DEPARTMENT OF THE ARMY
NORTH ATLANTIC DIVISION, CORPS OF ENGINEERS
FORT HAMILTON MILITARY COMMUNITY
BROOKLYN, NEW YORK 11252-6700

REPLY TO
ATTENTION OF:

CENAD-PD-IIE

DEC 19 2012

MEMORANDUM FOR COMMANDER, U.S. ARMY Engineer District, New England, ATTN: CENAE-PP-M[redacted] 696 Virginia Road, Concord MA 01742-2751

SUBJECT: Defense Environmental Restoration Program – Formerly Used Defense Sites (DERP-FUDS) Amended Inventory Project Report (INPR) for Property No. CO2NY0025, Addendum-2, FORMER LAKE ONTARIO ORDNANCE WORKS (LOOW), LEWISTON, NY.

1. Reference: CENAE-PP-M, letter dated 21 JUNE 2012, SUBJECT: Defense Environmental Restoration Program – Formerly Used Defense Sites (DERP-FUDS) Amended Inventory Project Report (INPR) for Property No. CO2NY0025, Addendum-2, FORMER LAKE ONTARIO ORDNANCE WORKS (LOOW), LEWISTON, NY.

2. The subject INPR approval is for the amendment to the previous version (Addendum-1 dated 2008) for DERP-FUDS projects at the Former Lake Ontario Ordnance Works (LOOW) in Lewiston, New York. This amendment is developed in accordance with Army policy to develop DERP-FUDS projects which are manageable and can be closed out within a reasonable period of time.

3. The request for approval of the subject INPR Amendment is hereby approved.

4. Please ensure that this determination is entered into the FUDSMIS database and ensure that this project's files are developed and maintained in accordance with the provisions of the FUDS Information Improvement Plan (FIIP).

5. The North Atlantic Division point of contact for this action is [redacted]

Encls

[redacted]
COL, EN
Commanding

CF:
CENAE-PP-M[redacted]

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT CORPS OF ENGINEERS
696 Virginia Road
Concord, MA, 01742-2751

REPLY TO
ATTENTION OF:

CENAE-PP-M

21 June 2012

MEMORANDUM FOR Commander, North Atlantic Division, ATTN: CENAD-PD-IIS-P
[redacted] 302 General Lee Ave, Brooklyn, NY 11252

SUBJECT: Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) Amended Inventory Project Report (INPR) for Property No. C02NY0025, Addendum-2, FORMER LAKE ONTARIO ORDNANCE WORKS (LOOW), LEWISTON, NY

1. This memorandum, including enclosures, comprises an amendment to the previous INPR Addendum-1, dated 2008, for projects at the Former Lake Ontario Ordnance Works (LOOW) in Lewiston, NY. Enclosure 1 is the Revised Property Survey Summary Sheet. Enclosure 2 includes property maps showing locations of the projects on the property. Enclosure 3 includes INPR Addenum-1 approved on 3 March 2008 and the Revised Findings and Determination of Eligibility (FDE) for this property approved on 23 October 2006.

2. There are currently six approved projects (Projects 00, 01, 02, 04, 06 and 07) at LOOW. Five of the six projects are currently active; a site wide Hazardous Toxic and Radioactive Waste (HTRW) project (Project 01), three site specific HTRW projects (Projects 00, 02 and 04); and a site-specific PRP project (Project 07). Project numbers 03, 05, 08 and 09 were utilized in FUDSMIS but the projects were rejected and never created. A second amendment to the INPR for LOOW is recommended in order to revise Projects 00, 01, 02 and 04 and create three new projects (Projects 10 through 12). LOOW is approximately 7,500 acres and is very complex with multiple soil and water investigation areas, numerous property owners and various land uses. All portions of LOOW are in various stages of investigation, mitigation and/or remediation. Breaking up this one large property into smaller projects will enable the Corps to close out portions of the former LOOW while prioritizing further remedial investigations of the remaining portions. Enclosure 4 contains the Project Summary Sheets for the revised and proposed projects.

3. INPR Addendum-2 has been reviewed by Counsel and Real Estate at the Geographic District (LRB) and Counsel at the Project Management District (NAE). Documentation of concurrence is provided in Enclosure 5.

4. I recommend that North Atlantic Division approve the revised (00, 01, 02 and 04) and proposed (10-12) projects.

5. Please contact me directly if I can be of further assistance. Detailed information, desired by your staff, can be obtained by contacting [redacted] or [redacted]

[redacted]

[redacted] COL, EN
Commanding

5 Encls
1. Revised Property Survey Summary Sheet
2. Property Maps (Figures 1-3)
3. 2006 Revised Findings and Determination of Eligibility
4. Revised and Proposed Project Summary Sheets
5. Background Memos and Counsel and Real Estate Concurrence

LOOW INPR Addendum No. 2

Revised Property Survey Summary Sheet

Enclosure 1

(REVISED) PROPERTY SURVEY SUMMARY SHEET
FOR
DERP-FUDS PROPERTY NO. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
LEWISTON, NY
March 2012

PROPERTY NAME: Former Lake Ontario Ordnance Works (LOOW)

LOCATION: The Former LOOW is located in the Towns of Lewiston and Porter, Niagara County, New York, see Location Map; Latitude: 43° 12′ 47″ N, Longitude: 78° 58′ 41″ W, EPA Region II, 26th Congressional District of New York.

PROPERTY HISTORY: The United States Department of Defense (DoD) acquired a total of approximately 7,567-acres in the towns of Lewiston and Porter in Niagara County, New York, at various times and by various methods. The acquisition of this property was for the construction of a trinitrotoluene (TNT)manufacturing facility known as the LOOW from 1941-44. LOOW was built and used from 1941-1944 for the purpose of manufacturing flaked TNT. It consisted of six TNT manufacturing lines (three pairs) with the necessary facilities for the manufacture, recovery, purification, concentration, and mixing of the acid reagents incident to TNT production as well as the disposal of waste materials from processing operations. Operations/wastes from TNT manufacturing were identified as having potentially impacted the land formerly associated with LOOW. Subsequent to the closing of LOOW, additional DoD facilities operated within the former LOOW property. These facilities were identified as the: Northeast Chemical Warfare (NECW) Depot, Air Force Plant (AFP)-38, Model City Igloo Area, , Navy (Interim Pilot Production Plant) IPPP, Air Force Plant (AFP-68), NIKE Missile Battery NF-03/05, Ransomville Test Annex (RTA), and the Youngstown Test Annex (YTA).

PROPERTY VISIT: Several property visits have been conducted on the Former LOOW by USACE personnel as well as government contractors since the original Findings and Determination of Eligibility (FDE) was signed in June 1986.

CATEGORY OF HAZARDS: HTRW, CON/HTRW, MMRP, and HTRW/PRP

PROJECT DESCRIPTION: This INPR amendment revises Project -00, -01, -02, -04 and proposes Projects -10, -11, and -12. There are no changes to Projects -06 or -07. Projects- 03, -05, -08, and -09 were either never defined or approved, and will not be used.

PROJECT-00 – HTRW – Groundwater at Chemical Waste Management LCC. No activities proposed. If an additional groundwater evaluation is considered necessary, then it will be addressed under a PRP/HTRW project. This revised project will be NDAI'd.

PROJECT-01 – HTRW – Site-wide. Hazards in this revised project have either been: (1) resolved with a designation of NDAI, (2) will be addressed under a PRP/HTRW Project-07, or (3) will be included in one of the newly proposed HTRW Projects-10 , -11, or -12. Properties with no known hazards are also included in this revised project and will be NDAI'd.

PROJECT-02 – HTRW – TNT Pipelines (OU-1). This revised project will be NDAI'd.

PROJECT-03– A project with a designation of "Project-03" was never identified, therefore project numeration resumes with Project-04.

PROJECT-04 – HTRW – IRA (Interim Removal Action). This revised project will be NDAI'd.

PROJECT-05 – HTRW – OU-3 (various areas in Town of Lewiston). This project was never approved and it is currently in a pending status in FUDSMIS with a "P" designation. There is not sufficient information to define a project. It will be rejected as a project with an "R" designation in FUDSMIS.

PROJECT-06– CON/HTRW – 11 USTs. Tank removal and subsequent confirmatory sampling recommend no further action. This project will be NDAI'd. This amended-INPR does not address Project-06.

PROJECT-07 – HTRW/PRP – site wide. This project is ongoing and is not addressed in this amended-INPR addendum.

PROJECT-08– MMRP- TNT Manufacturing Area. This project was proposed in INPR Addendum #1 but was not established in FUDSMIS. Subsequent to INPR Addendum #1, a 2010 Archives Search Report (ASR) confirmed that there are no MMRP hazards on site. Therefore, Project-08 is no longer a viable project. This project number will not be revised, re-defined, or re-used.

PROJECT-09– MMRP- NECW Depot Area. This project was proposed in INPR Addendum #1 but was not established in FUDSMIS. Subsequent to INPR Addendum #1, a 2010 Archives Search Report (ASR) confirms that there are no MMRP hazards on site. Therefore, Project-09 is no longer a viable project. This project number will not be revised, re-defined, or re-used.

PROJECT-10 – HTRW – Former LOOW Wastewater Treatment Plant (WWTP)- This amended-INPR proposes new Project-10. This project consists of approximately 21-acres in the central portion of LOOW and adjacent to the western boundary of Niagara Fall Storage Site.

PROJECT-11– HTRW – Occidental Chemical Corporation- This amended-INPR proposes new Project-11. This project consists of approximately 303-acres south of Balmer Road in the central portion of LOOW and adjacent to the western boundary of the Former LOOW Wastewater Treatment Plant.

PROJECT-12 – HTRW –Ground Disturbances- This amended-INPR proposes new Project-12. This project consists of various locations throughout approximately 85-acres in the Developed Area of LOOW.

DETERMINATION

This property has previously been determined mostly recently in the 2006 revised Finding and Determination of Eligibility (FDE) to be eligible for inclusion into the Defense Environmental Restoration Program – Formerly Used Defense Sites, established under 10 USC 2701, et seq. This amended INPR revises four HTRW projects (Projects -00, -01, -02, and -04) and authorizes three new HTRW projects (Projects -10, -11, and -12). Four projects (-03, -05, -08, and -09) will not be used.

Recommendation for Signature

[redacted]

26 Mar 12

Date

LTC, EN
Commanding

[redacted]

28 June 12

Date

[redacted]

COL, EN
Commanding

Approval

[redacted]

19 DEC 12

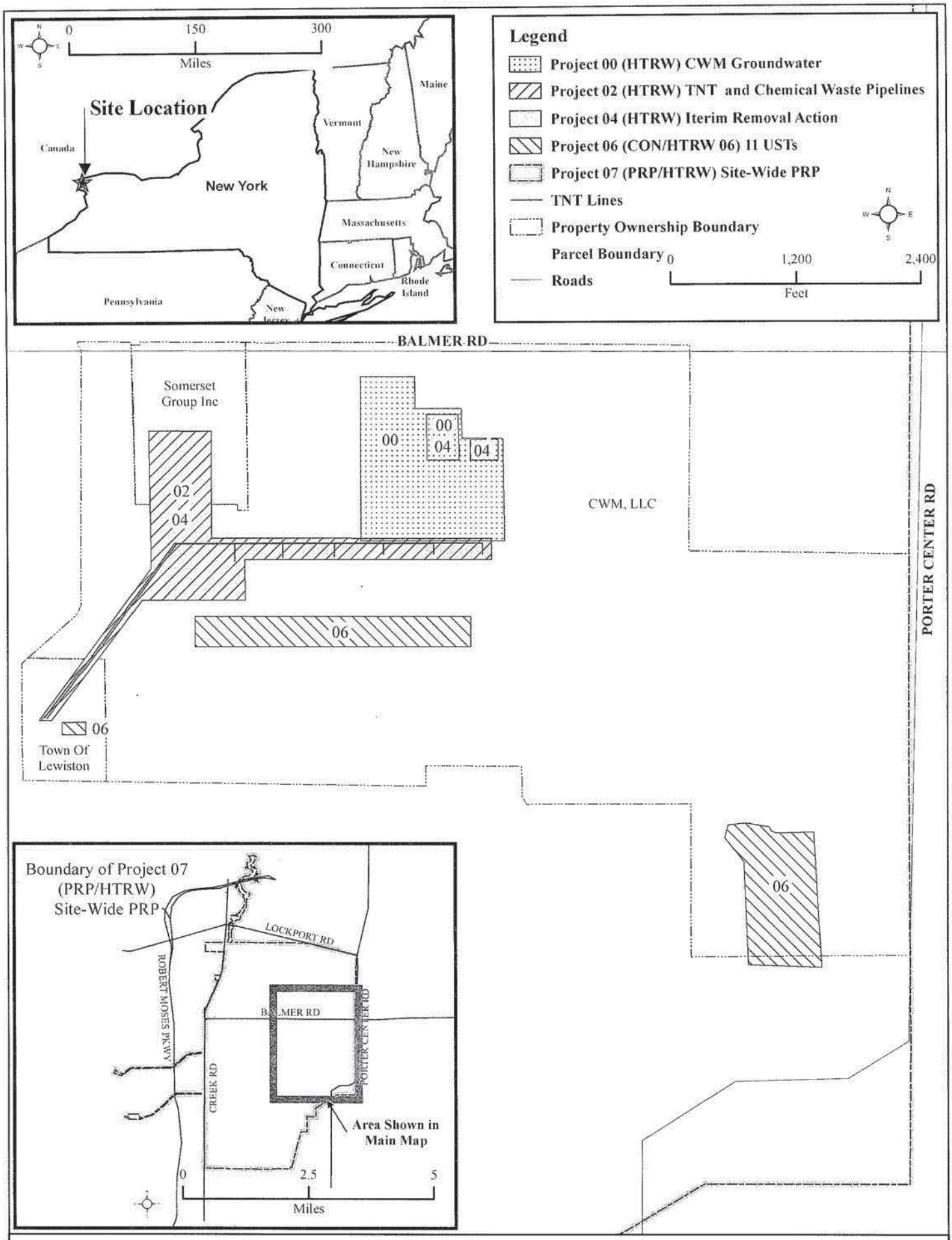
Date

COL EN
COMMANDING

LOOW INPR Addendum No. 2

Figures

Enclosure 2



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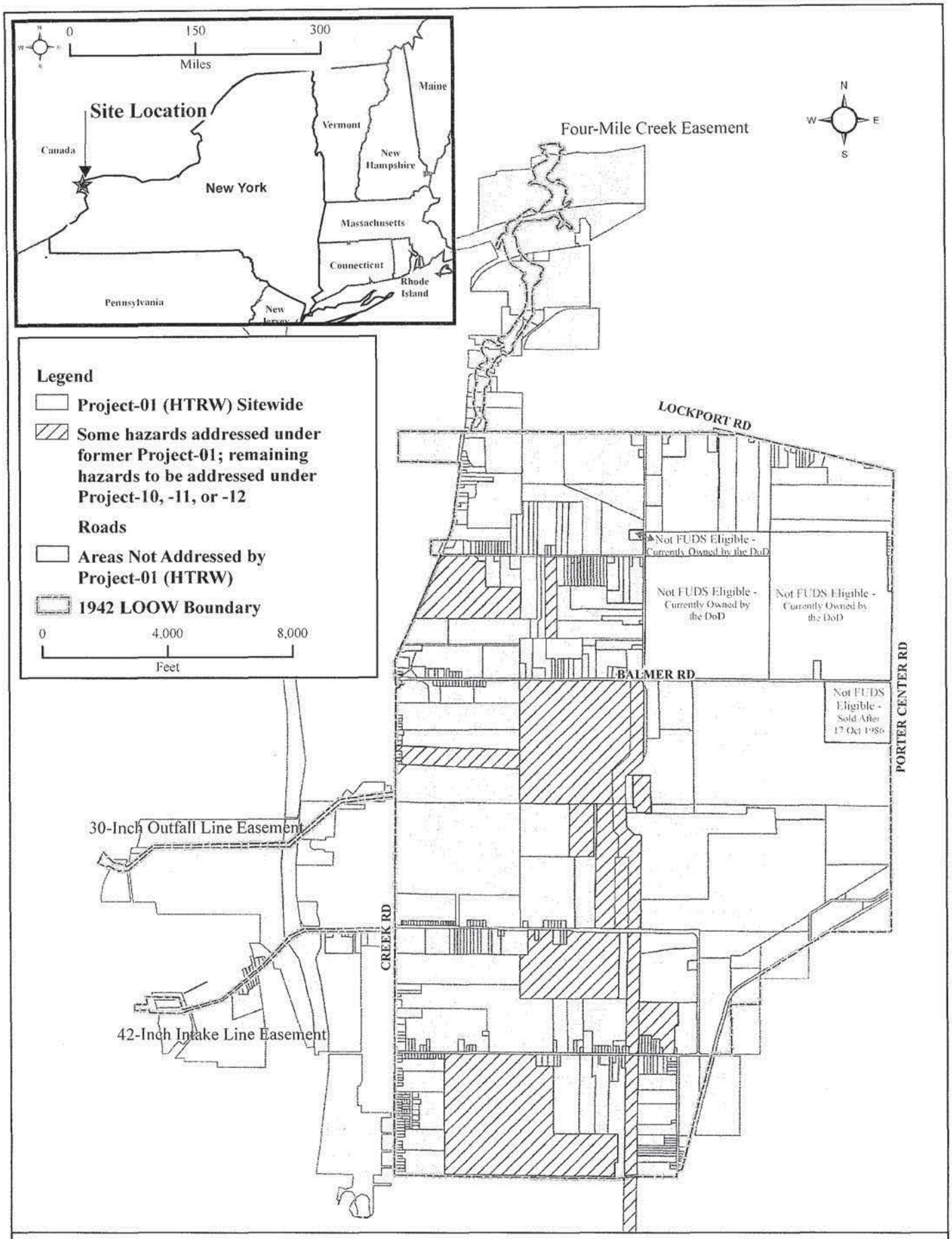
LAKE ONTARIO ORDNANCE WORKS
NIAGARA COUNTY, NEW YORK

Figure 1
Previously Authorized Projects 00, 02, 04, 06, 07



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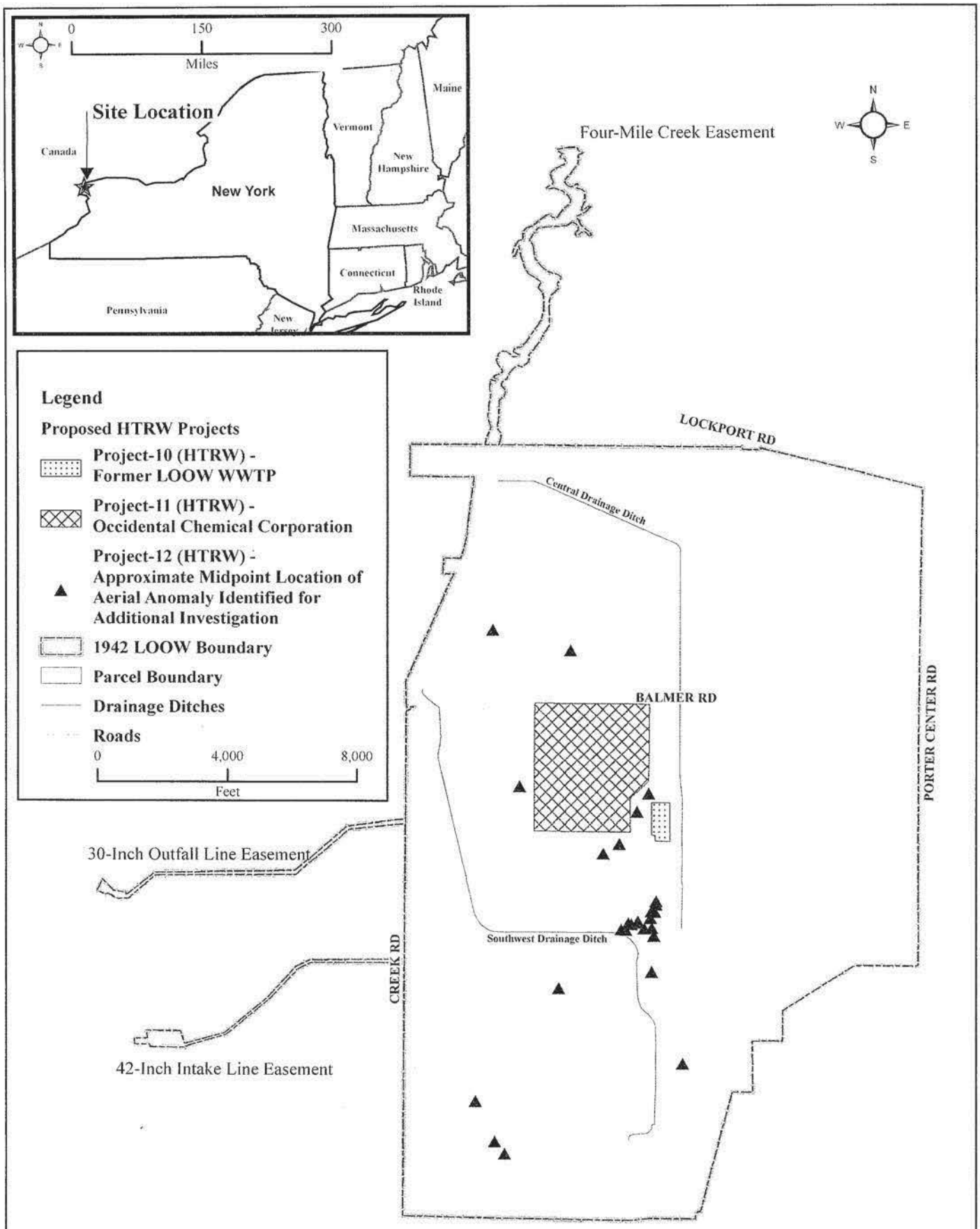
LAKE ONTARIO ORDNANCE WORKS
NIAGARA COUNTY, NEW YORK

Figure 2
Previously Authorized Project-01



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LAKE ONTARIO ORDNANCE WORKS
NIAGARA COUNTY, NEW YORK

Figure 3
Proposed Projects-10, -11, and -12

LOOW INPR Addendum No. 1 (2006)

Enclosure 3

DEPARTMENT OF THE ARMY
NORTH ATLANTIC DIVISION, US ARMY CORPS OF ENGINEERS
FORT HAMILTON MILITARY COMMUNITY
BROOKLYN, NEW YORK 11252-6700

REPLY TO
ATTENTION OF

CENAD-PD-IIS-P

MAR 3 2008

MEMORANDUM FOR Commander, New York District, ATTN: CENAN-PP-E, Jacob K. Javits Federal Building, 26 Federal Plaza, New York, NY 10278-0090

SUBJECT: Addendum-1, Inventory Project Report (INPR) for the former Lake Ontario Ordnance Works (LOOW), Formerly Used Defense Sites (FUDS) Property No. CO2NY0025

1. References:

a. Memorandum, Headquarters, Buffalo District Office, CELRB-DC, subject as above

b. Memorandum, Headquarters, New York District Office, CENAN-PP-E, subject as above

2. The INPR as submitted has been reviewed and has been determined to be sufficient to support inclusion of the following four (4) projects; a PRP/HTRW project to conduct an investigation into responsible parties at the site; a containerized HTRW/CONHTRW project to address eleven underground storage tanks; and, two projects under the Military Munitions Response Program (MMRP) to evaluate the presence of conventional ordinance constituents and the potential for the presence of chemical warfare material.

3. The North Atlantic Division concurs with the findings of the Buffalo District and the New York District and approves these projects to be included as part of the FUDS Program.

4. The point of contact for this action at the North Atlantic Division is [redacted] Program Manager, [redacted]

Brigadier General USA
Commanding

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

REPLY TO
ATTENTION OF

15 October 2007

CENAN-PP-E (200-1a)

MEMORANDUM FOR Commander, North Atlantic Division, ATTN: CENAD-T-HS, Building 301, Fort Hamilton Military Community, Brooklyn, NY 11252-6000

SUBJECT: Addendum-1, Inventory Project Report (INPR) for the former Lake Ontario Ordnance Works (LOOW), Formerly Used Defense Site (FUDS) Property No. C02NY0025

1. Reference CELRB-DC memorandum of 10 Aug 2007, subject as above.

2. Based upon additional site information identified by Buffalo District, four additional projects are recommended under the FUDS Program for the LOOW property, as follows: a Potentially Responsible Party/Hazardous, Toxic and Radiological Waste (PRP/HTRW) project to conduct an investigation into responsible parties at the site; a containerized HTRW (CON-HTRW) project to address eleven underground storage tanks; and, projects under the Military Munitions Response Program (MMRP) to evaluate the presence of conventional ordnance constituents and the potential for the presence of chemical warfare materiel.

3. New York District concurs with the projects recommended by Buffalo District.

4. I recommend that you review this INPR Addendum and provide your approval for further action at this property. A copy of this memorandum and enclosed documentation has been provided to Baltimore District (CENAB-EN-H) and New England District (CENAE-PP-M), who will be assuming the role of Program and Project Management District in FY-08. The point of contact for this action at New York District is [redacted]

2. Encls
1. Referenced Memo
2. INPR Addendum for former LOOW

COL, EN
Commanding

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207-3199

REPLY TO
ATTENTION OF

CELRB-DC

MEMORANDUM FOR Commander, U.S. Army Engineer District, New York and Supervisor of New York Harbor, CENAN, Jacob K. Javits Federal Building, 26 Federal Plaza, Room 2109, New York, New York 10278-0090.

SUBJECT: Addendum-1, Inventory Project Report for the former Lake Ontario Ordnance Works, Formerly Used Defense Site Property No. C02NY0025

1. Forwarded for your review and concurrence is Addendum-1 to the Inventory Project Report (INPR) for the former Lake Ontario Ordnance Works (LOOW), Formerly Used Defense Site (FUDS) Property No. C02NY0025.

2. To date, USACE has investigated the former LOOW under the Hazardous, Toxic, and Radiological Waste (HTRW) project authorized in the original INPR from 1986. Based upon information generated during the HTRW investigation it became evident that additional FUDS projects may be warranted to address other remaining hazards at the site.

3. In accordance with the project eligibility criteria in ER 200-3-1, Addendum-1 to the INPR recommends the authorization of four new projects: a Potentially Responsible Party HTRW (PRP/HTRW) Project, a Containerized HTRW (CON/HTRW) project, a Military Munitions Response Program - Munitions and Explosives of Concern (MMRP-MEC) Project, and a Military Munitions Response Program – Chemical Warfare Materiel (MMRP-CWM) Project. Addendum-1 to the INPR recommends against authorizing a Building Damage / Debris Removal (BD/DR) Project due to a lack of eligible hazards.

4. Addendum-1 to the INPR was prepared under contract by the Baltimore District. It has been reviewed and approved by the Baltimore District Office of Counsel and Design Team Leader and the Buffalo District Office of Counsel and Real Estate Specialist. The MMRP project summary sheets and supporting documentation have been reviewed by the USACE Ordnance and Explosives Center of Expertise. Per ER 200-3-1, the addendum has been reviewed by the New York State Department of Environmental Conservation. A responsiveness summary to the NYSEC comments is included in the addendum package.

5. Subsequent to your review and anticipated concurrence, it is recommended that the addendum package be forwarded to the Commander, North Atlantic Division for approval. We request a copy of the final approved addendum documents for filing in the permanent record file and in the administrative record file.

CELRB-DC
SUBJECT: Addendum-1, Inventory Project Report for the former Lake Ontario Ordnance Works, Formerly Used Defense Site Property No. C02NY0025

6. If you have any questions or comments, please contact the Project Manager for the LOOW site, [redacted]

[redacted]
[redacted] LTC, EN
Commanding [redacted]

Enclosure

DEPARTMENT OF THE ARMY
NORTH ATLANTIC DIVISION, CORPS OF ENGINEERS
FORT HAMILTON MILITARY COMMUNITY
GENERAL LEE AVENUE
BROOKLYN, NY 11252-6700

IN REPLY REFER TO

OCT 23 2006

CENAD-PDD-N

MEMORANDUM FOR COMMANDER, U.S. ARMY ENGINEER DISTRICT, NEW YORK

SUBJECT: Revision of Finding and Determination of Eligibility (FDE) for Site # C02NY0025, Lake Ontario Ordinance Works (LOOW), Formerly Used Defense Site (FUDS), Niagara County, NY.

1. Reference: CENAN-PP-E, letter dated 18 July 2006, SAB.

2. Review of the existing information for this property and the subject FDE indicates that it is apparent that the proposed property addition can be determined to be part of the original property as described in the INPR dated 14 January 1988. It can be concluded that the additional parcels in question are part of the original description, and it was correctly determined that the remaining parcels are ineligible sine they are still under the control of the U.S. Army and the U. S Air Force.

3. Concerns expressed by the New York State Department of Environmental Protection have been reviewed and it is determined that they have been properly satisfied.

4. This request is being treated as a minor change to the FDE and not as an amendment, thus requiring additional determination of eligibility.

5. Please ensure that this determination is entered into the FUDSMIS database and ensure that this project's files are developed and maintained in accordance with the provisions of the FUDS Information Improvement Plan (FIIP). All costs associated with complying with FIIP will be paid for with project funds.

6. The North Atlantic Division point of contact for this action is [redacted]

[redacted]

HTRW Community of Practice

CF:
CENAN-PP-E
CENAD-RIT [redacted]
CELRB-DC

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

18 July 2006

REPLY TO
ATTENTION OF
CENAN-PP-E (200-1a)

MEMORANDUM FOR Commander, North Atlantic Division, Building 301,
ATTN: CENAD-MT-HS, Fort Hamilton Military Community,
Brooklyn, NY 11252-6000

SUBJECT: Revised Finding and Determination of Eligibility (FDE) for Site No. C02NY0025, Lake Ontario Ordnance Works (LOOW) Formerly Used Defense Site (FUDS), Niagara County, New York

1. The purpose of this FDE revision is to comprehensively address the entire LOOW property. Previously, only portions of the entire property were addressed for FUDS Program eligibility. This revised FDE concludes that of 7,567.46 acres representing the total site acreage, 6,503.48 acres are eligible for the FUDS Program. The remaining ineligible parcels, which total of 1,063.98 acres, are still controlled by the U. S. Army and U. S. Air Force.

2. The revised FDE may be found as enclosure 1. Enclosure 2 is the package that we received from the Buffalo District that contained the revised FDE. Review and approval of this revised FDE is requested.

3. The point of contact for this action is [redacted]

[redacted]

2 Encls
1. FDE Revision
2. CELRB Memorandum

COL, EN
Commanding

CF:
CELRB-DC
CENAB-EN-HN

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR
FORMERLY USED DEFENSE SITES
REVISED FINDINGS AND DETERMINATION OF ELIGIBILITY
LAKE ONTARIO ORDNANCE WORKS
FUDS PROPERTY NUMBER C02NY0025
LEWISTON AND PORTER, NIAGARA COUNTY, NEW YORK

FINDINGS OF FACT

This revised Findings and Determination of Eligibility (FDE) is part of Addendum Number 1 to the initial Inventory Project Report (INPR) with the original FDE signed 15 June 1986. This revised FDE addresses the inclusion of certain additional acreage not identified in the original Lake Ontario Ordnance Works (LOOW) INPR, as well as the eligibility of acreage that was part of the original LOOW but had subsequent different uses. Some of these subsequent periods of different use were originally erroneously identified as separate sites and were given their own FUDS property numbers. All documentation regarding the LOOW is hereby consolidated under this LOOW FUDS property number, and the following erroneous separate site numbers are closed out: C02NY0012 (entitled Ransomville Test Annex (RTA) with separate FDE signed 17 December 1992), C02NY0074 (entitled NIKE Battery NF-03 and with separate FDE signed 20 September 1985), C02NY0576 (entitled Air Force Plant # 68 [AFP-68] and with separate FDE signed 3 January 1992, C02NY0005 (Youngstown National Guard Facility an active DOD facility currently known as the National Guard Weekend Training Center [WETS]), and C02NY0003 (Air Force Plant 38 [AFP-38] also currently part of the active DOD facility known as the National Guard WETS).

1. The property consists of approximately 7,567.46 acres (7,453.28 acres fee and 114.18 acres perpetual easement) located in the towns of Lewiston and Porter, Niagara County, New York. The majority of the fee acreage associated with the former LOOW property is bounded to the east by Porter Center Road, to the west by River Road to the south by Swann Road and to the north by Youngstown-Lockport Road. The site is divided by Balmer Road, which runs east-west through the center of the site.

2. Subsequent to the operation of LOOW, additional Department of Defense (DOD) periods of use occurred during which areas within LOOW were renamed as the Northeast Chemical Warfare (NECW) Depot, AFP-38, Model City Igloo Area, Navy Interim Pilot Production Plant (IPPP), AFP-68, NIKE Missile Battery NF-03/05, Youngstown Training Annex (YTA), and the Ransomville Test Annex (RTA). Many of these additional periods of use occurred several years after the original operation of LOOW and after the site had been sold/transferred to other non-DOD parties including the Atomic Energy Commission (AEC) and the War Assets Administration (WAA). However, the subsequent uses did not add any additional acreage to the original LOOW property boundary. The following paragraphs pertain to the acquisition and use of the original LOOW site, as well as the subsequent DOD uses of LOOW. Disposal of the property, and use by parties other than DOD, will be discussed in item 3, below.

LOOW

The Department of the Army acquired a total of 7,567.46 acres (7,453.28 acres fee and 114.18 acres perpetual easement) by various deeds and condemnation proceedings between 1941 and 1944 for the establishment of LOOW. LOOW was a government owned - contractor operated (GOCO) facility built for the purpose of manufacturing flaked trinitrotoluene (TNT). The 114.18 acres perpetual easement included an easement along Four Mile Creek to be used for drainage (79.6 acres), an easement for a 42-in. water

Encl. (1)

intake line from the Niagara River (13.39-acres), and an easement for a sewer discharge house and a 30-in. sewer outfall line to the Niagara River (21.19 acres). The fee acreage included a 12-acre parcel (connected via an easement) used for the construction of a water supply pump house and valve house as well as the main acreage (7,441.28 acres) used for the construction of the ordnance works and a surrounding buffer zone. The facility consisted of approximately 229 buildings/improvements including an acid production area used for the manufacturing of TNT.

NECW DEPOT/ AFP-38/ MODEL CITY IGLOO AREA

Approximately 860 acres located on the north side of Balmer Road were transferred from the USACE-North Atlantic Division, to the U.S. Army Chemical Warfare Service (CWS) in 1944. This acreage contained the former TNT storage structures or "igloos" located on the northern portion of the former LOOW production area. This area was subsequently designated the NECW Depot. The NECW Depot temporarily stored ordnance material prior to shipment to the New York Port of Embarkation.

Between 1950 and 1963, approximately 876.72 acres fee of the original LOOW "igloo area" (including the former NECW Depot) were withdrawn from surplus by USACE and transferred to the U.S. Air Force (USAF) for the establishment and operation of AFP-38. The acreage was acquired in two increments with the majority (863.632 acres) coming from the WAA and the remainder (13.1 acres fee) being transferred back from Federal Farm Mortgage Company (FMMC) to the USAF for use with AFP-38 (as discussed in the LOOW disposal section below under item 3). AFP-38 was also granted approximately 15.08 acres in easements over AEC and Army property associated with the lower portion of the original LOOW site. The easements were associated with rail lines, water lines, electrical lines, and other utilities. AFP-38, also referred to as Bell Test Center AFP-38, was a GOCO facility that was operated by Bell Aircraft Corporation (Bell Textron) from approximately 1954 to 1982 for a variety of purposes, including rocket, missile, and laser research and development (R&D).

In 1955, 8.9 acres within AFP-38 was acquired under use permit by the Army from the USAF. This area was re-designated the Model City Igloo Area. This area was used by the 40th Explosive Ordnance Detachment (EOD) Disposal Unit for the destruction of hand grenades, fireworks, small arms and relatively small caliber high explosive (HE) ammunition by burning or detonation. The site was also reportedly used for the consolidation of liquid fuel components for the NIKE Ajax Rockets prior to shipment to other locations including other Army Depots and Edgewood Arsenal, MD.

NAVY IPPP/AFP-68

Between 1954 and 1957, the Department of the Navy and the USAF acquired approximately 423.62 acres for use in the construction and operation of the Navy IPPP/AFP-68. The acreage acquired included a 388.96-acre right-of-entry from AEC, two no-area use permits from AEC for construction and use of 42-in. and 60-in. water mains, one 2-acre use permit from the Army for powerlines and three use permits from the AEC covering 27.39 acres for powerline easements and a wastewater treatment plant. The acreage included 5.27 acres fee acquired by Declaration of Taking from a private owner. On 26 May 1955, the 388.96 acres occupied by the Navy and USAF under the right-of-entry was declared excess by AEC, and custody for the

acreage was transferred to the GSA. However, accountability remained with AEC. Both the Navy and USAF subsequently requested custody of the property and received approval; however, the property was never transferred to either the Navy or USAF, but rather it continued to be occupied by them under the original right-of-entry granted to the Navy.

The acreage occupied under the four use permits and the right-of-entry was part of the original LOOW industrial area that had been transferred from the Army to the AEC in 1946. The 423.62 acre area was bounded by McArthur Street to the east, "N" Street to the south, West Patrol Road to the west, and Balmer Road to the north. The fee acreage included part of the water intake property acquired for the operation of LOOW and previously disposed of to a private party (as discussed in the LOOW disposal section below under item 3).

The Navy IPPP (referred to as the South Plant) was built in 1956 by Olin Mathieson, as part of a Navy contract to produce a high energy fuel (HEF-2). The Navy IPPP was constructed in/around 38 former LOOW buildings and structures encompassing approximately 9 acres along "M" Street south of the former TNT production area but north of the former acid production area. AFP-68 (also referred to as the North Plant) contained approximately 78 buildings that were constructed across approximately 100 acres located on the western border of the former LOOW TNT production area (the AFP-68 buildings were constructed over the westernmost TNT production line). Both operations (the Navy IPPP and AFP-68) were GOCO facilities constructed and operated by Olin Mathieson under contract to the Navy and USAF, respectively.

NIKE BATTERY NF-03/05

Between 1954 and 1958 the Army requested the use of and subsequently acquired 398.71 acres fee from the AEC for the construction of NIKE Battery NF-03/05. The fee acreage was part of the industrial area of the original LOOW site that had been transferred from the Army to AEC in 1946. This area was to the east of the Navy IPPP and AFP-68 in the east-central portion of the former LOOW TNT production area. This area was also the eastern portion of the land parcel under custody of the AEC. The Army operated NIKE Battery NF-03/05 until 1966. The base consisted of 3 contiguous areas, a Launch Area (along Balmer Road), Control Area (south of the Launch Area) and Housing Area (south of the Control Area). Numerous structures were constructed on the former Control and Launch Areas. A review of available information indicates that no structures associated with the NIKE site were ever constructed on the parcel designated as the Housing Area.

RTA

In 1962, 126 acres fee were transferred by the AEC to the USAF for use as the RTA. By use permit, the AEC reserved/retained 0.69 acres easement for utilities which ran through the property. The RTA site was located along Pletcher Road and it was formerly part of the administration area of LOOW that had been transferred from the Army to AEC in 1946. The site contained a one-story brick building that was used by the USAF as a defense communications research and testing facility. Additional improvements constructed at the site included a transmitting antenna.

3. The following paragraphs pertain to the disposal of the original LOOW, as well as the subsequent disposal actions associated with the other periods of DOD use (NECW Depot, AFP-38/Model City Igloo Area, Navy IPPP/AFP-68, NIKE Battery NF-03/05, and RTA).

LOOW

Accountability for the entire 7,567.46 acres (7,453.28 acres fee and 114.18 acres perpetual easement) was transferred to USACE-North Atlantic Division in 1944. USACE-North Atlantic Division declared the former LOOW surplus to the WAA on 31 March 1945, but USACE continued to hold and dispose of parts of the property. The original disposal of the vast majority of the LOOW property occurred in two main transactions, the first of which involved the buffer zone (5,066.64 acres fee transferred to the FFMC) and the second of which involved the TNT/acid production areas (1,511.02 acres fee along with 34.58 acres sewer and water easements transferred to the AEC). The remainder of the site (875.62 acres fee and 79.6 acres easement) continued to be held for USACE until it was ultimately transferred or disposed of. The transfer/disposal is discussed below.

The buffer zone outside the TNT production and igloo storage areas, containing approximately 5,066.64 acres fee (according to USACE real estate maps), was transferred to the FFMC on 30 October 1945. Between 1945 and 1950 FFMC subdivided and conveyed approximately 5,050.03 acres to numerous owners. Most of these parcels currently contain residences, businesses, and a school. Accountability for 13.1 acres fee (of the 5,066.64 acres transferred to FMMC) was re-assumed by the Army on 6 July 1951 and transferred to the USAF on 3 November 1954. The 13.1 acres fee subsequently became part of AFP-38 (the acreage is included in the 876.72 acres of AFP-38) and the disposal of this acreage is discussed below. The remaining 3.51 acres fee was not accounted for in FFMC disposal documents. It is assumed that this difference is due to a resurveying of the parcels that were conveyed by FMMC.

On 31 December 1946, 1,545.6 acres (1,511.02 acres fee along with 34.58 acres sewer and water easements) was transferred to the AEC. This area included the former LOOW TNT/acid production areas, sewage and wastewater treatment plant, as well as the concrete reservoir and fresh water treatment plant. The AEC, a non-DOD entity and successor to the Manhattan Engineer District (MED), used portions of the site for the storage of radioactive wastes. The 1,511.02 acres fee ultimately had several subsequent uses over the years including non-DOD use as the Lake Ontario Storage Area (LOSA), Niagara Falls Storage Site (NFSS) and the Boron 10 Production Plant. Portions of this acreage also had subsequent DOD uses including NIKE Battery NF-03/05, YTA, RTA, and AFP-68/Navy IPPP as previously discussed. Disposal actions associated with the additional DOD periods of use are discussed below.

The remaining 955.22 acres that had been declared excess by USACE in 1945 (875.62 acres fee and 79.6 acres perpetual easement associated with Four Mile Creek) continued to be held by USACE-North Atlantic Division. The property was excessed to WAA on 20 October 1947. No disposal information was found for the remaining 79.6 acres easement along Four Mile Creek. It is assumed that this acreage is still owned by the Army and held by General Services Administration (GSA), the successor to the WAA. A

portion of the excessed fee property, consisting of 12 acres fee which housed the fresh water intake pump and valve house, was subsequently disposed of by WAA to Evelyn R. Lord by Quitclaim Deed dated 24 April 1950. The remaining portions of the site were held by WAA until they were subsequently reacquired by other DOD components (as previously discussed). Disposal actions/ownership history relating to the additional DOD periods of use including NECW Depot, AFP-38, and the Model City Igloo Area are discussed below.

NECW DEPOT/ AFP-38/ MODEL CITY IGLOO AREA

As of May 1946, munitions had been disposed of off-site, and remaining supplies at the NECW Depot consisted of surplus property and depot property. Use of the depot was discontinued on 30 June 1946, and the 860 acres of the depot were subsequently declared excess by CWS and transferred back to USACE.

In 1979, the USAF began disposing/transferring the acreage associated with the former AFP-38/Model City Igloo Area. On 31 January 1979, the USAF transferred the western half of AFP-38, 346.86 acres (331.78 acres fee and 15.08 acres easement, which included the Model City Igloo Area that was being occupied under use permit), back to the Army. The 15.08 acres easement included 6.56 acres for a railroad easement and 4.36 acres for utilities across the AEC property. These 346.86 acres were subsequently leased from the Army on an unknown date (after January 1979) by the Army National Guard. The site became known as the Army National Guard Weekend training site (WETS). On 29 April 1985, 3.35 acres of the former AFP-38 was conveyed by quitclaim deed to the Town of Porter. This area currently contains water storage facilities used by the Town of Porter. On 24 August 1992, the USAF transferred 528.89 acres fee of the former AFP-38 to the Army for expansion of the WETS. The 528.89 acres reportedly included acreage associated with the former LOOW North Patrol Road and a strip of land north of the North Patrol Road. The Army National Guard continues to use 879.1 acres (864.02 acres fee and 15.08 acres rail and utility easements) for training purposes. An acreage difference of 12.7 acres fee was found between the historical disposal information and the tax maps (876.72 acres fee were acquired and 864.02 acres fee were sold/transferred) for AFP-38. This difference in acreage is attributed to resurveying efforts and the transfer of the underlying interest in Balmer Road.

NAVY IPPP/AFP-68

On 31 July 1962, the USAF declared 5.27 acres fee (which included the former water intake pump and valve houses acquired by the USAF) excess to its needs. By letter dated 17 September 1962, the USAF declared the remaining 418.35 acres of the Navy IPPP/AFP-68 excess. This letter also served to relinquish USAF's interest in the site, which included the 388.96-acre right-of-entry (this interest had been transferred from the Navy to the USAF on an unknown date), the two no-area use permits (covering construction and use of a 42-in. and a 60-in. water main), and the three use permits covering 27.39 acres (for the wastewater treatment plant and two powerline easements). The acreage was relinquished to AEC. On 25 October 1962, the remaining 2-acre use permit was cancelled by the USAF and use of the area returned back to the Army. GSA conveyed the

5.27-acre fee parcel to the Town of Lewiston on 20 February 1967. By Quitclaim Deed dated 28 July 1966, GSA conveyed 564.74 acres fee (including a majority of the 418.35 acres associated with the former AFP-68 and the Navy IPPP) to the Fort Conti Corporation. This acreage included 211.09 acres associated with the Control and Housing Areas of NIKE Battery NF-03/05 (as discussed below). The deed reserved to the AEC approximately 11.22 acres easement (7.9 acres for drainage through the Central Drainage Ditch and 3.32 acres for utilities). The deed also reserved 10.92 acres easement to the USAF for AFP-38 (6.56 acres for a railroad easement and 4.36 acres for utilities as previously discussed in the AFP-38 section above). The AEC also retained the wastewater treatment plant until a later date when it was disposed of.

NIKE BATTERY NF-03/05

On 2 May 1960, the Army reported 89 acres (of the 398.71 acres fee acquired for the NIKE site) excess to the GSA, and by Quitclaim Deed dated 4 May 1961 the 89 acres fee was transferred to the Town of Lewiston. The deed reserved a railroad easement of 6.66 acres to the United States for AFP-38. By Quitclaim Deed dated 28 July 1966, 564.74 acres fee, including 211.09 acres associated with the former NIKE Battery NF-03/05, were conveyed to the Fort Conti Corporation. The deed reserved 6.66 acres easement for AFP-38. The remaining acreage (98.62 acres) and buildings associated with the former NIKE Battery NF-03/05 Launch Area were transferred to the USAF on 16 September 1966. This area became known as the Youngstown Training Annex (YTA) and currently this site (98.62 acres fee and 6.66 acres easement) is still owned by the USAF.

RANSOMVILLE TEST ANNEX

On 8 July 1976, the 126.0 acres fee was transferred from the USAF by Secretarial Transfer to the U.S. Department of Labor.

DETERMINATION

Based on the foregoing Findings of Fact, the entire property identified as LOOW and containing 7,567.46 acres (7,453.28 acres fee; 114.18 acres easement) has been determined to have been under the jurisdiction of the Secretary of Defense and owned by, leased to, or otherwise possessed by the United States prior to 17 October 1986. A portion of the LOOW consisting of 6,503.48 acres (6,468.90 acres fee; 34.58 acres easement associated with the an easement for a 42-in. water intake line from the Niagara River and an easement for a sewer discharge house and a 30-in. sewer outfall line) is eligible for inclusion in the Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) established under 10 USC 2701 et seq. The remaining portion of the LOOW is ineligible for inclusion into the DERP-FUDS, because these parcels, consisting of 1,063.98 acres, are under the jurisdiction of DOD components (864.02 acres fee and 15.08 acres easement [existing over fee acreage] associated with the National Guard WETS; 98.62 acres fee and 6.66 acres easement [existing over fee acreage] associated with the USAF's YTA; and 79.6 acres easement along Four Mile Creek used for drainage associated with LOOW and still owned by the Army).

Recommend for Signature

18 July 2006
Date

[redacted]
COL, EN
Commanding

Approval

Date

[redacted]
MG, USA
Commanding

Note: Division Commander [redacted] unavailable to sign. Revised 2006 FDE packet was subsequently approved along with INPR Addendum No. 1 and signed in March 2008 by incoming Division Commander [redacted]

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207-3199

REPLY TO
ATTENTION OF

CELRB-DC

MEMORANDUM FOR Commander, U.S. Army Engineer District, New York and Supervisor of New York Harbor, CENAN, Jacob K. Javits Federal Building, 26 Federal Plaza, Room 2109, New York, New York 10278-0090.

SUBJECT: Revised Findings and Determination of Eligibility for the former Lake Ontario Ordnance Works, Formerly Used Defense Site Property No. C02NY0025

1. Forwarded for your approval and signature is the Revised Findings and Determination of Eligibility (FDE) for the former Lake Ontario Ordnance Works (LOOW), Formerly Used Defense Site (FUDS) Property No. C02NY0025 (Attachment-1).

2. The revised FDE amends the original FDE signed 15 June 1986. The original FDE and several subsequent Inventory Project Report (INPR) documents did not adequately capture all eligible properties at the LOOW site. The revised FDE documents the property eligibility for the entire former LOOW into the DERP-FUDS program.

3. The revised FDE evaluated the acreage of the entire former LOOW site (7,567.46 acres). The total acreage consists of 7,453.28 acres fee and 114.18 acres easement. A summary of the DERP-FUDS property eligibility findings and determinations is provided below:

	Total	Fee	Easement
• Total Acreage	7,567.46	7,453.28	114.18
• DERP-FUDS Eligible Acreage	6,503.48	6,468.90	34.58
• DERP-FUDS Ineligible Acreage	1,063.98	962.64	101.34

The ineligible acreage is defined as follows:

	Total	Fee	Easement
• US Army Property (Licensed To New York Army National Guard)	879.10	864.032	15.08
• US Air Force Property (Youngstown Test Annex)	105.28	98.62	6.66
• US Army Easement (Four-Mile Creek, 1942)	79.60	0.00	79.60

3. The revised FDE was prepared under contract by the Baltimore District and has been reviewed and approved by their Design Team Leader (Attachment-2). The FDE has been reviewed and approved by the Buffalo District's Office of Counsel and Real Estate Specialist. Per ER 200-3-1, the revised FDE has been reviewed by the New York State Department of Environmental Conservation. A copy of their comment and the USACE response is provided at Attachment-3.

Encl (2)

CELRB-DC
SUBJECT: Revised Findings and Determination of Eligibility for the former Lake Ontario Ordnance Works, Formerly Used Defense Site Property No. C02NY0025

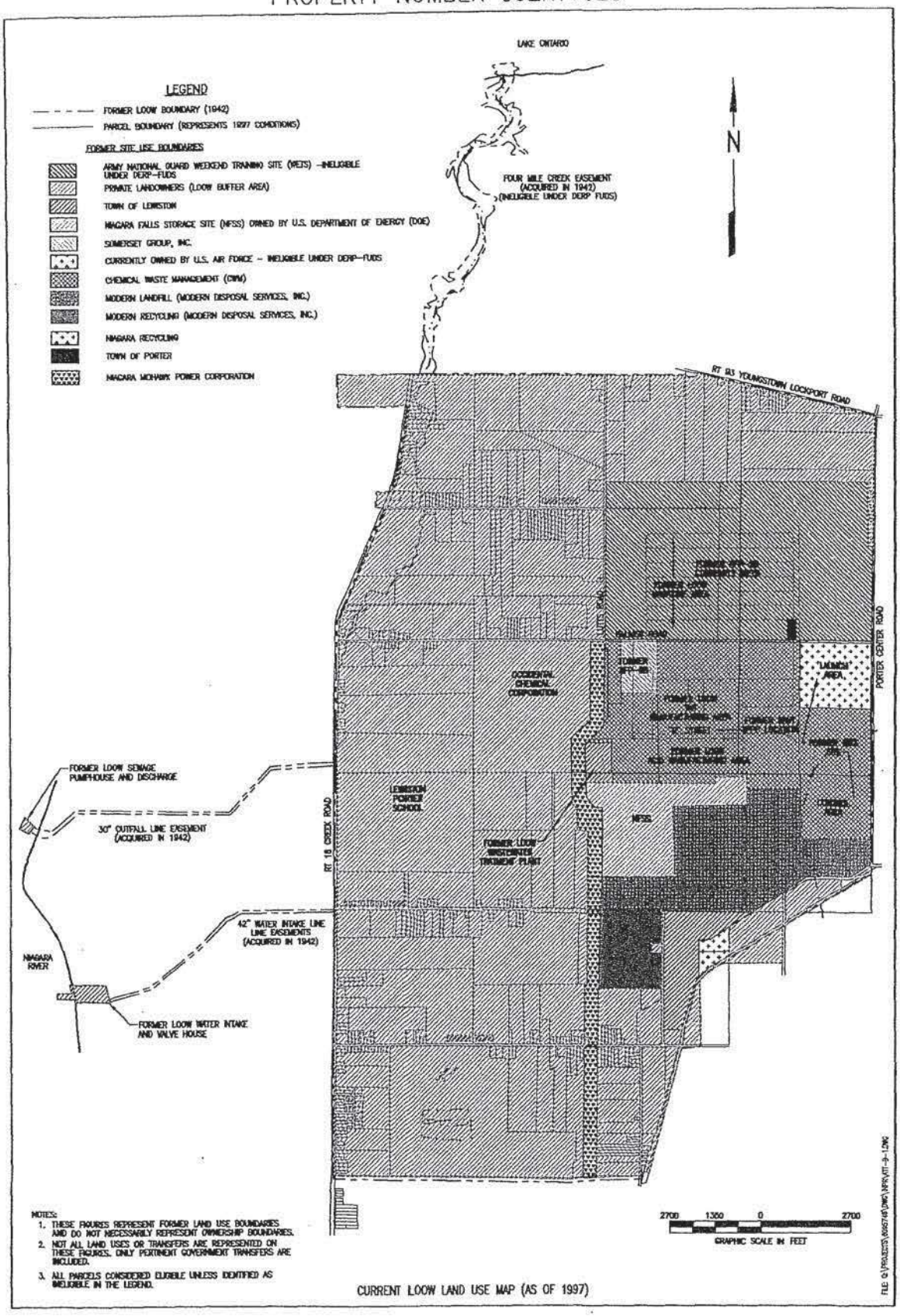
4. Recommend you approve, sign, and forward the revised FDE to the Commander, North Atlantic Division for approval and signature. We request a copy of the signed FDE for filing in the permanent record file and in the administrative record.

5. If you have any questions or comments, please contact the Project Manager for the [redacted]

[redacted]
LTC, EN
Commanding

Enclosures
1. Revised FDE
2. NAB Transmittal Letter
3. NYSDEC Comment and USACE Response

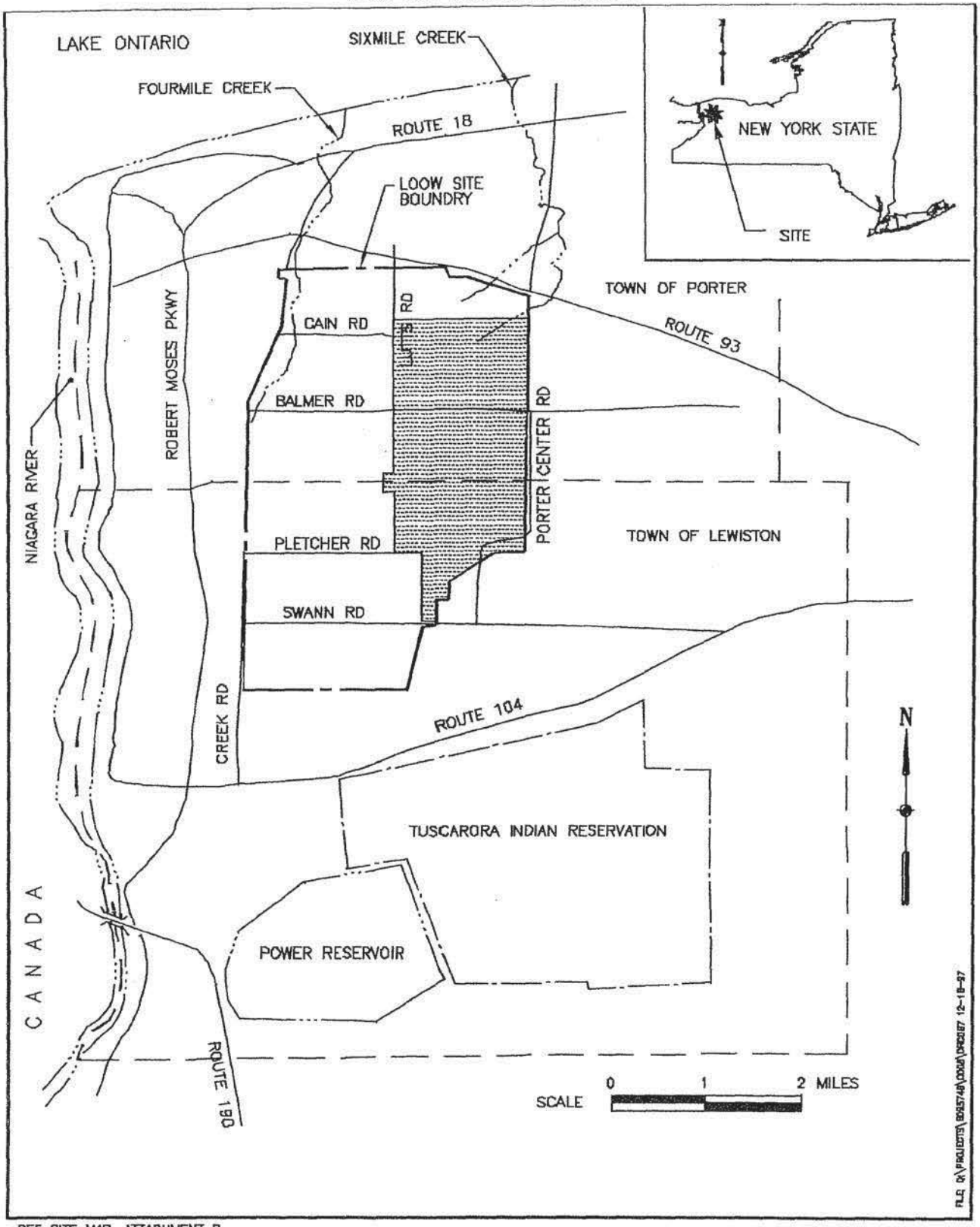
ATTACHMENT B-1
SITE MAP
LAKE ONTARIO ORDNANCE WORKS
PROPERTY NUMBER C02NY0025



NOTES:
1. THESE FIGURES REPRESENT FORMER LAND USE BOUNDARIES AND DO NOT NECESSARILY REPRESENT OWNERSHIP BOUNDARIES.
2. NOT ALL LAND USES OR TRANSFERS ARE REPRESENTED ON THESE FIGURES. ONLY PERTINENT GOVERNMENT TRANSFERS ARE INCLUDED.
3. ALL PARCELS CONSIDERED ELIGIBLE UNLESS IDENTIFIED AS INELIGIBLE IN THE LEGEND.

CURRENT LOOW LAND USE MAP (AS OF 1997)

ATTACHMENT A
LOCATION MAP
LAKE ONTARIO ORDNANCE WORKS
PROPERTY NUMBER C02NY0025



SEE SITE MAP, ATTACHMENT B

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MARYLAND 21203-1715

March 8, 2006

REPLY TO
ATTENTION OF
CENAB-EN-HN

MEMORANDUM FOR Buffalo District, Army Corps of Engineers, ATTN: CELRB-PP
[redacted] 1776 Niagara Street,Buffalo, NY 14207-3199

SUBJECT: Revised Findings and Determination of Eligibility (FDE) for Lake Ontario Ordnance Works (LOOW), Formerly Used Defense Site (FUDS) Property No. C02NY0025.

1. Forwarded for your review and further dissemination is a Revised Findings and Determination of Eligibility (FDE) for Lake Ontario Ordnance Works (LOOW), Formerly Used Defense Site (FUDS) Property No. C02NY0025. The revised FDE amends the original FDE signed 15 June 1986. Key revision includes certain additional acreage not identified in the original LOOW Inventory Project Report (INPR).

2. Acreage evaluated for eligibility as a FUDS property consists of approximately 7,567.46 acres (7,453.28 acres fee and 114.18 acres perpetual easement) located in the towns of Lewiston and Porter, Niagara County, New York. Based on the enclosed Findings of Fact, a portion of the LOOW consisting of 6,503.48 acres is determined to be FUDS eligible.

3. Baltimore District technical staff and Office of Counsel and Real Estate Divisions have performed a technical, legal and real estate review and concur with the revised FDE. If you have any questions, please contact [redacted]

Encl

[redacted]
Chief, Civil Hazardous, Toxic, Radiological
Waste (HTRW) Section,
HTRW Branch, Engineering Division

CF

USACE Responses to Comments
New York State Department of Environmental Conservation (NYSDEC) Review
of
Draft Addendum-1 to Inventory Project Report
Findings and Determination of Eligibility (FDE)

COMMENT #	PAGE	COMMENT	RESPONSE	OPEN / CLOSED
12	Page 7	Determination: The Department does not understand why properties which the Federal Government holds an easement are not eligible for inclusion into DERP-FUDS.	1) DERP-FUDS property eligibility (ER 200-3-1 para 3-1.5.3.12) states that properties still under the jurisdiction of the DoD are categorically excluded from the FUDS program. 2) USACE concludes, based upon our search of real property records, that the Four Mile Creek easement is still under the control of the US Army because no documentation exists showing the US Army relinquished the easement. 3) While the current private property deeds along Four Mile Creek make no mention of an easement with the US Army along Four Mile Creek, we cannot conclude the easement was actually relinquished - it is possible errors were made on deeds regarding the easement. With regards to the Findings of Determination and Eligibility, USACE considers the question of property eligibility for the Four Mile Creek easement to be closed. 4) Despite this conflict in historical records and the ineligibility of the Four Mile Creek easement as a FUDS property, USACE is authorized to address potential DoD contamination migrating from an eligible FUDS property to an ineligible FUDS property. 5) USACE has conducted sediment sampling in the portion of Four Mile Creek (upstream of the ineligible easement) in the Phase I Remedial Investigation. USACE has the authority to address remaining questions on potential DoD contamination of Four Mile Creek (including the ineligible easement) through the eligible DERP-FUDS projects.	CLOSED

MEMORANDUM FOR RECORD

SUBJECT: Revised Findings and Determination of Eligibility (FDE), Defense Environmental Restoration Program – Formerly Used Defense Sites (DERP-FUDS), Lake Ontario Ordnance Works (LOOW), Niagara County, New York

DATE: 10 Aug 06

This memorandum for the record documents that I reviewed the revised FDE for the LOOW (attached). The revised FDE, as submitted by the Buffalo District Commander on 30 March 2006 is legally sufficient.

[redacted]

District Counsel [redacted]

This memorandum for the record documents that I reviewed the revised FDE for the LOOW (attached). The revised FDE as submitted by the Buffalo District Commander on 30 March 2006 satisfies USACE real estate requirements.

[redacted]

Real Estate Officer

Attachment:
LOOW-FDE and Staff Coordination Sheet – March 2006

LOOW INPR Addendum No. 2

Revised Project Summary Sheets

Enclosure 4

(REVISED) PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-00
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **Chemical Waste Management LLC - Groundwater** -This revised HTRW project was previously referred to as "Chemical Waste Management (CWM), Limited Liability Corporation (LLC)". This revised project will address local groundwater at CWM. The project location is illustrated in Enclosure 2 (Figure 1).

Project-00 was authorized in 1987 to address groundwater associated with specific areas of concern (referred to as operable unit [OU]-1) located on property owned by Chemical Waste Management LLC (currently known as CWM Chemical Services Inc.). OU-1 has been described as including the following areas of concern: Areas A, B, C, D, Area North of C, the Wooded Area, and TNT and acid waste lines. Areas A, B, C, D, Area North of C, and the Wooded Area were suspected to be former DoD disposal areas associated with AFP-68 (a DoD facility that operated on the LOOW FUDS subsequent to the closing of LOOW).

The USACE has conducted PA, SI, and RI activities for the hazards addressed by HTRW project C02NY0025-00 in accordance with the CERCLA process (Acres 1992, EA 1998, EA 1999, EA 2002, EA 2008). Groundwater contamination from chloroform and carbon tetrachloride was found near Area D and the Area North of C; however, remediation was initiated by the property owner (CWM LLC) near Area D in 1995 (Chemical Waste Management LLC well P1202S) resulting in the USACE policy decision to eliminate groundwater in the vicinity of Area D from further consideration under the HTRW project.

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

POLICY CONSIDERATIONS: The USACE has made the policy decision to eliminate groundwater from further consideration under this HTRW project due to initiation of remediation of groundwater by the current property owner in the vicinity of Area D, and other investigation results that suggest groundwater in other areas may have impacts from non-DoD site use.

PROPOSED ACTIVITIES: No activities are proposed. Enough information has been collected to substantiate an NDAI determination.

(REVISED) PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-01
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **Sitewide** - This revised HTRW project summary sheet is currently described as "Site Wide", this project has also been previously referred to as "Site Wide RI and Contaminated Buildings". The project location is illustrated in Enclosure 2 (Figure 2).

Numerous investigations were completed or are ongoing under this site-wide project, including PA (Acres 1992), SI (EA 1998), and RI (EA 1999, EA 2002, EA 2008) efforts. These efforts have identified HTRW hazards requiring various levels of response. Several hazards included in HTRW Project-01 have been sufficiently evaluated through the CERCLA process such that a finding of NDAI has been reached. These hazards include: small-bermed clearings (SBCs), the 42-inch intake line, the 10-in drinking water line, the 30-inch outfall, the former LOOW receiving area and administrative area, slurry pond, transportation center, and the freshwater pumphouse. Other hazards included in HTRW Project-01 have been evaluated, and determined to have environmental impacts potentially attributable to both DoD and non-DoD entities. These hazards include man-made ditches and natural water courses. They will not be evaluated further under a HTRW project, but if necessary, may be included under the PRP/HTRW Project-07.

Some hazards identified during PA, SI, and RI efforts conducted under HTRW Project-01 require additional evaluation. The additional evaluation of these hazards will be conducted under newly proposed HTRW Projects -10 through -12. Additionally, a large portion of the LOOW Undeveloped Area have no known hazards and will not be evaluated further. These parcels are listed by parcel tax identification number in the table below.

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

POLICY CONSIDERATIONS: There are no policy considerations that prevent the clarification of this HTRW project.

PROPOSED ACTIVITIES: The hazards included in Project-01 have either been resolved and will be NDAI'd, or will be further addressed, if necessary, under a PRP/HTRW project, or will be included in one of the newly proposed HTRW Projects -10 through -12. The proposed activity for HTRW Project-01 is the initiation of the project closure process for parcels listed in the tables below.

REVISED PROJECT SUMMARY SHEET (continued)
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-01

Parcel Group Code[1]	Parcel Tax Identification Number[2]				HTRW Project Per INPR Addendum 2
01: PostOct86Trans/ SthprtRailTrnLLC-P1	61.00-2-2				FUDS Ineligible
01: USACE- P1 - Dod-WETS	60.00-1-12	60.00-1-13	60.00-1-15	61.00-1-32.1	FUDS Ineligible
02: LwstnTown - P2	74.00-1-11.1				01
02: LwstnTown - P4	74.00-1-53				01
	60.00-3-11				01, 10
02: ModernAffCo - P2	74.00-1-11.2	75.00-1-1	75.00-1-2.2		PRP Eligible
02: PorterTown - P2	61.00-1-32.2				01
02: SomersetGrp - P1	60.00-3-9.1				01[3]
02: USA_LakeOntOrd - P1	74.00-1-8.1				01[4]
02: WMLLC - P1	60.00-3-7 60.00-3-8	60.00-3-9.2 61.00-2-1	74.00-1-6 74.00-1-7	75.00-1-2.1	PRP Eligible
03:SpecCons-Occidental	60.00-3-5				01, 11
03:SpecCons-School	60.00-3-12	74.00-1-1			01
04-1: SupprtFcltyLOOW Administrative Offices	88.00-1-41				01, 12
04-1: SupprtFcltyLOOW Slurry Pond	74.00-1-4				01, 12
	74.00-1-50				01
04-1: SupprtFcltyLOOW Transportation Center	74.00-1-12	74.00-1-13.1			01
04-2: Group R	60.00-3-6				01, 12
04-3: Group P	74.00-1-20 74.00-1-22 74.00-1-23 74.00-1-24 74.00-1-25 74.00-1-26.1 74.00-1-26.21	74.00-1-26.22 74.00-1-27 74.00-1-29 74.00-1-30 74.00-1-31 74.00-1-32	74.00-1-33 74.00-1-34 74.00-1-35 74.00-1-36 74.00-1-45.2 74.00-1-46	74.00-1-47 74.00-1-48 74.00-1-49 74.00-1-54 74.00-1-55 74.00-1-56	01
04-4: Group N	46.00-2-37 46.00-2-38 46.00-2-40.2 60.00-1-3 60.00-1-4 60.00-1-40	60.00-1-41.2 60.00-1-5.2 60.00-1-57 60.00-1-59 60.00-1-60 60.00-1-61.2	60.00-1-62.2 60.00-1-64 60.00-2-44.11 60.00-2-44.12 60.00-2-51 60.00-2-52	60.00-2-55 60.00-2-57 60.00-2-59.1 60.00-2-59.2 60.00-2-75	01
	60.00-2-9				01, 12
04-5: Group L	60.00-1-16 60.00-1-17	60.00-1-18 60.00-1-6	60.00-1-8		01
04-6: Group K	60.00-3-1.111 60.00-3-1.112 60.00-3-18.111	60.00-3-22 74.00-1-14 74.00-1-44	88.00-1-40 88.00-1-42	88.02-1-17 88.02-1-41	01
	60.00-3-18.12	74.00-1-15.1			01, 12
04-8: Group I	47.03-1-29 47.03-1-30 47.03-1-32	47.03-1-40 60.00-1-10 60.00-1-11.1	60.00-1-11.2 60.00-1-9	61.00-1-1 61.00-1-34.1	01
04-9: TEC Group B	60.00-1-19.1 60.00-1-20.11 60.00-1-20.12 60.00-2-22 60.00-2-25.11 60.00-2-26.2 60.00-2-29.111 60.00-2-29.112	60.00-2-29.2 60.00-2-29.3 60.00-2-29.6 60.00-2-30 60.00-2-32 60.00-2-33 60.00-2-35 60.00-2-37	60.00-2-38 60.00-2-39 60.00-3-4.111 61.00-1-67.1 74.00-1-10 74.00-1-9 75.00-1-3	75.00-1-40 88.00-1-1.2 88.00-1-47.12 88.00-1-7 88.00-1-8.1 88.00-1-9.1 88.00-1-9.2	01
	88.00-1-46.1	88.00-1-5			01, 12
04-9: TEC Group C	74.00-1-3				01, 12
04-9: TEC Group D	75.00-1-42				01
	60.00-2-17				01, 12
05: LandUse Group A01	46.00-2-27.1 46.00-2-27.2 46.00-2-29 46.00-2-30 46.00-2-39.1 46.00-2-39.2	60.00-3-14 60.00-3-15 60.00-3-16 60.00-3-17 60.00-3-18.2 60.00-3-19.1	88.00-1-26.2 88.00-1-26.3 88.00-1-27 88.00-1-28 88.00-1-29 88.00-1-30	88.02-1-15 88.02-1-16 88.02-1-18 88.02-1-19 88.02-1-20 88.02-1-21	01

Parcel Group Code[1]	Parcel Tax Identification Number[2]				HTRW Project Per INPR Addendum 2
	46.00-2-39.3	60.00-3-19.2	88.00-1-31	88.02-1-22	
	46.00-2-39.4	60.00-3-2	88.00-1-32	88.02-1-23	
	46.00-2-40.1	60.00-3-20	88.00-1-33	88.02-1-24	
	46.00-2-52	60.00-3-21	88.00-1-34	88.02-1-25	
	46.00-2-53	60.00-3-3	88.00-1-35	88.02-1-26	
	47.03-1-28	60.00-3-4.112	88.00-1-36	88.02-1-27	
05: LandUse Group A01	47.03-1-33.12	60.00-3-4.12	88.00-1-37	88.02-1-28	01
	47.03-1-35	60.00-3-4.2	88.00-1-38	88.02-1-29	
	47.03-1-37	60.00-3-4.3	88.00-1-39	88.02-1-3.12	
	47.03-1-38.1	61.00-1-66	88.00-1-43	88.02-1-3.2	
	47.03-1-41	61.00-1-67.2	88.00-1-44	88.02-1-30	
	47.03-1-42	61.00-1-68	88.00-1-45	88.02-1-31	
	60.00-1-24	61.00-1-69	88.00-1-46.2	88.02-1-32	
	60.00-1-26	61.00-1-70	88.00-1-47.2	88.02-1-33	
	60.00-1-27	74.00-1-28	88.00-1-48.11	88.02-1-34	
	60.00-1-37	74.00-1-37	88.00-1-48.12	88.02-1-35	
	60.00-1-39	74.00-1-38	88.00-1-48.2	88.02-1-37	
	60.00-1-41.1	74.00-1-39	88.00-1-49	88.02-1-38	
	60.00-1-42	74.00-1-40	88.00-1-6	88.02-1-4	
	60.00-1-58	74.00-1-41	88.01-1-1	88.02-1-44	
	60.00-1-62.1	74.00-1-42	88.01-1-10	88.02-1-45	
	60.00-1-63	74.00-1-43	88.01-1-11	88.02-1-46	
	60.00-2-10	74.13-1-1	88.01-1-12	88.02-1-48	
	60.00-2-11.1	74.13-1-10.1	88.01-1-13	88.02-1-49	
	60.00-2-12	74.13-1-10.2	88.01-1-14	88.02-1-5	
	60.00-2-13	74.13-1-11.1	88.01-1-15	88.02-1-50	
	60.00-2-14	74.13-1-11.2	88.01-1-17	88.02-1-51	
	60.00-2-16	74.13-1-12.1	88.01-1-18	88.02-1-52	
	60.00-2-20.3	74.13-1-12.2	88.01-1-19	88.02-1-53	
	60.00-2-20.4	74.13-1-2	88.01-1-2	88.02-1-54	
	60.00-2-20.5	74.13-1-24.1	88.01-1-20	88.02-1-6	
	60.00-2-20.6	74.13-1-24.2	88.01-1-22.1	88.02-1-7	
	60.00-2-20.7	74.13-1-25	88.01-1-22.2	88.02-1-8	
	60.00-2-20.8	74.13-1-26	88.01-1-22.3	88.02-1-9	
	60.00-2-20.9	74.13-1-27	88.01-1-23	88.13-1-1	
	60.00-2-23	74.13-1-28	88.01-1-24	88.13-1-10	
	60.00-2-24	74.13-1-29	88.01-1-25	88.13-1-11	
	60.00-2-26.11	74.13-1-3	88.01-1-26.11	88.13-1-12	
	60.00-2-26.12	74.13-1-30	88.01-1-26.12	88.13-1-13	
	60.00-2-28	74.13-1-4	88.01-1-26.2	88.13-1-14	
	60.00-2-31	74.13-1-5	88.01-1-27	88.13-1-15	
	60.00-2-41	74.13-1-6	88.01-1-28	88.13-1-16	
	60.00-2-44.2	74.13-1-7	88.01-1-29	88.13-1-17	
	60.00-2-45	74.13-1-8	88.01-1-3	88.13-1-18	
	60.00-2-47	74.13-1-9.1	88.01-1-30	88.13-1-19	
	60.00-2-48	74.13-1-9.2	88.01-1-31	88.13-1-2	
	60.00-2-49	87.16-1-10	88.01-1-32	88.13-1-20	
	60.00-2-50	87.16-1-11	88.01-1-33	88.13-1-21	
	60.00-2-53	87.16-1-12	88.01-1-34	88.13-1-22	
	60.00-2-54	87.16-1-13	88.01-1-35	88.13-1-23	
	60.00-2-56	87.16-1-14	88.01-1-36	88.13-1-24	
	60.00-2-71	87.16-1-2	88.01-1-37	88.13-1-25	
	60.00-2-72	87.16-1-3	88.01-1-38	88.13-1-26	
	60.00-2-73	87.16-1-30	88.01-1-39	88.13-1-27	
	60.00-2-74	87.16-1-31	88.01-1-5	88.13-1-28	
	60.00-2-77	87.16-1-32	88.01-1-6	88.13-1-29	
	60.00-2-78	87.16-1-4	88.01-1-7	88.13-1-3	
	60.00-3-1.121	87.16-1-5	88.01-1-8	88.13-1-30	
	60.00-3-1.122	87.16-1-6	88.01-1-9	88.13-1-31	
	60.00-3-1.123	87.16-1-8	88.02-1-1	88.13-1-4	

REVISED PROJECT SUMMARY SHEET (continued)
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-01

Parcel Group Code[1]	Parcel Tax Identification Number[2]				HTRW Project Per INPR Addendum 2
05: LandUse Group A01	60.00-3-1.124	87.16-1-9	88.02-1-10	88.13-1-5	01
	60.00-3-1.125	88.00-1-1.11	88.02-1-11	88.13-1-6	
	60.00-3-1.126	88.00-1-1.12	88.02-1-12	88.13-1-7	
	60.00-3-1.127	88.00-1-26.111	88.02-1-13	88.13-1-8	
	60.00-3-1.128	88.00-1-26.112	88.02-1-14	88.13-1-9	
05: LandUse Group A02	74.00-1-13.2	74.00-1-2	88.00-1-10.2	88.00-1-15	01
	74.00-1-13.2/A	74.00-1-45.1	88.00-1-11	88.00-1-16	
	74.00-1-16	75.00-1-4	88.00-1-12	88.00-1-4	
	74.00-1-17	75.00-1-43	88.00-1-13	88.02-1-2	
	74.00-1-18	75.00-1-44	88.00-1-14	88.02-1-3.11	
	74.00-1-19	88.00-1-10.1			
05: LandUse Group A03	46.00-2-28	60.00-1-31	60.00-2-18	60.00-2-25.2	01
	46.00-2-36	60.00-1-33	60.00-2-20.111	60.00-2-27	
	46.00-2-45	60.00-1-35	60.00-2-20.112	60.00-2-34	
	47.03-1-27	60.00-1-36	60.00-2-20.12	60.00-3-1.129	
	60.00-1-22	60.00-1-38	60.00-2-20.2	60.00-3-1.130	
	60.00-1-23	60.00-2-11.2	60.00-2-25.12	60.00-3-1.2	
	60.00-1-30				
05: LandUse Group A04	60.00-2-29.12				01
05: LandUse Group A05	47.03-1-39	60.00-1-43	60.00-2-29.7	61.00-1-60	01
	60.00-1-21	60.00-1-7	60.00-2-42	61.00-1-61	
	60.00-1-25.1	60.00-2-15	60.00-2-43	61.00-1-62.1	
	60.00-1-25.2	60.00-2-19.1	60.00-2-76	61.00-1-62.2	
	60.00-1-28	60.00-2-19.2	60.00-3-1.12	61.00-1-63	
	60.00-1-29	60.00-2-21	60.00-3-13	61.00-1-64	
	60.00-1-32	60.00-2-29.4	60.00-3-18.112	61.00-1-65	
	60.00-1-34	60.00-2-29.5	61.00-1-34.2	88.00-1-50	
06: FormerDOD_RealProp-LOOW Freshwater Intake Pump House	87.00-1-1	87.00-1-2			01
07-1: Group Q	59.00-2-63	73.00-1-4	73.00-1-7.1	73.00-1-8.2	01
	59.00-2-73	73.00-1-47	73.00-1-8.1	73.14-1-6	
	59.00-2-74	73.00-1-5			
07-2: Group O	73.00-1-33	73.00-2-6.2	73.19-1-3	87.00-1-32	01
	73.00-2-10	73.00-2-7.12	73.19-1-4	87.00-1-34	
	73.00-2-11	73.00-2-7.2	73.19-1-5	87.00-1-35	
	73.00-2-13	73.00-2-8	73.19-1-6	87.00-1-4	
	73.00-2-37	73.19-1-10	87.00-1-11.1	87.00-1-5	
	73.00-2-4	73.19-1-11	87.00-1-28.1	87.00-1-6	
	73.00-2-5	73.19-1-12	87.00-1-31	87.00-1-7	
	73.00-2-6.1	73.19-1-2			
07-3: Group M	45.00-1-67	46.00-1-60.1	46.00-2-2.1	46.03-1-18	01
	46.00-1-36	46.00-1-60.2	46.00-2-50.1	46.03-1-19	
	46.00-1-37.1	46.00-1-61	46.00-2-50.2	46.03-1-20	
	46.00-1-37.2	46.00-1-62	46.00-2-51.11	46.03-1-52	
	46.00-1-39.11	46.00-1-8	46.00-2-51.12	46.03-1-53	
	46.00-1-40	46.00-2-1	46.00-2-51.2	46.03-1-54	

REVISED PROJECT SUMMARY SHEET (continued)
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-01

February 2012

Table Notes:

1 Parcel Group Codes:

01: PostOct86Trans/ SthprtRailTrnLLC-P1 = Property sold out of United States Government ownership after 17 October 1986.

01: USACE- P1 - Dod-WETS = Contiguous parcels owned by the United States Government and used as the New York Army Natioal Guard Youngstown Local Training Area

02: LwstnTown - P2 = Property owned by the Town of Lewiston and located within the former LOOW developed area.

02: LwstnTown - P4 = Contiguous parcels owned by the Town of Lewiston, located within the former LOOW developed area, and formerly used for the LOOW Wastewater Treatment Plant.

02: ModernAffCo - P2 = Contiguous parcels owned by Modern Affiliated Companies and located within the former LOOW developed area.

02: PorterTown - P2 = Property owned by the Town of Porter, currently used for a water tower, and located within the former LOOW developed area.

02: SomersetGrp - P1 = Property owned by the Somerset Group and located within the former LOOW developed area.

02: USA_LakeOntOrd - P1 = Property owned by the U.S. Government, located within the former LOOW developed area, and currently used for the Niagara Fall Storage Site, I

02: WMLLC - P1 = Contiguous parcels owned by Waste Management, LLC and located within the former LOOW developed area.

03:SpecCons-Occidental = Property owned by the Occidental Chemical Corporation located within the former LOOW buffer zone, on which confirmed DoD impacts have been identified.

03:SpecCons-School = Lewiston Central School District Property located within the former LOOW buffer zone.

04-1: SupprtFcltyLOOW Administrative Offices = Property on which the former LOOW administrative offices were located, within the former LOOW buffer zone.

04-1: SupprtFcltyLOOW Slurry Pond = Property on which the former LOOW freshwater treatment plant slurry pond was located, within the former LOOW buffer zone.

04-1: SupprtFcltyLOOW Transportation Center = Property on which the former LOOW transportation center was located, within the former LOOW buffer zone.

04-2: Group R = Property in the former LOOW buffer zone that is traversed by the 30-inch outfall line.

04-3: Group P = Property in the former LOOW buffer zone that is traversed by the 42-inch freshwater intake line.

04-4: Group N = Property in the former LOOW buffer zone that is traversed by 4 Mile Creek.

04-5: Group L = Property in the former LOOW buffer zone that is traversed by the Central Drainage Ditch.

04-6: Group K = Property in the former LOOW buffer zone that is traversed by the Southwest Drainage Ditch.

04-8: Group I = Property in the former LOOW buffer zone that is traversed by 6 Mile Creek.

04-9: TEC Group B = Property in the former LOOW buffer zone on which ground disturbances identified as potential small bermed clearings were located.

04-9: TEC Group C = Property in the former LOOW buffer zone on which ground disturbances identified as potential ground scars were located.

04-9: TEC Group D = Property in the former LOOW buffer zone on which ground disturbances identified as potential mounded material were located.

05: LandUse Group A01 = Parcels located within the former LOOW buffer zone with land use classification of residential.

05: LandUse Group A02 = Parcels located within the former LOOW buffer zone with land use classification of industrial.

05: LandUse Group A03 = Parcels located within the former LOOW buffer zone with land use classification of agricultural or rural residential.

05: LandUse Group A04 = Parcels located within the former LOOW buffer zone with land use classification of commercial, municipal, or community service.

05: LandUse Group A05 = Parcels located within the former LOOW buffer zone with land use classification of undeveloped, recreational, park, or wildlife area.

06: FormerDOD_RealProp-LOOW Freshwater Intake Pump House = Property formerly owned by the U.S. Government for the LOOW and used for the Freshwater Intake Pump House, but which is located outside the formal LOOW boundary.

07-1: Group Q = Property through which the U.S. Government held an easement for the 30-inch outfall line.

07-2: Group O = Property through which the U.S. Government held an easement for the 42-inch freshwater intake line.

07-3: Group M = Property through which the U.S. Government held an easement along 4 Mile Creek.

2 Parcel Tax Identification Numbers accurate as of 2010.

3 The Somerset Group has entered into a CERCLA settlement under Civil Action #: 00-CV-732A(F): John Syms, Eileen Syms, The Somerset Group Inc., Unitool Corporation, Lew-Port Construction Corporation, C&S Machinery Corporation, Syms Equipment Rental Corporation, and Lew-Port Electric Corporation vs. Olin Corporation, United States DoD, United States Department of the Army, United States Department of the Air Force, United States Nuclear Regulatory Commission, the United States of America (Syms v. United States). This settlement releases the USACE from conducting environmental response actions at this parcel.

4 The NFSS is being investigated under FUSRAP.

(REVISED) PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-02
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **TNT Pipelines** - This revised HTRW project summary sheet is currently described as "TNT Pipelines (OU-1)". The project location is illustrated in Enclosure 2 (Figure 1).

This project addressed underground TNT pipelines/waste lines that conveyed TNT wash water wastes, and chemical waste lines constructed to support AFP-68 that conveyed chemical and acid wastes. These lines were located on property currently owned by Waste Management Limited Liability Corporation (LLC) (formerly known as CWM Chemical Services Inc.), the Somerset Group, and the Town of Lewiston.

The TNT pipelines/waste lines were concrete-encased and buried between 1- and 14-feet below ground surface. The lines run between the former nitration houses located on property owned by CWM Chemical Services Inc. and then to the mixing house of the former LOOW Wastewater Treatment Plant (WWTP) located on property owned by the Town of Lewiston. The chemical waste lines constructed to support AFP-68 traverse to a former oil water separator, which ultimately discharged to the former LOOW WWTP. The USACE conducted RI activities in accordance with the CERCLA process (Acres 1992) to investigate the hazards. Upon completion of the RI, these hazards were addressed further under another HTRW project (Project-04).

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

POLICY CONSIDERATIONS: There are no policy considerations that prevent the clarification of this HTRW project.

PROPOSED ACTIVITIES: No activities are proposed. The USACE has investigated the hazards included in this project through the RI. Upon completion of the RI, these hazards were addressed further under HTRW Project-04. Enough information has been collected to substantiate an NDAI determination.

(REVISED) PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-04
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **IRA** - This revised HTRW project summary sheet is currently described as "IRA", this project has also been previously referred to as "Interim Removal Action". The project location is illustrated in Enclosure 2 (Figure 1).

Project-04 was authorized in 1993 for an IRA deemed necessary based on the findings of SI and RI activities conducted under other HTRW projects (HTRW Projects-01 and -02). As part of HTRW Project-04, an engineering evaluation/cost analysis (EE/CA) for hazards located on property owned by Chemical Waste Management LLC (currently known as CWM Chemical Services Inc.), the Somerset Group, and the Town of Lewiston was prepared. These hazards included TNT pipelines/waste lines, chemical waste lines, Area A, Area B, and miscellaneous materials associated with AFP-68. The TNT pipelines/waste lines present at the former LOOW WWTP during plant operation discharged to the WWTP mixing house.

The USACE performed an IRA on the TNT pipelines/waste lines beginning in 1999 under HTRW project C02NY002504. The portion of the TNT lines on this property included in this proposed project were cleaned and closed in place. The final response action (i.e. confirmatory sampling and/or decision document) for the TNT pipelines/waste lines will be addressed under this proposed project (C02NY002508).
An IRA was then performed that addressed the TNT pipelines/waste lines, chemical waste lines, and miscellaneous materials. The IRA included removal of portions of the TNT waste lines and chemical waste lines, and both cleaning and closure in place of other portions of these lines (Sevenson 2000, Sevenson 2001). In addition, the miscellaneous materials were removed from the site. It was determined that Areas A and B, had been impacted by non-DoD entities, therefore these areas were not further evaluated or remediated under this HTRW project.

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

POLICY CONSIDERATIONS: There are no policy considerations that prevent the clarification of this HTRW project.

PROPOSED ACTIVITIES: No activities are proposed, the EE/CA and IRA are complete. Enough information has been collected to substantiate an NDAI determination.

PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-10
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **Former LOOW Wastewater Treatment Plant** - This is a newly proposed -HTRW project summary sheet. The property on which the former LOOW WWTP was located, was transferred from the DoD to the AEC in 1946 and was sold to the Town of Lewiston in 1975. The project location is illustrated in Enclosure 2 (Figure 3).

Former LOOW WWTP (general area and buildings/structures)

The former LOOW WWTP was constructed in 1942 to support the LOOW facility by treating wastes from the LOOW sanitary sewer and acid waste lines, and dilute wastes from the TNT manufacturing areas. The former LOOW WWTP was comprised of the following: a sewage pump house, venturi vault, Imhoff settling tank, sludge beds, a chlorine contact tank, acid neutralization building, collection tank and final mixing houses, as well as underground utility lines used to convey wastes between these facilities (the underground utility lines are discussed in the next paragraph). After LOOW activities ceased, the plant was utilized by AFP-68, AFP-38, the Navy IPPP, the NIKE Missile Battery NF-03/05, and the Boron-10 Production Plant (a non-DoD facility). Use of the former LOOW WWTP ended in 1971. The Town of Lewiston purchased the property in 1975 and has not utilized the facility.

Former LOOW WWTP Underground Utility Lines

Five types of underground utilities formerly used by the DoD are present at the former LOOW WWTP: 1) acid waste lines, 2) a small portion of the 30-inch outfall line, 3) sanitary sewer lines, 4) wastewater lines, and 5) drains, pits, and sumps. These lines/pits/sumps were used to convey and/or treat various wastes from the former LOOW, AFP-68, AFP-38, Navy IPPP, the NIKE Missile Battery NF-03/05, and the Boron-10 Production Plant.

Former LOOW WWTP Vicinity Shops

Several support shops, referred to as the WWTP Vicinity Shops, were constructed in 1942 to support the LOOW. The WWTP Vicinity Shops included a paint shop, fabrication shop, tool house, electrical shop, and portions of two unloading platforms.

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

PROJECT SUMMARY SHEET (continued)
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-10
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

POLICY CONSIDERATIONS: There are no policy considerations that prevent the clarification of this HTRW project.

PROPOSED ACTIVITIES: The proposed activity consists of investigation and subsequent response activity for soil and groundwater, as required. The hazards to be evaluated include the area of ground disturbance that occurred during the timeframe of DoD use, former LOOW WWTP (general area and buildings/structures), WWTP underground utility lines, TNT pipelines/waste lines, and WWTP Vicinity Shops.

PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-11
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **Occidental Chemical Corporation Property** - This is a newly proposed -HTRW project summary sheet. This property is defined as Niagara County Department of Real Estate, real property tax identification number 60.00-3-5. The project location is illustrated in Enclosure 2 (Figure 3).

The area addressed in this HTRW project was part of the undeveloped portion of the former LOOW. Analysis of aerial photographs indicates the presence of a probable storage area and other features that occurred on the property during the timeframe of DoD use (1941-1944). In addition, hazards have been identified through investigation activities conducted under previously authorized HTRW Project-01.

Probable Storage Area

Two examinations of historic aerial photographs of the former LOOW have been completed (TEC 2002, USAGC 2009). These examinations identified ground disturbances and features that occurred on the property during the timeframe of DoD use. One of these features was a fenced area located in what is now the southwest portion of the Occidental Chemical Corporation property. This fenced area was observed on historic aerial photographs from 1944 but was not observed on aerial photographs from 1938, which was prior to DoD ownership of the property. The property was transferred from the DoD to the GSA in 1945 and sold to a private landowner in 1946.

Evidence of past DoD use of this area (i.e. drums, surface debris, disturbed soil, etc.) was observed during field reconnaissance conducted during the 2002 Phase II RI. Evidence of burning and igniter container lids for incendiary devices were found in test pits performed during a 2010 data gap evaluation. Surface and subsurface soil samples and one sample of drum contents have been collected from the probable storage area. Elevated concentrations of explosives, polycyclic aromatic hydrocarbons (PAHs), and metals were found in the samples.

This area was included in a Screening Level Ecological Risk Assessment (SLERA) and a Human Health Risk Assessment (HHRA) conducted as part of the 2002 Phase II RI to identify residual risk to human health and the environment. Both assessments identified the potential for risks to receptors from the highest concentrations detected at the site.

Areas of Ground Disturbance

The historic aerial photograph evaluations also identified other areas of ground disturbance on the Occidental Chemical Corporation property. These areas did not appear on aerial photographs taken in 1938, but were visible on aerial photographs taken in 1944, prior to the DoD disposing of the property

to the GSA in 1945. The ground disturbances were classified as mounded material, disturbed ground, and other.

Former Structures Located East of the Probable Storage Area

Structures located east of the probable storage area are visible in aerial photographs from 1944 and 1951, and are not visible in the 1956 photographs. These structures are not visible on photographs from 1938, which was prior to DoD ownership of the property.

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

POLICY CONSIDERATIONS: There are no policy considerations that prevent the clarification of this HTRW project.

PROPOSED ACTIVITIES: The proposed activity consists of investigation and subsequent response activity for soil and groundwater, as required. The hazards to be evaluated include the area of ground disturbance that occurred during the timeframe of DoD use.

PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. C02NY0025-12
Property No. C02NY0025
FORMER LAKE ONTARIO ORDNANCE WORKS
Lewiston, NY
March 2012

PROJECT DESCRIPTION: **Ground Disturbances in Historic Photographs -** This is a newly proposed -HTRW project summary sheet. This project addresses ground disturbances identified in historic aerial photographs that occurred on former LOOW property during the timeframe of DoD use and that are not addressed by other HTRW projects. The project location is illustrated in Enclosure 2 (Figure 3).

Potential hazards have been identified through investigation activities conducted under previously authorized HTRW Project-01.

Areas of Ground Disturbance

Two examinations of historic aerial photographs of the former LOOW have been completed (TEC 2002, USAGC 2009). These examinations identified different types of ground disturbances and features that occurred on the property during the timeframe of DoD use. These disturbances/features are areas of possible DoD activity. The areas of ground disturbance included in this project were not observed in aerial photographs taken prior to DoD ownership (e.g. photographs from 1938), and were observed in photographs taken during DoD ownership (e.g. photographs from 1944 and 1946).

The ground disturbances can be grouped into different categories based on the descriptions provided in the TEC 2002 and USAGC 2009 examinations. These categories include: Disturbed/Ground Scar, Liquid or Pond, Material/Mounded Material, Open Storage, Tracks/Trail, and Other.

PROJECT ELIGIBILITY: The hazards addressed by this HTRW project are located on real property used by the DoD and disposed of prior to 17 October 1986. A Findings and Determination of Eligibility (FDE) has been signed and is included as Enclosure 3.

POLICY CONSIDERATIONS: There are no policy considerations that prevent the clarification of this HTRW project.

PROPOSED ACTIVITIES: The proposed activity consists of investigation and subsequent response activity for soil and groundwater, as required. The hazards to be evaluated include the area of ground disturbance that occurred during the timeframe of DoD use.

LOOW INPR Addendum No. 2

Background Memos and Counsel and Real Estate Concurrence

Enclosure 5

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207-3199

REPLY TO
ATTENTION OF

CELRB-DC

MAR 2 8 2012

MEMORANDUM FOR Commander, New England District, ATTN: CENAE, 696 Virginia Road, Concord MA 01742-2751.

SUBJECT: Defense Environmental Restoration Program – Formerly Used Defense Sites (DERP-FUDS) Amended Inventory Project Report (INPR) for Property No. C02NY0025, Addendum-2, FORMER LAKE ONTARIO ORDNANCE WORKS (LOOW), LEWISTON, NY

1. This memorandum, including enclosures, comprises an amendment to the previous INPR Addendum-1, dated 2008, for projects at the Former Lake Ontario Ordnance Works (LOOW) in Lewiston, NY. Enclosure 1 is the Revised Property Summary Sheet. Enclosure 2 includes figures of project locations on the property. Enclosure 3 includes Project Summary Sheets. Enclosure 4 includes INPR Addendum-1 approved on 03 March 2008 and the Revised Findings and Determination of Eligibility (FDE) for this property approved on 23 October 2006.

2. There are currently six approved projects (Projects -00, -01, -02, -04, -06, and -07) at LOOW. One of the six projects is closed: a Containerized Hazardous Toxic and Radioactive Waste (CON-HTRW) project (Project-06). Five of the six projects are currently active: a site-wide HTRW project (Project-01), three site-specific HTRW projects (Projects -00, -02, and -04), and a site-specific potentially responsible party (PRP)/HTRW project (Project-07).

3. A second addendum to the INPR for LOOW is recommended in order to replace Projects -00, -01, -02, -04 with revised Projects -00, -01, -02, -04 and propose three new projects (Projects -10, -11, and-12). No change is proposed to Projects -06 and -07. LOOW is approximately 7,500-acres and is very complex with multiple soil and water investigation areas, numerous property owners, and various land uses. All portions of LOOW are in various stages of investigation, mitigation, and/or remediation. Breaking up this one large property into a total of nine smaller projects will enable the Corps to close out portions of the former LOOW while prioritizing further remedial investigations of the remaining portions. Enclosure 4 contains the Project Summary Sheets for the revised and proposed projects.

4. There are four project numbers (-03, -05, -08, and -09) that will not be utilized. A project with a designation of "Project-03" was never identified, therefore project numeration resumed with Project-04. Project-05 has been listed as "pending" but has never been "authorized". Project-05 will be rejected with an "R" designation in the FUDS Management Information System (FUDSMIS) as a result of research concluding there has been insufficient information to identify the intended project definition and purpose. Projects -08 and -09 were proposed in INPR Addendum -1. Following the completion of Addendum-1, an Archives Search Report (ASR) was completed that found no Military Munitions Response Program (MMRP) issues and

recommended no MMRP projects. Therefore Projects -08 and -09 were never established in FUDSMIS.

5. The Buffalo District Office of Counsel and Real Estate concurs with the stated recommendations. EM-CX has reviewed and concurred on all identified outstanding issues/comments.

6. I recommend that New England District approve the revised projects (-00, -01, -02, -04) and accept the newly proposed HTRW projects (-10, -11, and -12) as presented in INPR Addendum-2.

7. Please contact me directly if I can be of further assistance. Detailed information desired by your staff can be obtained by contacting [redacted] at [redacted]

[redacted]
Commanding

4 Encls

1. Revised Property Survey Summary Sheet
2. Property Maps (Figures 1-3)
3. 2006 Revised Findings and Determination of Eligibility (FDE)
4. Revised and Proposed Project Summary Sheets

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT
1776 NIAGARA STREET
BUFFALO, NY 14207-3199

REPLY TO
ATTENTION OF

CELRB-OC

14 March 2012

MEMORANDUM FOR: [redacted] CELRB-SF-PM

SUBJECT: Addendum-2, Inventory Project Report (INPR) for Property No. C02NY0025, FORMER LAKE ONTARIO ORDNANCE WORKS (LOOW), LEWISTON, NY

1. I have reviewed the subject INPR and enclosures and found it to be legally sufficient. Therefore, I recommend that you forward the document to the District Commander for his approval, signature and forwarding to the New E[redacted]der.

[redacted]

Senior Assistant District Counsel

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, New York 14207-3199

REPLY TO
ATTENTION OF

CELRE-LRB-RE

18 April 2012

MEMORANDUM FOR: [redacted] - CELRB-SF-PM

SUBJECT: Addendum-2 Inventory Project Report (INPR) for Property No. CO2NY0025; Former Lake Ontario Ordnance Works (LOOW), Lewiston, NY

I have reviewed the subject INPR and enclosures and found the real estate to be sufficient. Therefore, I recommend that you forward the document to the District Commander for his approval, signature and forwarding to the New England District Commander.

[redacted]
[redacted]
Realty Specialist