARDS AT SENECA ARMY DEPOT ACTIVITY

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
1	0.005877	· 256	L(P)	Built Prior To 1978	22
4	0.0123967	540	L(P)	Built Prior To 1978	22
5	0.2698347	11754	L(P)	Built Prior To 1978	22
6	0.0139348	607	L(P)	Built Prior To 1978	22
7	0.2698347	11754	L(P)	Built Prior To 1978	22
9	0.0189164	824	L(P)	Built Prior To 1978	22
12	0.0189164	824	L(P)	Built Prior To 1978	22
101	0.3391185	14772	L(P)	Built Prior To 1978	22
102	0.0098255	428	L(P)	Built Prior To 1978	22
103	0.0413223	1800	L(P)	Built Prior To 1978	22
103	0.2232782	9726	L(P)	Built Prior To 1978	22
104	0.0106061	462	L(P)	Built Prior To 1978	22
106	0.0165289	720	L(P)	Built Prior To 1978	22
106	0.2266988	9875	L(P)	Built Prior To 1978	. 22
106	0.0107438	468	L(P)	Built Prior To 1978	22
110	0.0027548	120	L(P)	Built Prior To 1978	22
113	0.3788797	16504	L(P)	Built Prior To 1978	22
114	0.2769743	12065	L(P)	Built Prior To 1978	22
115	0.3249311	14154	L(P)	Built Prior To 1978	22
116	0.0834252	3634	L(P)	Built Prior To 1978	22
116	0.2155188	9388	L(P)	Built Prior To 1978	22
116	0.0102158	445	L(P)	Built Prior To 1978	22
117	0.0169881	740	L(P)	Built Prior To 1978	22
117	0.4390955	19127	L(P)	Built Prior To 1978	22
118	0,4345271	18928	L(P)	Built Prior To 1978	22
119	0.0735767	3205	L(P)	Built Prior To 1978	22
120	0.0091827	400		Built Prior To 1978	22
			L(P)	Built Prior To 1978	22
121	0.0746097	3250	L(P)		22
122	0.2827824	12318	L(P)	Built Prior To 1978	22
123	0.0735767	3205	L(P)	Built Prior To 1978	22
124	0.0359734	1567	L(P)	Built Prior To 1978	22
125	0.0977961	4260	L(P)	Built Prior To 1978	
127	0.1413453	6157	L(P)	Built Prior To 1978	22
131	0.0550964	2400	L(P)	Built Prior To 1978	22
135	0.1151056	5014	L(P)	Built Prior To 1978	22
173	0.0008264	36	L(P)	Built Prior To 1978	22
145	0,0128099	558	L(P)	Built Prior To 1978	22
202	0.0414601	1806	L(P)	Built Prior To 1978	22
203	0.0459137	2000	L(P)	Built Prior To 1978	22
204	0.0489899	2134	L(P)	Built Prior To 1978	22
205	0.0459137	2000	L(P)	Built Prior To 1978	22
206	0.0459137	2000	L(P)	Built Prior To 1978	22
207	0.0459137	2000	L(P)	Built Prior To 1978	22
214	0.0435262	1896	L(P)	Built Prior To 1978	22
215	0.0414601	1806	L(P)	Built Prior To 1978	22
216	0.0414601	1806	L(P)	Built Prior To 1978	22
217	0.0459137	2000	L(P)	Built Prior To 1978	22
301	0.0189164	824	L(P)	Built Prior To 1978	22
304	0.0189164	824	L(P)	Built Prior To 1978	22
306	0.1242654	5413	L(P)	Built Prior To 1978	22

Table G-2 (Continued)

Building Number	Acreage	. SQ FT	Designation	Comment	EBS Source of Evidence
308	0.0121901	531	L(P)	Built Prior To 1978	22
309	0.1891873	8241	L(P)	Built Prior To 1978	22
310	0,0192837	840	L(P)	Built Prior To 1978	22
311	0.2669421	11628	L(P)	Built Prior To 1978	22
312	0.2754821	12000	L(P)	Built Prior To 1978	22
313	0.0034435	150	L(P)	Built Prior To 1978	22
314	0.0100781	439	L(P)	Built Prior To 1978	22
. 316	0.4273416	18615	L(P)	Built Prior To 1978	22
317	0.6067264	26429	L(P)	Built Prior To 1978	22
318	0.4273416	18615	L(P)	Built Prior To 1978	22
319	0.0658402	2868	L(P)	Built Prior To 1978	22
320	0.3741965	16300	L(P)	Built Prior To 1978	22
321	0.1928375	8400	L(P)	Built Prior To 1978	22
321	0.0826446	3600	L(P)	Built Prior To 1978	22
322	0,005877	256	L(P)	Built Prior To 1978	22
323	1,5955005	69500	L(P)	Built Prior To 1978	22
323	0,4706152	20500	L(P)	Built Prior To 1978	22
324	0.0189164	824	L(P)	Built Prior To 1978	22
325	2.0661157	90000	L(P)	Built Prior To 1978	22
326	2.0661157	90000	L(P)	Built Prior To 1978	22
327	2.0661157	90000	L(P)	Built Prior To 1978	22
328	2.0661157	90000	L(P)	Built Prior To 1978	22
329	2.0661157	90000	L(P)	Built Prior To 1978	22
330	2.0661157	90000	L(P)	Built Prior To 1978	22
331	2.0661157	90000	L(P)	Built Prior To 1978	22
332	2.0661157	90000	L(P)	Built Prior To 1978	22
333	2.0661157	90000	L(P)	Built Prior To 1978	22
334	0.6887052	30000		Built Prior To 1978	22
334	0.0360652	1571	L(P)	Built Prior To 1978	22
335	0.0300032	3827	L(P)		22
			L(P)	Built Prior To 1978	22
339	2.0661157	90000		Built Prior To 1978	
340	2.0661157	90000	-	Built Prior To 1978	- 22
,341	2.0661157	90000	L(P)		22
	2.0661157	90000	L(P)	Built Prior To 1978	22
343	2.0661157	90000		Built Prior To 1978	
345	2.0661157	90000		Built Prior To 1978	22
. 346	2.0661157	90000		Built Prior To 1978	22
347	2.0661157	90000		Built Prior To 1978	22
348	2.0661157	90000		Built Prior To 1978	22
349	2.0661157	90000		Built Prior To 1978	22
350	2.0661157	90000		Built Prior To 1978	22
353	0.0376951	1642		Built Prior To 1978	22
356	4.6635675	203145		Built Prior To 1978	22
357	4.6635675	203145		Built Prior To 1978	22
359	0.0034435	150		Built Prior To 1978	22
363	0.0022039	96	L(P)	Built Prior To 1978	22
366	0.021809	950		Built Prior To 1978	22
367	0.0835629	3640'	L(P)	Built Prior To 1978	22
373	0.0241506	1052	L(P)	Built Prior To 1978	22
606	0.0783747	3414	L(P)	Built Prior To 1978	22

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
608	0.0080349	350	L(P)	Built Prior To 1978	22 ***
609	0.0158861	692	L(P)	Built Prior To 1978	22
610	0.0117769	513	L(P)	Built Prior To 1978	22
611	0.0091827	400	L(P)	Built Prior To 1978	22
612	0.4222452	18393	L(P)	Built Prior To 1978	22
701	0.3278237	14280	L(P)	Built Prior To 1978	22
702	0.0229568	1000	L(P)	Built Prior To 1978	22
. 702	0.0252525	1100	L(P)	Built Prior To 1978	22
702	0.0317034	1381	L(P)	Built Prior To 1978	22
702	0.0373967	1629	L(P)	Built Prior To 1978	22
702	0.3022957	13168	L(P)	Built Prior To 1978	. 22
704	0.7142332	31112	L(P)	Built Prior To 1978	22
705A	0.0882231	3843	L(P)	Built Prior To 1978	22
705	0.1835629	7996	L(P)	Built Prior To 1978	. 22
706	0.0850551	3705	L(P)	Built Prior To 1978	22
707	0.2651974	11552	L(P)	Built Prior To 1978	22
707	0.1692378	7372	L(P)	Built Prior To 1978	22
708	0.7142332	31112	L(P)	Built Prior To 1978	22
709	0.0003444	15	L(P)	Built Prior To 1978	22
710	0.0752984	3280	L(P)	Built Prior To 1978	22
711	0.0019743	86	L(P)	Built Prior To 1978	22
S-714	0.1752296	7633	L(P)	Built Prior To 1978	22
715	0.1100092	4792	L(P)	Built Prior To 1978	22
716	0.0033058	144	L(P)	Built Prior To 1978	22
718	0.0740129	3224		Built Prior To 1978	22
		374	L(P)	Built Prior To 1978	22
719 720	0.0085859	4282	L(P)	Built Prior To 1978	22
	0.0983012		L(P)		22
721	0.0040634	177	L(P)	Built Prior To 1978	22
722	0.1078972	4700	L(P)	Built Prior To 1978	
723	0.3950643	17209	L(P)	Built Prior To 1978	22
723	0.1369835	5967	L(P)	Built Prior To 1978	22
724	0.0123967	540	L(P)	Built Prior To 1978	22
724	0.1942149	8460	L(P)	Built Prior To 1978	22
725	0.0040634	177	L(P)	Built Prior To 1978	22
726	0.0221993	967	L(P)	Built Prior To 1978	22
727	0.030303	1320	L(P)	Built Prior To 1978	22
728	0.0040634	177	L(P)	Built Prior To 1978	22
729	0.1060606	4620	L(P)	Built Prior To 1978	22
731	0.1578053	6874	L(P)	Built Prior To 1978	22
732	0.0822773	3584	L(P)	Built Prior To 1978	. 22
733	0.0121671	530	L(P)	Built Prior To 1978	22
740	0.0478421	2084	L(P)	Built Prior To 1978	22
740	0.0554178	2414	L(P)	Built Prior To 1978	· 22
742	0.0319559	1392	L(P)	Built Prior To 1978	· c 22
743	0.0114784	500	L(P)	Built Prior To 1978	22
801	0.0003444	15	L(P)	Built Prior To 1978	22
802	0.1195133	5206	L(P)	Built Prior To 1978	22
803	0.064348	2803	L(P)	Built Prior To 1978	22
804	0.0306244	1334	L(P)	Built Prior To 1978	22
805	0.010101	440	L(P)	Built Prior To 1978	22

Table G-2 (Continued)

Building Number	Acreage	SQ FT	Designation	Comment	EBS Source of Evidence
806	0.0918274	4000	L(P)	Built Prior To 1978	22
807	0.0918274	4000	L(P)	Built Prior To 1978	22
809	0.0040634	177	L(P)	Built Prior To 1978	22
810	0.8717401	37973	L(P)	Built Prior To 1978	22
812	0.2453168	10686	L(P)	Built Prior To 1978	22
813	0.0998163	4348	L(P)	Built Prior To 1978	22
. 814	0.0822314	3582	L(P)	Built Prior To 1978	22
815	0.2541781	11072	L(P)	Built Prior To 1978	22
816	0.3529155	15373	L(P)	Built Prior To 1978	22
817	0.0216713	944	L(P)	Built Prior To 1978	22
819	0.1897842	8267	L(P)	Built Prior To 1978	. 22
823	0.001584	69	L(P)	Built Prior To 1978	22
824	0.0895087	3899	L(P)	Built Prior To 1978	22
825	0.0918274	4000	L(P)	Built Prior To 1978	· 22
1495	0.0008264	36	L(P)	Built Prior To 1978	22
1593	0.0033058	144	L(P)	Built Prior To 1978	22
2073	0,08455	3683	L(P)	Built Prior To 1978	22
2074	0.0036272	158	L(P)	Built Prior To 1978	22
2075	0.0027548	120	L(P)	Built Prior To 1978	22
2076	0,1248852	5440	L(P)	Built Prior To 1978	22
2077	0.0129706	565	L(P)	Built Prior To 1978	22
2078	0.1720386	7494	L(P)	Built Prior To 1978	22
2079	0.0442149	1926	L(P)	Built Prior To 1978	22
2084	0,1258035	5480	L(P)	Built Prior To 1978	22
2085	0.0376951	1642	L(P)	Built Prior To 1978	22
2086	0.0174931	762	L(P)	Built Prior To 1978	22
2104	0.0298439	1300	L(P)	Built Prior To 1978	22
2105	0,4923783	21448	L(P)	Built Prior To 1978	22
2106	0.0134298	585	L(P)	Built Prior To 1978	22
2107	0.0014692	64	L(P)	Built Prior To 1978	22
2110	0.4923783	21448	L(P)	Built Prior To 1978	22
2113	0.0044077	192	L(P)	Built Prior To 1978	22
2117	0.2593205	11296	L(P)	Built Prior To 1978	22
2118	0.2593205	11296	L(P)	Built Prior To 1978	22
2119	0.2593205	11296	L(P)	Built Prior To 1978	22
2120	0.2593205	11296	L(P)	Built Prior To 1978	22
2121	0.2593205	11296	L(P)	Built Prior To 1978	22
2122	0.2593205	11296	L(P)	Built Prior To 1978	22
2123	0.2593205	11296	L(P)	Built Prior To 1978	22
2124	0.2593205	11296		Built Prior To 1978	22
2126	0.0189164	/·: 824	L(P)	Built Prior To 1978	22
2129	0.0189164	824	L(P)	Built Prior To 1978	22
2131	0.0052801	230		- 4 - 4 - 4	22
2200	0.0189164		L(P)		
2202		824 144	L(P)	Built Prior To 1978 Built Prior To 1978	22
	0.0033058		L(P)		
2204	0.0189164	824	L(P)	Built Prior To 1978	22
2207	0.0818411	3565	L(P)	Built Prior To 1978	22
2301	0.0234619	1022	L(P)	Built Prior To 1978	22
2302	0.0234619	1022	L(P)	Built Prior To 1978	22

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
2305	0.1283058	5589	L(P)	Built Prior To 1978	22
2306	0.2014233	8774	L(P)	Built Prior To 1978	22
2401	0.0619835	2700	L(P)	Built Prior To 1978	22
2402	0.014348	625	L(P)	Built Prior To 1978	22
2403	0.0423783	1846	L(P)	Built Prior To 1978	22
2404	0.0501377	2184	L(P)	Built Prior To 1978	22
2405	0.014348	625	L(P)	Built Prior To 1978	22
2406	0.0505969	2204	L(P)	Built Prior To 1978	22
2407	0.0136823	596	L(P)	Built Prior To 1978	22
2408	0.0941919	4103	L(P)	Built Prior To 1978	22
2409	0,0165289	720	L(P)	Built Prior To 1978	. 22
2410	0.0860193	3747	L(P)	Built Prior To 1978	22
2411	0.0581956	2535	L(P)	Built Prior To 1978	22
2412	0,0244949	1067	L(P)	Built Prior To 1978	· 22
2413	0.009596	418	L(P)	Built Prior To 1978	22
2414	0.0451791	1968	L(P)	Built Prior To 1978	22
2415	0.0238522	1039	L(P)	Built Prior To 1978	22
2416	0.0078972	344	L(P)	Built Prior To 1978	22
2417	0.0091827	400	L(P)	Built Prior To 1978	22
2418	0.0179063	780	L(P)	Built Prior To 1978	22
2419	0.0298898	1302	L(P)	Built Prior To 1978	22
2420	0.0057622	251	L(P)	Built Prior To 1978	22
2421	0,040427	1761	L(P)	Built Prior To 1978	22
2423	0.0303719	1323	L(P)	Built Prior To 1978	22
2424	0.0137741	600	L(P)	Built Prior To 1978	22
2425	0.0279614	1218	L(P)	Built Prior To 1978	22
2426	0.0222222	968	L(P)	Built Prior To 1978	22
2427	0.0210055	915	L(P)	Built Prior To 1978	22
2428	0.0076446	333	L(P)	Built Prior To 1978	22
2429	0.023416	1020	L(P)	Built Prior To 1978	22
2430	0.0066345	289	L(P)	Built Prior To 1978	22
2431	0.0077824	339	L(P)	Built Prior To 1978	22
2432	0.0342057	1490	L(P)	Built Prior To 1978	22
2433	0.0091827	400	L(P)	Built Prior To 1978	22
2436	0.0052571	229	L(P)	Built Prior To 1978	22
2437	0.0416667	1815	L(P)	Built Prior To 1978	22
2438	0.0266299	1160	L(P)	Built Prior To 1978	22
2439	0.0081267	354		Built Prior To 1978	22
2441	0.0235537	1026	L(P)	Built Prior To 1978	22
2443	0.0284206	1238	L(P)	Built Prior To 1978	22
2444	0.0113177	493	L(P)	Built Prior To 1978	22
2446	0.0265381	1156		Built Prior To 1978	22
2447			L(P)	Built Prior To 1978	
	0.0085399	372	L(P)		22
2448	0.0290634	1266	L(P)	Built Prior To 1978	22
2449	0.0115243	502	L(P)	Built Prior To 1978	
2450	0.0235537	1026	L(P)	Built Prior To 1978	22
2451	0.013315	580	L(P)	Built Prior To 1978	
2452	0.0267677	1166	L(P)	Built Prior To 1978	22
2453	0.0306015	1333	L(P)	Built Prior To 1978	1 1 22

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
2456	0.0183655	800	L(P)	Built Prior To 1978	22
2466	0.0073003	318	L(P)	Built Prior To 1978	22
2473	0.0179063	780	L(P)	Built Prior To 1978	22
200-A	0.0350321	1526	L(P)	Built Prior To 1978	22
200-B	0,0350321	1526	L(P)	Built Prior To 1978	22
201-A	0.0350321	1526	L(P)	Built Prior To 1978	22
201-B	0.0350321	1526	L(P)	Built Prior To 1978	22
208-A	0,0587351	2559	L(P)	Built Prior To 1978	22
208-B	0.0587351	2559	L(P)	Built Prior To 1978	22
209-A	0.0587351	2559	L(P)	Built Prior To 1978	22
209-B	0.0587351	2559	L(P)	Built Prior To 1978	22
210-A	0,0401745	1750	L(P)	Built Prior To 1978	22
210-B	0.0401745	1750	L(P)	Built Prior To 1978	22
211-A	0.0367309	1600	L(P)	Built Prior To 1978	22
211-B	0.0367309	1600	L(P)	Built Prior To 1978	22
212-A	0.0401745	1750	L(P)	Built Prior To 1978	22
	0.0401745	1750		Built Prior To 1978	22
212-B			L(P)		22
213-A	0.0367309	1600	L(P)	Built Prior To 1978	
213-B	0.0367309	1600	L(P)	Built Prior To 1978	22
218-A	0.0367309	1600	L(P)	Built Prior To 1978	22
218-B	0.0367309	1600	L(P)	Built Prior To 1978	22
219-A	0.0401745	1750	L(P)	Built Prior To 1978	22
219-B	0.0401745	1750	L(P)	Built Prior To 1978	22
221-A	0.0367309	1600	L(P)	Built Prior To 1978	22
221-B	0.0367309	1600	L(P)	Built Prior To 1978	22
222-A	0.0401745	1750	L(P)	Built Prior To 1978	22
222-B	0.0401745	1750	L(P)	Built Prior To 1978	22
223-A	0,0367309	1600	L(P)	Built Prior To 1978	22
223-B	0.0367309	1600	L(P)	Built Prior To 1978	22
224-A	0.0302916	1320	L(P)	Built Prior To 1978	22
224-B	0.0302916	1320	L(P)	Built Prior To 1978	22
224-C	0.0302916	1320	L(P)	Built Prior To 1978	22
224-D	0.0302916	1320	L(P)	Built Prior To 1978	22
225-A	0.0302916	1320	L(P)	Built Prior To 1978	22
225-B	0.0302916	1320	L(P)	Built Prior To 1978	22
225-C -	0.0302916	1320	L(P)	Built Prior To 1978	22
225-D	0.0302916	1320	· L(P)	Built Prior To 1978	22
226-A	0.0302916	1320	L(P) '	Built Prior To 1978	22
226-B	0.0302916	1320	L(P)	Built Prior To 1978	22
226-C	0.0302916	- 1320	L(P)	Built Prior To 1978	22
226-D	0.0302916	1320	L(P)	Built Prior To 1978	22
227-A	0.0302916	1320		Built Prior To 1978	22
227-В	0.0302916	1320	L(P)	Built Prior To 1978	22
227-C	0.0302916	1320	L(P)	Built Prior To 1978	22
227-D	0.0302916	1320	L(P)	Built Prior To 1978	22
228-A	0.0302916	. 1320	L(P)	Built Prior To 1978	22
228-B	0.0302916	1320	L(P)	Built Prior To 1978	22
228-C	0.0302916	1320	L(P)	Built Prior To 1978	22
228-D	0.0302916	1320	L(P)	Built Prior To 1978	22
229-A	0.0302916	1320	L(P)	Built Prior To 1978	22

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
229-B	0.0302916	1320	L(P)	Built Prior To 1978	22
229-C	0.0302916	1320	L(P)	Built Prior To 1978	22
229-D	0.0302916	1320	L(P)	Built Prior To 1978	22
230-A	0.0302916	1320	L(P)	Built Prior To 1978	22
230-B	0.0302916	1320	L(P)	Built Prior To 1978	22
230-C	0.0302916	1320	L(P)	Built Prior To 1978	22
230-D	0.0302916	1320	L(P)	Built Prior To 1978	22
231-A	0.0302916	. 1320	L(P)	Built Prior To 1978	22
231-B	0.0302916	1320	L(P)	Built Prior To 1978	22
231-C	0.0302916	1320	L(P)	Built Prior To 1978	22
231-D	0.0302916	1320	L(P)	Built Prior To 1978	'22
232-A	0.0302916	1320	L(P)	Built Prior To 1978	22
232-B	0.0302916	1320	L(P)	Built Prior To 1978	22
232-C	0.0302916	1320	L(P)	Built Prior To 1978	22
232-D	0.0302916	1320	L(P)	Built Prior To 1978	22
233-A	0,0302916	1320	L(P)	Built Prior To 1978	22
233-В	0.0302916	1320	L(P)	Built Prior To 1978	22
233-C	0.0302916	1320	L(P)	Built Prior To 1978	22
233-D	0.0302916	1320	L(P)	Built Prior To 1978	.22
234-A	0.0302916	1320	L(P)	Built Prior To 1978	22
234-B	0.0302916	1320	L(P)	Built Prior To 1978	22
234-C	0.0302916	1320	L(P)	Built Prior To 1978	22
234-D	0.0302916	1320	L(P)	Built Prior To 1978	22
235-A	0.0302916	1320	L(P)	Built Prior To 1978	22
235-B	0.0302916	1320	L(P)	Built Prior To 1978	22
235-C	0.0302916	1320	L(P)	Built Prior To 1978	22
235-D	0.0302916	1320	L(P)	Built Prior To 1978	22
236-A	0.0302916	1320	L(P)	Built Prior To 1978	22
236-B	0.0302916	1320	L(P)	Built Prior To 1978	22
236-C	0.0302916	. 1320	L(P)	Built Prior To 1978	22
236-D	0.0302916	1320	L(P)	Built Prior To 1978	22
237-A	0.0302916	1320	L(P)	Built Prior To 1978	22
237-B	0.0302916	1320	L(P)	Built Prior To 1978	22
237-C	0.0302916	1320	L(P)	Built Prior To 1978	22
237-D	0,0302916	1320	L(P)	Built Prior To 1978	22
238-A	0.0302916	1320	L(P)	Built Prior To 1978	22
238-B	0.0302916	1320	. L(P)	Built Prior To 1978	22
238-C	0.0302916	1320	L(P)	Built Prior To 1978	22
238-D	0.0302916	1320	L(P)	Built Prior To 1978	22
239-A	0.0302916	1320	(°L(P)	Built Prior To 1978	22
239-B	0.0302916	1320	L(P)	Built Prior To 1978	22
239-C	0.0302916	1320	(L(P)	Built Prior To 1978	22
239-D	0.0302916	1320		Built Prior To 1978	22
			L(P)		
240-A	0.0302916	1320	L(P)	Built Prior To 1978	22
240-B	0.0302916	1320	, 'L(P)	Built Prior To 1978	22
240-C	0.0302916	1320	L(P)	Built Prior To 1978	22
240-0	0.0302916	1320	L(P)	Built Prior To 1978	22
241-A	0.0302916	1320	L(P)	Built Prior To 1978	22
241-B	0.0302916	1320	' L(P)	Built Prior To 1978	22

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source Evidence
241-D	0.0302916	1320	L(P)	Built Prior To 1978	22
242-A	0.0302916	1320	L(P)	Built Prior To 1978	22
242-B	0.0302916	1320	L(P)	Built Prior To 1978	22
242-C	0.0302916	1320	L(P)	Built Prior To 1978	22
242-D	0.0302916	1320	L(P)	Built Prior To 1978	22
243-A	0.0339646	1480	L(P)	Built Prior To 1978	22
243-B	0.0339646	1480	L(P)	Built Prior To 1978	22
243-C	0.0339646	1480	L(P)	Built Prior To 1978	22
243-D	0.0339646	1480	L(P)	Built Prior To 1978	22
244-A	0.0339646	1480	L(P)	Built Prior To 1978	22
244-B	0.0339646	1480	L(P)	Built Prior To 1978	22
244-C	0.0339646	1480	L(P)	Built Prior To 1978	22
" 244-D	0.0339646	1480	· L(P)	Built Prior To 1978	22
245-A	0.0339646	1480	L(P)	Built Prior To 1978	. 22
245-B	0.0339646	1480	L(P)	Built Prior To 1978	22
245-C	0.0339646	1480	L(P)	Built Prior To 1978	22
245-D	0.0339646	1480	. L(P)	Built Prior To 1978	22
2470	0.0114784	500	··. L(P)	Built Prior To 1978	22
2471	0.0114784	500	L(P)	Built Prior To 1978	22
2472	0.0114784	500	L(P)	Built Prior To 1978	22
2474	0.0165289	720	L(P)	Built Prior To 1978	22
2475	0.0151515	660	L(P)	Built Prior To 1978	22
2476	0.0165289	720	L(P)	Built Prior To 1978	22
2477	0,0176309	768	L(P)	Built Prior To 1978	22
2478	0.0165289	720	L(P)	Built Prior To 1978	22
2480 -	0,0151515	660	L(P)	Built Prior To 1978	22
2481	0.0165289	720	L(P)	Built Prior To 1978	22
2482	0.0179063	780	L(P)	Built Prior To 1978	22
2484	0.0176309	768	L(P)	Built Prior To 1978	22
369/607	0.0099174	432	L(P)	Built Prior To 1978	22
S-361	0.0386593	1684		Built Prior To 1978	22
S142	0.2353535	10252	L(P)	Built Prior To 1978	22
T-370		200	L(P)		22
	0.0045914	-	L(P)	Built Prior To 1978	
T355	0.1146006	4992 60	L(P)	Built Prior To 1978 Construction Date Unknown,	. 22
		. 00		Default Assumption Is Lead-	
		,		Based Paint Possible	
749	0.0194674	848	L(P)	Construction Date Unknown, Default Assumption is Lead- Based Paint Possible	23
2434	0.0033058	144	L(P)	Construction Date Unknown, Default Assumption Is Lead- Based Paint Possible	23
T2458	0	?	L(P)	Construction Date Unknown, Default Assumption Is Lead- Based Paint Possible	23
14 '		473	None	Built After 1977	22
107	~	160	None	Built After 1977	22
126	-	3220	None	Built After 1977	22
: 128	Sec. 11. (c.)	120	. None	Built After 1977	. 22
. 130		214	None	Built After 1977	22 -

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
136		960	None	Built After 1977	22
137		185	None	Built After 1977	22
138		1500	None	Built After 1977	22
146		9000	None	Built After 1977	22
147		4072	None	Built After 1977	22
307		2000	None	Built After 1977	22
360		8660	None	Built After 1977	22
360		1024	None	Built After 1977	22
371		2245	None	Built After 1977	22
~ 372		5600	None	Built After 1977	22
374	1	2100	None	Built After 1977	22
375	 	216	None	Built After 1977	22
376		6000	None	Built After 1977	22
703		40572	None	Built After 1977	. 22
744		18079	None	Built After 1977	22
746		4239	None	Built After 1977	22
. 747		8700	None	Built After 1977	22
748		13675	None	Built After 1977	22~
750		2407	None	Built After 1977	22
751		5013	None	Built After 1977	22
752	-	6596	None	Built After 1977	22
		35	None	Built After 1977	22
753					22
754		138	None	Built After 1977	22
755		900	None	Built After 1977	22
800		1272	None	Built After 1977	
827		149	None	Built After 1977	22
1594		3000	None	Dailet Citor 1711	22
2109		7	None	Built After 1977	22
2114		800	None	Built After 1977	22
2134		6000	None	Built After 1977	22
2135		3600	None	Built After 1977	22
2310		144	None	Built After 1977	22
2311		192	None	Built After 1977	: 22
2312		2401	None	Built After 1977	22
2314		286	None	Built After 1977	22
2315		5100 -	None	Built After 1977	22
2316		?	None	Built After 1977	22
2445	. 1:	920	None	Built After 1977	22
2455	-	80	None	Built After 1977	, 22
2485		1576	None .	Built After 1977	22
2491		1976	None	Built After 1977.	. 22
2492		1976	None	Built After 1977	22
2493		2096 -	None	Built After 1977	22
2494		1976	None	Built After 1977	22
2495		1976	None	Built After 1977	22
2496		2096	None	Built After 1977	22
2497		2096	None	Built After 1977	22
2498		1976	Моле	Built After 1977	22
2499		1976	None	Built After 1977	22
2500	1	1976	None	Built After 1977	22

Table G-2 (Continued)

Building Number	Acreage	SQ FT	Designation	Comment	EBS Source o
2501		1976	None	Built After 1977	22
2502		2096	None	Built After 1977	22
2504		1976	None	Built After 1977	22
2505		2380	None	Built After 1977	22
2507		2288	None	Built After 1977	22
2508		2380	None	Built After 1977	22
2509		2288	None	Built After 1977	22
2510		2380	None	Built After 1977	22
2511		2288	None	Built After 1977	22
2512		2288	None	Built After 1977	22
2513		2288	None	Built After 1977	. 22
2514		2288	None	Built After 1977	22
2515		2288	None	Built After 1977	22
2516		2380	None	Built After 1977	· 22
2517		2380	None	Built After 1977	22
2518		2380	None	Built After 1977	22
2519		2288	None	Built After 1977	22
2520		2380	None	Built After 1977	22
2521		2288	None *	Built After 1977	22
2523		2288	None	Built After 1977	22
2524		980	None	Built After 1977	22
2525		980	None	Built After 1977	22
IIOA		100	None	Built After 1977	22
2479		924	None	Built After 1977	22
2483		924	None	Built After 1977	22
2486		891	None	Built After 1977	. 22
2487		891	None	Built After 1977	22
2488		891	None	Built After 1977	22
2489		891	None	Built After 1977	22
2490		891	None	Built After 1977	22
2132		100	None	Igloo, Not Painted	22
2133		100	None	igloo, Not Painted	22
A0101-102		2442	None	Igloo, Not Painted	22
0201, 203, 205, 207,	-	21789	None	Igloo, Not Painted	22
09, 211, 213, 215, 217					Ĭ
0202, 204, 206, 208,		16344	None	Igloo, Not Painted	22
10, 212, 214, 216, 218		16244	Name	folia Mac Dalmad	- 22
(0301, 303, 305, 307, 1 09, 311, 313, 315, 317		16344	None	Igloo, Not Painted	22
0302, 304, 306, 308,		19368	None	Igloo, Not Painted	22
310, 312, 314, 316			0.000		
A0401-409		16344	None	Igloo, Not Painted	22
A0501-508		14528	None	Igloo, Not Painted	22
A0601-610		18160	None	Igloo, Not Painted	22
A0702-711		19976	None	Igloo, Not Painted	22
A0801-811		19976	None	Igloo, Not Painted	22
A0901-910		18160	None	Igloo, Not Painted	22
A1001-A1012		21792	None	Igloo, Not Painted	22
A1101-A1111		19976	None	Igloo, Not Painted	22
B0101-B0112		21792	None	Igloo, Not Painted	22

Table G-2 (Continued)

Building Number	Acreage	SQFT	Designation	Comment	EBS Source of Evidence
B0301-B0311		19976	None	Igloo, Not Painted	22
B0401-B0411		19976	None	Igloo, Not Painted	22
B0501-B0511 '		19976	None	Igloo, Not Painted	22
B0601-B0611		19976	None	Igloo, Not Painted	22
B0701-B0711		19976	None	Igloo, Not Painted	22
B0801-B0811		19976	None	Igloo, Not Painted	22
B0901-B0911		19976	None	Igloo, Not Painted	22
C0101-C0111		19976	None	Igloo, Not Painted	22
C0201-C0211		19976	None	Igloo, Not Painted	22
C0301-C0311		19976"	None	Igloo, Not Painted	22
C0401-C0412		21792	None	Igloo, Not Painted	· 22
C0501-C0513		23608	None	Igloo, Not Painted	22
C0601-C0611		19976	None	Igloo, Not Painted	22
C0701-C0709		16344	None	Igloo, Not Painted	22
C0801-C0809	1	16344	None	Igloo, Not Painted	22
C0901-C0913		23608	None	Igloo, Not Painted	22
D0101-D0113		23608	None	Igloo, Not Painted	22
D0201-D0212		21792	None	Igloo, Not Painted	22
D0301-D0313		23608	None	Igloo, Not Painted	22
D0401-D013		23608	None	Igloo, Not Painted	22
D0501-D0513		23608	None	Igloo, Not Painted	22
D0601-D0612		21792	None	Igloo, Not Painted	22
D0701-D0712		21792	None	Igloo, Not Painted	22
D0801-D0812		21792	None	Igloo, Not Painted	22
E0101-E0114		33726	None	Igloo, Not Painted	22
E0201-E0214		33726	None	Igloo, Not Painted	22
E0301-E0313		31317	None	Igloo, Not Painted	22
E0401-E0413		31317	None	Igloo, Not Painted	22
E0501-E0513		31317	None	Igloo, Not Painted	22
E0601-E0611		26499	None	Igloo, Not Painted	22
E0701-E0711		26499	None	Igloo, Not Painted	22
E0801-E0811		26499	None	Igloo, Not Painted	22

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Table G-3
POTENTIAL RADON HAZARDS AT SENECA ARMY DEPOT ACTIVITY

Building		1	Radon	Radon		
Number	Acreage	SQFT	Measurements	Levels	Designation	Comment
115	0.324931	14,154	8 locations	5.5-7.3	R	Radon 4.0 or higher
2516	0.054637	2380	2 locations	2.9-4,0	R	Radon 4.0 or higher
4			I location		None	Radon less than 4.0
5			1 location		None	Radon less than 4.0
6			1 location		None	Radon less than 4.0
101			8 locations		None	Radon less than 4.0
103			6 locations	1.3-2.4	None	Radon less than 4.0
104			1 location	2	None	Radon less than 4.0
106			5 locations	1.3-1.9	None	Radon less than 4.0
113			8 locations		None	Radon less than 4.0
114			6 locations		None	Radon less than 4.0
116			8 locations		None	Radon less than 4.0
117			4 locations		None	Radon less than 4.0
118			6 locations		None	Radon less than 4.0
119			2 locations		None	Radon less than 4.0
120			1 location		None	Radon less than 4.0
122			4 locations		None	Radon less than 4.0
123			2 locations		None	Radon less than 4.0
125			3 locations		None	Radon less than 4.0
126			2 locations	1.5-2.0	None	Radon less than 4.0
202			1 location	2.4	None	Radon less than 4.0
203			1 location	3.1	None	Radon less than 4.0
204			1 location	1.9	None	Radon less than 4.0
205			1 focation	2,6	None	Radon less than 4.0
206		-	1 location	2.5	None	Radon less than 4.0
207			1 location	2.0	None	Radon less than 4.0
214			1 location	2.0	None	Radon less than 4.0
215			1 location	1.9	None	Radon less than 4.0
216			1 location	1.9	None	Radon less than 4.0
217			1 location	1.9	None	Radon less than 4.0
306			2 locations	1.7	None	Radon less than 4.0
314			1 location		None	Radon less than 4.0
316			6 locations		None	Radon less than 4.0
317			7 locations		None	Radon less than 4.0
319			1 location		None	Radon less than 4.0
320			5 locations		None	Radon less than 4.0
321			4 locations			Radon less than 4.0
323			4 locations		None	Radon less than 4.0
323			9 locations		None	Radon less than 4.0
324			9 locations		None	Radon less than 4.0
325			9 locations		None	Radon less than 4.0
327			9 locations		None	Radon less than 4.0
328			8 locations		None	Radon less than 4.0
329			9 locations		None	Radon less than 4.0
			9 locations		None	Radon less than 4.0
330 331						
			9 locations		None	Radon less than 4.0
332			8 locations		None	Radon less than 4.0
333			9 locations		None	Radon less than 4.0
334			1 location		None	Radon less than 4.0

Table G-3 (Continued)

Dullellas			Podon	Dadas	1.00	
Building Number	Acreage	SQFT	Radon Measurements	Radon	Designation	Comment
339	Acreage	.0411	9 locations	FGAGIS	None	Radon less than 4.0
340			8 locations		None	Radon less than 4.0
341			9 locations	 	None	Radon less than 4.0
342			9 locations	-	None	Radon less than 4.0
343			9 locations		None	Radon less than 4.0
345			9 locations		None	Radon less than 4.0
346			9 locations		None	Radon less than 4.0
347			8 locations		None	Radon less than 4.0
348			8 locations		None	Radon less than 4.0
349			9 locations		None	Radon less than 4.0
350			8 locations		None .	Radon less than 4.0
356			16 locations		None	Radon less than 4.0
357			16 locations		None	Radon less than 4.0
612			4 locations		None	Radon less than 4.0
701			7 locations		None	Radon less than 4.0
702			3 locations	1.8-2.1	None	Radon less than 4.0
703			5 locations	1.4-5.4	None	1996 Retest below 4.0
704			5 locations	1.5-2.0	None	Radon less than 4.0
705			4 locations		None	Radon less than 4.0
706			2 locations		None	Radon less than 4.0
707			9 locations		None	Radon less than 4.0
708			5 locations	1.4-2.1	None	Radon less than 4.0
710			1 location	1.1	None	Radon less than 4.0
711	1 1	11	1 location	0.9	None	Radon less than 4.0
715			2 locations		None '	Radon less than 4.0
718			1 location		None	Radon less than 4.0
720			2 locations		None	Radon less than 4.0
722	7 (123)		2 locations	1.4-1.9	None	Radon less than 4.0
723	V	-	11 locations		None	Radon less than 4.0
724	2 12	· ·	4 locations		None	Radon less than 4.0
726 -	1		2 locations		None	Radon less than 4.0
729	3.74		2 locations	1.2-1.7		Radon less than 4.0
731			3 locations			Radon less than 4.0
732			2 locations			Radon less than 4.0
740			3 locations	1.6-2.1		Radon less than 4.0
742			1 location	. 1.3		Radon less than 4.0
744			8 locations	1 112		Radon less than 4.0
746			3 locations			Radon less than 4.0
747			4 locations			Radon less than 4.0
750			1 location			Radon less than 4.0
751			2 locations			Radon less than 4.0
752			3 locations	1.2-1.4		Radon less than 4.0
800			I location	0.9		Radon less than 4.0
802			2 locations	V.,		Radon less than 4.0
803			2 locations			Radon less than 4.0
804			1 location			Radon less than 4.0
805	33		2 locations			Radon less than 4.0
806	7 10		3 locations			
				7		Radon less than 4.0
807			2 locations			Radon less than 4.0
810			6 locations	0.9-1.3	None -	Radon less than 4.0

Table G-3 (Continued)

Building Number	Acreage	SQFT	Radon Measurements	Radon Levels	Désignation	Comment
812			2 locations		None	Radon less than 4.0
813	•		1 location		None	Radon less than 4.0
814			1 location		None	Radon less than 4.0
815			3 locations		None	Radon less than 4.0
816			7 locations		None	Radon less than 4.0
817			1 location		None	Radon less than 4.0
819			8 locations		None	Radon less than 4.0
						Radon less than 4.0
825			6 locations		None	
2073			1 location		None	Radon less than 4.0 Radon less than 4.0
2076			2 locations		None	
2104			1 location		None .	Radon less than 4.0
2301			2 locations		None	Radon less than 4.0
2305			3 locations		None	Radon less than 4.0
2306			1 location	1	None	Radon less than 4.0
2311			1 location	1.2	None	Radon less than 4.0
2401			4 locations	1.7-2.6	None	Radon less than 4.0
2403			3 locations	2.0-2.5	None	Radon less than 4.0
2404			2 locations	1.5-2.6	None .	Radon less than 4.0
2406			2 locations	1.4-1.8	None	Radon less than 4.0
2408			2 locations	2.2-2.3	None	Radon less than 4.0
2410			2 locations		None	Radon less than 4.0
2411			1 location		None	Radon less than 4.0
2412			1 location	2,3	None	Radon less than 4.0
2414			1 location	2.3	None	Radon less than 4.0
2415			1 location	1.9	None '	Radon less than 4.0
2418			1 location	1.1-	None	Radon less than 4.0
2419			1 location	2.1	None	Radon less than 4.0
2421			1 location	1.1	None	Radon less than 4.0
2423			1 location	2.3	None	Radon less than 4.0
2426			1 location	3.1	None	Radon less than 4.0
2427			1 location	2	None	Radon less than 4.0
2429			1 location	1.8	None	Radon less than 4.0
2432			1 location	1.8	None	Radon less than 4.0
2437			1 location	1,4	None	Radon less than 4.0
2438			1 location	2	None	Radon less than 4.0
2441			I location	1.7	None	Radon less than 4.0
2443			1 location	2.3	None	Radon less than 4.0
2445			1 location	2.6	None	Radon less than 4.0
			1 location	1.9	None	Radon less than 4.0
2448	· ·					Radon less than 4.0
2450		* * · ·	2 locations	1.4-1.8	None	Radon less than 4.0
2452			1 location	1.9	None	
2453			1 location	2.5	None	Radon less than 4.0
2485			2 locations	2622	None	Radon less than 4.0
2491			2 locations	2.6-2.9	None	Radon less than 4.0
2492			2 locations	2.3-2.6	None	Radon less than 4.0
2493			2 locations	3.8-4.9	None	1996 Retest below 4.0
2494	V 1 1		2 locations	2.2-2.5	None	Radon less than 4.0
2495			2 locations	2.4-2.8	None	Radon less than 4.0
2496	·		4 locations	0,0-2.4	None	Radon less than 4.0
2498			2 locations	2.0-2.1	None	Radon less than 4.0

Table G-3 (Continued)

Building Number A 2500 2501 2502 2504 2505 2507 2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521 2523	Acreage	SQFT	Radon Measurements 2 locations 2 locations 3 locations 3 locations 2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 1 locations	Radon Levels 2.6-3.4 2.3-2.6 1.7-2.0 2.0-2.1 2.2-3.2 2.0-2.9 3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None None None None None	Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2501 2502 2504 2505 2507 2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 2 locations 3 locations 3 locations 2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 1 location	2.3-2.6 1.7-2.0 2.0-2.1 2.2-3.2 2.0-2.9 3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None None None None None	Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2502 2504 2505 2507 2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 3 locations 3 locations 2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 1 location	1.7-2.0 2.0-2.1 2.2-3.2 2.0-2.9 3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None None None None None	Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2504 2505 2507 2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			3 locations 3 locations 2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 1 location	2.0-2.1 2.2-3.2 2.0-2.9 3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None None None None	Radon less than 4.0 Radon less than 4.0 Radon less than 4.0 1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2504 2505 2507 2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			3 locations 2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 1 location	2.0-2.1 2.2-3.2 2.0-2.9 3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None None	Radon less than 4.0 Radon less than 4.0 1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2507 2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 2 locations 2 locations 2 locations 2 locations 2 locations 1 location	2,0-2,9 3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None	Radon less than 4.0 1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2508 2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 2 locations 2 locations 2 locations 2 locations 1 location	3.5-4.0 2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None None	1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2509 2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 2 locations 2 locations 2 locations 1 location	2.2 1.7-2.2 1.8-2.2 2.5-3.0	None None None	1996 Retest below 4.0 Radon less than 4.0 Radon less than 4.0 Radon less than 4.0
2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 2 locations 2 locations 1 location	1.7-2.2 1.8-2.2 2.5-3.0	None None	Radon less than 4.0 Radon less than 4.0
2510 2511 2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 2 locations 1 location	1.8-2.2 2.5-3.0	None	Radon less than 4.0
2512 2513 2514 2515 2517 2518 2519 2520 2521			2 locations 1 location	1.8-2.2 2.5-3.0		
2512 2513 2514 2515 2517 2518 2519 2520 2521			1 location		None	
2513 2514 2515 2517 2518 2519 2520 2521					None	Radon less than 4.0
2514 2515 2517 2518 2519 2520 2521			O le codicio	2.1	None	Radon less than 4.0
2517 2518 2519 2520 2521			2 locations	2.8-3.2	None	Radon less than 4.0
2517 2518 2519 2520 2521			2 locations	2.4-2.6	None	Radon less than 4.0
2518 2519 2520 2521			1 location	1.9	None	Radon less than 4.0
2519 2520 2521		-	2 locations	3.2-5.4	None	1996 Retest below 4.0
2521			2 locations	2.9-3.9	None	Radon less than 4.0
			2 locations	3.2-3.7	None	Radon less than 4.0
	-	-	2 locations	2.2-3.0		Radon less than 4.0
4343 I			2 locations	4.1-4.2	None	1996 Retest below 4.0
200-A			1 location	2.3	None	Radon less than 4.0
200-В			1 location	2,2	None	Radon less than 4.0
201-A			1 location	1.9		Radon less than 4.0
201-B			1 location	1.7		Radon less than 4.0
208-A			1 location	4.1		1996 Retest below 4.0
208-B			4 locations	2.3-3.1		Radon less than 4.0
209-A			2 locations	3,8-4.8		1996 Retest below 4.0
209-B			2 locations	3.1-6.0		1996 Retest below 4.0
210-A			1 location	2,4		Radon less than 4.0
210-B	-	~	2 locations	1.9-2.2		Radon less than 4.0
211-A			1 location	3.5		Radon less than 4.0
211-B	-		1 location	3.1	to be a second or the second o	Radon less than 4.0
212-A			1 location	1.4		Radon less than 4.0
212-B	-		1 location	2.1		Radon less than 4.0
213-A			1 location	2.2		Radon less than 4.0
213-B		3,11	1 location	1.6		Radon less than 4.0
218-A	,		l location .	1.9		Radon less than 4.0
218-B			1 location	1.9		Radon less than 4.0
219-A	1/2		1 location	1.8		Radon less than 4.0
219-B			1 location	2		Radon less than 4.0
221-A		1 11	1 location	2.1		Radon less than 4.0
221-B	77.0	# 1 s, s	1 location	2.2		Radon less than 4.0
222-A			1 location	2.1		Radon less than 4.0
222-B			1 location	- 1.7		Radon less than 4.0
223-A		12.7	1 location	1.6		Radon less than 4.0
223-B			2 locations	1.9-2.1		Radon less than 4.0
224-A			1 location	2.2		Radon less than 4.0
224-A			1 location	2.1		Radon less than 4.0
224-C		-	1 location	1.8	-	Radon less than 4.0
224-D			1 location	2.8		Radon less than 4.0

Table G-3 (Continued)

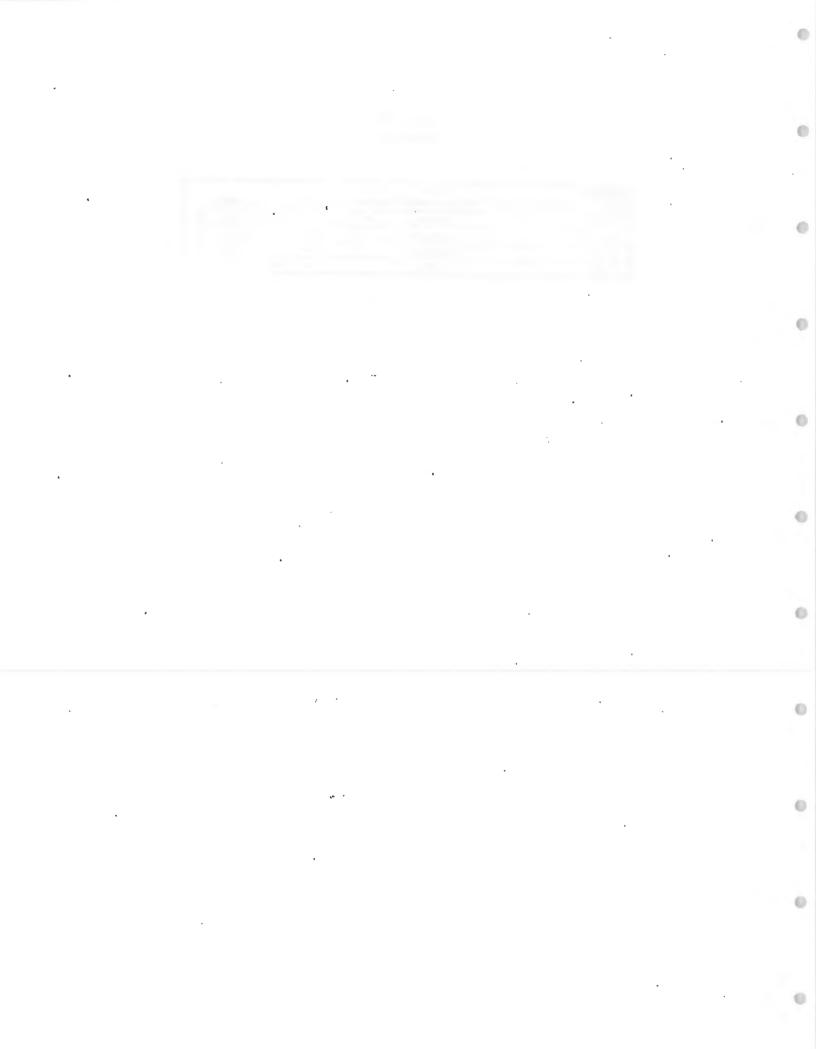
Building			Radon	Radon		and the second of the
Number	Acreage	SQFT	Measurements	Levels	Designation	Comment
225-A			1 location	2.1	None	Radon less than 4.0
225-B			1 location	1.9	None	Radon less than 4.0
225-C			1 location	1.7	None	Radon less than 4.0
225-D			1 location	2.7	None	Radon less than 4.0
226-A			1 location	2	None	Radon less than 4.0
226-В			1 location	1.9	None	Radon less than 4.0
226-C			2 locations	2.3-2.9	None	Radon less than 4.0
227-A	-		1 location	2.6	None	Radon less than 4.0
227-B			1 location	1.9	None	Radon less than 4.0
227-C			1 location	2.3	None	Radon less than 4.0
227-D			2 locations	2.0-2.9	None	Radon less than 4.0
228-A			1 location	2.4	Nопе ·	Radon less than 4.0
228-B			1 location	1.8	None	Radon less than 4.0
228-C			1 location	2,3	None	Radon less than 4.0
228-D			1 location	2	None	Radon less than 4.0
229-A		•	1 location	1.9	None	Radon less than 4.0
229-B			1 location	1.3	None	Radon less than 4.0
229-C		· ·	1 location	2.2	None	Radon less than 4.0
229-D			1 location	1.9	None	Radon less than 4.0
230-A			l location	2.5	None	Radon less than 4.0
230-B			1 location	1.4	None	Radon less than 4.0
230-D			1 location	2.8	None	Radon less than 4.0
230-D	1		1 location	2.0	None	Radon less than 4.0
231-A			1 location	2.6	None	Radon less than 4.0
231-A			1 location	2.1	None	Radon less than 4.0
231-B			1 location	2.1	None	Radon less than 4.0
231-D			1 location	1.5	None	Radon less than 4.0
231-D 232-A		`	1 location	1.8	None	Radon less than 4.0
232-A 232-B			1 location			
				2.8	None	Radon less than 4.0
232-C 232-D			1 location	1.6	None	Radon less than 4.0
			1 location	1.7	None	Radon less than 4.0
233-A			1 location	1.2	None	Radon less than 4.0
233-B		· ·	1 location	2.7.	None	Radon less than 4.0
233-C			2 locations	1.2-2.9	None .	Radon less than 4.0
233-D			2 locations	1.8-2.3	None	Radon less than 4.0
234-A			1 location	1.9	None	Radon less than 4.0
234-B			1 location	1.7	. Ноле	Radon less than 4.0
234-C		·	1 location	1.8	None	Radon less than 4.0
234-D			1 location	1.5	None	Radon less than 4.0
235-A			1 location	2.4	Nопе	Radon less than 4.0
235-B			1 location	1.6	None	Radon less than 4.0
235-C			1 location	1.6	None	Radon less than 4.0
235-D			2 locations	2,1-2.3	None	Radon less than 4.0
236-A			1 location	1.5	None	Radon less than 4.0
236-В			l location	1.7	None	Radon less than 4.0
236-C			2 locations	1.8-2.3	Нопе	Radon less than 4.0
236-D			1 location	2.2	. None	Radon less than 4.0
237-B			1 location	1.9	None	Radon less than 4.0
237-C			I location	1.7	None	Radon less than 4.0
237-D			1 location	2.5	None	Radon less than 4.0

Table G-3 (Continued)

Building Number	Acreage	SQFT	Radon Measurements	Radon	Designation	Comment
238-A			1 location	2.2	None	Radon less than 4.0
238-B			1 location	2.3	None	Radon less than 4.0
238-C			1 location	1.4	None	Radon less than 4.0
238-D			1 tocation	2	None	Radon less than 4.0
239-A			1 location	2.3	None	Radon less than 4.0
239-B			1 location	1.7	None	Radon less than 4.0
239-C		-	2 locations	1.6-1.8	None	Radon less than 4.0
239-D			1 location	2.2	None	Radon less than 4.0
240-A			1 location ·	1.9	None	Radon less than 4.0
240-B			1 location	2.3	None	Radon less than 4.0
240-C			1 location	1.6	None	Radon less than 4.0
240-D		-	1 location	2.2	None	Radon less than 4.0
241-A			1 location	2.5	None	Radon less than 4.0
			· 1 location	2.2	None	
241-B 241-C			1 location	1.7	None	Radon less than 4.0 Radon less than 4.0
			1 location	1.7	None	Radon less than 4.0
241-D						
242-A			1 location	3.3	None	Radon less than 4.0
242-B			1 location	1.7	None	Radon less than 4.0
242-C			2 locations	1.8-2.0		Radon less than 4.0
242-D			1 location	1.5	None	Radon less than 4.0
243-A			1 location	2.4		Radon less than 4.0
243-B			1 location	2.2	None	Radon less than 4.0
243-C			1 location	3.1		Radon less than 4.0
243-D			1 location	2.3		Radon less than 4.0
244-A			1 location	2.2		Radon less than 4.0
244-B			1 location	1.5		Radon less than 4.0
244-C			1 location	2.3		Radon less than 4.0
244-D			1 location	2.6		Radon less than 4.0
245-A			1 location	2.4		Radon less than 4.0
245-B			1 location	2.7	None	Radon less than 4.0
245-C			1 location	2.3	None	Radon less than 4.0
245-D			1 location	2	None	Radon less than 4.0
2470	75		1 location	1.5	None	Radon less than 4.0
2471			2 locations	1.6-1.7	None	Radon less than 4.0
2472			1 location	1.4	None	Radon less than 4.0
2474			1 location	1.9	None	Radon less than 4.0
2475			1 location	1	None	Radon less than 4.0
2476			1 location	1.8	None	Radon less than 4.0
2477			1 location	1.1	None	Radon less than 4.0
2478			1 location	1.4	None	Radon less than 4.0
2479			1 location	5	None	1996 Retest below 4
2480			1 location	1.8	None	Radon less than 4.0
2481			·1 location	1.5	None	Radon less than 4.0
2482			1 location	1.2	None	Radon less than 4.0
2483			1 location	2.1		Radon less than 4.0
2484			1 location	1.5		Radon less than 4.0
2486			1 location	1.1		Radon less than 4.0
2487			1 location	1		Radon less than 4.0
2488			1 location	1		Radon less than 4.0
2489			1 location	1.2		Radon less than 4.0

Table G-3 (Continued)

Building Number	Acreage	SQFT	Radon Measurements	Radon Levels	Designation	Comment
2490			1 location	0.8	None	Radon less than 4.0
Loran C			2 locations	1.4-1.5	None	Radon less than 4.0
S-714			3 locations		None	Radon less than 4.0
S142			4 locations		None	Radon less than 4.0



APPENDIX H RUMORS LIST

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DEPARTMENT OF THE ARMY

SENECA ARMY DEPOT ACTIVITY ROHULUS, NEW YORK 14541-6001

Office of Public Works

April 11, 1995

Mr. Kamal Gupta New York State Department of Environmental Conservation Bureau of Eastern Remedial Action Division of Hazardous Waste Remediation Room 208, 50 Wolf Road Albany, NY 12233-7010

Ms. Carla M. Struble, P.E. Program Manager Federal Facilities Section U.S. Environmental Protection Agency Emergency & Remedial Response Division 290 Broadway, 18th Floor, E-3 New York, NY 10007-1866

Dear Mr. Gupta/Ms. Struble:

In accordance with Section 10.5 of the Federal Facility Agreement (FFA) for Seneca Army Depot Activity (SEDA), SEDA submits the enclosed list of potential Areas of Concern.

This list is a compilation of stories, rumors, findings due to continued research, and/or reported disposal areas. Future investigation of these sites or reports should begin with an historical search through depot pictures and maps located at SEDA, and include interviews with retired depot employees. USGS aerial photographs for 1941 through the present should be reviewed by personnel trained in aerial photography interpretation; this will aid in finding and verifying some sites.

SEDA is included in an Army Environmental Baseline Study scope of work for BRAC installations. This may be an appropriate and effective means to evaluate these potential AQC's.

Sincerely,

Randall W. Battaglia

Remedial Project Manager

enclosure

CF: Mike Duchesneau, Engineering-Science, Inc. Kevin Healy, USACE, Huntsville Division

Kathleen Buchi, AEC

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POTENTIAL AREAS OF CONCERN

- 1. It was reported that in the 1950's, ammunition was buried in low "swale" areas; this normally means wetland areas. Retirees should be interviewed regarding this as well as aerial photos.
- 2. The lake housing area contains fill areas. Old photographs of the Officer's Club show a shoreline much closer to the club than currently exists. Further investigation of this area shows that the Army property does not conform to the adjacent shoreline (north of the Officer's Club and south of the housing area). The natural topography appears to be steeply graded, indicating that the parking lot, Officer's Club area, and the lakeshore housing were fill areas. Also, northeast and adjacent to Flak Drive, there is currently a playground located on an area which is a fill area. On the south east end of the lake area, a dead-end road contains an area which is used for storage of debris.
- 3. The Shale Pit (SEAD-7) has spill booms visible at the northwest end of the fill area. This is evidently an unauthorized disposal of spill wastes, since this area was intended to be used only for clean fill. Corroded, empty drums are evident at what appears to be an abandoned farm house in the area adjacent to the Shale Pit, behind the Chapel.
- 4. Approximately 200 farms were condemned under eminent domain when the Army built Seneca Ordnance Depot in 1941. It was reported that some of these wells were used for disposal of wastes. This report has not yet been substantiated, and the nature of the wastes has not been determined.
- 5. An incinerator existed near the Sludge Piles, SEAD-5; a photograph exists of this incinerator. The types of wastes are unknown.
- 6. A coal pile existed, and coal is evident, north of the salt storage building, near SEAD-5. Other coal piles may have existed on SEDA when this was a commonly used heating fuel.
- 7. Paints and solvents were reportedly dumped on the east side of building 813. Other burial areas similar to SEAD 63 and SEAD 12 are likely near these areas; aerial photographs should be reviewed.
- 8. A "hill" is readily evident north of Post 3, where reportedly drums were buried.
- 9. DDT cans were rumored to be buried under the "ice rink", adjacent to and east of the water tower at the north end administrative area.

- 10. A pond which was later filled in reportedly existed adjacent to and west of the Elliott Acres housing area and south of the wooded area. Old As-Built drawings of this area did not show evidence of this; aerial photographs should also be reviewed.
- 11. A berm and various gravel roads are evident north of building 309; this may have been related to the small arms range, SEAD-46, however, this needs to be substantiated.
- 12. A concrete plant and staging area was constructed on the west side of SEDA near Post 2, when the depot was constructed.
- 13. Steam cleaning reportedly occurred on the loading platforms in the warehouse area and Industrial Plant Equipment area.
- 14. Coal ash was discovered during the construction of the playground area due south of building 123.

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- 15. Along the west patrol road, north of cemetery road, there are bermed, square areas with apparently stressed vegetation.
- 16. The Defense Reutilization and Marketing Office(DRMO) scrap yard was rumored to be a disposal/fill area.
- 17. An area near the "A" block of igloos, south of the "Q" fence, contains soil which previously was treated with herbicides, then was excavated and placed there for fill.

QUESTIONS FOR INTERVIEWEES ABOUT POTENTIAL AREAS OF CONCERN

	Rumor Number	
<u>Area</u>		
Ammo	1	Do you know of areas where ammunition was buried? Other than OB/OD and the landfill, only one interviewee had information about ammunition burial. Interviewee was highly confident about two areas north and east of the Munitions Washout Facility. The general locations of these areas are shown on Map 1. Also shown are two other dumping areas where Interviewee had no specific knowledge of ammunition burial.
Ammo	12	Did a concrete plant and staging area exist near Post 2? All but one interviewee had no knowledge of this plant. Interviewee had been told of a plant (but had no first hand knowledge) south of Kendaia Road between the RR track and the outside fence.
Ammo	15	Do you know of burial activities along the west patrol road north of Cemetery Road? One interviewee had knowledge of this area. He believed that rubble from old buildings was buried here. Also he knew that oils and solvents were dumped in rodent holes along the West Patrol Road north of this area.
Ammo		Were herbicide treated soils used for fill south of the Q fence? No interviewees had particular knowledge of this activity. One interviewww recalls a ditch being dug along the fence. Another interviewee recalls the area near the fence being filled to move the creek away from the fence for security reasons. Neither specified the years of these activities.

Rumor Number

Area Ammo

9 W

Was DDT used or disposed of near the incinerator?

No interviewees had any direct knowledge of this activity. One interviewee said that it probably occured but had no direct knowledge.

North Admin.

3

Were spill wastes (e.g., booms and other adsorbent materials) buried in the shale pit? Any materials other than construction debris?

No interviewees had any direct knowledge of spill waste burie

No interviewees had any direct knowledge of spill waste burial. One interviewee said that asbestos shingles were buried here and that the area was used a pistol range. Another interviewee said that an oil leak from the North Admin. boiler drained to the shale pit. Both interviewees thought that the berm to the west of the shale pit was used as a small arms range.

Q Area

7

Do you know what was buried east of Bldg. 813? How deep? Solvents and paint according to two-interviewees. Another interviewee said that 813 was a battery shop and acids may have been dumped.

North Admin.

8

Do you know of drums and other materials buried north of Post 3? What materials? How deep?

No interviewees had any direct knowledge of this activity.

North Admin. 9

Near the water tower, were DDT cans buried under the "ice rink"?

How much? How deep?

No interviewees had any direct knowledge of this activity.

South End IPE Warehouses

Ammo

13

16

Were loading platforms steam cleaned? If so, were any chemicals or petroleum products washed off?

One interviewee said that equipment and rail cars were cleaned at the Ammo, platforms along West Loop Road. No other interviewees had any direct knowledge of this activity.

DRMO Yard Do you know of disposal or fill activities at the yard?

There is somewhat conflicting information concerning fill activities. Two interviewees seemed certain that crushed shale was used as fill to create the yard. Another interviewee, however, was present for the construction of the yard and said that the yard was not built on fill material. Concerning disposal activities, one interviewee stated that there was a great deal of liquid disposal involving oil, solvents, and "you name it."

South End 5

Did an incinerator exist near the sludge pits? What wastes were burned?

One interviewee said that it existed but he never saw it in use. No other interviewees had any direct knowledge of this incinerator.

South End 6

Did a coal pile exist north of the salt storage building? Any other coal piles at the depot?

Three interviewees confirmed the existence of the coal pile near salt storage. One interviewee estimated the location and size of the pile: along the RR tracks; 300 to 400 feet west of the Locomotive House; 50 to 100 feet wide; 200 to 300 feet long. Two interviewees seemed certain that there were no other piles: coal was trucked from main pile to boilers. However, interviewee believed there was a pile at every boiler.

South End 10

Did a pond exist adjacent to and west of Elliot Acres and south of the wooded area? (It is now a field.) What fill material was used? No interviewees believed that there was a pond here. Two interviewees said that it was a marsh. One of these said that there had been fill material placed in the marsh; he believes it was dirt.

South End 14

Was coal ash buried south of Building 123?

No interviewees had any direct knowledge of this activity.

Lake HousingAre you aware of fill areas at Lake Housing and/or the Officers' Club? What materials?

The point at the Officers' Club was built of concrete, dirt, and shale according to three interviewees

Do you know of post-dumping activities at the southeast and of L.H.? (e.g., at the ends of dead-end roads.)

No interviewees had any direct knowledge of this activity.

Do you know of fill activities along Flak Drive?

One interviewee knew of dumping/fill activities near the "Red Barn." Did not specify materials. No other interviewees had any direct knowledge of this activity.

Depot-Wide 4

Were old wells from farms used for disposal of wastes?

One interviewee said that carbon tet. and fuel oil were poured into at least two wells: one at old Gate 2 and one near bldg. 2206.

Another interviewee said that wells were generally filled with rock and dirt; he knew of no other materials.

Duck Pond 11

Any knowledge of burial activities at south end of Duck Pond area (north of Bldg. 309 - see map)? Possibly related to the small arms range.

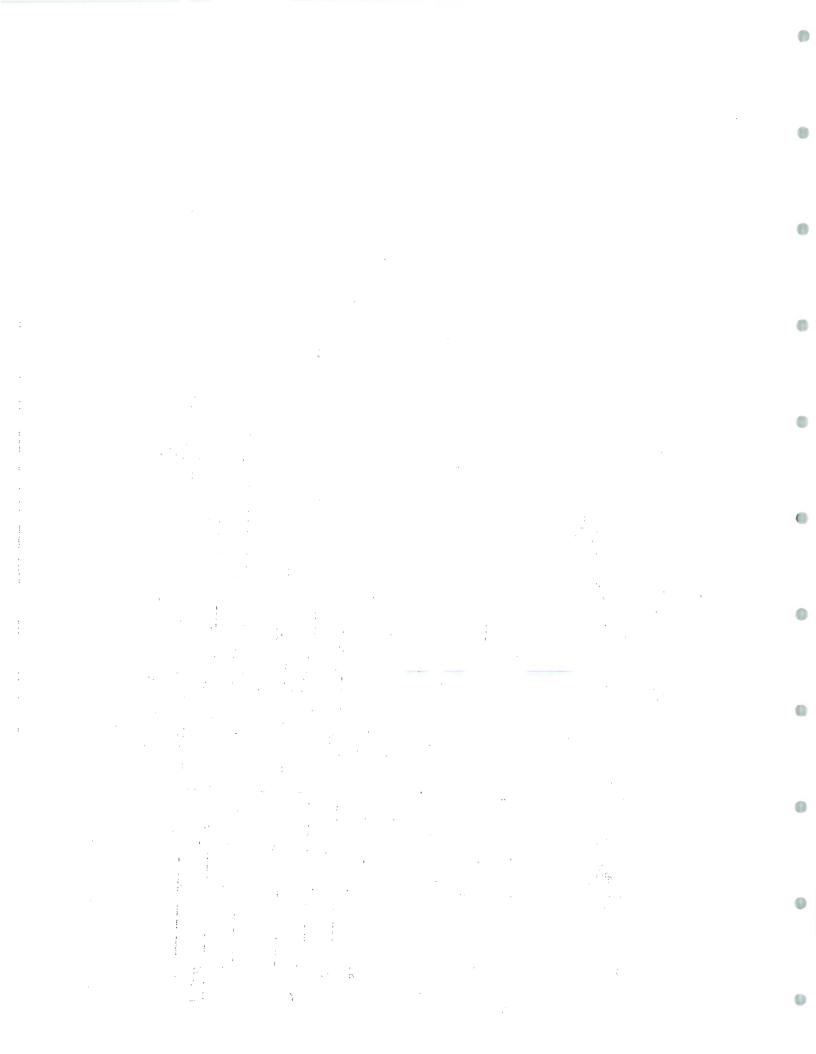
No interviewees had any direct knowledge of this activity.

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CERFA Table 1
BRAC ACREAGE SUMMARY TABLE
SENECA ARMY DEPOT ACTIVITY, NEW YORK

ENVIRONMENTAL CONDITION CATEGORY NUMBER	TOTAL AGREAGE	ACREAGE MINUS QUALIFIED AREAS	F940(00)90(00)600(00)800(00)000(00)	\$300-\$100000000000-50000000000000000000000	60000000000000000000000000000000000000	PCB- QUALIFIED ACREAGE	 District Control of the	QUALIFIED	RADIONUCLIDE- QUALIFIED ACREAGE
1	8,554.94	8,465:94	89.00	35.06	36.56	0.02	0.32	55.72	7.34
2	111.25	90.74	20.51	. 17.22	20.40	0	0.06	0.09	0.08
3	21.33	3.20	18.13	17.65	18.04	0	0	2.1	. 0
4 .	1.75	1.32	0.43	0.14	0.43	0	0	0	0
5	207.05	117.60	89.45	0.26	0.07	0	0	0.61	89.19
6	1,724.83	137.86	1,586.97	2.69	6.58	0	0	1,244.72	341.39
7	12.85	12.76	0.09	0.09	0.09	0	0	0	0
Total	10,634.00	8,829.42	1,804.58	73.11	82.17	0.02	0.38	1,303.24	438.00

Note: Acreage figures are approximate; they have been calculated using AutoCad Release 12.



CERFA Table 2a BRAC PARCEL DESCRIPTIONS SENECA ARMY DEPOT ACTIVITY, NEW YORK

BRAC PARCEL NUMBER AND LABEL®	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ^b	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCES	REMEDIATION/ MITIGATION
1(1)	18,6	189.10	Lake Housing Area	I	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
2(1)	26,10	494.71	Airfield Area	1	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
3(1)	16,15	7,870.22	Depot Wide	1	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
4(1)	19,24	1.16	Circa 1 acre in Elliot Acres	\$	No record of storage, disposal, release, or migration	Visual Inspection, Interview	None required
5(2)PS/HS	17,2	61.88	Lake Housing Area	2	Building 2485 - fuel oil storage	21	None required
6(4)PS/PR	28,10	0.25	Airfield Area	4	Building 2310 - JP8 UST reported leaking in 1988	21, LUST list	Required actions have been taken
7(2)PS	28,10	0.25	Airfield Area	2	Building 2306 - fuel oil UST	21	None required
8(4)PS/PR	28,10	0.25	Airfield Area	4	Building 2305 spills - fuel oil UST reported leaking in 1989	21, Spill list	Required actions have been taken
9(2)HS(P)	30,23	1.68	Main Depot Area	2	Acid storage	Visual Inspection, Interview	None required
10(2)PS	28,26	0.25	LORAN-C Area	2 .	Fuel oil storage	21	None required
11(2)HS	24,22	2.02	Warehouse Area	2	Building 327 - pesticide, soda ash, antifreeze	Interview	None required
12(2)HS	24,22	2.02	Warehouse Area	2	Building 326 - STB and chlorine impregnate storage	Interview	None required
13(3)HS/HR	23,22	2.02	Warehouse Area	3	Building 330 - pesticide, soda ash, antifreeze storage; spill reported in 1993	Interview, Spill list	Required actions have been taken
14(3)HS/HR	22,22	2.02	Warehouse Area	3	Building 331 - Pesticide, soda ash, antifreeze storage; spill reported in 1992	Interview, Spill	Required actions have been taken

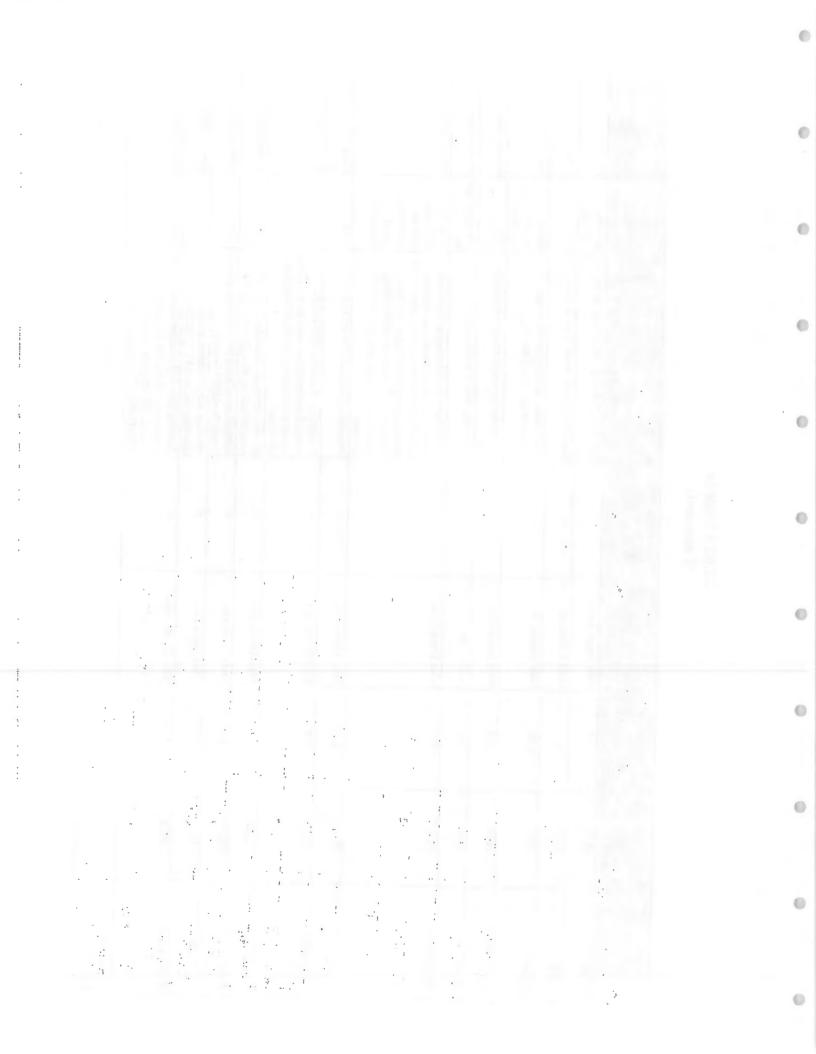
CERFA Table 2a (Continued)

BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)	APPROXIMATE SIZE (ACRES) ^b	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE®	REMEDIATION/ MITIGATION
31(2)PS/HS	20,21	0.25	Main Depot Area	2	Building 312 (General Supply) - hydrofluosilic acid, paint, antifreeze, turpentine, diesel oil	Interview	None required
32(2)PS	2,15	0.25	North Depot Area	2	Building 800 - fuel oil storage	21	None required
33(2)PS	2,15	0.25	North Depot Area	2	Building 729 - fuel oil storage	21	None required
34(2)PS	3,14	0.25	North Depot Area	2	Buildings 719, 721, and 720 - gas station, vehicle maintenance	Visual Inspection	None required
35(2)PS	2,14	0.25	North Depot Area	2	Building 733 - fuel oil storage	21	None required
36(2)PS	3,14	0.25	North Depot Area	2	Building 746 - fuel oil storage	21	None required
37(4)PS/PR	3,12	0.25	North Depot Area	· 4	Building 710 - fuel oil storage reported leaking in 1989	21, LUST list	Required actions have been taken
38(2)PS	2,12	0.71	North Depot Area	2 -	Building 742 - gas station	Visual Inspection	None required
39(2)PS	2,12	0.25	North Depot Area	2	Building 714 - fuel oil storage	21	None required
40(2)PS	2,12	0.25	North Depot Area	2	Building 740 - fuel oil storage	21	None required
41(2)HS	14,9	0.25	Main Depot Area	2	Acid storage (SEAD-65A)	1	None required
42(2)HS	14,9	0.25 .	Main Depot Area	2	Acid storage (SEAD-65B)	1	None required
43(2)PR/HS	14,9	0.25	Main Depot Area	2	Acid storage (SEAD-65C)	1	None required
44(3)PR/HR	29,26	0.25	LORAN-C Area	3	Halon and diesel spills	Interview, Spill	Required actions have been taken
45(3)HS/HR	27,25	4.65	Warehouse Area	3	Building 356 (SEAD-49) - columbite ore storage, DS-2 storage/spills	1, 20	None required
46(3)HR	18,21	0.96	South Admin Area	3	Wood burn ash, pressure-treated wood (SEAD-10)	1	None required

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CERFA Table 2a (Continued)

BRAC PARCEL NUMBER AND LABEL®	LOCATION (X,Y GOORDINATES)		GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWIND NO.)	EBS SOURCE OF EVIDENCES	REMEDIATION MITIGATION
52(5)PR	19,23	5.49	Main Depot Area	5	Spill from Building 138, partially clean	Interview, LUST list	Pending
53(5)HR	3,17	15.79	Special Weapons Area	5	Radioactive waste burial (SEAD-12A)	1, 18	Pending
54(6)HR(P)	16,2	0.25	Lake Housing Area	. 6	Pump house Building 2409 - sewage release on east side of building	Visual Inspection, Interview	None to date
55(6)PR(P)/HR	18,11	1.88	Main Depot Area	6	Abandoned powder burning area (SEAD- 24)	1, 16	None to date
56(6)PR	29,12	7.43	Airfield Area	6	Fuel spills west of Building 2312	Interview, Spill list	None to date
57(6)PS/PR/HR	32,17	178.84	Main Depot Area		Fuel oil storage, old construction debris landfill (SEAD-11), munitions washout plant (SEAD-4), boiler pit blowdown leach pit at Building 2079 (SEAD-38), leaking tank reported at Building 2079 in 1993, spill reported at Building 2073 in 1992, dumping	I, 16, 17, LUST list, Spill list, Interviews, Visual Inspection	None to date
58(6)HR	31,19	8.60	Main Depot Area	6	Garbage disposal area (SEAD-64B)	1, 19	None to date
59(6)PS/PR/HR	31,22	7.57	Main Depot Area	6	Buildings 608 and 612 (SEAD-52) - ammunition breakdown area, oil discharge adjacent to Building 609 (SEAD-60), fuel oil storage	1, 19	None to date
60(6)HR	32,23	3.72	Main Depot Area	6	Material proof and surveillance test area west of Building 616 (SEAD-44A)	1, 18	None to date
61(6)HR	30,22	1.62	Main Depot Area	6	Material proof and surveillance test area on Brady Road (SEAD-44B)	1, 18	None to date
62(6)HR(P)	31,23	1.82	Main Depot Area	6	Nicotine sulfate disposal area near Buildings 606 and 612 (SEAD-62)	1, 18	None to date
63(6)PS/HS/HR	30,25	10.00	Main Depot Area	6	Building 606 - Old Missile Propellant Test Laboratory (SEAD-43), disposal area (SEAD-69), herbicide and pesticide storage (SEAD-56), UST at Building 606	1, 18	None to date



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BRAC PARCEL NUMBER AND LABEL*	LOCATION (X.Y COORDINATES)	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE®	REMEDIATION/
81(6)HS/HR	19,21	0.43	Main Depot Area	6	Sewage sludge waste piles (SEAD-5)	1, 18	None to date
82(6)PS/PR/HS/HR	19,21	4.47	Main Depot Area	6	Building S-311 (SEAD-16) - deactivation furnace, Building S-361 - raw material storage yard; spill reported at Building S-311 in 1993	1, 16, Visual Inspection, Spill list	None to date
83(6)HS/HR(P)	19,19	1.41	Main Depot Area	6	Open chromite ore pile	Visual Inspection	None to date
84(6)PS/PR(P)	18,19	1.16	Main Depot Area	6	Buildings 308, 306 - Boiler House, Inspector's Workshop, staining	Visual Inspection	None to date
85(6)PR/HR	19,21	0.69	USE Area	6	Fill area with unknown contents west of Building 135 (SEAD-59)	1, 18	None to date
86(6)PR/HS/HR	19,22	0.11	South Depot Area	6	Building 135 - vehicle storage building with stained soil	Visual Inspection	None to date
87(6)PS/PR/HR(P)	19,23	0.25	South Depot Area	6	Building 121 (SEAD-36) - waste oil tank (SEAD-33), boiler plant blowdown leach pit (SEAD-39), boiler plant	1	None to date
88(6)PS/PR	19,22	0.14	South Depot Area	6	UST at Building 127 with stained soil	Visual Inspection	None to date
89(6)HR	18,22	1.16	South Depot Area	6	Alleged paint/solvent disposal area (SEAD-71)	1, 19	None to date
90(6)PR(P)/HR	17,22	2.07	Duck Ponds Area	. 6	Old scrap wood (SEAD-9)	1, 18	None to date
91(6)HS/HR(P)	17,19	0.98	Main Depot Area	6	Open chromite ore pile	Visual Inspection	None to date
92(6)HS/HR(P)	16,19	4.62	Main Depot Area	6	Pesticide storage - Buildings 5 and 6 (SEAD-66)	1	None to date
93(6)HS/HR(P)	16,19	0.91	Main Depot Area	6	Open aluminum oxide ore pile	Visual Inspection	None to date
94(6)HR	16,20	5.12	Duck Ponds Area	6	Sewage Treatment Plant No. 4 (SEAD-20), dump site to east (SEAD-67)	1, 19	None to date
95(6)HS/HR(P)	16,19	0.49	Main Depot Area	. 6	Open ferro manganese ore pile	Visual Inspection	None to date
96(6)HR(P)	11,19	10.07	Duck Ponds Area	6	IRFNA disposal site (SEAD-13)	1, 17	None to date

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BRAC PARCEL NUMBER AND LABEL*	LOCATION (X,Y COORDINATES)		GEOGRAPHIC AREA	ENVIRONMENTAL CONDITION CATEGORY NUMBER	BASIS (SWMU NO.)	EBS SOURCE OF EVIDENCE ^S	REMEDIATION/ MITIGATION
103(6)HR	5,13	3.64	Special Weapons Area	6	Miscellaneous components burial area (SEAD-63)	1, 19	None to date
104(6)PR/HS/HR	5,9	1055.65	Main Depot Area	6	Open burning (SEAD-23), open detonation (SEAD-45), explosive ordnance disposal (SEAD-57), filled area at Building T-2110 (SEAD-70), training area, spills reported at Open Burning and Open Detonation Grounds in 1994; spill reported at Building 2134 in 1995	1, 16, Visual Inspection, Interview, Spill list, LUST list	None to date
105(6)HS/HR(P)	15,13	1.95	Main Depot Area	6	Aluminum oxide ore pile		None to date
106(6)HR	17,11	11.36	Main Depot Area	6	Debris area near Booster Station 2131 (SEAD-58), possible DDT disposal	1, 18	None to date
107(7)	30,10	0.25	Airfield Area	7	Connex - unknown contents	Visual Inspection	None to date
108(7)HS(P)/HR(P)	22,22	0.09	Warehouse Area	7	Building S-335 (SEAD-68) - old pest control shop]	None to date
109(7)	17,20	4.95	Duck Ponds Area	7	Mounds possibly related to small arms range north of Building 309	Visual Inspection, Interview	None to date
110(7)	11,21	1.10	Duck Ponds Area	7	Mound of unknown contents	Visual Inspection	None to date
111(7)	3,17	0.25	Duck Ponds Area	7	Mound of unknown contents	Visual Inspection	None to date

CERFA Table 2b QUALIFIED PARCEL DESCRIPTIONS SENECA ARMY DEPOT ACTIVITY

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
2-2301Q-L(P)	0.023	Airfield	2301
2-2302Q-L(P)	0.023	Airfield	2302
2-2304Q-L(P)	0.050	Airfield	2304
3-1Q-A(P)/L(P)	0.006	Main Depot	1
3-102Q-L(P)	0.010	South Depot	102
3-104Q-A(P)/L(P)	0.011	South Depot	104
3-110Q-L(P)	0.003	South Depot	110
3-115Q-L(P)/R	0.325	South Depot	115
3-116Q-L(P)	0.309	South Depot	116
3-119Q-L(P)	0.074	South Depot	119
3-122Q-A/L(P)	0.283	South Depot	122
3-123Q-L(P)	0.074	South Depot	123
3-124Q-A/L(P)	0.036	South Depot	124
3-125Q-A/L(P)	0.098	South Depot	125
3-131Q-L(P)	0.055	Main Depot	131
3-137Q-A(P)	0.004	Main Depot	137
3-143Q-L(P)	0.001	Main Depot	143
3-145Q-A(P)/L(P)	0.013	Main Depot	145
3-247Q-A/L(P)	0.001	Main Depot	247
3-301Q-L(P)/P	0.019	Main Depot	301
3-304Q-L(P)	0.019	Main Depot	304
3-309Q-A/L(P)	0,189	Main Depot	309
3-310Q-L(P)	0.019	Main Depot	310
3-313Q-L(P)	0.003	Main Depot	313
3-314Q-L(P)	0.010	Main Depot	314
3-320Q-A(P)/L(P)	0.374	Main Depot	320
3-321Q-L(P)/RD	0.275	Main Depot	321
3-322Q-L(P)	0.006	Main Depot	322
3-325Q-A(P)/L(P)	2.066	Warehouse	325
3-328Q-A(P)/L(P)/X(P)	2.066	Warehouse	328
3-329Q-A(P)/L(P)	2,066	Warehouse	329
3-332Q-A(P)/L(P)	2,066	Warehouse	332
3-334Q-A/L(P)	0.725	Warehouse	. 334
3-339Q-A(P)/L(P)	2.066	Warehouse	339
3-340Q-A(P)/L(P)	2.066	Warehouse	340
3-341Q-A(P)/L(P)	2.066	Warehouse	341
3-342Q-A(P)/L(P)	2.066	Warehouse	342
3-345Q-A(P)/L(P)	2.066	Warehouse	345
3-346Q-A(P)/L(P)	2.066	Warehouse	346
3-347Q-A(P)/L(P)	2.066	Warehouse	347
3-348Q-A(P)/L(P)	2,066	Warehouse	348
130-349Q-A(P)/L(P)	2.066	Warehouse	349

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
3-2129Q-L(P)	0,019	Main Depot	2129
3-2132Q-X(P)	0.002	Main Depot	2132
3-2133Q-X(P)	0.002	Main Depot	2133
3-2200Q-L(P)	0.019	Main Depot	2200
3-2202Q-A(P)/L(P)	0.003	Main Depot	2202
3-2204Q-L(P)	0.019	Main Depot	2204
3-2207Q-A/L(P)/X(P)	0.082	Main Depot	2207
3-705A1Q-A/L(P)	0.088	North Depot	705A
3-A0201Q-X(P)/RD	0.056	Special Weapons	A0201
3-A0202Q-X(P)/RD	0.042	Special Weapons	A0202
3-A0203Q-X(P)/RD	0.056	Special Weapons	A0203
3-A0204Q-X(P)/RD	0,042	Special Weapons	A0204
3-A0205Q-X(P)/RD	0.056	Special Weapons	A0205
3-A0206Q-X(P)/RD	0.042	Special Weapons	A0206
3-A0207Q-X(P)/RD	0.056	Special Weapons	A0207
3-A0208Q-X(P)/RD	0.042	Special Weapons	A0208
3-A0209Q-X(P)/RD	0.056	Special Weapons	A0209
3-A0210Q-X(P)/RD	0.042	Special Weapons	A0210
3-A0211Q-X(P)/RD	0.056	Special Weapons	A0211
3-A0212Q-X(P)/RD	0.042	Special Weapons	A0212
3-A0213Q-X(P)/RD	0.056	Special Weapons	A0213
3-A0214Q-X(P)/RD	0.042	Special Weapons	A0214
3-A0215Q-X(P)/RD	0.056	Special Weapons	A0215
3-A0216Q-X(P)/RD	0.042	Special Weapons	A0216
3-A0217Q-X(P)/RD	0.056	Special Weapons	A0217
3-A0218Q-X(P)/RD	0.042	Special Weapons	A0218
3-A0301Q-X(P)/RD	0.042	Special Weapons	A0301
3-A0302Q-X(P)/RD	0.056	Special Weapons	A0302
3-A0303Q-X(P)/RD	0.042	Special Weapons	A0303
3-A0304Q-X(P)/RD	0.056	Special Weapons	A0304
3-A0305Q-X(P)/RD	0.042	Special Weapons	A0305
3-A0306Q-X(P)/RD	0.056	Special Weapons	A0306
3-A0307Q-X(P)/RD	0.042	Special Weapons	A0307
3-A0308Q-X(P)/RD	0.056	Special Weapons	A0308
3-A0309Q-X(P)/RD	0.042	Special Weapons	A0309
3-A0310Q-X(P)/RD	0.056	Special Weapons	A0310
3-A0311Q-X(P)/RD	0.042	Special Weapons	A0311
3-A0312Q-X(P)/RD	0.056	Special Weapons	A0312
3-A0313Q-X(P)/RD	0.042	Special Weapons	A0313
3-A0314Q-X(P)/RD	. 0.056	Special Weapons	A0314
3-A0315Q-X(P)/RD	0.042	Special Weapons	A0315
3-A0316Q-X(P)/RD	0.056	Special Weapons	A0316
3-A0317Q-X(P)/RD	0.042	Special Weapons	A0317

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
3-A0806Q-X(P)	0.042	Main Depot	A0806
3-A0807Q-X(P)	0.042	Main Depot	A0807
3-A0808Q-X(P)	0.042	Main Depot	A0808
3-A0809Q-X(P)	0.042	Main Depot	A0809
3-A0810Q-X(P)	0.042	Main Depot	A0810
3-A0811Q-X(P)	0.042	Main Depot	A0811
3-A0901Q-X(P)/RD	0.042	Main Depot	A0901
3-A0902Q-X(P)	0.042	Main Depot	A0902
3-A0903Q-X(P)	0.042	Main Depot	A0903
3-A0904Q-X(P)	0.042	Main Depot	A0904
3-A0905Q-X(P)/RD	0.042	Main Depot	A0905
3-A0906Q-X(P)	0.042	Main Depot	A0906
3-A0907Q-X(P)	0.042	Main Depot	A0907 ·
3-A0908Q-X(P)	0.042	Main Depot	A0908
3-A0909Q-X(P)	0.042	Main Depot	A0909
3-A0910Q-X(P)	0.042	Main Depot	A0910
3-A1001Q-X(P)	0.042	Main Depot	A1001
3-A1002Q-X(P)	0.042	Main Depot	A1001
3-A1003Q-X(P)	0.042	Main Depot	A1002
3-A1004Q-X(P)	0.042	Main Depot	A1003
3-A1005Q-X(P)	0.042	Main Depot	A1004
3-A1006Q-X(P)	0.042	Main Depot	A1005
	0.042	Main Depot	A1007
3-A1007Q-X(P) 3-A1008Q-X(P)	0.042	Main Depot	A1007
3-A1009Q-X(P)	0.042	Main Depot	A1008
	0.042		A1010
3-A1010Q-X(P)	0.042	Main Depot	A1011
3-A1011Q-X(P)		Main Depot	A1011
3-A1012Q-X(P)	0.042 0.042	Main Depot	A1101
3-A1101Q-X(P) 3-A1102Q-X(P)	0.042	Main Depot Main Depot	A1101
	0.042	Main Depot	A1102
3-A1103Q-X(P)			
3-A1104Q-X(P)	0.042	Main Depot	A1104
3-A1105Q-X(P)	0.042	Main Depot	A1105
3-A1106Q-X(P)	0.042	Main Depot	A1106
3-A1107Q-X(P)	0.042	Main Depot	A1107
3-A1108Q-X(P)/RD	0.042	Main Depot	A1108
3-A1109Q-X(P)/RD	0.042	Main Depot	A1109
3-A1110Q-X(P)	0.042	Main Depot	A1110
3-A1111Q-X(P)	0.042	Main Depot	A1111
3-B0101Q-X(P)	0.042	Main Depot	B0101
3-B0102Q-X(P)	0.042	Main Depot	B0102
3-B0103Q-X(P)	0.042	Main Depot	B0103
3-B0104Q-X(P)	0.042	Main Depot	B0104

QUALIFIED PARCEL NUMBER AND LABEL*	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	BUILDING NUMBER
3-B0503Q-X(P)	0.042	Main Depot	B0503
3-B0504Q-X(P) :	0.042	Main Depot	B0504
3-B0505Q-X(P)	0.042	Main Depot	B0505
3-B0506Q-X(P)	0.042	Main Depot	B0506
3-B0507Q-X(P)	0.042	Main Depot	B0507
3-B0508Q-X(P)	0.042	Main Depot	B0508
3-B0509Q-X(P)	0.042	Main Depot	B0509
3-B0510Q-X(P)	0.042	Main Depot	B0510
3-B0511Q-X(P)	0.042	Main Depot	B0511
3-B0601Q-X(P)	0.042	Main Depot	B0601
3-B0602Q-X(P)/RD	0.042	Main Depot	: B0602
3-B0603Q-X(P)/RD	0.042	Main Depot	B0603
3-B0604Q-X(P)	0.042	Main Depot	B0604
3-B0605Q-X(P)	0.042	Main Depot	B0605
3-B0606Q-X(P)	0.042	Main Depot	B0606
3-B0607Q-X(P)	0.042	Main Depot	B0607
3-B0608Q-X(P)	0.042	Main Depot	B0608
3-B0609Q-X(P)/RD	0.042	Main Depot	B0609
3-B0610Q-X(P)	0.042	Main Depot	B0610
3-B0611Q-X(P)	0.042	Main Depot	B0611
3-B0701Q-X(P)	0.042	Main Depot	B0701
3-B0702Q-X(P)	0.042	Main Depot	B0702
3-B0703Q-X(P)	0.042	Main Depot	B0703
3-B0704Q-X(P)	0.042	Main Depot	B0704
3-B0705Q-X(P)/RD	0.042	Main Depot	B0705
3-B0706Q-X(P)	0.042	Main Depot	B0706
3-B0707Q-X(P)/RD	0.042	Main Depot	B0707
3-B0708Q-X(P)/RD	0.042	Main Depot	B0708
3-B0709Q-X(P)/RD	0.042	Main Depot	B0709
3-B0710Q-X(P)	0.042	Main Depot	B0710
3-B0711Q-X(P)/RD	0.042	Main Depot	B0711
3-B0801Q-X(P)	0.042	Main Depot	B0801
3-B0802Q-X(P)/RD	0.042	Main Depot	B0802
3-B0803Q-X(P)	0.042	Main Depot	B0803
3-B0804Q-X(P)/RD	0.042	Main Depot	B0804
3-B0805Q-X(P)	0.042	Main Depot	B0805
3-B0806Q-X(P)	0.042	Main Depot	B0806
3-B0807Q-X(P)	0.042	Main Depot	B0807
3-B0808Q-X(P)	0.042	Main Depot	B0808
3-B0809Q-X(P)	0.042	Main Depot	B0809
3-B0810Q-X(P)	0.042	Main Depot	B0810
3-B0811Q-X(P)	0.042	Main Depot	B0811
3-B0901Q-X(P)	0.042	Main Depot	B0901

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QUALIFIED PARCEL NUMBER AND LABEL*	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	BUILDING NUMBER
3-C0401Q-X(P)	0.042	Main Depot	C0401
3-C0402Q-X(P)	0.042	Main Depot	C0402
3-C0403Q-X(P)/RD	0.042	Main Depot	C0403
3-C0404Q-X(P)	0.042	Main Depot	C0404
3-C0405Q-X(P)/RD	0.042	Main Depot	C0405
3-C0406Q-X(P)/RD	0.042	Main Depot	C0406
3-C0407Q-X(P)/RD	0.042	Main Depot	C0407
3-C0408Q-X(P)/RD	0.042	Main Depot	C0408
3-C0409Q-X(P)	0.042	Main Depot	C0409
3-C0410Q-X(P)	0.042	Main Depot	C0410
3-C0411Q-X(P)	0.042	Main Depot	C0411
3-C0412Q-X(P)	0.042	Main Depot	C0412
3-C0501Q-X(P)/RD	0.042	Main Depot	C0501
3-C0502Q-X(P)	0.042	Main Depot	C0502
3-C0503Q-X(P)/RD	0.042	Main Depot	C0503
3-C0504Q-X(P)/RD	0.042	Main Depot	C0504
3-C0505Q-X(P)/RD	0.042	Main Depot	C0505
3-C0506Q-X(P)	0.042	Main Depot	C0506
3-C0507Q-X(P)	0.042	Main Depot	C0507
3-C0508Q-X(P)/RD	0.042	Main Depot	C0508
132-C0509Q-X(P)	0.042	Main Depot	C0509
3-C0510Q-X(P)/RD	0.042	Main Depot	C0510
3-C0511Q-X(P)/RD	0.042	Main Depot	C0511
3-C0512Q-X(P) ·	. 0.042	Main Depot	C0512
3-C0513Q-X(P)/RD	0.042	Main Depot	C0513
3-C0601Q-X(P)	0.042	Main Depot	C0601
3-C0602Q-X(P)	0.042	Main Depot	C0602
3-C0603Q-X(P)/RD	. 0.042	Main Depot	C0603
3-C0604Q-X(P)/RD	0.042	Main Depot	C0604
3-C0605Q-X(P)/RD	0.042	Main Depot	C0605
3-C0606Q-X(P)/RD	0.042	Main Depot	C0606
3-C0607Q-X(P)	0.042	Main Depot	C0607
3-C0608Q-X(P)/RD	0.042	Main Depot	C0608
3-C0609Q-X(P)	0.042	Main Depot	C0609
3-C0610Q-X(P)	0.042	Main Depot	C0610
3-C0611Q-X(P)	0.042	Main Depot	C0611
3-C0701Q-X(P)	0.042	Main Depot	C0701
3-C0702Q-X(P)	0.042	Main Depot	C0702
3-C0703Q-X(P)	0.042	Main Depot	C0703
3-C0704Q-X(P)	0.042	Main Depot	C0704
3-C0705Q-X(P).	0.042	Main Depot	C0705
3-C0706Q-X(P)	0,042	Main Depot	C0706
3-C0707Q-X(P)	0.042	Main Depot	C0707

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
3-D0207Q-X(P)/RD	0.042	Main Depot	D0207
3-D0208Q-X(P)	0.042	Main Depot	D0208
3-D0209Q-X(P)	0.042	Main Depot	D0209
3-D0210Q-X(P)	0.042	Main Depot	D0210
3-D0211Q-X(P)	0.042	Main Depot	D0211
3-D0212Q-X(P)	0.042	Main Depot	D0212
3-D0301Q-X(P)	0.042	Main Depot	D0301
3-D0302Q-X(P)	0.042	Main Depot	D0302
3-D0303Q-X(P)	0.042	Main Depot	D0303
3-D0304Q-X(P)	0.042	Main Depot	D0304
3-D0305Q-X(P)/RD	0.042	Main Depot	D0305
3-D0306Q-X(P)/RD	0.042	Main Depot	D0306
3-D0307Q-X(P)	0.042	Main Depot	D0307
3-D0308Q-X(P)	0.042	Main Depot	D0308
3-D0309Q-X(P)	0.042	Main Depot	D0309
3-D0310Q-X(P)	0.042	Main Depot	D03,10
3-D0311Q-X(P)	0.042	Main Depot	D0311
3-D0312Q-X(P)/RD	0.042	Main Depot	D0312
3-D0313Q-X(P)	0.042	Main Depot	D0313
3-D0401Q-X(P)/RD	0.042	Main Depot	D0401
3-D0402Q-X(P)	0.042	Main Depot	D0402
3-D0403Q-X(P)	0.042	Main Depot	D0403
3-D0404Q-X(P)	0.042	Main Depot	D0404
3-D0405Q-X(P)	0.042	Main Depot	D0405
3-D0406Q-X(P)/RD	0.042	Main Depot	D0406
3-D0407Q-X(P)/RD	0.042	Main Depot	D0407
3-D0408Q-X(P)	0.042	Main Depot	D0408
3-D0409Q-X(P)	0.042	Main Depot	D0409
3-D0410Q-X(P)	0.042	Main Depot	D0410
3-D0411Q-X(P)	0.042	Main Depot	D0411
3-D0412Q-X(P)	0.042	Main Depot	D0412
3-D0413Q-X(P)	0.042	Main Depot	D0413
3-D0501Q-X(P)	0.042	Main Depot	D0501
3-D0502Q-X(P)	0.042	Main Depot	D0502
3-D0503Q-X(P)	0.042	Main Depot	D0503
3-D0504Q-X(P)	0.042	Main Depot	D0504
3-D0505Q-X(P)	0.042	Main Depot	D0505
3-D0506Q-X(P)	0.042	Main Depot	D0506
3-D0507Q-X(P)	0.042	Main Depot	D0507
3-D0508Q-X(P)	0.042	Main Depot	D0508
3-D0509Q-X(P) ·	0.042	Main Depot	D0509
3-D0510Q-X(P)	0.042	Main Depot	D0510
3-D0511Q-X(P)	0.042	Main Depot	D0511

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL		AREA	NUMBER
3-E0106Q-X(P)	0.055	Main Depot	E0106 .
3-E0107Q-X(P)	0.055	Main Depot	E0107
3-E0108Q-X(P)	0.055	Main Depot	E0108
3-E0109Q-X(P)	0.055	Main Depot	E0109
3-E0110Q-X(P)	0.055	Main Depot	E0110
3-E0111Q-X(P)	0.055	Main Depot	E0111
3-E0112Q-X(P)/RD	0.055	Main Depot	E0112
3-E0113Q-X(P)	0.055	Main Depot	E0113
3-E0114Q-X(P)	0.055	Main Depot	E0114
3-E0201Q-X(P)	0.055	Main Depot	E0201
3-E0202Q-X(P)	0.055	Main Depot	E0202
3-E0203Q-X(P)	0.055	Main Depot	E0203
3-E0204Q-X(P)	0.055	Main Depot	E0204
3-E0205Q-X(P)	0.055	Main Depot	E0205
3-E0206Q-X(P)	0.055	Main Depot	E0206
3-E0207Q-X(P)	0.055	Main Depot	E0207
3-E0208Q-X(P)	0.055	Main Depot	E0208
3-E0209Q-X(P)	0.055	Main Depot	E0209
3-E0210Q-X(P)	0.055	Main Depot	E0210
3-E0211Q-X(P)/RD	0.055	Main Depot	E0211
3-E0212Q-X(P)	0.055	Main Depot	E0212
3-E0213Q-X(P)	0.055	Main Depot	E0213
3-E0214Q-X(P)	0.055	Main Depot	E0214
3-E0301Q-X(P)/RD	0.055	Main Depot	E0301
3-E0302Q-X(P)/RD	0.055	Main Depot	E0302
3-E0303Q-X(P)/RD	0.055	Main Depot	E0303
3-E0304Q-X(P)	0.055	Main Depot	E0304
3-E0305Q-X(P)	0.055	Main Depot	E0305
3-E0306Q-X(P)	0.055	Main Depot	E0306
3-E0307Q-X(P)	0.055	Main Depot	E0307
3-E0308Q-X(P)	0.055	Main Depot	E0308
3-E0309Q-X(P)	0.055	Main Depot	E0309
3-E0310Q-X(P) ·	0.055	Main Depot	E0310
3-E0311Q-X(P)	0.055	Main Depot	E0311
3-E0312Q-X(P)/RD	0.055	Main Depot	E0312
3-E0313Q-X(P)	0.055	Main Depot	E0313
3-E0401Q-X(P)	0.055	Main Depot	E0401
3-E0402Q-X(P)/RD	0.055	Main Depot	E0402
3-E0403Q-X(P)	0.055	Main Depot	E0403
3-E0404Q-X(P)	0.055	Main Depot	E0404
3-E0405Q-X(P)	0.055	Main Depot	E0405
3-E0406Q-X(P)	0.055	Main Depot	E0406
3-E0407Q-X(P)	0.055	Main Depot	E0407

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QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
5-2401Q-A/L(P)	0.062	Lake Housing	2401
5-2402Q-L(P)	0.014	Lake Housing	2402
5-2403Q-A/L(P)	0.042	Lake Housing	2403
5-2404Q-A/L(P)	0.050	Lake Housing	2404
5-2405Q-L(P)	0.014	Lake Housing	2405
5-2406Q-A/L(P)	0.051	Lake Housing	2406
5-2407Q-A(P)/L(P)	0.014	Lake Housing	2407 •
5-2408Q-A/L(P)	0.094	Lake Housing	2408
5-2410Q-A/L(P)	0.086	Lake Housing	2410
5-2411Q-A/L(P)	0.058	Lake Housing	2411
5-2412Q-A/L(P)	0.024	Lake Housing	2412
5-2413Q-L(P)	0.010	Lake Housing	2413
5-2414Q-A/L(P)	0.045	Lake Housing	2414
5-2415Q-A/L(P)	0.024	Lake Housing	2415
5-2416Q-L(P)	0.008	Lake Housing	2416
5-2417Q-L(P)	0.009	Lake Housing	2417
5-2418Q-A/L(P)	0.018	Lake Housing	2418
5-2419Q-A/L(P)	0.030	Lake Housing	2419
5-2420Q-L(P)	0.006	Lake Housing	2420
5-2421Q-A/L(P)	0.040	Lake Housing	2421
5-2423Q-A/L(P)	0.030	Lake Housing	2423
5-2424Q-L(P)	0.014	Lake Housing	2424
5-2425Q-A/L(P)	0.028	Lake Housing	2425
5-2426Q-A/L(P)	0.022	Lake Housing	2426
5-2427Q-A/L(P)	0.021	Lake Housing	2427
5-2428Q-L(P)	0.008	Lake Housing	2428
5-2429Q-A/L(P)	0.023	Lake Housing	2429
5-2430Q-L(P)	0.007	Lake Housing	2430
5-2431Q-L(P)	0.008	Lake Housing	2431
5-2432Q-A/L(P)	0.034	Lake Housing	2432
5-2433Q-L(P)	0.009	Lake Housing	2433
5-2434Q-A/L(P)	0.003	Lake Housing	2434
5-2436Q-L(P)	0.005	Lake Housing	2436
5-2437Q-A/L(P)	0.042	Lake Housing	2437
129-2438Q-A/L(P)	0.027	Lake Housing	2438
5-2439Q-A(P)/L(P)	0.008	Lake Housing	2439
5-2441Q-A/L(P)	0.024	Lake Housing	2441
5-2443Q-A/L(P)	0.028	Lake Housing	2443
5-2444Q-L(P)	0.011	Lake Housing	2444
5-2445Q-A(P)	0.021	Lake Housing	2445
5-2446Q-A/L(P)	0.027	Lake Housing	2446
5-2447Q-L(P)	0.009	Lake Housing	2447
5-2448Q-A/L(P)	0.029	Lake Housing	2448

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING "
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
21-214Q-A/L(P)	0.044	South Depot	214
21-215Q-A/L(P) .	0.041	South Depot	215
21-216Q-A/L(P)	0.041	South Depot	216
21-217Q-A/L(P)	0.046	South Depot	217
21-200AQ-A/L(P)	0.035	South Depot	200-A
21-200BQ-A/L(P)	0.035	South Depot	200-B
21-201AQ-A/L(P)	0.035	South Depot	201-A
21-201BQ-A/L(P)	0.035	South Depot	201-B
21-208AQ-A/L(P)	0.059	South Depot	208-A
21-208BQ-A/L(P)	0.059	South Depot	208-B
21-209AQ-A/L(P)	0.059	South Depot	· · 209-A
21-209BQ-A/L(P)	0.059	South Depot	209-В
21-210AQ-A/L(P)	0.040	South Depot	210-A
21-210BQ-A/L(P)	0.040	South Depot	210-B
21-211AQ-A/L(P)	0.037	South Depot	211-A
21-211BQ-A/L(P)	0.037	South Depot	211-B
135-212AQ-L(P)	0.040	South Depot	212-A
135-212BQ-L(P)	0.040	South Depot	212-B
21-213AQ-A/L(P)	0.037	South Depot	213-A
21-213BQ-A/L(P)	0.037	South Depot	213-B
21-218AQ-A/L(P)	0.037	South Depot	218-A
21-218BQ-A/L(P)	0.037	South Depot	218-B
21-219AQ-A/L(P)	0.040	South Depot	· 219-A
21-219BQ-L(P)	0.040	South Depot	219-B
21-221AQ-A/L(P)	0.037	South Depot	221-A
21-221BQ-A/L(P)	0.037	South Depot	221-B
21-222AQ-A/L(P)	0.040	South Depot	222-A
21-222BQ-A/L(P)	0.040	South Depot	222-B
21-223AQ-A/L(P)	0.037	South Depot	223-A
21-223BQ-A/L(P)	0.037	South Depot	223-В
21-224AQ-A/L(P)	0.030	South Depot	224-A
21-224BQ-L(P)	. 0.030	South Depot	224-B
21-224CQ-A/L(P)	0.030	. South Depot	224-C
21-224DQ-L(P)	0.030	South Depot	224-D
21-225AQ-L(P)	0.030	South Depot	225-A
21-225BQ-L(P)	0.030	South Depot	225-B
21-225CQ-A/L(P)	0.030	South Depot	225-C
21-225DQ-A/L(P)	0.030	South Depot	225-D
21-226AQ-A/L(P)	0.030	South Depot	226-A
21-226BQ-A/L(P)	0.030	South Depot	226-B
21-226CQ-A/L(P)	0.030	South Depot	226-C
21-226DQ-A/L(P)	0.030	South Depot	226-D
21-227AQ-A/L(P)	0.030	South Depot	227-A

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING NUMBER		
NUMBER AND LABEL	SIZE (ACRES)	AREA			
21-238AQ-A/L(P)	0.030	South Depot	238-A		
21-238BQ-A/L(P)	0.030	South Depot	238-B		
21-238CQ-A/L(P)	0.030	South Depot	238-C		
21-238DQ-A/L(P)	0.030	South Depot	238-D		
21-239AQ-L(P)	0.030	South Depot	239-A		
21-239BQ-A/L(P)	0.030	South Depot	239-B		
21-239EQ-A/L(P)	0.030	South Depot	239-C		
	0.030	South Depot	239-D		
21-239DQ-A/L(P)	0.030	South Depot	240-A		
21-240AQ-A/L(P)	0.030	South Depot	240-A		
21-240BQ-A/L(P)		South Depot	240-B		
21-240CQ-A/L(P)	0.030				
21-240DQ-A/L(P)	0.030	South Depot	240-D		
21-241AQ-A/L(P)	0.030	South Depot	241-A		
21-241BQ-A/L(P)	0.030	South Depot	241-B		
21-241CQ-A/L(P)	0.030	South Depot	241-C		
21-241DQ-A/L(P)	0.030	South Depot	241-D		
21-242AQ-A/L(P)	0.030	South Depot	242-A		
21-242BQ-A/L(P)	0.030	South Depot	242-B		
21-242CQ-A/L(P)	0.030	South Depot	242-C		
21-242DQ-A/L(P)	0.030	South Depot	242-D		
21-243AQ-A/L(P)	0.034	South Depot	243-A		
21-243BQ-A/L(P)	0.034	South Depot	243-B		
21-243CQ-A/L(P)	0.034	South Depot	243-C		
21-243DQ-A/L(P) ·	• 0.034	South Depot	243-D		
21-244AQ-L(P)	0.034	South Depot	244-A		
21-244BQ-L(P)	0.034	South Depot	244-B		
21-244CQ-A/L(P)	0.034	South Depot	244-C		
21-244DQ-L(P)	0.034	South Depot	244-D		
21-245AQ-A/L(P)	0.034	South Depot	245-A		
21-245BQ-L(P)	0.034	South Depot	245-B		
21-245CQ-L(P)	0.034	South Depot	245-C		
21-245DQ-L(P)	0.034	South Depot	245-D		
22-101Q-A/L(P)	0.339	South Depot	101		
23-103Q-A/L(P)	0.265	· South Depot	103		
24-118Q-L(P)	0.435	South Depot	118		
24-120Q-A/L(P)	0.009	South Depot	120		
25-117Q-A/L(P)	0.456	South Depot	117		
27-106Q-A/L(P)	0.254	South Depot	106		
28-114Q-L(P)	0.277	South Depot	114		
30-113Q-A/L(P)	0.379	South Depot	113		
31-312Q-L(P) .	0.275	South Depot	312		
32-800Q-A	0.029	North Depot	800		
33-729Q-A/L(P)	0.106	North Depot	729		

QUALIFIED PARCEL	APPROXIMATE	GEOGRAPHIC	BUILDING
NUMBER AND LABEL	SIZE (ACRES)	AREA	NUMBER
82-S361Q-L(P)/X(P)	0.039	Main Depot	S361
84-306Q-L(P)/X(P)/RD	0.124	Main Depot	306
84-308Q-L(P)	0.012	Main Depot	308
86-135Q-A/L(P)	0.115	South Depot	135
87-121Q-L(P)	0,075	South Depot	121
88-127Q-L(P)	0.141	South Depot	127
92-5Q-L(P)/X(P)/RD	0.270	Main Depot	5
92-6Q-A/L(P)	0.014	Main Depot	6
92-7Q-L(P)/X(P)	0.270	Main Depot	7
92-9Q-L(P)	0.019	Main Depot	9
92-12Q-L(P)	0.019	Main Depot	12
94-4Q-L(P)	0.012	Main Depot	4
98-801Q-A(P)/L(P)	0.000	Special Weapons	801
98-802Q-L(P)	0.120	Special Weapons	. 802
98-803Q-L(P)/X(P)/RD	0.064	Special Weapons	803
98-804Q-A/L(P)/X(P)/RD	0.031	Special Weapons	804
98-805Q-L(P)	0.010	Special Weapons	805
98-806Q-A/L(P)	0.092	Special Weapons	806
98-807Q-A/L(P)	0.092	Special Weapons	807
98-809Q-L(P)	0.004	Special Weapons	809
98-810Q-A/L(P)/RD	0.872	Special Weapons	810
98-812Q-A/L(P)	0.245	Special Weapons	812
98-813Q-L(P)/X(P)	0.100	Special Weapons	813
98-814Q-A/L(P)/X(P)	- 0.082	Special Weapons	814
98-815Q-L(P)/X(P)/RD	0.254	Special Weapons	815
98-816Q-L(P)/X(P)/RD	0.353	Special Weapons	816
98-817Q-A/L(P)/X(P)	0.022	Special Weapons	817
98-819Q-A/L(P)/X(P)/RD	0.190	Special Weapons	819
98-823Q-A(P)/L(P)/X(P)	0.002	Special Weapons	823
98-824Q-L(P)	0.090	Special Weapons	824
98-825Q-L(P)	0.092	Special Weapons	825
98-A0101Q-X(P)/RD	0.028	Special Weapons	A0101
98-A0102Q-X(P)/RD	0.028	Special Weapons	A0102
100-747Q-RD	0.200	North Depot	747
101-718Q-L(P)	0.074	North Depot	718
102-716Q-L(P)	0,003	North Depot	716
104-2104Q-A/L(P)	0.030	Main Depot	2104
104-2105Q-L(P)	0.492	OB/OD Grounds	2105
104-2106Q-A/L(P)/X(P)	0.013	OB/OD Grounds	2106
104-2107Q-L(P)/X(P)	0.001	OB/OD Grounds	2107
104-2110Q-L(P) ·	0.492	OB/OD Grounds	2110
106-2131Q-L(P)	0,005	Main Depot	2131
108-335Q-A(P)/L(P)	0,088	Warehouse	335

QUALIFIED PARCEL NUMBER AND LABEL®	APPROXIMATE SIZE (ACRES)	GEOGRAPHIC AREA	BUILDING NUMBER	
114Q-X	2.900	Airfield	Airfield Firing Range	
115Q-X	0.814	Airfield	Airfield Skeet Range	
116Q-X	178.840	Main Depot	SEAD-4 and other areas	
117Q-X	16.208	Main Depot	Munitions Burial Area	
118Q-RD	72.790	Main Depot	Pitchblend Storage Igloos	
119Q-X	0.660	Main Depot	Firing Range near Ovid Road	
120Q-X	3.720	Main Depot	Material Proof Area	
121Q-X	1.620	Main Depot	Material Proof Area	
122Q-X ·	8.070	Duck Ponds	Small Arms Range	
123Q-RD	334.790	Special Weapons	Special Weapons Area	
124Q-RD	15.790	Special Weapons	Special Weapons Area	
125Q-X	0,250	North Depot	Firing Range in Building 744	
126Q-RD	3.640	Special Weapons	SEAD-63	
127Q-X	1,055.650	OB/OD Grounds	OB/OD Grounds	
128Q-X			Abandoned Powder Burning Pit	

Notes:

BRAC parcel label definitions are as follows:

PS = petroleum storage

PR = petroleum release or disposal HS = hazardous substance storage

HR = hazardous substance release or disposal

Qualified parcel label definitions are as follows:

A = asbestos containing material

L = lead-based paint

P = polychlorinated biphenyls

R = radon

X = UXO and/or ordnance fragments

RD = radionuclides (P) = possible (unverified)

SENECA ARMY DEPOT ACTIVITY, NEW YORK

ENVIRONMENTAL CONDITION CATEGORY NUMBER	TOTAL ACREAGE	ACREAGE MINUS QUALIFIED ACREAGE	TOTAL QUALIFIED ACREAGE	ACM- QUALIFIED ACREAGE	LBP- QUALIFIED ACREAGE	PCB- QUALIFIED ACREAGE	RADON- QUALIFIED ACREAGE	UXO- QUALIFIED ACREAGE	RADIONICLIDE - QUALIFIED ACREAGE
	8,666.19	8,556.70	109.49	52.12	56.84	0.02	0.38	55.82	7 38
2	18.76	17.67	1.09	0 27	1.09	0.00	0.00	0.00	0 00
. 3	19 15	1.44	17.71	17 66	17.62	0.00	0 00	2.11	0 00
4	0 00	0 00	0.00	0 00	0.00	0.00	0.00	0.00	0 00
5	201.56	112.11	89 45	0.07	0.07	0.00	0 00	0 07	89 18
6	1,715.49	128.65	1,586 84	2.69	6.44	0.00	0 00	1,244 80	341 48
7	12.85	12.76	0.09	0 09	0.09	0.00	0 00	0 00	0 00
Total	10,634	8,829.33	1,80467	72.90	82.15	0 02	0.38_	1,303 34	438 04

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VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: SENECA ARMY DEPOT BLDG357

Facility City/Zip

: ROMULUS, NY

Facility County.

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA # : 2736221

State Spill Record Details

Agency ID Number:9313511

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Spill Details

Incident Date:

02/17/94

Substance: HAZARDOUS

Quantity: 3.00

Media Affected:

SOIL/LAND/SAND

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9200414

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Resp. City:

ROMULUS

Spill Details

Incident Date:

04/10/92

Substance:

HAZARDOUS

Quantity:

2.00 GALLONS

Media Affected:

SOIL/LAND/SAND

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	0
	0
	•
	•

SENECA ARMY DEPOT (continued)

Spill Cause: H

HUMAN ERROR

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9405377

Spill Details

Incident Date:

05/18/94

Substance:

PETROLEUM

Media Affected:

GROUNDWATER

Spill Cause:

OTHER CAUSE

Remediation Status:

CASE OPEN

State Spill Record Details

Agency ID Number:9405376

Spill Details

Incident Date:

07/14/93

Substance:

FUEL OIL #2

Media Affected:

GROUNDWATER

Spill Cause:

OTHER CAUSE

Remediation Status:

CASE OPEN

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT-BLDG 4 & 715

Facility Address

: SENECA ARMY DEPOT

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: SENECA

VISTA #

: 5050621

State Spill Record Details

Agency ID Number:9312597

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Spill Details

Incident Date:

01/25/94

Substance:

HAZARDOUS

Quantity:

18.00 GALLONS

Media Affected:

SOIL/LAND/SAND

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: SENECA ARMY DT BLDG 349

Facility City/Zip

: ROMULUS, NY

Facility County

: SENECA

VISTA Enhanced

City/Zip

: ROMULUS , 14541

VISTA # : 2736222

State Spill Record Details

Agency ID Number:8904332

Owner Information

Resp. Name:

US ARMY DEPOT

Resp. City:

ROMULUS NY

Spill Details

Incident Date:

07/31/89

Substance:

UNKNOWN

Media Affected:

SURFACE WATER

Spill Cause:

UNKNOWN

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

Waterway:

KENDIA CREEK

State Spill Record Details

Agency ID Number:8604874

Owner Information

Resp. Name:

SENECA ARMY DEPOT

Spill Details

Incident Date:

10/30/86

Substance:

FUEL OIL #6

Quantity:

5.00 GALLONS

Media Affected:

SOIL/LAND/SAND

SENECA ARMY DEPOT (continued)

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

LUST Record Details

Agency ID Number:8904332

Owner Information

Resp. Name: US ARMY DEPOT

Resp. City: ROMULUS NY

LUST Details

Leak Date: 06/11/92

Substance: FUEL OIL #2

Media Affected: GROUNDWATER

Leak Source: . NON-COMMERCIAL INDUSTRY

Remed. Status: CASE OPEN

State Spill Record Details

Agency ID Number:9203242

Owner Information

Resp. Name: UNITED STATES ARMY

Spill Details

Incident Date: 03/23/92

Substance: JET FUEL

Quantity: 15.00 GALLONS

Media Affected: SOIL/LAND/SAND

Spill Cause: MECHANICAL FAILURE/EQUIPM

Remediation Status: CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9112997

Owner Information

Resp. Name: SENECA ARMY DEPOT

Resp. Address: BUILDING 319

Resp. City: ROMULUS, NY

Spill Details

Incident Date: 03/18/92

Substance: HAZARDOUS

SENECA ARMY DEPOT (continued)

Quantity:

3.00 GALLONS

Media Affected:

SOIL/LAND/SAND

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9112897

Owner Information

Resp. Name:

U.S. ARMY

Spill Details

Incident Date:

02/19/92

Substance:

FUEL OIL #6

Quantity:

30.00 GALLONS

Media Affected:

STREET/GUTTER/SEWER

Spill Cause:

MECHANICAL FAILURE/EQUIPM

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

State Spill Record Details

Agency ID Number:9111882

Spill Details

Incident Date:

12/10/91

Substance:

NON-PCB OIL

Quantity:

5.00 GALLONS

Media Affected:

Spill Cause:

SOIL/LAND/SAND HUMAN ERROR

Remediation Status:

CASE CLOSED/CLEANUP COMPLETE

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: W. SMITH FARM ROAD

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: SENECA CO

VISTA #

: 3860870

FINDS Record Details EPA ID Number:NY8971520830

Agency Id Information

Program Name: TOXICS-CUS

General Records Found Under Site Description

Facility Name

: US COAST GUARD STATION SENECA

Facility Address

: US ARMY DEPOT

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA #

: 3699526

RCRA Record Details

EPA ID Number: NY6690331404

Generator Details

Waste Quantity Class:

Generates at least 1000 kg./month of non-acutely hazardous waste (or 1

kg./month of acutely hazardous waste).

FINDS Record Details

EPA ID Number: NY6690331404

Agency Id Information

Program Name:

Haz Waste

Agency Id:

NY6690331404

Program Name:

Fed Activities

Agency Id:

NY-690331404

Compliance Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: RTE 96

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA #

: 1340589

EPA ID: NY0213820830

RCRA COMPLIANCE INFORMATION

RCRA compliance evaluations are conducted by the US EPA or the state agency responsible for the RCRA program. The following is a summary of the facility's current compliance status and a listing of all RCRA evaluations. The current compliance status indicates any outstanding (not yet corrected) non-compliances issues found during one of the listed evaluations or after appropriate testing is completed by the agency.

RCRA Compliance Status: Handler has the following outstanding non-compliance issues

TSD-CLOSURE/POST CLOSURE REQUIREMENTS

RCRA Compliance History:

Evaluations with at least one Class One Violation: 0

Evaluations

None

Violations

None

EPA Enforcements

None

State Enforcements

None

EPA Oversight Enforcements

None

CORRECTIVE ACTIONS INFORMATION

In the Hazardous and Solid Waste Amendments of 1984, Congress proposed stringent corrective action requirements on TSD facilities. Corrective actions are required for all current or past releases of hazardous waste and constituents regardless of when the waste was treated or disposed of. If necessary, corrective actions may extend beyond a facility's boundary. Corrective Action requirements are usually included in the operating permit or modifications. Other instruments may be used for non-operating facilities.

EPA ID:

Prioritization Status: HIGH as of 12/08/92

Instruments:

STATE OTHER

Details

Effective Date: 11/19/80

Issuance Date: N/A

Revocation Date: N/A Resp. Program: RCRA

Legal Authority: RCRA 3004(U) OR EQUIVALENT

Related Area: SITE-WIDE

• Required Event:

Event Type: STABILIZATION MEASURES EVALUATION

Agency: STATE
Actual Date: 09/30/93

Resp. Program: RCRA

Events Not Related To Specific Instruments:

• Event Type:

RCRA FACILITY ASSESSMENT COMPLETED

Agency:

EPA

Actual Date:

09/22/88

Resp. Program:

RCRA

• Event Type:

DETERMINATION OF NEED FOR AN RCRA

FACILITY INVESTIGATION: RCRA FACILITY

INVESTIGATION IS NECESSARY

Agency:

EPA

Actual Date:

07/23/88

Resp. Program:

N/A

• Event Type:

CA PRIORITIZATION: FACILITY WAS

ASSIGNED A HIGH CORRECTIVE ACTION

PRIORITY

Agency:

EPA

Actual Date:

12/08/92

Resp. Program:

N/A

• Event Type:

RCRA FACILITY INVESTIGATION IMPOSI-

TION

Agency:

EPA

Actual Date:

07/13/89

Resp. Program:

N/A

• Event Type:

STABILIZATION MEASURES IMPLEMENTED

Agency:

EPA

Actual Date:

05/26/94

Resp. Program:

N/A

Compliance Records Found Under Site Description

Facility Name

: USCG - LORAN C STATION SENECA

Facility Address

: SENECA ARMY DEPOT

Facility City/Zip

: ROMULUS, NY 14541

Facility County .

: NOT REPORTED

VISTA #

: 3699526

EPA ID: NY6690331404

RCRA COMPLIANCE INFORMATION

RCRA compliance evaluations are conducted by the US EPA or the state agency responsible for the RCRA program. The following is a summary of the facility's current compliance status and a listing of all RCRA evaluations. The current compliance status indicates any outstanding (not yet corrected) non-compliances issues found during one of the listed evaluations or after appropriate testing is completed by the agency.

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Handler has the following outstanding non-compliance issues

TSD-CLOSURE/POST CLOSURE REQUIREMENTS

RCRA Compliance History:

Evaluations with at least one Class One Violation: 0

Evaluations

None

Violations

None

EPA Enforcements
None

State Enforcements
None

EPA Oversight Enforcements None

CORRECTIVE ACTIONS INFORMATION

In the Hazardous and Solid Waste Amendments of 1984, Congress proposed stringent corrective action requirements on TSD facilities. Corrective actions are required for all current or past releases of hazardous waste and constituents regardless of when the waste was treated or disposed of. If necessary, corrective actions may extend beyond a facility's boundary. Corrective Action requirements are usually included in the operating permit or modifications. Other instruments may be used for non-operating facilities.

EPA ID: NYD002208437

Prioritization Status: N/A

Instruments:

None

General Records Found Under Site Description

Facility Name : SENECA ARMY DEPOT

Facility Address : SDSSE-AD

Facility City/Zip : ROMULUS, NY 14541

Facility County : SENECA VISTA # : 1340589

CERCLIS Record Details

GENERAL INFORMATION

EPA ID: NY0213820830

EPA Region: 02

Congressional District: 31

Federal Facility: FEDERAL FACILITY

Federal Facility Docket: SITE IS INCLUDED ON THE DOCKET

Facility Ownership: FEDERALLY OWNED
Site Incident Category: FEDERAL FACILITY

Incident Type: NOT REPORTED

Site Description: SEAD CONDUCTS DEPOT LEVEL MAINTENNC,

DEMILITARZN, & SURVEILLANCE ON CONVENTL AMMUNITION & SPCL WEAPONS WHCH REQUIRE SEADTO RECEIVE, INSPCT, TST, CLASSFY, RE-HABLT AS REQUIRD, STORE, PRESRV, & ISSUE IND PLT EQUIPMNT; PROV LOGSTC SUPP & TRN ASS

NPL Status: CURRENTLY ON FINAL NPL

Proposed NPL Update: 09
Final NPL Update: 00
Financial Mgmt Sys ID: 021H

Latitude: 42450000 Longitude: 076511602

Lat/Long Source: GENERATED BY THE EPIC DATABASE

Lat/Long Accuracy: NOT REPORTED

Dioxin Tier: NOT REPORTED

USGS Hydro Unit: 04140201

RCRA Indicator: YES (RCRA FACILITY)

ALIAS INFORMATION

Alias ID: 01

Alias EPA ID: NY0213820830

Alias Name: 01

Alias Street: RTE 96A

Alias City, State Zip: SENECA, NY 14541

Alias Latitude: 4243506 Alias Longitude: 07650253

Alias Description: NOT REPORTED

ENFORCEMENT INFORMATION

Event: INTERAGENCY NEGOTIATIONS

Lead Agency: FEDERAL ENFORCEMENT

Actual Start Date: NOT REPORTED

Actual Completion Date: 09/28/90

Event: FEDERAL INTERAGENCY AGMT

Lead Agency: FEDERAL ENFORCEMENT

Actual Start Date: NOT REPORTED

Actual Completion Date: 09/28/90

Site Assessment History

OPERABLE UNIT

Unit ID: 00

Unit Name: SITE EVALUATION/DISPOSITION

The following is a list of events related to this Operable Unit:

Event

Type: DISCOVERY

Category: NOT REPORTED

Plan Status: NOT REPORTED

Lead Agency: EPA FUND-FINANCED

Actual Start Date: NOT REPORTED

Actual Completion Date: 11/01/73

Qualifier: NOT REPORTED

Event

Type: PRELIMINARY ASSESSMENT

Category: NOT REPORTED
Plan Status: NOT REPORTED

Lead Agency: FEDERAL FACILITIES

Actual Start Date: 05/20/88 Actual Completion Date: 06/20/88

Qualifier: LOWER PRIORITY

Event

Type: SCREENING SITE INSPECTION

Category: NOT REPORTED
Plan Status: NOT REPORTED

Lead Agency: FEDERAL FACILITIES

Actual Start Date: 05/20/88
Actual Completion Date: 06/20/88

Qualifier: HIGHER PRIORITY

Event

Type: PROPOSED FOR NPL

Category: NOT REPORTED
Plan Status: NOT REPORTED

Event Continued

Lead Agency:

EPA FUND-FINANCED

Actual Start Date:

NOT REPORTED

Actual Completion Date:

07/14/89

Qualifier:

NOT REPORTED

Event

Type:

FINAL LISTING ON NPL

Category:

NOT REPORTED

Plan Status:

NOT REPORTED

Lead Agency:

EPA FUND-FINANCED

Actual Start Date:

NOT REPORTED

Actual Completion Date:

08/30/90

Qualifier:

NOT REPORTED

Event

Type:

FINAL LISTING ON NPL

Category:

NOT REPORTED

Plan Status:

NOT REPORTED

Lead Agency:

EPA FUND-FINANCED

Actual Start Date:

NOT REPORTED

Actual Completion Date:

08/30/90

Qualifier:

NOT REPORTED

OPERABLE UNIT

Unit ID:

01

Unit Name:

ASH LANDFILL

The following is a list of events related to this Operable Unit:

Event

Type:

REMEDIAL ACTION

Category:

NOT REPORTED

Plan Status:

ALTERNATE

Lead Agency:

FEDERAL FACILITIES

Actual Start Date:

NOT REPORTED

Actual Completion Date:

NOT REPORTED

Qualifier:

NOT REPORTED

Event

Type: REMEDIAL DESIGN

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED

al Completion Date. NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: COMBINED RI/FS

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: 03/19/90

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Financial Type: TES/ESS TASKING

Financial Date: 08/89

Financial Amount: \$25,000

Financial Type: TES/ESS TASKING

Financial Date: 11/89 Financial Amount: \$4,187

Financial Type: TES/ESS TASKING

Financial Date: 04/90 Financial Amount: \$15,000

Event Continued

Financial Type: TES/ESS TASKING

Financial Date: 12/90 Financial Amount: \$20,000

Financial Type: TES/ESS TASKING

Financial Date: 06/91
Financial Amount: \$120,000

Financial Type: TES/ESS TASKING

Financial Date: 08/92 Financial Amount: \$147,851

Financial Type: TES/ESS TASKING

Financial Date: 11/93 Financial Amount: \$22,403

Event

Type: REMOVAL ACTION

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: 09/09/94

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 02

Unit Name: OB/OD GROUNDS

The following is a list of events related to this Operable Unit:

Event

Type: REMEDIAL ACTION

Category: NOT REPORTED

Plan Status: ALTERNATE

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: COMBINED RI/FS

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: 04/29/91

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 03

Unit Name: NOT REPORTED

The following is a list of events related to this Operable Unit:

Event

Type: COMBINED RI/FS

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Event Continued

Qualifier: NOT REPORTED

Financial Type: TES/ESS TASKING

Financial Date: 02/94 Financial Amount: \$35,000

Financial Type: ACTUAL OBLIGATION

Financial Date: 09/94 Financial Amount: \$120,000

Event

REMEDIAL ACTION Type:

NOT REPORTED Category:

Plan Status: ALTERNATE

FEDERAL FACILITIES · Lead Agency:

Actual Start Date: NOT REPORTED NOT REPORTED Actual Completion Date:

> Qualifier: NOT REPORTED

Event

REMEDIAL DESIGN Type:

NOT REPORTED Category: NOT REPORTED

Plan Status:

Lead Agency: FEDERAL FACILITIES NOT REPORTED Actual Start Date:

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

RECORD OF DECISION Type:

NOT REPORTED Category:

Plan Status: ALTERNATE

Lead Agency: EPA FUND-FINANCED

Actual Start Date: NOT REPORTED NOT REPORTED Actual Completion Date:

Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 04

Unit Name: NOT REPORTED

The following is a list of events related to this Operable Unit:

Event

Type: COMBINED RI/FS

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: REMEDIAL ACTION

Category: NOT REPORTED

Plan Status: ALTERNATE

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN

Category: NOT REPORTED

Plan Status: ALTERNATE

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION

Category: NOT REPORTED
Plan Status: ALTERNATE

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Event Continued

Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 05

Unit Name: NOT REPORTED

The following is a list of events related to this Operable Unit:

Event

Type: COMBINED RI/FS

Category: NOT REPORTED

Plan Status: PRIMARY

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: REMEDIAL ACTION

Category: NOT REPORTED

Plan Status: ALTERNATE

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN

Category: NOT REPORTED

Plan Status: ALTERNATE

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

. Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION

Category: NOT REPORTED
Plan Status: ALTERNATE

Event Continued

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: NOT REPORTED

Qualifier: NOT REPORTED

Compliance Records Found Under Site Description

Facility Name

: GSA-Q AREA

Facility Address

: SENECA ARMY DEPOT ROMUL

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA #

: 3860901

AIRS Site Information

EPA ID:

AIRS ID:

3609900011

State Registration Number:

Significant Violator:

NO

Pollutants Emitted:

Pollutant Code

Pollutant Name

PX

DEFAULT POLLUTANT FROM CDS

AIRS Compliance Details

Air Program: STATE IMPLIMENTATION PLAN (SIP) SOURCE

Pollutant Compliance:

Pollutant Code

Compliance Status

PX

IN COMPLIANCE - CERTIFICATION

Enforcement Actions

Action

Number

Date

Penalty

Description

No Actions Found

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Compliance Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: W. SMITH FARM ROAD ROMUL

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA#

: 3860870

AIRS Site Information

EPA ID:

NY8971520830

AIRS ID:

3609900003

State Registration Number:

4530890046

Significant Violator:

NO

Pollutants Emitted:

Pollutant Code	Pollutant Name
CO	CARBON MONOXIDE
NO2	NITROGEN DIOXIDE
PT	TOTAL PARTICULATE MATTER
SO2	SULFUR DIOXIDE
VE	VISIBLE EMISSIONS
VOC	VOLATILE ORGANIC COMPOUNDS

AIRS Compliance Details

Air Program: STATE IMPLIMENTATION PLAN (SIP) SOURCE

Pollutant Compliance:

Pollutant Code	Compliance Status	 7	
CO	IN COMPLIANCE - INSPECTION		
NO2	IN COMPLIANCE - INSPECTION		

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Pollutant Co	mpliance:	Continued
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Pollutant Code	Compliance Status	
PT	IN COMPLIANCE - INSPECTION	
SO2	IN COMPLIANCE - INSPECTION	
VE	·IN COMPLIANCE - INSPECTION	
VOC	IN COMPLIANCE - INSPECTION	

Enforcement Actions

Action				
Number	Date	Penalty	Description	
22 1 1	- 1			

Compliance Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT-BLDG 4 & 715

Facility Address

: SENECA ARMY DEPOT

Facility City/Zip

: ROMULUS, NY 14541

Facility County

: NOT REPORTED

VISTA#

: 5050621

NPDES Record Details

NPDES Permit Info

Agency Id: N

NY0021296

Facility Type:

Federal

Facility Class:

Minor

Issue Date:

04/11/89

Expiration Date:

05/01/94

Spill Records Found Under Site Description

Facility Name

: SENECA ARMY DEPOT

Facility Address

: N/A

Facility City/Zip

: , NY : SENECA

Facility County

VISTA #

: 200147456

ERNS Spill Record Details

ERNS Spill Details

Spill Date

10/05/1987

Vista ID#:

200147456

Spill Time

3:00 AM

Case Number:

Spill Location

Spill City Spill State

NY

Spill Zip

Spill County

SENECA

Source/Agency

Discharger Org

Discharger Name

SENECA ARMY DEPOT

Discharger Addr

ROUTE 96

Discharger Phone

607-869-1450

Discharger County

ROMULUS

Discharger City Discharger St/Zip

NY, 14541

Material Spilled

NUMBER 6 FUEL OIL, 3000.00, GAL

Medium Affected

Water

Water Way Affected

REEDER CREEK

APPENDIX 1

Explanation of VISTA's Database Search for this Report:

Environmental reporting from the EPA and other government agencies is often inconsistent. The same facility or property may be listed many different ways. A facility may have more than one name(e.g., 'Smith's Garage' and 'Exxon Service Station #12') or an inconsistent presentation of the same name. A street may also be known by more than one name (e.g., 'Main Street' is also known as 'Route 9'). An area may have more than one city name. City names also are frequently abbreviated.

To provide you with the most complete search of government records possible, VISTA does extensive computerized matching of records to combine agency data from different sources. VISTA also performs address verification to the Post Office's Zip+4 database to assure the accuracy of the city and zip code information.

The additional search criteria indicated on Page 1 were used to further enhance the search for government records. This report comprises all VISTA records which fit any of the following conditions relative to the subject property:

Search Criteria

- matching street number, street name, city but no zip code:
- matching street number, street name, zip code:
- within 10 street numbers with matching facility name:
- no street number, but matching street name, city or zip and facility name;
- intersection of matching street name, matching city or zip and facility name;
- no street number or street name with matching city or zip and facility name:
- . P.O. Box with matching city or zip and facility name:
- matching EPA Identification Number:

Limitations of Information:

All data contained in this report was obtained from the federal and state government environmental databases. VISTA does not warrant the accuracy, timeliness, merchantability, completeness or usefulness of any information furnished, and the subscriber accepts any and all risks resulting from decisions made based solely or in part on VISTA information.

FACILITY RISK PROFILE

FEDERAL AGENCY RECORDS SEARCHED

			Database
Agency	Database	Type of Record	Currency
US EPA	NPL	Federal Superfund Sites	05/95
US EPA	CERCLIS	Sites Under Review by US EPA	09/95
US EPA	NFRAP	NFRAP Sites Under Review by US EPA	09/95
US EPA	TRIS	Facilities Releasing Toxic Chemicals	05/95
US EPA	CICIS	Chemical Producers (as of 1981)	05/86
US EPA	FATES	Manufacturers or Processors of Pesticides	10/93
US EPA	PCS	Site with NPDES Water Dischg. Permit	04/94
US EPA	AIRS	Produces Regulated Air Emissions	09/93
US EPA	RCRIS	Hazardous Waste Handlers	06/95
US EPA	CORRACTS	RCRA Corrective Action Site	06/95
US EPA	RAATS	RCRA Administrative Action Site	04/95
US EPA	PADS	PCB Handler	10/93
US EPA	FRDS	Operators of a Pub. Drinking Water Sys.	06/95
US EPA	FINDS	Site on EPA's Facility Index System	11/94
US EPA	ERNS	Spill Sites	03/95
US DoL	OSHA.	. Facilities with OSHA Inspections	11/94
US EPA	FTTS	FIFRA/TSCA/EPCRA Compliance Sites	06/95
US EPA	SETS	Superfund Potentially Responsible Parties	01/95
US EPA	DOCKETS	Sites listed in Civil Enforcement System	06/95
	NIBIN MODIZ C	MAME A CENTUR DECORDE CELA DOTTED	

NEW YORK STATE AGENCY RECORDS SEARCHED

Agency	Type of Record	Database Currency
Department of Environmental Conservation, Bureau of Hazardous Site Control	Inactive Hazardous Waste Disposal Sites	07/95
Department of Environmental Conservation	LUST (Tank Test Failures) Database	06/95
Department of Environmental Conservation, Bureau of Municipal Waste	Recycler's Listing	04/93
Department of Environmental Conservation, Bureau of Waste Management	Incinerators-Resource Recovery Projects	01/94

NEW YORK State Agency Databases Searched (continued)

Agency	Type of Record	Database Currency
Department of Environmental Conservation, Division of Solid Waste	Inactive Solid Waste Sites	09/95
Department of Environmental Conservation, Division of Municipal Waste	Active Solid Waste Disposal Sites	09/95
Department of Environmental Conservation, Petroleum Bulk Storage Program	Aboveground Storage Tanks	06/95
Cortland County Health Department, Division of Environmental Health	Cortland County Petroleum Bulk Storage- Aboveground Tanks	04/95
Nassau County Department of Health	Nassau County Article XI In Service Tanks Database	04/95
Rockland County Department of Health	Rockland County Petroleum Bulk Storage- Aboveground Tanks	10/95
Suffolk County Department of Health Services	Suffolk County Petroleum Bulk Storage- Aboveground Tanks	02/95
Department of Environmental Conservation, Petroleum Bulk Storage Program	Underground Storage Tank Database	06/95
Cortland County Health Department, Division of Environmental Health	Cortland County Petroleum Bulk Storage Database	04/95
Nassau County Department of Health	Nassau County Article XI In Service Tanks Database	04/95
Rockland County Department of Health	Rockland County Petroleum Bulk Storage Database	10/95
Suffolk County Department of Health Services	Suffolk County Petroleum Bulk Storage Database	02/95
Department of Environmental Conservation	Spills Database	06/95

VISTA NATIONAL RADIUS PROFILE

VISTA Report # 7/091064-002

Date of Report: 12/05/95

Ref/Loan # *
Client MR VAN SANDS; WOODWARD CLYDE FEDERAL SVGS DE
4582 S ULSTER ST; DENVER, CO 80257

Subject Property

PONTIUS POINT, NY 14541

SUMMARY OF FEDERAL RECORDS FOUND

Database		0 to	1/4 to	1/2 to	
& Date	Agency and Type of Records	1/4 mi	1/2 mi	1 mi	TOTAL
***********	***************************************				
NPL	US EPA	1	0	ò	1
09/95	Superfund Sites				•
CERCLIS	US EPA	1	0	.0	1
09/95	Potential Superfund Sites				
RCRA-LgGen	US EPA	2	0	1	3
06/95	RCRA Large Quantity Generators				
RCRA-SmGen	US ÉPA	0	0	0	. 0
06/95	RCRA Small and Very Small Quantity Generators				
RCRA-TSD	US EPA .	1	0	0	. 1
06/95	RCRA Treatment, Storage, and/or Disposal Sites				
RCRA-Transp	US EPA	0	0	0	0
06/95	RCRA Transporters				
ERNS	US EPA	0.	. 0	0	. 0
03/95					
		*****			******
	FEDERAL RECORDS Sub-total:	5	. 0	1	6

.Note: 1) A dash (--) indicates the list is not searched at that distance.

²⁾ Sites often have a record in more than one database.

VISTA NATIONAL RADIUS PROFILE

VISTA Report #: 7/091064-002

Date of Report: 12/05/95

Ref/Loan #: * Client: MR VAN SANDS, WOODWARD-CLYDE FEDERAL SVCS-DE 4582 S ULSTER ST, DENVER, CO 80257

Subject Property:

PONTIUS POINT, NY 14541

SUMMARY OF STATE RECORDS FOUND

Database	Accepted and Time of Occapilla	0 to		1/2 to 1 mi	TOTAL
& Date	Agency and Type of Records	1/4 mi	1/2 mi	1 m)	TOTAL

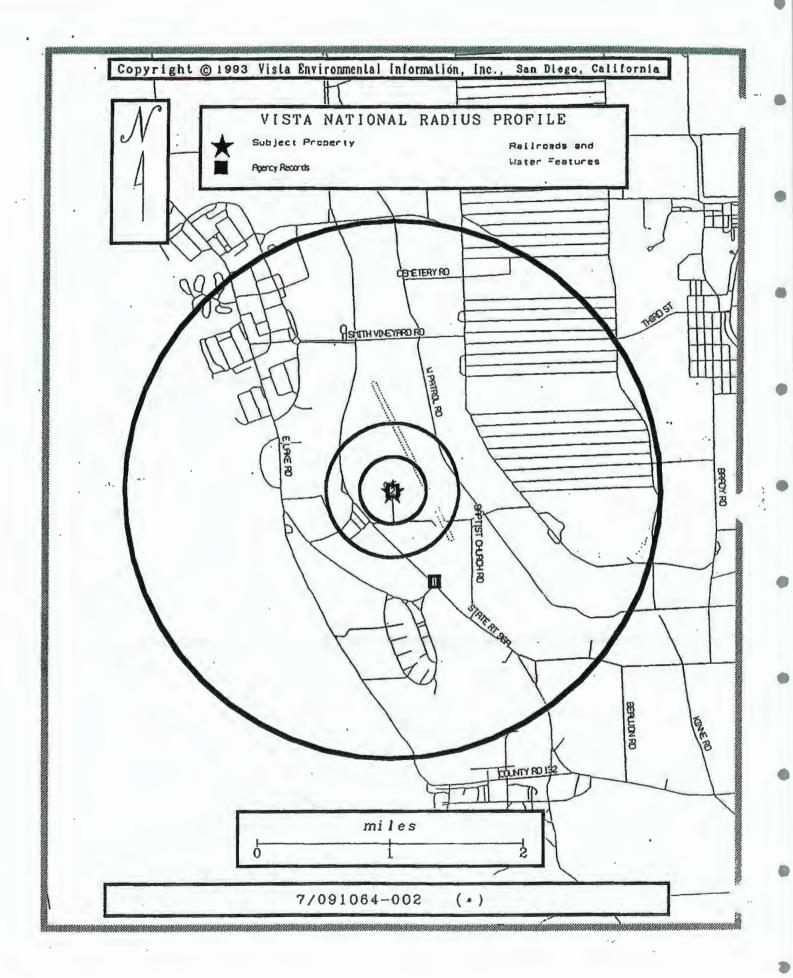
SPL	Department of Environmental Conservation, Bureau of Hazardous Site Control	. 1	0	1	. 2
Δ7/95	Inactive Hazardous Waste Disposal Sites				
LUST	Department of Environmental Conservation	9	0	1	10
06/95	LUŞT (Tank Test Failures) Database				
SHLF	Department of Environmental Conservation, Bureau of Waste Management	0	0	0	0
01/94	Incinerators-Resource Recovery Projects				
SWLF	Department of Environmental Conservation, Bureau of Municipal Waste	0	0	0	0
04/93	Recycler's Listing				
SWLF	Department of Environmental Conservation, Division of Solid Waste	0	0	0	0
09/95	Active and Inactive Landfills List				
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	0	0	0	0
02/95	Suffolk County Petroleum Bulk Storage	٠,			
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	0	0	0	0
04/95	Cortland County Underground Storage Tank Database	_			
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	0	0	0	0
04/95	Nassau County Article XI In Service Tanks Database				
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	1	0	1	2
06/95	Underground Storage Tank Database				
UST'S	Rockland County Department of Health	0	0	0	0
10/95	Rockland County Petroleum Bulk Storage Database				
•					
	STATE RECORDS Sub-total:	11	0	3	14
		=====	502255	=====	========
	TOTAL:	16	0	4	20

Note: 1) A dash (--) indicates the list is not searched at that distance.

2) Sites often have a record in more than one database.

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For more information call: (619) 450-6100



VISTA NATIONAL RADIUS PROFILE

12/05/95

VISTA Report #: 7/091064-002

NPL:

MAP EPA ID /

REF # AGENCY ID

SITE NAME AND ADDRESS

WITHIN 1/4 HILE

2

SENECA ARMY DEPOT

SDSSE-AD

ROMULUS 14541 Distance: 0

0.00 mi.

Oirection: --

Vista ID: 374101

CERCLIS

MAP EPA ID /

REF # AGENCY ID SITE NAME AND ADDRESS -------

WITHIN 1/4 MILE

SENECA ARMY DEPOT 2

SDSSE-AD

ROMULUS 14541

Distance: 0,00 mi.

Vista ID: 1340589

Direction: --

HYD213820830 Status

Site Ownership

: FEDERALLY OWNED

: CURRENTLY ON FINAL NPL

Site Events

: RECORD OF DECISION Event Type

Event Type

: REMEDIAL DESIGN : REMEDIAL ACTION

Event Type **Event Type**

: COMBINED RI/FS

Event Type Event Type : RECORD OF DECISION : REMEDIAL DESIGN

Event Type Event Type

: REMEDIAL ACTION : COMBINED RI/FS : RECORD OF DECISION

Event Type . Lead Agency Event Type

: EPA FUND FINANCED : REMEDIAL DESIGN

Event Type Event Type : REMEDIAL ACTION : COMBINED RI/FS : RECORD OF DECISION

Event Type Event Type Event Type

: REMEDIAL DESIGN : REMEDIAL ACTION

Event Type Event Type

: COMBINED RI/FS : REMOVAL ACTION : RECORD OF DECISION

Event Type **Event Type Event Type**

: REMEDIAL DESIGN. : REMEDIAL ACTION

Event Type

: COMBINED RI/FS : SCREENING SITE INSPECTION

Event Type Event Type

: PRELIMINARY ASSESSMENT

Event Type Lead Agency

PROPOSED FOR MPL . : EPA FUND FINANCED : FINAL LISTING ON NPL

Event Type Lead Agency Event Type

: EPA FUND FINANCED : FINAL LISTING ON NPL

Lead Agency

: EPA FUND FINANCED

Event Type Lead Agency : DISCOVERY

: EPA FUND FINANCED

Description

:SEAD CONDUCTS DEPOT LEVEL MAINTENNC, DEMILITARZN, & SURVEILLANCE ON CONVENTL AMMUNITION & SPCL WEAPONS WHCH REQUIRE SEADTO RECEIVE, INSPCT, TST, CLASSFY, REH REQUIRD, STORE, PRESRY, & ISSUE IND PLT EQUIPMNT; PROV LOGSTC SUPP & TRN ASS

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VISTA NATIONAL RADIUS PROFILE

12/05/95

VISTA Report #: 7/091064-002

Page:

CERCUIS:

HAP EPA ID /

AGENCY 10

1300

· • (*)

SITE NAME AND ADDRESS

WITHIN 174 HILE

2

SENECA ARMY DEPOT

SD\$\$E-AD

ROMULUS 14541 istance:

0.00 mi.

Direction: --

Vista ID: 1340589

REQUIRD, STORE, PRESRY, & ISSUE IND PLT EQUIPHNT; PROV LOGSTC SUPP & TRN ASS

VISTA Report #: 7/091064-002.

Page:

RCRA-LġĠeń

MAP EPA ID /

REF # AGENCY ID

SITE NAME AND ADDRESS

WITHIN 174 MILE

2 SENECA ARMY DEPOT

RTE 96

ROMULUS

Distance:

0.00 mi.

14541

Direction: --

Vista ID: 1340589

NY0213820830 Generator Class

:Generators who generate at least 1000 kg./month of non-acutely hazardous

waste (or 1 kg./month of acutely hazardous waste).

2

USCG - LORAN C STATION SENECA

SENECA ARMY DEPOT

ROMULUS

Distance:

0.00 mi.

14541

Direction: --

Vista ID: 3699526

NY6690331404 Generator Class

:Generators who generate at least 1000 kg./month of non-acutely hazardous

waste (or 1 kg./month of acutely hezardous waste).

WITHIN 1/2 TO 2 HILES

1

HYS PARKS & REC - SAMPSON ST PK

6096 RTE 96A

ROHULUS 14541 Distance:

75 -1

Direction: SE

Vista ID: 366339

NYD982541237 Generator Class

:Generators who generate at least 1000 kg./month of non-acutely hazardous

waste (or 1 kg./month of acutely hazardous waste).

VISTA NATIONAL RADIUS PROFILE

12/05/95

VISTA Report #: 7/091064-002

RCRA-TSD

MAP EPA ID /

REF # AGENCY ID SITE NAME AND ADDRESS

WITHIN 1/4 HILE

2

SENECA ARMY DEPOT

RTE 96

ROMULUS 14541

Distance: 0.00 mi.

Direction: --

Vista ID: 1340589

NY0213820830 Process Codes

:Other Treatment Incinerator Container Storage

HAP EPA ID /

AGENCY ID REF #

SITE NAME AND ADDRESS

2

SENECA ARHY DEPOT

RTE 96

ROMULUS 14541

Distance: 0.00 mi.

Direction: --

Vista ID: 1340589

850006

Owner Name Owner Address : U.S. ARMY : ROUTE 96A

ROMULUS

, HY

: OPEN DUMP Facility Type

NPL Status

State Status : REMEDIAL ACTION PENDING

Waste # 0 . : AMMUNITION WASTE Waste # 1 : CHLORIHATED SOLVENTS

Waste # 2 :

STATE Detailed Site Description Available

Call 1-800-877-3824 for Details.

WITHIN 1/2 TO 2 MILES

SAMPSON STATE PARK

ROUTE 96A

ROMULUS 14541

Distance:

.75 mi.

Direction: SE Vista ID: 3507351

850005

Owner Hame

Owner Address

: 6096 ROUTE 96A

: SAMPSON STATE PARK ROMULUS

Facility Type : OPEN DUMP

NPL Status

1

State Status : TEMPORARILY NO STATUS

Waste # 0 : UNKHOWN

Waste # 1 :

Waste # 2 :

STATE Detailed Site Description Available Call 1-800-877-3824 for Details.

For more information call: (619) 450-6100

VISTA Report #: 7/091064-002

Page:

LUST

HAP EPA ID /

REF # AGENCY 10

SITE HAME AND ADDRESS

==========

WITHIN 1/4 HILE

2

SENECA ARMY DEPOT

RTE 96

ROMULUS 14541

Distance:

0.00 mi.

Direction: --

Vista ID: 1340589

9402630

Owner Name

: SENECA ARMY DEPOT

Owner Address

Discovery Date

: 02/12/90

Substance

: GASOLINE (UNSPECIFIED)

Hedia Affected

: GROUNDWATER : TANK FAILURE

Leak Cause

: NON-COMMERCIAL INDUSTRY

Leak Source Remediation

: CASE CLOSEO/CLEANUP COMPLETE

Owner Name

: SENECA ARMY DEPOT

Owner Address

: ROUTE 96

Discovery Date

ROHULUS NY .

Substance

: 09/22/88

: JET FUEL

Media Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source Remediation : NON-COMMERCIAL INDUSTRY

Owner Name

: CASE CLOSED/CLEANUP COMPLETE

Owner Address

: SENECA ARMY DEPOT

: ROUTE 96A

Discovery Date

ROHULUS NY : 12/08/87

Substance

: GASOLINE (UNSPECIFIED)

Media Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

Remediation Owner Name

: SENECA ARMY DEPOT

Owner Address

: SAME

Discovery Date

: 11/16/87 : FUEL OIL #2

Substance

: GROUNDWATER

Hedia Affected

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Owner Name

: U S ARHY

Owner Address

: SAHE

MAP EPA ID / REF #

AGENCY ID

SITE NAME AND ADDRESS

SILM 4VE WIRTIN

2

SENECA ARMY DEPOT

RTE 96

ROMULUS 14541

Distance:

0.00 mi.

Direction: --

Vista ID: 1340589

Discovery Date

Substance

: 09/22/92 : FUEL OIL #2

Hedia Affected Leak Cause

: SOIL/LAND/SAND : TANK FAILURE

Leak Source Remediation

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

Owner Name Owner Address : SENECA ARMY DEPOT : ROUTE 96 SDSTO-53E1-PE

ROMULUS, NY 14541 .

Discovery Date Substance , Media Affected

: 09/13/91 : FUEL OIL #2 : GROUNDWATER : TANK FAILURE

Leak Cause Leak Source

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

Remediation . Discovery Date

: 09/10/91 .

Substance

: GASOLINE (UNSPECIFIED)

Media Affected Leak Cause

: GROUNDWATER : TANK FAILURE

Leak Source Remediation

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

Discovery Date Substance

: 12/08/94

Nedia Affected Leak Cause

: FUEL OIL #2 : SOIL/LAND/SAND : TANK FAILURE

Leak Source Remediation : NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

SENECA ARMY DEPOT BLD 357

SENECA ARMY DEPOT BLG 357

ROHULUS

Distance:

0.00 mi.

14541

Direction: --Vista ID: 1356147

9004170

Owner Name

: SENECA ARMY DEPOT

Owner Address

: RT 96

Discovery Date

1: 12/19/87

Substance

: GASOLINE (UNSPECIFIED)

VISTA Report #: 7/091064-002

LUST

MAP EPA ID / REF #

AGENCY 1D

SITE NAME AND ADDRESS

2

SENECA ARMY DEPOT BLD 357

SENECA ARMY DEPOT BLG 357

ROBULUS 14541

Distance: 0.00 mi.

Direction: --Vista ID: 1356147

Hedia Affected

Leak Cause

: GROUNDWATER : TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Discovery Date Substance

: 03/27/92 : FUEL OIL #2

Quantity

: 75.00 GALLONS

Media Affected Leak Cause

: GROUNDWATER : TANK FAILURE

Leak Source Remediation

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

SENECA ARMY DEPOT

ROUTE 96 SENECA ARMY DEP

ROMULUS 14541

Distance:

Direction: --

Vista ID: 1521704

9400104

Owner Rame

: SENECA ARMY DEPOT

Owner Address

ROMULUS

:

Discovery Date

: 04/04/94

Substance Quantity

: FUEL OIL #2

Redia Affected

: 100.00 GALLONS : SURFACE WATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEARUP COMPLETE

Owner Name

: IT CORPORATION

Owner Address

: 140 ALLENS CREEK RAD

ROCHESTER, NY

Discovery Date Substance

: 09/15/93 : FUEL OIL #2

Quantity

: 20.00 GALLORS

Hedia Affected

: SOIL/LAND/SAND

Leak Cause Leak Source : TANK FAILURE

Remediation -

: NON-COMMERCIAL INDUSTRY

Discovery Date

: CASE OPEN

: 11/19/92

Substance

. : FUEL OIL #2

•			LUST		
MAP REF #	EPA ID / AGENCY ID	SITE NAME AND ADDRE		*******************************	
	•		ЧІТНІЙ: 1/4 -йгі	E	
2		SENECA-ARMY DEPOT ROUTE 96A AIRFD BLD	 og 2305	ROMULUS 14541	Distance: 0.00 mi. Direction: Vista ID: 1521704
		Quantity Media Affected Leak Cause Leak Source Remediation	: 1700.00 GALLONS : GROUNDWATER : TANK FAILURE : NON-COMMERCIAL INDUSTR : CASE CLOSED/CLEANUP CO		VISTO 10. 1321104
2		SENECA ARMY DEPOT SENECA ARMY DEPOT		ROMULUS 14541	Distance: 0.00 mi. Direction: Vista ID: 2736222
•	8904332	Owner Name Owner Address	: SENECA ARMY DEPOT		1000 100 0100-010
÷		Discovery Date Substance Redia Affected Leak Cause Leak Source Remediation	: 06/11/92 : FUEL OIL #2 : GROUNDWATER : TANK FAILURE : NON-COMMERCIAL INDUSTR : CASE OPEN	Y	
2		SENECA ARMY DEPOT 2452 QUARTERS AREA		ROMULUS 14541	Distance: 0.00 mi. Direction: Vista 1D: 3539976
	9204266	Owner Wame Owner Address	: U S ARHY : SAME		
		Discovery Date Substance Hedia Affected Leak Cause Leak Source Remediation	: 07/14/92 : FUEL OIL #2 : GROUNDWATER : TANK FAILURE : NON-COMMERCIAL INDUSTR : CASE CLOSEO/CLEANUP CO		

LUST

MAP EPA ID 7

REF # AGENCY ID

8907242

8907722

SITE NAME AND ADDRESS

SENECA ARMY DEPOT

BLDG 710

ROMULUS 14541

0.00 mi. Distance:

Direction: --Vista ID: 4112546

Owner Name

: SENECA ARHY DEPOT

ROMULUS NY

Discovery Date Substance

Owner Address

: 10/20/89 : FUEL OIL #2

Media Affected Leak Cause

: SOIL/LAND/SAND : TANK FAILURE

Leak Source Remediation

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEARUP COMPLETE

SENECA ARMY DEPOT 2

BLDG 806

ROMULUS 14541

Distance: 0.00 mi.

Direction: --Vista ID: 4112547

Owner Name : SENECA ARMY DEPOT

Owner Address

ROMULUS NY

Discovery Date Substance **Media Affected**

: 11/01/89 : FUEL OIL #2 : GROUNDWATER

Leak Cause Leak Source : TANK FAILURE

Remediation

: HON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

SENECA ARMY DEPOT

BUILDING #212

ROHULUS

Distance: 0.00 mi.

14541

Direction: --Vista ID: 4112548

8910053

Owner Name

: SENECA ARMY DEPOT

Owner Address

: 01/19/90 : FUEL OIL #2

Discovery Date Substance Hedia Affected

: STREET/GUTTER/SEWER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

: CASE CLOSED/CLEANUP COMPLETE

Remediation

LUST

MAP EPA ID / REF #

AGENCY ID

SITE NAME AND ADDRESS

2

SENECA ARMY DEPOT BG 2079

SENECA ARMY BLDG 2079

ROMULUS 14541

Distance:

0.00 mi.

Direction: --Vista ID: 4719832

9307375

Owner Name

: SENECA ARMY DEPOT

Owner Address

Discovery Date

: 09/17/93

Substance Media Affected . : FUEL OIL #6 : SOIL/LAND/SAND

Leak Cause

: TANK FAILURE

Leak Source Remediation : NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

WITHIN 172 TO 2 HILES

ROHULUS 14541

Distance: . .75 mi.

Direction: SE Vista ID: 366339

9000052

Owner Name

: SAMPSON STATE PARK

Owner Address

: RT 414

DRESDEN, HY

Discovery Date

: 03/01/90

Substance

: GASOLINE (UNSPECIFIED)

Hedia Affected Leak Cause

: GROUNDWATER

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

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VISTA Report #: 7/091064-002

UST/s

MAP EPA ID /

AGENCY 10 REF #

SITE NAME AND ADDRESS

WITHIN 1/4 HILE

US ARMY

SENECA ARMY DEPOT ACTIVITY

ROMULUS 14541

Distance:

0.00 mi.

Direction: --Vista ID: 2495496

8-416118

Number of Underground Tanks: 175 Number of Aboveground Tanks: 91

Contents: FUEL OIL, OTHER, UNLEADED GAS, DIESEL, KEROSENE, EHPTY,

WITHIN 1/2 TO 2 HILES



ROHULUS 14541

Distance:

.75 mi.

Direction: SE Vista ID: 4122766

8-264644

Number of Underground Tanks: 12 Number of Aboveground Tanks: 8

Contents:OTHER.DIESEL, FUEL OIL, UNLEADED GAS,

CUSTOMER USE LIMITATIONS - Customer proceeds at its own risk in choosing to rely upon VISTA services, in whole or part, prior to proceeding with any transaction. VISTA assumes no responsibility for the accuracy of government records, for errors occurring in conversion of data, or for customer's use of VISTA services. VISTA's obligation regarding data is solely limited to providing portions of data existing in government records as of the date of each government update received by VISTA.

. . . .

For more information call: (619) 450-6100

VISTA Report #: 7/091864-002

Date of Report: 12/05/95

UNMAPPABLE SITES

Unmappable sites are environmental risk sites that cannot be geocoded, but can be located by zip code or city name.

In general, a site cannot be geocoded because of inaccurate or missing locational information in the record provided by the agency. For many of these records, VISTA has corrected or added locational information by using U.S. Postal address validation files and proprietary programming that adds locational information from private industry address files. However, many site addresses cannot be corrected using these techniques and those sites cannot be mapped.

Of the sites that cannot be mapped, VISTA identifies those that have complete zip code or city name information. All ungeocoded sites that have a ZIP code in the radius are considered for inclusion. Ungeocoded sites that do not have a ZIP code but do have a street name are considered for inclusion if they have a city in the radius. An ungeocoded record may be excluded if it can be determined to be outside the relevant radius searched for a particular database.

12/05/95

VISTA Report #: 7/091064-002

Generator Class

UNMAPPABLE SITES

Page: 1

NYD000703611

SITE NAME AND ADDRESS

SERVICE STATION: ROUTE 96A, OVID 14521

RCRA-Ligden

EPA ID /
AGENCY ID

SERVICE STATION: ROUTE 96A, OVID 14521

3934206

waste (or 1 kg./month of acutely hazardous waste).

:Generators who generate at least 1000 kg./month of non-acutely hazardous

UNMAPPABLE SITES

12/05/95

Page: 2

RCRA*SmGen

SITE NAME AND ADDRESS .

VISTA ID

EPA ID / AGENCY ID

RONNIE'S BOOY SHOPE RT. 96, THILE EAST OF OVID, OVID 14521

360052

Generator Class

VISTA Report #: 7/091064-002

:Generators who generate 100 kg./month but less than 1000 kg./month of

NY0981557283

non-acutely hazardous waste

12/05/95

VISTA Report #: 7/091064-002

UNMAPPABLE SITES

Page: 3

LUST EPA ID / SITE NAME AND ADDRESS VISTA ID AGENCY ID --------TELARD PSYCHIATRIC ETR: LAUNDRY BUILDINGY ROMULUS 414541 2723940 Owner Name : WILLARD PSYCHIATRIC 8709283 Owner Address ROMULUS, NY Discovery Date : 01/26/88 : FUEL OIL #2 Substance : GROUNDWATER **Hedia Affected** Leak Cause : TANK FAILURE Leak Source : NON-COMMERCIAL INDUSTRY Remediation : CASE CLOSED/CLEANUP COMPLETE HIATRIE CTRI- ROUTE 96A POWER PLANT ROMULUS 1454 2730737 : 03/23/95 9200234 Discovery Date Substance : FUEL OIL #2 **Hedia Affected** : SOIL/LAND/SAND Leak Cause : TANK FAILURE Leak Source : COMMERCIAL INDUSTRY Remediation : CASE OPEN Discovery Date : 03/20/95 : GASOLINE (UNSPECIFIED) Substance Hedia Affected : SOIL/LAND/SAND Leak Cause : TANK FAILURE Leak Source : COMMERCIAL INDUSTRY Remediation : CASE OPEN : 03/16/95 Discovery Date : GASOLINE (UNSPECIFIED) Substance **Hedia** Affected : GROUNDWATER Leak Cause : TANK FAILURE Leak Source : NON-COMMERCIAL INDUSTRY Remediation

OUTCASHEAST STOREST ROUTE WAS DV 102214521

2733933

8910493

Discovery Date

: 02/01/90

Substance

: GASOLINE (UNSPECIFIED)

Kedia Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: FIXED FACILITY

For more information call: (619) 450-6100

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UNMAPPABLE SITES

12/05/95

Page: 4

8706927

8708231

9411559

EPA ID / SITE NAME AND ADDRESS VISTA ID AGENCY ID ******************************** ********

QUICK WEASY STORE ROUTE 964, OVID 14521 2733933

Remediation : CASE OPEN

ISTA Report #1 7/091064-002

SENECA COUNTY HOUSE DEPT 3 SENECA COUNTY HOUY DEPT, ROMULUS 14541

2736219 The state of the s

: SENECA COUNTY HGWY D Owner Name

Owner Address

ROHULUS NY Discovery Date : 11/13/87

: GASOLINE (UNSPECIFIED) Substance

Hedia Affected : GROUNDWATER Leak Cause : TANK FAILURE

Leak Source : NON-COMMERCIAL INDUSTRY

: CASE CLOSED/CLEANUP COMPLETE Remediation

HOWARD'S HOBIL: 4 CORNERS DVID 14521 4112763

> : HOWARD'S HOBIL Owner Name

: 4 CORNERS Owner Address OVID NY

: 12/23/87 Discovery Date

: GASOLINE (UNSPECIFIED) Substance

: SOIL/LAND/SAND **Media Affected** Leak Cause : TANK FAILURE Leak Source : FIXED FACILITY

: CASE CLOSED/CLEARUP COMPLETE Remediation

5320087

Discovery Date · : 11/29/94

: GASOLINE (UNSPECIFIED) Substance

Hedia Affected : GROUNDWATER Leak Cause : TANK FAILURE

: NON-COMMERCIAL INDUSTRY Leak Source

Remediation : CASE OPEN

12/05/95

VISTA Report #: 7/091064-002

SITE NAME AND ADDRESS

UNMAPPABLE SITES

Page: 5

LUST

State of the second sec

EPA ID / VISTA ID

AGENCY ID

SUNOCO SERVICE STATION: ROUTE 96-A, OVID 14521

5416336

Owner Name

: LAMOREAUX AND QUINN

7980327

Owner Address

Substance

: GASOLINE (UNSPECIFIED)

Hedia Affected

: UNKNOWN

Leak Cause Leak Source : TANK FAILURE : COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

For more information call: (619) 450-6100

UNMAPPABLE SITES

12/05/95



EPA ID / SITE NAME AND ADDRESS VISTA ID ==========

AGENCY ID *==========

OWIL OF OVID

3502609

facility Status

: ACTIVE

50802

Waste Type

: RESIDENTIAL

Owner Name

VISTA Report #: 7/091064-002

: TOWN OF OVID

Owner Address

SENECA WAYNE YATES COUNT

3998486

Facility Type

: INCINERATOR

Facility Status

: INACTIVE

5156807

Facility Status

: ACTIVE

Waste Type 1

: RESIDENTIAL

Owner Name

: RICHARD SEYHOUR

Owner Address

50T01

(I): ,

5619687

Facility Status

: INACTIVE

Owner Name

: TOWN OF JUNIUS

Owner Address

(T): ,

5619941

Facility Status

: INACTIVE

Owner Name

: VARICK

Owner Address

50s10 ·

50S02

12/05/95

VISTA Report #: 7/091064-002

UNMAPPABLE SITES

Dage 7

		SULF		
SITE NAME AND ADD	PRESS		VISTA ID	EPA 10 / AGENCY 1D
WATERLEO SEF	43.		5619977	
	ity Status	: IHACTIVE		50\$11
0Musi	ity Status	HALL, OVID 14521 : INACTIVE : TOWN OF OVID SITE B :	5620650	50s04
Facil Owner	ity Status Name	HALL, ROMULUS 14541 : INACTIVE : TOWN OF ROMULUS : ,	5620651	 50s06

VISTA Report #: 7/091064-002

UNMAPPABLE SITES

12/05/95

Page: 8

UST/s EPA ID / SITE NAME AND ADDRESS VISTA ID AGENCY ID ROUTE 96A; OVID 14521 739814 Number of Underground Tanks: 2 8-013528 Number of Aboveground Tanks: 0 Contents: LEADED GAS, 748951 Number of Underground Tanks: 2 8-227285 Number of Aboveground Tanks: 0 Contents: LEADED GAS, DIESEL, ROUTE 96-96A, OVID 14521 777508 Number of Underground Tanks: 4 8-498556 Number of Aboveground Tanks: 0 Contents:OTHER,UNLEADED GAS, 1531130 Number of Underground Tanks: 2 8-079944 Number of Aboveground Tanks: 1 Contents:DIESEL, LEADED GAS, alas an na agicil Napige Maria para na ara-3634109 8-052833 Number of Underground Tanks: 5 Number of Aboveground Tanks: 1 Contents: UNLEADED GAS, DIESEL, FUEL OIL, WATER TO THE STATE OF THE STATE . 3635814 8-600092 Number of Underground Tanks: 0 Humber of Aboveground Tanks: 5 . Contents:DIESEL,UNLEADED GAS, FUEL OIL,

12/05/95

VISTA Report #: 7/091064-002

UNMAPPABLE SITES

Page: 9

USTIE		
SITE NAME AND ADDRESS	VISTA ID	EPA ID / AGENCY ID
SOUTH SENECA CENTRAL SCHOOL: HIGH SCHOOL, OVID 14521	3640333	
Number of Underground Tanks: 3 Number of Aboveground Tanks: 4 Contents:FUEL OIL,DIESEL,EMPTY,	************	8-102075
Number of Underground Tanks: 3 Number of Aboveground Tanks: 3 Contents:DIESEL, FUEL OIL, UNLEADED GAS,	4112523	8-444774
TRY-US FOOD & FUEL: SMITH WEATHERBY INC, ROMULUS 14541 Number of Underground Tanks: 7 Contents:UNLEADED GAS, EMPTY,	4122786	8-102318
Number of Underground Tanks: 3 Number of Aboveground Tanks: 5 Contents:UNLEADED GAS, DIESEL, FUEL OIL,	4259680	8-426350
Number of Underground Tanks: 3 Number of Aboveground Tanks: 4	5079966	8-051365

CUSTOMER USE LIMITATIONS - Customer proceeds at its own risk in choosing to rely upon VISTA services, in whole or in part, prior to proceeding with any transaction. VISTA assumes no responsibility for the accuracy of government records, for errors occurring in conversion of data, or for customer's use of VISTA services. VISTA's obligation regarding data is solely limited to providing portions of data existing in government records as of the date of each government update received by VISTA.

Contents: FUEL OIL, DIESEL, UNLEADED GAS,

DESCRIPTION OF DATABASES SEARCHED

Below are general descriptions and search parameters of the federal and state databases that VISTA searches for the National Radius Report.

FEDERAL DATABASES

Please check the "Summary of Environmental Risks Found" matrix on the cover of this profile to determine the specific dates of the federal databases searched for this profile.

U.S. EPA: NPL

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial action under the Superfund Program. A site, to be included on the NPL, must either meet or surpass a predetermined hazard ranking systems score, or be chosen as a state's top-priority site, or meet all three of the following criteria:

- The US Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure,
- 2) The EPA determines that the site represents a significant threat.
- 3) The EPA determines that remedial action is more cost-effective than removal action.

U.S. EPA: CERCLIS

The CERCLIS List is a compilation by the BPA of the sites which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA or Superfund Act).

U.S. EPA: RCRA (RCRIS/HWDMS)

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of reporting facilities that generate, transport, treat, store or dispose of hazardous waste.

U.S. EPA: ERNS

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported accidental releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation.

STATE DATABASES

Please check the "Databases Searched" to determine if the following type of databases are available from VISTA for the state in which the subject property of this report is located. Please note that if the Summary does not list one of the following databases, it is not currently available. You may also determine the specific names and dates of the databases searched for this profile in the summary.

STATE: SPL

The State Priority List is a generic name for databases maintained by many states that contain sites considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment. These sites are generally listed by the state to warn the public or as a part of an investigation and cleanup program managed by the state.

STATE: LUST

This is a database maintained by state or local agencies of known or suspected leaking underground storage tanks.

STATE: UST

This is a database maintained by state or local agencies of registered underground storage tanks.

STATE: SWLF

This is a database maintained by state or local agencies of Solid Waste Landfills, Incinerators, and transfer stations.

√ISTA Report #: 6/088933-001

Date of Report: 11/08/95

Ref/Loan #: SENECA ARMY DEPOT.

Client: VAN SANDS, WOODWARD CLYDE-DENVER 4582 S ULSTER ST STE 1200, DENVER, CO 80237-2637

Subject

Property:

ROMULUS, NY 14541

SUMMARY OF FEDERAL RECORDS FOUND

Database & Date	Agency and Type of Records	0 to 1/4 mi	1/4 to 1/2 mi	1/2 to 4 1/2 mi	TOTAL
₩PL 05/95	US EPA Superfund Sites	1	0	0	1
CERCLIS 09/95	US EPA Potential Superfund Sites.	1	0	0	1.
RCRA-LgGen 06/95	US EPA RCRA Large Quantity Generators	2	0	1	3
RCRA-SmGen 06/95	US EPA RCRA Small and Very Small Quantity Generators	0	0	1	. 1
RCRA-TSD 06/95	US EPA RCRA Treatment,Storage,and/or Disposal Sites	1	0	0	. 1
RCRA-Transp 06/95	US EPA RCRA Transporters	0	0	0	0
ERWS 03/95	US EPA .	0	0	0	. 0
	FEDERAL RECORDS Sub-total:	5	0	2	 7

^{2: 1)} A dash (--) indicates the list is not searched at that distance.

²⁾ Sites often have a record in more than one database.

VISTA Report #: 6/088933-001

Date of Report: 11/08/95

For more information call: (619) 450-6100

Ref/Loan #: SENECA ARMY DEPOT Client: VAN SANDS, WOODWARD CLYDE-DENVER 4582 S ULSTER ST STE 1200, DENVER, CO 80237-2637

Subject

Property:

ROMULUS, NY 14541

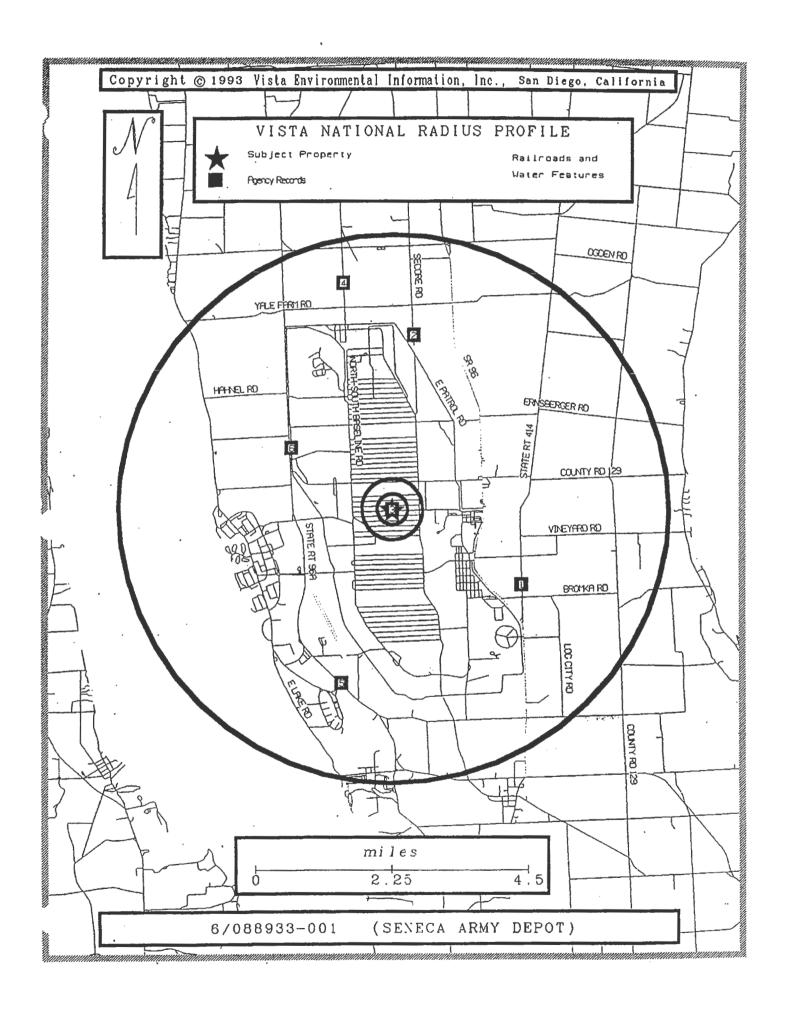
SUMMARY OF STATE RECORDS FOUND

Database & Date	Agency and Type of Records	0 to.	1/4· to	., -	
o pate	Agency and Type of Accords	1/4 1111	1/2 MI	4 1/2 m	TOTAL
SPL	Department of Environmental Conservation, Bureau of Hazardous Site Control	1	0	1	2
07/95	Inactive Hazardous Waste Disposal Sites				
LUST	Department of Environmental Conservation	9	0	4	13
06/95	LUST (Tank Test Failures) Database				
SWLF	Department of Environmental Conservation, Bureau of Waste Management	0	0	0	
01/94	Incinerators-Resource Recovery Projects	•	•	•	
SWLF	Department of Environmental Conservation, Bureau of Municipal Waste	0	0	0	0
04/93	Recycler's Listing				
SWLF	Department of Environmental Conservation, Division of Solid Waste	0	0	0	0
09/95	Active and Inactive Landfills List				
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	0	0	0	0
02/95	Suffolk County Petroleum Bulk Storage				
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	0	. 0	0	0
04/95	Cortland County Underground Storage Tank Database				
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	0	0	0	. 0
04/95	Nassau County Article XI In Service Tanks Database				
UST's	Dept. of Env. Conservation, Petroleum Bulk Storage	1	0	3	4
06/95	Underground Storage Tank Database				
UST'S	Rockland County Department of Health	0	0	0	0
10/95	Rockland County Petroleum Bulk Storage Database				

	STATE RECORDS Sub-total:	11	0	8	19
		322000			
	TOTAL:	16	0	10	26

Note: 1) A dash (--) indicates the list is not searched at that distance.

2) Sites often have a record in more than one database.



11/07/95

VISTA Report #: 6/088933-001

lada.

NPL .

MAP EPA ID /

REF # AGENCY ID

SITE NAME AND ADDRESS

WETHEN 1/4 HELE

3

. SENECA ARMY DEPOT SOSSE-AD

RONULUS 14541 Distance: 0.00 mi.

Direction: --Vista ID: 374101

CERCLIS

. KAP EPA ID /

REF # AGENCY ID

SITE NAME AND ADDRESS

WITHIR 1/4 HILE

3

SERECA ARMY DEPOT

SDSSE-AD

ROMULUS 14541 · Distance: 0.00 mi.

Direction: --

Vista ID: 1340589

NY0213820830 Status

: CURRENTLY ON FINAL NPL

Site Ownership

: FEDERALLY OWNED

Site Events

:

Event Type

: RECORD OF DECISION : REMEDIAL DESIGN

Event Type
Event Type
Event Type

: REMEDIAL ACTION : COMBINED RI/FS

Event Type Event Type

: RECORD OF DECISION : REMEDIAL DESIGN

Event Type
Event Type

: REMEDIAL ACTION : COMBINED RI/FS

Event Type Lead Agency Event Type : RECORD OF DECISION : EPA FUND FINANCED : REMEDIAL DESIGN

Event Type
Event Type
Event Type
Event Type

: REMEDIAL ACTION
: COMBINED RI/FS
: RECORD OF DECISION
: REMEDIAL DESIGN

Event Type Event Type Event Type

: REMEDIAL ACTION : COMBINED RI/FS : REMOVAL ACTION

Event Type : RECORD OF DECISION
Event Type : REMEDIAL DESIGN
Event Type : REMEDIAL ACTION

Event Type
Event Type
Event Type

: COMBINED RI/FS : SCREENING SITE INSPECTION : PRELIMINARY ASSESSMENT

Event Type Lead Agency

: PROPOSED FOR NPL .
: EPA FUND FINANCED
: FINAL LISTING ON NPL

Event Type Lead Agency Event Type

: EPA FUND FINANCED : FINAL LISTING ON NPL

Lead Agency Event Type : EPA FUND FINANCED : DISCOVERY

Lead Agency

: EPA FUND FINANCED

Description

:SEAD CONDUCTS DEPOT LEVEL MAINTENNC, DEMILITARZH, & SURVEILLANCE ON CONVENTL
AMMUNITION & SPCL WEAPONS WHICH REQUIRE SEADTO RECEIVE, INSPCT, TST, CLASSFY, REH

REQUIRD, STORE, PRESRY, & ISSUE IND PLT EQUIPMNT; PROV LOGSTC SUPP & TRN ASS

11/07/95

VISTA Report #: 6/088933:001

Dana. 7

CERCLIS

MAP EPA ID /

REF # AGENCY 10

SITE HAME AND ADDRESS

WITHIN 1/4 MILE

. 3 . .

SENECA ARMY DEPOT

SDSSE-AD

ROMULUS 14541

Distance: 0.00 mi.

Direction: --

Vista ID: 1340589

REQUIRD, STORE, PRESRY, & ISSUE IND PLT EQUIPMNT; PROV LOGSTC SUPP & TRN ASS

4.724

RCRA+LgGen

HAP EPA ID / AGENCY 1D REF #

SITE WAME AND ADDRESS

WITHIN 1/4 HILE

3

======

SENECA ARMY DEPOT

RTE 96

ROHULUS

Distance:

0.00 mi.

14541

Direction: --

Vista ID: 1340589

NYO213820830 Generator Class

:Generators who generate at least 1000 kg./month of non-acutely hazardous

waste (or 1 kg./month of acutely hazardous waste).

3

USCG - LORAN C STATION SENECA

SENECA ARMY DEPOT

ROMULUS

Distance: 0.00 mi.

14541

Direction: -- '

Vista ID: 3699526

NY6690331404 Generator Class

:Generators who generate at least 1000 kg./month of non-acutely hazardous

waste (or 1 kg./month of acutely hazardous waste).

WITHIN 1/2 TO 4.5 MILES

5

MYS PARKS & REC - SAMPSON ST PK

6096 RTE 96A

ROHULUS 14541

Distance: 2.97 mi.

Direction: SW

Vista ID: 366339

NYD982541237 Generator Class

:Generators who generate at least 1000 kg./month of non-acutely hazardous

waste (or 1 kg./month of acutely hazardous waste).

11/07/95

VISTA Report #: 6/088933-001

RCRA-SmGen

EPA ID / MAP

AGENCY ID

SITE NAME AND ADDRESS

WITHIN 1/2 TO 4.5 HILES

6

TOWN OF VARICK 4782 ROUTE 96

ROMULUS 14541

Distance: Direction: NW

Vista ID: 3653964

NYD035700459 Generator Class

:Generators who generate 100 kg./month but less than 1000 kg./month of

non-acutely hazardous waste

RCRA-TSD

MAP EPA ID / REF #

AGENCY ID

SITE NAME AND ADDRESS

3

SENECA ARMY DEPOT

RTE 96

ROMULUS 14541

Distance: 0.00 mi.

Direction: --Vista ID: 1340589

NY0213820830 Process Codes :Other Treatment Incinerator Container Storage

For more information call: (619) 450-6100

11/07/95

Page: 7

VISTA Report #: 6/088933-001

MAP EPA ID /

AGENCY ID REF #

SITE NAME AND ADDRESS ------

WLTHIN 1/4 HILE

3

SENECA ARMY DEPOT

RTE 96

ROMULUS 14541

Distance:

0.00 mi.

Direction: --

Vista ID: 1340589

850006

Owner Name Owner Address : U.S. ARHY

: ROUTE 96A

ROHULUS

, NY

Facility Type

: OPEN DUMP

NPL Status

State Status : REMEDIAL ACTION PENDING

Waste # 0 : ANHUNITION WASTE Waste # 1 : CHLORINATED SOLVENTS

Waste # 2 :

STATE Detailed Site Description Available

Call 1-800-877-3824 for Details.

WITHIN 1/2 TO:4.5 MILES

5

SAMPSON STATE PARK

ROHULUS 14541

Distance:

2.97 mi.

Direction: SW

Vista ID: 3507351

850005

ROUTE 96A

Owner Name

: SAMPSON STATE PARK

Owner Address : 6096 ROUTE 96A

ROMULUS

, NY

Facility Type

: OPEN DUMP

NPL Status

State Status : TENPORARILY NO STATUS

Waste # 0 : UNKNOWN ,

Waste # 1 : Waste # 2 :

STATE Detailed Site Description Available

Call 1-800-877-3824 for Details.

LUST

MAP EPA JD /

REF # AGENCY ID SITE NAME AND ADDRESS

WITHIN 1/4 HILE

3

SENECA ARMY DEPOT

RTE 96

ROHULUS 14541

Distance: 0:00 mi.

Direction: --

Vista ID: 1340589

9402630

Owner Name

: SENECA ARMY DEPOT

Owner Address

Discovery Date

: 02/12/90

:

Substance

: GASOLINE (UNSPECIFIED)

Hedia Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

Remediation Owner Name

: SENECA ARMY DEPOT

Owner Address

: ROUTE 96 ROMULUS HY

Discovery Date

: 09/22/88

Substance

: JET FUEL

Media Affected

Leak Cause

: GROUNDWATER

Leak Source

: TANK FAILURE : NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Owner Name

: SENECA ARMY DEPOT

Owner Address

: ROUTE 96A

Discovery Date

ROMULUS NY : 12/08/87

Substance

: GASOLINE (UNSPECIFIED)

Hedia Affected

: GROUNOWATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation: Owner Name

: CASE CLOSED/CLEANUP COMPLETE

: SENECA ARMY DEPOT

Owner Address

: SAME

Discovery Date Substance

: 11/16/87 : FUEL OIL #2

Hedia Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source Remediation : NON-COMMERCIAL INDUSTRY

Owner Name

: CASE CLOSED/CLEANUP COMPLETE

: U S ARMY

Owner Address

: SAME

TITIA BESSET EL ELLEVISTE DEL

. HAP EPA ID / REF #

AGENCY ID

SITE NAME AND ADDRESS

WITRIN 1/4 HILE

3

======

SENECA ARMY DEPOT

RTE 96

ROMULUS

. Distance: 0.00 mi.

14541

Direction: --Vista 10: 1340589

Discovery Date Substance

: 09/22/92 : FUEL OIL #2

Hedia Affected

: SOIL/LAND/SAND

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Owner Name

: SENECA ARMY DEPOT

Owner Address

: ROUTE 96 SDSTO-53EI-PE

ROMULUS, NY 14541. .

Discovery Date

: 09/13/91

Substance

: FUEL OIL #2

Hedia Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation -

: CASE CLOSED/CLEANUP COMPLETE

Discovery Date

: 09/10/91

Substance **Hedia Affected** : GASOLINE (UNSPECIFIED)

Leak Cause

: GROUNDWATER

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Discovery Date Substance ~

: 12/08/94 : FUEL OIL #2

Media Affected

Leak Cause

: SOIL/LAND/SAND

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

3

SENECA ARMY DEPOT BLD 357

SENECA ARMY DEPOT BLG 357

ROMULUS 14541

Distance: Direction: --

Vista ID: .1356147

0.00 mi.

9004170

Owner Name

: SENECA ARMY DEPOT

Owner Address

: RT 96

Discovery Date

Substance

: 12/19/87

: GASOLINE (UNSPECIFIED)

LUST

KAP EPA ID / REF # AGENCY ID

SITE NAME AND ADDRESS

==========

WITHIN 1/4 HILE

3

SENECA ARMY DEPOT BLD 357 SENECA ARMY DEPOT BLG 357

Distance: 0.00 mi.

ROMULUS 14541

Direction: --Vista ID: 1356147

Media Affected

: GROUNDWATER : TANK FAILURE

Leak Cause

: NON-COMMERCIAL INDUSTRY

Leak Source Remediation

Discovery Date

: CASE CLOSED/CLEANUP COMPLETE

Substance

: 03/27/92 : FUEL OIL #2

Quantity

: 75.00 GALLONS

Media Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

Owner Name Owner Address : CASE CLOSED/CLEANUP COMPLETE

3

SENECA ARMY DEPOT

RONULUS 14541

Distance: 0.00 mi.

Direction: --

Vista ID: 1521704

9400104

ROUTE 96 SENECA ARMY DEP

L'SENECA ARMY DEPOT

ROMULUS : 04/04/94

Discovery Date Substance

: FUEL OIL #2

Quantity

: 100.00 . GALLONS

Media Affected Leak Cause

: SURFACE WATER : TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Owner Name Owner Address : IT CORPORATION : 140 ALLENS CREEK RAD

ROCHESTER, NY

Discovery Date Substance

: 09/15/93 : FUEL OIL #2

Quantity

GALLONS : 20.00

Media Affected

: SOIL/LAND/SAND : TANK FAILURE

Leak Cause Leak Source

: NON-CONMERCIAL INDUSTRY

Remediation · Discovery Date : CASE OPEN

: 11/19/92

Substance

: FUEL OIL #2

LUST

MAP EPA ID / REF #

AGENCY ID

SITE NAME AND ADDRESS

WITHIN 1/4 HILE

3

SENECA ARMY DEPOT

ROUTE 96A AIRFD BLDG 2305

ROMULUS 14541

Distance: O.OD mi.

Direction: --

Vista ID: 1521704

Quantity

. : 1700.00 GALLONS

Media Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

SENECA ARMY DEPOT

SENECA ARMY DEPOT

ROMULUS

0.00 mi. Distance:

14541

Direction: --Vista 10: 2736222

Owner Name

: SEKECA ARMY DEPOT

Owner Address

Discovery Date : 06/11/92

Substance

: FUEL OIL #2

Media Affected

: GROUNDWATER

Leak Cause Leak Source : TANK FAILURE : NON-COMMERCIAL INDUSTRY

Remediation

: CASE OPEN

3

SENECA ARMY DEPOT

2452 QUARTERS AREA

ROMULUS 14541

0.00 mi. Distance:

Direction: --

Vista ID: 3539976

9204266

8904332

Owner Name

: U S ARHY

Owner Address

: SAME

Discovery Date

: 07/14/92

Substance

: FUEL OIL #2

Media Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: HON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

Page: 12

LUST

MAP EPA ID / REF #

AGENCY ID

SITE NAME AND ADDRESS

WITHIN 1/4 HILE

3

8907242

8907722

SENECA ARMY DEPOT BLDG 710

Owner Name

ROHULUS

Distance: 0.00 mi.

Direction: --Vista ID: 4112546

14541

: SENECA ARMY DEPOT

Owner Address

ROMULUS NY

Discovery Date Substance Media Affected

: 10/20/89 : FUEL OIL #2 : SOIL/LAND/SAND

Leak Cause Leak Source Remediation : TANK FAILURE : NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

3

SENECA ARMY DEPOT

BLDG 806

ROMULUS 14541

Distance: 0.00 mi.

Vista ID: 4112547

Direction: --

Owner Name : SENECA ARMY DEPOT

Owner Address

: ROMULUS NY

Discovery Date : 11/01/89

Substance : FUEL OIL #2 **Media Affected** : GROUNDWATER Leak Cause : TANK FAILURE

Leak Source Remediation : NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

3

SENECA ARMY DEPOT

BUILDING #212

ROMULUS 14541

Distance: 0.00 mi.

Direction: --

Vista ID: 4112548

8910053

Owner Name

Substance

: SENECA ARMY DEPOT

Owner Address

Discovery Date

: 01/19/90 : FUEL OIL #2

Media Affected

: STREET/GUTTER/SEWER

Leak Cause

: TANK FAILURE

Leak Source

: NON-COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

HIST

MAP EPA ID /

AGENCY ID

SITE NAME AND ADDRESS

WITHIN 1/4 NILE

3

SENECA ARMY DEPOT BG 2079

SENECA ARMY BLDG 2079

ROMULUS 14541

Distance: 0.00 mi.

Direction: --

Vista ID: 4719832

9307375

: SENECA ARMY DEPOT

Discovery Date Substance

Owner Address

Owner Name

: 09/17/93 : FUEL OIL #6

Media Affected Leak Couse

: SOIL/LAND/SAND : TANK FAILURE

Leak Source Remediation : NON-COMMERCIAL INDUSTRY : CASE CLOSED/CLEANUP COMPLETE

WITHIN 1/2 TO 4.5 MILES

2

CLARK (GEORGE) RESIDENCE

4910 SECOR ROAD

VARICK

Distance: 2.88 mi.

Direction: N

Vista 10: 5320457

9410950

Discovery Date

: 11/15/94

Substance

: PETROLEUM : GROUNDWATER

Hedia Affected Leak Cause

: TANK FAILURE

Leak Source

Remediation

: PRIVATE DWELLING

. : CASE OPEN

SPLIT PINE FARMS SPLIT PINE, MCGRANE RD ROMULUS 14541

Distance: 3.80 mi.

Direction: NW Vista ID: 2736503

8607945

Owner Name

: SPLIT PINE FARMS

Owner Address

: MCGRANE RD

Discovery Date

ROMULUS

Substance

: 03/27/87 : DIESEL

Hedia Affected

: GROUNDWATER

Leak Cause

: TANK FAILURE

Leak Source

: COMMERCIAL INDUSTRY

Remediation

: CASE CLOSED/CLEANUP COMPLETE

VISTA Report #: 6/088933-001

11/07/95

Page: 14

LUST MAP EPA ID / REF # AGENCY ID SITE NAME AND ADDRESS FIREEE WITHIN 1/2 TO 4.5 HILES 5 NYS PARKS & REC - SAMPSON ST ROMULUS Distance: 2.97 mi. 6096 RTE 96A 14541 Direction: SW Vista ID: 366339 9000052 Owner Name : SAMPSON STATE PARK Owner Address : RT 414 DRESDEN, NY Discovery Date : 03/01/90 Substance : GASOLINE (UNSPECIFIED) Hedia Affected : GROUNDWATER Leak Cause : TANK FAILURE Leak Source : NON-COMMERCIAL INDUSTRY Remediation : CASE CLOSED/CLEANUP COMPLETE TOWN OF VARICK 6 **ROMULUS** Distance: 1.94 mi. 4782 ROUTE 96 14541 Direction: NW Vista ID: 3653964 9305503 Discovery Date : 08/03/93 Substance : DIESEL **Media Affected** : GROUNDWATER Leak Cause : TANK FAILURE Leak Source : NON-COMMERCIAL INDUSTRY Remediation : CASE OPEN

For more information call: (619) 450-6100

ribia bepart di orsidali col

HAP	EPA ID /			
REF #	AGENCY ID	SITE HAME AND ADDRESS		
C3253	=============		*******************	**************
		WITHIR 174	MILE	
3.		US ARMY	ROHULUS	Distance: 0.00 mi
	`	SENECA ARMY DEPOT ACTIVITY	14541	Direction: Vista ID: 2495496
	8-416118	Number of Underground Tanks: 175 Number of Aboveground Tanks: 91		11012 101 2175470
		Contents: FUEL GIL, OTHER, UNLEADED GAS, DIES	EL, KEROSENE, EMPTY,	
		WITHIN 1/2 TO 4	.5 HILES	
1		COVERT FARMS	ROMULUS	Distance: 2.45 mi
		5666 RT 414	14541	Direction: SE Vista ID: 744574
	8-118397	Number of Underground Tanks: 1		
		Number of Aboveground Tanks: 5		
		Contents:LEADED GAS, FUEL GIL,	***********	
4		SPLIT PINE FARMS	ROMULUS	Distance: 3.80 mi
		4685 MCGRÁNE ROAD	14541	Direction: NW Vista ID: 741852
	8-052140	Number of Underground Tanks: 3		VISTA 10: 741032
	0 052140	Number of Aboveground Tanks: 0		
		Contents:LEADED GAS, FUEL OIL,		
5		NYS OFFICE OF PARKS & RECREATION	ROMULUS	Distance: 2.97 mi
		SAMPSON STATE PARK	14541	Direction: SW Vista ID: 4122766
				71000 000 7124100
	8-264644	Number of Underground Tanks: 12		•
	8-264644	Number of Underground Tanks: 12 Number of Aboveground Tanks: 8		

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VISTA Report #: 6/088933-001

Date of Report: 11/07/95

UNMAPPABLE SITES

Unmappable sites are environmental risk sites that cannot be geocoded, but can be located by zip code or city name.

In general, a site cannot be geocoded because of inaccurate or missing locational information in the record provided by the agency. For many of these records, VISTA has corrected or added locational information by using U.S. Postal address validation files and proprietary programming that adds locational information from private industry address files. However, many site addresses cannot be corrected using these techniques and those sites cannot be mapped.

Of the sites that cannot be mapped, VISTA identifies those that have complete zip code or city name information. All ungeocoded sites that have a ZIP code in the radius are considered for inclusion. Ungeocoded sites that do not have a ZIP code but do have a street name are considered for inclusion if they have a city in the radius. An ungeocoded record may be excluded if it can be determined to be outside the relevant radius searched for a particular database.

INVADADAN E SITES

11/07/95

Page: 1

RCRA-LgGen

SITE NAME AND ADDRESS	VISTA ID	EPA ID / AGENCY ID
NYSDOT BIN 4035060: RTE 96 & CAYUGA SENECA CANAL, WATERLOO 13165	3693711	
Generator Class :Generators who generate at least 1000 kg./month of non-acutely haz waste (or 1 kg./month of acutely hazardous waste).	ardous	HYD986966190
, 4	*********	
HYSDOT BIN 1035080: RTE 96 OVER THE SENECA RIVER, WATERLOO 13165	5190881	
Generator Class :Generators who generate at least 1000 kg./month of non-acutely haz waste (or 1 kg./month of acutely hazardous waste).	ardous	NY0000234906

RCRA-Sagen

SITE NAME AND ADDRESS VISTA ID

EPA ID / AGENCY ID

MYSDEC REGION 8: NORTH SIDE OF WHITE RD, VARICK 99999

4875100

Generator Class

:Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste

NY0000182725

For more information call: (619) 450-6100

VISTA Report #: 6/088933-001

UNMAPPABLE SITES

11/07/95

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9012605

8709283

9200234

1531487

2723940

2730737

LUST *

SITE NAME AND ADDRESS VISTA ID AGENCY ID

ELMORE (WILLIE) RESIDENCE: ROUTE 414, ROMULUS 14541

Owner Name : MARSHA & WILLIE ELNO

Owner Address : BOX 213, ROUTE 414

ROMULUS, NY 14541

Discovery Date : 03/07/91 Substance : FUEL OIL #2

Quantity : 20.00 GALLONS
Media Affected : SOIL/LAND/SAND
Leak Cause : TANK FAILURE

Leak Source : PRIVATE DWELLING

Remediation : CASE CLOSED/CLEANUP COMPLETE

WILLARD PSYCHIATRIC CTR: LAUNDRY BUILDING, ROMULUS 14541

Owner Name : WILLARD PSYCHIATRIC

. Owner Address

ROMULUS, NY

Discovery Date : 01/26/88
Substance : FUEL OIL #2
Media Affected : GROUNDWATER

Leak Cause ; TANK FAILURE

Leak Source : NON-COMMERCIAL INDUSTRY
Remediation : CASE CLOSED/CLEANUP COMPLETE

WILLARD PSYCHIATRIC CTR: ROUTE 96A POWER PLANT, ROMULUS 14541

Discovery Date : 03/23/95

Substance : FUEL OIL #2

Media Affected : SOIL/LAND/SAND
Leak Cause : TANK FAILURE

- Leak Source : COMMERCIAL INDUSTRY

Remediation : CASE OPEN Discovery Date : 03/20/95

Substance : GASOLINE (UNSPECIFIED)

Media Affected : SOIL/LAND/SAND Leak Cause : TANK FAILURE

Leak Source : COMMERCIAL INDUSTRY

Remediation : CASE OPEN
Discovery Date : 03/16/95

11/07/95

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LUST

EPA ID / VISTA ID AGENCY ID SITE NAME AND ADDRESS ----SEE========= WILLARD PSYCHIATRIC CTR: ROUTE 96A POWER PLANT, ROMULUS 14541 2730737 Substance : GASOLINE (UNSPECIFIED) Media Affected : GROUNDWATER Leak Cause : TANK FAILURE Leak Source : NON-COMMERCIAL INDUSTRY Remediation : CASE OPEN LAMOREAUX/QUINN: ROUTE 414, ROMULUS 14541 2733189 8707060 : LAMOREAUX/QUINN Owner Name : 229 HAIN STREET Owner Address TRUMANSBURG NY 14880 Discovery Date : 11/19/87 : GASOLINE (UNSPECIFIED) Substance Media Affected : GROUNDWATER : TANK FAILURE Leak Cause : COMMERCIAL INDUSTRY Leak Source : CASE CLOSED/CLEANUP COMPLETE Remediation SENECA COUNTY HGWY DEPT: SENECA COUNTY HGWY DEPT, ROMULUS 14541 2736219 8706927 : SENECA COUNTY HGWY D Owner Name Owner Address ROMULUS NY Discovery Date : 11/13/87 : GASOLINE (UNSPECIFIED) Substance Media Affected : GROUNDWATER Leak Cause : TANK FAILURE : NON-COMMERCIAL INDUSTRY Leak Source : CASE CLOSED/CLEANUP COMPLETE

DONALD BAKER RESIDENCE: HAHNEL ROAD, ROMULUS 14541

5418957

7980115

Owner Name

: DOWALD BAKER RESIDEN

Owner Address

: HAHNEL RD

ROMULUS NY

Substance

: KEROSENE

Kedia Affected

: GROUNDWATER

For more information call: (619) 450-6100

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VISTA Report #1: 6/088933-001

UNMAPPABLE SITES

11/07/95

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SITE NAME AND ADDRESS

EPA ID /

VISTA ID

AGENCY ID

DONALD BAKER RESIDENCE: HANNEL ROAD, ROMULUS 14541

5418957

Leak Cause Leak Source : TANK FAILURE

: PRIVATE DWELLING

Remediation

: CASE CLOSED/CLEANUP COMPLETE

11,517.5

SULF

EPA ID / SITE NAME AND ADDRESS VISTA ID AGENCY ID ========== AUBURN SLF (C): , 3502176 Facility Status : INACTIVE 06\$01 Waste Type 1 : RESIDENTIAL : CITY OF AUBURN Owner Name Owner Address : APPLETON T.S.: , 3502196 Facility Status : ACTIVE 62R01 Waste Type 1 : RESIDENTIAL Owner Name : APPLETON DISPOSAL SE Owner Address 2 CANANDAIGUA (T) R.T. #1: , 3502244 . 35R13 Facility Status : ACTIVE Waste Type 1 : RESIDENTIAL Owner Name : TOWN OF CANANDAIGUA Owner Address 3502245 CANANDAIGUA (C) R. TRANS.: , Facility Status : ACTIVE 35R12 Waste Type 1 : RESIDENTIAL Owner Name : CITY OF CANANDAIGUA Owner Address : : , SENECA, WAYNE, YATES COUNT 3998486 : INCINERATOR Facility Type Facility Status : INACTIVE

11/07/95

VISTA Report #: 6/088933-001

UNMAPPABLE SITES

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SALE

SITE NAME A	AND ADDRESS		VISTA ID	EPA ID / AGENCY ID
2312222222		***************************************	822222322	*********
AUBURN SLF	NO. 2 (C): ,		4898076	
	Facility Status	: ACTIVE ,		06814
	Waste Type 1	: RESIDENTIAL		
	Owner Name	: CITY OF AUBURN		
	Owner Address			
***********				********
LOCKWOOD AS	H DISP SITE: ,	. •	4898207	
	Facility Status	: ACTIVE		62NO1-
	Waste Type 1	: BOTTOM ASH		
	Owner Name	: NYS ELECTRIC & GAS C		
	Owner Address	1		
*****	***************************************			
SUPERIOR DIS	SP. T.S.: ,		5156807	
	Facility Status	: ACTIVE		50T01
	Waste Type 1	: RESIDENTIAL		
	Owner Name	; RICHARO SEYMOUR		
	Owner Address	:		

BRILLO LANDE	FILL: ,		5619479	
	Facility Status	: INACTIVE		06\$13
	Owner Name	: JOSEPH BRILLO		
	Owner Address	•	· .	
CANANDAIGUA	C & D SITE: ,		5619523	***************************************
	Facility Status			35001
	Waste Type 1	: CONSTRUCTION/DEMO		

VISTA Report #: 6/088933-001

Facility Status : INACTIVE

.

Owner Address

UNMAPPABLE SITES

SWLF

EPA ID /

62\$70

5619934

SITE NAME AND ADDRESS AGENCY 1D CANANDAIGUA SLF (T): , 5619524 Facility Status : INACTIVE 35503 Owner Name : TOWN OF CANANDAIGUA Owner Address ONTARIO CO. #2: , 5619806 Facility Status : INACTIVE 35\$17 Owner Name : ONTARIO COUNTY ENV Q Owner Address 5619922 TRANSELCO INC.: ,

VICTORY SLF: ,

06810 Facility Status : INACTIVE

5619941 VARICK LF (T): ,

> Facility Status : INACTIVE 50\$10 Owner Name : VARICK

Owner Address <u>.</u>

5620651 (T): TOWN HALL, ROMULUS 14541 ROMULUS LF

> 50806 Facility Status : INACTIVE

Owner Name : TOWN OF RONULUS

VISTA Report #1 6/088933-001

UNMAPPABLE SITES

11/07/95

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UST/S

SITE NAME AND ADDRESS .	VISTA ID	EPA ID / AGENCY ID
SENECA COUNTY: HIGHWAY DEPARTMENT, RONULUS 14541	3634109	
Number of Underground Tanks: 5 Number of Aboveground Tanks: 1 Contents:UNLEADED GAS,DIESEL,FUEL CIL,		8-052833
NYS OFFICE OF PARKS REC HIST PRES: SENECA LAKE STATE PARK, GENEVA 14456	3936085	
Number of Underground Tanks: 3 Contents:FUEL OIL,UNLEADED GAS,DIESEL,		8-501352
TRY-US FOOD & FUEL: SMITH WEATHERBY INC, ROMULUS 14541	4122786	
Number of Underground Tanks: 7 Contents:UNLEADED GAS,EMPTY,		8-102318
TOWN OF VARICK: HIGHWAY GARAGE, ROMULUS 14541	4259680	
Number of Underground Tanks: 3 Number of Aboveground Tanks: 5 Contents:UNLEADED GAS,DIESEL,FUEL DIL,		8-426350

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DESCRIPTION OF DATABASES SEARCHED

Below are general descriptions and search parameters of the federal and state databases that VISTA searches for the National Radius Report.

FEDERAL DATABASES

Please check the "Summary of Environmental Risks Found" matrix on the cover of this profile to determine the specific dates of the federal databases searched for this profile.

U.S. EPA: NPL

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial action under the Superfund Program. A site, to be included on the NPL, must either meet or surpass a predetermined hazard ranking systems score, or be chosen as a state's top-priority site, or meet all three of the following criteria:

- The US Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure.
- 2) The EPA determines that the site represents a significant threat.
- 3) The EPA determines that remedial action is more cost-effective than removal action.

U.S. EPA: CERCLIS

The CERCLIS List is a compilation by the EPA of the sites which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA or Superfund Act).

· · U.S. EPA: RCRA (RCRIS/HWDMS)

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U.S. EPA: ERNS

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported accidental releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation.

STATE DATABASES

Please check the "Databases Searched" to determine if the following type of databases are available from VISTA for the state in which the subject property of this report is located. Please note that if the Summary does not list one of the following databases, it is not currently available. You may also determine the specific names and dates of the databases searched for this profile in the summary.

STATE: SPL

The State Priority List is a generic name for databases maintained by many states that contain sites considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment. These sites are generally listed by the state to warn the public or as a part of an investigation and cleanup program managed by the state.

STATE: LUST

This is a database maintained by state or local agencies of known or suspected leaking underground storage tanks.

STATE: UST

This is a database maintained by state or local agencies of registered underground storage tanks.

STATE: SWLF

This is a database maintained by state or local agencies of Solid Waste Landfills, Incinerators, and transfer stations.

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SENECA ARMY DEPOT ACTIVITY

US Army, Engineering & Support Center Huntsville, AL



Seneca Army Depot Activity Romulus, NY



SEAD 1, 2, 5, 12, 13, 16, 17, 25, 26, 27, 39, 40, 41, 43, 44A, 44B, 52, 56, 59, 62, 64A, 64B, 64C, 64D, 66, 67, 69, 71, 121C, 121I, 122B, 122E, AND THE ASH LANDFILL OPERABLE UNIT (SEADs 3, 6, 8, 14, and 15) SENECA ARMY DEPOT ACTIVITY

Contract No. W912DY-08-D-0003 Task Order No. 0015 EPA Site ID# NY0213820830 NY Site ID# 8-50-006

PARSONS
NOVEMBER 2017

FINAL

FIVE-YEAR REVIEW, SENECA ARMY DEPOT

SEAD 1, 2, 5, 12, 13, 16, 17, 25, 26, 27, 39, 40, 41, 43, 44A, 44B, 52, 56, 59, 62, 64A, 64B, 64C, 64D, 66, 67, 69, 71, 121C, 121I, 122B, 122E, AND THE ASH LANDFILL OPERABLE UNIT (SEADs 3, 6, 8, 14, and 15)

SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK

Prepared for:
U.S. ARMY CORPS OF ENGINEERS

NEW YORK DISTRICT (CENAN)

ENGINEERING AND SUPPORT CENTER HUNTSVILLE, ALABAMA

and

SENECA ARMY DEPOT ACTIVITY ROMULUS, NEW YORK

Prepared by: PARSONS 100 High Street Boston, MA 02110

Contract Number W912DY-08-D-0003 Task Order No. 0015 USEPA Site ID# NY0213820830 NY Site ID# 8-50-006

November 2017

Certification

I certify under penalty of perjury that the controls employed at the Controlled Property are unchanged from the time of implementation or that any changes to the controls employed at the Controlled Property were approved by USEPA and NYSDEC or otherwise documented in this report, and that nothing has occurred that would impair the ability of such control to protect the public health and environment or constitute a violation or failure to comply with the intent of the Remedial Design for such controls and giving access to such Controlled Property to evaluate continued maintenance of such controls.

Shane Blauvelt, P.E NYPE # 087673-1



11/8/2017

Date

Approved for Submittal

BATTAGLIA.RANDALL.W.1228 816724

Digitally signed by BATTAGLIA.RANDALL.W.1228816724 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=BATTAGLIA.RANDALL.W.1228816724 Date: 2017.11.13 07:10:13 -05'00'

Randy Battaglia, PMP Seneca AD BRAC Environmental Coordinator USACE – New York District Date

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rippena.n i	on the control of the

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Appendix Z Ash Landfill Operable Unit (SEADs 3, 6, 8, 14, and 15)

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Attachment 2 Site Inspection Checklist (Site-specific and included in each Appendix)

Attachment 3 Cleanup Levels, Toxicity and Risk Evaluation

Attachment 4 Response to Comments

ACRONYMS AND ABBREVIATIONS

AOC Areas of Concern

AQCR Air Quality Control Region
APCD Air Pollution Control Device

ARAR Applicable or Relevant and Appropriate Requirement

Army U.S. Army

AWQS Ambient Water Quality Standards

BRAC Baseline risk assessment
BRAC Base Realignment and Closure

BTEX benzene, toluene, ethylbenzene, and xylene

CCR Construction Completion Report

CERCLA Comprehensive Environmental Response,

Compensation, and Liability Act

CERFA Community Environmental Response Facilitation Act

cis-DCE cis-dichloroethylene

CLP Contract Laboratory Program COC Contaminant of Concern

COPCs Contaminant of Potential Concern

cPAH Carcinogenic Polycyclic Aromatic Hydrocarbons

CTE Central tendency exposure
DoD Department of Defense
DPW Department of Public Works

DRMO Defense Reutilization and Marketing Office

EBS Environmental Baseline Survey
EPC Exposure point concentration
ESI Expanded site investigation
FFA Federal Facilities Agreement

FS feasibility study

Ft. feet

FYR Five-Year Review
HI Hazard Index

IC Institutional controls

IRFNA Inhibited Red-Fuming Nitric Acid
LDR Landfill Disposal Restrictions
LRA Local Redevelopment Authority
LSP Limited Sampling Program

LTM Long Term Monitoring

LTTD Low Temperature Thermal Desorption

LUC Land Use Control

MCL Maximum contaminant level

NA No Action

NFA No Further Action

NGVD 1929 National Geodetic Vertical Datum

NCP National Contingency Plan
NCFL Non-Combustible Fill Landfill
NTCRA Non-Time Critical Removal Action

NPL National Priorities List

NY New York

NYCRR New York State Codes, Rules and Regulations

NYS New York State

NYSDEC New York State Department of Environmental

Conservation
OB Open Burning

OE Ordnance and Explosives

OSWER Office of Solid Waste and Emergency Response

OU Operable Unit

PAH Polycyclic Aromatic Hydrocarbon
Parsons Parsons Government Services
PCB Polychlorinated biphenyl

PFAS Perfluroalkyl substances

PID Planned Industrial/Office Development Warehousing

Area

QA quality assurance RA Remedial action

RAO Remedial Action Objectives

RCRA Resource Conservation and Recovery Act

RD Remedial Design

RDR Remedial Design Report RI Remedial investigation

RME Reasonable maximum exposure

ROD Record of Decision

RSL Regional Screening Level

SAR Small Arms Range

SEDA Seneca Army Depot Activity

SCIDA Seneca County Industrial Development Agency

SCO Soil Cleanup Objective SI Site Investigation

SLERA Screening level ecological risk assessment SRI Supplemental Remedial Investigation

SWMUs Solid Waste Management Units

SOW Statement of work

SVOC	Semi Volatile Organic Compounds
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target analyte list
TCE	Trichloroethylene
TCL	Target compound list
TCLP	Toxicity Characteristic Leaching Procedure
TCRA	Time critical removal action
TPH	total petroleum hydrocarbons
TSDF	Treatment, storage, and disposal facility
UCL	Upper Confidence Limit
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
UXO	unexploded ordnance
VC	Vinyl Chloride
VOC	Volatile Organic Compounds
ZVI	Zero-Valence Iron

Five-Year Review Summary Form

SITE IDENTIFICATION			
Site Name: Seneca A	Site Name: Seneca Army Depot		
EPA ID: NY0213	320830		
Region: 2	State: NY	City/County: Romulus/Seneca	
		SITE STATUS	
NPL Status: Final			
Multiple OUs? Yes	Has t	he site achieved construction completion? N/A	
	R	EVIEW STATUS	
Lead agency: Other Federal Agency [If "Other Federal Agency", enter Agency name]: U.S. Army			
Author name (Federal or State Project Manager): U.S. Army Corps of Engineers			
Author affiliation:			
Review period: 9/1/2011 to 9/1/2016			
Date of site inspection: 6/1/2015 and 6/2/2015			
Type of review: Post-SARA			
Review number: 2(second)			
Triggering action date: N/A			
Due date (five years after triggering action date): N/A			

Seneca Army Depot Activity (SEDA) is organized into six areas which have common or similar land use and Land Use Controls (LUC). The LUC objectives are summarized in each section below as defined in the applicable Record of Decision (ROD) for each AOC. The six areas and the AOCs within them are organized as follows:

- Planned Industrial/Office Development (PID) and Warehousing Area: SEADs 1, 2, 5, 16, 17, 25, 26, 27, 39, 40, 59, 64A, 66, 67, 71, 121C, and 121I
- Prison Area: SEADs 43, 44A, 44B, 52, 56, 62, 64C, and 69;
- Airfield Parcel: SEADs 122B and 122E;

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- Ash Landfill Operable Unit: SEADs 3, 6, 8, 14, and 15;
- North End Institutional Area: SEAD-41; and
- Other Areas: SEADs 12, 13, 64B and 64D.

SEDA consists of 22 Operable Units (OU) and 84 SEADs or Areas of Concern (AOCs). Historically, the remedial approach was targeted at individual or groups of AOCs and not by the OU designation. Each AOCs OU is shown in Table 3 of the Five-Year Review. For consistency with the historical designations used throughout the site and remedial investigation documents, construction completion reports, and RODs, the issues/recommendations and protectiveness statements are per AOC instead of per OU.

Issues/Recommendations

OU(s) without Issues/Recommendations Identified in the Five-Year Review:

No issues were identified for AOCs within the PID/Warehousing Area, Prison Area, Airfield Parcel, Ash Landfill, North End Institutional Area, and SEADs 12, 13, 64B and 64D during this Five-Year Review that would affect the protectiveness of the remedy.

The Army has the following recommendations:

Continue the implementation of LUCs and the annual frequency of periodic reviews.

In addition, the following are recommendations that impact monitoring, but do not affect current protectiveness and were identified during the five-year review:

- At SEAD-16/17, the Army proposes to conclude annual groundwater LTM. The wells will not be decommissioned at this time in the event that sampling of emergent contaminants is necessary or reevaluation of the site during the 2021 five-year review.
- At SEAD-25, the Army proposes to conclude annual groundwater LTM. The wells will not be decommissioned at this time in the event that sampling of emergent contaminants is necessary or reevaluation of the site during the 2021 five-year review.
- At SEAD-23 (OB Grounds), the Army proposes to terminate annual groundwater LTM. The wells will not be decommissioned at this time in the event that sampling of emergent contaminants is necessary or reevaluation of the site during the 2021 five-year review. Soil cover inspections will continue and be performed as part of annual LUC inspections. A review of the continued soil cover inspections will be provided in the third Five-Year Review in 2021.
- At SEAD-25, SEAD-26, and SEAD-122E, the EPA requested that the Army sample for

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emerging contaminants. The Army has agreed to sample for perfluorinated chemicals at these three AOCs within SEDA where former fire training activities were conducted.

	Protectiveness Statement(s)	
Operable Unit: See Appendices	Protectiveness Determination: See Appendices	Addendum Due Date (if applicable): See Appendices

Protectiveness Statement:

Based upon the review of the CERCLA sites at the former SEDA conducted by the Army, it has been determined that the remedies selected for the LUC/IC and LTM sites at the former SEDA remain protective of human health and the environment.

The remedy implemented for the AOCs included in the PID Warehousing Areas, Prison Area, Airfield Parcel, Ash Landfill Operable Unit, North End Institutional Area, and SEAD-12, SEAD-13, SEAD-64B, and SEAD-64D is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

Sitewide Protectiveness Statement	
Protectiveness Determination: N/A	Addendum Due Date (if applicable): N/A
Protectiveness Statement: N/A	

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1.0 EXECUTIVE SUMMARY

This is the second Five-Year Review (FYR) for the former Seneca Army Depot Activity (SEDA) Site located in Romulus, New York (Figure 1). The purpose of this FYR is to review information to determine if the remedies are and will continue to be protective of human health and the environment. The triggering action for this statutory FYR was the completion of the first FYR in September 2011.

This review found that the Operable Units (OUs) remedies are functioning as intended by the Decision Documents, and are protective of human health and the environment. The exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the signature of the Record of Decision (ROD) are still valid. There have been no changes in the exposure pathway, in the physical conditions of the site since completion of the remedial action activities, and in the implementation of LUCs that would affect the protectiveness of the remedies. In addition, as of June 2016, future land use has changed in the town of Varick. North of County Road 132 (Colonel's road on the Depot and between B block and C block of igloos) will be designated as Conservation. The primary planned use for the area south of County Road 132, in the "Conservation/Recreation" area, will be farming.

2.0 INTRODUCTION

Parsons Government Services (Parsons), in consultation with the U.S. Army (Army), conducted this FYR pursuant to Section 121 (c) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended, Section 300.430 (f) (4) (ii) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Office of Solid Waste and Emergency Response (OSWER) Directive 9355.7-03B-P (June 2001). The purpose of a FYR is to evaluate the implementation and performance of a remedy in order to determine if the remedy is or will be protective of human health and the environment. Protectiveness is generally defined in the NCP by the risk range and the hazard index (HI). The risk range and HI are estimated to determine the incremental probably of an individual developing health effects (carcinogenic or non-carcinogenic) over a lifetime because of exposure to a chemical of concern. Evaluation of the remedy and the determination of protectiveness should be based on and sufficiently supported by the data and observations. The FYR is required because hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure. This document will become part of the Administrative Record for the former SEDA Site.

The CERCLA sites will be reviewed individually within subgroups organized as follows:

- Land-Use Control (LUC)/Institutional Control (IC) and Long-Term Monitoring and Maintenance (LTMM) Sites, and
- Pre-ROD Sites: Sites with RODs pending or planned.

In 1995, SEDA was designated for closure under the Department of Defense's (DoD's) Base Realignment and Closure (BRAC) process. To address employment and economic impacts associated with the SEDA's closure, the Seneca County Board of Supervisors established the Seneca Army Depot Local

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Redevelopment Authority (LRA) in October 1995. The primary responsibility assigned to the LRA was to prepare a plan for redevelopment of the SEDA property. Following a comprehensive planning process, a Reuse Plan and Implementation Strategy for Seneca Army Depot was completed and adopted by the LRA on October 8, 1996. The Seneca County Board of Supervisors subsequently approved this Reuse Plan on October 22, 1996. In 2005, after it had acquired portions of the former Depot from the Army, the Seneca County Industrial Development Agency (SCIDA) changed the planned use of land in many portions of the Depot. **Figure 2** depicts the intended future land uses for SEDA, as modified by the SCIDA.

The CERCLA Sites requiring a FYR are provided in **Table 1** and a site chronology is presented in **Table 2**. A listing of all historic areas of concern (AOCs) that have been subject of CERCLA investigations at the Depot and their current deposition is provided in **Table 3**.

SEDA consists of 22 OUs and 84 SEADs or Areas of Concern (AOCs). Historically, the RODs generally combined AOCs by OU and added NA/NFA Sites based on timing; however, the remedial approach was targeted at individual or groups of AOCs and not by the OU designation. Each AOCs OU is shown in **Table 3** of the FYR. For consistency with the historical designations used throughout the site and remedial investigation documents, Construction Completion Reports (CCR), and RODs, the issues/recommendations and protectiveness statements are per AOC instead of per OU.

As of the date of this Report, RODs have been signed for 76 out of 84 AOCs at SEDA. AOCs with signed RODs are listed in **Table 1**. Consistent with CERCLA requirements, a five-year statutory review is required for a site with a ROD signed on or after October 17, 1986 if upon completion of the remedial action, hazardous substances, pollutants, or contaminants will remain on site. Of the 76 AOCs, four AOCs were delisted from the NPL in 1998 to due reuse initiatives; SEAD-50 and SEAD-54 were delisted for a sheriff's office, and SEAD-24 and SEAD-58 were delisted for a planned ethanol plant. As such, this document provides a FYR for the 38 AOCs listed in **Table 1** that require a FYR. Of the remaining 44 AOCs, 38 (40 sites, SEAD-65A, B, and C) AOCs have been closed with a No Action (NA) or No Further Action (NFA) determination and are not addressed in this review (Parsons, 2003). There are six OUs that currently are under assessment and do not have signed RODs as of the date of this FYR. Although the signed ROD for SEAD-23 does not have established LUCs, the ROD specifies Operations and Maintenance requirements, and therefore, SEAD-23 was inspected as part of this FYR.

3.0 REPORT STRUCTURE

The report is organized such that general information and summary statements common to all the AOCs are contained in the main body of the report. Each AOC with LUC requirements is detailed in a dedicated appendix. The appendices are organized into six areas which have common or similar land use and LUCs. The six areas and the AOCs within them are organized as follows:

- Appendices A through O Planned Industrial/Office Development (PID) and Warehousing Area:
 SEADs 1, 2, 5, 16, 17, 25, 26, 27, 39, 40, 59, 64A, 66, 67, 71, 121C, and 121I;
- Appendices P through U Prison Area: SEADs 43, 44A, 44B, 52, 56, 62, 64C, and 69;
- Appendix V, X, Y, and AB Other Areas: SEADs 13, 64B and 64D, 23, and 12;

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- Appendix W North End Institutional Area: SEAD-41;
- Appendix Z Ash Landfill Operable Unit: SEADs 3, 6, 8, 14, and 15; and
- Appendix AA Airfield Parcel: SEADs 122B and 122E.

Each appendix reviews the area-specific background information, basis for taking action, summary of remedial actions, and technical assessment for the applicable AOC(s). The structure of the appendices are as follows:

- 1.0 Area Specific Background Information
 - 1.1 History of Contamination
 - 1.2 Initial Response
 - 1.3 Basis for Taking Action
 - 1.3.1 Contaminants of Concern
 - 1.3.2 Human Health and Ecological Risk Assessment
- 2.0 Remedial Actions
 - 2.1 Remedy Selection
 - 2.2 Remedy Implementation
 - 2.3 System Operations/Operation and Maintenance
- 3.0 Progress Since Last Five-Year Review
 - 3.1 Recommendations
 - 3.2 Progress on Recommendations
- 4.0 Five-Year Review Process
 - 4.1 Document Review
 - 4.2 Data Review
 - 4.3 Site Inspection
 - 4.4 Interviews
 - 4.5 Institutional Controls Verification
- 5.0 Technical Assessment
 - 5.1 Question A: Is the remedy functioning as intended by the decision documents?
 - 5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?
 - 5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?
 - 5.4 Issues, Recommendations and Follow-Up Actions
 - 5.5 Protectiveness Statement

In each appendix, the FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**. **Table 4** presents the photo log captions briefly describing the subject of the photographs, and if there have been any changes to the site as documented in the photo that would affect the protectiveness of the remedy. **Figure 3** identifies the CERCLA sites

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reviewed in the FYR with the corresponding LUCs or ICs required by the RODs or are expected to be required (for sites currently awaiting ROD issuance).

4.0 GENERAL BACKGROUND

4.1 **Physical Characteristics**

SEDA is located approximately 40 miles south of Lake Ontario, near Romulus, New York (NY) as shown in Figure 1. The Depot lies immediately west of the Town of Romulus, NY, 12 miles south of the villages of Waterloo and Seneca Falls, and 2.5 miles north of the Town of Ovid, NY. The two closest major cities are Rochester, NY, which is located approximately 60 miles northwest, and Syracuse, NY, which is located approximately 60 miles northeast. Prior to the acquisition of the land by SEDA in 1941, the property was privately owned and was used principally as homesteads and for agriculture.

SEDA is located in an uplands area, where the elevation ranges from approximately 600 feet (ft.) National Geodetic Vertical Datum (NGVD 1929) along the western boundary of the Depot to nearly 760 feet NGVD 1929 in the central portion of the eastern boundary. The uplands area where SEDA is located forms a divide separating two of the New York Finger Lakes: Cayuga Lake on the east and Seneca Lake on the west. Sparsely populated farmland covers most of the surrounding area. New York State Highways 96 and 96A border SEDA to the east and west, respectively. Figure 4 presents an aerial view of SEDA.

Pleistocene age (Wisconsin event, 20,000 years ago) glacial till deposits overlies the shale. SEDA lies on the western edge of a large glacial till plain between Seneca Lake and Cayuga Lake. The till matrix, the result of glaciations, varies locally but generally consists of horizons of unsorted silt, clay, sand, and gravel. The soils at SEDA contain varying amounts of inorganic clays, inorganic silts, and silty sands. In the central and eastern portions of SEDA, the till is thin and bedrock is exposed or within 3 feet of the surface. The thickness of the glacial till deposits at SEDA generally ranges from 1 to 15 feet.

Darien silt-loam soils, 0 to 18 inches thick, have developed over Wisconsin age glacial tills. These soils are developed on glacial till where they overlie the shale. In general, the topographic relief associated with these soils is from 3 to 8 percent (%).

A cool climate exists at SEDA with temperatures ranging from an average of 23°F in January to 69°F in July. Marked temperature differences are found between daytime highs and nighttime lows during the summer and portions of the transitional seasons. Precipitation is well distributed, averaging approximately 3 inches per month. This precipitation is derived principally from cyclonic storms, which pass from the interior of the county through the St. Lawrence Valley. Seneca, Cayuga, and Ontario Lakes provide a significant amount of the winter precipitation and moderate the local climate. The annual average snowfall is approximately 100 inches. Wind velocities are moderate, but during the winter months, there are numerous days with sufficient winds to cause blowing and drifting snow. The most frequently occurring wind directions are westerly and west southwesterly.

SEDA is located in the Genesee-Finger Lakes Air Quality Control Region (AQCR). The AQCR is designated as non-attainment for ozone and attainment or unclassified for all other criteria pollutants. Data for the existing air quality in the area that surrounds the SEDA cannot be obtained since the nearest state air

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4.2 Site Geology/Hydrogeology

The Finger Lakes uplands area is underlain by a broad north-to-south trending series of rock terraces mantled by glacial till. As part of the Appalachian Plateau, the region is underlain by a tectonically undisturbed sequence of Paleozoic rocks consisting of shale, sandstone, conglomerate, limestone, and dolostone. In the vicinity of SEDA, Devonian age (approximately 385 million years ago) rocks of the Hamilton Group are monoclinally folded and dip gently to the south. The Hamilton Group is a sequence of limestone, calcareous shale, siltstone, and sandstone.

SEDA geology is characterized by gray Devonian shale with a thin weathered zone where it contacts the overlying mantle of Pleistocene glacial till. This stratigraphy is consistent over the entire SEDA facility. The predominant surficial geologic unit present at the site is dense glacial till. The till is distributed across the entire facility and ranges in thickness from less than 2 feet to as much as 15 feet although it is generally only a few feet thick. The till is generally characterized by brown to gray-brown silt, clay and fine sand with few fine-to-coarse gravel-sized inclusions of weathered shale. Larger diameter weathered shale clasts (as large as 6-inches in diameter) are more prevalent in basal portions of the till.

The bedrock underlying the Site is composed of the Ludlowville Formation of the Devonian age, Hamilton Group. Regionally, the bedrock is vertically jointed in three predominant directions: northeast, north-northwest, and east-northeast (Mozola, 1951; Merin, 1992). The Hamilton Group is a gray-black, calcareous shale that is fissile and exhibits parting (or separation) along bedding planes.

Regionally, four distinct hydrologic units have been identified within Seneca County (Mozola, 1951). These include two distinct shale formations, a series of limestone units, and unconsolidated beds of Pleistocene glacial drift. Overall, the groundwater in the county is very hard, and therefore, the quality is minimally acceptable for use as potable water.

Regionally, the water table aquifer of the unconsolidated surficial glacial deposits of the region would be expected to flow in a direction consistent with the ground surface elevations. Geologic cross-sections from Seneca Lake and Cayuga Lake have been constructed by the State of New York, (Mozola, 1951, and Crain, 1974). The geologic cross-sections suggest that a groundwater divide exists approximately half way between the two Finger Lakes. SEDA is located on the western slope of this divide and therefore regional groundwater flow is expected to be primarily westward towards Seneca Lake. Local hydrogeology is overall consistent with the regional hydrogeology.

Surface drainage from SEDA flows to five primary creeks (see Figure 2). In the southern portion of the Depot, the surface drainage flows through man-made drainage ditches and streams into Indian and Silver Creeks. These creeks then merge and flow into Seneca Lake just south of the SEDA airfield. The central

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part and the administration area of the SEDA drain into Kendaia Creek. Kendaia Creek flows in a predominant westerly direction, and discharges into Seneca Lake at a location north of Pontius Point and the SEDA's former Lake Shore Housing Area. The majority of the northwestern and north-central portion of the SEDA drains into Reeder Creek. Reeder Creek flows predominantly northwesterly and leaves the Depot at a point that is north of the Open Detonation Area (i.e., SEAD-45) and west of the former Weapons Storage Area or the "Q" before it turns to the west and flows into Seneca Lake. The northeastern portion of the Depot, which includes a marshy area called the Duck Pond, drains into Kendig Creek and then flows north into the Cayuga-Seneca Canal and to Cayuga Lake. Other minor creeks are also present and drain portions of the Depot.

4.3 Land and Resource Use

In October 1995, the SEDA was designated for closure under the DoD's 1995 BRAC process. As part of the BRAC process, the Army commissioned an Environmental Baseline Survey (EBS) of the Depot. Under the EBS, all of the property identified as subject to transfer or lease at the facility was classified into one of the seven standard environmental conditions of property area types as defined by the Community Environmental Response Facilitation Act (CERFA) guidance and the DoD BRAC Cleanup Plan Guidebook. This was achieved by identifying, characterizing, and documenting the obviousness of the presence or likely presence of a release or a threatened release of a hazardous substance or petroleum product associated with the historical and current use of SEDA. Areas that were designated as Category 1, 2, 3, or 4 under the CERFA process were suitable for transfer or lease, subject to consideration of the qualifiers. Areas that were designated as Category 5, 6, or 7 were not suitable for transfer, pending further investigation and remediation, as may be needed. The complete details of the EBS are summarized in the document U.S. Army Base Realignment and Closure 95 Program; Environmental Baseline Survey Report, Seneca Army Depot Activity, New York (Woodward-Clyde Federal Services, 1997).

At the completion of the EBS, 113 BRAC parcels of land were identified and classified within the 10,634 acre Depot. Of the total area, approximately 8,690 acres were found to be suitable for lease or transfer (as designated by Categories 1 through 4), while the remaining areas (approximately 1,945 acres) were designated as Categories 5 through 7 and were not deemed suitable for immediate transfer for reuse. Once SEDA was added to the 1995 BRAC list, the Army's primary objective expanded from performing remedial investigations and completing necessary remedial actions to include the release of non-affected portions of the Depot to the surrounding community for their reuse for other, non-military purposes (i.e., industrial, municipal, and residential). The designated future use of land within the SEDA was first defined and approved by the Seneca County LRA in 1996. The planned use for portions of the SEDA was modified by SCIDA in 2005.

Ecological site characterizations conducted at the Depot were based on compilation of existing ecological information and on-site reconnaissance activities. The methods used to characterize the ecological resources included site-walkovers for the evaluation of existing wildlife and vegetative communities; interviews with local, state, and SEDA resource personnel; and review of environmental data obtained from previous Army reports. Ecological communities identified at SEDA included successional old-field areas, successional shrub areas, and successional hardwoods areas. Animals that have been identified at

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the Depot during various ecological surveys include beaver, eastern coyote, white-tailed deer, red and gray fox, eastern cottontail rabbit, muskrat, raccoon, gray squirrel, striped skunk, and the woodchuck. Bird species that have been identified include the blue jay, black-capped chickadee, American crow, mourning dove, northern flicker, ruffed grouse, ring-billed gull, red-tailed hawk, northern junco, American kestrel, white breasted nuthatch, ring-necked pheasant, American robin, eastern starling, turkey vulture, and pileated woodpecker. Vegetation across the Depot consists of successional old field, successional shrub, and successional hardwoods.

SEDA has a strong wildlife management program that is reviewed by the New York State Department of Environmental Conservation (NYSDEC). The Army manages an annual white-tailed deer (Odocoileus virginiana) harvest and has constructed a large wetland called the "Duck Pond" in the northeastern portion of the facility to provide a habitat for migrating waterfowl.

4.4 History of Contamination

Between 1941 and 2000, SEDA was owned by the United States Government and operated by the Department of the Army. The Depot began its primary mission of receipt, maintenance and supply of ammunition in 1943. After the end of World War II, the Depot's mission shifted from supply to storage, maintenance, and disposal of ammunition. SEDA was selected for closure by the DoD in 1995; its military mission terminated in September 1999, and the installation was closed in September 2000.

History of contamination for each AOC is described in further detail in the individual appendices.

4.5 Initial Response

SEDA was proposed for the National Priorities List (NPL) in July 1989. In August 1990, the listing of SEDA as a NPL site was finalized in Group 14 on the Federal Section. After SEDA was listed on the NPL; the Army, U.S. Environmental Protection Agency (USEPA) Region II, and NYSDEC identified 57 Solid Waste Management Units (SWMU) where data or information suggested, or evidence existed to support, that hazardous substances or hazardous wastes had been handled, and where releases to the environment may have occurred. Additionally, the USEPA, NYSDEC, and the Army negotiated and finalized a Federal Facilities Agreement (FFA) for the Site in 1993.

The FFA established if SWMUs required action or not. If no action was required at a SWMU it was closed out under a ROD. If the SWMU required action, it became designated as an AOC. The number of SWMUs (identified with the acronym SEAD and a unique number, SEAD-25) was subsequently expanded to include 72 AOCs once the Army finalized the SWMU Classification Report (Parsons, 1994) for the Depot in 1994.

The SEDA was a generator and a treatment, storage, and disposal facility (TSDF) for hazardous wastes and thus, subject to regulation under the Resource Conservation and Recovery Act (RCRA). Under the RCRA permit system, corrective action is required at all SWMUs, as needed. Remedial goals are the same for CERCLA and RCRA; thus, once the 72 AOCs were listed, the Army recommended that they be identified as either areas requiring No Action or as AOCs under CERCLA and the FFA, where additional investigation, study, or actions were needed. SWMUs listed as AOCs were then scheduled for

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investigations based upon data and potential risks to the environment. The 72 AOCs included four areas (SEAD-12 A and B; SEAD-44 A and B; SEAD-64 A, B, C, and D; and SEAD-65 A, B, and C) that consisted of multiple sites (for a total of 79 sites to be investigated).

Once SEDA was selected and approved for closure as part of the BRAC 1995 process, the Army commissioned an EBS to assess the condition of all property relative to its status under CERFA guidance and the DoD BRAC Cleanup Plan guidebook. At the conclusion of this effort, approximately 1,945 of the 10,634 acres of land within the Depot including all of the land previously designated as SWMUs and several additional properties not previously designated as sites of interest were classified as CERFA Category 5, 6 or 7 sites (i.e., not suitable for transfer, pending further investigation and remediation). Subsequently in 1998, the Army authorized and conducted site inspections and limited site investigations (SI) of 32 additional potential sites identified as CERFA Category 5 – 7 properties, and because of these efforts an additional four sites (SEADs 121C, 121I, 122B, and 122E) were classified as AOCs requiring further assessment and actions under CERCLA.

Per the requirements of BRAC properties, where ordnance had been located, the Army also commissioned an Ordnance and Explosives (OE) Archives Search and conducted site inspections to: 1) identify all areas where ordnance activities occurred; 2) assess the likelihood that ordnances remained due to historic activities; and 3) make recommendations regarding the areas that required further action or investigation. Based on these assessments and evaluations, two additional SWMUs (SEAD-007-R-01, and SEAD-002-R-01 that consisted of two separate areas, EOD-2 and EOD-3) were added to the list of sites that were to be assessed under CERCLA. Additionally, the DOD Munitions Response program required the Army to rename and regroup sites that involved munitions (e.g., SEAD xxxx-R-01 designation). Any site with a prior SEAD –XXX number is called an "alias" in the DOD reporting system.

Finally, in 1998, once the Army had completed its initial investigations of SEAD-12 (Radiological Waste Burial Sites), and begun a more comprehensive remedial investigation (RI). As part of this effort, SEAD-12A and SEAD-12B were consolidated into SEAD-12, an area encompassing more than 350 acres at the north end of the Depot and subject to continuing CERCLA investigations. Based on these additions, sites investigated under CERCLA rose from the 72 listed in the FFA to 78, the four EBS sites (SEADs 121C, 121I, 122B, and 122E), and the two OE SWMUs (SEADs 002-R-01, including EOD-2) resulting in 84 sites (refer to Table 3).

4.6 Basis for Taking Action

The basis for taking action for each AOC is described in further detail in the individual appendices. Generally, an action was required at the AOCs to ensure the remedy or land use remains protective of site users. The contaminants of concern (COC) and results of the human health and ecological risk assessments at each AOC are summarized in the individual appendices. Risk assessments were performed to determine if the human health cancer risks were below the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} , and if the calculated non-cancer hazard indexes (HI) were less than 1.0.

5.0 NEW LANGUAGE ON CLIMATE CHANGE

Potential site impacts from climate change were assessed and the performance of the remedies at SEDA

currently are not at risk due to the expected effects of climate change in the region and near the site.

6.0 SUMMARY OF REMEDIAL ACTIONS LUC OBJECTIVES

The specific elements that composed the remedy for each AOC are discussed in further detail in the individual AOC appendices. The RODs for each AOC require the implementation of LUCs that will continue until the concentrations of hazardous substances in the soil and groundwater are reduced to levels that allow for unlimited use and unrestricted exposure. A summary of the LUCs for the AOCs is presented in this section. Figure 3 identifies the CERCLA sites reviewed in the FYR with the corresponding LUCs or ICs required by the RODs or are expected to be required (for sites currently awaiting ROD issuance). For real estate parcels that have been transferred, LUC/ICs have been implemented as deed restrictions and environmental easements. Since the last Five Year Review, the ROD was signed for SEAD-12 and SEAD-72 in March 2015. SEAD-72 was NFA and the remedy for SEAD-12 requires the implementation of LUCs as discussed further in Section 6.6.

6.1 Summary of PID/Warehouse Area LUC Objectives and Restrictions

Seventeen AOCs (SEADs 1, 2, 5, 16, 17, 25, 26, 27, 39, 40, 59, 64A, 66, 67, 71, 121C, and 121I) located within the PID/Warehousing Area are subject to LUC inspection. Based on the planned reuse of the PID/Warehousing Area by the Seneca County Industrial Development Authority (SCIDA), the entirety of the PID/Warehousing Area and the AOCs within this area are subject to institutional controls in the form of two common LUC objectives (Parsons, 2004a; 2004b; 2005b; 2006f; 2007a; 2008; 2009a; 2009b):

- Prohibit the development and use of property for residential housing, elementary and secondary schools, childcare facilities and playground activities.
- Prevent access to or use of the groundwater until New York State (NYS) Class GA Groundwater Standards are met.

An additional LUC is required at SEAD-5 and SEAD-64A where unauthorized excavation is prohibited.

6.2 Summary of Prison Area LUC Objectives and Restrictions

The "Prison Area" consists of eight Solid Waste Management Units [(SWMUs) SEADs 43, 44A, 44B, 52, 56, 62, 64C, and 69] that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility.

Provisions of the deed apply to the following Solid Waste Management Units (SWMUs), which were transferred prior to a ROD being prepared and which currently are located within the bounds of the State of New York's Five Points Correctional Facility Parcel. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a). The Prison Area LUC requires:

 The continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

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6.3 Summary of the Airfield Parcel LUC Objectives and Restrictions

Two AOCs within the Airfield Parcel ware subject to LUCs. SEAD-122B: Small Arms Range, Airfield Parcel and SEAD-122E: Plane Deicing Area, A residential activities LUC was instituted on both AOCs as follows:

The development and use of property for residential housing, elementary or secondary schools, child care facilities, and playgrounds will be prohibited.

6.4 Summary of the Ash Landfill Operable Unit LUC Objectives and Restrictions

Five AOCs (SEADs 3, 6, 8, 14, and 15) are located within the Ash Landfill OU and are subject to institutional controls including LUCs. The LUC performance objectives include:

- Preventing access to or use of groundwater until cleanup levels are met.
- Maintaining the integrity of any current or future remedial or monitoring system such as monitoring wells and permeable reactive barriers.
- Prohibiting excavation of the soil or construction of inhabitable structures (temporary or permanent) above the area of the existing groundwater plume.
- Maintain the vegetative soil layer over the ash fill areas and the Non-Combustible Fill Landfill (NCFL) to limit ecological contact (Parsons, 2005c).

6.5 Summary of the North End Institutional Area LUC Objectives and Restrictions

One AOC (SEAD-41) within the North End Institutional Area is subject to LUCs. Historical groundwater data led the Army to impose a restriction on groundwater use for SEAD-41 and all of the properties within the North End Institutional Area as follows:

Prohibit access to or use of groundwater at SEAD-41 until concentrations of hazardous substances contained are reduced to levels that allow unrestricted use.

6.6 Summary of the LUC Objectives and Restrictions of AOCs in Other Areas

Three AOCs (SEAD 13, 64B, and 64D) were inspected within the SEDA former ammunition storage area. A summary of the LUCs implemented at these three areas of concern are as follows:

- Prevent access to or use of the groundwater until New York State (NYS) Class GA Groundwater Standards are met (SEAD-13 and SEAD-64D).
- Restriction on unauthorized excavation or digging within SEAD-64B and SEAD-64D (Parsons, 2007a).

SEAD-12 was inspected within the high security area. A summary of the LUCs implemented at SEAD-12 are as follows:

Restrict access to and use of the existing vacant Buildings 813/814 and the construction of inhabitable structures (temporary or permanent) above the area and within a fifty foot perimeter

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of Buildings 813/814 and fifty foot radius from MW12-37 where TCE-contaminated soil was previously identified, and where contaminated groundwater may exist; and

- Prohibit access to and use of groundwater in the vicinity of Buildings 813/814.
- Prohibit the development and use of the property for residential housing, elementary and secondary schools, child care facilities and playgrounds until soil and groundwater standards for unrestricted use and unlimited exposure are achieved.

7.0 PROGRESS SINCE LAST FYR

In general, for AOCs that had recommendations in the previous FYR, the LUC recommendations were implemented as intended. Where an inspection was not permitted (Prison Area), the continued implementation of LUCs were confirmed via interview. Annual LUC inspections were conducted yearly except in the cases of 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

Annual groundwater monitoring continued at Ash Landfill (SEADs -3, -6, -8, -14, and -15), SEAD-16/17 (except 2011), Open Burning (OB) Grounds (SEAD-23), and SEAD-25 based on comments from USEPA on the LTM annual reports for these AOCs summarizing groundwater monitoring trends. At the time of the annual reports there was not sufficient justification to terminate groundwater monitoring, and sampling was performed on an annual basis through this second FYR. Recommendations on groundwater monitoring frequency are further discussed in Section 5.0 of each individual appendix.

8.0 FIVE-YEAR REVIEW PROCESS

8.1 Administrative Components

Parsons in consultation with the U.S. Army (Army) conducted this FYR.

8.2 Community Involvement

The Army relies on public input to ensure that community concerns are considered during the FYR. This document was made available to the public for a public comment period, which began on 17 January 2017 and concluded on 28 February 2017. These documents were made available to the public at the AOC repository:

Seneca Army Depot Activity Building 125 Romulus, New York 14541 (607) 869-1309 Hours are Mon-Thurs 9:00 am to 3:00 pm

The following notice by the USEPA serves as notification to the community that the five-year review is

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being conducted by the regulatory agency. On November 19, 2015, EPA Region 2 posted a notice on its website indicating that it would be reviewing site cleanups and remedies at 32 Superfund sites and four federal facilities in New York and New Jersey, including the Seneca Army Depot Activity site. The announcement can be found at the following web address:

http://www2.epa.gov/sites/production/files/2015-11/documents/fy 16 fyr public website summary.pdf.

Once the FYR is completed, the results will be made available at the local site repository which is at the Seneca Army Depot Activity at the address above. In addition, efforts will be made to reach out to local public officials to inform them of the results.

8.3 Document Review

This FYR includes a review of relevant information contained in a variety of the multi-site related documents. The documents, data and information reviewed to complete this second FYR are summarized in Section 14.0 References. The information reviewed primarily focused on documents produced after signature of the RODs, but also included information from pre-ROD documents to provide historical Site information and contaminant extent.

8.4 Data Review

No data were reviewed as part of the FYR Process, except for the AOCs with ongoing LTM. Discussions of the LTM groundwater data reviewed for the Ash Landfill (SEADs -3,- 6, -8, -14, and -15), SEAD-16/17, OB Grounds (SEAD-23), and SEAD-25 are presented in the individual AOC appendices.

8.5 Site Inspection

The AOCs included as part of the FYR Process were inspected in April 22-23, 2014, June 1-2, 2015, and June 13th, 2016 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs from the 2015 inspection are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2** of each appendix. Specific observations made during AOC site inspections are presented in the individual AOC appendices

8.6 Interviews

No interviews were conducted during the FYR process for those AOCs that are uninhabited and unoccupied. Interviews were conducted at the Prison Area to confirm that the property is operating as state maximum security correctional facility. During the SEAD-41 site inspection, the Hillside Children's Center maintenance manager confirmed that the facility was using the public water supply.

8.7 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place for each AOC included in this second FYR. The LUC performance objectives are listed in Section 2.0 of each appendix.

9.0 TECHNICAL ASSESSMENT

9.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs at SEDA have been completed and

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documented. No continuing active remediation is required at the AOCs. Based on a review of Closure Reports, LUC RD, LTM reports, Environmental Easements, transfer deeds (as applicable) and the FYR site visit conducted between June 1 and 3, 2015 all remedies are functioning as intended by the decisions documents.

The selected remedies are still protective of human health and the environment. Additional details on the current protectiveness of the remedies at each AOC that are a part of this second FYR are presented in each AOCs individual appendix.

No opportunities for optimization or early indicators of potential issues have been identified at the AOCs as part of the FYR.

9.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAO used at the time of the remedies are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedies selected for the AOCs included as part of the second FYR.

9.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs. The exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy are still valid. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. Applicable or Relevant and Appropriate Requirement (ARARs) cited in the RODs remain protective of human health and the environment.

9.3.1 Change in Standards

Soil investigations used NYS Soil Cleanup Objectives (SCO) values contained in Technical and Administrative Guidance Memorandum (TAGM) #4046 (NYSDEC, 1996) or Title 6 New York Codes, Rules and Regulations (6 NYCRR) Part 375-6 (NYSDEC, 2006) values. Groundwater investigations used NYSDEC Ambient Water Quality Standards (AWQS) and Guidance Values (NYSDEC, 2000).

The NYS SCO values contained in TAGM #4046 used in RODs prior to 2006 were compared to 6 NYCRR Part 375-6 Remedial Program SCO values (Attachment 3). TAGM #4046 SCO were found to be lower than the restricted commercial cleanup objectives contained in Table 375-6.8(b) and for many contaminants lower than unrestricted cleanup objectives contained in Table 375-6.8(a).

An Addendum to NYSDEC AWQ Standard and Guidance Values was issued by NYSDEC in 2004 and amended the standards for three contaminants, none of which are COCs at SEDA. There have not been any additional addendums to the AWQS and Guidance Values issued by NYSDEC since the last FYR report.

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As a result, the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

10.0 ISSUES, RECOMMENDATIONS, AND FOLLOW-UP ACTIONS

No issues were identified for AOCs within the PID/Warehousing Area, Prison Area, Airfield Parcel, Ash Landfill, North End Institutional Area, and SEADs 12, 13, 64B and 64D during this FYR that would affect the protectiveness of the remedy.

The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

In addition, the following are recommendations that impact monitoring but do not affect current protectiveness and were identified during the FYR:

 Based on EPA request, the Army has agreed to sample for perfluroalkyl substances [PFAS] at Sites within SEDA where former fire training activities were conducted. These Sites include SEAD-25, SEAD-26, and SEAD-122E.

11.0 FIVE-YEAR REVIEW CONCLUSIONS

Based on a review of LUC Remedial Design (RD), environmental easements, property transfer deeds, closure reports, LTM reports, and a site inspection conducted on June 1 and June 3, 2015, the Army has made the following conclusions:

- LUCs employed at the Controlled Property are unchanged from the time of implementation;
- NYSDEC and USEPA were notified of any changes to the LTM employed at the Site as a result of contractual requirements;
- Nothing has occurred that would impair the ability of the LUCs to protect the public health and environment; and
- Nothing has occurred that would constitute a violation or failure to comply with the Remedial Design for the LUCs and giving access to such Controlled Property to evaluate continued maintenance of such controls.
- Engineering controls, including necessary treatment and/or mitigation systems and associated institutional controls are in place, are performing properly and remain effective;
- LTM requirements are being implemented at applicable AOCs;
- · Operation and Maintenance activities are being conducted properly; and
- Based on this review, the remedy continues to be protective of public health and the environment and is compliant with the decision documents.

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12.0 PROTECTIVENESS STATEMENT

Based upon the review of the CERCLA sites at the former Seneca Army Depot conducted by the Army, it has been determined that the remedies selected for the LUC/IC and LTM sites at the former SEDA remain protective of human health and the environment.

The remedy implemented for the AOCs included in the PID Warehousing Areas, Prison Area, Airfield Parcel, Ash Landfill OU, North End Institutional Area, and SEAD-12, SEAD-13, SEAD-64B, and SEAD-64D is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

Evaluation of the remedies will be included in the next FYR.

13.0 NEXT REVIEW

The next FYR for the SEDA should be completed before 30 September 2021.

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TABLES

Table 1 - SEDA CERCLA Sites Summary Five-Year Review Seneca Army Depot Activity

AOC
Planned Industrial Development (PID)Warehouse Area
SEAD-1 Hazardous Waste Container Storage Facility (Building 307)
SEAD-2 PCB Transformer Storage Facility (Building 301)
SEAD-5 Sewage Sludge Piles
SEAD-16 Building S311, (former) Abandoned Deactivation Furnace
SEAD-17 Building 367, (former) Active Deactivation Furnace
SEAD-25 Fire Training and Demonstration Pad
SEAD-26 Fire Training Pit
SEAD-27 Building 360 Steam Cleaning Waste Tank
SEAD-39 Building 121 Boiler Plan Blowdown Leach Pit
SEAD-40 Building 319 Boiler Plant Blowdown Leach Pit
SEAD-59 Fill Area West of Building 135
SEAD-64A Garbage Disposal Area, Debris Landfill south of Storage Pad
SEAD-66 Pesticide Storage Area near Buildings 5 and 6
SEAD-67 Dump Site east of Sewage Treatment Plant No. 4
SEAD-71 Alleged Paint Disposal Area
SEAD-121C Defense Reutilization and Marketing Office (DRMO) Yard
SEAD-121I Rumored Cosmoline Disposal Area
Prison Area
SEAD-43 Old Missile Propellant Test Lab
SEAD-44A: Quality Assurance Test Laboratory
SEAD-44B: Quality Assurance Test Laboratory
SEAD-52: Buildings 608 and 612 – Ammunition Breakdown Are
SEAD-56 Herbicide and Pesticide Storage
SEAD-62: Nicotine Sulfate Disposal Area near Buildings 606 and 612
SEAD-64C: Garbage Disposal Area
SEAD-69 Building 606 Disposal Area
Other SEADs with LUC Requirements
SEAD-12 Radioactive Waste Burial Sites
SEAD-13 Inhibited Red Fuming Nitric Acid (IRFNA) Disposal Site
SEAD-23 Open Burning Ground
SEAD-64B Garbage Disposal Area, Disposal Area South of Classification Area
SEAD-64D Garbage Disposal Area West of Building 2203
North End Barracks Area
SEAD-41 Building 718 Boiler Plant Blowdown Leach Pit
Airfield Parcel
SEAD-122B Small Arms Range, Airfield
SEAD-122E Plane Deicing Areas
Ash Landfill Operable Unit
SEAD 3 Incinerator Cooling Water Pond
SEAD-6 Abandoned Ash Landfill
SEAD-8 Non-Combustible Landfill
SEAD-14 Refuse Burning Pits
SEAD-15 Building 2207 – Abandoned Solid Waste Incinerator

Table 2 - Chronology of Site Events Five-Year Review Seneca Army Depot Activity

Site Chronology Events	Date
U.S. Army announced decision to build depot and acquires land (~10,600 acres).	June 11, 1941
U.S. Army begins construction of the Seneca Ordnance Depot	July 9, 1941
SEDA proposed for the National Priorities List (NPL)	July 14, 1989
SEDA was finalized and listed in Group 14 on the Federal Section of the NPL.	August 30, 1990
The Federal Facility Agreement signed between EPA, NYSDEC, and the Army.	January 1, 1993
SEDA was approved for closure under BRAC.	October 1, 1995
Seneca Army Depot Local Redevelopment Authority (LRA) created by Seneca County Board of	
Supervisors.	October 1, 1995
The Reuse Plan was approved by the LRA and Seneca County Board of Supervisors.	October 22, 1996
The Environmental Baseline Study was completed (Nov 13 - Dec 12, 1995) and reported.	October 29, 1996
ROD signed for Former Open Burning Grounds Site.	June 14, 1999
Institutional use at the former administration area in the northern end of the former depot	
property.	July 1, 2000
Depot transfers Prison Parcel to New York State.	September 26, 2000
SEDA was officially closed.	September 30, 2000
Seneca County Industrial Development Agency were transferred 9,500 acres (7,000 acres from	
conservation area, 900 acres from Planned Industrial Development/Warehouse Area (PID Area),	
and 500 acres from airfield parcel).	September 30, 2003
ROD signed for Twenty No Action SWMUs and Eight No Further Action SWMUs.	November 12, 2003
26 acres of former depot property was transferred for creation of a county jail.	December 31, 2003
ROD signed for Sites Requiring Institutional Controls in the Planned Industrial/Office	
Development or Warehousing Areas (SEADs 27, 64A, and 66).	September 28, 2004
ROD signed for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit	
and Area (SEAD-26).	September 29, 2004
ROD signed for the Ash Landfill Operable Unit Including Sites (SEADs 3, 6, 8, 14, 15).	January 21, 2005
ROD signed for No Further Actions for SWMUs SEAD 50/54	September 28, 2005
ROD signed for Debris Area Near Booster Station 2131 (SEAD-58) and Miscellaneous	
Components Burial Site (SEAD-63)	September 28, 2006
ROD signed for the Abandoned Deactivation Furnace (SEAD-16) and the Active Deactivation	
Furnace (SEAD-17)	September 29, 2006
ROD signed for the 17 SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69,	
44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)	July 3, 2007
SEAD-24, SEAD-50, SEAD-54, and SEAD-58 delisted from NPL.	April 28, 2008
ROD signed for the Defense Reutilization and Marketing Office (DRMO) Vard (SEAD-121C)	
and the Rumored Cosmoline Oil Disposal Area (SEAD-121I).	August 7, 2008
ROD signed for the Munitions Washout Facility (SEAD-4) and the Building 2079 Boiler	
Blowdown Pit (SEAD-38).	September 22, 2008
ROD signed for the Fill Area West of Building 135 (SEAD-59) and the Alleged Paint Disposal	
Area (SEAD-71).	March 31, 2009
ROD signed for Five Former SWMUs (SEAD 1, 2, 5, 24, 48)	May 6, 2009
ROD signed for the Old Construction Debris Landfill (SEAD-11)	September 25, 2009
A total of 9,808 acres transferred as of FY2009 with 878 acres remaining.	February 1, 2010
First Five Year Review (Draft)	July 20, 2011
ROD signed for Radioactive Waste Burial Sites (SEAD-12) and Mixed Waste Storage Facility	
(SEAD-72)	March 30, 2015

Table 3 - Summary of Areas of Concern (AOC) Subject to CERCLA Investigations, LUC Requirements and Disposition Status at SEDA
Five-Year Review
Seneca Army Depot Activity

								LUC	Requirer	nents				Other	Information	
Site Status	Site Number	Site Name	Operable Unit (OU)	Subject to Five-Year Review	LUC Reference	Prohibit Residential, Schools, Childcare Facilities, & Playgrounds	Prohibit construction of inhabitable structures (temporary or permanent)	GW Use Restriction (Prohibit Access or Use of)	GW LTM Required	Unauthorized Excavation Restriction	Maintain Soil Cap and/or Vegetative Cover	Maintain Remedial & Monitoring Wells System	Army Sites Not Ready For Transfer	GW Use Deed Restriction	Prison Parcel Reversionary Deed	Environment Ensement
lanned		Development (PID)/Warehouse Area														
	SEAD I	Hazardous Waste Container Storage Facility (Building 307)	OU13	X	Addendum #4	X		X								X
	SEAD 2	PCB Transformer Storage Facility (Building 301)	OU13	X	Addendum #4	X		X								X
	SEAD 5	Sewage Sludge Storage Piles	OU13	X	Addendum #4	X		X		X	X					X
NA	SEAD 9	Old Scrap Wood Site	OU14		PID Area-Wide LUC	X		X								X
NA	SEAD 10	Present Scrap Wood Site	OU14		PID Area-Wide LUC	X		X								X
	SEAD 16	Building S311, Abandoned Deactivation Furnace	OU4	X	Addendum #4	X		X	X							X
	SEAD 17	Building 367, Active Deactivation Furnace	OU4	X	Addendum #4	X		X	X							X
NA	SEAD 20	Sewage Treatment Plant No. 4	OU14		PID Area-Wide LUC	X		X								X
NA	SEAD 22	Sewage Treatment Plant No. 314	OU14		PID Area-Wide LUC	X		X								X
	SEAD 25	Fire Training and Demonstration Pad	OU3	X	Addendum #1	X		X	X			X				X
	SEAD 26	Fire Training Pit	OU3	X	Addendum #1	X		X	X ¹							X
	SEAD 27	Steam Cleaning Waste Tank (Building 360)	OU12	X	Remedial Design LUC	X		X								X
NFA	SEAD 28	Building 360, Underground Waste Oil Tanks (2)	OU14		Remedial Design LUC	X		X								X
NFA	SEAD 30	Building 118, Underground Waste Oil Tank	OU14		Remedial Design LUC	X		X								X
NFA	SEAD 31	Building 117, Underground Waste Oil Tank	OU14		Remedial Design LUC	Х		X								X
NA	SEAD 33	Building 121, Underground Waste Oil Tank	OU14		Remedial Design LUC	X		X								X
NFA	SEAD 34	Building 319, Underground Waste Oil Tank	OU14		Remedial Design LUC	X		X								X
NA	SEAD 36	Building 121, Waste Oil Burning Boilers (2 units)	OU14		Remedial Design LUC	X		Х								X
NA	SEAD 37	Building 319, Waste Oil Burning Boilers (2 units)	OU14		Remedial Design LUC	X		X								X
	SEAD 39	Building 121 Boiler Plant Blowdown Leach Pit	OU17	X	Addendum #2	X		X								X
	SEAD 40	Building 319 Boiler Plant Blowdown Leach Pit	OU17	X	Addendum #2	Х		X								X
NA	SEAD 42	Building 106, Preventive Medicine Laboratory	OU14		PID Area-Wide LUC	X		X								X
NA	SEAD 47	Building 321 and 806, Radiation Calibration Source Storage	OU14		PID Area-Wide LUC	Х		X								X
NA	SEAD 49	Building 356, Columbite Ore Storage	OU14		PID Area-Wide LUC	Х		X								X
NFA	SEAD 50	Tank Farm	OU15		PID Area-Wide LUC	X		X								X
NFA	SEAD 54	Asbestos Storage	OU15		PID Area-Wide LUC	X		X								X
NA	SEAD 55	Building 357, Tannin Storage	OU14		PID Area-Wide LUC	X		X								X
	SEAD 59	Fill Area West of Building 135	OU6	X	PID Area-Wide LUC	X		X								X
	SEAD 64A	Garbage Disposal Area, South of Storage Pad	OU12	X	Remedial Design LUC	X		X		X						X
	SEAD 66	Pesticide Storage Area near Buildings 5 and 6	QU12	X	Remedial Design LUC	Х		X								X
	SEAD 67	Dump Site east of Sewage Treatment Plant No. 4	OU16 & OU17	X	Addendum #2	X		X								X
NA	SEAD 68	Building S-355, Old Pest Control Shop	OU14		PID Area-Wide LUC	X		X								X
	SEAD 71	Alleged Paint Disposal Area	OU6	X	Addendum #4	X		X								X
	SEAD 121C	Defense Reutilization and Marketing Office (DRMO) Yard	OU21	X	Addendum #4	X		X								X
	SEAD 121I	Rumored Cosmoline Disposal Area	OU21	X	Addendum #4	X		X							1	X

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Seneca Army Depot Activity

								LUC	Requiren	nents				Other	Information	
Site Status	Site Number	Site Name	Operable Unit (OU)	Subject to Five-Year Review	LUC Reference	Prohibit Residential, Schools, Childeare Facilities, & Playgrounds	Prohibit construction of inhabitable structures (temporary or permanent)	GW Use Restriction (Prohibit Access or Use of)	GW LTM Required	Unauthorized Excavation Restriction	Maintain Soil Cap and/or Vegetative Cover	Meintain Remedial & Monitoring Wells System	Army Sites Not Ready For Transfer	GW Use Deed Restriction	Prison Parcel Reversionary Deed	Environment Easement
rison A	rea															
	SEAD 43	Building 606 Old Missile Propellant Test Laboratory	OU17	X	Addendum #2										X	
	SEAD 44A	Quality Assurance Test Laboratory, West of Building 616	OU17	X	Addendum #2										X	
	SEAD 44B	Quality Assurance Test laboratory, Brady Road	OU17	X	Addendum #2										X	
	SEAD 52	Building 608 and 612 Ammunition Breakdown Area	OU10 & OU17	X	Addendum #2										X	
	SEAD 56	Building 606 Herbicide and Pesticide Storage	OU17	Х	Addendum #2										X	
NFA	SEAD 60	Oil Discharge adjacent to Building 609	OU10 & OU14		None - NFA Site											#
	SEAD 62	Nicotine Sulfate Disposal Area near Building 606 and 612	OU17	X	Addendum #2	1									X	
	SEAD 64C	Garbage Disposal Area	OU17	х	Addendum #2										X	
	SEAD 69	Building 606 Disposal Area	OU17	Х	Addendum #2										X	
Other SI	ADs with LUC	Requirements														
	SEAD 12	Radiological Waste Burial Sites	OU5	X	Addendum #5	X	X	X								
_	SEAD 13	Inhibited Red Furning Nitric Acid (IRFNA) Disposal Site	OU9 & OU17	х	Addendum #2			X				X ²	X			
NFA	SEAD 24	Abandoned Powder Burning Pit	OU13 & OU16		None - NFA Site	X		X					-			
MA	SEAD 64B	Garbage Disposal Area, South of Classification Area	OU17	х	Addendum #2	- 1		-		Х	X					X
	SEAD 64D	Garbage Disposal Area, West of Building 2203	OU17	X	Addendum #2	-	-	X		X	X	X			1	X
Vorth En	d Barracks Area	Salvage Disposa Med West of Dunding 2205	1 0017	1	110000000000000000000000000000000000000	1		1 /						-	1	
NA	SEAD 7	Shale Pit	OU14		None - NA Site	1										
NA	SEAD 18	Building 709, Classified Document Incinerator	OU14		None - NA Site	-	-	1							1	
NA	SEAD 19	Building 801, Classified Document Incinerator	OU14		None - NA Site	1							-	1		
NA	SEAD 21	Sewage Treatment Plant No. 715	OU14	-	None - NA Site	1	-	-				-	1			1
NFA	SEAD 32	Building 718, Underground Waste Oil Tanks (2)	OU14		None - NFA Site	-	-		-							
NA	SEAD 35	Building 718, Underground waste Oil Tanks (2) Building 718, Waste Oil Burning Boilers (3 units)	OU14		None - NA Site	-	_	-			_	-				
NA		Building 718 Boiler Plant Blowdown Leach Pit	OU17	X	Addendum #2	-	-	X				-		X ³		X
	SEAD 41			^		-		^	-		-			^		
NFA	SEAD 61	Building 718, Underground Waste Oil Tank	OU14		None - NA Site											
Airfield I					11 1 10	1 1	_						1		1	X
	SEAD 122B	Small Arms Range, Airfield	OU17	X	Addendum #2	X	-	-		-	-	-			-	X
	SEAD 122E	Plane Deicing Area	OU17	X	Addendum #2	X	1		1		J					^
Ash Land	fill Operable Unit	6	0111		4.11 - 1 - 10		1 1	T v	1 v	l v	1 v	1	_	_	_	TV
	SEAD 3	Incinerator Cooling Water Pond	OUI	X	Addendum #3	-	X	X	X	X	X	-	-	-		X
	SEAD 6	Abandoned Ash Landfill	OUI	X	Addendum #3		X	X	X	X	X	-	-	-	-	X
	SEAD 8	Non-Combustible Fill Area	OUI	X	Addendum #3	-	X	X	X	X	X	-	-	-	-	
	SEAD 14	Refuse Burning Pits (2 units)	OUI	X	Addendum #3		X	X	X	X	X	-		-	-	X
	SEAD 15	Abandoned Solid Waste Incinerator (Building 2207)	OUI	X	Addendum #3		X	X	X	X	X					X
Ongoin	Remedial Actio	on/ Pre-RODs									,	-	-			
	SEAD 45	Open Detonation Area	OU22	X	Pre-ROD								X			
	SEAD 46	Small Arms Range (aka 3.5-inch Rocket Range)	OUII	X	Pre-ROD								X			
	SEAD 57	Explosive Ordnance Disposal Area (#1)	OU11	Х	Pre-ROD								X			
	SEAD 007-R-0	1 Grenade Range	OU19	X	Pre-ROD			4					X			
	SEAD 002-R-0	1 Explosive Ordnance Disposal Areas #2 and #3	OU19	X	Pre-ROD								X			
	SEAD 70	Building 2110, Fill Area	OU11 & OU20	X	Pre-ROD								X			

Table 3 - Summary of Areas of Concern (AOC) Subject to CERCLA Investigations, LUC Requirements and Disposition Status at SEDA Five-Year Review Seneca Army Depot Activity

								LUC	Requiren	nents				Other !	Information	
Site Status	Site Number	Site Name	Operable Unit (OU)	Subject to Five-Year Review	LUC Reference	Prohibit Residential, Schools, Childcare Facilities, & Playgrounds	Prohibit construction of inhabitable structures (temporary or permanent)	GW Use Restriction (Prohibit Access or Use of)	GW LTM Required	Unauthorized Excuvation Restriction	Maintain Soil Cap and/or Vegetative Cover	Monitoring	Army Sites Not Ready For Transfer	GW Use Deed Restriction	Prison Parcel Reventionary Deed	Environmenta Ensement
ther SE	ADs with RODS	b, but no LUC Requirements														
	SEAD 23	Open Burning Ground	OU2	X	No LUC Requirements				X ⁴	X ⁴						
Other No	Action/No Furt	her Action Sites														
NFA	SEAD 4	Munitions Washout Facility Leach Field			None - NFA Site											
NFA	SEAD 11	Old Construction Debris Landfill			None - NFA Site											
NFA	SEAD 29	Building 732, Underground Waste Oil Tank			None - NFA Site											
NFA	SEAD 38	Building 2079, Boiler Plant Blowdown Leach Pit			None - NFA Site											
NFA	SEAD 48	Pichblende Ore Storage Igloos			None - NFA Site											
NA	SEAD 51	Herbicide Usage, Perimeter of High Security Area			None - NA Site											
NA	SEAD 53	Munitions Storage Igloos			None - NA Site											
NA	SEAD 58	Debris Area near Booster Station 2131			None - NA Site											
NFA	SEAD 63	Miscellaneous Components Burial Area			None - NFA Site											
NA	SEAD 65A	Acid Storage Area			None - NA Site											
NA	SEAD 65B	Acid Storage Area			None - NA Site											
NA	SEAD 65C	Acid Storage Area			None - NA Site											
NA	SEAD 72	Building 803, Mixed Waste Storage Area			None - NFA Site											

Note: For the majority of the AOCs, their respective ROD required implementation of specific LUCs which are summarized above.

X1 - Long Term Groundwater monitoring was initially required at SEAD-26 as a condition of the ROD. Groundwater monitoring at SEAD-26 was terminated by the Army, with the approval of the EPA and the NYSDEC after the first year of sampling (2006) after analysis indicated that no COCs were present in the groundwater at concentrations above defined cleanup goals.

X2 - At SEAD-13, the ROD requires that the integrity of any current or future remedial or monitoring system is maintained. All the monitoring wells at SEAD-13 were decomissioned.

X3 - GW Use Deed Restriction was placed on the deed because this area was transferred before environmental easements were required.

X4 - SEAD 23, Open Burning Grounds has Operations and Maintenance requirements per the ROD signed in February 1999. However, no LUCs have been established for the site.

^{# -} SEAD-60 was not included in the ROD associated with the Prison Parcel Reversionary Deed.

Table 4 - Photographic Log Descriptions Five-Year Review Seneca Army Depot Activity

Attachment #	SEAD Name	Photo#	Photo Description
			Views of Building 307 with native grass growing adjacent to building. The site inspection confirmed that no access to or use
Attachment A-1	SEAD-1, Hazardous Waste Container Storage Facility (Building 307)	Photo 1, 2, 3	of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment B-1	SEAD-2 PCB Transformer Storage Facility (Building 301)	Photo 1	View of Building 301 from north. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment C-1	SEAD-5 Sewage Sludge Piles	Photo 1, 2	No unauthorized excavations or activities that might compromise the integrity of the engineered soil cover were observed. The site inspection confirmed that no access to or use of groundwater was evident; and that no no residential, schools, childcare and play grounds were constructed.
Attachment D-1	SEAD-16 Building S311, (former) Abandoned Deactivation Furnace	Photo 1, 2, 3	Overlooking excavated area. Ponding observed in excavated area, but did not appear to reduce the effectiveness of the remedy. SEDA had received heavy rainfall during site visit. The site inspection confirmed that no access to or use of groundwater was evident.
Attachment D-1	SEAD-17 Building 367, (former) Active Deactivation Furnace	Photo 1	Ponding observed in excavated area but did not appear to reduce the effectiveness of the remedy. SEDA had received heavy rainfall during the site visit.
Attachment E-1	SEAD-59 Fill Area West of Building 135	Photo 1,2	The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment F-1	SEAD-71 Alleged Paint Disposal Area	Photo 1	View of roadway on-site. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment G-1	SEAD-121C Defense Reutilization and Marketing Office (DRMO) Yard	Photo 1, 2, 3	Ponding observed, SEDA had received heavy rainfall during site visit. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment G-1	SEAD-121I Rumored Cosmoline Disposal Area	Photo 1, 2	There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment H-1	SEAD-25 Fire Training and Demonstration Pad	Photo 1, 2	View of gravel covered excavation area. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed. Heavy Rainfall during Site visit did not appear to reduce the effectiveness of the remedy.
Attachment I-1	SEAD-26 Fire Training Pit	Photo 1, 2	Fire Training Pit and Area. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment J-1	SEAD-27 Building 360, Steam Jenny Pit	Photo 1, 2	The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment K-1	SEAD-64A Garbage Disposal Area, Debris Landfill south of Storage Pad	Photo 1, 2, 3	The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment L-1	SEAD-66 Pesticide Storage Area near Buildings 5 and 6	Photo 1, 2	Building 5 on the north side and Building 6 on the south side are suspected to be located near the former pesticide storage area.
Attachment M-1	SEAD-39 Building 121 Boiler Plan Blowdown Leach Pit	Photo 1, 2	View toward former boiler plant leach pit from north and south. The excavated area was backfilled and returned to its original grade. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment N-1	SEAD-40 Building 319 Boiler Plant Blowdown Leach Pit	Photo 1	View of leach pit toward boiler plant. The ground surface to the north of Building 319 and to the south of the drainage ditch was covered with asphalt. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment O-1	SEAD-67 Dump Site east of Sewage Treatment Plant No. 4	Photo 1, 2	Undeveloped site areas, heavily vegetated with low brush and deciduous trees. The site inspection confirmed that no access to or use of groundwater was evident. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment P-1	Prison Area Parcel	N/A	Photos not allowed. The site inspection confirmed that the facility is still operating as a state prison. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy.
Attachment V-1	SEAD-13 Inhibited Red Furning Nitric Acid (IRFNA) Disposal Site	Photo 50, 49, 51	
Attachment W-1		Photo 1, 2	This view is of the property currently occupied by the Hillside Children's Center. During the site inspection, the Hillside Children's Center maintenance manager confirmed that the facility was using the public water supply. The site inspection confirmed that no access to or use of groundwater was evident.
Attachment X-1	SEAD-64B Garbage Disposal Area, Disposal Area South of Classification Area	Photo 1,2	The cover is vegetated with no signs of erosion evident. The site inspection confirmed that no prohibited excavation has taken place and the vegetative cover is being maintained.
Attachment Y-1	SEAD-64D Garbage Disposal Area West of Building 2203	Photo 1, 2, 3	The cover is vegetated with no signs of erosion evident. The site inspection confirmed that no prohibited excavation have taken place and no access to or use of groundwater was evident.
Attachment Z-1	Ash Landfill Operable Unit including SEADs 3, 6, 8, 14 and 15	Photo 1,2	The integrity of the LTM monitoring wells and biowall C is intact, and no maintenance is required.

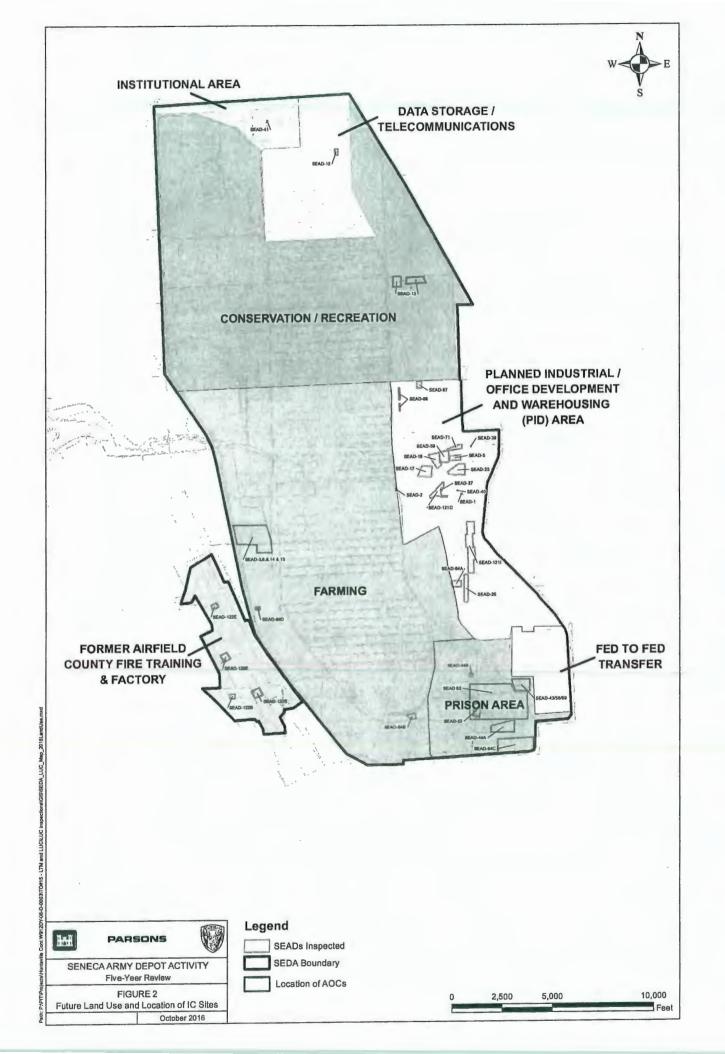
Table 4 - Photographic Log Descriptions Five-Year Review Seneca Army Depot Activity

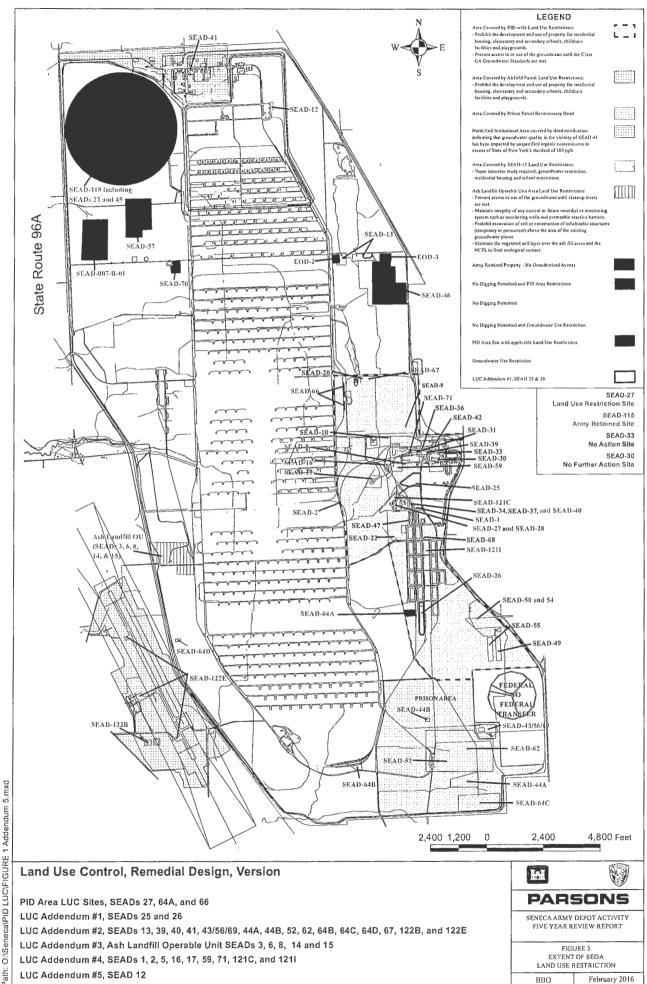
		Photo 3,4	The vegetative covers for the Ash Landill and NCLF are intact, and remains protective of ecological receptors.
Attachment AA-1	SEAD-122B Small Arms Range, Airfield	Photo 1	Area behind the Airfield 20-lane SAR with protective wooden baffle. The site inspection confirmed that no prohibited facilities have been constructed.
		Photo 2, 3, 4	Exisiting on-site structures. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment AA-1	SEAD-122E Plane Deicing Areas	Photo 1	View of northernmost deicing pad. The site inspection confirmed that no prohibited facilities have been constructed.
		Photo 2	View of westernmost deicing pad. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment AA-1	SEAD-122E Plane Deicing Areas	Photo 1	View of northernmost deicing pad. The site inspection confirmed that no prohibited facilities have been constructed.
		Photo 2	View of westernmost deicing pad. The site inspection confirmed that no prohibited facilities have been constructed.
Attachment AB-1	SEAD-12 Radioactive Waste Burial Sites	Photo 1, 2, 3	View of Building 813. The site inspection confirmed that no access to or use of groundwater was evident.

FIGURES



P:\PIT\Projects\Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUC*\LUC Inspections\LUC 5 Year Review 2015\Figures







APPENDICES

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APPENDIX A

SEAD-1: HAZARDOUS WASTE CONTAINER STORAGE FACILITY (BUILDING 307)

APPENDIX A: SEAD-1 Hazardous Waste Container Storage Facility (Building 307)

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-1 (Building 307, the former Hazardous Waste Container Storage Facility) is located approximately 3,500 feet southwest of the Depot's main entrance off State Route 96. Building 307 was constructed in 1981 and was used for temporary storage of containerized hazardous wastes prior to their shipment offsite for disposal. During Building 307's active life, the ground surrounding the building was kept clear of vegetation.

Hazardous wastes stored at SEAD-1 included spent solvents; still bottoms; sludge from oil/grease separations; cleaning compounds; paper filters; waste polychlorinated biphenyls (PCBs); and, spent battery acids. The storage of hazardous waste in Building 307 was subject to regulations promulgated under RCRA, 42 U.S.C. §§6901-63992k (Parsons, 2009a).

1.2 Initial Response

On December 30, 1991, the Army submitted a RCRA Part A and Part B Permit Application for the Depot that included storage operations at Building 307. The Army's permit application was not processed or approved, and operations performed at Building 307 continued under Interim Status until September 2005 when NYSDEC accepted the Army's Closure Certificate for SEAD-1. A RCRA Closure was implemented and completed for Building 307 (SEAD-1). The NYSDEC approved the RCRA Closure of the building in September of 2005, and indicated that the existing building should only be used for industrial operations in the future. However, the NYSDEC deferred comment or determination on the acceptability of the exterior soils to the CERCLA program.

1.3 Basis for Taking Action

An action was required at SEAD-1 to ensure land use remains protective of site users. SEAD-1 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas. The potential future hazards or risks identified at SEAD-1 is either suitable for the defined use, or associated with compounds that are present at concentrations that are equal to or less than naturally occurring levels.

1.3.1 Contaminants of Concern

A review of soil sample results indicated that 66 chemicals were detected in one or more of the individual soil samples characterized at SEAD-1. Information and data presented in the ROD (Parsons, 2009a) summarized that hazardous constituents are present in the soil at SEAD-1 at levels that exceeded Federal and State guidance values and thus, may pose a threat to selected future populations (e.g., future residents) that could use the land.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-1 there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the construction worker (HI=1.56) are less than 1.0. The results of the risk assessment performed using the maximum detected concentrations for contaminants in soil and the reasonable maximum exposure

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(RME) scenario indicate that the cancer risks calculated at SEAD-1 for all receptors (i.e., industrial worker, construction worker, and adolescent trespasser) are 1 x 10⁻⁶ or less, which is consistent with USEPA guidelines. Aluminum, iron, manganese, vanadium, and zinc in soil contribute significantly to the construction worker's elevated HI.

The risk assessment was recalculated using recommended Upper Confidence Limit (UCL) values in place of maximum concentrations as the Exposure Point Concentrations (EPCs) for aluminum, iron, manganese, vanadium, and zinc, and maximum concentrations for all of the other identified COCs. The results of this recalculation indicated that the estimated cancer risks for all potential future human receptors at SEAD-1 were consistent with, and less than USEPA's preferred upper limits, and that the HIs for the industrial worker and adolescent trespasser were below 1.0. The construction worker's HI was reduced to 1.08.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Five Former Solid Waste Management Units (SWMUs), SEAD-1 (Hazardous Waste Container Storage Facility), SEAD-2 (PCB Transformer Storage Facility), SEAD-5 (Sewage Sludge Waste Piles), SEAD-24 (Abandoned Powder Burn Pit) and SEAD-48 (Row E0800 Pitchblende Storage Igloos)" (Parsons, 2009a) requires the establishment of ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehousing Area. Addendum 4 to the SEAD LUC RD added SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehouse Area including properties that had been previously retained (including SEAD-1) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-1 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehousing Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehousing Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with

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Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 **Progress on Recommendations**

In general, the SEAD-1 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data were reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-1 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved ROD are being maintained. FYR site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-1.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

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4.4 Interviews

Since SEAD-1 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-1.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed ROD for SEAD-1 within the PID/Warehousing Area have been completed and documented. No continuing active remediation is required in the PID/Warehousing Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015, all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-1 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the AOCs within the PID/Warehousing Area of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-1.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

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5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-1 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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PARTIPES in the Manual VIII Street Street Provided A SEAD I

ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment A-1 5 Year Review - Site Visit Photo Log SEAD-1 Hazardous Waste Container Storage Facility (Building 307)

PROJECT: Seneca Army Depot LUC Inspection

PROJECT#: 748662

LOCATION: SEAD-1, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Bing.com (Microsoft) Birds Eye Aerial of SEAD-1; actual date of aerial photo is unknown but based on observable features at SEDA it may be from Spring 2007.

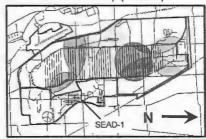








SEDA Overall Map (no scale)



SEAD-1 is located within the PID/ Warehouse Area Parcel.

2015 Site Visit Photo 1



Status as of: 6/1/15 Description: Building 307

2015 Site Visit Photo 2



Status as of: 6/1/15 Description: Building 307

Photo ID: IMG_6555.JPG

2015 Site Visit Photo 3



Status as of: 6/1/15 Description: Building 307

Photo ID: IMG_6556.JPG

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE IN	PORMATION .
Site name: SEAD ~	Date of inspection: June 1, 2015
Location and Region: PID ara	EPA ID: NY0213820830
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55 Light raun
Inspector: Dave Babcock, PE	Signature:
T Access controls	Monitored natural attenuation Groundwater containment Vertical barrier walls Adduty or grundwater
Attachments:	☐ Site map attached Photos by B
II. INTERVIEWS	(Check all that apply)
. O&M site managerName	Title Date
. O&M site managerName Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	ne no.
. O&M site managerName Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	Title Date
Name Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached Name Interviewed □ at site □ at office □ by phone Pho Name Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached Local regulatory authorities and response ag	Title Date pencies (i.e., State and Tribal offices, emergency responsh or environmental health, zoning office, recorder of all in all that apply. Title Date Phone no.

APPENDIX B SEAD-2: PCB TRANSFORMER STORAGE FACILITY (BUILDING 301)

APPENDIX B: SEAD-2 PCB Transformer Storage Facility (Building 301)

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-2, Building 301, is located in the east-central portion of SEDA, roughly 6,000 feet west, southwest of the Depot's main entrance off State Route 96. The building is located on the eastern side of Fayette Road, which separates the PID/Warehousing Area from the former munitions igloo storage area, which occupies the inner core of the former Depot.

Building 301 was originally constructed in 1942. It was upgraded in 1986 to meet hazardous waste storage requirements required by RCRA. The exterior of Building 301 measures approximately 35 feet 4 inches long by 23 feet 4 inches wide. The structure is partially bounded on its east and west sides, and completely on its north side, by a raised concrete loading dock, and access ramp and stairway assembly. Building 301 was used as a PCB Transformer Storage Facility beginning in 1980 and continuing until the Depot closed in 2000.

1.2 Initial Response

A RCRA Closure was implemented and completed for Building 301 (SEAD-2). The NYSDEC approved the RCRA Closure of the building in September of 2005, and indicated that the existing building should only be used for industrial operations in the future. However, the NYSDEC deferred comment or determination on the acceptability of the exterior soils to the CERCLA program.

1.3 Basis for Taking Action

An action was required at SEAD-2 to ensure land use remains protective of site users. SEAD-2 is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas. The potential future hazards or risks identified at SEAD-2 is either suitable for the defined use, or associated with compounds that are present at concentrations that are equal to or less than naturally occurring levels.

1.3.1 Contaminants of Concern

Information and data presented in the ROD (Parsons, 2009a) summarized that hazardous constituents are present in the soil at SEAD-2 at levels that exceeded Federal and State guidance values and thus, may pose a threat to selected future populations (e.g., future residents) that could use the land. A review of the soil sample results for SEAD-2 indicated that 64 chemicals were detected in one or more of the individual soil samples characterized, and 20 were found in individual samples at concentrations that exceeded New York's Unrestricted Use SCO values. However, comparisons between 95th UCL concentrations and their SCO values indicated that only four compounds were found at concentrations above New York's Unrestricted Use SCOs, while six compounds were found at a 95th UCL concentration in excess of its respective USEPA's Industrial Soil Regional Screening Level (RSL) value.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-2 there the human health cancer risks were below the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ for all receptors except for the industrial worker. The calculated non-cancer HI for all receptors except for the construction worker are less than 1.0.

The human health risk assessment was initially conducted using the maximum observed concentration as the EPC; subsequent determination used the 95th UCL values for selected metal COCs.

The risk assessment based on an RME scenario and maximum detected concentrations indicated that non-cancer risks for the industrial worker and the adolescent trespasser were less than 1. The HI computed for the construction worker was 1.48. This elevated HI was driven by the ingestion of soil and the inhalation of dusts containing metals. The predominant contributing metal is manganese, followed by iron, arsenic, aluminum and vanadium. Data indicated that each of these metals, exclusive of arsenic, was found at levels that are lower than Federal and State cleanup guidance values. The construction worker's HI decreased to 9E-011 when the UCL values for aluminum, arsenic, iron, manganese, and vanadium were substituted for the maximum detected levels.

The cancer risk calculated at SEAD-2 for the construction worker and adolescent trespasser were found to be within the USEPA's recommended range (1 x 10⁻⁴ to 1 x 10⁻⁶) based on the maximum detected concentration of the COCs and a RME exposure scenario. The cancer risk identified for the industrial worker at SEAD-2 was 5 x 10⁻⁴, which exceeds the USEPA's recommended range. The identified cancer risk for the industrial worker results were primarily due to dermal contact with, and ingestion of soil containing carcinogenic polycyclic aromatic hydrocarbons (cPAHs). The risk assessment and the conclusions of the AOC investigations were reviewed and approved by the USEPA.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The RODs titled "Five Former Solid Waste Management Units (SWMUs), SEAD 1 (Hazardous Waste Container Storage Facility), SEAD 2 (PCB Transformer Storage Facility), SEAD 5 (Sewage Sludge Waste Piles), SEAD 24 (Abandoned Powder Burn Pit) and SEAD 48 (Row E0800 Pitchblende Storage Igloos)" (Parsons, 2009a) require the establishment of ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 4 to the SEAD LUC RD added SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-2) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

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SEAD-2 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-2 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

3.3 Progress on Recommendations

Based on this FYR, the Army makes the following recommendations;

LUCs continued to be implemented and inspected on an annual basis.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 15.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR process.

4.3 Site Inspection

SEAD-2 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-2.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-2 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-2.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for SEAD-2 within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at the SEAD-2 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the AOCs within the PID/Warehousing Area of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically; and,
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-2.

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5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehousing Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-2 and the PID Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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Photopoleote/Hunteville Cont W912DV-08-D-0003/T0#15 - LTM and LHCV-LIC Inspections/LHC 5 Veer Review 2015/Final/Text/r5/Appendix R - SFAD-2

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment B-1 Five Year Review - Site Visit Photo Log SEAD-2 PCB Transformer Storage Facility (Building 301)

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

SEAD-2 is located within the PID/ Warehouse Area Parcel.



Approximate Site Boundary

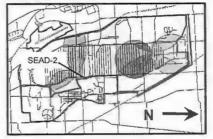


Photo Viewing Direction



LOCATION: SEAD-2, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEDA Overall Map (no scale)



2015 Site Visit Photo 1



Status as of: 6/1/15 Description: Building 307

Photo ID: IMG_6585.JPG



ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INF	FORMATION
Site name: SEAD - Z Storge	Date of inspection: June 1, 2015
Location and Region: PID area	EPA ID: NY0213820830
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 57 of Light poin
Inspector: Dave Babcock, PE	Signature:
☐ Access controls ☐	
Attachments: ☐Inspection team roster attached	□ Site map attached Photos MBB
II. INTERVIEWS	(Check all that apply)
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Phor Problems, suggestions; □ Report attached	Title Date
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date
	encies (i.e., State and Tribal offices, emergency response or environmental health, zoning office, recorder of lin all that apply.
Agency	Title Date Phone no.
Agency	Title Date Phone no.
 Other interviews (optional) □ Report attached. 	

APPENDIX C SEAD-5: SEWAGE SLUDGE WASTE PILES

APPENDIX C: SEAD-5 Sewage Sludge Waste Piles

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	ectiveness of the remedy?	
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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-5 is located in the east-central portion of SEDA, approximately 3,000 ft. west-southwest of the Depot's main entrance off State Route 96. SEAD-5 encompasses an area measuring approximately 150 ft. by 250 ft. in size. Between 1980 and roughly June 1992, sewage sludge from two Army wastewater treatment plants was stockpiled at this AOC. This area was also used as a location where the Depot's Department of Public Works (DPW) type storage and staging area for heavy equipment, materials and supplies was located.

1.2 Initial Response

The historic sewage sludge waste piles were removed from SEAD-5, and disposed at off-site landfills, in accordance with prevailing environmental requirements. A TCRA was performed at SEAD-5 between 2003 and 2006 to address hazardous substance contamination that remained in soil underlying and surrounding the location of the historic sludge piles.

1.3 Basis for Taking Action

An action was required at SEAD-5 to ensure land use remains protective of site users. SEAD-5 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Data presented in the ROD (Parsons, 2009a) for SEAD-5 summarized that hazardous substances and constituents were present at levels that exceed Federal and State soil guidance values and at levels that pose potential risks to future industrial and commercial users or occupants of the land.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-5 the human health cancer risks were less than the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} for all receptors except for the industrial worker. The calculated non-cancer HI for all receptors are less than 1.0. The calculated cancer risk for the industrial worker was slightly above the USEPA's recommended range at a level of 1.3×10^{-4} .

The human health risk assessment was computed using the 95th UCL of the mean as the EPC for each of the COCs. The elevated RME cancer risk was largely driven by concentrations of a single hazardous substance (benzo[a]pyrene) that were found at a few isolated, non-contiguous locations within the soil at the AOC. These elevated concentrations may be associated with asphalt pieces that have become intermixed with the soil at the AOC due to its historic use as a DPW-type storage and staging area (Parsons ES, 1995; Parsons, 2009a).

REMEDIAL ACTIONS 2.0

2.1 Remedy Selection

The RODs titled "Five Former Solid Waste Management Units (SWMUs), SEAD 1 (Hazardous Waste Container Storage Facility), SEAD 2 (PCB Transformer Storage Facility), SEAD 5 (Sewage Sludge Waste Piles), SEAD 24 (Abandoned Powder Burn Pit) and SEAD 48 (Row E0800 Pitchblende Storage Igloos)" (Parsons, 2009a) require the establishment of ICs. The elements that composed the remedy included:

- · Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited exposures.

In addition, at SEAD-5, the selected remedy required:

- Covering of contaminated soils (including those originating at SEADs-59 and 71) with at least one foot of clean fill that meets New York's Restricted Commercial Use SCO;
- Placing demarcation fabric (e.g., colored "snow" or safety fence) between the contaminated soil and the clean fill; and
- Establishing, maintaining, monitoring, and reporting on a third LUC that prohibits unauthorized excavations or activities that might compromise the integrity of the engineered cover.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 4 to the SEAD LUC RD added SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehouse Area including properties that had been previously retained (including SEAD-5) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-5 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehousing Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

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In June through July 2009, construction activities were undertaken at SEAD-5 to construct a soil cover to inter a portion of SEAD-5 where analytical results from soil samples indicated that elevated levels of certain hazardous substances were present at concentrations that posed potential human health risks to future industrial occupants and users of the land. The initial cover layer soil consisted of approximately 5,620 cubic yards of SEAD-59/71 stockpile soil. This soil covered approximately 1.57 acres of land. A layer of demarcation fabric was placed atop the initial layer of spread stockpile soil to delineate the lateral extent of the covered soil. One foot of borrow material of quality that meets Restricted Commercial Use SCOs defined by the NYSDEC was then placed as a protective barrier layer (Parsons, 2009a).

The CCR for the Former Sewage Sludge Waste Piles (Parsons, 2010c) provided record documentation of the completed remedial action construction activities and that accessible soil remaining in the area of the former sludge pile locations met the remedial goals defined in the ROD for AOC. The unauthorized excavation LUC for SEAD-5 is implemented only at that location where the protective cover is established over SEAD-5 soils.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-5 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-5 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-5.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-5 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-5.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for SEAD-5 within the PID/Warehousing Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at the SEAD-5 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the two identified AOCs, and which
 has been expanded to encompass all land within the PID/Warehousing Area of the former Depot
 has been implemented and is currently being maintained, monitored and reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically;
- At SEAD-5, contaminated soils were covered with at least one foot of clean fill, and demarcation fabric was placed between the contaminated soil and clean fill.

The selected remedy is still protective of human health and the environment. No opportunities for

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Publisher State | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | Properties | P

optimization or early indicators of potential issues have been identified for SEAD-5.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehousing Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-5 and the PID/Warehousing Areas. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment C-1
Five Year Review - Site Visit Photo Log
SEAD-5 Sewage Sludge Waste Piles

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

2015 Site Visit Photo 1

LOCATION: SEAD-5, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Google Earth Aerial of SEAD-5; aerial taken 9/24/2013



Status as of 6/1/15 Description: SEAD-5.

Photo ID: IMG_6546.JPG

2015 Site Visit Photo 2



Status as of:6/1/15 Description: SEAD-5 cap

Photo ID: IMG_6543.JPG



SEAD-5 is located within the PID/Warehouse Area Parcel.



Photo Viewing Direction



Approximate Site
Boundary

SEAD-5 N

SEDA Overall Map (no scale)

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE I	INFORMATION		
Site name: SEAD D	Date of inspection	n: June 1, 2015	
Location and Region: P(I) area	EPA ID: NY0213	3820830	
Agency, office, or company leading the five-year review: Parsons	Weather/tempera	ature:	
Inspector: Dave Babcock, PE	Signature:	BAUGAL	-
☐ Access controls	☐ Monitored natural at ☐ Groundwater contain ☐ Vertical barrier walls	ment	caerin
Attachments:	☐ Site map att	ached 4	notes by BI
JI. INTERVIEW	VS (Check all that apply	/)	
Problems, suggestions; ☐ Report attached 2. O&M staff Name Interviewed ☐ at site ☐ at office ☐ by phone P	Title hone no.	Date	
Problems, suggestions; Report attached Local regulatory authorities and response office, police department, office of public headeeds, or other city and county offices, etc.) Agency Contact	agencies (i.e., State and	Tribal offices, e	emergency response
Name Problems; suggestions; ☐ Report attached	Title	Date	Phone no.
Agency ContactName	Title	Date	Phone no.
Problems; suggestions; ☐ Report attached	1110		
Problems; suggestions; Report attached Agency Contact Name	Title	Date	Phone

APPENDIX D

SEAD-16/17: THE FORMER ABANDONED DEACTIVATION FURNACE (SEAD-16) AND THE FORMER ACTIVE DEACTIVATION FURNACE (SEAD-17)

APPENDIX D: SEAD-16 Abandoned Deactivation Furnaces and SEAD-17 **Active Deactivation Furnaces**

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The former Abandoned Deactivation Furnace (SEAD-16) is located in the east-central portion of SEDA. SEAD-16 consists of 2.6 acres of fenced land with grasslands in the north, east, and west, a former storage area for empty boxes and wooden debris, and an unpaved roadway in the south. Also previously located onsite was the building that housed the deactivation furnace, a smaller abandoned building known as the Process Support Building, two sets of SEDA railroad tracks, and some utilities. Two underground storage tanks previously existed at SEAD-16 but were removed.

SEAD-16 was used for the demilitarization of various small arms munitions. The process of deactivation of munitions involved heating the munitions within a rotating steel kiln, which caused the munitions to detonate. The byproducts produced during this detonation were then swept out of the kiln through the stack. SEAD-16 has been inactive and abandoned since the 1960s.

The former Active Deactivation Furnace (SEAD-17) is located in the east-central portion of SEDA. SEAD-17 consisted of a deactivation furnace building that was surrounded by a crushed shale road. Beyond the perimeter of the crushed shale road was grassland. Two small sheds are located in the eastern portion of SEAD-17, and there is vehicular access to SEAD-17 from an unpaved road to the north. Access to SEAD-17 is restricted because it is located in the former ammunition storage area.

SEAD-17 was constructed to replace the operation of SEAD-16 and was also used for the demilitarization of various small arms munitions. The process of deactivation of munitions involved heating the munitions within a rotating steel kiln, which caused the munitions to detonate. The byproducts produced during this detonation were then swept out of the kiln through the stack. SEAD-17 has been inactive since 1989 because of RCRA permitting issues (Parsons, 2005b).

1.2 Initial Response

SEAD-16 has been inactive and abandoned since the 1960s. SEAD-17 was constructed to replace the operation of the deactivation furnace at SEAD-16. However, SEAD-17 has been inactive since 1989 because of RCRA permitting issues.

All facilities that engage in the treatment, storage, and/or disposal of hazardous wastes are required to obtain a RCRA permit. The deactivation furnace at SEAD-17, which operated until 1989, was used to incinerate and deactivate or destroy small munitions and other materials associated with munitions or explosives. With the enactment of RCRA in 1976, waste explosives were classified as hazardous wastes, and thus the deactivation unit was classified as a hazardous waste treatment process. Because of the historical ongoing operations at the deactivation furnace at SEAD-17, the furnace at SEAD-17 was subject to RCRA permitting and is subject to RCRA closure requirements. The former deactivation furnace at SEAD-16 was not subject to RCRA requirements since it was not active subsequent to the enactment of RCRA in 1976. The State of New York has been delegated the RCRA program by the USEPA for oversight and closure of the RCRA unit.

SEAD-17 consisted of two distinct units: (1) contamination in the surrounding soils and groundwater, and (2) contamination of the deactivation furnace, building, and equipment. Contamination in the soil and groundwater is being addressed under CERCLA, and remediation of these media was covered in the ROD (Parsons, 2005b). The FFA details the relationship between CERCLA and RCRA, and under the FFA, remediation of releases under CERCLA "obviate the need for further corrective actions under RCRA for those releases (i.e. no further corrective action shall be required) and RCRA shall be considered an applicable or relevant and appropriate requirement." Therefore, in performing the remedy outlined in the ROD in a manner approved by USEPA and NYSDEC, the substantive requirements of RCRA would be met for the soil and groundwater at SEAD-17.

The deactivation furnace, building, and equipment at SEAD-17 have been addressed during RCRA interim closure actions as outlined below.

The following summarizes the regulatory history of the deactivation furnace at SEAD-17:

- 1962-1980 Deactivation Furnace operated to destroy small arms ammunition.
- 1976 RCRA enacted; legislation allowed owners and operators of hazardous waste TSDFs that
 were in existence as of November 19, 1980 to operate under Interim Status until their RCRA permit
 was issued or their request was denied.
- 1980-1989 The Army submitted a Title 6 NYCRR Part 373 Part A and a Part B permit application
 to permit the Seneca Army Depot as a TSDF. The Deactivation Furnace at SEAD-17 was listed as
 a hazardous waste incinerator for small arms ammunition. As was customary at the time, all
 facilities that submitted Part A permit applications were allowed to continue to operate under
 Interim Status.
- 1980-1989 Deactivation Furnace continued to operate under Interim Status.
- 1989 Deactivation Furnace was shutdown to allow for the addition of a new air pollution control
 device (APCD) system. As part of the upgrade, NYSDEC required that the furnace be closed in
 accordance with RCRA Interim Status requirements.
- November 6, 1989 RCRA Interim Closure Plan for the deactivation furnace was approved by NYSDEC.
- 1989-1991 The Army undertook interim closure actions at SEAD-17, which included the following:
 - Removal of all hazardous waste residues, containers, and removal of the baghouse filters, and dust.
 - Sampled the building, equipment, drains, and soils and subsequent decontamination and removal of releases.
- August 21, 1991 Interim Closure of the Deactivation Furnace was approved by NYSDEC in a letter, pending an independent certification by NYS Professional Engineer. The letter noted the following:

- Interim closure measures were completed and accepted for equipment, drains, walls, and concrete.
- The soil sampling determined contamination existed in and around the facility because of past operations. The Army, USEPA, and NYSDEC agreed to address this contamination as an AOC under the FFA. Because of the potential of recontamination of the building, the fact that contamination in soils will remain, and wipe samples of walls and floors failed to meet the criteria that was set, clean closure could not be achieved.
- March 3, 1992 Independent certification by NYS Professional Engineer submitted to NYSDEC, on behalf of the Army, stated that the deactivation furnace was "dirty closed".
- 1995 Base closure was announced; Army withdrew its RCRA permit application.
- 1989-2005 The furnace was not used for wastes, test material was processed for the upgrade equipment prove-out, and a pilot study was performed to evaluate its use as a Low Temperature Thermal Desorption (LTTD) system for lightly contaminated soil, which was not considered hazardous.

At SEAD-16, debris was removed from inside Building S-311 (the Abandoned Deactivation Furnace), Building 366, and both of these buildings were demolished and removed from the site due to safety concerns. At SEAD-17, Building 367, the Deactivation Furnace assembly and the supporting air pollution control device system were demolished. The detailed discussion of the building demolition actions can be found in the Building Demolition and Cleaning Report (Parsons, 2008a).

1.3 **Basis for Taking Action**

An action was required at SEAD-16/17 to ensure land use remains protective of site users. SEAD-16/17 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas. The potential future hazards or risks identified at SEAD-16/17 is either suitable for the defined use, or associated with compounds that are present at concentrations that are equal to or less than naturally occurring levels.

1.3.1 Contaminants of Concern

The primary COC at SEAD-16 were four metals (i.e., arsenic, copper, lead, and zinc), PAHs, and nitroaromatics. The most impacted soils were those adjacent to the abandoned deactivation furnace. Many of these compounds were present in concentrations that exceeded their respective NYSDEC guidelines. The COC are believed to have been released to the environment during the former deactivation furnace's period of operation (approximately 1945 to the mid-1960s). Seven metals (i.e., aluminum, antimony, iron, lead, manganese, sodium, and thallium) were detected in groundwater samples at concentrations that exceeded the NYSDEC Ambient Water Quality Standards (AWQS) Class GA groundwater quality standards or Federal Maximum Contaminant Level (MCL) standards. Additional sampling of the groundwater indicated that elevated thallium concentrations may have been the result of high turbidity in the samples, PAHs, pesticides, antimony, cadmium, copper, lead, and nickel were found at elevated concentrations in all of the drainage ditches that were investigated at SEAD-16 (Parsons ES, 1999a).

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At SEAD-16, explosives analyzed in surface soil included tetryl, 2,4,6-trinitrotoluene (TNT); 2-amino-4,6dinitrotoluene (2-A-4,6-DNT); and 2,4-dinitrotoluene (DNT). Tetryl, 2,4,6-TNT, 2-A-4,6-DNT, and 2,4-DNT were detected in a limited number of samples. Although no NYSDEC TAGM or SCO values are available for these compounds, all of the detections were well below the current EPA Industrial RSL (7400 μg/kg). Groundwater was analyzed for 2,4-DNT. One estimated detection of 2,4-DNT was detected at a concentration below the MCL.

At SEAD-17, the primary COC were six metals (i.e., antimony, arsenic, copper, lead, mercury, and zinc), PAHs and pesticide compounds. All of these compounds were likely to have been released to the environment during the active deactivation furnace's period of operation (approximately 1962 to 1989). Low concentrations of Semi Volatile Organic Compounds (SVOCs) and metals were detected in groundwater. Those that exceeded their respective MCL criteria were either essential nutrients (e.g., sodium) or a result of high turbidity in the samples. No VOCs, pesticides, PCBs, or nitroaromatics were detected in the samples (Parsons ES, 1999a).

At SEAD-17, 2.4-DNT was analyzed in soil and tetryl was analyzed groundwater. A limited number of detections of 2.4-DNT were found in soil; however, all of the detections were well below the current EPA Industrial RSL (7400 µg/kg). An estimated detection of tetryl was observed in groundwater; however, the detection was below the MDL.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-16, the human health cancer risks were within the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ for all receptors except the future industrial worker (5x10⁻³). The calculated non-cancer HI for all receptors were greater than or equal to 1.0. The results of the BRA at SEAD-16 indicated that the HI was above the USEPA target of 1.0 for the future industrial worker (HI=20), future on-site construction worker (HI=1), future day care center child (HI=6), and future day care center worker (HI=2). The risk assessment was conducted using data collected during the RI.

The risk assessment concluded that at SEAD-17, the human health cancer risks were within the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ for all receptors. The calculated non-cancer hazard indexes (HI) for all receptors except for the future day care center child (HI=1.0) were less than 1.0.

The reasonable maximum ecological exposure was also evaluated. The results of the ecological risk assessment presented in the RI report (Parsons ES, 1999a) concluded that there was negligible risk to the ecosystems of the SEAD-16 and SEAD-17 study areas. The quantitative ecological risk evaluation initially suggested that a possibility existed for the contaminants of potential concern (COPCs) to present a small potential for environmental effects because of soil, surface water, and ditch sediment/soils at both SEAD-16 and SEAD-17. However, given the conservative nature of the assessment, the poor quality of the SEAD-16 and SEAD-17 habitat, and the future land use designation as industrial, it was not likely that SEAD-16 and SEAD-17 supported or would support a significant portion of the community of species that occupy the area surrounding and including these areas.

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REMEDIAL ACTIONS 2.0

2.1 Remedy Selection

The ROD titled "The Abandoned Deactivation Furnace SEAD 16 and the Active Deactivation Furnace SEAD 17" (Parsons, 2005b) require the establishment of ICs. The elements that composed the remedy included:

- Conduct additional sampling as part of the pre-design sampling program to further delineate the areas of excavation;
- Remove, test, and dispose of the SEAD-16 building debris off-site;
- Excavate approximately 275 cy of ditch soil with lead concentrations greater than 1250 mg/Kg until cleanup standards are achieved;
- Excavate approximately 1760 cy of surface soils at SEAD-16 with lead concentrations greater than 1250 mg/Kg, and polycyclic aromatic hydrocarbon (PAH) and metal concentrations greater than risk-based derived cleanup standards;
- Excavate approximately 67 cy of subsurface soils at SEAD-16 (areas around SB16-2, SB16-4, and SB16-5) with lead concentrations greater than 1250 mg/Kg, and PAH and metal concentrations greater than risk-based derived cleanup standards;
- Excavate approximately 2590 cy of surface soils at SEAD-17 with lead concentrations greater than 1250 mg/Kg and metal concentrations greater than risk-based derived cleanup standards;
- Stabilize soils from SEAD-16 and SEAD-17 and building debris from SEAD-16 exceeding the Toxicity Characteristic Leaching Procedure (TCLP) criteria in order to attain Land Disposal Restrictions (LDR);
- Dispose of the excavated material in an off-site landfill;
- Backfill the excavated areas with clean backfill;
- Conduct groundwater monitoring at SEAD-16 and SEAD-17 until concentrations are below the GA criteria;
- Submit a Completion Report following the remedial action;
- Establish and maintain LUCs to:
 - Prevent access to or use of the groundwater until cleanup levels are met; and
 - Prevent residential housing, elementary and secondary schools, childcare facilities and playgrounds activities.
- Complete a review of the selected remedy every five years (at minimum), in accordance with Section 121(c) of the CERCLA.

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To complete RCRA closure of the deactivation furnace at SEAD-17, the Army further decontaminated or demolished and disposed offsite the structures that failed to meet closure standards during the interim closure (i.e., concrete slabs and block walls).

2.2 Remedy Implementation

The CCR (Parsons, 2008c) for the Abandoned Deactivation Furnace (SEAD-16) and the Active Deactivation Furnace (SEAD-17) provides documentation of the removal action construction activities addressing contaminated soil, building debris, and groundwater completed at the two historic AOCs. The CCR provides documentation that all soil exceeding cleanup goals were removed and NFA is required for soil at the AOCs.

The selected remedy at SEAD-16 and SEAD-17 resulted in the removal of soil and groundwater as a pathway for potential receptors. At SEAD-16, approximately 2,100 cubic yards of impacted soil were removed and disposed of at an off-site landfill. At SEAD-17, approximately 2,590 cubic yards of lead impacted soil were removed and disposed of at an off-site landfill and the excavated areas were backfilled with clean backfill. Soil was excavated from both SEAD-16 and SEAD-17 until confirmatory soil samples collected from the sidewalls (when appropriate), the excavation floor, and the perimeter yielded analytical results below site-specific cleanup standards. The depth of excavation completed at SEAD-16 varied from approximately 1 to 3 feet below ground surface (bgs) and the excavation depth at SEAD-17 varied from approximately 1 to 2 feet bgs. Deeper excavations at SEAD-16 and SEAD-17, including excavation areas surrounding the railroad tracks, were backfilled with clean bank-run gravel. SEAD-16 and SEAD-17 were graded to promote positive drainage. The areas at SEAD-17 that were vegetated prior to the RA were seeded to restore the vegetation. SEAD-16 was not seeded since it was not previously vegetated.

SEAD-16/17 Soil Removal Cleanup Goals				
Analyte	Cleanup Goal (mg/Kg)	Goal Met?		
Antimony	41	Yes		
Arsenic	21.5	Yes		
Cadmium	60	Yes		
Copper	10,000	Yes		
Lead	1250	Yes		
Mercury	5.7	Yes		
Thallium	6.7	Yes		
Zinc	10,000	Yes		
cPAHs (BTE)*	10	Yes		

^{*}cPAHs were only sampled at SEAD-16 and were compared to the Benzo(a)pyrene Toxicity Equivalence.

NYSDEC, 2006. Remedial Program Soil Cleanup Objectives. 6 NYCRR Subpart 375-6. NYSDEC Restricted Use Soil Cleanup Objective for Industrial Use

Groundwater was monitored to ensure that soil contamination left on-site did not further degrade groundwater quality. SEAD-16 and SEAD-17 were placed under a long-term monitoring (LTM) program for groundwater monitoring until concentrations are below the NYS Class GA groundwater quality standards (Parsons, 2005b; 2007c). LTM began in 2007 and is currently on-going at the site (Parsons, 2014b). Post-remediation groundwater sampling results indicate that groundwater has not been significantly

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impacted by site activities and are further discussed in Section 5.0. Groundwater use restriction continues until groundwater constituent concentrations have been reduced to levels that allow for unlimited exposure and unrestricted use. With USEPA approval, once groundwater cleanup standards are achieved, the groundwater use restrictions may be eliminated.

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 4 to the SEAD LUC RD added SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehouse Area including properties that had been previously retained (including SEAD-16 and SEAD-17) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-16 and SEAD-17 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

- · Continue the implementation of LUCs and the annual frequency of periodic reviews, and
- Discontinue the annual groundwater monitoring at SEAD-16 and SEAD-17 after 2011.

3.2 Progress on Recommendations

In general, the SEAD-16/17 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

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Annual groundwater monitoring continued at SEAD-16 or SEAD-17 based on comments from USEPA on the annual reports summarizing groundwater monitoring trends. At the time of the annual reports there was not sufficient justification to terminate groundwater monitoring, and sampling was performed on an annual basis at SEAD-16 and SEAD-17 through this 2016 FYR. No LTM sampling event was conducted in 2011 due to budgetary constraints; however, LTM was conducted from 2012 and demonstrated similar trends as in previous years. Recommendations on groundwater monitoring frequency are further discussed in Section 5.0

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

An evaluation of all pre- and post-Remedial Action (RA) groundwater results from SEAD-16 and SEAD-17 is provided for each AOC independently in the Year 7 Report (Parsons, 2015). Summaries of the Year for groundwater monitoring exceedances reported for SEAD-16 and SEAD-17 are provided in Table 6A and Table 6B of the Year 7 Report, respectively. The complete dataset for the Year 1, Year 2, Year 3, and Year 4 events are provided for SEAD-16 and SEAD-17 in Appendix D Table 1 and Appendix D Table 2, respectively of the report.

The long-term groundwater monitoring performed over seven years following the completion of the 2007 RA shows that the soil removal remedy has been effective in minimizing the migration of select metals from soil to groundwater. Pre-RA groundwater quality concerns associated with arsenic, barium, beryllium, chromium, copper, iron, lead, mercury, nickel and thallium have been eliminated, as each of these metals, with the exception of iron and lead, have not been detected in the groundwater at SEAD-16 in excess of the applicable NYS Class GA or USEPA MCL standards since the RA was completed. Lead was found twice at levels in excess of the applicable USEPA MCL, but these exceedances were confined to a single well (MW16-7) during the Year 1 and Year 2 post-RA LTM sampling events; lead exceedances in MW16-7 have not been detected during subsequent sampling events. While iron and manganese concentrations in excess of NYS Class GA groundwater quality standards are still present, these results appear to be partially affected by turbidity issues or are attributable to the regional groundwater quality, and are not attributable to site activities. Noted sodium exceedances found in the groundwater at SEAD-16 may originate from the salt storage area located upgradient of SEAD-16 which is operated by the Seneca County Highway Department and are not attributable to site activities. Antimony continues to be detected at concentrations above the applicable NYS Class GA standard, but these exceedances are predominantly limited to two wells (MW16-2 and MW16-7) where concentrations have remained generally consistent since the RA was completed.

The groundwater quality at SEAD-17 has improved since the completion of the RA. There are a few noted exceedances of metals, but most occurrences are considered unrelated to site activities based on regional groundwater quality, limited locations and low frequency of exceedances, and/or turbidity impacts. Concentrations of iron were identified at concentrations above the applicable NYS Class GA standards and

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the results are greater than what has been observed historically at the site; however, there is not sufficient trend information to indicate that there a significant change in groundwater conditions. Iron exceedances reported for SEAD-17 are isolated and are most likely attributable to regional groundwater quality and are not attributable to site activities. Historically (Events 1, 3, 5, and 7) within SEAD-17, antimony has exceeded the NYS Class GA standard in one well (MW17-2) in both unfiltered and filtered samples. All of the exceedances have been less than 1.5 µg/L over the NYS Class GA standard and the last two exceedances, in Events 5 and 7, the concentrations were estimated. Although antimony has limited exceedances over the NYS Class GA standard, there is no trend in these data or evidence to suggest that these concentrations are different than background.

The following conclusions were made in the 2014 Year 7 Annual Report for SEAD-16 and SEAD-17:

- The soil excavation remedy at SEAD-16 and SEAD-17 was an effective method for controlling, and in some cases eliminating, the migration of select metals from soil to groundwater based on the evaluation of the results of the seven post-RA LTM sampling events.
- The historical results (Events 3-7) from the LTM data demonstrates that the concentrations of field filtered samples (dissolved) are similar to unfiltered (total) groundwater analytical data. The elevated concentrations of metals observed in earlier events were in some cases the result of elevated turbidity; however, turbidities have been below 10 NTU and total (unfiltered) results are representative of groundwater conditions.
- Post-remediation groundwater monitoring results indicate that there was a limited impact on the groundwater at SEAD-16/17. Iron, lead, and sodium were detected above groundwater standards in a limited number of wells; however, they currently are not considered COCs as they are below SEDA background levels and/or have not been detected above guidance values in the past several events.
- Antimony is a COC in one well, MW16-7; the concentrations at this well are not increasing or spreading to other wells.
- The land use and groundwater use restrictions imposed at SEAD-16 and SEAD-17 are maintained as part of both the approved RODs for SEAD 16/17 and the larger Planned Industrial/Office or Warehousing Area ("PID Area") (Parsons, 2004; 2006). There are no signs of unauthorized use or access to the AOCs.

The 2015 Year 8 Annual Report for SEAD-16 and SEAD-17 is currently in preparation, and has not yet been submitted to the regulatory agencies. However, based on groundwater concentrations in Event 8, the conclusions made in the 2015 Year 8 Annual Report will be similar to the conclusions presented in the 2014 Year 7 Annual Report.

4.3 Site Inspection

SEAD-16 and SEAD-17 were inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

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The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-16/17.
- Observations of the monitoring wells at SEAD-16/17 indicate that the wells located on the site are in acceptable condition.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-16/17 are uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-16/17.

4.5 Institutional Controls Verification

The LUCS, environmental easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LTM Reports, LUC RD, environmental easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-16/17 currently protects human health and the environment because:

- Previously contaminated soils containing lead at concentrations in excess of 1250 mg/Kg, and other
 metals and PAHs above risk-based derived cleanup standards at SEAD-16, have been excavated,
 stabilized to prevent potential leaching, and disposed at an off-site landfill.
- Previously contaminated soils containing lead at concentrations in excess of 1250 mg/Kg and other
 metals above risk-based derived cleanup standards at SEAD-17, have been excavated, stabilized to
 prevent potential leaching, and disposed at an off-site landfill.
- An Unexploded Ordnance (UXO) technician witnessed the excavation of contaminated soil materials from SEAD-16 and SEAD-17, the dismantling of process equipment, and the cleaning of the basement of Building S-311 (former Abandoned Deactivation Furnace) to assess whether materials presenting potential explosive hazard (MPPEH) were present. No MPPEH was found in the excavated soil or debris removed during these operations, and the process equipment was safely dismantled and transported to the OB Grounds (SEAD-23) where it was heat treated to remove any propellant residues. Treated process equipment was subsequently disposed at an off-site landfill.
- LUCs that prohibit access to, and use of, groundwater and prevents residential housing, elementary
 or secondary schools, childcare facilities, or playground activities until cleanup standards have been

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met have been implemented and continue to be monitored by the Army.

The selected remedy is still protective of human health and the environment. No early indicators of potential issues have been identified for SEAD-16/17. Recommendations for optimization of the LTM program are discussed further in Section 5.4.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document and **Attachment 3**, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and Remedial Action objectives from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-16/17 and PID/Warehousing Area. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

Based on the current area-wide LUC prohibiting the use of groundwater within the PID/Warehousing Area (including SEAD-16/17), the Army recommends concluding LTM because of the following:

- Groundwater use is prohibited by the area-wide LUC and an alternate potable water source is available;
- There is no ongoing treatment process at either site to continue monitoring for concentration reductions;
- Trends demonstrate that the remedial action performed did not adversely impact groundwater;
- The COCs concentrations are not increasing; and,

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 Antimony is not migrating, as evidenced by absence of increasing antimony concentrations in other wells.

Upon acceptance of these recommendations, the SEAD-16/17 wells will not be decommissioned at this time and sampling at these sites may take place in the future if the need arises (e.g., emerging contaminants, decisions during the 2021 5 Year Review). Annual LUC inspections will continue to insure that the groundwater is not accessed.

5.5 Protectiveness Statement

The remedy implemented for the SEAD-16, SEAD-17, and PID/Warehousing Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years. Additionally, SEAD-16 and SEAD-17 are located within the PID area, within which an environmental easement and deed restriction prohibit both residential use and the use of groundwater.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment D-1 Five Year Review - Site Visit Photo Log SEAD-16 Abandoned Deactivation Furnaces

PROJECT: Seneca Army Depot LUC Inspection LOCATION: SEAD-16, Seneca Army Depot SEDA Overall Map (no scale) CLIENT: U.S. Army Corp of Engineers PROJECT #: 748662 2014 Site Visit Photo 3 2015 Site Visit Photo 1 SEAD-16 is located within the PID/Warehouse Area Parcel. 7 Approximate Site → Boundary Photo Viewing Direction Bing.com (Microsoft) Aerial of SEAD-16; actual date of aerial photo is unknown but based on observable features at SEDA it may be from Spring 2010. 2015 Site Visit Photo 3 Photo ID: IMG_6592.JPG Status as of: 6/1/15 Description: SEAD-16 2015 Site Visit Photo 2 Status as of: 6/1/15 Photo ID: IMG_6591.JPG Description: SEAD-16 Status as of: 6/1/15 Photo ID: IMG_6589.JPG Description: SEAD-16

Attachment D-1 Five Year Review - Site Visit Photo Log SEAD-17 Active Deactivation Furnace

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662 LOCATION: SEAD-17, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

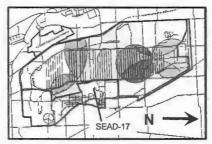
SEAD-17 is located within the PID/Warehouse Area Parcel.



Approximate Site Boundary



Photo Viewing Direction



SEDA Overall Map (no scale)





2015 Site Visit Photo 1



Photo ID: IMG 6588.JPG Status as of: 6/1/15 Description: SEAD-17, Building 367 foundation.

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ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD -16	Date of inspection: June 1, 2015			
Location and Region: Planea	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Light rain.			
Inspector: Dave Babcock, PE	Signature:			
Access controls	Monitored natural attenuation Groundwater containment VISter Vertical barrier walks OF GRANDWALLE FRONT DEVELOPMENT OF PERCHAPTER 2014: Ecology December 2014: E			
Attachments:	☐ Site map attached Photos by BK.			
II. INTERVIEWS	(Check all that apply)			
Name Interviewed □ at site □ at office □ by phone Phor Problems, suggestions; □ Report attached 2. O&M staff Name	Title Date			
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	ne no			
	encies (i.e., State and Tribal offices, emergency response or environmental health, zoning office, recorder of lin all that apply.			
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
Agency				
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
 Other interviews (optional) ☐ Report attached. 				

SEDA LUC Inspections Site Inspection Checklist

I. SITE INF	ORMATION				
Site name: SEAD	Date of inspection: June 1, 2015				
Location and Region: PID area	EPA ID: NY0213820830				
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 57% train				
Inspector: Dave Babcock, PE	Signature:				
Remedy Includes: (Check all that apply) Landfill cover/containment					
Attachments:	□ Site map attached Photos by BBO				
II, INTERVIEWS	(Check all that apply)				
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached					
Name Interviewed □ at site □ at office □ by phone Phon Problems, suggestions; □ Report attached	Title Date				
	Title Date Phone no.				
Agency	Title Date Phone no.				
 Other interviews (optional) □ Report attached. 					

APPENDIX E SEAD-59: FILL AREA WEST OF BUILDING 135

APPENDIX E: SEAD-59 Fill Area West of Building 135

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-59 (Fill Area West of Building 135) is approximately 6.2 acres in size and encompasses an area located along both sides of an unnamed east-west dirt road that runs from the intersection of 4th Avenue, Administration Avenue, and South Street in the Depot's former Administration Area to the former location of Building 311 in SEAD-16. SEAD-59 was used for the disposal of construction debris and oily sludge. SEDA personnel have also indicated the area of SEAD-59 was used as the Army's version of a local "Department of Public Works" yard where vehicles and materials were staged, and as a result a large quantity of miscellaneous "roads and grounds" debris remains, and has become intermixed with the native soils (Parsons, 2009c).

1.2 Initial Response

Work performed at SEAD-59 includes the ESI in 1994, a Phase I RI in 1997, a TCRA conducted in 2002, and a Phase II RI completed in 2006. A TCRA performed in 2002 included excavation and staging of impacted soils, sampling and analysis of excavated areas and stockpiled excavated soils, disposal of approximately 3,805 tons of contaminated soil (total from SEAD-59 and SEAD-71) at an approved off-site landfill, installation of groundwater monitoring wells, and backfilling and grading of open excavations with acceptable soil from the stockpiles (Parsons, 2002d; 2006d). The CCR for the Former Sewage Sludge Waste Piles (SEAD-5) (Parsons, 2010c) provided record documentation of the completed remedial action construction activities for SEADs 59 and 71. Stockpiled soil generated during the SEAD-59/71 remedial actions was used as the initial cover layer at SEAD-5.

1.3 Basis for Taking Action

An action was required at SEAD-59 to ensure land use remains protective of site users. SEAD-59 is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

The SEAD-59 soil and groundwater sample summary results and data evaluated for SEAD-59 are provided in the ROD (Parsons, 2009c). Results of test pitting operations completed during site investigation activities indicated that full and empty 15- and 55-gallon drums, one-, two- and five-gallon paint cans, 20-gallon waste cans, and chain-linked fence were found buried at the site. No COCs were identified for SEAD-59 soil or SEAD-59 stockpiled soil.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-59 the human health cancer risks were less than the CERCLA cancer risk management upper limit of 1 x 10^{-4} for all receptors. The calculated non-cancer HI for the adolescent trespasser receptor was less than 1.0. The non-cancer HIs determined for the industrial worker and construction worker were 1E+00 (HI=1.2) and 9E+00 (HI=8.9), respectively.

It was determined that the elevated risks associated with exposure to metals in SEAD-59 groundwater result from metals that are associated with the native soils and waters in the geologic formation at the Depot and

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were not associated with a release from the AOC. When the hazard index contribution from SEAD-59 groundwater is removed, the HI levels computed for the industrial worker and the construction worker both fall to less than 1.

A Screening Level Ecological Risk Assessment (SLERA) was conducted and the results indicate that soil at SEAD-59 and in SEAD-59 stockpiled soil does not significantly impact ecological receptors in the area. No COCs were identified for SEAD-59 soil or SEAD-59 stockpiled soil.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The RODs titled the "Fill Area West of Building 135 (SEAD 59)" (Parsons, 2009c) requires the establishment of ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the "PID/Warehouse Area. This SEAD LUC RD exempted 14 sites, or parcels, identified as Army Retained Sites. Addendum 4 to the SEAD LUC RD (USACE, 2009) included SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-59) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-59 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehousing Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

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3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 **Progress on Recommendations**

In general, the SEAD-59 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data were reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-59 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-59.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-59 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-59.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

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5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehousing Area have been completed and documented. No continuing active remediation is required in the PID/Warehousing Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-59 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the AOCs within the PID/Warehousing Area of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically; and,
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds, and which also has been expanded to include all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-59.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-59 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

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5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

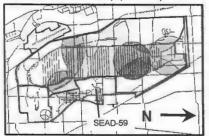
Photo Log

Attachment E-1 Five Year Review - Site Visit Photo Log SEAD-59 Fill Area West of Building 135

PROJECT: Seneca Army Depot LUC Inspection
PROJECT #: 748662

LOCATION: SEAD-59, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEDA Overall Map (no scale)



Approximate Site Boundary

4

Photo Viewing Direction

SEAD-59 is located within the PID/Warehouse Area Parcel.

Bing.com (Microsoft)
Aerial of SEAD-59;
actual date of aerial
photo is unknown, but
based on observable
features at SEDA it may
be from Spring 2010.



2015 Site Visit Photo 2

2015 Site Visit Photo 1



Status as of: 6/1/15 Description: SEAD-59 Photo ID: IMG_6547.JPG



Status as of: 6/1/15 Description: SEAD-59 Photo ID: IMG_6542.JPG

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE IN	FORMATION
Site name: SEAD -59	Date of inspection: June 1, 2015
Location and Region: PLO area	EPA ID: NY0213820830
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55°+ Light rain
Inspector: Dave Babcock, PE	Signature: DBulan
□ Access controls □	I Monitored natural attenuation I Groundwater containment I Vertical barrier walls All endows or frauduater USE.
Attachments: □Inspection team roster attached	☐ Site map attached
II. INTERVIEWS	(Check all that apply)
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	Title Date
2. O&M staff Name Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	Title Date one no.
	gencies (i.e., State and Tribal offices, emergency response th or environmental health, zoning office, recorder of ill in all that apply.
Name	Title Date Phone no.
Agency ContactName	Title Date Phone no.
Problems; suggestions; Report attached	Title Date Phone no.
 Other interviews (optional) □ Report attache 	d.

APPENDIX F SEAD-71: ALLEGED PAINT DISPOSAL AREA

APPENDIX F: SEAD-71 Alleged Paint Disposal Area

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-71 (the Alleged Paint Disposal Area) is wedge shaped and is located west of 4th Avenue near Buildings 114 and 127. The entire AOC is approximately 2.4 acres in size and bounded on the north and south by railroad tracks serving Buildings 114 and 127.

Prior to the 2001 RI, rumors suggested that paints and/or solvents were disposed at SEAD-71 in burial pits (Parsons, 2001). The results of the RI test pitting operations failed to confirm the paint and oil disposal rumors, but did indicate that the area had been used for the disposal of construction debris, including sheet metal, asphalt, chain link fencing, sand and stone, piping, railroad ties, wood and cinders. No dates of disposal are available nor is there any information on the number of suspected disposal pits that may have been used.

1.2 Initial Response

An ESI, consisting of geophysical investigations, soil investigations (including soil boring and test pitting), and groundwater monitoring well installation and sampling was performed. A Phase I RI included a ground penetrating radar survey, a surface soil investigation, and a test pitting program. The TCRA performed in 2002 included excavation and staging of impacted soils, sampling and analysis of excavated areas and stockpiled excavated soils, disposal of approximately 3,805 tons of contaminated soil (total from SEAD-59 and SEAD-71) at an approved off-site landfill, installation of groundwater monitoring wells, and backfilling and grading of open excavations with acceptable soil from the stockpiles. For both AOCs, the Phase II RIs included validating and evaluating the soil data generated during the 2002 TCRAs, conducting groundwater monitoring, and performing risk assessments to characterize potential residual risks to human health and the environment. The CCR for the Former Sewage Sludge Waste Piles (SEAD-5) (Parsons, 2010c) provided record documentation of the completed remedial action construction activities for SEADs 59 and 71. Stockpiled soil generated during the SEAD-59/71 remedial actions was used as the initial cover layer at SEAD-5.

1.3 Basis for Taking Action

An action was required at SEAD-71 to ensure land use remains protective of site users. SEAD-71 is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Summary results of chemical analyses performed on all SEAD-71 soil and groundwater samples, and a complete copy of the analytical data for the all SEAD-71 surface and subsurface soil and groundwater evaluated during the investigation are provided in the ROD (Parsons, 2009c). The results of the RI test pitting operations indicated that the area had been used for the disposal of construction debris as mentioned in Section 1.1.

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1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that the human health cancer risks associated with all soil (i.e., inside and outside of Fenced Area) and groundwater at SEAD-71 were less than the CERCLA cancer risk management upper limit of 1 x 10⁻⁴ for both the construction worker and the adolescent trespasser. The potential cancer risk determined for the industrial worker is 2 x 10⁻⁴. Results for two RME scenarios are presented in the ROD (Parsons, 2009c); one including all SEAD-71 soil (i.e., inside and outside of the Fenced Area) and one considering only soil located exterior to the Fenced Area.

Based on discussion, it was concluded that the elevated cPAH concentrations in surface soil within the Fenced Area at SEAD-71 are not associated with any release at the site, but are directly associated with the pavement and crushed rock pad that is still in place at the AOC. Therefore, a risk assessment was conducted for SEAD-71 in which all soil data from the Fenced Area was excluded from the risk evaluation.

For exposure to SEAD-71 soil and groundwater outside the Fenced Area, the cancer risks for all receptors are below the USEPA upper limit of 1 x 10⁻⁴. The total non-cancer hazard index for the adolescent trespasser is below the USEPA target limit of 1. The non-cancer hazard indices for the industrial worker and construction worker are 3.5 and 13, respectively. The risk associated with groundwater intake contributes a significant portion of the total non-cancer hazard indices for the receptors. However, it was noted that elevated concentrations in SEAD-71 groundwater are generally comparable with the SEDA background, and may have been overstated in upgradient wells due to limited volume and potentially elevated turbidity.

A SLERA was conducted and the results indicate that soil at SEAD-71 does not significantly impact ecological receptors in the area. No COCs were identified for SEAD-71 soil for ecological receptors.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Alleged Paint Disposal Area (SEAD 71)" (Parsons, 2009c) requires the establishment of ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the "PID/Warehouse Area. Addendum 4 to the SEAD LUC RD (USACE, 2009) included SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

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An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-59) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-71 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehousing Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-71 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

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Site Inspection 4.3

SEAD-71 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-71.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-71 is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-71.

4.5 **Institutional Controls Verification**

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-71 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the AOCs within the PID/Warehousing Area of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically; and,
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds ,and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-71.

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5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-71 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

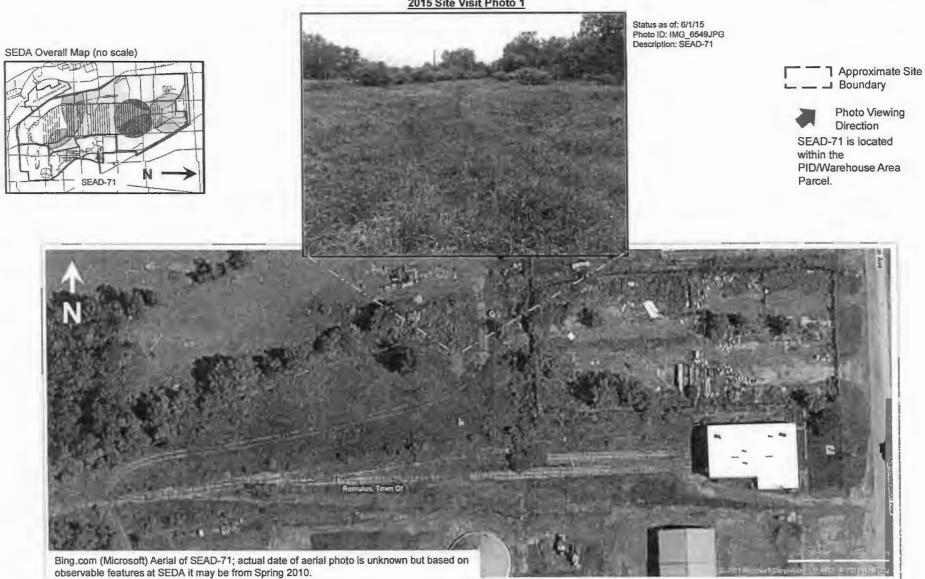
Attachment F-1 Five Year Review - Site Visit Photo Log SEAD-71 Alleged Paint Disposal Area

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

2015 Site Visit Photo 1

LOCATION: SEAD-71, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers



ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD -7	Date of inspection: June †, 2015		
Location and Region: PW area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55°F, light rain		
Inspector: Dave Babcock, PE	Signature: DBMVM		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	☐ Site map attached		
II. INTERVIEWS	(Check all that apply)		
1. O&M site manager			
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
	Title Date Phone no.		
ContactName Problems; suggestions; □ Report attached			
4. Other interviews (optional) ☐ Report attached.			

APPENDIX G SEAD-121C: DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO)

APPENDIX G: SEAD-121C Defense Reutilization and Marketing Office Yard and 121I Rumored Cosmoline Oil Disposal Area

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-121C, the Defense Reutilization and Marketing Office (DRMO) Yard, is a triangular-shaped gravel lot, approximately 8.75 acres in size, located roughly 4,000 ft. southwest of the former Depot's main entrance off State Route 96. The DRMO Yard was used by the Army to store scrap metal, vehicles, and other items that were no longer needed for national defense, or that did not comply with legislative and regulatory requirements. The group using the yard was responsible for property reuse (including resale), hazardous property disposal (off site, at licensed/permitted facilities), precious metals recovery and recycling program support (Parsons ES, 1999b; Parsons, 2008).

SEAD-121I, the Rumored Cosmoline Oil Disposal Area, encompasses four rectangular-shaped, open grass and dirt covered areas that are bounded by 3rd and 7th Streets (north and south ends, respectively) and Avenues C and D (west and east sides, respectively). The overall size of the AOC is approximately 16.8 acres. Approximately 1.2 acres of this area were previously used for the staging of strategic stockpiles of ferromanganese ore (Parsons, 2008).

1.2 Initial Response

Two environmental investigations were conducted to document the environmental conditions present at SEAD-121C, the DRMO Yard. In addition, a removal action WAS also performed independently at SEAD-121C, and confirmatory soil sample data were developed as part of the removal action activities.

Sampling was performed in 1998 (limited EBS) to determine if hazardous substances were present, and between 2002 and 2003 (RI) to more thoroughly investigate Site conditions; the results of this effort were reported in the RI Report (Parsons, 2006e). Additional data pertinent to the existing environmental conditions remaining at the AOC was subsequently developed during the lead interim removal action in 2007 and are provided in the CCR. The sampling and analysis conducted during the cleanup action are presented in the Completion Report for SEAD-121C, and are summarized in Section 3 of the ROD (Parsons, 2008b).

Two environmental investigations were conducted to document the environmental conditions present at SEAD-121I, the Rumored Cosmoline Oil Disposal Area. In addition, removal actions were also performed at SEAD-121I, and confirmatory soil sample data were developed as part of the removal action efforts.

Sampling was performed in performed in 1998 (EBS) to determine if hazardous substances were present, and between 2002 and 2003 (RI) to more thoroughly investigate Site conditions; the results of this effort were reported in the RI Report (Parsons, 2006e). The sampling and analysis conducted during the cleanup action are presented in the Completion Report for SEAD-121I, and are summarized in the ROD (Parsons, 2008b). Additional data pertinent to the existing environmental conditions remaining at the AOC was subsequently developed during the interim removal actions that were performed at the former stockpile locations in 2007 at SEAD-121I to address manganese residuals, and summarized in the Removal Action Letter for SEAD-121I.

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1.3 Basis for Taking Action

An action was required at SEAD-121I and SEAD-121C to ensure land use remains protective of site users. SEAD-121I and SEAD-121C are part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Conditions present at SEAD-121C were thoroughly investigated during a multimedia RI conducted in 2002 and 2003 (Parsons, 2006e). Samples of surface and subsurface soil, groundwater, surface water, and "ditch soil" found in man-made culverts adjacent to the AOC were collected and analyzed for TCL/TAL compounds (Parsons, 2006e). The only analytes found at concentrations in excess of NYSDEC's TAGM Industrial Use Soil Cleanup Objectives were two cPAHs [(carcinogenic Polycyclic Aromatic Hydrocarbons (benzo[a] pyrene and benzo[b] fluoranthene)] and lead. Additional data pertinent to the existing environmental conditions remaining at the AOC was subsequently developed during the interim removal action that was performed at the site (Parsons, 2008f). These data are provided in the CCR for SEAD-121C that describes and summarizes the results of the interim removal action that was performed for the elevated levels of lead.

The U.S. Government historically staged strategic stockpiles of ferromanganese ore in portions of SEAD-121I, and these stockpiles were present during the EBS and RI sampling events and into the early part of 2007. The Army indicated that the rail spur and sidings were used for delivery of equipment and machinery that was frequently packed in Cosmoline (oil). Cosmoline oil is a commonly used substance that prevents corrosion on metal parts and components. During delivery and unpacking of the equipment and machinery, oil from the packing may have been deposited on the ground.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-121C the human health cancer risks are within or below the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors are less than 1.0. For SEAD-121C, complete details of the human health risk assessment for each exposure route evaluated are presented in Appendix E of the Final RI report (Parsons, 2006e) for soil, ditch soil, groundwater, and surface water exposure.

An ecological risk assessment was performed for SEAD-121C. Preliminary screening level HQs were computed, and the Army applied the USEPA's recommended refinement of COC process to the results of the SLERA to determine if evaluation of ecological risks was warranted. After application of the refinement of COC process, no COCs were identified for SEAD-121C soil, SEAD-121C ditch soil, or SEAD-121C surface water and the rationales are summarized below. Specific details of the Refinement of COC Process are presented in the Final RI Report (Parsons, 2006f) Section 7.6.2 through 7.6.4. Based on the discussion, soil, ditch soil, surface water, and groundwater at SEAD-121C are not expected to significantly impact ecological receptors and no further action is warranted at SEAD-121C based on the ecological risk assessment.

The risk assessment concluded that at SEAD-121I the human health cancer risks are within or below the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all

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receptors except for the construction worker (1.5) are less than 1.0. For SEAD-121I, the post eleanup action non-carcinogenic hazard indices and carcinogenic risk results for the scenarios evaluated are summarized in Table 7-9 of the ROD (Parsons, 2008b). Details of the revised human health risk assessment for each exposure route are presented in Appendix E of the ROD for soil, ditch soil, and surface water exposure. Since this calculation, the ore piles were removed and the former staging areas cleaned up. The most significant contributing COPC (i.e., manganese) was reduced to levels below commercial and industrial cleanup objective levels, and the associated risk at SEAD-121I is considered suitable for its continuing use as industrial or commercial property.

An ecological risk assessment was performed for SEAD-121I. Preliminary screening level HQs were computed, and the Army applied the USEPA's recommended refinement of COC process to the results of the SLERA to determine if evaluation of ecological risks was warranted. After application of the refinement of COC process, no COCs were identified for SEAD-121I soil, ditch soil, or surface water and the rationales are summarized below. The reader is referred to the Final RI Report (Parsons, 2006f) Section 7.6.5 through 7.6.7 for specific details of the Refinement of COC Process. The source of the metal contamination at SEAD-121I was the strategic stockpiles of ferrous-manganese ore previously stored at the AOC. These stockpiles were removed in 2007, and a post-mission cleanup action was taken to remove residues associated with the historic stockpiling activities. Based on the above discussion, soil, ditch soil, and surface water at SEAD-121I are not expected to significantly impact ecological receptors and no further action is warranted at SEAD-121I based on the ecological risk assessment.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

Lead concentrations in surface soil were the focus of the remedial action at SEAD-121C. Approximately, 776 cubic yards of lead-impacted soil was excavated and disposed of off-site as non-hazardous waste. Confirmatory sampling concluded that no further remediation was required at SEAD-121C (Parsons, 2008f).

Samples of surface and subsurface soil, surface water and "ditch soil" found in man-made culverts adjacent to the AOC were collected and analyzed for TCL/TAL compounds. No final COCs were identified for any medium at SEAD-121I.

The RODs titled "Defense Reutilization and Marketing Office (DRMO) Yard (SEAD 121C) and the Rumored Cosmoline Oil Disposal Area (SEAD-121I)" (Parsons, 2008b) require the establishment of ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained at the two AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

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2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 4 to the SEAD LUC RD added SEADs 1, 2, 5, 16, 17, 59, 71, 121C and 121I in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehouse Area including properties that had been previously retained (including SEAD-121C and SEAD-121I) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-121C and SEAD-121I as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-121I and SEAD121C recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

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4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-121C and SEAD-121I was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-121C and 121I.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-121C and SEAD-121I is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-121C and SEAD-121I.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Ouestion A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-121I and SEAD-121C is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the two identified AOCs, and which
 has been expanded to encompass all land within the PID Area of the former Depot has been
 implemented and is currently being maintained, monitored and reported upon periodically; and
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

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The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-121C and SEAD-121I.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and Remedial Action objectives from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-121C, SEAD-121I, and the PID Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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P-PITP rotects Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LHC\LIC Inspections\LIC 5 Year Review 2015\Final\Text\r5\Appendix G - SEAD-121C

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment G-1 Five Year Review- Site Visit Photo Log SEAD-121C Defense Reutilization and Marketing Office (DRMO) Yard

PROJECT: Seneca Army Depot LUC Inspection

PROJECT#: 748662

SEAD-121C is located within the PID/ Warehouse Area Parcel.

2015 Site Visit Photo 1



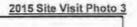
Status as of: 6/1/15 Description: SEAD-121C

Photo ID: IMG_6562.JPG 2015 Site Visit Photo 2



Status as of: 6/1/15 Description: SEAD-121C

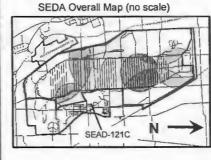
Photo ID: IMG_6566.JPG



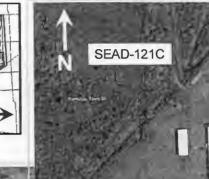


Status as of: 6/1/15 Description: SEAD-1210





LOCATION: SEAD-121C, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers



Bing.com (Microsoft) Aerial of SEAD-121C; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2010.



Approximate Site Boundary



Photo Viewing Direction



Bing.com (Microsoft) Birds Eye Aerial of SEAD-121C; actual date of aerial photo is unknown but based on observable features at SEDA it may be from Spring 2007.

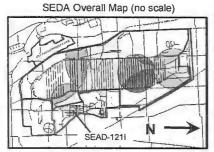
Attachment G-1 Five Year Review - Site Visit Photo Log SEAD-1211 Rumored Cosmoline Oil Disposal Area

PROJECT: Seneca Army Depot LUC Inspection 748662 PROJECT #:

LOCATION: SEAD-121I, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

2015 Site Visit Photo 2





Approximate Site Boundary

Photo Viewing



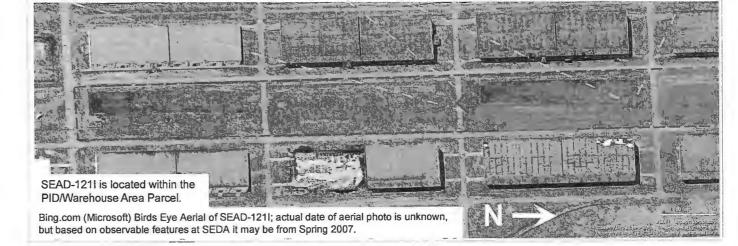
Bing.com (Microsoft) Aerial of SEAD-121I; actual date of aerial photo is unknown but based on observable features at SEDA it may be from Spring 2010.



Status as of: 6/1/15 Description: SEAD-121I Photo ID: IMG_6570.JPG



Status as of: 46/1/15 Description: SEAD-1211 Photo ID: img_6569.JPG



ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD 121C	Date of inspection: June [, 2015		
Location and Region: PLO area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55th		
Inspector: Dave Babcock, PE	Signature: Designature:		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	☐ Site map attached PhotoS		
П. INTERVIEWS	(Check all that apply)		
1. O&M site manager			
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
	Title Date Phone no.		
Agency ContactName	Title Date Phone no.		
4. Other interviews (optional) □ Report attached			

SEDA LUC Inspections Site Inspection Checklist

I. SITE INF	ORMATION
Site name: SEAD - (2/T	Date of inspection: June 1, 2015
Location and Region: PID area	EPA ID: NY0213820830
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 587 Light, Valin
Inspector: Dave Babcock, PE	Signature:
☐ Access controls ☐	Monitored natural attenuation Groundwater containment Vertical barrier walls No VISIAL EVACUACE of Vecent Leve activity or grandual of USE.
Attachments: DInspection team roster attached	□ Site map attached Photos Ny BBO
II. INTERVIEWS	(Check all that apply)
Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	
2. O&M staff	
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	ne no.
	Title Date Phone no.
Agency	Title Date Phone no.
 Other interviews (optional) □ Report attached. 	

APPENDIX H SEAD-25: FIRE TRAINING AND DEMONSTRATION PAD

APPENDIX H: SEAD-25 Fire Training and Demonstration Pad TABLE OF CONTENTS

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The Fire Training and Demonstration Pad (SEAD-25) site is located in the east-central portion of SEDA. The site is bounded to the east by Administration Avenue beyond which is undeveloped land covered by deciduous trees; to the south by Ordnance Drive beyond which is an open grassy field and a stand of coniferous trees; to the west by grassland, brush and conifers; and to the north by grassland and a baseball field.

SEAD-25 was in use from the late 1960s to the late 1980s. The pad was used for fire control training. During the 1980s, the pad was used twice for firefighting demonstrations, once in 1982 or 1983 and in 1987. For additional area specific background information for SEAD-25, please refer to the Draft 2015 Long-Term Monitoring Annual Report (Parsons, 2015).

1.2 Initial Response

SEAD-25 is described in three reports issued prior to the RI. The first report was the Work Plan for CERCLA ESI of Ten SWMUs written by Parsons Main, Inc. in January 1993. This report detailed the site work and sampling performed under the ESI. The second report was a SWMU Classification Report (Parsons ES, 1994a), which was undertaken to describe and evaluate the SWMU at SEDA. The third was an ESI Report (Parsons ES, 1995), which described a more detailed investigation of SEAD-25. The fieldwork for the ESI was conducted according to the Work Plan for CERCLA ESI of Ten SWMUs. Based on the results of the ESI, a RI Work Plan was prepared and the RI field program was conducted. A RI and Feasibility Study (FS) were completed for SEAD-25/26 in May 1998 and October 1998, respectively.

1.3 Basis for Taking Action

An action was required at SEAD-25 to ensure land use remains protective of site users. SEAD-25 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

The primary COCs at SEAD-25 are VOCs, specifically benzene, toluene, ethylbenzene, and xylene (BTEX) compounds in both soil and groundwater, as well as lesser amounts of chlorinated ethene compounds in groundwater. The VOC contaminants were believed to have been released to the environment during fire training activities at the Pad. In addition, varying concentrations of SVOCs were also detected in the soil and sediment, mainly in the drainage ditches on the periphery of the site. The primary impact to the groundwater resulted from two overlapping VOC plumes that both originated at the southwestern portion of SEAD-25 pad, neither of which extended beyond Ordnance Drive. The primary plume was approximately 200 feet long and composed of BTEX which is typically associated with gasoline. Results of groundwater contour mapping indicated that groundwater flow is radial below the pad, with a strong horizontal gradient to the south and west. The radial groundwater flow that has developed below the pad at SEAD-25 is believed to be a local phenomenon that is present because of the influence of the

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anthropomorphic bedrock topographic mound located below the pad. Less significant impacts from other contaminants were also detected at the site.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-25 there are human health cancer risks were within the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ for the current and future on-site construction worker, but above for the future on-site resident (1 x 10⁻³). The calculated non-cancer HI for the construction worker (HI=4) and resident (HI=10) for child and HI-5 for adult) were greater than 1.0, but less than 1.0 for the current site worker. These risks are mainly due to inhalation of VOCs in the ambient air and potential exposure of receptors to on-site groundwater containing benzene as their sole drinking water source.

The results of the ecological risk assessment presented in the RI report (Parsons ES, 1998) concluded that there was negligible risk to the ecosystems of the SEAD-25 study area. During the field evaluation, no overt acute toxic impacts were noted. The quantitative ecological risk evaluation determined that a possibility exists for the COPCs to present a small potential for environmental effects due to sediment at SEAD-25.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "The Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26) (Parsons, 2004b) required the following remedy and establishment of ICs. The elements that composed the remedy included:

- Excavate soil at the source in an area approximately 60 feet by 100 feet to a depth of 6 feet (approximately 1,350 cubic yards);
- Excavate a volume of sediment approximately 780 feet long, 3 feet wide and 2 feet deep (approximately 175 cubic yards) from the northwest ditch;
- Dispose of excavated soils in an appropriate off-site facility;
- Dewater the excavation pit;
- Treat groundwater that is recovered during excavation and during dewatering of excavation pit with an on-site air stripper;
- Replace excavated soil with clean backfill and establish a ground cover to avoid soil erosion;
- Conduct groundwater monitoring of the plume until NYSDEC Class GA groundwater standards are achieved (approximately 10 years);
- Establish and maintain land use controls to prevent access to or use of groundwater until cleanup standards are met. LUCs include to:
 - Prohibit the development and use of property for residential housing, elementary and secondary schools, childcare facilities and playground activities.

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- Prevent access to or use of the groundwater until NYS Class GA Groundwater Standards are met.
- Maintain the integrity of any current or future remedial or monitoring system at SEAD-25.
- Complete a review of the selected remedy every five-years (at minimum), in accordance with Section 121(c) of the CERCLA;
- Prepare a contingency plan that may include additional monitoring and air sparging of the plume, as necessary; and
- Once NYSDEC Class GA groundwater cleanup standards are achieved, the groundwater use restriction may be eliminated.

2.2 Remedy Implementation

The CCR (Parsons, 2006a) for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26), describes remedial action activities at SEAD-25 and SEAD-26 and presents sample collection and laboratory test results, record survey data, record (as-built) drawings, and photo documentation to demonstrate compliance with the requirements set forth by the ROD (Parsons, 2004b) and the Remedial Design Work plan and Design Report (Parsons, 2005a).

The excavation of the BTEX impacted soil at the pad at SEAD-25 began on November 15, 2005 and was completed on December 1, 2005, with soil removal totaling 961 cubic yards (cy). All confirmatory soil samples collected from the sidewalls of the excavation area and analyzed for VOCs and SVOCs representative of soil remaining onsite at the pad achieved the site-specific cleanup goals, and the soils at SEAD-25 do not require further action. The excavation of the soil at the pad removed the source of groundwater contamination.

Excavation of the SVOC impacted swale at SEAD-25 began on November 7, 2005 and was completed on November 8, 2005. The excavation extended from the toe of slope on one bank to the toe of slope on the other bank, resulting in the removal and off-site disposal of the swale soil (761 cy) at SEAD-25. Since the swale bottom consisted of exposed competent bedrock following excavation, no native material remained in the swale and confirmatory samples were not collected.

A total of 1,722 cubic yards (approximately 2,600 tons) of soil were excavated from the pad and the swale at SEAD-25 and disposed off-site at Ontario County Landfill. The pad excavation was backfilled and restored to the existing grade. LTM is currently on-going at SEAD-25 and has been conducted since 2007 (Parsons, 2007b; 2014).

SEAD-25 and S	SEAD-26	
Soil Removal Cleanup Goals		
	Cleanup Goal	
Analyte	(µg/Kg)	Goal Met?
Volatile Organic Compounds		
1,1,1-Trichloroethane	800	Yes
1,1-Dichloroethane	200	Yes
Benzene	60	Yes

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Chloroform	300	Yes
Ethyl Benzene	5,500	Yes
Toluene	1,500	Yes
Trichloroethene	700	Yes
Xylene (total)	1,200	Yes
Semivolatile Organic Compounds		
2-Methylnaphthalene	36,400	Yes
Naphthalene	13,000	Yes
Phenol	30	Yes
cPAHs (SEAD-26 only)		
cPAHs (BTE)*	10	Yes

^{*}cPAHs were only sampled at SEAD-26 and were compared to the Benzo(a)pyrene Toxicity Equivalence.

NYSDEC TAGM values from Technical and Administrative Guidance Memorandum HWR-92-4046, January 24, 1994

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 1 to the SEAD LUC RD (USACE, 2007) added SEAD 25, and 26 in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-25) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-25 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

- Continue the implementation of LUCs and the annual frequency of periodic reviews.
- Continue groundwater monitoring on a semi-annual basis at SEAD-25 until the 2010 2011 (Fourth Year) sampling cycle is completed. It was recommended that groundwater monitoring continue on an annual basis, and be conducted during a season (e.g., winter – early to mid-spring)

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when an adequate quantity of water is likely to be present in the overburden aquifer to support the required sampling

3.2 Progress on Recommendations

In general, the SEAD-25 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

The frequency of groundwater monitoring was reduced from semi-annual to an annual basis at SEAD-25 through this 2016 FYR. Recommendations on groundwater monitoring frequency are further discussed in Section 5.0

3.3 Issues, Recommendations and Follow-Up Actions

In the previous FYR, the Army made the following recommendations;

- Continue the implementation of LUCs and the annual frequency of periodic reviews.
- Continue groundwater monitoring on an annual basis at SEAD-25.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

In accordance with the ROD for the Fire Training and Demonstration Pad (SEAD-25) and the Final Remedial Design Report [(RDR) (Parsons, 2005a)], long-term groundwater monitoring is being performed at SEAD-25 as part of the continuing PCMM operations.

There have been twelve groundwater monitoring events conducted at SEAD-25, which have been documented in eight LTM reports. Groundwater monitoring was initially required as a condition of the ROD since contaminant concentrations found in the groundwater at the AOCs prior to the remedial action exceeded applicable groundwater standards. Semi-annual (i.e., twice each year) groundwater monitoring was performed at SEAD-25 from 2006 through 2011, and annual groundwater monitoring has been performed from 2011 to 2015 (present). A summary of the groundwater trends based on the RI results, post-remedial action to date is summarized in the Eighth Year Long-Term Monitoring Report for SEAD-25 (Parsons, 2015).

Based on the post-RA monitoring event results for SEAD-25 the Army currently reports that:

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- The concentrations of BTEX in the groundwater at SEAD-25 have decreased by up to two orders of magnitude since 1994;
- Volatile organic compounds COCs were not detected above cleanup goals in the five wells sampled during the 2015 LTM event;
- Groundwater impacts are not noted beyond the immediate area of the former Fire Training and Demonstration Pad, and downgradient wells (MW25-8, MW25-13, MW25-15 and MW25-19) have not shown evidence of BTEX or VOC contamination since the removal action was completed;
- The general trends of the field indicator parameters results for most of the LTM wells are
 inconclusive due to the historic lack of VOC contamination at these wells and the lack of an
 upgradient or background well for comparison; however, typically low DO and negative ORP
 values at MW25-2 suggests an environment conducive to anaerobic degradation;
- With the exception of MW25-2, VOC concentrations at SEAD-25 have generally decreased to levels close to or below the applicable groundwater standards;
- COCs are limited in concentration and are not migrating outside the vicinity of MW25-2. In general, any remaining contamination is restricted to the area in the vicinity of MW25-2;
- The soil excavation remedy at SEAD-25 has been effective;
- Land and groundwater restrictions imposed at SEAD-25 continue to be maintained as part of both
 the approved ROD for SEAD-25 and the larger Planned Industrial/Office or Warehousing Area
 ("PID Area") (Parsons, 2004; 2006). No residential housing, elementary and secondary schools,
 childcare facilities and playground activities have been constructed in this area, and there are no
 signs of unauthorized groundwater use or access; and
- Based on the information and discussion provided above, it appears that BTEX concentrations observed at MW25-2 fluctuate in correlation with changes in saturated thickness of the groundwater table, indicating that the increase is not due to the release of additional contaminants. The removal of the source area present at SEAD-25, and the verification that soils left at the site achieved cleanup objectives, supports the interpretation that a continuous release of contaminants at SEAD-25 is no longer occurring.

4.3 Site Inspection

SEAD-25 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

 No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-25. The 12 LTM groundwater monitoring wells were identified at SEAD-25 during the site visit. As discussed previously, many of the wells on the SEAD-25 site were decommissioned in September 2010.

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· No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-25 is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-25.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LTM Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-25 currently protects human health and the environment because:

- Contaminated soils and sediments previously identified at SEAD-25 to contain aromatic volatile
 organic compound and cPAHs have been excavated and disposed at licensed and approved off-site
 landfills where they are being managed in controlled and monitored environments;
- The open excavations were allowed to backfill with contaminated groundwater from the immediate
 vicinity of the excavation sites, and then this water was pumped from the excavation site, placed
 into storage vessels, sampled and analyzed, approved for disposal and then disposed at a wastewater
 treatment plant where treatment was performed in accordance with applicable environmental
 limitations;
- The open excavations were then backfilled with approved soil meeting required cleanup goals, and then a vegetative cover over the disturbed site was re-established;
- A post-remedial action groundwater monitoring program was also implemented at SEAD-25, and data collected from the monitoring program indicates that concentrations of groundwater contaminants identified prior to the remedial action have fallen to levels significantly below pre-remedial action concentrations, but continue to show periodic evidence of being above identified groundwater quality criteria. However, the data collected from the ongoing monitoring program show no expansion in the size of the apparent plume, and no indication that the suggest that it is only present in the immediate of the excavated source area;
- Access to and use of groundwater continues to be restricted; and
- The integrity of the monitoring well network present at SEAD-25, where the LTM continues, is

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being monitored and maintained; and

The results of the continuing LTM must not provide evidence that volatile organic compound concentrations are increasing back toward pre-removal action levels, or that the existing groundwater plume is expanding in size, or migrating into previously unaffected areas.

The selected remedy is still protective of human health and the environment. No early indicators of potential issues have been identified for SEAD-25. Recommendations for optimization of the LTM program are discussed further in Section 5.4.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 and Attachment 3 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-25 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

Based on the current area-wide LUC prohibiting the use of groundwater within the PID Area (which includes SEAD-25), the Army proposes to conclude LTM at SEAD-25 because of the following:

- Groundwater use is prohibited by the area-wide LUC and an alternate potable water source is available:
- Periodic LUC inspections will continue to insure that the groundwater is not accessed;
- Results from ten years of LTM indicate site COCs are not migrating outside the local area of MW25-2;

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- Trends demonstrate that the remedial action performed did not adversely impact groundwater; and,
- Concentrations within MW25-2 are decreasing and have reached the GA Standard in the most recent round.

LTM will continue based on the latest annual report. The wells will not be decommissioned at this time and sampling at these sites may take place in the future if the need arises (e.g., emerging contaminants, decisions during the next site annual report). Annual LUC inspections will continue to insure that the groundwater is not accessed. Based on EPA request, the Army has agreed to sample for perfluroalkyl substances [PFAS] at sites where Aqueous Film Forming Foams (AFFF) (e.g., firefighting foams) may have been used. As part of this program, future sampling for PFAS at SEAD-25 is expected.

5.5 **Protectiveness Statement**

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years. Additionally, SEAD-25 is located within the PID area, within which, an environmental easement and deed restriction prohibit both residential use and the use of groundwater.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

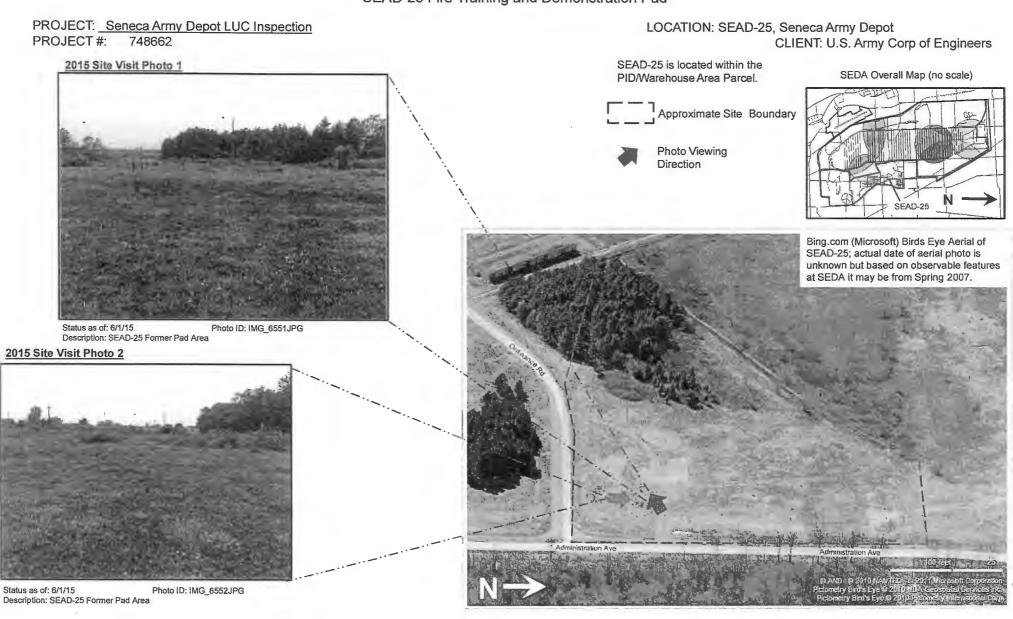
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ATTACHMENT 1

Photo Log

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Attachment H-1 Five Year Review - Site Visit Photo Log SEAD-25 Fire Training and Demonstration Pad



ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD -25	Date of inspection: June 1, 2015		
Location and Region: PID area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55°F Lightrain		
Inspector: Dave Babcock, PE	Signature: DENAN		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	☐ Site map attached	215	
II. INTERVIEWS	(Check all that apply)		
1. O&M site manager Name Title Date Interviewed □ at site □ at office □ by phone Phone no. Problems, suggestions; □ Report attached			
2. O&M staff Name Title Date Interviewed □ at site □ at office □ by phone Phone no. Problems, suggestions; □ Report attached			
office, police department, office of public health deeds, or other city and county offices, etc.) Fill Agency	Title Date Phone no.		
Agency ContactName	Title Date Phone no.		
4. Other interviews (optional) ☐ Report attached	i.		

APPENDIX I SEAD-26: FIRE TRAINING PIT AND AREA

APPENDIX I: SEAD-26 Fire Training Pit and Area

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The Fire Training Pit (SEAD-26) site is located in the southeastern portion of SEDA. The site is bounded to the east and west by SEDA railroad tracks; on the south by grassland and low brush; and on the north by 7th Street. Vehicular access is provided to the site via a locking gate on 7th Street.

SEAD-26 was in use from 1977 to 1994. The pit was approximately 75 feet in diameter and approximately 3 feet deep. A bentonite liner was installed in the pit in 1982 or 1983. The pit was used one to four times a year for firefighting training during which time various flammable materials were floated on water, ignited, and extinguished. Prior to 1977, the fire training area surrounding the pit may have also been used for fire demonstrations (Parsons, 2004b).

1.2 Initial Response

SEAD-26 is described in three reports before the RI. The first report was the Work Plan for CERCLA ESI of Ten SWMUs written by Parsons Main, Inc. in January 1993. This report detailed the site work and sampling performed under the ESI. The second report was a SWMU Classification Report (Parsons ES, 1994a), which was undertaken to describe and evaluate the SMWU at SEDA. The third was an ESI Report (Parsons ES, 1995), which described a more detailed investigation of SEAD-26. The fieldwork for the ESI was conducted according to the Work Plan for CERCLA ESI of Ten SWMUs. Based on the results of the ESI, a RI Work Plan was prepared and the RI field program was conducted. An RI and FS were completed for SEAD-25/26 in May 1998 and October 1998, respectively.

1.3 Basis for Taking Action

An action was required at SEAD-26 to ensure land use remains protective of site users. SEAD-26 is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

At SEAD-26, the primary contaminants detected included SVOCs and metals in the soil and sediments. In addition, low levels of volatiles were also detected in the groundwater at levels above NYSDEC GA Standards. However, the contaminants that exceeded NYSDEC GA Standards in the groundwater were no longer found in the soil of SEAD-26 due to attenuation of the contaminants in the soil (Parsons ES, 1998).

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-26 there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the future residential child (HI=1.3) are less than 1.0. The child receptor under the future residential scenario had a HI that slightly exceeded the target value due to dermal contact with groundwater and ingestion of site soils with cPAHs and arsenic.

The results of the ecological risk assessment presented in the RI report (Parsons ES, 1998) concluded that there was negligible risk to the ecosystems of SEAD-26 study area. During the field evaluation, no overt

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Properties Number 2015 Properties Cont W012DY 08-D 0003YT0#15 - LTM and LUCYLUC Inspections VI UC 5 Year Review 2015 Final View the SAD-26

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acute toxic impacts were noted. The quantitative ecological risk evaluation determined that a possibility exists for the COPCs to present a small potential for environmental effects due to sediment, soil, and surface water at SEAD-26. At SEAD-26, terrestrial receptors were mostly affected by COPCs in the soil.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "The Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26) (Parsons, 2004b) required the following remedies and establishment of ICs at SEAD-25 and SEAD-26. The preferred remedy consisted of the following elements:

- Excavate surface soils with total cPAH concentrations above 10 ppm, for an estimated total of 1050
- Dispose of excavated soils in an appropriate off-site facility;
- Conduct groundwater monitoring until the groundwater cleanup standards are met (approximately 20 years) in order to ensure that the VOCs present do not migrate off-site;
- Establish and maintain groundwater use controls to restrict groundwater access and use until cleanup standards are achieved;
- Complete a review of the selected remedy every five-years (at minimum), in accordance with Section 121(c) of the CERCLA;
- Prepare a contingency plan that may include additional monitoring and air sparging of the plume, as necessary, which would protect against VOC contamination migrating off-site; and
- Remove groundwater use restrictions once groundwater cleanup standards are achieved.
- Establish and maintain LUCs to:
 - Prevent access to or use of the groundwater until cleanup levels are met; and
 - Prevent residential housing, elementary and secondary schools, childcare facilities and playgrounds activities.
 - Maintain the integrity of any current or future remedial or monitoring system.

2.2 **Remedy Implementation**

The CCR (Parsons, 2006a) for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26), describes remedial action activities at SEAD-25 and SEAD-26 and presents sample collection and laboratory test results, record survey data, record (as-built) drawings, and photo documentation to demonstrate compliance with the requirements set forth by the ROD (Parsons, 2004b) and the Remedial Design Work plan and Design Report (Parsons, 2005a).

The initial excavation at SEAD-26 began on November 9, 2005 and was completed on November 15, 2005. Five distinct areas at SEAD-26 were excavated to a depth of 1 foot bgs, and a total of 828 cubic yards (1,248 tons) of soil was excavated and disposed off-site. Confirmatory soil samples were collected from

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the perimeter and the base of each of the five excavation areas and were analyzed for cPAHs. The edges of the five excavation areas were smoothed. All confirmatory samples representative of soil remaining on-site met the soil cleanup goals. Additional remediation of soils at SEAD-26 was not required.

SEAD-25 and SEAD-26			
Soil Removal Cleanup Goals Cleanup Goal			
Analyte	(µg/Kg)	Goal Met?	
Volatile Organic Compounds			
1,1,1-Trichloroethane	800	Yes	
1,1-Dichloroethane	200	Yes	
Benzene	60	Yes	
Chloroform	300	Yes	
Ethyl Benzene	5,500	Yes	
Toluene	1,500	Yes	
Trichloroethene	700	Yes	
Xylene (total)	1,200	Yes	
Semivolatile Organic Compounds			
2-Methylnaphthalene	36,400	Yes	
Naphthalene	13,000	Yes	
Phenol	30	Yes	
cPAHs (SEAD-26 only)			
cPAHs (BTE)*	10	Yes	

^{*}cPAHs were only sampled at SEAD-26 and were compared to the Benzo(a)pyrene Toxicity Equivalence.

NYSDEC TAGM values from Technical and Administrative Guidance Memorandum HWR-92-4046, January 24, 1994

LTM was conducted beginning in 2007; however, groundwater monitoring at SEAD-26 was terminated by the Army, with the approval of the USEPA and the NYSDEC, after the first year of sampling and analysis indicated that no COCs were present in the groundwater at concentrations above defined cleanup goals.

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the "PID/Warehouse Area. Addendum 1 to the SEAD LUC RD added SEAD 25, and 26 in accordance with the SEAD LUC RD Supplementation provision.

An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-26) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-26 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehousing Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with

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Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 **Progress on Recommendations**

In general, the SEAD-26 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data were reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-26 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-26.
- No access to or use of groundwater.

The selected remedy is still protective of public health and the environment.

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4.4 Interviews

Since SEAD-26 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-26.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-26 currently protects human health and the environment because:

- contaminated soils and sediments previously identified at SEAD-25 and SEAD-26 to contain aromatic VOCs and cPAHs have been excavated and disposed at licensed and approved off-site landfills where they are being managed in controlled and monitored environments;
- the open excavations were allowed to backfill with contaminated groundwater from the immediate
 vicinity of the excavation sites, and then this water was pumped from the excavation site, placed
 into storage vessels, sampled and analyzed, approved for disposal and then disposed at a wastewater
 treatment plant where treatment was performed in accordance with applicable environmental
 limitations;
- the open excavations were then backfilled with approved soil meeting required cleanup goals, and then a vegetative cover over the disturbed site was re-established;
- a post-remedial action groundwater monitoring program was also implemented at SEAD-26 (Fire Training Area Pit), and data collected during the first year of quarterly monitoring indicated that contaminants identified as being of concern in the groundwater prior to the remedial action were no longer present at concentrations in excess of groundwater standards. As a result of this finding, the Army requested regulatory approval to terminate groundwater monitoring at SEAD-26; this request was approved by both the USEPA and the NYSDEC; and
- access to and use of groundwater at both AOCs continues to be restricted.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-26.

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5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 and Attachment 3 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-26 and the PID Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

One issue was identified during this FYR. The Army has the following recommendations:

- Continue the implementation of LUCs and the annual frequency of periodic reviews;
- Based on EPA request, the Army has agreed to sample for perfluroalkyl substances [PFAS] at sites
 where Aqueous Film Forming Foams (AFFF) (e.g., firefighting foams) may have been used. As
 part of this program, future sampling for PFAS at SEAD-26 is expected. A sampling plan for
 SEAD-26 will be documented in a future report.

5.5 Protectiveness Statement

The remedy implemented for PID Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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ATTACHMENT 1

Photo Log

Attachment I-1 Five Year Review - Site Visit Photo Log SEAD-26 Fire Training Pit and Area

PROJECT: Seneca Army Depot LUC Inspection

PROJECT#: 748662

LOCATION: SEAD-26, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

2015 Site Visit Photos 1 and 2

SEAD-26 is located within the PID/Warehouse Area Parcel.



Approximate Site Boundary



Photo Viewing Direction

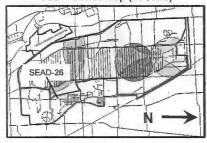


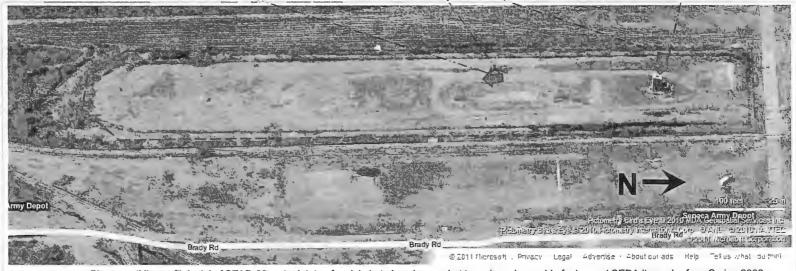


Status as of: 6/1/15 Photo ID: IMG_6571JPG Description: SEAD-26

Status as of: 6/1/15 Photo ID: IMG_6572JPG Description: SEAD-26

SEDA Overall Map (no scale)





Bing.com (Microsoft) Aerial of SEAD-26; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2006.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD - 260 (Fire Training)	Date of inspection: June 1, 2015			
Location and Region: PlDarea	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 550F Lightin			
Inspector: Dave Babcock, PE	Signature: DENGLEN			
□ Access controls □	Monitored natural attenuation Groundwater containment Vertical barrier walls Cute not recent activity or groundwater of the contact of the c	ondud		
Attachments:	☐ Site map attached Photos by BBO.			
II. INTERVIEWS	(Check all that apply)			
1. O&M site managerName Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date			
2. O&M staffName	Title Date			
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	ne no.			
office, police department, office of public health deeds, or other city and county offices, etc.) Fill	gencies (i.e., State and Tribal offices, emergency response the or environmental health, zoning office, recorder of all in all that apply.			
Agency Contact Name Problems; suggestions; □ Report attached	Title Date Phone no.			
Agency				
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
 Other interviews (optional) □ Report attached 	f.			

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APPENDIX J SEAD-27: BUILDING 360, STEAM JENNY PIT

APPENDIX J: SEAD-27 Building 360, Steam Jenny Pit

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

Building 360 is located in the eastern-central portion of the Depot. The building was used for refurbishing and reconstructing old equipment. Lathes, presses, and metal-working machines were degreased with steam, high-pressure water and detergents in the cleaning area. No solvent materials were ever used in the cleaning operation. After steam cleaning, the equipment was moved to other portions of Building 360 for rehabilitation.

The Steam Jenny Accumulation Pit (SEAD-27) is located within a high bay area of Building 360 that is located near the north end of the building and is separated from the remainder of the building by cinder block walls. The steam cleaning waste tank is a belowground, concrete tank above which track-mounted cars loaded with equipment requiring cleaning can be positioned and steam cleaned. Use of the Steam Cleaning Waste Tank began in 1976 and cleaning operations ceased on January 2, 1990.

1.2 Initial Response

A closure investigation was performed under the RCRA program in July of 1995 and the determination was made that the accumulation pit in Building 360 satisfied the RCRA requirements for clean closure (Parsons, 2004a). More details of these activities can be found in the Building 360 Closure report. The results of the chemical analyses can be found in the Mini Risk Assessment - Appendix B, Tables B-1 and B-2 (Parsons, 2002a) for soil and groundwater, respectively. Monitoring of the water elevation in the waste tank and the removal of accumulated water (if present) ceased once RCRA closure was completed and certified.

1.3 Basis for Taking Action

An action was required at SEAD-27 to ensure land use remains protective of site users. SEAD-27 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

The RCRA Closure Work Plan required testing of all potential contaminants found at the site during the operation of the Steam Jenny Tank. Therefore, soil and groundwater samples were collected and analyzed for VOCs, PCBs, cadmium, chromium, and lead. Groundwater samples were also analyzed for SVOCs. No compounds of concern were detected in SEAD-27 soils. Acetone and naphthalene were detected in groundwater; however, at the time no NYS Class GA groundwater quality standards existed for these compounds. If the site were to be used as a residential area, the human health risk assessment determined that a LUC on groundwater use would be necessary.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-27 under an industrial scenario there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the day care center child (HI=3) are less than 1.0. Maximum site concentrations were used as the exposure EPCs for SEAD-27. The elevated HI for the day care center child

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was due solely to ingestion of groundwater, with naphthalene, acetone and chromium being the significant risk contributors.

A risk assessment was also conducted for a residential scenario. The total cancer risk from all exposure routes was within or below the USEPA target range for both receptors (adult resident and child resident). The total non-cancer HI from all exposure routes exceeded one for the adult resident (HI=2) and the child resident (HI=7). The elevated HI for the adult was due solely to ingestion of groundwater and the elevated HI for the child was due to ingestion of groundwater and dermal contact of groundwater. Naphthalene and acetone were the significant risk contributors.

Based on the data, should SEAD-27 be used as a residential area, it would be necessary to place a LUC on groundwater use. This would restrict the use of groundwater as a drinking water source, preventing exposure to groundwater. This restriction results in the non-cancer HI being less than 1 for both child and adult receptors. No COCs were detected in SEAD-27 soils.

2.0 REMEDIAL ACTIONS

2.1 **Remedy Selection**

Other than the activities related to the Closure Investigation, no remedial actions were performed at the site (International Technology Corporation, 1995; Parsons, 2004a).

The ROD titled "Record of Decision for Sites Requiring Institutional Controls in the Planned Industrial/Office Development or Warehousing Areas" (Parsons, 2004a) required the establishment of the following ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area.

An Environmental Easement for the PID/Warehousing Area was recorded in the Seneca County Clerk's office on March 4, 2008.

SEAD-27 was transferred to the SCIDA with a Quitclaim Deed executed on September 30, 2005. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehousing Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with

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Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-27 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-27 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-27.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

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4.4 Interviews

Since SEAD-27 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-27

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-27 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the AOCs, within the PID Area of
 the former Depot has been implemented and is currently being maintained, monitored and reported
 upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds for all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-27.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

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5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-27 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

Protectiveness Statement 5.5

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment J-1 Five Year Review - Site Visit Photo Log SEAD-27 Building 360, Steam Jenny Pit

PROJECT: Seneca Army Depot LUC Inspection
PROJECT #: 748662

LOCATION: SEAD-27, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEDA Overall Map (no scale)

SEAD-27 N →



Bing.com (Microsoft) Aerial of SEAD-27 actual date of aerial photo is unknown but based on observable features at SEDA its from Spring 2010.



Approximate Site
Boundary



Photo Viewing Direction

SEAD-27 is located within the PID/ Warehouse Area Parcel.

2015 Site Visit Photo 1



Status as of: 6/1/15 Description: SEAD-27

Photo ID: IMG_6567.JPG

2015 Site Visit Photo 2



Status as of: 6/1/15 Description: SEAD-27

Photo ID: IMG_6568.JPG



features at SEDA it may be from Spring 2007.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INF	ORMATION
Site name: SEAD 27	Date of inspection: June , 2015
Location and Region: PLDayca	EPA ID: NY0213820830
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 550F.
Inspector: Dave Babcock, PE	Signature:
☐ Access controls ☐ €	Monitored natural attenuation Groundwater containment Vertical barrier walls The vehicles parked near bldg Bloo. No VISUAL guidered of record Selo. No VISUAL guidered of record
Attachments:	□ Site map attached Photos a 880
II. INTERVIEWS	(Check all that apply)
Name Interviewed □ at site □ at office □ by phone Phon Problems, suggestions; □ Report attached 2. O&M staff Name Interviewed □ at site □ at office □ by phone Phon Problems, suggestions; □ Report attached	Title Date
	Title Date Phone no.
 Other interviews (optional) □ Report attached. 	

APPENDIX K SEAD-64A: GARBAGE DISPOSAL AREA

APPENDIX K: SEAD-64A Garbage Disposal Area

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-64A is located in the east-central portion of SEDA. The site is bounded to the north by a square storage pad, to the east by the SEDA railroad tracks beyond which is the area where the Fire Training site (SEAD-26) is located, and to the south and west by undeveloped grassland. SEAD-64A was used during the period from 1974 to 1979 when the on-site solid waste incinerator was not in operation. The types of wastes disposed at the site are suspected to be primarily household items (Parsons, 2002a).

1.2 Initial Response

A field investigation was conducted at SEAD-64A beginning in February 1994 as part of the ESI for Seven Low Priority AOCs (Parsons, 1996). A geophysical survey was conducted, and soil and groundwater samples were collected and submitted for analysis.

1.3 Basis for Taking Action

An action was required at SEAD-64A to ensure land use remains protective of site users. SEAD-64A is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas. The potential future hazards or risks identified at SEAD-64A is either suitable for the defined use, or associated with compounds that are present at concentrations that are equal to or less than naturally occurring levels.

1.3.1 Contaminants of Concern

During the ESI sampling, aluminum, iron, manganese, and thallium were detected in groundwater at levels that exceeded their respective comparative criteria levels. Results are summarized in the ROD (Parsons, 2004a).

Several cPAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene], phenol, and several metals (aluminum, arsenic, chromium, copper, lead, potassium, and zinc) were detected at levels that exceeded applicable TAGM 4046 soil cleanup objectives in one or more soil samples. In groundwater, aluminum, iron, manganese, and thallium were detected at levels that exceeded their respective comparative criteria levels (Parsons, 2004a).

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-64A under a warehouse land use scenario the human health cancer risks are below the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} , and the calculated non-cancer HI for all receptors are less than 1.0.

In addition, risks to residential receptors (i.e., residential adult and residential child) have been evaluated based on the 1994 soil and groundwater data. The total cancer risks are below or at the USEPA upper target limit for all receptors. The total non-cancer HI from all exposure routes are equal to or greater than 1.0 for residential receptors. Groundwater ingestion is the only exposure route that would result in significant risk to residential receptors; however, the non-cancer hazard indices are overstated as the metal concentrations in groundwater were elevated due to the elevated turbidities in the groundwater samples.

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The risk assessments was conducted for SEAD-64A based on the 1994 soil and groundwater data. The results of total cancer risk and total non-cancer hazard index can be found in Table 3.5-10 of the Final Decision Document - Mini Risk Assessment, Seneca Army Depot Activity (Parsons, 2002a).

An ecological risk assessment was also conducted to evaluate potential risks to deer mice, short-tailed shrews, and American robins posed by the COPCs detected in surface soils at SEAD-64A. The hazard quotients (HQs) estimated for all COPCs found in shallow soil were found less than one with the exception of benzo(a)pyrene, bis(2-ethylhexyl)phthalate, fluoranthene, and lead. The elevated risks driven by the listed compounds were associated with one surface soil sample. As a planned warehouse development, this site would most likely not support a balanced habitat. Based on the above discussion, it is concluded that SEAD-64A would not pose significant risk to potential ecological receptors. The results of the risk assessment are presented and described in detail within the Final Decision Document – Mini Risk Assessment, Seneca Army Depot Activity (Parsons, 2002a).

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for Sites Requiring Institutional Controls in the Planned Industrial/Office Development or Warehousing Areas" (Parsons, 2004a) required the establishment of the following ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.
- Establishing, maintaining, monitoring, and reporting on a third LUC prohibiting digging within the bounds of the site will be established.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area.

An Environmental Easement for the PID/Warehousing Area was recorded in the Seneca County Clerk's office on March 4, 2008.

SEAD-66 was transferred to the SCIDA with a Quitclaim Deed executed on September 30, 2005. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehousing Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with

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Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-64A recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data was reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-64A was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-64A.
- No access to or use of groundwater.
- No unauthorized digging or excavation occurred on the SEAD-64A Controlled Property.

The selected remedy is still protective of human health and the environment.

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4.4 Interviews

Since SEAD-64A is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-64A

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at the SEAD-64A is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the PID Warehousing Area of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds for all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically; and
- a third LUC that prevents unauthorized excavation at the SEAD 64A site alone has been implemented, monitored, and periodically reported upon.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-1.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to,

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or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-64A and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment K-1 Five Year Review - Site Visit Photo Log SEAD-64A Garbage Disposal Area

SEAD-64A is located within the PID/Warehouse Area Parcel.

LOCATION: SEAD-64A, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEDA Overall Map (no scale)

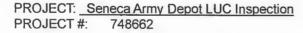
SEAD-64A

Photo Viewing

Direction

Approximate Site

Boundary





Status as of 6/1/15 Description: SEAD-64A

Photo ID: IMG_6575.JPG

2015 Site Visit Photo 2



Status as of: 6/1/15 Description: SEAD-64A

Photo ID: IMG_6573.JPG

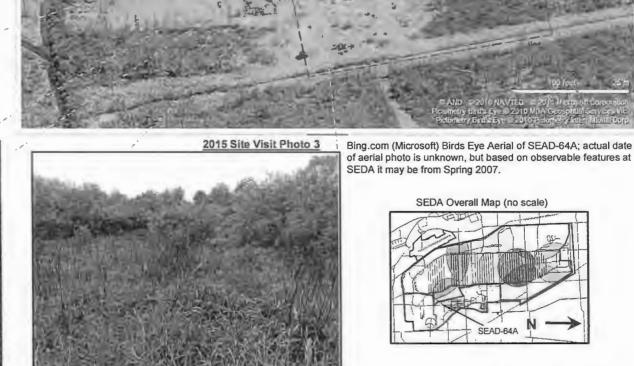


Photo ID: IMG_6574.JPG

Status as of: 6/1/15

Description: SEAD-64A

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD - 64A	Date of inspection: June 1, 2015		
Location and Region: PIDarea	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Do Rain, Steped		
Inspector: Dave Babcock, PE	Signature: Belian		
☐ Access controls ☐	Monitored natural attenuation Groundwater containment Vertical barrier walks and received of exchange and containing of their activity or ground development.		
Attachments: □Inspection team roster attached	□ Site map attached Photos by BBO,		
II. INTERVIEWS	(Check all that apply)		
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
Problems; suggestions; □ Report attached	Title Date Phone no.		
Agency	Title Date Phone no.		
 Other interviews (optional) □ Report attached 			

APPENDIX L SEAD-66: PESTICIDE STORAGE AREA

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

Pesticides were reportedly stored in a structure located in the vicinity of Buildings 5 and 6 during the Army's active use of the SEDA. The Pesticide Storage Area near Buildings 5 and 6 (SEAD-66 is located in the east-central portion of SEDA. The exact location of the pesticide storage area is unknown.

1.2 Initial Response

A LSP was performed at SEAD-66 in December 1993. Surface soil samples collected from SEAD-66 were analyzed for TCL pesticides according to the NYSDEC Contract Laboratory Program (CLP) Statement of Work (SOW). Results of the chemical analyses for soil can be found in the Final Decision Document – Mini Risk Assessment (Appendix Q, Table Q-1) (Parsons, 2002a).

1.3 Basis for Taking Action

An action was required at SEAD-66 to ensure land use remains protective of site users. SEAD-66 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Nine soil samples were collected from SEAD-66. Two pesticides, 4,4'-DDE and 4,4'-DDT were both detected at levels exceeding TAGMs in sample SS66-8 that was taken from a depth of 0-0.2 ft. The soil data are presented in the ROD (Parsons, 2004a). No groundwater samples were collected.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-66 under an industrial scenario the human health cancer risks are within the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} , and the calculated non-cancer HI for all receptors are less than 1.0.

A risk assessment was also conducted for a residential scenario. The total cancer risk from evaluated exposure routes is within or below the USEPA target range for the potential adult and child resident receptors. The total non-cancer HI exceeds 1.0 for the child resident. The elevated HI for the child receptor is due solely to ingestion of soil with 4,4'-DDT being the significant risk contributor. 4,4'-DDT is not considered a COC in soil at this site for this exposure scenario.

An ecological risk assessment, which is described and presented in Section 3.0 of the Decision Document (Parsons, 2002), was conducted at SEAD-66. No significant ecological risk was found.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for Sites Requiring Institutional Controls in the Planned Industrial/Office Development or Warehousing Areas" (Parsons, 2004a) required the establishment of the following ICs. The elements that composed the remedy included:

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- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited exposures.

2.2 **Remedy Implementation**

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area.

An Environmental Easement for the PID/Warehousing Area was recorded in the Seneca County Clerk's office on March 4, 2008.

SEAD-66 was transferred to the SCIDA with a Quitclaim Deed executed on September 30, 2005. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 **Progress on Recommendations**

In general, the SEAD-66 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

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4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data was reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-66 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-66
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-66 is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-66.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at the SEAD-66 is currently protective of human health and the environment because:

 a LUC that prevents access to, and use of, groundwater within the PID/Warehousing Area of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically; and,

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 a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds for all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-66.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-66 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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ATTACHMENT 1

Photo Log

Attachment L-1 Five Year Review - Site Visit Photo Log SEAD-66 Pesticide Storage near Buildings 5 and 6

PROJECT: Seneca Army Depot LUC Inspection PROJECT #: 748662

LOCATION: SEAD-66, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

2015 Site Visit Photo 2

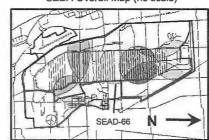


SEAD-66 is located within the PID/Warehouse Area Parcel.





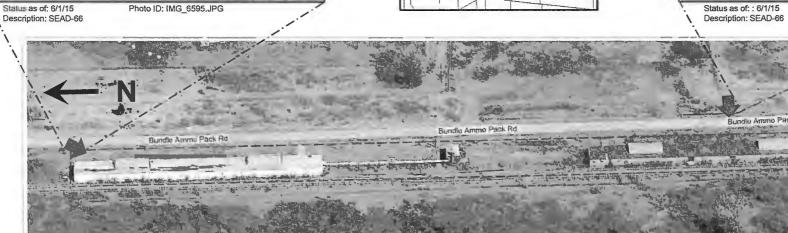
SEDA Overall Map (no scale)





Status as of: : 6/1/15

Photo ID: IMG_6595.JPG



Bing.com (Microsoft) Birds Eye Aerial of SEAD-66; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2007.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD - 66	Date of inspection: June 1, 2015		
Location and Region: PID orea	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: & The warm		
Inspector: Dave Babcock, PE	Signature:		
Remedy Includes: (Check all that apply) Landfill cover/containment Date Access controls Date Institutional controls Date Groundwater pump and treatment Surface water collection and treatment Other	Monitored natural attenuation Groundwater containment Vertical barrier walls VISUAL observation VISUAL observation Oractivity Section Oractivit	hay wall	
Attachments:	☐ Site map attached		
II. INTERVIEWS	(Check all that apply)		
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
	encies (i.e., State and Tribal offices, emergency response a or environmental health, zoning office, recorder of l in all that apply.		
ContactName	Title Date Phone no.		
Agency Contact Name Problems; suggestions; ☐ Report attached	Title Date Phone no.		
4. Other interviews (optional) □ Report attached			

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APPENDIX M SEAD-39: BUILDING 121 BOILER BLOW DOWN PIT

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-39 (Building 121 Boiler Blow Down Pit) is a boiler plant located in the administrative area of the former SEDA. SEAD-39 is the historic blowdown leaching area that was located exterior to, and immediately north of, Building 121. Use of the leaching area was terminated in 1979 or 1980 when boiler blowdown points within the Depot were connected to a sanitary sewer system (Parsons, 2007a).

1.2 Initial Response

Site work performed at SEAD-39 included a LSP in 1993 and a TCRA, which included confirmatory sampling. A TCRA was completed at SEAD-39 in August 2003. The excavated area was backfilled and returned to its original grade. The north end of Building 121 and two paved roads helped define and limit the border of the excavation.

Thirty-four (34) tons of soil was excavated at SEAD-39 to a depth of 1-foot in August 2003. Following the excavation, surface soil samples were collected for chemical analysis of Volatile Organic Compounds (VOCs), PAHs, and metals, but none of the measured concentrations exceeded NYSDEC's TAGM soil cleanup objectives. Average concentrations of metals detected at this AOC were at levels consistent with SEDA site-wide background data. Based on the confirmatory and delineation samples, it was determined that further excavation would not be necessary at SEAD-39 (Parsons, 2002b).

1.3 Basis for Taking Action

An action was required at SEAD-39 to ensure land use remains protective of site users. SEAD-40 is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Prior to connecting the boiler blowdown points to the sewer in 1979-1980, blowdown was reportedly released three times a day, and the discharged liquid was allowed to flow onto the ground at the blowdown point where it either infiltrated into the ground or flowed into the street. Each boiler was reported to have discharged between 400 and 800 gallons of blowdown liquids per day. The boiler blowdown was suspected to have contained water, tannins, caustic soda (sodium hydroxide), and sodium phosphate.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-39 the human health cancer risks were within or at the upper limit of the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors are less than 1.0. The human health risk at SEAD-39 was evaluated using the 95th UCL value for each COC determined from the 15 sample confirmatory soil sample data set as the EPCs.

The Army also completed a risk assessment for SEAD-39, which evaluated the likely risks associated with all chemicals identified at this AOC based on a central tendency exposure (CTE) scenario for the likely receptors. Although the elevated levels of PAHs found in the area of Building 121's roof line drip are not associated with the former blowdown operation, they are nonetheless present at this AOC. The results of

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the alternate risk assessment (industrial scenario, 95th UCL of 16 point data set, central tendency exposure) are presented in the ROD (Parsons, 2007a). The results of this evaluation again indicate that HIs for all industrial receptors were below the USEPA acceptable limits (i.e., HI of 1 or less). Similarly, the cancer risk for the industrial worker, construction worker, and adolescent trespasser were each within or less than the USEPA's preferred cancer risk levels (i.e., 10⁻⁴ to 10⁻⁶ or less). The cancer risk for the daycare center child under the CTE scenario was 4 x 10⁻⁴.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD (Parsons, 2007a) titled, "Seventeen No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" for seventeen sites that include LUCs as part of the remedy. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 2 to the SEAD LUC RD added SEAD 39, 40, and 67.

An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-39) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-39 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

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3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-39 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-39 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-39.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-39 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-39

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4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. Remedial Actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LTM Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-39 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has
 been expanded to encompass all land within the PID/Warehousing, Institutional, and Airfield
 Parcel of the former Depot has been implemented and is currently being maintained, monitored and
 reported upon periodically; and,
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment.

No opportunities for optimization or early indicators of potential issues have been identified for SEAD-39.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehousing Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and Remedial Action objectives from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

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P-PITP principal Vision W912DV-08-D-0003VTO#15 - LTM and LUCVLIC Inspections LUC 5 Year Review 2015 Final View V75 Anneadix M - SEAD-39

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-39 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

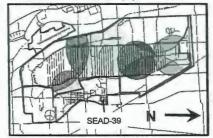
ATTACHMENT 1

Photo Log

Attachment M-1 Five Year Review - Site Visit Photo Log SEAD-39 Building 121 Boiler Plant Blowdown Leach Pit

PROJECT: Seneca Army Depot LUC Inspection
PROJECT#: 748662

SEDA Overall Map (no scale)



2015 Site Visit Photo 1



Status as of: 6/1/15 Photo ID: IMG_6538,JPG Description: SEAD-39 blowdown pit in foreground



Bing.com (Microsoft) Aerial of SEAD-39; actual date of aerial photo is unknown but based on observable features at SEDA it may be from Spring 2006.

LOCATION: SEAD-39, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEAD-39 is located within the PID/Warehouse Area Parcel.



Approximate Site Boundary



Photo Viewing Direction

2015 Site Visit Photo 2



Status as of: 6/1/15 Photo ID: img_6540.JPG Description: SEAD-39, area of blowdown leaching pit.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD -39	Date of inspection: June, 2015			
Location and Region: PID and	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 050t.			
Inspector: Dave Babcock, PE	Signature: Day			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:	☐ Site map attached None other than			
II. INTERVIEWS (A 1 -			
1. O&M site manager	Title Date			
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date e no.			
	Title Date Phone no.			
Agency	Title Date Phone no.			

APPENDIX N SEAD-40: BUILDING 319 BOILER BLOWDOWN LEACH PIT

APPENDIX N: SEAD-40 Building 319 Boiler Blowdown Leach Plt TABLE OF CONTENTS

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2.2	Remedy Implementation	N-2
2.3	System Operations/Operation and Maintenance	N-2
3.0	PROGRESS SINCE LAST FIVE-YEAR REVIEW	N-2
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3.2	Progress on Recommendations	N-3
4.0	FIVE-YEAR REVIEW PROCESS	N-3
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4.3	Site Inspection	N-3
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4.5	Institutional Controls Verification	N-3
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5.3 prote	Question C: Has any other information come to light that could call into ques ectiveness of the remedy?	
5.4	Issues, Recommendations and Follow-Up Actions	N-5
5.5	Protectiveness Statement	N-5

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-40 (Building 319 Boiler Blow Down Pit) is a boiler plant located on 1st Street in the east-central portion of the Depot. The historic blowdown leach pit that constitutes SEAD-40 was located in a drainage ditch next to the railroad tracks located north of Building 319. A drainage pipe originating in Building 319 is suspected to have carried blowdown liquids to the drainage ditch, where they were released and allowed to flow onto the ground. The drainage ditch originated at the mouth of the drainage pipe approximately 30 ft. northeast of Building 319 (Parsons, 2007a).

1.2 Initial Response

The investigative work at SEAD-40 included a LSP in 1993 and 1994 followed by a TCRA conducted in 2002 and 2003. A TCRA was completed at SEAD-40 in August 2003, and approximately 39 tons of soil were removed. Approximately 39 tons of soil were removed from SEAD-40. The impacted soil was excavated at one section to a depth of 1 foot below ground surface and at another section to a depth of 6 feet below ground surface. Eighteen post-excavation samples were analyzed for VOCs, PAHs, and metals (Weston, 2004). Additional confirmation and delineation samples were collected; the results of which determined that further excavation would not be necessary at SEAD-40 (Parsons, 2002b; 2007a).

1.3 Basis for Taking Action

An action was required at SEAD-40 to ensure land use remains protective of site users. SEAD-40 is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Prior to connecting the boiler blowdown points to the sewer in 1979-1980, blowdown was reportedly released three times a day, and the discharged liquid was allowed to flow onto the ground at the blowdown point where it either infiltrated into the ground or flowed into the nearby drainage ditch. Each boiler is reported to have discharged between 400 and 800 gallons of blowdown liquids per day. The boiler blowdown is suspected to have contained water, tannins, caustic soda (sodium hydroxide), and sodium phosphate.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-40 there are no human health cancer risks above the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} , and the calculated non-cancer HI for all receptors are less than 1.0. Data from the confirmatory sampling performed for the TCRA provided the basis of a risk assessment that was performed to assess potential site risks at SEAD-40.

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PAPPTNP project N March 1970 No. D. 0003/TO#15 - 1 TM and 1970 U.C. Increasing N U.C. S. Veer Paview 2015/Final/Text/r5/Appendix N - SFAD-40

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD (Parsons, 2007a) titled, "Seventeen No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" for seventeen sites that include LUCs as part of the remedy. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and
 use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited
 exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 2 to the SEAD LUC RD added SEAD 39, 40, and 67.

An Environmental Easement for the PID/Warehouse Area including properties that had been previously retained (including SEAD-40) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-40 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehousing Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

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3.2 Progress on Recommendations

In general, the SEAD-40 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-40 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-40.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-40 is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-40

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

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PAPT/Projects/Huntsville Cont W912 DV-08-D-0003/TO#15 - LTM and LHCVLIC Inspections/LUC 5 Year Review 2015/Final/Text/r5/Appendix N - SEAD-40

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. Remedial Actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LTM Reports, LUC RD, Environmental Easements, transfer deeds and FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at SEAD-40 currently is protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the PID/Warehousing Area, Institutional, and Airfield Parcel of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically;

The selected remedy is still protective of human health and the environment.

No opportunities for optimization or early indicators of potential issues have been identified for SEAD-40.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-40 and the PID/Warehousing Areas. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

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P;PTVProjects\Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUC\LUC Inspections\LUC 5 Year Review 2015\Final\Text\r5\Appendix N - SEAD-40

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for PID Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment N-1 Five Year Review - Site Visit Photo Log SEAD-40 Building 319 Boiler Blowdown Leach Pit

PROJECT: Seneca Army Depot LUC Inspection LOCATION: SEAD-40, Seneca Army Depot PROJECT #: 748662 CLIENT: U.S. Army Corp of Engineers 2015 Site Visit Photo 1 SEAD-40 is located within the PID/Warehouse Area Parcel. Photo Viewing Approximate Site Boundary Direction Bing.com (Microsoft) Aerial of SEAD-40; actual date of aerial photo is unknown but based on observable features at SEDA it may be from Spring 2010. SEAD-40 Status as of: 6/1/15 Photo ID: IMG_6557.JPG Description: SEAD-40 SEAD-40 SEDA Overall Map (no scale) Bing.com (Microsoft) Birds Eye Aerial of SEAD-40; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2006.

ATTACHMENT 2

Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD -40	Date of inspection: June 1, 2015		
Location and Region: Plo area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 550F		
Inspector: Dave Babcock, PE	Signature: Salan		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	□ Site map attached Phates by BCO.		
	(Check all that apply)		
Name Title Date Interviewed □ at site □ at office □ by phone Phone no. Problems, suggestions; □ Report attached			
2. O&M staff Name Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	Title Date		
office, police department, office of public health deeds, or other city and county offices, etc.) Fil Agency Contact Name	encies (i.e., State and Tribal offices, emergency response nor environmental health, zoning office, recorder of l in all that apply. Title Date Phone no.		
	Title Date Phone no.		
4. Other interviews (optional) □ Report attached	I.		

APPENDIX O

SEAD-67: DUMP SITE EAST OF SEWAGE TREATMENT PLANT NO. 4

APPENDIX O: SEAD-67 Dumpsite East of Sewage Treatment Plant No. 4 TABLE OF CONTENTS

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Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-67 (Dump Site East of Sewage Treatment Plant No. 4) is located in the central eastern portion of SEDA, immediately south of West Romulus Road and east of Sewage Treatment Plant No. 4 (SEAD-20). Five waste soil piles and two soil berms were formerly staged at the SEAD-67 site. The origin of the berms and waste piles is unknown.

1.2 Initial Response

Previous work at SEAD-67 included an ESI in 1993 and a TCRA from 2002 to 2004. Analytical results for the samples collected can be found in "Decision Document for Removal Actions at SWMUs SEAD-24, SEAD-50, SEAD-54, and SEAD-67" (Parsons, 2002c). The analytical results of the ESI provided the basis for conducting the TCRA at SEAD-67.

A TCRA to remove the waste soil was performed between 2002 and 2004 (Weston, 2005a). The excavated soil was classified as non-hazardous soil for treatment and disposal. Subsequently, the TCRA expanded to include the removal of surface soil underlying and surrounding the locations of the former piles and berms. Surface soils were excavated to a depth of 12 in. At the end of the TCRA, more than 1,300 cubic yards of soil was removed from the SEAD-67 site. Due to the shallow nature of the final excavations, backfill was not used at SEAD-67; the sidewalls of the excavation were graded to smooth the contour differences between the original ground surface and the bottom of the excavation (Parsons, 2002c).

1.3 Basis for Taking Action

An action was required at SEAD-67 to ensure land use remains protective of site users. SEAD-40 is part of the PID/Warehousing Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

Samples collected as part of the ESI were analyzed for VOCs, SVOCs, pesticides/PCBs, metals, and cyanide. Fifty (50) TCL/TAL compounds were detected in the soil samples, and 10 compounds, including five cPAHs and five metals, were detected at concentrations that exceeded their respective TAGM cleanup objective values. Compounds found at concentrations above applicable TAGM 4046 soil cleanup objectives included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, calcium, lead, manganese, mercury, and potassium. Surface water results indicated that the unnamed stream near SEAD-67 has not been significantly impacted by contaminants. Available data indicated that the groundwater has not been significantly impacted by historic operations at SEAD-67 (Parsons, 2007a).

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-67 the human health cancer risks were within or below the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors are less than 1.0.

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SVOC data from the confirmatory sampling performed for the TCRA provided the basis of the risk assessment and the 95th UCL of the mean was used as the EPC for each of the SVOC COCs.

2.0 REMEDIAL ACTIONS

2.1 **Remedy Selection**

The ROD (Parsons, 2007a) titled, "Seventeen No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" for seventeen sites that include LUCs as part of the remedy. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,
- Establishing, maintaining, monitoring, and reporting on a second LUC that prohibits access to and use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited exposures.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 2 to the SEAD LUC RD added SEAD 39, 40, and 67.

An Environmental Easement for the PID/Warehousing Area including properties that had been previously retained (including SEAD-40) by the Army in 2008 was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-67 as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

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3.2 Progress on Recommendations

In general, the SEAD-67 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data were reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-67 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-67 is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-67.

4.5 **Institutional Controls Verification**

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

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5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. Remedial Actions required by completed RODs for AOCs within the PID/Warehouse Area have been completed and documented. No continuing active remediation is required in the PID/Warehouse Area. Based on a review of Closure Reports, LUC RD, Environmental Easements, transfer deeds and the FYR site visit conducted between June 1 and June 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at the SEAD-67 is currently protective of human health and the environment because:

- a land use control that prevents access to, and use of, groundwater within the identified AOCs, and
 which has been expanded to encompass all land within the PID/Warehousing Area, Institutional,
 and Airfield Parcel of the former Depot has been implemented and is currently being maintained,
 monitored and reported upon periodically;
- a second land use control that prevents the use of or the development of the property for residential
 housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and
 which also has been expanded to include all land within the PID/Warehousing Area has been
 implemented and is currently being maintained, monitored, and reported upon periodically;

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-67.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

As described in Section 9.3.1 of the main FYR document, there was a change in the NY soil and groundwater standards. It was determined that the clean-up levels and RAOs from earlier RODs are considered still valid. Since the soil and groundwater cleanup standards for the remedy are equivalent to, or more stringent than human-health-based promulgated standards and cleanup criteria, the cleanup standards remain protective of human health.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-67 and the PID/Warehousing Areas. There have been no changes in the physical conditions of

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P-VETT-Projects Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LHCVLIC Inspections\LUC 5 Year Review 2015\Final\Text\r5\Appendix O - SEAD-67

the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 **Protectiveness Statement**

The remedy implemented for PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

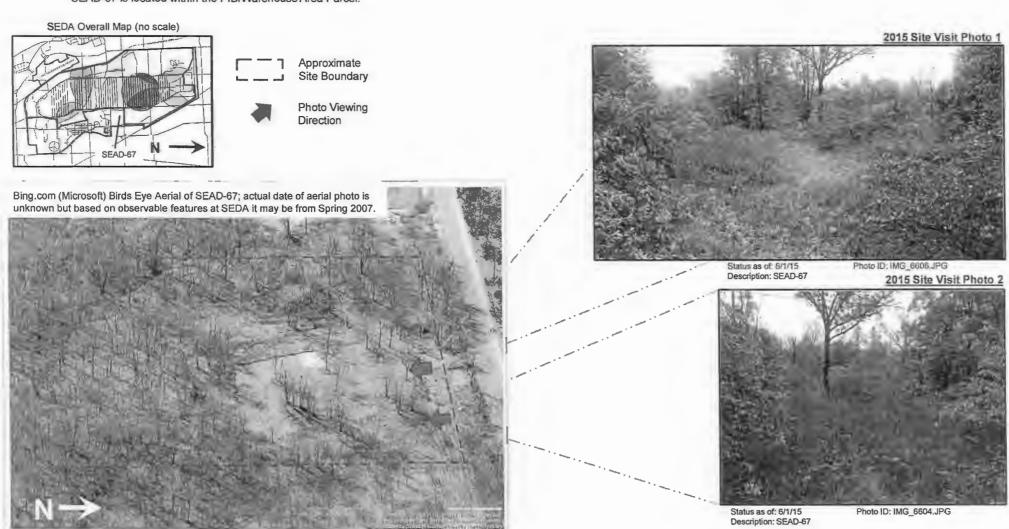
Attachment O-1 Five Year Review - Site Visit Photo Log SEAD-67 Dump Site East of Sewage Treatment Plant No. 4

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

LOCATION: SEAD-67, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEAD-67 is located within the PID/Warehouse Area Parcel.



ATTACHMENT 2

Site Inspection Checklist

I. SITE IN	FORMATION	
Site name: SEAD -67	Date of inspection: June (, 2015	
Location and Region: Plane	EPA ID: NY0213820830	_
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 57	ain
Inspector: Dave Babcock, PE	Signature: DB	,
☐ Access controls ☐	Monitored natural attenuation Groundwater containment Vertical barrier walls No VIS yell evidence wellopment or going	of reart
Attachments:	D Site map attached Phe	otos by BBC
II. INTERVIEWS	(Check all that apply)	ı
2. O&M staff Name Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	Title Dat	
S. Local regulatory authorities and response ag office, police department, office of public health deeds, or other city and county offices, etc.) Fil Agency	n or environmental health, zoning offill in all that apply. Title Date	Phone no.
Agency	Title Date	Phone no.
4. Other interviews (optional) □ Report attached		

APPENDIX P

SEAD-43: BUILDING 606 OLD MISSILE PROPELLANT TEST LABORATORY, SEAD-56: BUILDING 606 HERBICIDE AND PESTICIDE STORAGE, AND SEAD-69: BUILDING 606 DISPOSAL AREA

APPENDIX P: SEAD-43 Building 606 Old Missile Propellant Test Laboratory, SEAD-56 Building 606 Herbicide and Pesticide Storage and SEAD-69 Building 606 Disposal Area

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Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEADs 43, 56, and 69 are located in the southeastern corner of the Depot on property that currently is associated with the New York State Department of Correctional Services' Five Points Correctional Facility. These areas are discussed as one AOC because SEAD-43 and SEAD-56 both represent historic uses of Building 606; SEAD-69 is a disposal area situated close to Building 606, which was previously suspected of receiving wastes from the two other AOCs.

In the 1960s, Building 606 was used as a missile propellant test laboratory; this use is designated as SEAD-43, the Old Missile Propellant Test Laboratory, which was used for quality assurance (QA) surveillance testing of military ordnance items. After 1976, Building 606 was used as a pesticide and herbicide storage and mixing facility; this historic use is designated as SEAD-56, Herbicide/Pesticide Storage. In 1989, the pesticide/herbicide storage area was upgraded when a new rinseate building was constructed to the east of Building 606, and the historic underground rinseate storage tank was replaced with a new vaulted tank that complied with the then-prevailing environmental regulations. SEAD-69 is a disposal area in an open field that is located southeast of Building 606 (Parsons, 2007a).

1.2 Initial Response

Field investigations were conducted at SEADs 43, 56, and 69 in February of 1994 as part of the "ESI for Eight Moderately Low Priority AOCs" (Parsons, 1995a), and complete analytical results for the soil and groundwater samples collected can be found in that document. Test pits revealed the presence of buried bricks, concrete blocks, construction debris, and piping. No impacted soil or obvious contamination was observed in the three test pits investigated.

1.3 Basis for Taking Action

An action was required at SEADs 43/56/69 to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

Operations performed in SEAD-43 included the operation or functional testing of explosive devices. Inhibited Red-Fuming Nitric Acid (IRFNA) was used in, and stored at and near Building 606 prior to its disposal at SEAD-13. As SEAD-56, Herbicide/Pesticide Storage, storage of pesticides and herbicides occurred at a now-demolished building formerly located west of Building 606. A historic concrete underground tank was also used for the intermittent storage of wastewater generated during the rinsing of the portable truck-mounted tank that was used for mobile spraying operations at the Depot. It is suspected that waste from the IRFNA storage and pesticide/herbicide mixing was disposed at SEAD-69. SEAD-69 measures approximately 100 ft. by 100 ft. in size, and contained various types of construction debris, including bricks and concrete blocks, visible at the surface.

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1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEADs 43, 56, and 69 there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the construction worker are less than 1.0. The risk assessment evaluated risk to receptors under the Prison land use scenario. It should be noted that the described property is being used and maintained for a correctional facility in perpetuity. Table 7-6 of the ROD (Parsons, 2007a) summarizes the calculated cancer and non-cancer risks for all receptors and exposure routes considered in the risk assessment presented in "Decision Document – Mini Risk Assessment" (Parsons, 2002a).

An ecological risk assessment was completed and no COCs were identified.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for 17 No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B and 122E" requires the establishment of ICs. The elements that composed the remedy included:

 Establishing, maintaining, and reporting on an LUC that requires the continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

The Army had previously documented and imposed LUCs within a portion of the former Depot: in the southeastern corner of the Depot where the Five Points Correctional Facility ("Prison Area") currently is located. SEAD 43/56/69 are located within land covered by the existing LUCs imposed on land within the Prison Area parcel. Within the ROD (Parsons, 2007a), the Army formalized and documented its intention to impose the existing LUCs on the AOCs located within the Prison Area parcel under CERCLA.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the SEAD PID/Warehouse Area. Addendum 2 (USACE, 2008a) expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the "Prison Area".

SEADs 43/56/69 are located within the "Prison Area" property that the Army transferred to the State of New York for use as a correction facility. This property was transferred prior to the issuance of the ROD signed on July 3, 2007 and there was no requirement for an Environmental Easement.

The "Prison Area" has an existing deed with a reversionary clause. The area consists of eight AOCs that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility. The existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives and require the State of New York to use the property for the purpose of adult incarceration. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a).

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Hazardous substances may be present at one or more of the listed historic AOCs at concentrations that do not allow for unrestricted use and unlimited exposure. However, based on the results of previous investigations, risk assessments, and/or removal actions, these AOCs do not pose or represent a risk or threat to human health and the environment, given consideration of the area's continuing restricted use as a state maximum security correctional facility.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEADs 43/56/69 recommendations in the previous FYR were implemented as intended. The LUCs continued to be implemented and were inspected on an annual basis since the previous FYR. Annual LUC inspections were not conducted; however, LTM and other activities were conducted within Seneca during 2012 and 2013. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main Five-Year Review report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

An interview of the correctional facility manager was conducted on June 13, 2016 to determine whether required LUCs imposed by the approved RODs at SEADs 43/56/69 are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No violations of the institutional or land use controls were observed; and
- Continued restricted use of the property as a state maximum security correctional facility.

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PAPT Projects Huntswille Cont W012DY-08-D-0003/TO#15 - LTM and LUCYLIC Inspections VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VILIC 5 Year Review 2015 Final View Inspection VIII 5 Year Review 2015 Final VIII 5 Year Review 2015 Final VIII 5 Year Review 2015 Final VIII 5 Year Review 2015 Final VIII 5 Year Review 2015 Final VIII 5 Year Review 2015 Final VIII 5 Year Review 2015 Final VIII 5 Year Final VIII 5 Year Final VIII 5 Year Final VIII 5 Year Final VIII 5 Year Final VIII 5 Year Fin

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Based on an interview with a representative from Five Points Correctional Facility during the FYR process, SEADs 43/56/69 continues to be used as a state maximum security correctional facility.

4.5 Institutional Controls Verification

The LUCs, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEADs 43/56/69 in the Prison Area have been completed and documented. No continuing active remediation is required for the Prison Area. Based on a review of the LUC RD Addendum 2, transfer deed, and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEADs 43/56/69 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has
 been expanded to encompass all land within the PID/Warehousing Area, Institutional, and Airfield
 Parcel of the former Depot has been implemented and is currently being maintained, monitored and
 reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically;
- existing deed provisions require the State of New York to use the property containing SEADs 43/56/69, as a correction facility for the purpose of adult incarceration. If the State chooses to stop that activity, the property reverts back to the United States of America. Should the property revert to the Federal Government, the LUC will terminate and a remedy substitution will be agreed to.

The selected remedy is still protective of public health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-43/56/69.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy at SEADs 43/56/69.

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PARTIPULATION OF D. 0002/TOWLS | LTM and LUCIL UC Inspectional U.S. Voca Pavious 2015/Final/Towls-St Approach P. SEAD 43

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEADs 43/56/69. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for the Prison Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

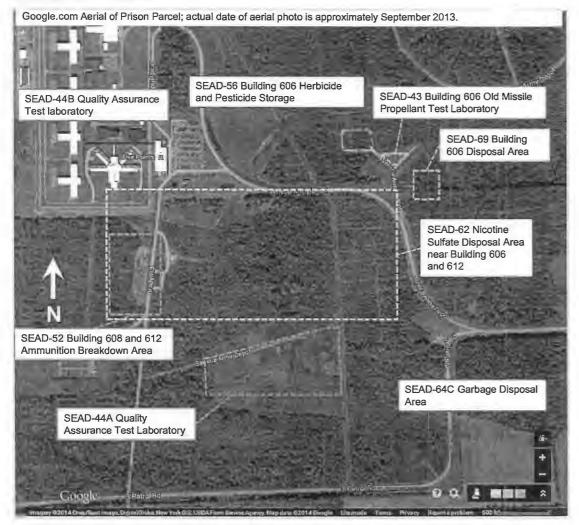
ATTACHMENT 1

Photo Log

Attachment P-1 Five Year Review - Site Visit Photo Log Prison Area Parcel

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

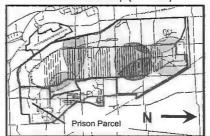


LOCATION: Prison Parcel, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Prison Parcel contains the following:

- SEAD-43 Building 606 Old Missile Propellant Test Laboratory
- SEAD-44A Quality Assurance Test Laboratory
- SEAD-44B Quality Assurance Test laboratory
- SEAD-52 Building 608 and 612 Ammunition Breakdown Area
- SEAD-56 Building 606 Herbicide and Pesticide Storage
- SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612
- SEAD-64C Garbage Disposal Area
- SEAD-69 Building 606 Disposal Area

SEDA Overall Map (no scale)



Photos within the Correctional Facility are prohibited.

ATTACHMENT 2

Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD - 43	Date of inspection: June 2, 2015		
Location and Region: Prison area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 50 toward		
Inspector: Dave Babcock, PE	Signature:		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	☐ Site map attached		
II. INTERVIEWS			
1. O&M site manager Paul Kainis Plant faalty Chgr. Gold 15 Name Title Date Interviewed at site at office by phone Phone no. Problems, suggestions; Report attached Was 2 2. O&M staff			
Interviewed □ at site □ at office □ by phone Phone no Problems, suggestions; □ Report attached			
 Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency			
ContactName Problems; suggestions; □ Report attached	Title Date Phone no.		
Agency Contact Name Problems; suggestions; □ Report attached	Title Date Phone no.		
4. Other interviews (optional) ☐ Report attached			

I. SITE INFORMATION			
Site name: SEAD -56	Date of inspection: 6 2 7015		
Location and Region: Prison area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review:	Weather/temperature: 580t Coudy		
Inspector: Dave Babcock, PE	Signature: Description		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	☐ Site map attached		
II. INTERVIEWS	(Check all that apply)		
1. O&M site manager Name Title Date Interviewed at site at office by phone Phone no. Problems, suggestions; Report attached			
2. O&M staff Name Title Date Interviewed \(\sigma \text{at site } \sigma \text{at office } \sigma \text{by phone Phone no.} \) Problems, suggestions; \(\sigma \text{ Report attached} \)			
3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency Contact Name Title Date Phone no.			
Agency	Title Date Phone no.		
 Other interviews (optional) ☐ Report attached. 			

I. SITE INFORMATION			
Site name: SEAD-69	Date of inspection: 6/2/2015		
Location and Region: Misson area	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review:	Weather/temperature: 58 Follows		
Inspector: Dave Babcock, PE	Signature: DBD of M		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	☐ Site map attached		
II. INTERVIEWS (Check all that apply) 1. O&M site manager Raw Ray S Plant Tax Lay Engl. Co (24/5) Name Title Date 1. O&M staff Name Title Date Name Title Date			
Interviewed □ at site □ at office □ by phone Phor Problems, suggestions; □ Report attached	ne no.		
	Title Date Phone no.		
Agency	Title Date Phone no.		
 Other interviews (optional) □ Report attached 			

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APPENDIX Q

SEAD-44A: QUALITY ASSURANCE TEST LABORATORY

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-44A (Quality Assurance Test Laboratory) is located in the southeastern portion of the Depot, approximately 1,000 ft. east of Brady Road and 1,500 ft. north of South Patrol Road on property that is currently associated with the New York State Department of Correctional Services' Five Points Correctional Facility. Building 416 was located at the AOC and a number of earthen berms that ran parallel to an unnamed dirt road at the AOC were present. The earthen berms were historically used for QA testing of ordnance items, including various pyrotechnics, firing devices, and 40-millimeter practice and chemical smoke grenades. The above-ground testing of landmines also reportedly occurred in SEAD-44A in a separate bermed area.

1.2 Initial Response

Site investigations at SEAD-44A included a LSP in 1993 and 1994, followed by a TCRA in 2000 and 2002.

1.3 Basis for Taking Action

An action was required at SEAD-44A to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

During the period of its use, it is suspected that the area of SEAD-44A contained high levels of metals, cyanide, and other contaminants associated with ordnance testing. A drainage swale runs east to west along the middle of the AOC; this feature drains surface water runoff to the west towards Silver Creek. Complete analytical results for the samples collected during the LSP can be found in the "Expanded Site Investigation – Eight moderately Low Priority AOCs - SEADs 5,9,12 (A and B), (43, 56, 69), 44 (A and B), 50, 58, and 59" (Parsons, 1995a).

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-64C there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the construction worker are less than 1.0. The risk assessment evaluated risk to receptors under the Prison land use scenario. It should be noted that the described property is being used and maintained for a correctional facility in perpetuity. The results of total cancer risk and total non-cancer HI are summarized in Table 7-7 of the ROD (Parsons, 2007a) and in the "Decision Document – Mini Risk Assessment" (Parsons, 2002a).

An ecological risk assessment was completed and no COCs were identified.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for 17 No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B and 122E" requires the establishment of ICs. The elements that composed the remedy included:

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Establishing, maintaining, and reporting on an LUC that requires the continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

The Army had previously documented and imposed LUCs within a portion of the former Depot: in the southeastern corner of the Depot where the Five Points Correctional Facility ("Prison Area") currently is located. SEAD-64C are located within land covered by the existing LUCs imposed on land within the Prison Area parcel. Within the ROD (Parsons, 2007a), the Army formalized and documented its intention to impose the existing LUCs on the AOCs located within the Prison Area parcel under CERCLA.

2.2 **Remedy Implementation**

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the SEAD PID/Warehouse Area. Addendum 2 (USACE, 2008a) expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the "Prison Area".

SEAD-64C is located within the "Prison Area" property that the Army transferred to the State of New York for use as a correction facility. This property was transferred prior to the issuance of the ROD signed on July 3, 2007 and there was no requirement for an Environmental Easement.

The "Prison Area" has an existing deed with a reversionary clause. The area consists of eight AOCs that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility. The existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives and require the State of New York to use the property for the purpose of adult incarceration. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a).

Hazardous substances may be present at one or more of the listed historic AOCs at concentrations that do not allow for unrestricted use and unlimited exposure. However, based on the results of previous investigations, risk assessments, and/or removal actions, these AOCs do not pose or represent a risk or threat to human health and the environment, given consideration of the area's continuing restricted use as a state maximum security correctional facility.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 **Progress on Recommendations**

In general, the SEAD-44A recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five

November 2017 Page Q-2 P:\PT\Projects\Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUC\LUC Inspections\LUC 5 Year Review 2015\Final\Text\r5\Appendix Q - SEAD-44A

year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

FIVE-YEAR REVIEW PROCESS 4.0

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data were reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-44A was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No violations of the institutional or land use controls were observed; and
- Continued restricted use of the property as a state maximum security correctional facility.

The selected remedy is still protective of human health and the environment.

4.4 **Interviews**

Based on an interview with a representative from Five Points Correctional Facility during the FYR process, SEAD-64C continues to be used as a state maximum security correctional facility

4.5 **Institutional Controls Verification**

The LUCs, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-44A in the Prison Area have been completed and documented. No continuing active remediation is required for the Prison Area. Based on a review of the LUC RD Addendum 2, transfer deed, and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-44A is currently protective of human health and the environment

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because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has been expanded to encompass all land within the PID/Warehousing Area, Institutional, and Airfield Parcel of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically;
- existing deed provisions require the State of New York to use the property containing SEADs 43/56/69, 44A, 44B, 52, 62, and 64C as a correction facility for the purpose of adult incarceration. If the State chooses to stop that activity, the property reverts back to the United States of America. Should the property revert to the Federal Government, the LUC will terminate and a remedy substitution will be agreed to.

The selected remedy is still protective of public health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-64C.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy at SEAD-44A.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-44A comprising the area known as the Prison Area. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for the Prison Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

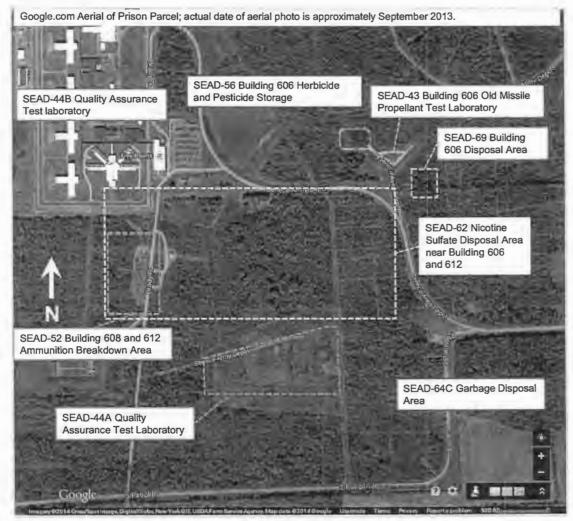
ATTACHMENT 1

Photo Log

Attachment Q-1 Five Year Review - Site Visit Photo Log Prison Area Parcel

PROJECT: Seneca Army Depot LUC Inspection

PROJECT#: 748662

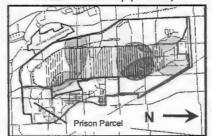


LOCATION: Prison Parcel, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Prison Parcel contains the following:

- SEAD-43 Building 606 Old Missile Propellant Test Laboratory
- SEAD-44A Quality Assurance Test Laboratory
- SEAD-44B Quality Assurance Test laboratory
- SEAD-52 Building 608 and 612 Ammunition Breakdown Area
- SEAD-56 Building 606 Herbicide and Pesticide Storage
- SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612
- SEAD-64C Garbage Disposal Area
- SEAD-69 Building 606 Disposal Area

SEDA Overall Map (no scale)



Photos within the Correctional Facility are prohibited.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD - 44A and Co4C	Date of inspection: JuneZ, 2015			
Location and Region: Prism area	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Set Chouly			
Inspector: Dave Babcock, PE	Signature:			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:	☐ Site map attached			
II. INTERVIEWS	(Check all that apply)			
1. O&M site manager Sul Kainis Hant taaling Lagr Galis Name Title Date Interviewed at site at office by phone Phone no. Problems, suggestions; Report attached Work 2. O&M staff Title Date Interviewed at site at office by phone Phone no. Problems, suggestions; Report attached				
office, police department, office of public health deeds, or other city and county offices, etc.) Fill Agency Contact Name Problems; suggestions; □ Report attached Agency	Title Date Phone no.			
ContactName Problems; suggestions; □ Report attached	Title Date Phone no.			
4. Other interviews (optional) □ Report attached				

APPENDIX R

SEAD-44B: QUALITY ASSURANCE TEST LADORATORY

APPENDIX R: SEAD-44B Quality Assurance Test Laboratory TABLE OF CONTENTS

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Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-44B (Quality Assurance Test Laboratory) runs along the west side of Brady Road and occupies an area that is approximately 350 ft. by 200 ft. on property that is currently associated with the New York State Department of Correctional Services' Five Points Correctional Facility. Two buildings were originally associated with SEAD-44B. The buildings were part of a QA test area for pyrotechnics, chemical smoke grenades, and other fire devices.

1.2 Initial Response

The investigative work at SEAD-44B included an ESI in 1993 and 1994. A summary of the surface soil, groundwater, surface water, and sediment data from the ESI are presented in Tables 6-17 to 6-20 of the ROD (Parsons, 2007a), respectively. Complete soil and groundwater analytical results for the samples collected can be found in "Decision Document – Mini Risk Assessment SEAD 9, 27, 28, 32, 33, 34, 43, 44A, 44B, 52, 56, 58, 62, 64A, 64B, 64C, 64D, 66, 68, 69, 70, and 120B," Final (Parsons, 2002a).

1.3 Basis for Taking Action

An action was required at SEAD-44B to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

When SEAD-44B was designated as a AOC in the FFA, the Army indicated that the site might contain high levels of metals and possible UXO debris. Subsequent inspections of the AOC by the Army as part of the DoDs BRAC Ordnance and Explosives Archive Search Report indicate that ordnance was not found at SEAD-44B or in the vicinity of the two berms that were observed near the buildings (Parsons, 2007a). All of the samples were analyzed for TCL VOCs, SVOCs, pesticide/PCBs, TAL metals, and cyanide according to NYSDEC CLP SOW, and explosives by USEPA Method 353.2.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-64C there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the construction worker are less than 1.0. The risk assessment evaluated risk to receptors under the Prison land use scenario. It should be noted that the described property is being used and maintained for a correctional facility in perpetuity. Table 7-8 in the ROD (Parsons, 2007a) summarizes the calculated cancer and non-cancer risks for all receptors and exposure routes considered in the risk assessment presentation "Decision Document – Mini Risk Assessment" (Parsons, 2002a).

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for 17 No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B and 122E)" requires the establishment of ICs. The elements that composed the remedy included:

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 Establishing, maintaining, and reporting on a LUC that requires the continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

The Army had previously documented and imposed LUCs within a portion of the former Depot: in the southeastern corner of the Depot where the Five Points Correctional Facility ("Prison Area") currently is located. SEAD-64C are located within land covered by the existing LUCs imposed on land within the Prison Area parcel. Within the ROD (Parsons, 2007a), the Army formalized and documented its intention to impose the existing LUCs on the AOCs located within the Prison Area parcel under CERCLA.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the SEAD PID/Warehouse Area. Addendum 2 (USACE, 2008a) expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the "Prison Area".

SEAD-64C is located within the "Prison Area" property that the Army transferred to the State of New York for use as a correction facility. This property was transferred prior to the issuance of the ROD signed on July 3, 2007 and there was no requirement for an Environmental Easement.

The "Prison Area" has an existing deed with a reversionary clause. The area consists of eight AOCs that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility. The existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives and require the State of New York to use the property for the purpose of adult incarceration. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a).

Hazardous substances may be present at one or more of the listed historic AOCs at concentrations that do not allow for unrestricted use and unlimited exposure. However, based on the results of previous investigations, risk assessments, and/or removal actions, these AOCs do not pose or represent a risk or threat to human health and the environment, given consideration of the area's continuing restricted use as a state maximum security correctional facility.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-44B recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five

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P:\PIT\Projects\Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUC\LUC Inspections\LUC 5 Year Review 2015\Final\Text\r5\Appendix R - SEAD-44B

year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-44B was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No violations of the institutional or land use controls were observed; and
- Continued restricted use of the property as a state maximum security correctional facility.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Based on an interview with a representative from Five Points Correctional Facility during the FYR process, SEAD-44B continues to be used as a state maximum security correctional facility

4.5 Institutional Controls Verification

The LUCs, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-44B in the Prison Area have been completed and documented. No continuing active remediation is required for the Prison Area. Based on a review of the LUC RD Addendum 2, transfer deed, and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-44B is currently protective of human health and the environment

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because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has been expanded to encompass all land within the PID/Warehousing Area, Institutional, and Airfield Parcel of the former Depot has been implemented and is currently being maintained, monitored and reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and is currently being maintained, monitored, and reported upon periodically;
- existing deed provisions require the State of New York to use the property containing SEADs 43/56/69, 44A, 44B, 52, 62, and 64C as a correction facility for the purpose of adult incarceration. If the State chooses to stop that activity, the property reverts back to the United States of America. Should the property revert to the Federal Government, the LUC will terminate and a remedy substitution will be agreed to.

The selected remedy is still protective of public health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-44B.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy at SEAD-44B.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-44B. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 **Protectiveness Statement**

The remedy implemented for the Prison Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

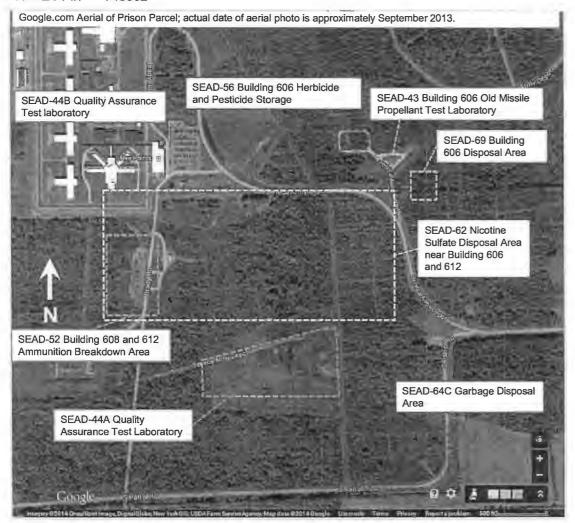
ATTACHMENT 1

Photo Log

Attachment R-1 Five Year Review - Site Visit Photo Log Prison Area Parcel

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

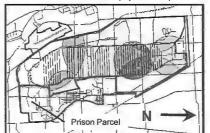


LOCATION: Prison Parcel, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Prison Parcel contains the following:

- SEAD-43 Building 606 Old Missile Propellant Test Laboratory
- SEAD-44A Quality Assurance Test Laboratory
- SEAD-44B Quality Assurance Test laboratory
- SEAD-52 Building 608 and 612 Ammunition Breakdown Area
- SEAD-56 Building 606 Herbicide and Pesticide Storage
- SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612
- SEAD-64C Garbage Disposal Area
- SEAD-69 Building 606 Disposal Area

SEDA Overall Map (no scale)



Photos within the Correctional Facility are prohibited.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD -44B	Date of inspection: June 2, 2015			
Location and Region: Prisa and	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Gloydy			
Inspector: Dave Babcock, PE	Signature:			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:				
II. INTERVIEWS (Check all that apply)				
1. O&M site manager Paul Rayus Plant Excelling Plant Excelling Date Name Title Date Interviewed at site at office by phone Phone no. Problems, suggestions; Report attached				
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date			
3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency Contact Name Title Date Phone no. Problems; suggestions; Report attached				
Agency	Title Date Phone no.			
4. Other interviews (optional) ☐ Report attached				

APPENDIX S SEAD-52: BUILDING 608 AND 612 AMMUNITION BREAKDOWN AREA

APPENDIX S: SEAD-52 Building 608 and 612 Ammunition Breakdown Area TABLE OF CONTENTS

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2.3	System Operations/Operation and Maintenance	.S-2
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3.2	Progress on Recommendations	.S-3
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4.3	Site Inspection	.S-3
4.4	Interviews	.S-3
4.5	Institutional Controls Verification	.S-3
5.0	TECHNICAL ASSESSMENT	.S-4
5.1	Question A: Is the remedy functioning as intended by the decision documents?	.S-4
5.2 actio	Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remon objectives used at the time of the remedy still valid?	
5.3 prot	Question C: Has any other information come to light that could call into question ectiveness of the remedy?	
5.4	Issues, Recommendations and Follow-Up Actions	. S-5
5.5	Protectiveness Statement	S-5

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-52 (Building 608 and 612 Ammunition Breakdown Area) is located in the southeastern portion of SEDA on land currently occupied by the Five Points Correctional Facility. The area is characterized by developed and undeveloped land.

SEAD-52 was active from the mid-1950s to the late 1990s. The area consists of four buildings: Buildings 608, 610, 611, and 612. Building 608 was previously used for the storage of ammunition magazines; Building 610 was used for ammunition powder collection; Building 611 was used for storage of equipment, paints, and solvents; and Building 612 was used for the breakdown and maintenance of ammunition. None of these buildings currently are active or used for storage of materials.

1.2 Initial Response

The field investigation at SEAD-52 included a LSP that focused on soil sampling that was performed in 1993. Complete soil and groundwater analytical results from the LSP investigations are presented in "Decision Document – Mini Risk Assessment SEAD 9, 27, 28, 32, 33, 34, 43, 44A, 44B, 52, 56, 58, 62, 64A, 64B, 64C, 64D, 66, 68, 69, 70, and 120B," Final (Parsons, 2002a).

1.3 Basis for Taking Action

An action was required at SEAD-52 to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

The LSP was performed in 1993 to evaluate the presence of explosives in the soil at SEAD-52 (Parsons, 2007a). The results of the investigation indicated that three explosive compounds were detected in one or more of the collected soil samples.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-52 there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer (HI for all receptors except for the construction worker are less than 1.0. The risk assessment evaluated risk to receptors under the Prison land use scenario. It should be noted that the described property is being used and maintained for a correctional facility in perpetuity. A summary of the risk assessment results is presented in Table 7-10 of the ROD (Parsons, 2007a), and a full discussion is presented in the "Decision Document – Mini Risk Assessment" (Parsons, 2002a).

An ecological risk assessment were completed and no COCs were identified. No remedial actions were undertaken (Parsons, 2007a).

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2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for 17 No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B and 122E" requires the establishment of ICs. The elements that composed the remedy included:

 Establishing, maintaining, and reporting on an LUC that requires the continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

The Army had previously documented and imposed LUCs within a portion of the former Depot: in the southeastern corner of the Depot where the Five Points Correctional Facility ("Prison Area") currently is located. SEAD-52 are located within land covered by the existing LUCs imposed on land within the Prison Area parcel. Within the ROD (Parsons, 2007a), the Army formalized and documented its intention to impose the existing LUCs on the AOCs located within the Prison Area parcel under CERCLA.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the SEAD PID/Warehousing Area. Addendum 2 (USACE, 2008a) expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the "Prison Area".

SEAD-52 is located within the "Prison Area" property that the Army transferred to the State of New York for use as a correction facility. This property was transferred prior to the issuance of the ROD signed on July 3, 2007 and there was no requirement for an Environmental Easement.

The "Prison Area" has an existing deed with a reversionary clause. The area consists of eight AOCs that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility. The existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives and require the State of New York to use the property for the purpose of adult incarceration. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a).

Hazardous substances may be present at one or more of the listed historic AOCs at concentrations that do not allow for unrestricted use and unlimited exposure. However, based on the results of previous investigations, risk assessments, and/or removal actions, these AOCs do not pose or represent a risk or threat to human health and the environment, given consideration of the area's continuing restricted use as a state maximum security correctional facility.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

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3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-52 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 15.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-52 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No violations of the institutional or land use controls were observed; and
- Continued restricted use of the property as a state maximum security correctional facility.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Based on an interview with a representative from Five Points Correctional Facility during the FYR process, SEAD-52 continues to be used as a state maximum security correctional facility

4.5 Institutional Controls Verification

The LUCs, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

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5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-52 in the Prison Area have been completed and documented. No continuing active remediation is required for the Prison Area. Based on a review of the LUC RD Addendum 2, transfer deed, and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-52 currently is protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has
 been expanded to encompass all land within the PID/Warehousing Area, Institutional, and Airfield
 Parcel of the former Depot has been implemented and is currently being maintained, monitored and
 reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID Area has been implemented and is currently being maintained, monitored, and reported upon periodically;
- existing deed provisions require the State of New York to use the property containing SEADs 43/56/69, 44A, 44B, 52, 62, and 64C as a correction facility for the purpose of adult incarceration. If the State chooses to stop that activity, the property reverts back to the United States of America. Should the property revert to the Federal Government, the LUC will terminate and a remedy substitution will be agreed to.

The selected remedy is still protective of public health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-64C.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy at SEAD-52.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-52 comprising the area known as the Prison Area. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

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PAPIT Projects Hunswille Cont W012DV-08-D-0003/TO#15 - LTM and LUCY LIC Inspections LUC 5 Year Review 2015/Final/Text/r5/Appendix S - SEAD-52

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for the Prison Area is protective of the environment and protects human health. The remedy continues to minimize explosive safety hazards. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment S-1 Five Year Review - Site Visit Photo Log Prison Area Parcel

PROJECT: Seneca Army Depot LUC Inspection
PROJECT #: 748662

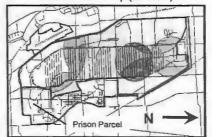
Google.com Aerial of Prison Parcel; actual date of aerial photo is approximately September 2013. SEAD-56 Building 606 Herbicide SEAD-43 Building 606 Old Missile and Pesticide Storage SEAD-44B Quality Assurance Propellant Test Laboratory Test laboratory SEAD-69 Building 606 Disposal Area SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612 SEAD-52 Building 608 and 612 Ammunition Breakdown Area SEAD-64C Garbage Disposal SEAD-44A Quality Assurance Test Laboratory

LOCATION: Prison Parcel, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Prison Parcel contains the following:

- SEAD-43 Building 606 Old Missile Propellant Test Laboratory
- SEAD-44A Quality Assurance Test Laboratory
- SEAD-44B Quality Assurance Test laboratory
- SEAD-52 Building 608 and 612 Ammunition Breakdown Area
- SEAD-56 Building 606 Herbicide and Pesticide Storage
- SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612
- SEAD-64C Garbage Disposal Area
- SEAD-69 Building 606 Disposal Area

SEDA Overall Map (no scale)



Photos within the Correctional Facility are prohibited.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SPADS-602 and 52	Date of inspection: 6/2/2015			
Location and Region: Prison and	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review:	Weather/temperature: Cloudy 58 F			
Inspector: Dave Babcock, PE	Signature: Design			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:				
II. INTERVIEWS 1. O&M site manager Paul RainlS	(Check all that apply)			
1. O&M site manager Name Title Date Interviewed at site at office by phone Phone no. Problems, suggestions; Report attached 2. O&M staff Name Title Date				
Interviewed □ at site □ at office □ by phone Phone no Problems, suggestions; □ Report attached				
Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency Contact				
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
Agency				
ContactName Problems; suggestions; □ Report attached	Title Date Phone no.			
 Other interviews (optional) ☐ Report attached. 				

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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APPENDIX T

SEAD-62: NICOTINE SULFATE DISPOSAL AREA NEAR BUILDING 606 AND 612

APPENDIX T: SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612

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AREA SPECIFIC BACKGROUND INFORMATION 1.0

1.1 **History of Contamination**

The Nicotine Sulfate Disposal Area (SEAD-62) is located in the southeastern portion of SEDA. It measures approximately one-half mile by one-quarter mile in size and is characterized by mostly undeveloped land with the exception of bunkers and buildings along the western perimeter.

1.2 **Initial Response**

The field investigation at SEAD-62 included an ESI that was performed in 1994. Complete soil and groundwater analytical results from the ESI are presented in "Decision Document - Mini Risk Assessment SEAD 9, 27, 28, 32, 33, 34, 43, 44A, 44B, 52, 56, 58, 62, 64A, 64B, 64C, 64D, 66, 68, 69, 70, and 120B," Final (Parsons, 2002a).

1.3 **Basis for Taking Action**

An action was required at SEAD-62 to ensure land use remains protective of site users.

Contaminants of Concern

Colloquial evidence suggests that two drums containing nicotine sulfate were disposed of in the area surrounding Buildings 606 and 612 (Parsons, 2002a). Summaries of the soil and groundwater results are presented in Table 6-22 and 6-23 of the ROD (Parsons, 2007a), respectively.

Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-62 there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the construction worker are less than 1.0. The risk assessment evaluated risk to receptors under the Prison land use scenario. It should be noted that the described property is being used and maintained for a correctional facility in perpetuity. A summary of the risk assessment results is presented in Table 7-10 of the ROD (Parsons, 2007a), and a full discussion is presented in the "Decision Document – Mini Risk Assessment" (Parsons, 2002a).

An ecological risk assessments were completed and no COCs were identified. No remedial actions were undertaken (Parsons, 2007a).

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for 17 No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B and 122E" requires the establishment of ICs. The elements that composed the remedy included:

Establishing, maintaining, and reporting on an LUC that requires the continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

The Army had previously documented and imposed LUCs within a portion of the former Depot: in the southeastern corner of the Depot where the Five Points Correctional Facility ("Prison Area") currently is

Page T-1 November 2017 P:\PIT\Projects\Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUC\LUC Inspections\LUC 5 Year Review 2015\Final\Tex\\r5\Appendix T - SEAD-62

located. SEAD-62 are located within land covered by the existing LUCs imposed on land within the Prison Area parcel. Within the ROD (Parsons, 2007a), the Army formalized and documented its intention to impose the existing LUCs on the AOCs located within the Prison Area parcel under CERCLA.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the SEAD PID/Warehouse Area. Addendum 2 (USACE, 2008a) expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the "Prison Area".

SEAD-62 is located within the "Prison Area" property that the Army transferred to the State of New York for use as a correction facility. This property was transferred prior to the issuance of the ROD signed on July 3, 2007 and there was no requirement for an Environmental Easement.

The "Prison Area" has an existing deed with a reversionary clause. The area consists of eight AOCs that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility. The existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives and require the State of New York to use the property for the purpose of adult incarceration. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a).

Hazardous substances may be present at one or more of the listed historic AOCs at concentrations that do not allow for unlimited use and unrestricted exposure. However, based on the results of previous investigations, risk assessments, and/or removal actions, these AOCs do not pose or represent a risk or threat to human health and the environment, given consideration of the area's continuing restricted use as a state maximum security correctional facility.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

• Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-62 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during

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which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended..

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-62 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No violations of the institutional or land use controls were observed; and
- Continued restricted use of the property as a state maximum security correctional facility.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Based on an interview with a representative from Five Points Correctional Facility during the FYR process, SEAD-62 continues to be used as a state maximum security correctional facility

4.5 Institutional Controls Verification

The LUCs, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-62 in the Prison Area have been completed and documented. No continuing active remediation is required for the Prison Area. Based on a review of the LUC RD Addendum 2 transfer deed, and the FYR site visit conducted between June 1 and 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-62 currently is protective of human health and the environment because:

a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has
been expanded to encompass all land within the PID/Warehousing, Institutional, and Airfield
Parcel of the former Depot has been implemented and currently is being maintained, monitored and

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reported upon periodically;

- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and currently is being maintained, monitored, and reported upon periodically;
- existing deed provisions require the State of New York to use the property containing SEADs 43/56/69, 44A, 44B, 52, 62, and 64C as a correction facility for the purpose of adult incarceration. If the State chooses to stop that activity, the property reverts back to the United States of America. Should the property revert to the Federal Government, the LUC will terminate and a remedy substitution will be agreed to.

The selected remedy is still protective of public health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-62.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy at SEAD-62.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for the eight sites (SEADs 43/56/69, 44A, 44B, 52, 62, and 64C) comprising the area known as the Prison Area. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for the Prison Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

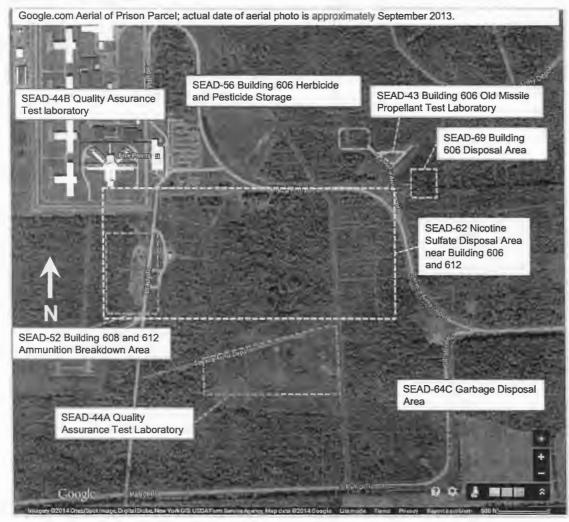
ATTACHMENT 1

Photo Log

Attachment T-1 Five Year Review - Site Visit Photo Log Prison Area Parcel

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662

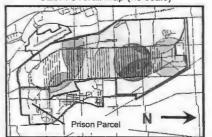


LOCATION: Prison Parcel, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Prison Parcel contains the following:

- SEAD-43 Building 606 Old Missile Propellant Test Laboratory
- SEAD-44A Quality Assurance Test Laboratory
- SEAD-44B Quality Assurance Test laboratory
- SEAD-52 Building 608 and 612 Ammunition Breakdown Area
- SEAD-56 Building 606 Herbicide and Pesticide Storage
- SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612
- SEAD-64C Garbage Disposal Area
- SEAD-69 Building 606 Disposal Area

SEDA Overall Map (no scale)



Photos within the Correctional Facility are prohibited.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SPAD-62 and 52	Date of inspection: 6/2/2015			
Location and Region: Prison and	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review:	Weather/temperature: Cloudy 58 F			
Inspector: Dave Babcock, PE	Signature: Description			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:	☐ Site map attached			
II. INTERVIEWS (Check all that apply)				
1. O&M site manager Paul Raints Plant Faculty Lagr. Name Title Date Interviewed □ at site □ at office □ by phone Phone no. Problems, suggestions; □ Report attached				
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached				
3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency				
 Other interviews (optional) □ Report attached. 				

APPENDIX U SEAD 64C GARBAGE DISPOSAL AREA

APPENDIX U: SEAD-64 Garbage Disposal Area

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5.3 prote	Question C: Has any other information come to light that could call into question tectiveness of the remedy?	
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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The location of the rumored Garbage Disposal Area at SEAD-64C is near the intersection of East Patrol Road and South Patrol Road in the southeastern corner of SEDA. This former AOC is located within the bounds of the New York State Department of Correctional Service's Five Points Correctional Facility.

1.2 Initial Response

The field investigation at SEAD-64C included an ESI that was performed in 1994. Complete analytical results from the ESI are presented in "Decision Document – Mini Risk Assessment SEAD 9, 27, 28, 32, 33, 34, 43, 44A, 44B, 52, 56, 58, 62, 64A, 64B, 64C, 64D, 66, 68, 69, 70, and 120B," Final (Parsons, 2002a). Surface soil samples, subsurface soil samples, and groundwater samples were collected at SEAD-64C and submitted for chemical analysis. All of the samples were analyzed for TCL VOCs, SVOCs, pesticides/PCBs, TAL metals, and cyanide according to the NYSDEC CLP SOW.

1.3 Basis for Taking Action

An action was required at SEAD-64C to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

SEAD-64C is the location of a proposed SEAD landfill. An Army Pollution Abatement report concluded that the proposed site could be used for a sanitary landfill; however, no available information indicates that a formal landfill was established on-site. Information presented in the SMWU classification report suggests limited dumping may have occurred at the site and that transmission power lines may be buried throughout the site; however, the Army notified the NYSDEC that the area designated at SEAD-64C was misidentified as a historic landfill site and no waste was ever identified during the Army's investigations (Parsons, 2002a; 2007a) Summaries of the soil and groundwater results obtained during the ESI are presented in Table 6-28 and 6-29 of the ROD (Parsons, 2007a), respectively.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-64C there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors except for the construction worker are less than 1.0. The risk assessment evaluated risk to receptors under the Prison land use scenario. It should be noted that the described property is being used and maintained for a correctional facility in perpetuity. A summary of the risk assessment results is presented in Table 7-12 of the ROD (Parsons, 2007a), and a full discussion is included in the "Decision Document – Mini Risk Assessment" (Parsons, 2002a).

An ecological risk assessment was completed and no COCs were identified.

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2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for 17 No Action/No Further Action SWMUs Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B and 122E" requires the establishment of ICs. The elements that composed the remedy included:

 Establishing, maintaining, and reporting on an LUC that requires the continued restricted use of the property as a state maximum security correctional facility (Parsons, 2007a).

The Army had previously documented and imposed LUCs within a portion of the former Depot: in the southeastern corner of the Depot where the Five Points Correctional Facility ("Prison Area") currently is located. SEAD-64C are located within land covered by the existing LUCs imposed on land within the Prison Area parcel. Within the ROD (Parsons, 2007a), the Army formalized and documented its intention to impose the existing LUCs on the AOCs located within the Prison Area parcel under CERCLA.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") (USACE, 2006) implemented land use controls for the SEAD PID/Warehouse Area. Addendum 2 (USACE, 2008a) expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the "Prison Area".

SEAD-64C is located within the "Prison Area" property that the Army transferred to the State of New York for use as a correction facility. This property was transferred prior to the issuance of the ROD signed on July 3, 2007 and there was no requirement for an Environmental Easement.

The "Prison Area" has an existing deed with a reversionary clause. The area consists of eight AOCs that were transferred in September 2000 under a public benefit conveyance that conveyed the land in the southeastern part of the former Depot to the people of the State of New York for the construction of the Five Points Correctional Facility. The existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives and require the State of New York to use the property for the purpose of adult incarceration. Pursuant to the terms of the deed, the prison use restriction remains in effect for these AOCs in perpetuity, or the property legally reverts to the United States (Parsons, 2007a).

Hazardous substances may be present at one or more of the listed historic AOCs at concentrations that do not allow for UU/UE. However, based on the results of previous investigations, risk assessments, and/or removal actions, these AOCs do not pose or represent a risk or threat to human health and the environment, given consideration of the area's continuing restricted use as a state maximum security correctional facility.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

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Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 **Progress on Recommendations**

In general, the SEAD-64C recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data were reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-64C was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

- No violations of the institutional or land use controls were observed; and
- Continued restricted use of the property as a state maximum security correctional facility.

The selected remedy is still protective of human health and the environment.

4.4 **Interviews**

Based on an interview with a representative from Five Points Correctional Facility during the FYR process, SEAD-64C continues to be used as a state maximum security correctional facility

4.5 Institutional Controls Verification

The LUCs, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

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5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-64C in the Prison Area have been completed and documented. No continuing active remediation is required for the Prison Area. Based on a review of the LUC RD Addendum 2 transfer deed, and the FYR site visit conducted between June 1 and 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-64C currently is protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has
 been expanded to encompass all land within the PID/Warehousing (Area, Institutional, and Airfield
 Parcel of the former Depot has been implemented and currently is being maintained, monitored and
 reported upon periodically;
- a second LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at the three site, and which also has been expanded to include all land within the PID/Warehousing Area has been implemented and currently is being maintained, monitored, and reported upon periodically;
- existing deed provisions require the State of New York to use the property containing SEADs 43/56/69, 44A, 44B, 52, 62, and 64C as a correction facility for the purpose of adult incarceration. If the State chooses to stop that activity, the property reverts back to the United States of America. Should the property revert to the Federal Government, the LUC will terminate and a remedy substitution will be agreed to.

The selected remedy is still protective of public health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-64C.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy at SEAD-64C.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-64C. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

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5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 Protectiveness Statement

The remedy implemented for the Prison Area is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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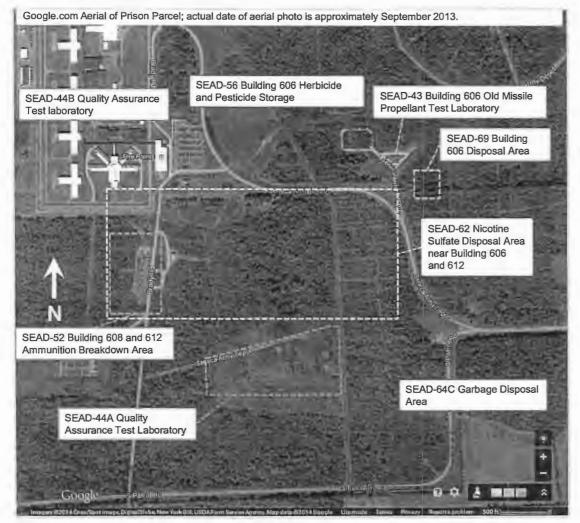
ATTACHMENT 1

Photo Log

Attachment U-1 Five Year Review - Site Visit Photo Log Prison Area Parcel

PROJECT: Seneca Army Depot LUC Inspection

PROJECT#: 748662

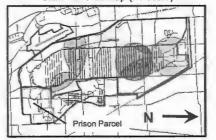


LOCATION: Prison Parcel, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Prison Parcel contains the following:

- SEAD-43 Building 606 Old Missile Propellant Test Laboratory
- SEAD-44A Quality Assurance Test Laboratory
- SEAD-44B Quality Assurance Test laboratory
- SEAD-52 Building 608 and 612 Ammunition Breakdown Area
- SEAD-56 Building 606 Herbicide and Pesticide Storage
- SEAD-62 Nicotine Sulfate Disposal Area near Building 606 and 612
- SEAD-64C Garbage Disposal Area
- SEAD-69 Building 606 Disposal Area

SEDA Overall Map (no scale)



Photos within the Correctional Facility are prohibited.

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD - 44A and 64C	Date of inspection: JuneZ, 2015			
Location and Region: Prison area	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 584			
Inspector: Dave Babcock, PE	Signature:			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:				
II. INTERVIEWS	(Check all that apply)			
1. O&M site manager				
Problems, suggestions; Report attached	ie iio,			
 Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency				
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
Agency				
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
 Other interviews (optional) □ Report attached 				

APPENDIX V SEAD-13 - INHIBITED RED FUMING NITRIC ACID (IRFNA

APPENDIX V - SEAD-13 Inhibited Red Fuming Nitric Acid (IRFNA) **Disposal Site**

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Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-13 is located in the northeast portion of the former Depot and includes two historic disposal areas, SEAD-13-East and SEAD-13-West, which are located on the eastern and western sides of the Duck Pond's southern end, respectively. Historically, SEAD-13 was used during the early 1960s to dispose of quantities of unserviceable Inhibited Red-Fuming Nitric Acid (IRFNA), an oxidizer used in missile liquid propellant systems. SEAD-13 East contains disposal pits at the surface while the SEAD-13-West area exhibited no visible evidence of disposal pits. During the operation of the IRFNA Disposal Site, the pits were utilized as a neutralization area for IRFNA. Barrels of unserviceable IRFNA were brought to the site from other locations within the Depot, and were temporarily staged on pallets near the disposal pits. Each barrel of unserviceable IRFNA was emptied and mixed with water in an ejector. The mixture was then discharged to the disposal pit through a long polyethylene hose that discharged beneath the surface of the water in the pit being used. The disposed IRFNA/water solution mixed with the limestone in the pit to facilitate the neutralization of the acid. Ten barrels were typically discharged into each pit during one day of operation.

1.2 Initial Response

Site investigations performed at SEAD-13 included an ESI in 1993 and 1994, followed by a SI performed in 2001. The ESI work included geophysical investigations, surface and subsurface soil sampling, monitoring well installations, groundwater sampling, surface water/sediment sampling, and chemical analyses. The SI included additional soil borings (with surface and subsurface soil sampling), monitoring well installations, groundwater sampling, and chemical analysis.

1.3 Basis for Taking Action

An action was required at SEAD-13 to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

Complete analytical results from both investigations are presented in "Decision Document Mini Risk Assessment SEAD-13, Inhibited Red Fuming Nitric Acid (IRFNA) Disposal Area," Final (Parsons, 2004d).

The presence of nitrate is likely related to past activities conducted in the area. The extent of the nitrate plume is defined and restricted to the area located between the historic disposal pits observed in SEAD-13-East and the Duck Pond to the west. Groundwater data from monitoring wells in the SEAD-13-West side of this AOC does not show evidence of a nitrate plume in this area of the AOC which is hydraulically downgradient of SEAD-13-East and the Duck Pond. Chemical analyses of surface water in the Duck Pond indicate that the nitrate/nitrite-nitrogen concentrations are below the levels established for drinking water sources nationally and within the State of New York.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-13 the human health cancer risks were below the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ if exposure to groundwater were to be limited. The calculated non-cancer HI for the construction worker is less than 1.0, but the greater than 1.0 for the ark

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PolPTProjects Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LHC\LIC Inspections\LIC 5 Year Review 2015\Final\Text\r5\Appendix V - SEAD-13

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worker (HI=7) and the recreational visitor (HI=3). The human health risk assessment was conducted using the 95% UCL of the mean as the EPC.

The elevated HI for both receptors was due to ingestion of groundwater, with nitrate/nitrite-nitrogen, aluminum, and manganese in groundwater was the largest contributors to risk for both receptors. When the groundwater pathway was eliminated, the total HIs for these receptors were less than 1. The cancer risk for the park worker, recreational visitor, and the construction worker were at acceptable limits.

Risks to a future resident were also calculated, which serves to evaluate receptors under the Resort/Residential land use scenario. The cancer risk for the resident (adult), 2 x 10⁻⁴ was greater than the USEPA acceptable limit of 1 x 10⁻⁴; and the cancer risk for resident (child), 1 x 10⁻⁴, was at the acceptable limit. The cancer risk was due to ingestion of groundwater. If the groundwater pathway were eliminated, the cancer risk value for future residents would be within acceptable limits.

The maximum detected concentration was used as the EPC for the ecological risk assessment. An ecological risk assessment was completed and no COCs were identified (Parsons, 2004d).

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

No action was performed at SEAD-13. A groundwater use/access restriction was selected in the ROD (Parsons, 2007a) for SEAD-13 and is intended to eliminate human contact with groundwater, thereby reducing risk to within acceptable levels for potential human receptors. There is risk associated with the use of the groundwater at SEAD-13, driven by the concentrations of nitrate, aluminum, and manganese identified. The risk from the presence of metals is associated with the suspended solids contained in the collected groundwater samples and not from the groundwater itself.

The ROD titled "Seventeen SWMU Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" signed on July 3, 2007 requires the establishment of ICs: The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits access to and use of
 groundwater at the AOCs until its quality allows for unrestricted use and unlimited exposures.
- Establishing, maintaining, monitoring, and reporting on a LUC that maintains the integrity of any current or future remedial or monitoring system.

2.2 Remedy Implementation

A LUC was implemented over the geographic area of SEAD-13 which prohibits access to or use of the groundwater. This restriction will remain in effect until the concentrations of hazardous substances in groundwater beneath the AOC have been reduced to levels that allow for UU/UE. Once groundwater cleanup standards are achieved, the groundwater use/access restriction may be eliminated, with USEPA approval (Parsons, 2007a).

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") dated December 2006 implements LUCs for the SEAD "PID/Warehouse Area". Addendum 2 expanded the LUC RD from the PID area to include sites

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that are in the area formerly known as the Conservation Area and the Airfield parcels. SEAD-13 is located on the property known as the Conservation Area Parcel and are still under the control of the Army. Addendum 2 applied the SEAD LUC RD enforcement, modification, and termination provisions to SEAD-13. The designated reuse of land within the Depot was revised in 2005 by SCIDA, and the new future land use for SEAD-13 is Residential/Resort.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-13 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See References 14.0 in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-13 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

 no prohibited facilities were present or had been constructed at the site and no access to, or use of, groundwater was evident.

The selected remedy is still protective of human health and the environment.

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4.4 Interviews

Since SEAD-13 is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-13

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the ROD for SEAD-13 have been completed and documented. No continuing active remediation is required for SEAD-13. Based on a review of the LUC RD Addendum 2 and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-13 currently is protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs, and which has
 been expanded to encompass all land within the PID/Warehousing Area, Institutional, and Airfield
 Parcel of the former Depot has been implemented and currently is being maintained, monitored and
 reported upon periodically;
- a second LUC that maintains the integrity of any current or future remedial or monitoring system.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-13.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the AOC since implementation of LUCs that would affect the protectiveness of the remedy selected for SEAD-13.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-13. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

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5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 **Protectiveness Statement**

The remedy implemented for SEAD-13 is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment V-1 5 Year Review - Site Visit Photo Log SEAD-13 Inhibited Red Furning Nitric Acid (IRFNA) Disposal Site

PROJECT: Seneca Army Depot LUC Inspection

PROJECT #: 748662 LOCATION: SEAD-13, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEAD-13 West SEAD-13 East

SEAD-13 is located within the Conservation Area Parcel.



7 Approximate Site Boundary



Photo Viewing Direction



Bing.com (Microsoft) Birds Eye Aerial of SEAD-13 East; actual date of aerial photo is unknown but based on observable features at SEDA its from Spring 2007.

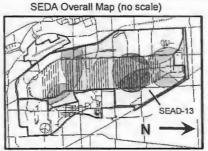


2015 Site Visit Photo 2

2015 Site Visit Photo 1



Status as of: 6/1/15 Photo ID: IMG_6609.JPG Description: SEAD-13



Status as of: 6/1/15

Photo ID: IMG_6608.JPG

Description: SEAD-13

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD 13 east	Date of inspection: June , 2015			
Location and Region: Duck and	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Light rain			
Inspector: Dave Babcock, PE	Signature: OB			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments: ☐Inspection team roster attached	□ Site map attached Photos My BEO.			
II. INTERVIEWS (Check all that apply)			
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached □ 2. O&M staff	Title Date			
3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency Contact Name Title Date Phone no. Problems; suggestions; Report attached				
Agency	Title Date Phone no.			
4. Other interviews (optional) ☐ Report attached.				

SEDA LUC Inspections Site Inspection Checklist

, I. SITE INFORMATION				
Site name: SEAD - 13 WEST	Date of inspection: June 1, 2015			
Location and Region: Duck	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Selftrain			
Inspector: Dave Babcock, PE	Signature: Distant			
Remedy Includes: (Check all that apply) Landfill cover/containment				
Attachments:	□ Site map attached Photos by BB			
H. INTERVIEWS	(Check all that apply)			
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached 2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date Title Date Title Date			
Name Problems; suggestions; □ Report attached	Title Date Phone no.			
Agency Contact Name Problems; suggestions; □ Report attached	Title Date Phone no.			
4. Other interviews (optional) □ Report attached	,			

APPENDIX W SEAD-41 - BUILDING 718 BOILER BLOWDOWN LEACHING PIT

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5.3 prote	Question C: Has any other information come to light that could call into question the ectiveness of the remedy?	
5.4	Issues, Recommendations and Follow-Up Actions	. W-4
5.5	Protectiveness Statement	W-4

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-41 is the blowdown leaching area suspected to have existed in the drainage ditch located approximately 40 ft. west of Building 718, an abandoned boiler plant located in the northern end of the Depot, on property currently occupied by the Hillside Children's Center.

1.2 Initial Response

Work performed at SEAD-41 included a LSP conducted in 1993/1994, followed by a TCRA conducted in 2000. During the 1993/1994 sampling program, petroleum hydrocarbons were detected in all of the soil samples collected from SEAD-41. The surface samples collected nearest the point where the blowdown liquids were suspected of being discharged contained the greatest concentration of petroleum hydrocarbons. The sampling program delineated the extent of petroleum-impacted soil to an area approximately 40 ft. long by 3 ft. wide. The TCRA was conducted to remove the petroleum-contaminated soils identified during the LSP, and approximately 5 cy of petroleum contaminated soils were removed.

1.3 Basis for Taking Action

An action was required at SEAD-41 to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

Prior to connecting the boiler blowdown points to the sewer in 1979-1980, blowdown was reportedly released three times a day, and the discharged liquid was allowed to flow onto the ground at the blowdown point where it either infiltrated into the ground or flowed into the nearby drainage ditch. Each boiler is reported to have discharged between 400 and 800 gallons of blowdown liquids per day. The boiler blowdown is suspected to have contained water, tannins, caustic soda (sodium hydroxide), and sodium phosphate (Parsons, 2007a).

SVOCs were found in the soil samples collected at SEAD-41, with concentrations of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and dibenzo(a,h)anthracene exceeding their NYSDEC TAGM #4046 cleanup objective level values. Table 6-8 in the ROD (Parsons, 2007a) summarizes the TCRA soil analytical results. The excavated soil was transported to another location within the Depot for use in a LTTD study at the SEDA.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-41 the human health cancer risks are within or below the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors are less than 1.0. Maximum concentrations of analytes found at the AOC were used as the EPCs for the area evaluated under the risk approach.

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2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

A ROD titled "Seventeen SWMU Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" signed on July 3, 2007 required the establishment of ICs at the site (SEAD-41). The elements that composed the remedy included:

Notification of future land owners of contaminated groundwater and requirement to meet all
applicable laws and regulations should the owner decide to access and use the groundwater.

The selected remedy was based on the results of historic groundwater sampling data that was collected during the investigation of SEAD-41, which indicated that total petroleum hydrocarbons (TPH, 690 ppb) were present in the upper aquifer of the groundwater. The LUC selected for SEAD-41 was already in place at the time the ROD was issued, and had been documented in the deed used to transfer the North End Barracks areas of the Depot. Part of the purpose of the ROD was to formalize and document the Army's intention to impose the existing LUC on the North End Barracks Area – SEAD-41 under CERCLA.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") dated December 2006 implemented land use controls for the SEAD PID/Warehousing Area. Addendum 2 expanded the LUC RD from the PID/Warehouse Area to include sites that are in the area formerly known as the North Barracks Area, and applied the SEAD LUC RD enforcement, modification, and termination provisions to SEAD-41.

SEAD-41 and the North Barracks Area was transferred to the SCIDA prior to the issuance of the ROD signed on July 3, 2007 and an Environmental Easement was not required. A deed was used to document the transfer of land to SCIDA, and the existing deed provisions ensure the property is used in a manner consistent with the above LUC Objectives.

In the deed, the Army notified SCIDA that groundwater contamination had been identified in the vicinity of the former Building 718. The reported level of TPH (690 ppb) exceeds the New York State Public Water System standards for unspecified organic contamination of 100 ppb. Under New York regulations, future owners or occupants of the area would need to confirm the quality and acceptability of the groundwater as a source of potable water before it could be used for such a purpose.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

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PAPTT Projects Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUCVLUC Inspections\LUC 5 Year Review 2015\Final\Text\v5\Appendix W - SEAD-41

3.2 **Progress on Recommendations**

In general, the SEAD-41 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data was reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-41 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

The following observations were made during the site inspection:

no prohibited facilities were present or had been constructed at the site and no access to, or use of, groundwater was evident.

The selected remedy is still protective of human health and the environment.

4.4 **Interviews**

During the site inspection, the Hillside Children's Center maintenance manager confirmed that the facility was using the public water supply.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-41 have been completed and documented. No continuing active remediation is required for SEAD-41. Based on a review of the LUC RD Addendum 2, transfer deed and the FYR site visit conducted between June 1 and June 3, 2015, the

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remedy is functioning as intended by the decision documents.

The remedy implemented at the SEAD-41 currently is protective of human health and the environment because:

a LUC that notifies future land owners of contaminated groundwater and requirement to meet all applicable laws and regulations should the owner decide to access and use the groundwater. In addition, SEAD-41 has a groundwater use deed restriction that is more stringent than the land use control.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-41.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of ICs/LUCs that would affect the protectiveness of the remedy selected for SEAD-41.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-41. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 **Protectiveness Statement**

The remedy implemented for SEAD-41 is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment W-1 Five Year Review - Site Visit Photo Log SEAD-41 Building 718 Boiler Plant Blowdown Leaching Pit

PROJECT: Seneca Army Depot LUC Inspection PROJECT #: 748662

2015 Site Visit Photo 1



Status as of: 6/1/15 Photo ID: IMG_6619.JPG Description: SEAD-41



Approximate Site Boundary



Photo Viewing Direction

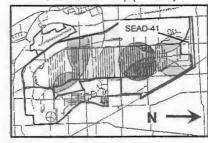
SEAD-41 is located within the Institutional /Training Area Parcel....



LOCATION: SEAD-41, Seneca Army Depot

Bing.com (Microsoft) Aerial of SEAD-41; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2010.

SEDA Overall Map (no scale)



2015 Site Visit Photo 2



Status as of: 6/1/15 Description: SEAD-41

Photo ID: IMG_6616.JPG

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION		
Site name: SEAD - 4	Date of inspection: June 2015	
Location and Region: Wiside	EPA ID: NY0213820830	
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Soft rain	
Inspector: Dave Babcock, PE	Signature: DEDWARN	
☐ Access controls ☐ ☐	Monitored natural attenuation Groundwater containment Vertical barrier walls Wo Usyalevalmee of regat May be side working of groups	
Attachments:	□ Site map attached Anoto by BO.	
II. INTERVIEWS	(Check all that apply)	
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached □ 2. O&M staff □ Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached □ Phone Problems, suggestions; □ Report attached □ Phone Problems, suggestions; □ Report attached □ Phone Problems, suggestions; □ Report attached □ Phone Phon	Title Date e no.	
	Title Date Phone no.	
Agency Contact Name Problems; suggestions; Report attached	Title Date Phone no.	
 Other interviews (optional) □ Report attached. 		

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APPENDIX X SEAD-64B - GARBAGE DISPOSAL AREA

Appendix X - SEAD-64B Garbage Disposal Area

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5.5	Protectiveness Statement	X-4

LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 **History of Contamination**

The Garbage Disposal Area at SEAD-64B is located immediately north of Ovid Road near Building 2086 in the southern end of SEDA. SEAD-64B was used for garbage disposal from 1974 to 1979, which corresponds to a period when the Depot's solid waste incinerator was not in operation. It appears that one or two truckloads of household waste were disposed at SEAD-64B based on the size of the fill area and amount of debris observed.

1.2 **Initial Response**

SEAD-64B is a historic landfill that is subject to regulation under the State of New York's Solid Waste Management Regulations (see 6 NYCRR Part 360). As a historic solid waste landfill, the site was subject to final closure in accordance with requirements of 6 NYCRR Part 360 in effect as of August 28, 1977. Once solid waste disposal ceased at SEAD-64B in the late 1970s, the Army applied a permanent soil cover over the disposed waste and allowed the area to revegetate naturally. The field investigation at SEAD-64B included an ESI performed in 1994. The former landfill continues to be covered and has an established vegetative covering. The Army requested formal closure of this historic landfill from the NYSDEC in letters dated May 24, 2005 and August 14, 2006. In a letter dated September 11, 2006, the NYSDEC agreed that SEAD-64B and SEAD-64D are closed under the New York Solid Waste Regulations.

No action subsequent to the installation of the landfill cap has been performed at SEAD-64B.

1.3 Basis for Taking Action

An action was required at SEAD-64B to ensure land use remains protective of site users. The training area classification for SEAD-64B suggests that the area will be used in a manner consistent with light industrial areas.

1.3.1 Contaminants of Concern

Complete analytical results from the ESI investigation are presented in "Decision Document – Mini Risk Assessment SEAD 9, 27, 28, 32, 33, 34, 43, 44A, 44B, 52, 56, 58, 62, 64A, 64B, 64C, 64D, 66, 68, 69, 70, and 120B," Final (Parsons, 2002a).

No COCs were identified for SEAD-64B.

Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-64B there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors are less than 1.0. The cancer and non-cancer risks for all future potential receptors under the Conservation/Recreation land use scenario and exposure routes for SEAD-64B were evaluated during the risk assessment. A summary of the risk assessment results is presented in Table 7-11 of the ROD (Parsons, 2007a), and a full discussion is included in the "Decision Document - Mini Risk Assessment" (Parsons, 2002a).

An ecological risk assessments were completed and no COCs were identified.

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2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

A ROD titled "Seventeen SWMU Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" signed on July 3, 2007 requires the establishment of ICs. The elements that composed the remedy included:

 Establishing, maintaining, monitoring, and reporting on a LUC that prohibits unauthorized excavation and maintenance of the existing soil cover

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") dated December 2006 implements LUCs for the SEAD "PID/Warehouse Area". Addendum 2 expanded the LUC RD from the PID area to include sites that are in the area formerly known as the Conservation Area and the Airfield parcels. SEAD-64B is located on the property formerly known as the Conservation Area Parcel.

An Environmental Easement for SEAD-64B was recorded prior to the transfer of SEAD-64B from the federal government and was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-64B as transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The Conversation Area parcel property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-64B recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during

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P:\PIT\Projects\Huntsville Cont W912DY-08-D-0003\TO#15 - LTM and LUC\LUC Inspections\LUC 5 Year Review 2015\Final\Text\r5\Appendix X - SEAD-64B

which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-64B was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

 no prohibited facilities were present or had been constructed at the site and no unauthorized excavations or digging were evident.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-64B is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-64B.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for SEAD-64B have been completed and documented. No continuing active remediation is required for SEAD-64B. Based on a review of the LUC RD Addendum 2, Environmental Easements, transfer deeds, and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at SEAD-64B currently is protective of human health and the environment because:

 a LUC that prevents unauthorized excavation, and preserves the maintenance of the existing soil cover.

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PAPITAPPRIORISH FOR WOLDN-08-D-0003/TO#15 - LTM and LUCYLIC Inspections\LUC 5 Year Review 2015\Final\Text\r5\Anneadix X - SEAD-64B

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The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-64B.

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-64B. On-going remedial monitoring activities include periodic evaluations of the effectiveness of the remedy. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 **Protectiveness Statement**

The remedy implemented for SEAD-64B is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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ATTACHMENT 1

Photo Log

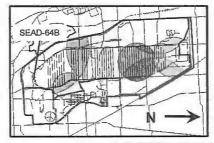
Attachment X-1 5 Year Review - Site Visit Photo Log SEAD-64B Garbage Disposal Area

PROJECT: Seneca Army Depot LUC Inspection PROJECT #: 748662

Approximate Site Boundary

4

Photo Viewing Direction



SEDA Overall Map (no scale) LOCATION: SEAD-64B, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

SEAD-64B is located within the Training Area Parcel.

Bing.com (Microsoft) Birds Eye Aerial of SEAD-64B; actual date of aerial photo is

2015 Site Visit Photo 1

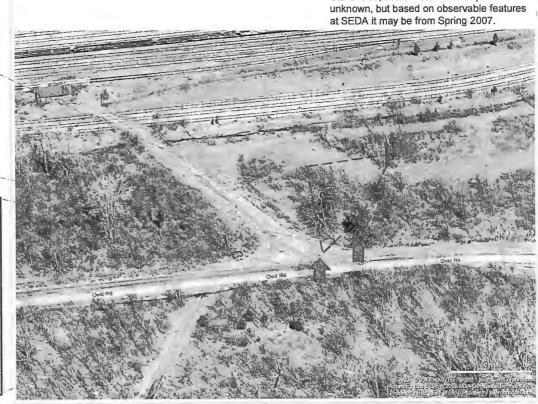


Status as of: 6/1/15 Photo ID: IM_6577.JPG Photo ID: IM_6581.JPG Description: SEAD-64B

2015 Site Visit Photo 2



Status as of: 6/1/15 Photo ID: IM_6576.JPG Description: SEAD-64B



ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD - GHB	Date of inspection: June 1, 2015			
Location and Region: Ammo area	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55° t Light rain			
Inspector: Dave Babcock, PE	Signature: Dallac			
☐ Access controls ☐ ☐ Institutional controls ☐ ☐ Groundwater pump and treatment ☐ Surface water collection and treatment	Monitored natural attenuation Groundwater containment Vertical barrier walls Vegetuwe con intend-definat Medital As are not maintain Medital endence of recort evenua			
Attachments: □Inspection team roster attached	Site map attached Photos by BBO,			
II. INTERVIEWS 1. O&M site manager	(Check all that apply)			
Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached 2. O&M staff Name Name	Title Date			
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	ne no.			
office, police department, office of public health deeds, or other city and county offices, etc.) Fil Agency Contact	encies (i.e., State and Tribal offices, emergency response to renvironmental health, zoning office, recorder of the lin all that apply.			
Name	Title Date Phone no.			
Agency Contact Name Problems; suggestions; □ Report attached	Title Date Phone no.			
4. Other interviews (optional) □ Report attached				

APPENDIX Y SEAD-64D - GARBAGE DISPOSAL AREA

APPENDIX Y: SEAD-64D

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Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-64D covers an area located between West Patrol Road and the railroad tracks located to the west along North-South Baseline Road in the southwestern portion of SEDA. Portions of SEAD-64D were used for garbage disposal from 1974 to 1979 when the SEDA solid waste incinerator was not in operation. The type of waste disposed at SEAD-64D was primarily household waste, although according to information contained in the "SWMU Classification Report, Final" (Parsons, 1994a) and conditions observed during test pitting, construction debris was also disposed of at SEAD-64D.

1.2 Initial Response

SEAD-64D is a historic solid waste management unit (historic landfill) that is subject to regulation under the State of New York's Solid Waste Management Regulations (see 6 NYCRR Part 360). The Army ceased use of this unit in the late 1970s. As a historic solid waste landfill, the site was subject to final closure in accordance with requirements of 6 NYCRR Part 360 in effect as of August 28, 1977.

Once solid waste disposal ceased at SEAD-64D in the late 1970s, the Army applied a permanent soil cover over the disposed waste and allowed the area to revegetate naturally. The former landfill continues to be covered and has an established vegetative covering. The Army requested formal closure of the historic landfill from the NYSDEC in letters dated May 24, 2005 and August 14, 2006. In a letter dated September 11, 2006, the NYSDEC agreed that SEAD-64B and SEAD-64D are closed under the New York Solid Waste Regulations.

1.3 Basis for Taking Action

An action was required at SEAD-64D to ensure land use remains protective of site users. The training area classification for SEAD-64D suggests that the area will be used in a manner consistent with light industrial areas.

1.3.1 Contaminants of Concern

The field investigation at SEAD-64D included an ESI that was performed in 1994. During the ESI, soil, and groundwater samples were collected at SEAD-64D and submitted for chemical analysis. All samples were analyzed for TCL VOCs, SVOCs, pesticides/PCBs, TAL metals, and cyanide according to the NYSDEC CLP SOW. Complete analytical results from the ESI are presented in "Decision Document – Mini Risk Assessment SEAD 9, 27, 28, 32, 33, 34, 43, 44A, 44B, 52, 56, 58, 62, 64A, 64B, 64C, 64D, 66, 68, 69, 70, and 120B," Final (Parsons, 2002a). Summaries of the soil and groundwater results were presented in Table 6-30 and 6-31 of the ROD (Parsons, 2007a), respectively.

No COCs were identified for SEAD-64D.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-64D there are no human health cancer risks above the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} , and the calculated non-cancer HI for the construction worker is less than 1.0. Table 7-13 in the ROD (Parsons, 2007a) summarizes the calculated

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cancer and non-cancer risks for all future potential receptors under the Conservation/Recreation land use scenario and exposure routes considered in the risk assessment conducted at SEAD-64D in 2001 and 2002. The HI is equal to or greater than 1 for the park worker (HI=3) and the recreational child visitor (HI=1). The elevated HI for both receptors was due solely to ingestion of groundwater, and the elevated concentrations of metals in the groundwater samples associated with observed elevated turbidity levels. If the groundwater pathway was eliminated, the non-cancer risk would be reduced to within acceptable levels.

An ecological risk assessments was completed and no COCs were identified.

2.0 REMEDIAL ACTIONS

2.1 **Remedy Selection**

A ROD titled "Seventeen SWMU Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E)" signed on July 3, 2007 requires the establishment of ICs. The elements that composed the remedy included:

- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits access to and use of groundwater at the AOCs until its quality allows for unrestricted use and unlimited exposures;
- Establishing, maintaining, monitoring, and reporting on a LUC that prohibits unauthorized excavation; and
- Maintain the integrity of any current or future remedial or monitoring system and maintain the existing soil cover

2.2 **Remedy Implementation**

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") dated December 2006 implements LUCs for the SEAD "PID/Warehouse Area". Addendum 2 expanded the LUC RD from the PID area to include sites that are in the area formerly known as the Conservation Area and the Airfield parcels, and applies the SEAD LUC RD enforcement, modification, and termination provisions to SEAD-64D. SEAD 64D is located on the property formerly known as the Conservation Area Parcel.

An Environmental Easement for SEAD-64D was recorded prior to the transfer of SEAD-64D from the federal government and was recorded in the Seneca County Clerk's office on June 10, 2011.

SEAD-64D as transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The Conversation Area parcel property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

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2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-64D recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data were reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-64D was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- no prohibited facilities were present or had been constructed at the site and no access to, or use of, groundwater was evident.
- no unauthorized excavations or evidence of digging were observed.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-64D is uninhabited and unoccupied, no interviews were conducted during the Five-Year Review process for SEAD-64D.

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4.5 **Institutional Controls Verification**

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Ouestion A: Is the remedy functioning as intended by the decision documents?

Yes, Remedial actions required by the completed ROD for SEAD-64B have been completed and documented. No continuing active remediation is required for SEAD-64B. Based on a review of the LUC RD Addendum 2 Environmental Easements, transfer deeds, and the FYR site visit conducted between June 1 and June 3, 2015, the remedy is functioning as intended by the decision documents.

The remedy implemented at SEAD-64D currently is protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater within the identified AOCs has been implemented and currently is being maintained, monitored and reported upon periodically;
- a second LUC that prevents unauthorized excavation, and preserves the maintenance of the existing soil cover.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-64D

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy for SEAD-64D.

5.3 Ouestion C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-64D. On-going remedial monitoring activities include periodic evaluations of the effectiveness of the remedy. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

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5.5 **Protectiveness Statement**

The remedy implemented for SEAD-64D is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment Y-1 5 Year Review - Site Visit Photo Log SEAD-64D Garbage Disposal Area

PROJECT: Seneca Army Depot LUC Inspection PROJECT #: 748662

Bing.com (Microsoft) Birds Eye Aerial of SEAD-64D; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2007.

LOCATION: SEAD-64D, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

> SEAD-64D is located within the Training Area Parcel.



Status as of 6/1/15 Description: SEAD-64D Photo ID: IMG 6581.JPG



Status as of: 6/1/15 Description: SEAD-64D Photo ID: IMG_6583.JPG



2015 Site Visit Photo 3

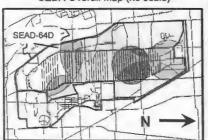
Approximate Site Boundary



Photo Viewing Direction

2015 Site Visit Photo 1

SEDA Overall Map (no scale)



Status as of: 6/1/15 Description: SEAD-64D Photo ID: IMG 6584.JPG

ATTACHMENT 2

Site Inspection Checklist

I. SITE IN	FORMATION
Site name: SEAD -640	Date of inspection: June & 2015
Location and Region: Ammo area	EPA ID: NY0213820830
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 55 Lyain
Inspector: Dave Babcock, PE	Signature:
☐ Access controls	Monitored natural attenuation Groundwater containment Vertical barrier walls wells but regulated Vertical barrier walls
Attachments: □Inspection team roster attached	☐ Site map attached Photos by BBO.
II. INTERVIEWS	(Check all that apply)
Problems, suggestions; ☐ Report attached	Title Date
Problems, suggestions; Report attached	Jie III.
	gencies (i.e., State and Tribal offices, emergency response th or environmental health, zoning office, recorder of ill in all that apply.
Name Problems; suggestions; □ Report attached	Title Date Phone no.
Agency	
Name Problems; suggestions; □ Report attached	Title Date Phone no.
4. Other interviews (optional) ☐ Report attached	d.

APPENDIX Z ASH LANDFILL OPERABLE UNIT (SEADS 3, 6, 8, 14, AND 15)

Appendix Z – Ash Landfill Operable Unit (SEADs 3, 6, 8, 14, and 15) TABLE OF CONTENTS

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The Ash Landfill site is located along the western boundary of SEDA. The site is bounded on the north by Cemetery Road, on the east by a SEDA railroad line, on the south by open grassland and brush, and on the west by the Depot's boundary. The Ash Landfill site was initially estimated to encompass an area of approximately 130 acres. This larger area was investigated to ensure that no previously unknown waste disposal areas were overlooked. Following the remedial investigation, the area of the Ash Landfill site was refocused to an area of approximately 23 acres. This area is comprised of five AOCs including: Incinerator Cooling Water Pond (SEAD-3), the Ash Landfill (SEAD-6), the Non-Combustible Fill Landfill (NCFL) (SEAD-8), the Refuse Burning Pits (SEAD-14), and the Abandoned Solid Waste Incinerator Building (SEAD-15). The Debris Piles are located near SEAD-14. The Ash Landfill (SEAD-6) also includes a groundwater plume that emanates from the northern western side of the landfill area (Parsons, 2005c).

From 1941 to 1974, household trash and depot refuse was burned in a series of Refuse Burning Pits near the Abandoned Incinerator Building (Building 2207). During approximately this same period (1941 until the late 1950s or early 1960s) the ash from the Refuse Burning Pits was buried in the Ash Landfill. The Incinerator Building was built in 1974. Between 1974 and 1979, materials intended for disposal were transported to the incinerator. The source for the refuse was domestic waste from Depot activities and family housing. Large items that could not be burned were disposed of at the NCFL. The NCFL is located southeast of the Incinerator Building (immediately south of the SEDA railroad line). The NCFL was used as a disposal site for non-combustible materials, including construction debris, from 1969 until 1977. Ash and other residues from the incinerator were temporarily disposed of in the Incinerator Cooling Water Pond immediately north of the Incinerator Building. Approximately every 18 months, when the pond filled, the fly ash and residues were removed, transported, and buried in the adjacent Ash Landfill, east of the Cooling Pond. A fire destroyed the incinerator in May 1979, and the landfill was subsequently closed. A vegetative cover, comprised of native soils and grasses, was observed over the Ash Landfill during the 1994 RI (Parsons ES, 1994c).

1.2 Initial Response

Prior to the listing of SEDA on the NPL, two removal actions were performed at the Ash Landfill. The first action was the removal of a former 1000-gallon underground storage tank (UST) that was used to store heating oil and was located on the east side of the abandoned Incinerator Building. The second, a Non-Time Critical Removal Action (NTCRA), was conducted by the Army in 1994/1995 and consisted of the excavation and thermal treatment of soil impacted with VOCs (Parsons, 2005c).

As part of a demonstration study, a 650-foot long permeable reactive iron wall (zero valent iron [ZVI]) was installed near the western property line of the Ash Landfill AOC (ETI, 2001). A pilot study was performed by Parsons and the Army from July 2005 to February 2006 to show that the use of mulch as the selected wall medium (i.e. biowalls) would effectively control migration of groundwater contaminants at the site. The components and findings of the mulch biowall pilot study, which serve as the basis of design for the biowalls is presented in the "Evaluation Report for the Mulch Biowalls at the Ash Landfill" submitted as

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an appendix of the "Draft Remedial Design Work Plan for the Ash Landfill Operable Unit" (Parsons, 2006a, b).

Since a wall material other than iron was selected, the Army conducted a review of the remedy's effectiveness one year after the walls are installed. Subsequent annual reviews were performed until the first FYR. The typical FYR schedule followed thereafter.

1.3 **Basis for Taking Action**

1.3.1 Contaminants of Concern

The primary COCs at the Ash Landfill site are VOCs, including chlorinated and aromatic compounds, SVOCs (mainly PAHs), and, to a lesser degree, metals. The COCs are believed to have been released to the environment during former activities conducted at the Ash Landfill OU. The source of the VOCs was most likely the three alleged solvent dump areas located at the "Bend in the Road" area northwest of the Ash Landfill site. The source of the VOCs that were allegedly disposed in this area is unknown.

The primary media investigated at the Ash Landfill site included soil (from soil borings and test pits), groundwater, and surface water and sediment (from Kendaia Creek and on-site wetlands and drainage swales). Based on these investigations, soil and groundwater were found to be the media that were the most significantly impacted by a release of chemicals on-site.

1.3.2 **Human Health and Ecological Risk Assessment**

The risk assessment concluded that at Ash Landfill there are no human health cancer risks above the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶, and the calculated non-cancer HI for all receptors are less than 1.0 under the current and expected receptor scenarios.

The carcinogenic risks for potential future residents using groundwater for drinking at SEDA is 1.4 x 10⁻³, and the HI is 3.2. Although risks exist for potential future residents using groundwater for drinking at SEDA, the LRA does not intend to use this land for residential purposes. The future intended use for the site has been determined by the LRA as a conservation/recreation area.

An ecological risk assessment performed based on the site soils, surface water, and sediment suggested a slightly elevated ecological risk due to the presence of heavy metals. However, the criteria for these media are not considered ARARs since none of the criteria are promulgated standards. NYSDEC and federal AWQSs, which are promulgated standards for Kendaia Creek, are considered ARARs. No exceedances of the AWQSs were observed for downstream samples from Kendaia Creek, which is classified by NYSDEC as a Class C stream.

Metal exceedances were identified for ecological guidelines and reported literature values for on-site soil, sediment, and surface water. The actual ecological risk caused by these exceedances is not readily observable. Phase I and Phase II field evaluations for the RI included fish trapping and counting, benthic macroinvertebrate sampling and counting, and small mammal species sampling and counting. The results of the Phase I data collection did not indicate stressed biological or plant communities.

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2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Record of Decision for the Ash Landfill Operable Unit" (Parsons, 2004) requires the establishment of ICs. The elements that composed the remedy included:

- Excavation and off-site disposal of debris piles and establishment and maintenance of a vegetative soil cover for the Ash Landfill and the NCFL for source control;
- Installation of three in-situ permeable reactive barrier walls, and maintenance of the proposed walls and the existing wall for migration control of the groundwater plume;
- A Contingency Plan would be developed to include one of the following options;
 - provision of an alternative water supply for potential downgradient receptors (farmhouse) or
 - air sparging of the plume in the event that groundwater conditions downgradient of the recommended remedial action described above exceed trigger values.
- LUCs to attain the RAOs; and,
- Completion of a review of the selected remedy every five-years (at minimum), in accordance with Section 121(c) of the CERCLA. If a wall material other than iron is selected, the Army would conduct a review of the remedy's effectiveness one year after the walls are installed. Subsequent annual reviews will be performed until the first FYR. The typical FYR schedule will be followed thereafter.

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") dated December 2006 implements land use controls for the SEAD PID/Warehouse Area. Addendum 3 (USACE, 2008b) expanded the LUC RD from the PID/Warehousing area to include sites that are in the area known as the Ash Landfill (SEADs-3, 6, 8, 14, and 15). The Ash Landfill is located on the property formerly known as the Conservation Area Parcel.

The RA was completed in October and November 2006 in accordance with the ROD for the Ash Landfill OU (Parsons, 2004c), the Remedial Design Work Plan (Parsons, 2006b), and the RDR (Parsons, 2006c). The RA involved the following:

- Installation of three dual biowall systems, A1/A2, B1/B2, and C1/C2, to address VOCs in groundwater that exceed NYSDEC's Class GA groundwater standards;
- Construction and establishment of a 12-inch vegetative cover over the Ash Landfill and the NCFL
 to prevent ecological receptors from coming into direct contact with the underlying soils that are
 contaminated with metals and PAHs;
- Excavation and disposal of Debris Piles A, B, and C; and
- Re-grading of the Incinerator Cooling Water Pond to promote positive drainage.

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The LUC performance objectives for SEADs 3/6/8/14/15 are to:

- Prevent access to or use of the groundwater until cleanup levels are met;
- Maintain the integrity of any current or future remedial or monitoring system such as monitoring wells and impermeable reactive barriers;
- Prohibit excavation of the soil or construction of inhabitable structures (temporary or permanent) above the area of the existing groundwater plume; and
- Maintain the vegetative soil layer over the ash fill areas and the NCFL to limit ecological contact (Parsons, 2005c).

An Environmental Easement for the Ash Landfill was recorded in the Seneca County Clerk's office on June 10, 2011.

The Ash Landfill as part of the "PID Retained Parcels" was transferred to the SCIDA with a Quitclaim Deed executed on May 27, 2011. The Ash Landfill was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehousing Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

As part of the RA at the Ash Landfill OU, post-closure operations include LTM. Groundwater monitoring is required as part of the remedial design, which was formulated to comply with the ROD. The groundwater LUCs are to continue until such time that the concentration of hazardous substances in the groundwater have been reduced to levels that allow for unlimited exposure and unrestricted use. Intrusive restrictions for those areas requiring a vegetative soil cover will continue indefinitely. These land use controls will be implemented over the area of the groundwater plume, NCFL, and the Ash Landfill, as shown on Figure 1-1 of the ROD (Parsons, 2004c).

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

Biowall process monitoring wells (MWT-26, MWT-27, MWT-28, MWT-29, and MWT-23) will be monitored on a semi-annual basis. Each year a recharge evaluation will be completed. As stated in the RDR (Parsons, 2006b), if a recharge is conducted, MWT-26, MWT-27, and MWT-29 would be excluded from the LTM program, as detailed in Figure 12 (Parsons, 2011e). MWT-28 and MWT-23 will continue to be monitored as part of the performance monitoring wells to supplement

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data that will be used to determine whether additional biowall recharge is required. The recharge evaluation(s) conducted each year after the first biowall recharge would review the chemical and geochemical data at MWT-28 and MWT-23, and determine if the contaminant increase is a result of poor biowall performance or due to other issues such as seasonal variations in groundwater levels, unusual precipitation events, or desorption and back diffusion.

- Performance monitoring wells (PT-17, PT-18A, PT-22, PT-24, MWT-7, MWT-22, MWT-24, and MWT-25) will continue to be monitored on a semi-annual basis in a manner consistent with the Year 3 LTM program. In the three years of LTM events at the Ash Landfill OU, the concentrations of COCs, specifically Trichloroethylene (TCE), in the wells downgradient of the source area (near PT-18A) have decreased.
- The off-site performance monitoring well (MW-56) will continue to be monitored on a semiannual basis.
- The vegetative covers at the Ash Landfill and the NCFL will be inspected annually to ensure that they remain intact and protective of ecological receptors.
- The frequency of monitoring and the need to recharge the biowalls will be reviewed in the annual report submitted after the completion of the fourth year of LTM, based on the process outlined in Figure 7-3 of the RDR (Parsons, 2006a).

3.2 Progress on Recommendations

In general, the SEAD-3/6/8/14/15 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

There have been eighteen rounds of groundwater monitoring conducted at the Ash Landfill which have been documented in eight LTM reports.

These Annual Reports review the results of the LTM program as part of the ongoing evaluation of the remedy and provide conclusions and recommendations about the effectiveness of the remedial action, including the groundwater remedy and the vegetative landfill covers.

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Based on the results of the long-term monitoring at the Ash Landfill since the installation of the full-scale biowalls, the Army has made the following conclusions:

- Trichloroethylene (TCE) within the biowalls remains below or close to detection limits;
- TCE, cis-Dichloroethylene (cis-DCE), and Vinyl Chloride (VC) are present in the groundwater at the site at concentrations above respective Class GA groundwater standards;
- Chemical results indicate that the concentrations of chlorinated ethenes are decreasing as they pass through the biowall systems;
- Geochemical parameters indicate that groundwater redox conditions are conducive for reductive dechlorination to occur within the biowalls;
- Concentrations of chlorinated ethenes at off-site well MW-56 are below Class GA groundwater standards;
- Continued monitoring is required to determine trends in concentrations of COCs at MWT-22, PT-22, PT-17, and MWT-7;
- Recharge of the biowalls is not necessary at this time;
- The remedial action continues to meets the requirements of the USEPA's "operating properly and successfully" designation; and
- The Army will continue to monitor the performance of the biowall system, including semi-annual
 periodic evaluations of the potential need to recharge the biowalls.

4.3 Site Inspection

The five SEADs (SEADs 3, 6, 8, 14, and 15) comprise the Ash Landfill OU were inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

- No prohibited facilities were present or had been constructed at the site and no access to, or use of, groundwater was evident.
- The integrity of the current remedial and monitoring system, including permeable reactive barriers and monitoring wells, was found to be intact; and
- Landfill covers/containment features were in place and operating as designed and no damage to the cover/containment was observed.

The following observations were made during the site inspection:

Recent inspection of the vegetative covers at the Ash Landfill and the NCFL continue to indicate
that the covers are preventing ecological receptors from contacting the underlying soil; therefore,
there is no risk to the environment.

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The site inspection confirmed that no prohibited excavation has occurred, no prohibited facilities have been constructed, and no access to or use of groundwater was evident. Maintenance of the vegetative soil layer over the ash fill areas and the NCFL appears to be adequate to limit ecological contact. The integrity of the impermeable reactive barriers appears to be adequate.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since the Ash Landfill is uninhabited and unoccupied, no interviews were conducted during the FYR process for the Ash Landfill

4.5 Institutional Controls Verification

The LUCS, environmental easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed RODs for AOCs within the Ash Landfill OU have been completed and documented. Long Term Remedy Maintenance and Monitoring activities are being conducted as required in the Ash Landfill OU. Based on a review of the RDR (Parsons, 2006c), LTM Reports, LUCs RD, environmental easement, transfer deed, and the FYR site visit conducted between June 1 and 3, 2015, all remedies are functioning as intended by the decisions documents.

The remedy implemented at Ash Landfill AOCs (SEADs 3, 6, 8, 14, and 15) currently is protecting human health and the environment because:

- The remedy action required by the ROD has been conducted and completed, and the results of the implemented remedial action has been reported to, and accepted by the USEPA and the NYSDEC.
- the permeable reactive barrier walls installed to intercept and treat the contaminated groundwater
 plume identified within the OU have been shown to be operating properly and successfully and are
 promoting the reduction of the primary plume contaminant's (trichloroethene) concentrations in
 groundwater without allowing breakdown-product contaminants (vinyl chloride, dichloroethene,
 etc.) to spread beyond the bounds of the OU at levels that threaten groundwater supplies;
- the integrity of the existing monitoring wells and permeable reactive barrier walls is being monitored and maintained;
- soil covers installed over the Ash Landfill and the NCFL have re-vegetated and have been observed to be in good repair with only minor indications of small animal burrow at limited locations;
- the former abandoned incinerator (Building 2207, SEAD-15) has been demolished and the associated demolition debris has been removed from the OU and disposed at an off-site landfill;
- new construction of temporary or permanent inhabitable buildings or structures has not occurred.

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The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for Ash Landfill.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid (**Attachment 3**). There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for the PID/Warehouse Area of the former SEDA.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the RODs for SEAD-3/6/8/14/15 and the PID/Warehousing Areas. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR.

Based on this FYR and the first nine years of long-term monitoring at the Ash Landfill OU, the Army recommends continuing the semi-annual frequency of monitoring. The recommendations for LTM during year nine of monitoring are as follows:

- Biowall process monitoring wells (MWT-26, MWT-27, MWT-28, MWT-29, and MWT-23) will be monitored on a semi-annual basis. Each year a recharge evaluation will be completed. As stated in the RDR (Parsons, 2006b), if a recharge is conducted, MWT-26, MWT-27, and MWT-29 would be excluded from the LTM program, as detailed in Figure 12. MWT-28 and MWT-23 will continue to be monitored as part of the performance monitoring wells to supplement data that will be used to determine whether additional biowall recharge is required. The recharge evaluation(s) conducted each year after the first biowall recharge would review the chemical and geochemical data at MWT-28 and MWT-23, and determine if the contaminant increase is a result of poor biowall performance or due to other issues such as seasonal variations in groundwater levels, unusual precipitation events, or desorption and back diffusion;
- Performance monitoring wells (PT-17, PT-18A, PT-22, PT-24, MWT-7, MWT-22, MWT-24, and MWT-25) will continue to be monitored on a semi-annual basis in a manner consistent with the Year 3 LTM program. In the eight years of LTM events at the Ash Landfill OU, the concentrations of COCs in the wells downgradient of the source area (near PT-18A) have decreased;
- The off-site performance monitoring well (MW-56) will continue to be monitored on a semi-annual basis;

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- The vegetative covers at the Ash Landfill and the NCFL will be inspected annually to ensure that they remain intact and protective of ecological receptors; and
- The frequency of monitoring and the need to recharge the biowalls will be reviewed in the annual report submitted after the completion of the tenth year of LTM.

5.5 Protectiveness Statement

The remedy implemented for Ash Landfill and PID/Warehousing Areas is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

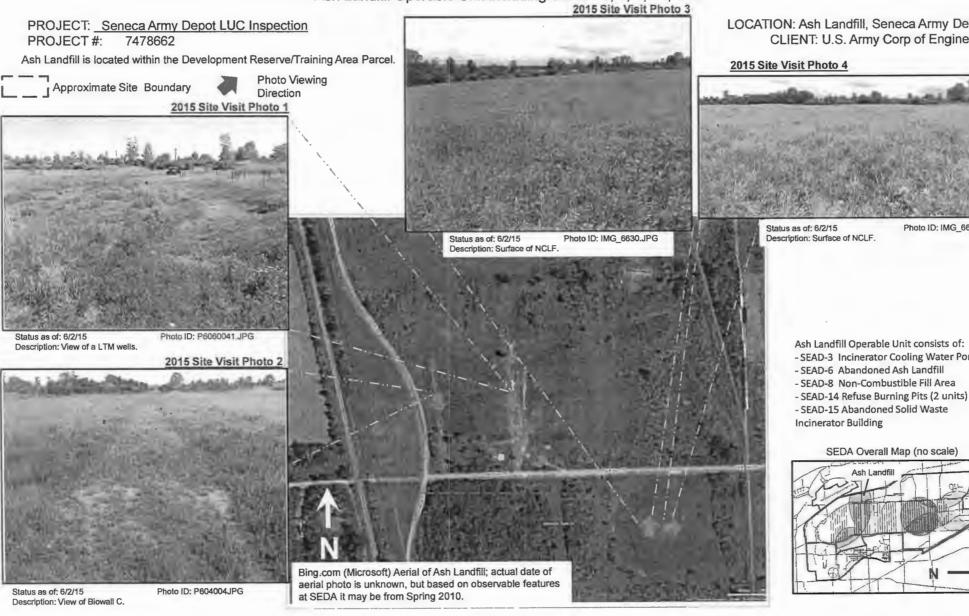
Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment Z-1 Five Year Review - Site Visit Photo Log Ash Landfill Operable Unit including SEADs 3, 6, 8, 14, & 15



LOCATION: Ash Landfill, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

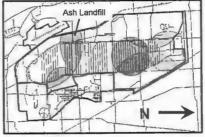


Photo ID: IMG_6629.JPG

Ash Landfill Operable Unit consists of:

- SEAD-3 Incinerator Cooling Water Pond
- SEAD-6 Abandoned Ash Landfill
- SEAD-8 Non-Combustible Fill Area
- SEAD-15 Abandoned Solid Waste

SEDA Overall Map (no scale)



ATTACHMENT 2

Site Inspection Checklist

I. SITE INFORMATION			
Site name: SEAD -3	Date of inspection: June 1, 2015		
Location and Region: ASN January	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 570+		
Inspector: Dave Babcock, PE	Signature: State		
Remedy Includes: (Check all that apply) Landfill cover/containment			
Attachments:	Site map attached Gentletter (See		
II. INTERVIEWS	(Check all that apply) commelly. MU		
1. O&M site manager	ne no Date Photosky		
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached □	Title Date ne no.		
3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.			
Agency	Title Date Phone no.		
Agency	Title Date Phone no.		
 Other interviews (optional) ☐ Report attached 	I.		

I. SITE IN	VFORMATION	
Site name: SEAD ~	Date of inspection: June , 2015	
Location and Region:	EPA ID: NY0213820830	
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 57 t lightain	
Inspector: Dave Babcock, PE	Signature:	
☐ Access controls ☐ Institutional controls ☐ Groundwater pump and treatment	Monitored natural attenuation Groundwater containment Vertical barrier walls SEAD-3. Mandana Mandana Mandana Mandana Mandana	e e
Attachments:	Site map attached Photos by BE	9/10
II. INTERVIEWS	S (Check all that apply)	1210
Interviewed □ at site □ at office □ by phone Ph	Title Date	
Interviewed □ at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	one no.	
	gencies (i.e., State and Tribal offices, emergency response th or environmental health, zoning office, recorder of fill in all that apply.	
Agency	Title Date Phone no.	
Agency		
Name Problems; suggestions; □ Report attached	Title Date Phone no.	
 Other interviews (optional) □ Report attached 	d.	

I. SITE INFORMATION			
Site name: SEAD	Date of inspection: June , 2015		
Location and Region:	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 570F, light pun		
Inspector: Dave Babcock, PE	Signature:		
☐ Access controls ☐☐ ☐ Institutional controls ☐☐ ☐ Groundwater pump and treatment			
Attachments:	Site map attached Phatos by BBO Col 21		
II. INTERVIEWS	(Check all that apply)		
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached 2. O&M staff			
2. O&M staff Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date		
office, police department, office of public health deeds, or other city and county offices, etc.) Fill Agency Contact Name	encies (i.e., State and Tribal offices, emergency response or environmental health, zoning office, recorder of in all that apply. Title Date Phone no.		
Agency ContactName	Title Date Phone no.		
Problems; suggestions; ☐ Report attached 4. Other interviews (optional) ☐ Report attached.			

I. SITE INF	FORMATION	
Site name: SEAD	Date of inspection: June 1, 2015	
Location and Region: TM Land III EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 37 of light our	
Inspector: Dave Babcock, PE	Signature:	
☐ Access controls	Monitored natural attenuation Groundwater containment Vertical barrier walls as FSAD-3. Mantaring angoing.	and
Attachments: □Inspection team roster attached	Site map attached Photos by	BB
II. INTERVIEWS	(Check all that apply)	
Name Interviewed □ at site □ at office □ by phone Phor Problems, suggestions; □ Report attached	Title Date	
Name Interviewed □ at site □ at office □ by phone Phor Problems, suggestions; □ Report attached	Title Date no	
Interviewed □ at site □ at office □ by phone Phore Problems, suggestions; □ Report attached	Title Date Date encies (i.e., State and Tribal offices, emergency response or environmental health, zoning office, recorder of a in all that apply. Title Date Phone no.	

I. SITE INFORMATION			
Site name: SEAD - 15	Date of inspection: June , 2015		
Location and Region: /5/	EPA ID: NY0213820830		
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: 579	lightrein	
Inspector: Dave Babcock, PE	Signature:		
☐ Access controls ☐	Monitored natural attenuation Groundwater containment Vertical barrier walls 10-3. Mandanana	and monitoring	
Attachments:	☐ Site map attached Ph	otos by BBO 6/415	
	(Check all that apply)		
1. O&M site manager Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	ne no.	Date	
2. O&M staffName			
Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date ne no.		
3. Local regulatory authorities and response ag office, police department, office of public health deeds, or other city and county offices, etc.) Fil	n or environmental health, zoning office		
Agency Contact Name Problems; suggestions; Report attached	Title Date		
Agency	Title Date	Phone no.	
 Other interviews (optional) □ Report attached 	L		

APPENDIX AA

AIRFIELD PARCEL (SEAD-122B – AIRFIELD SMALL ARMS RANGE AND SEAD-122E PLANE DEICING AREA)

APPENDIX AA: Airfield Parcel (SEAD-122B and SEAD-122E)

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

SEAD-122B – Small Arms Range (SAR) located on the Airfield Parcel along Route 96A was previously used by the Air Force, Navy, and Army as a small arms qualification ground. The Airfield SAR is located in the southwest corner of SEDA adjacent to the SEDA Airfield. The SAR consists of two contiguous bermed small arms ranges: one previously used for small arms training, and the second previously used for machine gun targeting (Parsons, 2007a). The firing line areas were suspected to contain UXO, high lead concentrations, and possibly other high metal concentrations.

SEAD-122E is associated with the deicing of planes at three separate aircraft refueling areas at the former SEDA Airfield. The property was active from 1942 until it was officially closed in 2000, but is currently utilized by the New York State Police for training and special events. All three of the historic deicing/refueling pads that comprise SEAD-122E are located along the western side of the northwest-southeast runway. Two of the deicing/refueling pads are located near either end of the runway, while the third is located at the end of a short taxiway, west of the central portion of the runway.

1.2 Initial Response

The investigative work at SEAD-122B included an EBS in 1998, an initial site investigation in 2002, and a treatability study in 2004. As part of the 2004 treatability study, approximately 500 cubic yards of soil was excavated from locations where high concentrations of total lead were found during the 2002 investigation in the larger of the two SARs. Other metals detected at levels above their respective NYSDEC cleanup objective levels were collocated within the areas where high lead concentrations were found. The excavation area was delineated by elevated lead concentrations greater than 400 ppm and included the western face of the backstop berm and a drainage swale that carried surface water runoff away from the firing range area. The top three inches of soil on the surface of the firing range's floor were also excavated. The final results reported confirm that all excavated locations exhibited lead concentrations at levels less than 400 ppm.

The investigative work at SEAD-122E included an EBS that was performed in 1998 and 1999 (Parsons ES, 1999b).

1.3 Basis for Taking Action

An action was required at SEAD-122B and SEAD-122E to ensure land use remains protective of site users. SEAD-122B and SEAD-122E is part of the PID/Warehouse Area and the planned future use for this tract of land is for industrial, office development, and/or warehouse areas.

1.3.1 Contaminants of Concern

At SEAD-122B, TAL metals analysis indicated lead concentrations well above the TAGM SCO. In addition, antimony, arsenic, copper, silver, sodium, thallium, and zinc were detected at concentrations slightly over the SCOs. One TCLP lead concentration was above the RCRA limit of 5,000 μg/L. The Synthetic Precipitation Leaching Procedure (SPLP) metals results indicated that there were levels of antimony, iron, and thallium above the NYSDEC Class GA groundwater standards. The maximum detected

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concentrations of iron and thallium were consistent with SEDA background levels. Groundwater was found to not be impacted by contact with or contaminant migration from the SAR soil (Parsons, 2004e).

For SEAD-122E, the Final EBS Report was issued to USEPA and NYSDEC in May 1999 (Parsons, 1999b). The constituents of concern are SVOCs and principal components of deicing fluids (alcohols/glycols, i.e., ethylene glycol, propylene glycol, total unknown alkanes) in soil and groundwater. No deicing chemicals (e.g., glycols) were detected in any of the six soil samples characterized during this event. None of the compounds detected in the four groundwater samples exceeded groundwater standards.

Human Health and Ecological Risk Assessment

A risk assessment was not performed for SEAD-122B, where the results of the treatability study indicated that the cleanup objectives established for the treatability study had been achieved and all lead concentrations remaining at the AOC were below the USEPA's guidance value for residential soils.

For SEAD-122E, the risk assessment concluded that at SEAD-122E the human health cancer risks were the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ for the industrial worker and the construction worker. The cancer risk values for the day care center worker and day care center child, 2 x 10⁻⁴ and 1 x 10⁻¹ ⁴, respectively, are above or at the acceptable level. The unacceptable cancer risk is due to dermal contact to soil and ingestion of soil. The contributing COCs are cPAHs in soils. A summary of the risk assessment results is presented in Table 7-15 of the ROD (Parsons, 2007a). The calculated non-cancer HI for all receptors are less than 1.0.

For comparison purposes, risk to residential receptors was evaluated. The non-cancer HIs were less than 1.0. Cancer risk values were above USEPA acceptable limits due to the presence of cPAHs in the soil.

2.0 REMEDIAL ACTIONS

2.1 **Remedy Selection**

The ROD titled "Seventeen SWMU Requiring Land Use Controls (SEADs 13, 39, 40, 41, 43/56/69, 44A, 44B, 52, 62, 64B, 64C, 64D, 67, 122B, and 122E) "signed on July 3, 2007 required the establishment of ICs at the two sites (SEADs 122B and 122E) comprising the area known as the Airfield Parcel required the establishment of an IC. The elements that composed the remedy included:

Establishing, maintaining, monitoring, and reporting on a LUC that prohibits residential housing, elementary and secondary schools, childcare facilities and playgrounds until unrestricted use and unlimited exposure criteria are attained within the AOCs; and,

2.2 Remedy Implementation

The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 2 expanded the LUC RD from the PID area to include sites that are in the area formerly known as the Conservation Area and the Airfield parcels, and applied the SEAD LUC RD enforcement provisions to SEADs 122B and 122E.

An Environmental Easement for the PID/Warehouse Area (expanded to include the Airfield parcel) was recorded in the Seneca County Clerk's office on July 9, 2009.

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SEAD-122B and SEAD-122E were transferred to the SCIDA with a Quitclaim Deed executed on June 8, 2009. The PID/Warehouse Area property was transferred with the land use restrictions, consistent with the LUC Objectives as defined in the LUC RD. The deed for the PID/Warehouse Area incorporated by reference the land use restrictions set forth in the Environmental Easement.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the Five-Year Review and on an annual basis.

2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous Five-Year Review, the Army made the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-122B and SEAD-122E recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

No data was reviewed as part of the FYR Process.

4.3 Site Inspection

SEAD-122B and SEAD-122E was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in **Attachment 1** and completed FYR site inspection checklists are contained in **Attachment 2**.

The following observations were made during the site inspection:

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 no prohibited facilities were present or had been constructed at the site and no access to, or use of, groundwater was evident.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEADs 122B and 122E are uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-64B.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the completed ROD for the Airfield Parcel have been completed and documented. Based on a review of the LUCs RD Addendum 2, Environmental Easement, transfer deed, and the FYR site visit conducted between June 1 and 3, 2015, the remedy is functioning as intended by the decision documents.

The selected remedy is still protective of human health and the environment because:

 the LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds, and which also has been expanded to include land within the PID Area and Airfield parcel has been implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-122B and SEAD-122E.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of LUCs that would affect the protectiveness of the remedy selected for the Airfield Parcel.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEADs 122B and 122E. On-going remedial monitoring activities include periodic evaluations of the effectiveness of the remedy. There have been no changes in the physical conditions of the site that would

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affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

One issue was identified during this FYR. The Army has the following recommendations:

- Continue the implementation of LUCs and the annual frequency of periodic reviews;
- Based on EPA request, the Army has agreed to sample for perfluroalkyl substances [PFAS] at sites
 where Aqueous Film Forming Foams (AFFF) (e.g., firefighting foams) may have been used. As
 part of this program, future sampling for PFAS at SEAD-122E is expected. A sampling plan for
 SEAD-122E will be documented in a future report.

5.5 Protectiveness Statement

The remedy implemented for Airfield Parcel is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment AA-1 Five Year Review - Site Visit Photo Log SEAD-122B Small Arms Range, Airfield Parcel

PROJECT: Seneca Army Depot LUC Inspection PROJECT #: 748662

2015 Site Visit Photo 1



Status as of: 6/1/15 Description: SEAD-122B Photo ID: IMG_6621.JPG

2015 Site Visit Photo 2



Status as of: 6/1/15 Description: SEAD-122B Photo ID: IMG 6620.JPG

SEAD-122B is located within SEDA Overall Map (no scale) the Airfield Parcel. SEAD-122B



Approximate Site Boundary



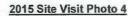
Photo Viewing Direction

Bing.com (Microsoft) Birds Eye Aerial of SEAD-122B; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2007.

LOCATION: SEAD-122B, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers



Status as of: 6/1/15 Description: SEAD-122B Photo ID: IMG 6623.JPG





Status as of: 6/1/15 Description: SEAD-122B Photo ID: IMG_6622.JPG

Attachment AA-1 Five Year Review - Site Visit Photo Log SEAD-122E Plane Deicing Area

PROJECT: Seneca Army Depot LUC Inspection

PROJECT#: 748662

LOCATION: SEAD-122E, Seneca Army Depot CLIENT: U.S. Army Corp of Engineers

Bing.com (Microsoft) Birds Eye Aerial of SEAD-122E; actual date of aerial photo is unknown, but based on observable features at SEDA it may be from Spring 2007.

2015 Site Visit Photo 1



Status as of: 6/1/15 Photo ID: IMG_6626JPG Description: SEAD-122E

SEAD-122E is located within the Airfield Parcel.

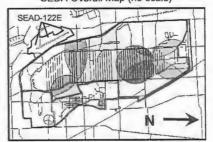


Approximate Site Boundary



Photo Viewing Direction

SEDA Overall Map (no scale)



2015 Site Visit Photo 2



Status as of: 6/1/15 Photo ID: IMG_6628JPG Description: SEAD-122E

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD - 122B	Date of inspection: June 1, 2015			
Location and Region: Former Airfield	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature: Got Gloudy			
Inspector: Dave Babcock, PE	Signature: DBJ94M			
□ Access controls □ (Monitored natural attenuation Groundwater containment Vertical barrier walls No Visual evaluation Swelzement.			
Attachments:	□ Site map attached Photos My Ble.			
II. INTERVIEWS (1. O&M site manager State police of Name	(Check all that apply)			
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date			
	Title Date Phone no.			
Agency				

SEDA LUC Inspections Site Inspection Checklist

I. SITE IN	FORMATION		
Site name: SEAD -122E 3 FORMES	Date of inspection: Jun	el, 2015	
Location and Region: Former Hirteet	EPA ID: NY021382083	30	
Agency, office, or company leading the five-year review: Parsons	Weather/temperature:	Clay	gly
Inspector: Dave Babcock, PE	Signature:	(And	2
☐ Access controls ☐	Monitored natural attenuat Groundwater containment Vertical barrier walls No sussul of recent devel		Journal on King
Attachments:	☐ Site map attached	Phe	tos by BBC
II. INTERVIEWS	(Check all that apply)		V
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title	Date	
Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	ne no.		
3. Local regulatory authorities and response agoffice, police department, office of public health deeds, or other city and county offices, etc.) Fill Agency Contact Name	or environmental health, z in all that apply. Title	Oning office	Phone no.
Problems; suggestions; Report attached Agency Contact Name			
Problems; suggestions; Report attached	Title	Date	Phone no.
 Other interviews (optional) ☐ Report attached 			

APPENDIX AB SEAD-12 - RADIOACTIVE WASTE BURIAL SITES

APPENDIX AB: SEAD-12 Radioactive Waste Burial Sites

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The Radioactive Waste Burial Site (SEAD-12) is located in the north-central portion of the former Seneca Army Depot also known as the high security area and referred to as the "Q Area". The SEAD-12 remedial investigation covered 624 acres of the Q Area including the burial areas noted above. After the ESI, Building 715 and the portion of Reeder Creek adjacent to SEAD-12 were also included in the RI at SEAD-12. Building 715 is a wastewater treatment plant that received wastewater from the buildings within the Q Area during the period of their Army use. This facility currently receives wastewater from the Hillside Children's Center, which is now located in the AOCs former Troop Area to the north and west of SEAD-12. Reeder Creek receives the surface water runoff from SEAD-12, and other locations within the former Depot, as well as the wastewater discharge from Building 715.

The contaminant sources at SEAD-12 were the military-related items and other debris associated with the historic waste burial activity within the AOC. Prior test pitting operations conducted as part of the SEAD-12 ESI and the SEAD-12 RI indicated that buried material contained in the burial pits included an undefined quantity of military-related debris, other conventional forms of debris (e.g., construction and demolition [C&D] debris, miscellaneous debris, etc.), and fill material, all of which was covered by known thicknesses of native, overburden soil.

1.2 Initial Response

An ESI was conducted for SEAD-12A and SEAD-12B in 1994, and included the sampling and analyses of surface and subsurface soil, groundwater, surface water, and sediment. A RI was started at SEAD-12 in 1997 and the final RI Report was issued in 2002. The RI consisted of geophysical investigations; radiological investigations, including the building surveys mentioned above; a soil gas survey; test pitting; sampling and analysis of surface and subsurface soil, groundwater, surface water, and sediment; a baseline human health risk assessment (HHRA); an ecological investigation; and a SLERA.

Analytical data collected during the 1995 ESI and 2002 RI are presented, summarized, and discussed for each potential release area in the SEAD-12 RI Report. Based on the investigation data and available documentation of activity associated with the former AOC operations, three potential release areas (i.e., the Former Dry Waste Disposal Pit, Disposal Pit A/B, and Disposal Pit C) were considered impacted to the greatest extent by former activities performed in the AOC. At two of these areas military-related items were identified during test pitting operations during the ESI and RI. Analytical data for conventional chemical and radiological contaminants identified in soil from each of these three areas were combined with AOC-wide analytical results for conventional chemical and radiological contaminants in surface water, sediment, and groundwater and used as the basis of the risk assessments for SEAD-12. Based on the conclusions in the RI, a supplemental RI (SRI) was conducted in 2006 to further characterize TCE found north of Building 813 and conduct additional soil sampling at EM-5.

The radiological building survey conducted as part of the RI concludes that all buildings in SEAD-12 are in compliance with the NYSDEC cleanup guideline (i.e., 10 mrem/yr) identified in the NYSDEC Cleanup

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Guidelines for Soils Contaminated with Radioactive Materials (DSHM-RAD-05-01). Results of the radiological building survey are presented in the Final Radiological Survey Report (Parsons, 2002d).

A SRI was conducted during 2004 and 2005 to further investigate the extent of TCE found in groundwater in the Buildings 813/814 area and the level of ²¹⁰Pb present in the area of EM-5.

The Army performed a removal action during 2009 in the historic waste burial pits to excavate material contained within the pits and allow the Army to examine the contents so that military-related items could be identified, removed, and secured, pending any final demilitarization, dismantling, and disposal. Recovered military-related items were not found to coexist with conventional chemical hazardous substances at concentrations of particular concern, but in many cases the recovered military-related items did exhibit levels of residual radiation at levels in excess of regional background. 5433 tons of soil and comingled debris were disposed of at an off-site licensed landfill, 122 ton of material were recycled and 13.25 tons of military-related items with radiological residuals in excess of background levels were secured and disposed of at an off-site licensed low-level radioactive waste disposal site.

1.3 Basis for Taking Action

An action was required at SEAD-12 to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

The contaminant sources at SEAD-12 were the military-related items and other debris associated with the historic waste burial activity within the AOC. The source of the TCE was remediated to the limit of the building foundation; however, no investigation was conducted under the building structure. The history of the previous TCE contamination is noted since the condition under the adjacent building is unknown. The areas of concern are where residual TCE-contaminated soil and where contaminated groundwater may exist. Table 6-1 of the ROD (Parsons, 2015g) presents a comparison of the ESI and RI soil analytical results to the NYSDEC Unrestricted Use SCOs and the USEPA RSLs for Chemical Contaminants at Superfund Sites for residential soil.

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-12 for all future receptors under the institutional/training/commercial scenario the human health cancer risks were within the CERCLA cancer risk management range of 1×10^{-4} to 1×10^{-6} , and the calculated non-cancer HI for all receptors except for the industrial worker are less than 1.0. Table 7-1 in the ROD summarizes risks calculated for exposures to SEAD-12 impacted media (soil, groundwater, surface water, and sediment/ditch soil).

A potential risk is assumed to exist in the vicinity of the previously noted TCE contamination that was identified in the soil and groundwater in the immediate vicinity of Buildings 813/814 and former well MW12-37. Residual VOC contamination in soil does not pose a direct-contact hazard but has the potential to pose a future vapor intrusion exposure. With no future planned use of Buildings 813/814, a risk assessment was not performed to evaluate potential risks via the indoor air exposure pathway. To assure that SEAD-12 will not pose a future unacceptable risk if Building 813 or 814 were to be occupied, or if any building overlying the current buildings' footprints or on adjacent land were to be constructed,

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an investigation of vapor intrusion potential and indoor air quality would be needed to assess and estimate potential risks from VOC vapor intrusion.

As part of the RI, a SLERA was conducted. The results of the SLERA indicate that soil, surface water, or sediment at SEAD-12 does not significantly impact ecological receptors in the area (i.e., short-tailed shrew, meadow vole, red-tailed hawk, great blue heron, mourning dove, largemouth bass, amphibian, and invertebrates). No COCs were identified for SEAD-12 soil, sediment, or surface water, and SEAD-12 does not pose significant risks to ecological receptors.

Results of the CERCLA risk assessment for SEAD-12 indicate that soil in the three most impacted areas (Disposal Pit A/B; Disposal Pit C; and the Former Dry Waste Disposal Pit) and other environmental media (groundwater, sediment, surface water) do not pose unacceptable risks to human health or the ecological receptors based on the unrestricted use scenario. Therefore, no further CERCLA action is warranted at any location within SEAD-12, exclusive of the area where Buildings 813/814 are located.

The Army and the USEPA have determined that no further CERCLA action is warranted at any locations in SEAD-12 and SEAD-72, exclusive of the area underlying and surrounding Buildings 813/814 where a future vapor intrusion risk analysis would be warranted prior to occupation.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "The Radioactive Waste Burial Sites (SEAD-12) and The Mixed Waste Storage Facility (SEAD-72)" (Parsons, 2015g) require the establishment of ICs. The elements that composed the remedy included:

- Implementation, monitoring, and maintenance of an environmental LUC restricting access to and
 use of the existing vacant Buildings 813/814 and the construction of inhabitable structures
 (temporary or permanent) above the area and within a fifty foot perimeter of Buildings 813/814
 and fifty foot radius from MW12-37 where TCE-contaminated soil was previously identified, and
 where contaminated groundwater may exist; and
- Implementation, monitoring, and maintenance of a LUC that prohibits access to and use of groundwater in the vicinity of Buildings 813/814.
- Prohibit the development and use of the property for residential housing, elementary and secondary schools, child care facilities and playgrounds until soil and groundwater standards for unrestricted use and unlimited exposure are achieved.

2.2 Remedy Implementation

The LUC RD for SEAD-12 implemented the LUCs. The LUC RD for SEAD 27, 66, and 64A ("SEAD LUC RD") implemented land use controls for the entire SEAD PID/Warehouse Area. Addendum 5 to the SEAD LUC RD added SEAD 12 in accordance with the SEAD LUC RD Supplementation provision.

The Army will maintain and enforce the LUCs until the concentration of hazardous substances in soil and groundwater are at such levels to allow for unrestricted use and exposure or until the property is

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transferred. The LUC will be implemented through an Environmental Easement which documents and transfers the LUC objectives and responsibilities to the future owners. The Environmental Easement will be recorded and identified in the Deed when the property is transferred.

The Environmental Easement, the implementing document granted upon property transfer out of federal ownership, will state that the future property owner will perform an investigation of vapor intrusion potential and indoor air quality with the results of the surveys reviewed and approved by the Army, USEPA, and NYSDEC before the buildings, or any newly constructed buildings in the designated area may be occupied. The groundwater access and use restriction, established by the Environmental Easement, will be maintained and in effect until a future property owner demonstrates with new analytical data provided to, and approved by the Army, USEPA, and NYSDEC to indicate that groundwater in the LUC-zone (e.g., vicinity of Building 813 and 814, and former well MW12-37) meets GA groundwater standards.

As the selected remedies do not allow unrestricted use and unlimited exposures, the Army or its successors are required to complete a review of the selected remedies at least once every five years, in accordance with Section 121(c) of the CERCLA. The selected LUC remedy is reviewed in accordance with this inspection frequency; the LUCs are inspected as part of the FYR and on an annual basis.

System Operations/Operation and Maintenance 2.3

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

Not applicable, the ROD for SEAD-12 was executed in March 2015, and this AOC was not inspected as part of the first FYR.

3.2 **Progress on Recommendations**

Not Applicable.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 **Document Review**

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 **Data Review**

No data was reviewed as part of the FYR Process.

4.3 **Site Inspection**

SEAD-12 was inspected between June 1 and June 3, 2015 to assess whether required LUCs imposed by the approved RODs are being maintained. FYR-site visit photo logs are contained in Attachment 1 and completed FYR site inspection checklists are contained in Attachment 2.

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The following observations were made during the site inspection:

- Buildings 813/814 were not occupied
- No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-12.
- No access to or use of groundwater.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-12 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-12.

4.5 Institutional Controls Verification

The LUCS, Environmental Easements, and deed restrictions are in place. The LUC performance objectives are listed in Section 2.0.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by completed ROD for SEAD-12 have been completed and documented. No continuing active remediation is required at SEAD-12. Based on a review of Closure Reports, LUC RD, Environmental Easement, transfer deeds and FYR site visit conducted between June 1 and 3, 2015 all remedies are functioning as intended by the decisions documents.

The remedy implemented at the SEAD-12 is currently protective of human health and the environment because:

- a LUC that prevents access to, and use of, groundwater at the SEAD-12 LUC-zone has been implemented and is currently being maintained, monitored and reported upon periodically The LUC-zone includes a small portion of SEAD-12 being the area equal to i) fifty feet from the perimeter of Building 813/814 and ii) fifty feet from monitoring well MW12-37 where contamination by VOCs, primarily TCE, is at levels exceeding federal and state groundwater drinking water standards and state SCO levels. VOCs remain at sufficient concentrations to pose a potential risk via vapor intrusion to future users or occupants of the buildings or land;
- a second LUC that prevents the use of existing Buildings 813 and 814 and/or the construction of new inhabitable structures (temporary or permanent) above the area where there is the potential for TCE contaminated groundwater and/or soil, until a vapor intrusion study is conducted in the building(s) or in the restricted area and shows that potential risks from VOC intrusion does not pose unacceptable risk or hazard levels to future users or occupants of the structures or the land; and
- a third LUC that prevents the use of or the development of the property for residential housing, elementary or secondary schools, childcare facilities, or playgrounds at SEAD-12 has been

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implemented and is currently being maintained, monitored, and reported upon periodically.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-12.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid. There have been no changes in the exposure pathway or changes in the physical conditions of the site since completion of remedial action activities and implementation of LUCs that would affect the protectiveness of the remedy selected for SEAD-12 of the former SEDA.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-12. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment.

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. The Army has the following recommendations;

Continue the implementation of LUCs and the annual frequency of periodic reviews.

5.5 **Protectiveness Statement**

The remedy implemented for SEAD-12 is protective of the environment and protects human health. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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LIST OF ATTACHMENTS

Attachment 1 Photo Log

Attachment 2 Site Inspection Checklist

ATTACHMENT 1

Photo Log

Attachment AB-1 Five Year Review - Site Visit Photo Log SEAD-12 Radioactive Waste Burial Sites

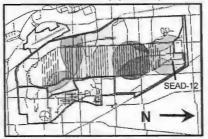
PROJECT: Seneca Army Depot LUC Inspection
PROJECT #: 748662

2015 Site Visit Photo 1

Photo ID: IMG_6614.JPG

Status as of: 6/1/15 Description: SEAD-12

SEDA Overall Map (no scale)



Approximate Site
Boundary

Photo Viewing Direction

Bing.com (Microsoft) Birds Eye Aerial of SEAD-12; actual date of aerial photo is unknown.



2015 Site Visit Photo 2



LOCATION: SEAD-12, Seneca Army Depot

CLIENT: U.S. Army Corp of Engineers

Status as of: 6/1/15 Description: SEAD-12

Photo ID: IMG_6613.JPG

2015 Site Visit Photo 3



Status as of: 6/1/15 Description: SEAD-12

Photo ID: IMG_6612.JPG

ATTACHMENT 2

Site Inspection Checklist

SEDA LUC Inspections Site Inspection Checklist

I. SITE INFORMATION				
Site name: SEAD -\2	Date of inspection: June	, 2015		
Location and Region: Q Area	EPA ID: NY0213820830			
Agency, office, or company leading the five-year review: Parsons	Weather/temperature:	Lystrain		
Inspector: Dave Babcock, PE	Signature:	N		
☐ Access controls ☐	Monitored natural attenuation Groundwater containment Vertical barrier walls			
Attachments:	☐ Site map attached	Photos by BBO		
II. INTERVIEWS	(Check all that apply)			
Interviewed □ at site □ at office □ by phone Phor Problems, suggestions; □ Report attached	Title	Date		
3. Local regulatory authorities and response age office, police department, office of public health deeds, or other city and county offices, etc.) Fill Agency Contact Name Problems; suggestions; Report attached	or environmental health, zon in all that apply. Title D	ate Phone no.		
Agency Contact Name Problems; suggestions; □ Report attached		ate Phone no.		

APPENDIX AC **SEAD-23 - OPEN BURNING GROUND**

APPENDIX AC: SEAD-23 Open Burning Grounds

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1.0 AREA SPECIFIC BACKGROUND INFORMATION

1.1 History of Contamination

The OB Grounds (SEAD-23) site occupies approximately 30 acres on gently sloping terrain in the northwest corner of SEDA as shown in Figure 3-1. The OB Grounds is bounded on the east by Reeder Creek, which is a perennial creek that is generally less than 1 foot deep and eventually flows into Seneca Lake. The quality of surface water in Reeder Creek has been designated by the State of New York as a Class C water body. Seneca Lake is located approximately 10,000 feet west of the site and is used as a source of drinking water for SEDA and surrounding communities.

The land at the OB Grounds had been used for demilitarization of munitions for approximately forty years. The open burning procedure involved the preparation of combustible beds of pallets and wooden boxes on the pads followed by the placement of ammunition or the components to be demilitarized on the beds. A trail of propellant was placed on the ground leading to the combustible bed. Once ignited the energetic material was allowed to burn until only ash and casing residues remained. Items burned included various military munitions such as propellants and projectiles.

The burning of munitions had been performed at designated burning pads, which ranged in size from approximately 100 by 100 feet to 300 by 800 feet. Designated munitions waste was open-burned on the nine separate burning pads until 1987. After 1987, munitions were destroyed by burning them within an aboveground steel tray to minimize the impact of the burning on the environment.

1.2 Initial Response

The open burning of waste munitions was identified as a RCRA regulated process. Due to the nature of SEDA's former mission, it was necessary for the facility to treat, store, and dispose of hazardous wastes including waste munitions. Consequently, a RCRA permit was a regulatory requirement for SEDA to perform these operations as a TSD facility.

SEDA applied for a RCRA Part A and Part B permit on May 1, 1987 and operated the facility under the interim status provisions of RCRA. Interim status allows a facility to operate as a TSD facility during the RCRA Part B permit application process.

Final closure of the OB Grounds under RCRA guidelines was deferred when SEDA was nominated for inclusion of the NPL in July 1989; SEDA was listed on the NPL in Group 14 on the Federal Section. Following SEDA's NPL listing, the Army, EPA, and NYSDEC agreed that any corrective actions required for any targeted problem sites would be regulated under CERCLA guidelines. RCRA requirements are an Applicable or Relevant and Appropriate Requirement (ARAR) pursuant to Section 121 of CERCLA.

1.3 Basis for Taking Action

An action was required at SEAD-23 to ensure land use remains protective of site users.

1.3.1 Contaminants of Concern

The primary media investigated at the OB Grounds included soil, surface water and sediment (from Reeder Creek, on-site areas and drainage swales), and groundwater. The primary COCs identified included metals,

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PAHs, explosive compounds, and phthalates. These components were likely released to the environment during the historic open burning activities.

During the 1999 remedial investigation, the burn pads at the OB Grounds were sampled for explosives including: HMX; RDX; 1,3,5-trinitrobenzene; 1,3-dinitrobenzene; tetryl; 2,4,6-trinitrotoluene; 4-amino-2,6-dinitrotoluene; 2-amino-4,6-dinitrotoluene; 2,6-dinitrotoluene; and 2,4-dinitrotoluene. None of the detections of explosives within soil were above the current EPA Industrial SCO (no state standards exist for these compounds).

1.3.2 Human Health and Ecological Risk Assessment

The risk assessment concluded that at SEAD-23, the human health cancer risks were within the CERCLA cancer risk management range of 1 x 10⁻⁴ to 1 x 10⁻⁶ and the he calculated non-cancer HI were less than 1.0 for all receptors. Table 7-3 in the ROD (Parsons, 1999c) summarizes the results for total carcinogenic risks and non-carcinogenic hazard.

The ecological risk assessment for the OB Grounds began by evaluating the COCs found at the site in conjunction with the site-specific biological species/habitat information. Soils and sediment, in particular on-site soils and sediment in the low lying wet areas suggest that site conditions may pose an elevated ecological risk due to the presence of heavy metals, especially copper and lead. This risk is increased in the low-lying areas where sediment from runoff accumulates. Sediments in Reeder Creek may also pose an elevated ecological risk due to the presence of heavy metals, such as copper and lead.

2.0 REMEDIAL ACTIONS

2.1 Remedy Selection

The ROD titled "Final ROD Former Open Burning (OB) Grounds Site" (Parsons, 1999c) outlines the elements that composed the remedy:

- Although OE is not expected to be found at depth at this site, through a combination of geophysics, excavation, sifting, removal and soil cover, the Army will nevertheless remediate OE to meet the DoD Explosive Safety Board (DDESB) requirements for unrestricted use or put into place land use restrictions as may be required by the DDESB.
- Excavation of soils with lead concentrations above 500 mg/kg and sediments from Reeder Creek with concentrations of copper and lead above the NYSDEC criteria of the 16 mg/kg and 31 mg/kg. respectively.
- Treatment of soils exceeding the TCLP, estimated to be approximately 3,800 cy of the excavated soil, via solidification /stabilization will be performed to remove the RCRA characteristic of toxicity. This will allow the soil to be landfilled, in accordance with the requirements of the LDR of RCRA.
- Disposal of the excavated and solidified soil in an off-site Subtitle D landfill. The total quantity of soil to be disposed of was estimated to be 17,900 cy, including the 3,800 cy of solidified soil.

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- Construction of a soil cover of at least 9 inches of compacted soils in the areas of the OB Grounds with soils remaining on the site with lead concentrations above 60 ppm. The area to be covered is estimated to be approximately 27.5 acres, which encompasses most of the area of the OB Grounds. The cap will be vegetated with indigenous grasses to prevent erosion and to prevent direct contact and incidental soil ingestion by terrestrial wildlife. The monitoring program will ensure that the 9-inch soil/vegetative cover is maintained after the remedy is complete.
- Control of surface water runoff, as necessary, to prevent erosion of the vegetative cover and solids loading to the creek. This will be accomplished with vegetation, regrading of site topography and drainage swales.
- Conducting a monitoring program for site groundwater and sediment in Reeder Creek. This program will monitor metals. For groundwater, the level of detection will be to below 15 µg/L, the federal action level for lead in groundwater. For sediment, the detection limit for lead will be to 10 mg/kg. Should a significant exceedance be noted, the exceedance will be confirmed through additional sampling and, if confirmed, appropriate corrective measures will be implemented to eliminate the threat posed by the exceedance. For groundwater, this action may include metals removal via filtering. A similar process will apply for a sediment exceedance observed in Reeder Creek. First, the source of the exceedance will be identified and confirmed. If the exceedance is determined to originate from the OB Grounds site, then maintenance of or improvements to the existing erosion control systems will be instituted to reduce the threat due to erosion of on-site soils to the Creek. This may include revegetation or the construction of drainage control swales or structures.
- Periodic monitoring of groundwater quality at the OB Grounds for lead and copper content;
- Periodic monitoring of the vegetated, compacted soil cover placed over the lead contaminated soil remaining at the OB Grounds to assess whether evidence of erosion or protective cover breaching were present, which could result in the potential migration of contaminated soil; and,
- Periodic monitoring of the sediment in Reeder Creek for lead and copper content.

2.2 Remedy Implementation

The OB Grounds Soil and Sediment Remediation Completion Report documents the remediation at the OB Grounds in accordance with WESTON's Revised Draft Work Plan dated April 1999, Parsons' Section C - Technical Specifications dated August 1998, and the ROD (Parson ES, 1999c). The primary activities completed by WESTON to achieve the remediation objectives for the Site included excavation and disposal of soils with concentrations of lead greater than 500 mg/kg, removal of sediment from Reeder Creek in areas adjacent to the OB Grounds, application of 9 inches of clean soil cover to areas where lead concentrations exceed 60 mg/kg, and establishment of a vegetative cover to prevent soil erosion.

Remediation activities at the site were conducted between June 1999 and May 2004. Work was conducted over this five year period in several different mobilizations and included the following tasks:

Mobilization and site preparation, including surveying and excavation area layout.

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- Decommissioning of 33 groundwater monitoring wells and one ground boring where a monitoring well (MW-28) had reportedly been installed but was not found at the time of the fieldwork.
- Excavation of approximately 88,000 cubic yards of Case I soil (>800 milligrams per kilogram (mg/kg) total lead), Case II soil (500 mg/kg 800 mg/kg total lead), and Case III soil (<500 mg/kg total lead).
- Diversion of Reeder Creek and excavation of approximately 2,300 cubic yards of creek sediments.
- Post-excavation confirmation sampling and characterization sampling.
- Stabilization of soils and sediments to meet TCLP hazardous waste disposal criteria.
- Off-site disposal of approximately 7,000 tons of untreated soil and 50,400 tons of treated (stabilized) soils and sediment as non-hazardous material at a licensed disposal facility.
- Off-site disposal of approximately 283,300 gallons of wastewater generated from site activities.
- Site restoration including: backfilling, grading, and seeding the site.

Following a review of the confirmatory soil sample results, it was concluded that the horizontal and vertical extents of lead in soil at the burn pad locations has been sufficiently delineated and removed from the OB Grounds to below 60 mg/kg (20.6 mg/kg average). In addition, all adjacent surface soils (within the 1-ft cut and site perimeter) have been reduced to below 500 mg/kg (89.6 mg/kg average). Combined, the burn pad, 1-ft cut, and site perimeter total lead average is 55.1 mg/kg (based on 274 samples).

SEAD-23 (OB Grounds)			
Soil Removal Cleanup Goals			
Cleanup Goal			
Analyte (mg/Kg) Goal M			
Lead	60	Yes	

A total of approximately 2,300 cy of sediment from Reeder Creek was removed and disposed of off-site, 32 monitoring wells were decommissioned, approximately 50,426 tons of soil were stabilized on-site prior to off-site disposal, and approximately 57,424 tons of soil was disposed of as RCRA Subtitle D Non-Hazardous soil at an approved facility.

A total of 25 grids encompassing an area of approximately 7 acres were backfilled to a depth of 9 inches using excavated soils containing less than 60 mg/kg total lead. All accessible areas of the OB Grounds were fine-graded and seeded.

LTM is ongoing, and the collection of groundwater quality data is needed to monitor the effectiveness of the implemented remedy at the site for preventing future impacts to groundwater at the OB Grounds and to sediments in Reeder Creek. Additionally, monitoring of the vegetated compacted soil cover placed over the buried soils at the OB Grounds is required to assure its long-term integrity and to prevent direct contact to, and incidental ingestion of, soils containing lead at concentrations up to 500 mg/kg by terrestrial wildlife at the site.

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2.3 System Operations/Operation and Maintenance

Not applicable; no active remedy.

3.0 PROGRESS SINCE LAST FIVE-YEAR REVIEW

3.1 Recommendations

In the previous FYR, the Army made the following recommendations;

· Continue the annual frequency of periodic reviews.

3.2 Progress on Recommendations

In general, the SEAD-23 recommendations in the previous FYR, the LUC recommendations were implemented as intended. The LUCs continued to be implemented and were inspected between the five year reviews. Annual LUC inspections were not conducted in 2012 and 2013; however, LTM and other activities were conducted within Seneca during this time and observations were consistent with previous inspection notes. New construction or use of the groundwater would most likely have been noted during these other activities. In addition, annual LUC inspections were conducted in 2014, 2015 and 2016 during which no new construction or access to, or use, of groundwater were observed. Therefore the LUCs are functioning as intended.

4.0 FIVE-YEAR REVIEW PROCESS

4.1 Document Review

See Section 14.0 References in the main FYR report for a summary of the documents, data, and information which were reviewed in completing this FYR.

4.2 Data Review

LTM is an integral component of the approved remedy implemented at the OB Grounds. The ROD, Former Open Burning Grounds Site, Final" (Parsons, 1999c) indicated that monitoring of groundwater and the vegetated soil cover at the OB Grounds, and of the sediment within Reeder Creek was required. In accordance with the approved remedy as presented in the ROD, the current LTM activities at the Site per the LTM Monitoring Plan for the OB Grounds (Parsons, 2007d) include the following three components:

- The annual collection and analysis of groundwater samples for lead and copper concentrations;
- The inspection of the vegetated, compacted soil cover that has been constructed over interred leadcontaminated soil as part of the Site remedial actions in order to assess if erosion or breaching of
 the protective cover has occurred, which could result in the potential migration of contaminated
 soil; and
- The inspection of Reeder Creek where the Creek abuts the OB Grounds to evaluate the potential for inward migration and deposition of soil from the OB Grounds.

The collection of groundwater quality data is needed to monitor the effectiveness of the implemented remedy at the site for preventing future impacts to groundwater at the OB Grounds and to sediments in

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Reeder Creek. Additionally, monitoring of the vegetated compacted soil cover placed over the buried soils at the OB Grounds is required to assure its long-term integrity and to prevent direct contact to, and incidental ingestion of, soils containing lead at concentrations up to 500 mg/kg by terrestrial wildlife at the site.

LTM began at the OB Grounds site in November 2007. LTM at the OB Grounds site was initially scheduled to occur on a quarterly basis. The results of the first four LTM rounds were combined and summarized in an annual report, in which, the recommended frequency of monitoring was recommended to change from quarterly to annually. Based on comments received from EPA and NYSDEC in 2009, the Army authorized the performance of an inspection of Reeder Creek. The monitoring frequency of groundwater was agreed upon by EPA and NYSDEC in February 2010 to be conducted annually. Subsequent to Round 5, investigations at the OB Grounds have included yearly groundwater sampling and inspection of both the soil caps and Reeder Creek. A summary of the groundwater trends based on the RI results, post-remedial action to date is summarized in the 2014 Long-Term Monitoring Annual Report for the Open Burning Grounds (Parsons, 2015).

The LTM data supports that groundwater at the Site has not been impacted by residual levels of copper and lead that remain in the soils at the Site. Total copper has not been detected above its RL in the groundwater during any of the post remedial action sampling rounds. Total lead has not been detected in the groundwater above the action level of 15 µg/L during any of the post remedial action sampling rounds. Six of the seven lead detections have been estimated concentrations and the maximum concentration of lead detected in nine rounds of sampling was 5.4 µg/L at well MW23-4 during Round 2. Evaluation of the water quality parameters measured at Site wells during current (and previous) LTM activities indicate generally mild alkaline conditions, which suggest that lead should not be readily mobile in groundwater under current Site conditions.

A visual inspection of the Reeder Creek streambed was conducted on October 14, 2014 at locations adjacent, down-gradient, and up-gradient to the OB Grounds. Based on the October 2014 inspection, there were no visible signs that OB Grounds site soils are being released via overland flow to Reeder Creek. As such, the Army does not see any evidence to suggest that a release of lead or copper above background levels is occurring from the OB Grounds site.

4.3 **Site Inspection**

SEAD-23 was inspected during the 2015 LTM event to assess whether the conditions of the approved RODs are being maintained.

The following observations were made during the site inspection:

No animal burrowing activity was observed in any of the capped areas. Signs of past minor erosion, as noted in the 2014 Annual Report, continue to be observed along the sloped edges of Grid I8 adjacent to the drainage ditch (between Grids J8 and J9) as a result of surface water run-off from the western portion of the Site towards Reeder Creek. However, the erosion area has not grown in size or depth. The sloped edges of Grid I8 were also observed to have lower vegetation density than the rest of the Grid. Overall, the erosion along the edges of the soil cover in Grid I8 has not changed since the October 2014 inspection and no corrective action is warranted at this time. The condition

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of this location will be reassessed during the next inspection event to determine if corrective measures are needed.

- Signs of minor erosion were observed where the soil cover transitions to the native ground surface at the western edge of the soil cover within Grid I7 and at the northern edge of the soil cover within Grid I6. These areas where signs of minor erosion had been observed had lower vegetation density than the rest of the respective Grids. The condition of these locations will be reassessed during the next inspection event and no corrective action is warranted at this time.
- The northeast corner of Grid A5 and east side of Grid D7 contained areas with sporadic vegetation. Each of these grids had areas which were not as densely vegetated as the surrounding area. In each case, no disturbances to the soil cap were observed, and no signs of erosion were evident. The condition of these locations were similar to conditions observed in October 2014 and previous inspections. The condition in these areas will be reassessed during the next inspection event. No corrective action is warranted at this time.
- The shallow tire ruts in Grid C7 which had been regraded and filled with crushed shale following
 the October 2014 inspection were in good condition. No disturbances to this corrective measure or
 the remaining sections of the soil cap in Grid C7 were observed. The condition of the corrective
 measure will be reassessed during the next inspection event.

The selected remedy is still protective of human health and the environment.

4.4 Interviews

Since SEAD-23 is uninhabited and unoccupied, no interviews were conducted during the FYR process for SEAD-23.

4.5 Institutional Controls Verification

Not applicable.

5.0 TECHNICAL ASSESSMENT

5.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes. Remedial actions required by the ROD for the OB Grounds have been completed and documented (Weston, 2005b). No continuing active remediation is required in OB Grounds. Based on a review of the remediation completion report, LTM Reports, and the FYR site visit conducted between June 1 and June 3, 2015 the remedy is functioning as intended by the decisions documents.

The remedy implemented at SEAD-23 is currently protective of human health and the environment because:

- Residual lead and copper concentrations remaining in the soils have not impacted groundwater at,
 or in the immediate vicinity of the Site above the applicable action levels.
- During ten rounds of groundwater sampling, copper and lead concentrations have not been detected above their RL enough times to perform a meaningful statistical analysis of the historical data thus indicating little to no migration of these COCs into the groundwater.

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- The integrity of the vegetated soil cover overlying interred contaminated soils at the OB Grounds Site was intact and there was no evidence that terrestrial wildlife are exposed or will be exposed to the lead-contaminated soils interred below the 9-inch soil cover.
- The Army will continue to monitor soil cover erosion and will note any instance of cover erosion or exposed native or interred soil.
- Based on evaluation of the groundwater data and the results of the cover inspection, there is no
 evidence to suggest that the OB Grounds may be contributing to the degradation of sediment quality
 in Reeder Creek.
- Field observations noted that the erosion control sandbags previously placed at the OB Grounds to prevent transported soil material from entering the spillways were still working as intended.
- The Army will continue to inspect Reeder Creek for evidence of sediment deposition and if it is
 observed, a sediment sampling and analysis program plan will be prepared, submitted for approval,
 and implemented for Reeder Creek at locations adjacent to the OB Grounds.

The selected remedy is still protective of human health and the environment. No opportunities for optimization or early indicators of potential issues have been identified for SEAD-23. Recommendations for optimization of the LTM program are discussed further in Section 5.4.

5.2 Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy still valid?

Yes. The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy are still valid (**Attachment 3**). There have been no changes in the exposure pathway or changes in the physical conditions of the site since implementation of the remedy that would affect the protectiveness of the remedy.

5.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no new information of significance that would affect the protectiveness of the remedy.

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD for SEAD-23. On-going remedial monitoring activities include periodic evaluations of the effectiveness of the remedy. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. ARARs cited in the RODs remain protective of human health and the environment

5.4 Issues, Recommendations and Follow-Up Actions

No issues were identified for this FYR. Based on the results of the LTM sampling events conducted at the OB Grounds, the Army recommends discontinuing LTM of the groundwater. As presented and summarized above, available monitoring data shows no evidence of total lead or total copper in the groundwater above the cleanup goals subsequent to the completion of the remedial action for the Site. These findings are consistent with the groundwater analytical results obtained during the remedial investigation stage (1990s) of work at the Site, indicating that there is no evidence of groundwater quality deterioration over

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approximately 20 years. Further, the annual inspections of the soil cover have shown minimal evidence of erosion or animal breaching of the protective soil cover.

The examination of spillways connecting the OB Grounds to Reeder Creek indicate that measures performed to eliminate overland soil transport from the OB Grounds to Reeder Creek continue to exist and have been effective, as there is no indication that soil or debris from the OB Grounds is located in the spillways downgradient of the control measures. Finally, the inspection of Reeder Creek indicates that the bedrock that underlies the watercourse adjacent to the OB Grounds continues to be scoured by the perennial flow within the creek. Currently, there is no indication that sediment is being redeposited at locations from which it was previously excavated. Therefore, due to the absence of any evidence that suggests contaminants of concern have been mobilized from the OB Grounds either via the groundwater or overland flow of storm-event waters, and due to the continued scouring of the creek bed by the perennial flow of water, there is no reason to develop or implement a sediment monitoring plan for Reeder Creek at this time.

With mutual agreement of all parties, no further LTM monitoring of the groundwater will occur at the OB Grounds. Soil cover inspections will continue and be performed as part of annual LUC inspections. A review of the results and conclusions from the OB Grounds LTM program will be provided in the third FYR in 2021.

5.5 **Protectiveness Statement**

The remedy implemented for SEAD-23 is protective of the environment and protects human health. The remedy continues to minimize explosive safety hazards. Currently, there are no unacceptable exposures to human or environmental receptors from source area contaminants and none are expected to occur during the next five years.

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ATTACHMENT 3

Cleanup Levels, Toxicity and Risk Evaluation

ATTACHMENT THREE

Cleanup Levels, Toxicity and Risk Evaluation

The effects of significant changes in standards that were used at the time of remedy selection that may impact the protectiveness of the remedy were evaluated as part of the technical assessment of the five-year review at Seneca Army Depot Activity. This was done according to USEPA (2016) guidance as explained in Section 9.0 of the introductory text and Sections 5 of the individual site appendices within this five-year review report.

The first step in this process is determining which COPCs have new or changed standards since the time of the ROD. Cleanup levels for COPCs presented in the ROD were compared to the current potentially applicable federal or state standards. For soils, 6 CRR-NY 375-6.8 (b) Restricted Use Soil Cleanup Objectives (Industrial) for all soil compounds are applicable. Federal regional screening levels (TR=1E-06, HQ=1) (May 2016) for industrial soil were used for comparison or when a state screening level was not available. Current groundwater standards presented include state 6 CRR-NY 703.5 (f) Water Quality Standards for Surface Waters and Groundwater, GA Water Class and federal EPA regional screening levels (TR=1E-06, HQ=1) (May 2016) Maximum Contaminant Level (MCL) values. At sites where sediment was not within a freshwater source (e.g., lake, stream) the values were compared to the soil screening criteria. For OB Grounds (SEAD-23) Reeder Creek sediment, cleanup goals were compared with 6 CRR-NY 375-6.8 (b) Restricted Use Soil Cleanup Objectives (Protection of Ecological Resources) and EPA Region III Freshwater Sediment Screening Benchmarks as this is a recognized freshwater source by NYSDEC. Table A3-1 illustrates the comparison between the ROD cleanup goals and current standards.

The majority of the cleanup goals presented in the site-specific RODs are equal to, or lower, than current state and/or federal standards. Where there are differences (i.e., SEAD 16/17), the ROD cleanup goals were derived risk-based values for carcinogenic PAHs and metals specific to the site. The future use scenario (industrial), receptors, and the exposure pathways have not changed since the ROD was published, therefore the derived risk-based cleanup goals are considered protective.

It should be noted that lead, which was found at elevated levels in soil at both SEAD-16 and SEAD-17, was not considered in the quantitative risk assessment because an allowable reference dose (RfD) is not available. In the absence of a formal quantitative risk assessment for lead, other means were used to determine how to evaluate risk posed by lead in the soils. Based on discussions between the Army and the USEPA and NYSDEC and review of the publication "Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil" (USEPA, December 1996), a value of 1,250 mg/Kg was selected as a cleanup level for the site for future industrial use. It was agreed by all three parties that the 1,250 mg/Kg value would be protective of human health under an industrial scenario. At SEAD-121C, the same lead cleanup level was used, but risk associated with lead in soil were evaluated for the industrial worker using central tendency exposure factors as described in the document above, 2003 revision.

Table A3-1 - Evaluation of Changes in Chemical-Specific Standards
Five-Year Review

Seneca Army Depot Activity

AOC (matrix and units)	COPCs Listed in ROD	Former Standard/Cleanup Goal (in ROD)	Current NYSDEC Cleanup Level†	Current Federal Cleanup Level†	Is there a newly promulgated cleans goal or is the new level more stringen (Y/N)
	PAHs				
	Benzo(a)anthracene	20,4	1.1	2.9	Note 2
	Benzo(a)pyrene	2	1.1	0.29	Note 2
	Benzo(b)fluoranthene	20.4	11	2.9	No
	Benzo(k)fluoranthene	50	110	29	No
	Chrysene	50	110	290	No
	Dibenz(a,h)anthracene	2	1.1	0.29	Note 2
SEAD 16/17 (Soil)	Indeno(1,2,3-cd)pyrene	20.4	11	2.9	Note 2
mg/Kg	Metals				
Note 2	Antimony	29		470	No
	Arsenic	20	16	3	Note 2
	Cadmium	14	60	980	No
	Copper	331	10,000	47,000	No
	Lead	1250°	3,900	800	No
	Mercury	0.54	5.7	46	No
	Thallium	2.6		12	No
	Zinc	773	10,000	350,000	No
	VOCs				
	1,1,1-Trichloroethane	0.8	1,000	36,000	No
	1,1-Dichloroethane	0.2	480	16	No
	Benzene	0.1	89	5.1	No
	Chloroform	0.3	700	1.4	No
SEAD 25	Ethyl Benzene	5.5	780	25	No
(Soil)	Toluene	1,5	1,000	47,000	No
mg/Kg	Trichloroethene	0.7	400	6	No
	Xylene (total)	1,2	1,000	2,500	No
	SVOCs				
	2-Methylnaphthalene	36.4		3,000	No
	Naphthalene	13	1,000	17	No
	Phenol	0.03	1,000	250,000	No
	VOCs				
	1,1,1-Trichloroethane	5	5	200	No
	1,1-Dichloroethane	5	5		No
	1,2-Dichloroethene (total)	5	5	5	No
	Benzene	1	1	5	No
	Chloroform	7	7	80	No
SEAD 25	Ethyl Benzene	5	5	700	No
(Groundwater)	Toluene	5	5	1,000	No
ug/L	Trichloroethene	5	5	5	No
OB/ E	Xylene (total)	5	5	10,000	No
	SVOCs				
	2-Methylphenol	1	**		No
	2,4-Dimethylphenol	1	50		No
	3,3'-Dichlorobenzidine	5			No
	4-Methylphenol	1			No
	Phenol	1	1		No
SEAD 25	SVOCs				
(Sediment)	Benzo(a)anthracene	0.224 or MDL ^b	1.10	2.9	No
mg/Kg	Benzo(a)pyrene	0.061 or MDL ^b	1.10	0.29	No
IIIR/ IVB	Benzo(b)fluoranthene	1.1	11.00	2.9	No

Table A3-1 - Evaluation of Changes in Chemical-Specific Standards Five-Year Review

Seneca Army Depot Activity

		Seneca Army Dep	TO CACHALLY		Is there a newly		
					promulgated cleanu		
		Former			goal or is the new		
AOC		'	Current NYSDEC	Current Federal	level more stringent		
	COPCs Listed in ROD	Standard/Cleanup Goal (in ROD)		Cleanup Level†	(Y/N)		
(matrix and units)	COPCS Listed in ROD	Goal (In ROD)	Cleanup Level†	Cleanup Level	(Y/N)		
SEAD 26							
(Soil)	Total Carcinogenic PAHs	10°			No		
mg/kg					<u> </u>		
	VOCs						
	Benzene	1	1	5	No		
SEAD 26	Ethyl Benzene	5	5	700	No		
(Groundwater)	Xylene (total)	5	5	10000	No		
ug/L	1,2,4-Trimethylbenzene	5	5		No		
	1,3,5-Trimethylbenzene	5	5		No		
	n-Propylbenzene	5	5		No		
	p-Isopropyltoluene	5	5		No		
	VOCs						
	1,1,1-Trichloroethane	d	1,000	36,000			
	Vinyl Chloride	0.2	27	1.7	No		
	1,2-Dichloroethene (total)	0.3	1,000		No		
	Trichloroethene	0.7	400	6	No		
	SVOCs						
	2-Metylnaphthalene	36.4		3,000	No		
	Acenaphthylene	41	1,000	45,000	No		
	Dibenzofuran	6.2	1,000	1,000	No		
	Phenanthrene	50	1,000		No		
	Benzo(a)anthracene	0.22 or MDL ^b	11	2.9	No		
	bis(2-ethylhexyl)phthalate	50		160	No		
Ash Landfill	Benzo(b)fluoranthene	1.1	11	1.8	No		
(Soil)	Benzo(k)fluoranthene	1.1	110	29	No		
mg/Kg	Benzo(a)pyrene	0.061 or MDL ^b	1.1	0.29	No		
	Indeno(1,2,3-cd)pyrene	3.2	11	2.9	Yesi		
	Dibenz(a,h)anthracene	0.014 or MDL ^b	1.1	0.29	No		
	Benzo(g,h,i)perylene	50	1,000		No		
	Pesticides/PCBs						
	Aroclor-1260	1	**	0.99	No		
	Metals			0.55	110		
	Cadmium	1.8 ^e	60	980	No		
	Chromium	26 ^e	6,800	1,800,000	No		
	Copper	25	10,000	47,000	No		
	Lead	500 ^t	3,900	800	No		
	Zinc	89.1	10,000	350,000	No		
	VOCs						
	1,1,1-Trichloroethane	5	5	200	No		
	Vinyl Chloride	2	2	2	No		
	1,2-Dichloroethene (total)	5	5		No		
Ash Landfill	Trichloroethene	5	_5	5	No		
(Groundwater)	Metals						
ug/L	Cadmium	10	5	5	Yes ^{j,k}		
	Chromium	50	50	100	No ^k		
	Copper	200	200	1300	No ^k		
	Lead	25	25	15	Yes ^k		
	Zinc	300	2000		No ^k		

Table A3-1 - Evaluation of Changes in Chemical-Specific Standards Five-Year Review

Seneca Army Depot Activity

AOC (matrix and units)	COPCs Listed in ROD	Former Standard/Cleanup Goal (in ROD)	Current NYSDEC Cleanup Level†	Current Federal Cleanup Level†	Is there a newly promulgated cleanup goal or is the new level more stringent? (Y/N)
OB Grounds [SEAD-23] (Soil and Sediment) mg/Kg	Lead	500	3,900	800	No
OB Grounds [SEAD-23] Reeder Creek	Copper	16	50	31.6 ^g	No
(Sediment) mg/Kg	Lead	31	63	35.8 ^g	No
SEAD-121C (Soil) mg/Kg	Lead ^a	1,250	3,900	800	No ^a
SEAD-121 (Soil) mg/Kg	Iron	100,000		820,000	No
	Manganese	10,000 ^h	10,000	26,000	No

Note 1: Cleanup goals presented in the table originate from the site-specific ROD

Note 2: At SEAD 25/26, soil cleanup goals (CUGs) are derived human health risk-based values. These values are protective of the most conservative receptor under an industrial use scenario, a future construction worker (a daycare facility is prohibited), unless otherwise noted. The CUG values for metals are normalized according to the post-remediation HQ distribution for a future construction worker. Soil CUGs are for surface, subsurface, and ditch soils.

† State soil cleanup goals are from 6 CRR-NY 375-6.8 (b) Restricted Use Soil Cleanup Objectives (Industrial) 11/30/16. State groundwater cleanup goals are 6 CRR-NY 703.5 (f) Water Quality Standards Surface Waters and Groundwater, 11/30/16. Federal soil standards are EPA Regional Screening Levels (RSL) for Industrial Soil. Federal groundwater standards are EPA RSL MCLs. Federal Freshwater standards are EPA Region III Freshwater Sediment Screening Benchmarks (Reeder Creek only).

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- a) This value was derived in accordance with the publication "Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil" (USEPA, December 1996). This publication suggests a range of lead cleanup levels (750 mg/Kg to 1750 mg/Kg) that may result in an acceptable residual risk under an industrial use scenario. Based on discussions held at a BRAC Cleanup Team (BCT) meeting, as well as several correspondences between the Army, NYSDEC, and USEPA, the Army has proposed adopting the midpoint of this range (1250 mg/Kg) as the industrial soil cleanup goal at SEAD-16 and 5EAD-17. b) For semivolatile organic compounds, the minimum detection limit (MDL) was 0.330 mg/Kg.
- c) Carcinogenic PAH (cPAH) human health risk was evaluated using the method approved in USEPA (1993) Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons (USEPA, 2016 https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=49732) in addition to the approach accepted by NYSDEC (NYSDEC, 2006). The Benzo(a)pyrene (BAP) Toxicity Equivalence value was calculated by multiplying the concentration of the individual cPAHs in each sample by the cPAH toxicity factors in the table below (based on USEPA IRIS Database) and summing the results. All of the BAP toxicity equivalence values at SEAD-16 (4 samples) were below one and one sample was 9.01. At SEAD-26 all of the samples (N=45) had a BAP toxicity equivalence below 3.6. Based on the guidance provided above, the cleanup goal of 10ppm is expected to be protective.

Benzo(a)pyrene	1
Dibenz(a,h)anthracene	1
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Indeno(1,2,3-cd)pyrene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.01

Table A3-1 - Evaluation of Changes in Chemical-Specific Standards Five-Year Review

Seneca Army Depot Activity

						Is there a newly
						promulgated cleanup
			Former			goal or is the new
-	AOC		Standard/Cleanup	Current NYSDEC	Current Federal	level more stringent?
1	(matrix and units)	COPCs Listed in ROD	Goal (in ROD)	Cleanup Level†	Cleanup Level†	(Y/N)

- d) Identified in ROD as a COPC, but no cleanup level was assigned to this chemical.
- e) Site background for soil was used.
- f) Site-specific goal.
- g) Federal freshwater standards were used. See note †.
- h) Defined as the 95th UCL of the mean of the dataset. No individual sample to have a concentration above 19,500 mg/Kg.
- i) The EPC for indeno(1,2,3-cd)pyrene in soil was 0.635 mg/Kg and was found to pose no risk to human health or ecological receptors.
- j) The EPC for cadmium in groundwater was 3.09 ug/L and was found to pose no risk to human health.
- k) Elevated turbidty during the RI sampling stage was the cause of the elevated metals concentrations and the reason metals were carried through as COPCs in the ROD. Subsequent to the ROD, quaterly groundwater sampling using EPA low flow methods at the Ash Landfill indicates that metals concentrations are no longer of concern.

"--" Indicates no criteria/MCL or not applicable

ug/L - micrograms per liter

mg/Kg - milligrams per kilogram

AOC - Area of Concern

MCL - Maximum Contaminant Level

ROD - Record of Decision

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ATTACHMENT 4

Regulatory Concurrence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A 625 Broadway, 12th Floor, Albany, NY 12233-7015 P: (518) 402-9625 I F: (518) 402-9627 www.dec.ny.gov

January 30, 2017

Mr. Randy Battaglia BRAC Environmental Coordinator/Caretaker Seneca Army Depot Activity (SEDA) 5786 State Route 96 Romulus, NY 14541-5001

Re: Seneca Army Depot Activity, NY Site No. 850006

Dear Mr. Battaglia:

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the following documents, has no further comments on the documents, and finds them satisfactory.

- Draft Final Five Year Review Seneca Army Depot, SEAD 1, 2, 5, 12, 13, 16, 17, 25, 26, 27, 39, 40, 41, 43, 44A, 44B, 52, 56, 59, 62, 64A, 64B, 64C, 64D, 66, 67, 69, 71, 121C, 21I, 122B, 122E, and the Ash Landfill Operable Unit (SEADs 3, 6, 8, 14, and 15) dated January 2017
- Draft Final UFP-QAPP for Long-Term Monitoring at Seneca Army Depot dated January 2017

If you have any questions or comments, please contact me at melissa.sweet@dec.ny.gov or at (518) 402-9614.

Sincerely

Melissa L. Sweet Project Manager Bureau A, Section C

Division of Environmental Remediation

Meiring J. Swel

cc: J. Vasquez, USEPA

B. Badik, Parsons

M. Sergott, NYSDOH

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