UPLAND, BENEFICIAL USE, AND SEDIMENT DEWATERING SITE INVESTIGATIONS PHASE 2

Long Island Sound Regional Dredged Material Management Plan (DMMP)

Contract No. W912WJ-09-D-0001
Task Order #24

Prepared For:
United States Army Corps of Engineers
New England District
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November 15, 2010

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Acronyms

BBL	Borough/Block/Lot
CFR	Code of Federal Regulations
CRRA	Connecticut Resources Recovery Authority
CT DEP	Connecticut Department of Environmental Protection
CUGIR	Cornell University Geospatial Information Repository
DMMP	Dredged Material Management Plan
EPA	US Environmental Protection Agency
FEMA	Federal Emergency Management Agency
GIS	Geographic Information System
LIS	Long Island Sound
MARSEC	Coast Guard Marine Security
MBL	Map/Block/Lot
NRCS	Natural Resources Conservation Service
NYCDEC	New York City Department of Environmental Conservation
NYDOS	New York Department of State
NYSDEC	New York State Department of Environmental Conservation
NYNHP	New York Natural Heritage Program
OLISP	State of Connecticut, Office of Long Island Sound Programs
RI DEM	Rhode Island Department of Environmental Management
USACE	US Army Corps of Engineers
USDA	United States Department of Agriculture

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1.0 INTRODUCTION

In June 2005, the Environmental Protection Agency (EPA) designated two open water dredged material disposal sites in Long Island Sound (LIS). These sites are intended to provide long-term, environmentally acceptable disposal options for potential use by federal, state, municipal and private entities, which must dredge channels, harbors, marinas and other aquatic areas to maintain conditions safe for marine commerce and recreational navigation. The Designation Rule (40 CFR 228.15(b)(4)) anticipated the development of a regional Dredged Material Management Plan (DMMP) for LIS. Subsequent to the publication of the Designation Rule, EPA, the US Army Corps of Engineers (USACE), and appropriate federal and state resource agencies agreed to partner in the development of a LIS DMMP. The LIS DMMP, which was initiated in 2006, will include an in-depth analysis of all potential dredged material management alternatives including open-water placement, beneficial use, upland placement, and innovative treatment technologies, which may be used by dredging proponents in developing alternatives analyses for dredging and dredged materials placement in the LIS vicinity.

One of the tasks undertaken by the USACE for the LIS was updating the Upland, Beneficial Use, and Sediment Dewatering Site Inventories for the region. Under this task, potential upland disposal, beneficial use, and sediment dewatering sites in the Long Island Sound region were identified. The 2009 report "Upland, Beneficial Use, and Sediment Dewatering Site Inventory Report" (USACE, 2009) describes, in preliminary fashion, sites potentially available for upland placement, beneficial use, or dewatering of dredged material in the Long Island Sound region. The initial report included a screening of the sites to identify the ones that were considered potentially viable for use by USACE in management of dredged material from Federal Navigation Projects. The current study builds on the 2009 work to more fully describe upland sites that may be available for processing or placement of dredged material from Federal projects. To distinguish this project from the prior one, this project is denoted Upland, Beneficial Use and Sediment Dewatering Site Investigations, Phase 2. Additional work is being done to characterize the other sites that were not considered feasible for use by Federal projects but could be used by State or local interests. This additional assessment will be documented in a separate report.

1.1 PURPOSE OF STUDY

The objective of this project is to characterize potential upland, beneficial use, and sediment dewatering sites in the Long Island Sound region. Results from this analysis will be used to determine the feasibility of these sites for dewatering and upland placement of dredged material.

1.2 STUDY AREA

The study area includes the entire State of Connecticut, Washington County, RI, and Westchester, Suffolk, Nassau, Queens, Kings (Brooklyn), New York (Manhattan), Bronx, and Westchester Counties in NY. Figure 1 shows the study area.

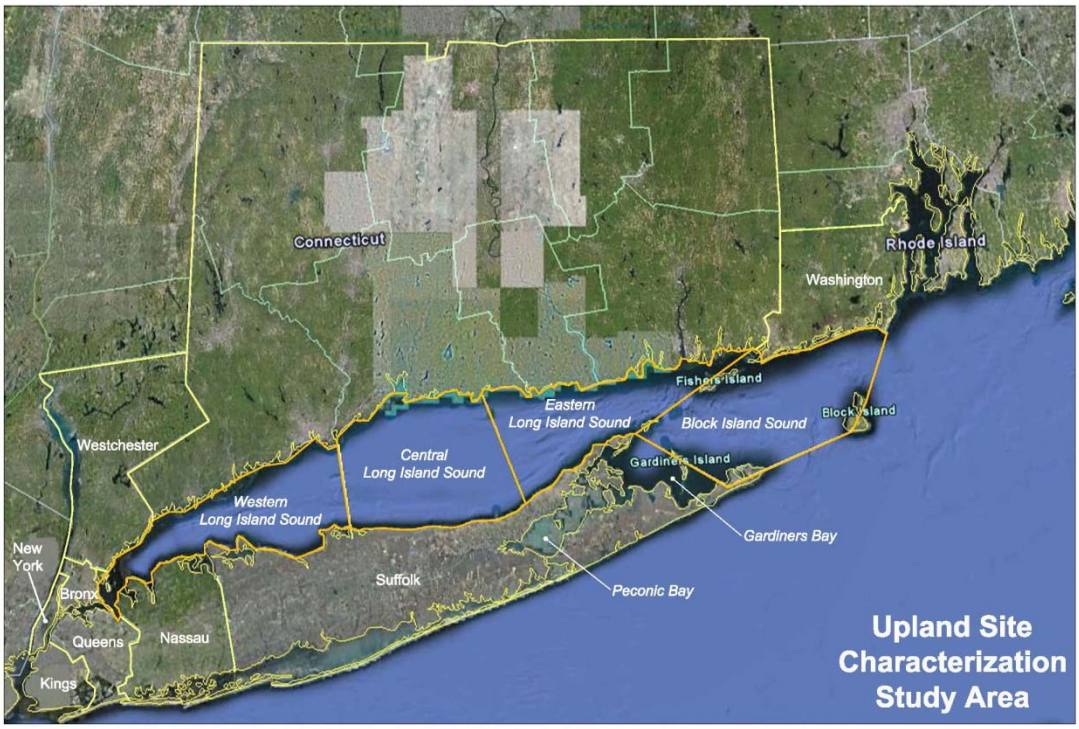

Figure 1. Study Area

2.0 METHODS

General methods used to complete the study included the following:

- **A final site inventory was developed**, based on information from the 2009 Site Inventory Report (USACE, 2009) and communication with USACE on other potentially viable sites.
- **Relevant information was downloaded from online sources,** for example parcel maps and wetland boundaries.
- **Site visits were conducted** to obtain information on site conditions, current use, and capacity to accept dredged material.
- **Site capacity calculations were performed** for beach nourishment sites and dewatering sites to estimate the volume of dredged material that could be accommodated by each site. These calculations were not necessary for landfills, habitat restoration sites, or re-development sites, where capacity estimates were pre-determined and obtained from site manager/operators.
- **Site summaries were produced** based on information gathered over the course of the study.

The following sections describe the methods in further detail.

2.1 DEVELOPMENT OF FINAL SITE INVENTORY

The final site inventory was developed using the Phase I Site Inventory Report (USACE, 2009), along with information from the USACE on additional sites that could potentially accept dredged material. The Phase I Site Inventory Report (USACE, 2009) identified 157 potential sites that could potentially accept dredged material and 22 potential dewatering sites. The sites with capacity for material included 104 beaches, 5 habitat restoration sites, 6 landfills, 10 redevelopment-construction sites, 1 mine reclamation, 1 Brownfield site, and 30 concrete/asphalt plants. In consultation with the USACE, the concrete/asphalt plants were removed from the site investigations, as were municipal and county-owned beaches located greater than 2 miles from the Federal Navigation Projects in the study area.

The rationale for removing the concrete/asphalt plants was based on the fact that concrete/asphalt plants do not utilize silty material and the sandy material that the plants would use would be more appropriate for beach renourishment. The rationale for eliminating the renourishment sites located more than 2 miles from Federal Navigation Projects was based on the significant cost and logistical issues associated with pumping dredged material more than 2 miles from the dredging sites. Sites on the south side of Long Island (excluding habitat restoration sites), where it would be impractical to move dredge material, and sites the USACE no longer considered viable were also eliminated from further review.

Sites added to the inventory included Federal Shore Protection or Coastal Storm Damage Reduction projects in the study area, whether or not they were in the original Phase I Site Inventory Report (USACE, 2009). This was done to insure that potential beach renourishment sites within a reasonable pumping distance from the projects were considered. All State-owned beaches from the Phase I Site Inventory Report indicating a need for material were retained for further consideration in the final site inventory.

The final site inventory included 102 sites at 99 different locations. Of these 102 sites, 50 potential sites are located in Connecticut, 46 in New York, 5 in Rhode Island, and 1 in Pennsylvania (Table 1; Figure 2). The majority of the sites are beaches, with 30 municipal/county beaches, 10 state beaches, and 27 Federal Shore Protection beaches. The final site inventory also included 1 mine reclamation site, 6 landfills, 3 redevelopment/construction sites, 4 habitat restoration areas, and 21 potential dewatering sites.

The final site inventory, including site ID, location, category of site, and site name is provided in Tables 2 and 3. Table 2 includes all upland placement and beneficial use sites. Table 3 lists the dewatering sites.

Table 1. Final Site Inventory Summary

Category	CT	NY	RI	PA	Total
Beach – Municipal/County	18	10	2	0	30
Beach – State	2	8	0	0	10
Beach – Fed. Shore Protection	19	7	1	0	27
Mine	0	0	0	1	1
Landfill	3	3	0	0	6
Redevelopment/Construction	0	3	0	0	3
Habitat Restoration	0	4	0	0	4
Dewatering	8	11	2	0	21
Total	50	46	5	1	102

Note: Co-located sites were combined in the final site inventory (Tables 2 and 3): Site 455 (Federal Shore Protection) & 82 (Town Beach); CT-49 (dewatering) & 373 (landfill); 422 & 423 (redevelopment/construction).

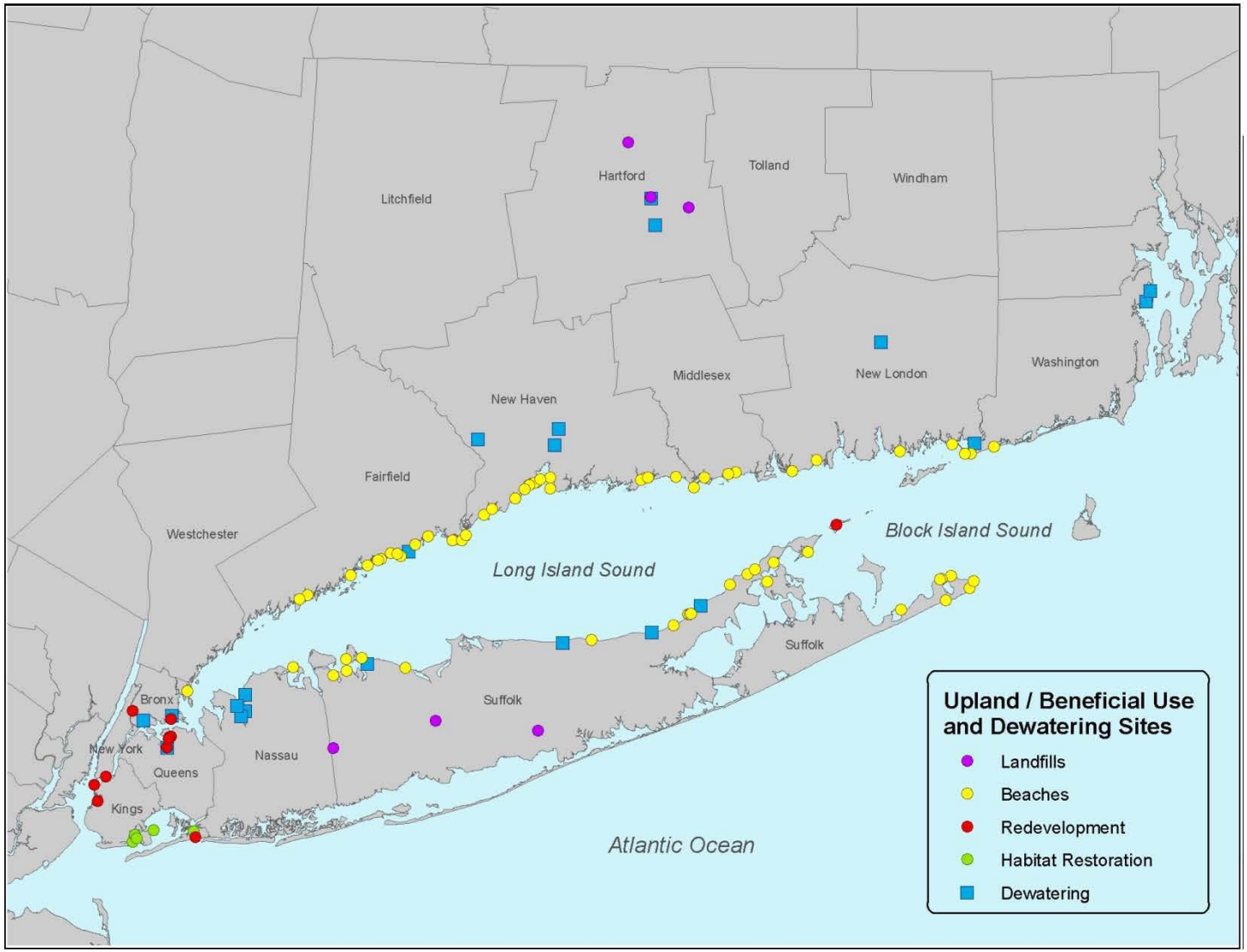

Figure 2. Distribution of Upland, Beneficial Use, and Dewatering Sites in Final Site Inventory

Table 2. Upland and Beneficial Use Sites in Final Site Inventory

Site ID	State	Town	Project Type	Site Name
323	CT	Bridgeport	Federal Shore Protection	Seaside Beach
433	CT	Fairfield	Federal Shore Protection	Southport Beach
434	CT	Fairfield	Federal Shore Protection	Sasco Hill Beach
436	CT	Fairfield	Federal Shore Protection	Jennings Beach
443	CT	Guilford	Federal Shore Protection	Guilford Point Beach
365	CT	Madison	Federal Shore Protection	Hammonasset State Park
457	CT	Madison	Federal Shore Protection	East Wharf Beach
364	CT	Milford	Federal Shore Protection	Silver Sands State Park
444	CT	Milford	Federal Shore Protection	Gulf Beach
451	CT	Milford	Federal Shore Protection	Woodmont Shore Beach
337	CT	New Haven	Federal Shore Protection	Lighthouse Point Park Beach
320	CT	Norwalk	Federal Shore Protection	Calf Pasture Beach
441	CT	Stamford	Federal Shore Protection	Cove Island Beach
442	CT	Stamford	Federal Shore Protection	Cummings Park Beach
450	CT	Stratford	Federal Shore Protection	Short Beach
447	CT	West Haven	Federal Shore Protection	Prospect Beach
438	CT	Westport	Federal Shore Protection	Burial Hill Beach
440	CT	Westport	Federal Shore Protection	Compo Beach
449	CT	Westport	Federal Shore Protection	Sherwood Island State Park
181	NY	Bronx	Federal Shore Protection	Orchard Beach
453	NY	East Hampton	Federal Shore Protection	Lake Montauk Harbor
63	NY	Huntington	Federal Shore Protection	Asharoken Beach
456	NY	Oyster Bay	Federal Shore Protection	Bayville
454 East	NY	Southold	Federal Shore Protection	Hashamomuck Cove - County Road 48
454 West	NY	Southold	Federal Shore Protection	Hashamomuck Cove - Kenney's Beach
384	RI	Westerly	Federal Shore Protection	Misquamicut State Beach
455 / 82	NY	Mattituck	Federal Shore Protection / Beach (Town)	Mattituck Harbor 111 / Bailie's Beach
367	CT	East Lyme	Beach (State)	Rocky Neck State Park
368	CT	Groton	Beach (State)	Bluff Point State Park
171	NY	Wading River	Beach (State)	Wildwood State Park
173	NY	East Hampton	Beach (State)	Hither Hills State Park
177	NY	East Hampton	Beach (State)	Shadmoor State Park
178	NY	East Hampton	Beach (State)	Camp Hero State Park
179	NY	East Hampton	Beach (State)	Montauk Point State Park
170	NY	Kings Park	Beach (State)	Sunken Meadow State Park
180	NY	Orient	Beach (State)	Orient Beach State Park
445	NY	Riverhead	Beach (State)	Jamesport State Park

Site ID	State	Town	Project Type	Site Name
446	NY	East Hampton	Beach (County)	Theodore Roosevelt County Park
343	CT	Clinton	Beach (Town)	Clinton Town Beach
474	CT	Fairfield	Beach (Town)	South Pine Creek Beach
339	CT	Guilford	Beach (Town)	Jacobs Beach
470	CT	Guilford	Beach (Town)	Chaffinch Island Park
459	CT	New Haven	Beach (Town)	Fort Nathan Hale Park
348	CT	Old Lyme	Beach (Town)	White Sands Beach
480	CT	Stonington	Beach (Town)	duBois Beach
467	CT	Stratford	Beach (Town)	Long Beach
468	CT	Stratford	Beach (Town)	Russian Beach
325	CT	West Haven	Beach (Town)	Altschuler Beach
327	CT	West Haven	Beach (Town)	Bradley Point Park
329	CT	West Haven	Beach (Town)	Morse Beach
330	CT	West Haven	Beach (Town)	Oak Street Beach
331	CT	West Haven	Beach (Town)	Peck Beach
332	CT	West Haven	Beach (Town)	Sandy Point
333	CT	West Haven	Beach (Town)	Savin Rock
344	CT	Westbrook	Beach (Town)	Middle Beach
345	CT	Westbrook	Beach (Town)	West Beach
121	NY	East Hampton	Beach (Town)	Gin Beach
64	NY	Huntington	Beach (Town)	Hobart Beach
67	NY	Huntington	Beach (Town)	Crescent Beach (Huntington)
68	NY	Huntington	Beach (Town)	Gold Star Battalion Beach
81	NY	Mattituck	Beach (Town)	Breakwater Park Beach
111	NY	Shelter Island	Beach (Town)	Crescent Beach (Shelter Island)
76	NY	Southold	Beach (Town)	Southold Town Beach
79	NY	Southold	Beach (Town)	Gull Pond Beach (Norman E. Klipp Park)
381	RI	Westerly	Beach (Town)	Watch Hill Beach
382	RI	Westerly	Beach (Town)	Napatree Point Beach
427	NY	Brooklyn	Habitat Restoration	Plumb Beach
430	NY	Brooklyn	Habitat Restoration	White Island
431	NY	Brooklyn	Habitat Restoration	Gerritsen Creek
429	NY	Jamaica Bay	Habitat Restoration	Jamaica Bay Marsh Islands
251	CT	Manchester	Active Landfill Site	Manchester Landfill
272	CT	Windsor	Active Landfill Site	Windsor-Bloomfield Landfill
61	NY	Brookhaven	Active Landfill Site	Town of Brookhaven Landfill
60	NY	Islip	Active Landfill Site	Blydenburgh Road Landfill Complex, Clean Fill Phase 1 + 2
59	NY	Melville	Active Landfill Site	110 Sand Company Clean Fill Disposal Site

Site ID	State	Town	Project Type	Site Name
422 / 423	NY	Flushing	Redevelopment/Construction	Flushing Airport Wetlands / Flushing Airport Uplands
437	NY	Southold	Redevelopment/Construction	Plum Island
417	PA	Hazelton	Mine Reclamation	Hazelton Mines

Table 3. Dewatering Sites in Final Site Inventory

Site ID	State	Town	Project Type	Site Name
CT-49 / 373	CT	Hartford	Dewatering / Active Landfill Site	CRRA Hartford Landfill
CT-41	CT	Ansonia	Dewatering	Ansonia Target Store
CT-50	CT	East Hartford	Dewatering	Goodwin College
CT-8	CT	Fairfield	Dewatering	Fairfield Public Works Site
CT-30-A	CT	Hamden & North Haven	Dewatering	North Haven Tire Pond Site
CT-28	CT	New Haven	Dewatering	Anastasio Trucking Site
CT-54	CT	Norwich	Dewatering	P&W Railroad Co. Site
CT-35	CT	Stonington	Dewatering	Osbrook Point Agricultural Fields
NY-5-A	NY	Huntington	Dewatering	Northport Boat Ramp and Fields
NY-5-B	NY	Huntington	Dewatering	Northport Power Station
NY-18	NY	Bronx	Dewatering	Barry St. Industrial Site
NY-28	NY	Brookhaven	Dewatering	Shoreham Power Station
NY-7-A	NY	Glen Cove	Dewatering	Garvies Pt. Remediation Site
NY-1	NY	Mattituck	Dewatering	Mattituck Agricultural Fields
NY-10	NY	North Hempstead	Dewatering	Port Washington Landfill
NY-29	NY	North Hempstead	Dewatering	North Hempstead Aerodrome
NY-8	NY	North Hempstead	Dewatering	Glen Cove Industrial Site
NY-3	NY	Northville	Dewatering	Northville Agricultural Fields
NY-16-B	NY	Queens	Dewatering	Queens Parking Garage
RI-4-C	RI	North Kingstown	Dewatering	Quonset Point South
RI-5	RI	North Kingstown	Dewatering	Quonset Point North

2.2 BACKGROUND DATA COLLECTION

Once the final site inventory was developed, background data necessary to prepare the detailed site summaries was gathered. Information describing parcel boundaries, wetlands, habitat areas for Federal or State listed species, soils, Federal Emergency Management Agency (FEMA) flood zones, zoning, and cultural resources was obtained from a variety of sources. This information will be used in the screening of potential

sites for use in dredged material management plans for Federal Navigation Projects. A description of the data sources and types of information gathered is provided below.

2.2.1 Parcel Boundaries

Plot plan or tax assessor map data were obtained for each location in the final site inventory. These were obtained as digital files from tax assessor database sources where available, or from paper copies in cases where digital versions could not be obtained. Source information for parcel boundaries from the various regions throughout the study area is shown in Table 4.

Table 4. Data Sources Used for Parcel Boundaries

State	Municipality/County	Parcel Source
CT	Towns of Ansonia, Clinton, East Hartford, East Lyme, Groton, Guilford, Hartford, Madison, Manchester, Milford, New Haven, Norwalk, Norwich, Old Lyme, Stamford, Stonington, Stratford, West Haven, Westbrook, Westport, and Windsor	Digital parcel data from CT DEP GIS file: Connecticut Parcels (CT DEP, 2010)
CT	Town of Bridgeport	Parcel map from City of Bridgeport GIS (City of Bridgeport, 2010)
CT	Town of Fairfield	Town of Fairfield, CT Planning and Zoning Districts Map (Town of Fairfield, 2008)
NY	Suffolk County	Digital parcel data from Suffolk County Real Property Tax Service Agency (personal communication)
NY	Nassau County	Parcel maps from Nassau County Land Record Viewer (Nassau County, 2010)
NY	Bronx, Queens, Brooklyn Boroughs	Parcel maps from New York Finance, Digital Tax Map Online (2010)
RI	Town of North Kingstown	Parcel maps from North Kingstown RI Online GIS (North Kingstown RI, 2006)
RI	Town of Westerly	Parcel maps from Town of Westerly, RI GIS (Westerly RI, 2010)
PA	Town of Hazelton	Parcel data not obtained

The digital parcel boundary data for sites in Connecticut and Suffolk County were displayed in ESRI's GIS software ArcGIS. For the sites where digital boundary datalayers were unavailable, parcel maps were brought into ArcGIS as images and georeferenced to aerial photography. The parcel boundaries were then captured digitally

through heads-up digitizing. Parcel reference IDs (map/block/lot; borough/block/lot; etc.) were saved in associated attribute tables.

Parcel boundaries and reference IDs were obtained for all properties in the final site inventory identified with a potential to accept dredged material. Parcel boundaries and reference IDs were also obtained for abutting properties. These were defined as properties directly abutting the dredged material site, as well as properties directly across a road from the dredged material site. Parcel boundaries for sites and abutters were overlain on Google Earth aerial photography. The resulting parcel maps are included with each site summary in Section 4.0.

2.2.2 Wetlands

Information on mapped wetlands was gathered from State online information sources and is presented with each site summary in Section 4.0. Connecticut wetlands data were obtained as an ArcGIS shapefile from the CT DEP Tidal Wetlands 1990s data layer available online (CT DEP, 2002). This data layer shows all mapped tidal wetlands across the state of Connecticut. The mapping was compiled by the State of Connecticut, Office of Long Island Sound Programs (OLISP) using two sources: the 1994 Ramsar Tidal Wetlands Mapping; and the 1995 OLISP Tidal Wetlands Mapping. The tidal wetland boundaries are not regulatory boundaries, but rather a guide to the location of tidal wetlands throughout the state. The data layer shows the presence/absence of tidal wetlands, and does not provide information on type of tidal wetland. Information on the location of mapped freshwater wetlands for the state of Connecticut is not provided by CT DEP.

For New York, online data for tidal wetlands were obtained from the NY State GIS Clearinghouse. The data were obtained as an ArcGIS shapefile entitled *Tidal Wetlands – NYC and Long Island – 1974*, produced by NYSDEC (2005). This data layer represents the most recent digital mapping of tidal wetlands for the study area. The data were produced by NYSDEC by digitizing the official 1974 tidal wetlands inventory maps. Categories of tidal wetlands include the following:

- Dredged spoil – All areas of fill material (regulated area).
- Formerly connected - The tidal wetland zone in which normal tidal flow is restricted by man-made causes.
- Fresh marsh - The tidal wetland zone found primarily in the upper tidal limits of riverine systems where significant freshwater inflow dominates the tidal zone (regulated area).
- High marsh - The normal uppermost tidal wetland zone usually dominated by salt meadow grass, Spartina patens and Distichlis spicata. This zone is periodically flooded by spring and storm tides (regulated area).
- Intertidal marsh - The vegetated tidal wetland zone lying generally between average high and low tidal elevation in saline waters (regulated area).
- Coastal shoals, bars and mudflats - The tidal wetland zone that at high tide is covered by saline or fresh tidal waters, at low tide is exposed or is covered by

water to a maximum depth of approximately one foot, and is not vegetated (regulated area).

Freshwater wetland data in New York were obtained from the Cornell University Geospatial Information Repository (CUGIR). The data were obtained as an ArcGIS shapefile entitled, Freshwater Wetlands, produced by NYSDEC (2010). DEC based the data layer on the official NYS Freshwater Wetlands Maps (and updates) as described in Article 24-0301 of the Environmental Conservation Law. The wetland lines indicate the approximate location of the actual boundaries of the wetlands. The data layer shows the presence/absence of freshwater wetlands, and does not provide information on type of wetland.

Wetland data for sites in Rhode Island were obtained online from Rhode Island GIS. The ArcGIS shapefile, Wetlands of Rhode Island, was produced by RI GIS using aerial photography from 1988 (RI GIS, 2010). Categories of wetlands at the project sites include the following:

- Emergent wetland – marsh/wet meadow
- Estuarine emergent wetland
- Marine/estuarine rocky shore
- Marine/estuarine unconsolidated shore
- Palustrine open water
- Scrub-shrub wetland – shrub swamp

2.2.3 State and Federally Listed Species Habitat

Like the wetlands data layers, information on State and Federally listed rare, threatened, and endangered species were obtained from online sources. Sites containing habitat for rare species are indicated in the summaries provided in Section 4.0. Habitat locations for areas in Connecticut were obtained as an ArcGIS shapefile from the CT DEP Natural Diversity Database Areas layer (CT DEP, 2010). The data represent general locations of endangered, threatened and special concern species and significant natural communities. The layer, which is updated every 6 months, is based on information collected by CT DEP staff, cooperating scientists, conservation groups, and landowners. The locations provided for the species are created by randomly shifting the true locations of each species and then adding a 0.25 mile buffer distance to each point. Thus, the exact location of the species or community falls somewhere within the polygon area and not necessarily in the center. Species names are not provided in the data layer to protect sensitive species from collection and disturbance.

State and Federally listed species habitat areas for New York were obtained from the New York Natural Heritage Program (NYNHP). A series of three related ArcGIS shapefiles were supplied directly by the NYNHP for locations in the final site inventory. The following types of information are included:

- Records of rare plants and animals last documented since 1980, for which relatively precise locations are known.
- Records of rare plants and animals either last documented before 1980 (historical records), and/or records for which precise or relatively precise locations are not known.
- Records of significant natural communities having high ecological and conservation value.

To facilitate display of the information, data from these three data layers were combined into one shapefile. Species names are not provided in the data layer to protect sensitive species from collection and/or disturbance.

Information for Rhode Island State and Federally listed species habitat was obtained from RI Department of Environmental Management (RI DEM) GIS as the ArcGIS shapefile entitled, Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990). This data layer contains information on estimated habitat and range of rare species and noteworthy natural communities in Rhode Island. The delineations were estimated, based on actual data for rare species, as well as knowledge of the biology of the species. The boundaries were also enlarged to include reasonable buffers from 200-500 feet from development, non-compatible land uses, pollutions sources, etc. As with the other states, species names are not provided to ensure adequate protection of the plants and animals.

2.2.4 Soils Data

Soils data were obtained for dewatering sites, and redevelopment sites. Soils properties are important for these types of sites, where construction of dikes, dewatering basins, or other types of development depends on soil properties. Mapped soil types for each parcel were obtained from the US Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) online (USDA, 2010). Mapped soil types are indicated in site summaries for the dewatering and redevelopment sites in Section 4.0, and a detailed description of soil properties, including engineering properties is included in Appendix A.

2.2.5 Flood Zone Data

FEMA flood zone information was obtained from the Map Service Center available on line (FEMA, 2010). FEMA flood zone designations (V-zone, A-zone) were determined for each of the dewatering and redevelopment sites. The A-zone is the land area subject to flooding during a 100-year storm event. The velocity flood zone, or V-zone, includes land areas subject to flooding during a 100-year storm event, where additional hazards due to storm-induced wave action are also likely. The sites in this report are classified as with “VE” and “AE” designations. The “E” in the VE and AE zone designations refers to the known elevation of the 100-year storm event. In a VE zone, for example, the land is subject to wave action during the 100-year storm event, and the expected elevation of the water during the storm is known.

These FEMA flood zones are used in planning, permitting, and insuring coastal land, and would be important factors to consider when planning projects such as dewatering or redevelopment. The flood zone designations for sites within the 100-yr floodplain are presented in the site summaries in Section 4.0.

2.2.6 Zoning Information

Information on municipal zoning for locations in the final site inventory was obtained from online research. Data sources included Town/Borough web sites, as well as public tax assessor databases such as Vision Appraisal and NYC Finance. Zoning information is presented for each location in the site summaries in Section 4.0.

2.2.7 Cultural Resources

Information on cultural resources for locations in the final site inventory was gathered from the recently completed Cultural Resources Inventory prepared for the LIS DMMP (USACE, 2010). The Cultural Resources Inventory covered areas underwater within one-half mile of the shoreline and inland a distance of 10 miles. As such, the majority of sites within the final site inventory were included in the Cultural Resources Inventory. Potential sites for dredged materials placement or dewatering were compared with ArcGIS shapefiles for cultural resources for the following types of information:

- Historic Cultural Resources - Locations of all recorded archaeological sites (terrestrial and underwater), and historic districts, sites, buildings, structures, and objects listed or eligible for listing in the National Register of Historic Places.
- Terrestrial Archaeological Sites – Locations of all recorded aboveground archaeological sites (Confidential – Not for Public Distribution).
- Marine Archaeological Sites – Locations of all recorded underwater archaeological sites (Confidential – Not for Public Distribution).

Any site or parcel from the final site inventory that contained one or more of the cultural resources listed above was identified and noted in the site summaries provided in Section 4.0. Marine archaeological sites within one half mile of the shore were included for coastal sites included in this investigation. Appendix B provides a summary of the types of cultural resources present and also identifies the sites included in this study that were not considered under the Cultural Resources Inventory (USACE, 2010).

2.3 SITE VISITS

Site visits were conducted between June 21 and August 4, 2010. Prior to the site visits, the various site owner/operators were contacted to secure access to the area and to obtain information on current use and acceptability of dredged material placement.

During the site visits, information on physical characteristics, including site size, condition, current use, abutting property conditions, site access, wetlands, and other readily apparent resources was collected and recorded on field data sheets. Photographs were taken to characterize the sites. Field data sheets and site operator interviews are included in Appendix C.

For beaches, additional information collected on-site included grain size, type and condition of erosion control/shore stabilization structures, berm width and location, dune characteristics, and offshore features such as mooring fields or navigation channels.

For the habitat restoration sites, the USACE project manager was interviewed to obtain information on existing conditions, prior conditions, purpose and nature of the restoration project, any particular species expected to benefit from the project, specific requirements for dredged material placement, and interested agencies or groups. Because of the offshore nature of the habitat restoration sites, field visits were limited to viewing the sites from onshore vantage points.

At landfills, site managers were interviewed to obtain information on acceptability of dredged material at the site, site capacity, tipping fees, and times of day/week/year when material is accepted. A questionnaire for landfill operators was completed during the site visits, and a copy of each completed questionnaire is provided in Appendix C.

At the redevelopment locations, site managers were interviewed to obtain information on the project plan for redevelopment, potential use for dredged material, types of material accepted at the site, and timeframe for redevelopment. A questionnaire for redevelopment site operators was completed during the site visits, and a copy of each completed questionnaire is provided in Appendix C.

At the dewatering locations, site managers were interviewed to obtain information on current and historical land use, availability of the site for dewatering, access by water, rail and land, shoreline stabilization, potential staging and dewatering areas within the parcel, and presence/absence of wetlands or other sensitive environmental resources on the site. Operator questionnaires were completed during the site visits, and a copy of each completed questionnaire is provided in Appendix C.

2.4 SITE CAPACITY CALCULATIONS

Site capacity calculations for placement of dredged materials were performed for beaches and dewatering sites. Calculations were not required for habitat restoration sites, landfills, redevelopment/construction sites, or the mine reclamation site since capacities to store material at these sites were provided by the site operators or the associated planning documents. Methodologies utilized for the site capacity calculations were developed during the early stages of the project through consultation with the USACE. Details of the calculation procedures and assumptions were provided in two separate memoranda, which were reviewed and discussed with the USACE (Appendices D and E). The following sections describe briefly the methods used to estimate capacity for beaches and dewatering sites.

2.4.1 Beach Capacity Calculations

The potential for various beaches throughout the study area to accept dredged material was determined using information gathered during the site visits, interviews with site operators, and review of aerial photography. Although present day conditions on the sites did not always suggest an immediate need for beach nourishment, capacity

calculations were performed where feasible, to mitigate against future erosion and storm damages, and to enhance the recreational resource.

The general approach for the beaches was to estimate a nourishment volume per unit beach length (cy/linear ft of beach), and to multiply this by the length of beach to be nourished. The unit nourishment volume was obtained by superimposing a basic beach nourishment template on the existing beach profile, and then computing the area between the two beach profiles. In Figure 3 this area is represented by the orange colored beach nourishment area.

It was assumed that the profiles of the existing beaches could be described using equilibrium beach profile theory. This assumption was necessary since actual field surveys of beach conditions at each site were not available. The equilibrium beach profile is estimated using the empirical equation:

$$h(x) = Ax^{\frac{2}{3}}$$

where $h(x)$ is the depth below the mean water surface, x is the cross shore distance, and A is a sediment scale parameter that can be related to physical properties of the beach sediment. Many studies have been conducted relating the sediment scale parameter to the median size of beach sediment (USACE, 2002).

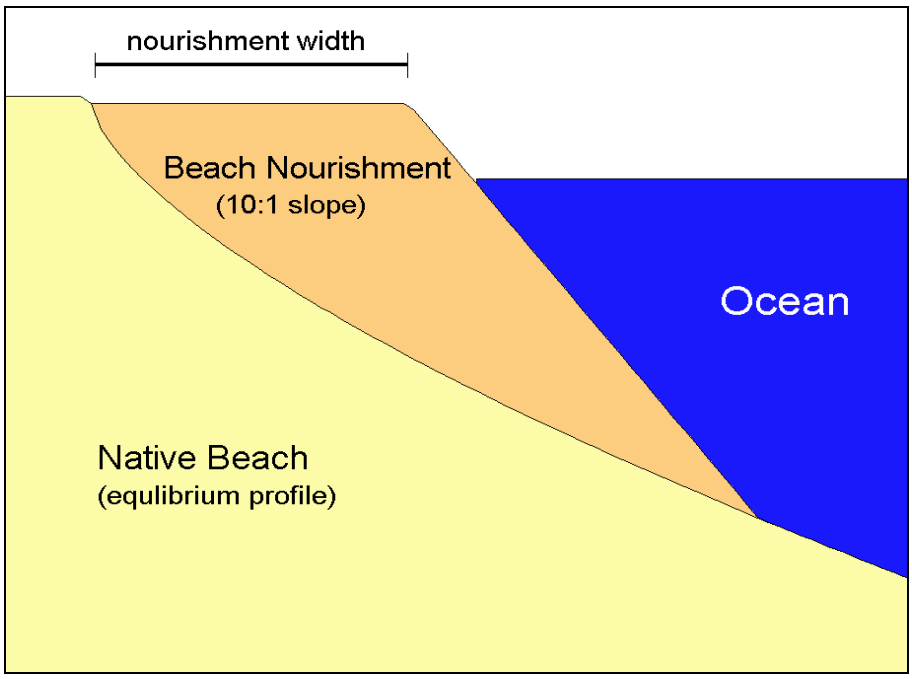

Figure 3. Example Equilibrium Beach Profile for Native Beach and Assumed Beach Fill Profile.

Appropriate values for the sediment scale parameter were chosen based on observations of sediment grain size made during the site visits. The size characteristics of the native

beach sand were determined visually according to the Wentworth size classification scheme and recorded on the field notes. Observations were made from the intertidal portion of the beach and samples were also collected for future reference. The sediment grain size data were then used to select appropriate sediment scale parameters (A). The equilibrium beach profile, or beach slope, was then calculated for each beach site.

Parameters for the beach nourishment, including length and berm width, were determined using criteria described in Appendices D and E. The criteria were based on conditions documented during the site visits, review of parcel boundaries and aerial photography, and professional engineering judgment. In most cases, the nourishment lengths were designed to extend across the entire beach parcel. Exceptions were made in areas with sensitive wetland resources where buffers were applied to protect the resources. Nourishment lengths were also reduced on beaches without terminal engineering structures that were located updrift of navigational channels or areas in need of tidal flushing.

Berm width for the beach nourishment templates was determined using best professional judgment. In general, the berm widths were set equal to 10% of the nourishment length, but not more than 100 feet wide. Certain modifications to this standard were made using the following site specific criteria:

- Berm widths for beaches located downdrift of a terminal structure protecting a navigational channel were set to the smaller of (a) 10% of the nourishment length, (b) 100 feet, or (c) distance between shoreline and end of terminal structure.
- Berm widths for beaches without terminal structures and away from navigational channels were set to 10% of the nourishment length, with a maximum of 100 feet.
- Berm widths for beaches located updrift of terminal structures protecting navigational channels, where the structure is nearly filled to entrapment, were set to zero. Beach nourishment was not recommended in these cases and nourishment capacities were not computed.
- Berm widths for beaches located updrift of terminal structures protecting navigational channels, where the structure is not filled to entrapments, were set using best professional judgment to be approximately one-half to two-thirds the distance between the shoreline and the end of the terminal structure.
- Berm widths for beaches with terminal or intermediate structures, where the 10% rule does not fill the structure to entrapment, were widened to bring the nourishment out to the end of the structure.

Beach nourishment lengths and berm widths chosen for each of the sites are provided in the site summary tables and aerial photographs presented in Section 4.0.

Once the parameters for the nourishment were determined, the basic beach nourishment template was developed by extending the existing beach berm horizontally a distance equal to the design berm width, and grading the material down to the native profile using a 10:1 nearshore slope. As shown in Figure 3, the area above the native equilibrium profile and below the beach nourishment profile was calculated as the nourishment

volume per unit beach length. Finally, site capacity was determined by multiplying the unit nourishment volume by the selected nourishment length.

The methodology used to compute the beach nourishment volumes generates conservative values (on the low end) in terms of overall site capacity. In most cases, the beaches in the study area could hold an additional volume of material on the upper beach face above the berm, or in dune areas at the landward edge of the beach. However, without site specific survey information to define the geometry of these areas, it was not possible to refine the volume calculation procedure to account for the increased capacity at the various sites. Instead, the computed beach nourishment volume was considered the low end for site capacity, and a high end was computed by increasing the volumes by 35%. The analysis herein is for planning purposes, and should not be considered a substitute for proper site-specific beach nourishment design. A summary of site capacity for the beaches in cubic yards (rounded to the nearest 100 cubic yards) is provided in the results Section 3.1, and in the site summaries presented in Section 4.0 for each beach.

2.4.2 Dewatering Site Capacity

Dewatering site capacity calculations were performed to estimate the maximum amount of material that could be dewatered on a given parcel. While actual designs for dewatering sites must consider site-specific information on dredged material properties, as well as the size and characteristics of areas available for building dikes and effluent control, this project involved making approximate capacity estimates using a number of assumptions. The following basic assumptions regarding the dewatering sites and the retaining dikes were made:

- Dikes have a 2:1 horizontal:vertical side slope,
- Dikes have a maximum crest height of 12 feet,
- Dikes have a minimum crest width of 12 feet,
- Dikes are set back 50 feet from parcel boundaries and 100 feet from wetland boundaries,
- Maximum height of the dredged material will be 3 feet below the crest of the dike.
- The parcel on which the dewatering facility is constructed is flat and level, and has a means to accommodate effluent runoff.
- The entire dewatering facility is a single basin, as large as possible, that will be filled with dredged material in a series of individual lifts.

The analysis did not consider the complex processes or duration of time involved in achieving the final volume, nor the specifics on internal dikes that could facilitate drainage and drying. Rather it calculated the total capacity of fully dewatered and consolidated sediment in a single basin. For large sites with capacity over 50,000 cy, the total volumes were reduced by 10% to allow for internal dikes and related drainage structures. It was assumed that the dewatering facility would be filled in lifts with consolidated depths of 3 feet. Therefore, sediment fill depths of 3, 6, or 9 feet were considered for dike crest elevations of 6, 9 and 12 feet, respectively.

Figure 4 shows an example cross section of a dewatering basin with a dike crest elevation of 12 feet and total fill depth of 9 feet. A setback of 50 feet from the outer edge of the dike to abutting properties is shown, and a setback of 100 feet is provided from the dike edge to wetland areas. Figure 5 shows an example plan view of an irregularly shaped parcel where the fill area of the parcel is indicated as well as the area required for setbacks and dike construction.

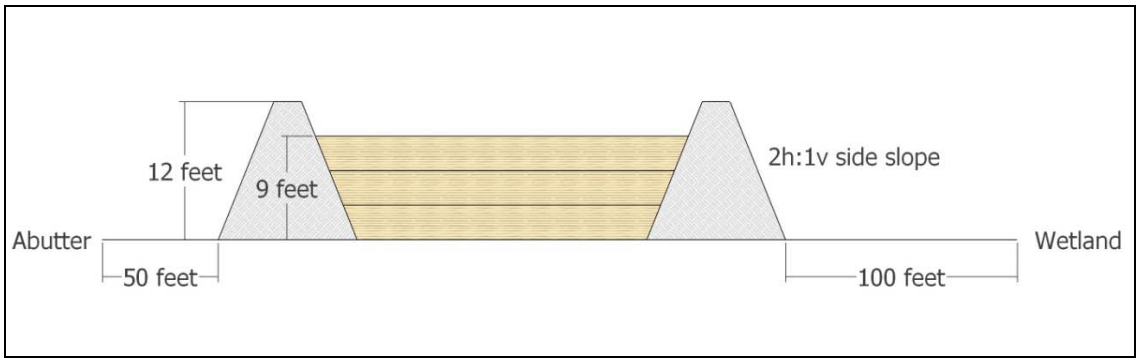

Figure 4. Example Dewatering Basin Cross-Section.

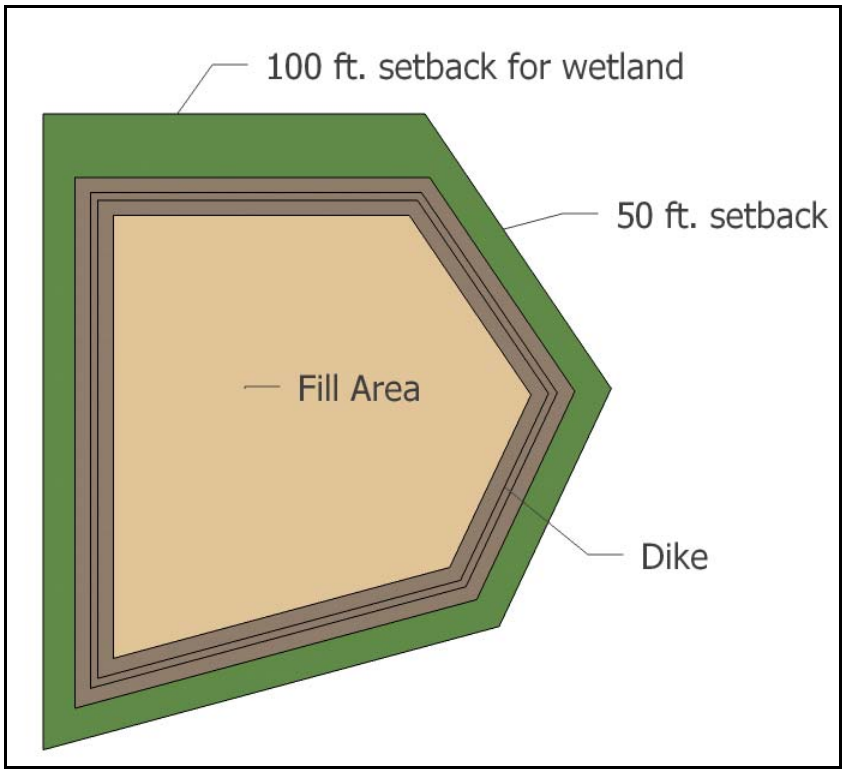

Figure 5. Example Dewatering Basin Plan View.

Since the maximum site capacity is highly dependent on the size and geometry of the parcel, it was necessary to calculate capacities assuming different scenarios for dike

height and fill depth. For example, relatively small sites can hold a greater volume of dredged material with fewer lifts and smaller dikes. Figure 6 shows how the fill area varies with site width for a cross section similar to that shown in Figure 4, assuming the three different fill depths of 3, 6, and 9 feet. For a site width of 210 feet, greater capacity is available with 9 foot high dikes than with 12 foot high dikes, when taking into account the setback distances and required footprint of the dikes. As such, dewatering site capacity calculations were performed for all scenarios of dike height and fill depth, and the conditions producing the greatest capacity were selected to report the maximum capacity.

Areas available for dewatering were determined using the parcel boundaries and wetland delineations mapped and observed in the field. Setback distances to parcel edges and wetlands, according to the criteria provided above, were applied to the available dewatering areas. In addition, a minimum one-quarter acre was reserved outside the dewatering area, for staging such as storage of trucks, equipment, pipeline, and to support work on constructing and maintaining drainage features. Summary results from the dewatering capacity calculations (rounded to the nearest 100 cubic yards) are provided in Section 3.5, and in the individual site summary reports in Section 4.0.

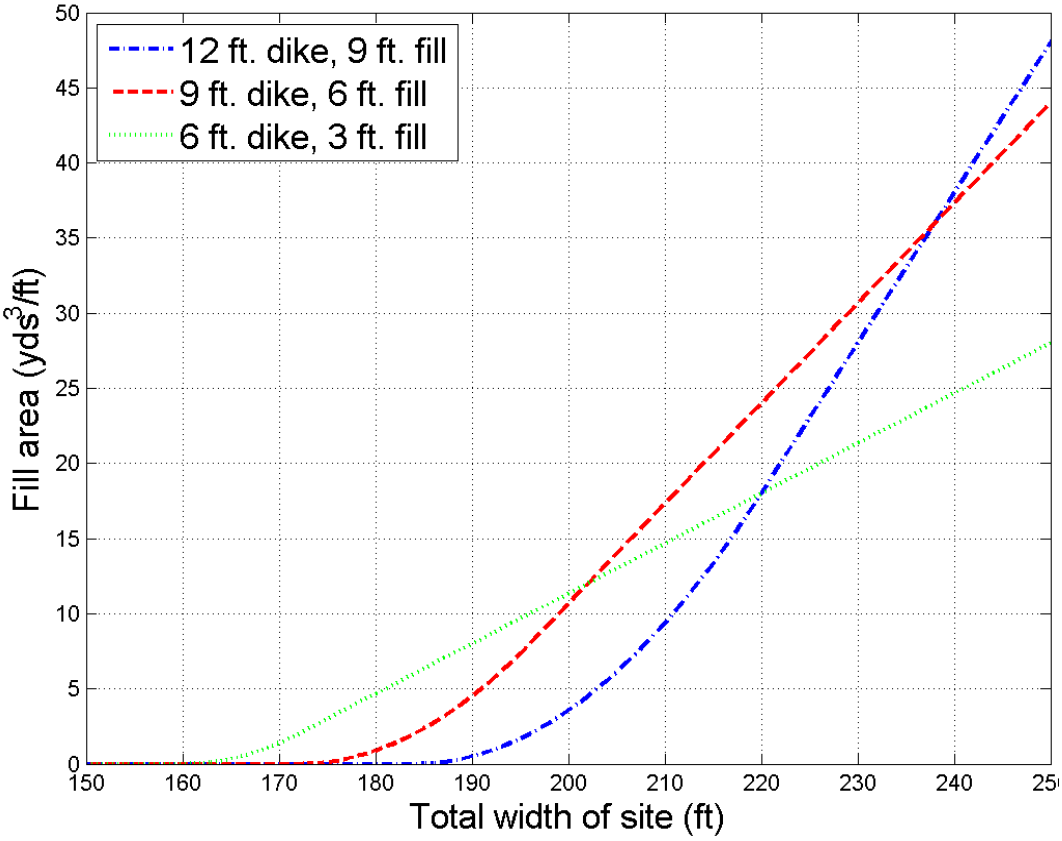

Figure 6. Site Width Versus Fill Area for Various Dike and Fill Heights.

2.5 SITE SUMMARIES

Information gathered during the field investigations and operator interviews was combined with the capacity data to produce site summaries for each location. For all sites, the summary information also included figures illustrating site features. These site summaries include the following types of information:

- An aerial image of the site and surrounding environment showing parcel boundaries, mapped wetlands and Federal and State listed habitat areas.
- An aerial image of the site showing the selected locations for beach nourishment, or a generalized layout for the dewatering basin, dikes, and staging areas.
- A summary table of relevant information about each site.
- Photographs with descriptions collected during the site visits.
- An aerial image of the site showing parcel boundaries for the work area and abutters, as well as parcel ID numbers such as Map/Block/Lot (MBL) or Borough/Block/Lot (BBL), etc.

The various types of sites required slightly different types of information. For example, beach sites required a grain size description, while habitat restoration sites required a list of species of concern that would benefit from the project. The type of site summary information gathered is described in Tables 5, 6, 7, 8, and 9 for beach, habitat restoration, landfill, redevelopment, and dewatering sites, respectively. Individual site summary reports are provided in Section 4.0.

Table 5. Beach Site Summary Information

Site Address	Street address for the parcel.
General Description	Identifies the type of beach (municipal, State, Federal Shore Protection), general location, and existing site use.
Ownership/POC	Identifies site ownership, operator, and telephone number.
Zoning	Identifies the local zoning information for the parcel.
Surrounding Land Use	Identifies land use on surrounding parcels that could affect a dredged material placement project.
Wetlands	Indicates whether mapped and/or observed wetlands occur on or near the site, as this affects project setbacks and permitting.
State and Federally Listed Species Habitat	Indicates whether mapped habitat for threatened, rare, or endangered species; or habitat of special concern occurs on or near the site.
Sediment Type	Describes sediment grain size characteristics determined by visual inspection following the Wentworth classification scheme.
Nourishment length	Length in feet of beach where nourishment was considered and site capacities calculated.
Design berm width	Width in feet of the finished berm at nourishment sites.
Capacity	Identifies volume of sediment site could accommodate, based on calculations described in Methods section of this report.
Site Access	Land – road from which the site would be accessed. Water – waterbody from which the site would be accessed.
Staging Area	Describes potential staging area(s) on or adjacent to the work area.
Additional Considerations	Identifies shoreline stabilization structures on the beaches (groins, jetties). Provides additional information on beach physical characteristics, resource areas such as fringing marsh or rocky outcrops that would potentially control where nourishment could be placed. Discusses any other considerations relevant to beach nourishment.

Table 6. Habitat Restoration Site Summary Information

Site Address	Street address for the parcel.
General Description	Identifies the general location and type of restoration for the habitat restoration sites.
Ownership/POC	Identifies site ownership, operator, and telephone number.
Agencies/groups involved in project	Identifies entities sponsoring or involved in the restoration project.
Zoning	Identifies the local zoning information for the parcel.
Surrounding Land Use	Identifies land use on surrounding parcels that could affect a habitat restoration project.
Wetlands	Indicates whether mapped and/or observed wetlands occur on or near the existing site.
Existing Condition	Indicates current habitat conditions on the site.
Prior Condition	Indicates prior habitat conditions and need for restoration.
State and Federally Listed Species Habitat	Indicates whether listed species habitat occurs on or near the site.
Species of Concern Expected to Benefit From Project	Indicates the species that will benefit from the expected habitat enhancement provided by the project.
Staging Area	Describes any potential or available staging areas on or near the site.
Capacity	Identifies volume of dredged material needed for restoration project (estimates from USACE project plans).
Additional Considerations	Provides additional information on site physical characteristics, resource areas, or particular issues of concern for the site. Identifies constraints on dredged material placed on the site (i.e. grain size requirements, percent fines accepted, etc.). Provides additional background on the site as a restoration project.

Table 7. Landfill Site Summary Information

Site Address	Street address for the parcel.
General Description	Identifies the general location and status of the landfill.
Ownership/POC	Identifies site ownership, operator, and telephone number.
Zoning	Identifies the local zoning information for the parcel.
Surrounding Land Use	Identifies land use on surrounding parcels that could affect a dredged material placement project.
Wetlands	Indicates whether mapped and/or observed wetlands occur on or near the site, as this affects project setbacks and permitting.
State and Federally Listed Species Habitat	Indicates whether mapped habitat for threatened, rare, or endangered species; or habitat of special concern occurs on or near the site.
Types of Material Accepted	Describes general types of material landfill can accept.
Acceptability of Dredged Material, and Type of Use	Identifies whether dredged material can be accepted at the site, and intended use at the landfill (capping, daily cover, etc.).
Tipping Fees	Identifies unit cost for placement of dredged material.
Landfill Capacity and Design Years	Identifies total landfill capacity in cubic yards, and if available, information on the capacity for dredged material specifically. Also identifies active life of landfill or timeframe for closure.
Site Access	Identifies roadway access to site.
Restrictions on Time of Day or Year	Identifies any restrictions on timing of dredged material drop off and hours of operation.
Additional Considerations	Describes any constraints to dredged material placement at the site.

Table 8. Redevelopment/Construction Site Summary Information

Site Address	Street address for the parcel.
General Site Description	Identifies the general location and type of redevelopment or construction project.
Ownership/Developer POC	Identifies site ownership, operator, and telephone number.
Development Project	Describes the development project plan and use for dredged material.
Zoning	Identifies the local zoning information for the parcel..
Surrounding Land Use	Identifies land use on surrounding parcels that could affect a dredged material placement project.
Wetlands	Indicates whether mapped and/or observed wetlands occur on or near the site, as this affects project setbacks and permitting.
State and Federally Listed Species Habitat	Indicates whether listed species habitat occurs on or near the site.
Staging Area	Describes any potential or available staging areas on or near the site.
Capacity and Intended Use for Dredged Material	Identifies capacity estimate for fill material in cubic yards, and intended use for material at the site.
Timetable for Redevelopment	Identifies the expected timing of redevelopment and receipt of fill material at the site.
Land Access	Identifies access by road and/or rail.
Limitations to Truck or Heavy Equipment Use	Describes any limitations on access for trucks and heavy equipment.
Water Access	Identifies access via adjacent water, if there is one. Also identifies water depth if there is access for barges.
Additional Considerations	Describes any features of the project that pertain to dredged material placement, such as contaminant issues, grain size limitations, etc.

Table 9. Dewatering Site Summary Information

Site Address	Street address for the parcel.
General Description	Identifies the general location and existing use of the site.
Ownership/POC	Identifies site ownership, operator, and telephone number.
Zoning	Identifies the local zoning information for the parcel.
Surrounding Land Use	Identifies land use on surrounding parcels that could affect a dredged material placement project.
Wetlands	Indicates whether mapped and/or observed wetlands occur on or near the site, as this affects project setbacks and permitting.
State and Federally Listed Species Habitat	Indicates whether listed species habitat occurs on or near the site.
Mapped Soils	Indicates mapped soil type(s) at the site, based on Natural Resources Conservation Services soil survey data. Engineering properties of these soils as they pertain to construction of dikes and soil drainage properties are given in Appendix A.
Staging Area	Describes any potential or available staging areas on or near the site.
Dewatering Capacity	Identifies the total dewatering capacity in cubic yards, estimated using site characteristics and setbacks.
Land Access	Identifies access by road and/or rail.
Water Access	Identifies access via adjacent waterbody, if there is one.
Additional Considerations	Describes any constraints to dewatering, or factors that may make the site favorable. Identifies the feasibility of dewatering at the sites according to three classifications: (i) currently feasible, (ii) potentially feasible in the future, or (iii) not feasible.

3.0 RESULTS

Review of the 102 sites developed as part of the final site inventory in Section 2.1 yielded 90 potential upland and beneficial use sites with capacity for dredged materials. Of these 90 sites identified with capacity, 44 are located in Connecticut, 40 in New York, 5 in Rhode Island, and 1 in Pennsylvania (Table 10). The majority of sites in Connecticut are beaches, with a total of 37 municipal/county, state, or Federal Shore Protection beach sites. Similarly, beaches comprise the greatest number of sites in New York, with a total of 25 municipal/county, state, or Federal Shore Protection sites with capacity for dredged material. Rhode Island has a total of 3 beaches with capacity. Four landfill sites, 2 in Connecticut and 2 in New York, were identified as potential locations. Two habitat restoration sites that will accept dredged material were identified in New York. The dewatering sites were classified as currently feasible or potentially feasible in the future. Of these viable sites, Connecticut has 2 locations that are currently feasible and 3 with potential in the future. New York also has 2 locations that are currently feasible, with 7 additional sites that are potentially feasible in the future. Rhode Island has 2 sites that are potentially viable in the future.

Table 10. Upland, Beneficial Use, and Dewatering Sites with Capacity to Accept Dredged Material

Category	CT	NY	RI	PA	Total
Beach – Municipal/County	17	10	2	0	29
Beach – State	2	8	0	0	10
Beach – Fed. Shore Protection	18	7	1	0	26
Mine	0	0	0	1	1
Landfill	2	2	0	0	4
Redevelopment/ Construction	0	2	0	0	2
Habitat Restoration	0	2	0	0	2
Dewatering					
Currently feasible	2	2	0	0	4
Potentially feasible in future	3	7	2	0	12
Total	44	40	5	1	90

Site capacities determined for each location are provided in the following sections, along with brief summaries and relevant information for each type of placement site.

3.1 BEACHES

Specific beach sites with capacity for dredged materials placement are shown in Table 11. The beach nourishment volumes presented in Table 11 provide both a conservative low-end estimate calculated using the equilibrium beach profile theory methodology, and a higher estimate that adds 35% more material to account for nourishment capacity on the upper beach face and dune area.

At several sites, beach nourishment designs have been completed by the USACE or DEP offices in preparation for shore protection projects. In these cases, the nourishment volumes computed as part of the engineering design are reported in Table 11, as they provide the most up to date values on the capacity for dredged materials.

In general, most of the beaches considered in this study have capacity for clean, beach-compatible sand in the medium to coarse-grained size range. Total site capacity for beaches in the study area ranges between 4.9 and 6.0 million cy. Three of the beaches in this study were not considered viable sites for beach nourishment. Two of these are surrounded by fringing marsh and the placement of beach nourishment would adversely impact the resource (Sites 443 and 470). The third, Site 81, is located updrift of a jetty that protects a navigation channel into Mattituck Harbor, and the existing beach has already filled the jetty to entrapment. In this case, the USACE NY District is evaluating alternatives to artificially bypass sediment from the updrift side of the harbor to the downdrift side. As such, nourishment was not considered at this site.

Table 11. Beach Nourishment Site Capacities

Site ID	State	Town	Site Name	Nourishment Volume (cy)	Nourishment Volume +35% (cy)
323	CT	Bridgeport	Seaside Beach	130,900	176,700
433	CT	Fairfield	Southport Beach	15,700	21,200
434	CT	Fairfield	Sasco Hill Beach	6,300	8,500
436	CT	Fairfield	Jennings Beach	24,700	33,400
443	CT	Guilford	Guilford Point Beach	Not considered viable	
365	CT	Madison	Hammonasset State Park	562,700*	562,700*
457	CT	Madison	East Wharf Beach	4,300	5,700
364	CT	Milford	Silver Sands State Park	21,000	28,400
444	CT	Milford	Gulf Beach	5,300	7,100
451	CT	Milford	Woodmont Shore Beach	500	700
337	CT	New Haven	Lighthouse Point Park Beach	3,400	4,600
320	CT	Norwalk	Calf Pasture Beach	31,900	43,000
441	CT	Stamford	Cove Island Beach	20,100	27,100
442	CT	Stamford	Cummings Park Beach	38,700	52,200
450	CT	Stratford	Short Beach	54,400	73,500
447	CT	West Haven	Prospect Beach	63,100	85,300
438	CT	Westport	Burial Hill Beach	2,800	3,700
440	CT	Westport	Compo Beach	65,800	88,800
449	CT	Westport	Sherwood Island State Park	71,400	96,300
181	NY	Bronx	Orchard Beach	33,750*	33,750*
453	NY	East Hampton	Lake Montauk Harbor	400,000*	400,000*
63	NY	Huntington	Asharoken Beach	600,000*	600,000*
456	NY	Oyster Bay	Bayville	77,200	104,200
454 East	NY	Southold	Hashamomuck Cove - County Road 48	162,800	219,800

Site ID	State	Town	Site Name	Nourishment Volume (cy)	Nourishment Volume +35% (cy)
454 West	NY	Southold	Hashamomuck Cove - Kenney's Beach	50,700	68,500
455 / 82	NY	Mattituck	Mattituck Harbor 111 / Bailie's Beach	100,000*	100,000*
384	RI	Westerly	Misquamicut State Beach	32,000	43,200
367	CT	East Lyme	Rocky Neck State Park	10,400	14,100
368	CT	Groton	Bluff Point State Park	131,200	177,100
171	NY	Wading River	Wildwood State Park	164,100	221,500
173	NY	East Hampton	Hither Hills State Park	319,600	431,500
177	NY	East Hampton	Shadmoor State Park	20,100	27,100
178	NY	East Hampton	Camp Hero State Park	76,900	103,800
179	NY	East Hampton	Montauk Point State Park	147,300	198,900
170	NY	Kings Park	Sunken Meadow State Park	160,600	216,800
180	NY	Orient	Orient Beach State Park	119,900	161,800
445	NY	Riverhead	Jamesport State Park	120,000	161,900
446	NY	East Hampton	Theodore Roosevelt County Park	427,400	577,000
343	CT	Clinton	Clinton Town Beach	1,200	1,600
474	CT	Fairfield	South Pine Creek Beach	100	100
339	CT	Guilford	Jacobs Beach	6,400	8,600
470	CT	Guilford	Chaffinch Island Park	Not considered viable	
459	CT	New Haven	Fort Nathan Hale Park	5,300	7,100
348	CT	Old Lyme	White Sands Beach	1,700	2,300
480	CT	Stonington	DuBois Beach	3,300	4,500
467	CT	Stratford	Long Beach	23,200	31,300
468	CT	Stratford	Russian Beach	31,700	42,800
325	CT	West Haven	Altschuler Beach	51,200	69,100
327	CT	West Haven	Bradley Point Park	11,600	15,600
329	CT	West Haven	Morse Beach	17,700	23,900
330	CT	West Haven	Oak Street Beach	17,700	23,900
331	CT	West Haven	Peck Beach	29,800	40,200
332	CT	West Haven	Sandy Point	27,700	37,400
333	CT	West Haven	Savin Rock	1,800	2,400
344	CT	Westbrook	Middle Beach	600	900
345	CT	Westbrook	West Beach	42,200	57,000
121	NY	East Hampton	Gin Beach	9,000	12,200
64	NY	Huntington	Hobart Beach	128,800	173,900
67	NY	Huntington	Crescent Beach (Huntington)	3,600	4,800
68	NY	Huntington	Gold Star Battalion Beach	2,400	3,200
81	NY	Mattituck	Breakwater Park Beach	Not considered viable	

Site ID	State	Town	Site Name	Nourishment Volume (cy)	Nourishment Volume +35% (cy)
111	NY	Shelter Island	Crescent Beach (Shelter Island)	23,900	32,200
76	NY	Southold	Southold Town Beach	23,200	31,300
79	NY	Southold	Gull Pond Beach (Norman E. Klipp Park)	14,400	19,500
381	RI	Westerly	Watch Hill Beach	22,600	30,500
382	RI	Westerly	Napatree Point Beach	68,100	91,900
437	NY	Southold	Plum Island	41,600	56,100
			TOTAL	**4,935,500**	**6,068,550**

* Nourishment volume obtained from USACE or DEP engineering design.

3.2 HABITAT RESTORATION SITES

Two of the four habitat restoration sites in the study (Jamaica Bay Marsh Islands and Plumb Beach) have capacity for dredged material. The remaining two (Gerritson Creek and White Island) have no additional capacity, as the material required for these projects has been placed onsite, and the habitat restoration projects are underway. The Jamaica Bay Islands have capacity for over 600,000 cy of clean sand, and Plumb Beach is in need of beach compatible sand both to stem the severe erosion along the beach and roadway, and to enhance the beach and dune habitat. For Plumb Beach, a USACE project design volume was not available for this report. Therefore a volume estimate was made based on the beach nourishment calculations presented in the methods section. Table 12 shows the fill capacity for the habitat restoration projects.

Table 12. Habitat Restoration Site Capacity

Site ID	State	Area	Site Name	Capacity (cy)
427	NY	Brooklyn	Plumb Beach	47,700 – 64,400
429	NY	Brooklyn & Queens	Jamaica Bay Marsh Islands	600,000 - 750,000
430	NY	Brooklyn	White Island	No additional capacity. Material has been placed.
431	NY	Brooklyn	Gerritsen Creek	No additional capacity. Material has been placed.
			TOTAL	**647,700 – 814,400**

3.3 LANDFILLS

Two of the landfills in the study do not accept dredged material; the others could accept dredged material for various uses, including fill (Site 59 only), daily cover, or as final cap material. The sites can accept fine-grained dredged material, although cap material is generally required to be higher in organics to support vegetative growth. Site 251 in Manchester, CT is the only landfill with the potential to accept contaminated dredged sediment. Under CT DEP regulations this would require a special application for a Special Waste Disposal Authorization. Tipping fees vary between landfills, and tend to be relatively high for dredged material. The costs associated with transport of dredged

material to the landfills would also need to be taken in to account. Table 13 lists the landfills and describes their potential for accepting dredged material.

Table 13. Landfill Sites

Site ID	State	Town	Site Name	Accepting Dredge Material	Comment
373	CT	Hartford	Hartford Landfill	No	Site operator indicates facility is undergoing final capping and will not accept dredged material.
251	CT	Manchester	Manchester Landfill	Yes	Under Special Waste Program, for daily cover and capping
272	CT	Windsor	Windsor-Bloomfield Landfill	Possibly	For final capping
61	NY	Brookhaven	Town of Brookhaven Landfill	Yes	For daily cover or capping
60	NY	Islip	Blydenburgh Rd Landfill	Unlikely	Site operator indicates prior problems with dredged material coming to the site.
59	NY	Melville	110 Sand Company	Yes	For daily cover or fill, but prefer freshwater sources

3.4 REDEVELOPMENT/CONSTRUCTION SITES

The redevelopment/construction sites in the study have capacity for material. One of the sites, Plum Island in NY, has no firm redevelopment plan at present, so the capacity could not be estimated for a redevelopment project. The site does have a beach area that has been nourished in the past with sediment dredged from the Plum Gut harbor. This area has capacity for more material, and was evaluated in terms of capacity for beach nourishment in Section 3.1 (Table 11).

The other sites evaluated, Flushing Airport and the Hazelton Mine reclamation site, both have capacity for dredged material. The Flushing Airport wetlands and uplands projects are required to use clean fill according to NYDEC TAGM 4046 criteria. Placement of fine-grained dredged materials is allowable, provided they meet these regulatory criteria. Fines can also be accepted at the Hazelton Mine site, as long as chemical analyses show that PA DEP O-05 and O-96 criteria have been met. Table 14 shows capacity at these sites.

Table 14. Redevelopment/Construction Site Capacity

Site ID	State	Town	Site Name	Capacity (cy)
422/423	NY	Flushing	Flushing Airport Wetlands and Upland	140,000
417	PA	Hazelton	Hazelton Mine Redevelopment	15,000,000
			TOTAL	**15,140,000**

3.5 DEWATERING SITES

Regarding dewatering sites, certain locations are feasible in the near-term, as they have both the required physical characteristics and a site owner/operator who is amenable to dewatering on the parcel. A total of 4 sites were identified in this "Currently Feasible" category; two sites in Connecticut and two in New York. Total storage capacity was computed as 193,100 cy.

Other sites were identified as potentially able to accommodate a dewatering site, but the current land use is not compatible with dewatering, and/or the site owner was not amenable to dewatering at the site. For these "Potentially Feasible in the Future" sites, a dewatering capacity was calculated, as there may be potential for dewatering at the site in future if the land use structure, or ownership changes. In other cases, the area originally identified for the site investigation was considerably larger than the area actually available for dewatering. These sites could have potential for smaller-scale dewatering facilities that may not be large enough for USACE use, but could be appropriate for private or smaller public dredging projects. These sites were also placed in the "Potentially Feasible in the Future" category. A total of 3 sites in Connecticut, 7 in New York and 2 in Rhode Island combine for an estimated dewatering site capacity of 2.6 million cy.

Lastly, five of the sites investigated are infeasible, as they have been recently developed, or are under land use restrictions that do not allow placement of dredged material. Table 15 shows the dewatering sites investigated, estimated fill volume, and whether they are feasible for either large- or small-scale dewatering.

Table 15. Dewatering Site Capacity

Site ID	State	Town	Site Name	Fill Volume (cy)	Comments
Currently Feasible					
CT-28	CT	New Haven	Anastasio Trucking Site	23,100	Site is viable for small-scale dewatering (~ 2 acres). Site has railroad and highway access, and is in close proximity to navigable waterway.
CT-54	CT	Norwich	P&W Railroad Co. Site	17,500	Site is viable for small-scale dewatering (~ 2 acres). Deep water and rail access on site.
NY-5-A	NY	Huntington	Northport Boat Ramp and Fields	122,000	Site is viable for dewatering. Northern end of parcel has been used for dewatering in the past. Site has deep water access.
NY-18	NY	Bronx	Barry St. Industrial Site	30,500	Site is viable for small-scale dewatering (~ 2.4 acres). Site has deep water, railroad, and highway access.
			TOTAL (Currently Feasible)	**193,100**	
Potentially Feasible in Future					
NY-5-B	NY	Huntington	Northport Power Station	63,000	Site is potentially viable for dewatering in the future. Current owner using property as lawn/grounds area, and does not anticipate changing use of site. Site is subject to US Coast Guard Maritime Security (MARSEC) requirements.
CT-30-A	CT	Hamden & North Haven	North Haven Tire Pond Site	99,600	South end of site possibly viable for dewatering in the future. South end of site is currently used as private recycling facility and a remediation site is located at the north end. No deep water access.
CT-8	CT	Fairfield	Fairfield Public Works Site	47,800	Site is potentially viable for dewatering in the future. Current use as town recycling facility and site operator does not anticipate near-term changes in land use. No deep water access.
NY-1	NY	Mattituck	Mattituck Agricultural Fields	2,085,000	Parts of site possibly viable in the future. Current use is private agriculture. Development rights on many parcels within this 16 parcel site have been sold, and are unavailable for dewatering. No direct access by water. Steep bluffs approximately 60 ft high with private residences between site and LIS.
NY-29	NY	North Hempstead	North Hempstead Aerodrome	39,900	Eastern end of site possibly viable for dewatering. Western portion of the site (aerodrome) is not viable due to landfill and methane capture system beneath field. Clearing/regrading of woodland would be required, and site is separated from the harbor by a major road (West Shore Rd.).

Site ID	State	Town	Site Name	Fill Volume (cy)	Comments
Potentially Feasible in Future (cont.)					
RI-5	RI	North Kingstown	Quonset Point North	102,200	Site is potentially viable for dewatering in the future. Currently site has a lease option with offshore wind development company.
NY-28	NY	Brookhaven	Shoreham Power Station	42,600	Site potentially viable for dewatering. Site is subject to US Coast Guard Maritime Security (MARSEC) requirements.
NY-7-A	NY	Glen Cove	Garvies Pt. Remediation Site	27,300	Western end of site possibly viable for small-scale dewatering (~2 acres). Site is part of Glen Cove Harborfront Revitalization Project and east end is currently being developed as a ferry terminal. Western end of site to be redeveloped within the next 4 years, and is possibly viable in the short-term.
NY-8	NY	North Hempstead	Glen Cove Industrial Site	11,000	West end of site possibly viable for small-scale dewatering (~1 acre). Current use for majority of the site is electrical transformer station and buried cable, and this part of the site is separated from the harbor by a major road (Shore Rd.). Bulkhead would need repair/replacement prior to use and site has soil contamination issues.
NY-3	NY	Northville	Northville Agricultural Fields	35,200	North end of site possibly viable in the future for small-scale dewatering (~4 acres). Current use is private agriculture. Development rights on most of the site have been sold and are unavailable for dewatering. No direct access by water. Steep bluffs approx. 60 ft high with private residences between site and LIS.
CT-41	CT	Ansonia	Ansonia Target Store	1,000	South end of site possibly viable in the future for small-scale dewatering (~ 0.2 acres). Current use for majority of site is shopping center and parking lot. South corner of site has no deep water access and surrounding area is retail/manufacturing and may not be compatible.
RI-4-C	RI	North Kingstown	Quonset Point South	87,800	Site is potentially viable for dewatering in the future. Currently site is used by Electric Boat for the manufacture of submarine components. Site has deep water access and possible dockage for barges.
TOTAL (Potentially Feasible in Future)				**2,642,400**	

Site ID	State	Town	Site Name	Fill Volume (cy)	Comments
Not Feasible					
CT-49 / 373	CT	Hartford	CRRA Hartford Landfill	n/a	Not feasible for dewatering. Landfill capping is almost complete, and site manager indicated the site will not be available for dewatering or placement of dredged material.
CT-35	CT	Stonington	Osbrook Point Agricultural Fields	n/a	Not feasible for dewatering. Parcel is in CT Farm Protection Program, which does not allow dewatering on site.
CT-50	CT	East Hartford	Goodwin College	n/a	Not feasible for dewatering. Parcel was recently remediated and developed into a college campus.
NY-10	NY	North Hempstead	Port Washington Landfill	n/a	Not feasible for dewatering. Closed/capped landfill. Site operator indicated site is not available for dewatering or placement of dredged material.
NY-16-B	NY	Queens	Queens Parking Garage	n/a	Not feasible for dewatering. Retail/shopping area covers entire site.

4.0 SITE SUMMARIES

Detailed summaries for each of the 102 sites in the final site inventory are presented in this section. Beaches are discussed first, followed by habitat restoration sites, redevelopment sites, a mine reclamation site, and finally dewatering sites. The information was compiled according to the methods and protocols outlined in Section 2.0.

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Site 323 Seaside Beach
Bridgeport, CT
N
Long Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
0
4000
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_323-2.ai

Site 323 Seaside Beach Bridgeport, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 4000
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-28-10
File: TO-0024_LIS_323-3.ai

Site 323 Seaside Beach

Bridgeport, CT

Site Address	350 Waldemere Ave., Bridgeport, CT
General Description	Federal Shore Protection area and large Municipal Beach in Bridgeport; parcel lies between Bridgeport Harbor on east side and Burr Creek at west.
Ownership/POC	City of Bridgeport, CT Charles Carroll, Parks and Recreation (203) 576-7233
Zoning	RA Residential Single Family Home
Surrounding Land Use	Residential; light industrial to north; marina and canal to northwest.
Wetlands	Yes. Mapped wetlands are present at end of sand spit at west of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers majority of site.
Sediment Type	Well sorted medium-grained sand with shell hash
Nourishment Length	9,120 ft
Design Berm Width	100 ft
Capacity	130,900 cy
Site Access	Land – Waldemere Ave to Barnum Rd (west end) or Soundview Rd. (east end). Approximately 1 mile to Rte. 95. Water – LIS
Staging Area	Potential staging areas in paved lots behind beach at east and west ends. Lots are relatively narrow but have room for staging.
Additional Considerations	Main section of beach has a rock revetment and seawall with walking path. At east end of parcel the beach has a small dune in back corner, and a sand tombolo just behind a stone breakwater. The point at the tombolo is rocky with little to no beach. A seawall with rip-rap continues around the point to the Bridgeport Harbor area. At the west end the beach terminates in a stone jetty with fringing marsh. Beach is bordered by a seawall that lies 2-3 ft above the berm. Burr Creek has a marina and boat basin. Sand spit at west end has wetland and endangered species habitat. No nourishment calculated for this area. Also, nourishment would not extend to rocky outcrop and tombolo at east side of beach, in order to avoid sediment transport to channel. Cultural resources present.

Site 323 Seaside Beach
Bridgeport, CT

Date: June 22, 2010

Direction: West

Description:

Main section of beach looking west.

Date: June 22, 2010

Direction: West

Description:

Central beach/recreation area. Stone revetment and seawall behind beach.

Site 323 Seaside Beach
Bridgeport, CT

Date: June 22, 2010

Direction: South

Description:

Sand tombolo and stone breakwater at east end of parcel.

Date: June 22, 2010

Direction: South

Description:

Staging area in paved lot at back of beach.

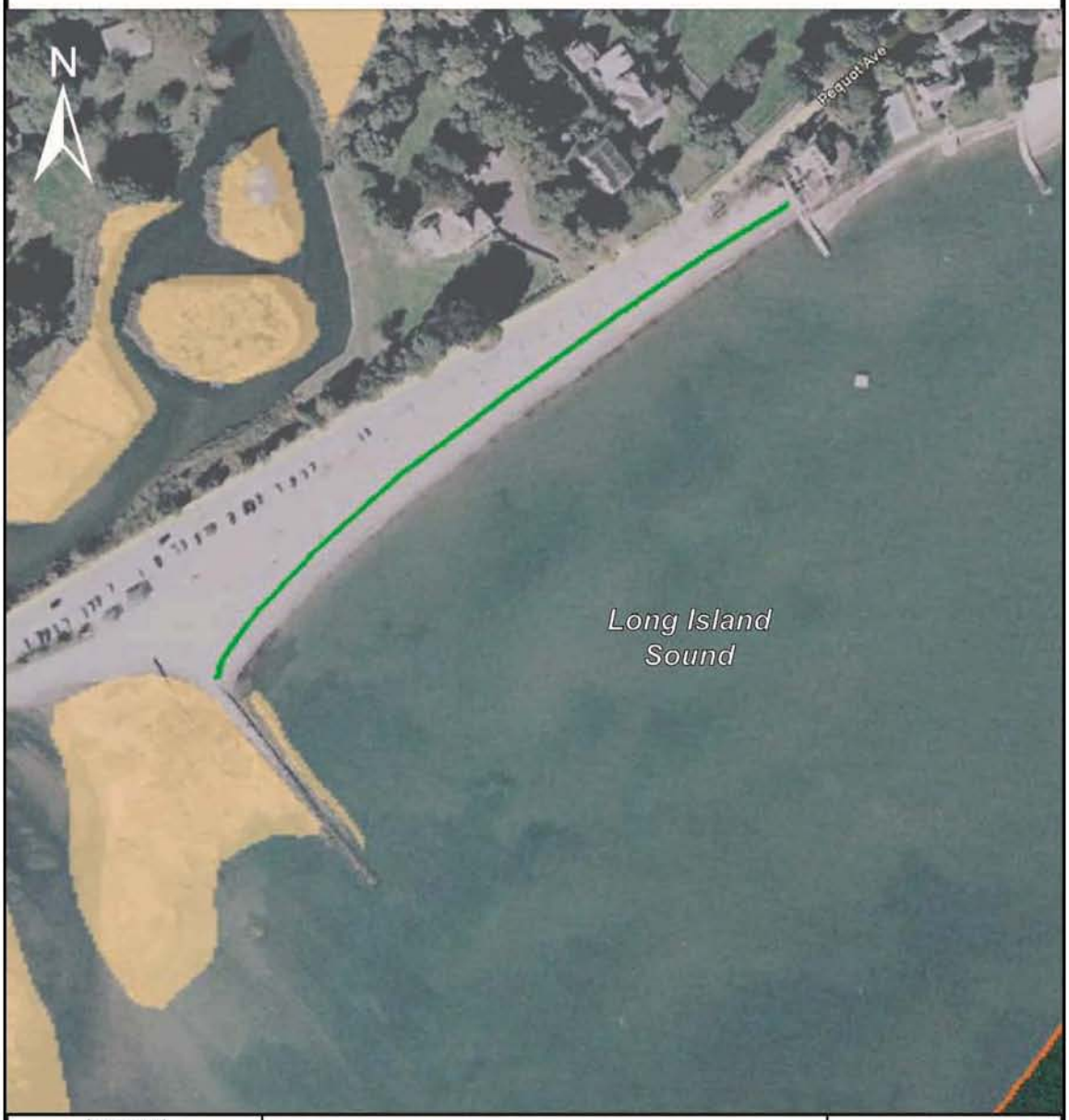
Parcel	MBL	Parcel	MBL
1	413-1	17	541-4
2	424-2A	18	541-5
3	436-1	19	540-4
4	437-2	20	540-5
5	437-2A	21	540-6
6	427-1	22	539-3
7	421-1	23	538-1
8	421-2	23	537-15
9	421-5	25	530-11A
10	421-3	26	531-12A
11	421-4	27	542-20
12	419-1	28	542-19
13	423-3	29	542-5
14	423-2	30	542-4
15	423-1	31	542-2A
16	541-6L	32	538-2
		33	537-4

Site 323 Bridgeport, CT

Seaside Beach


Site 433 Southport Beach
Fairfield, CT
N
Pequot Ave
Long Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0
500
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_433-2.ai

Site 433 Southport Beach
Fairfield, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
Nourishment Area

0 574
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_433-3.ai

Site 433 Southport Beach

Fairfield, CT

Site Address	105 Pequot Ave., Fairfield, CT
General Description	Federal Shore Protection site and Municipal Beach in Long Island Sound, just west of Southport Harbor.
Ownership/POC	Town of Fairfield, CT Richard White, Director of Public Works (203) 256-3010
Zoning	R-3 Residential
Surrounding Land Use	Residential; outlet to LIS from Sasco Creek Marsh at west end of parcel.
Wetlands	Yes. Mapped wetlands on west end of parcel and in tidal channel landward of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand
Nourishment Length	920 ft
Design Berm Width	80 ft
Capacity	15,700 cy
Site Access	Land – Pequot Ave. Rte 95 approximately ½ mile from site. Water - LIS
Staging Area	Potential staging along roadside at west end of beach where cars can be parked. Beach does not have a large parking lot, but there is room at the west end where cars park along the road.
Additional Considerations	Stone groin at west end of beach; low relief stone revetment at east end. Rip-rap revetment along road at west end of beach on west side of tidal inlet to marsh. Stone seawall east side of tidal channel. Stone seawall collapsed in places; foundation of bath houses exposed. Extensive wetland in back of parcel, and fringing marsh at west end of beach. No nourishment calculated for this area. Cultural resources present.

Site 433 Southport Beach
Fairfield, CT

Date: June 22, 2010

Direction: East

Description:

Beach profile from groin at west end.

Date: June 22, 2010

Direction: Southwest

Description:

Fringing marsh at west side of parcel.

Site 433 Southport Beach
Fairfield, CT

Date: June 22, 2010

Direction: North

Description:

Seawall on upland side of berm collapsed in some places. Small parking area along road in back.

Date: June 22, 2010

Direction: Northeast

Description:

Paved area for parking along road could serve as staging area.

Parcel	MBL
1	2810190000
2	281032A0000
3	2810330000
4	281034A0000
5	2810340000
6	2810350000
7	2810350000

Site 433 Fairfield, CT

Southport Beach

Site 434 Sasco Hill Beach
Fairfield, CT

Legend

Mapped Wetlands
Tidal Wetland

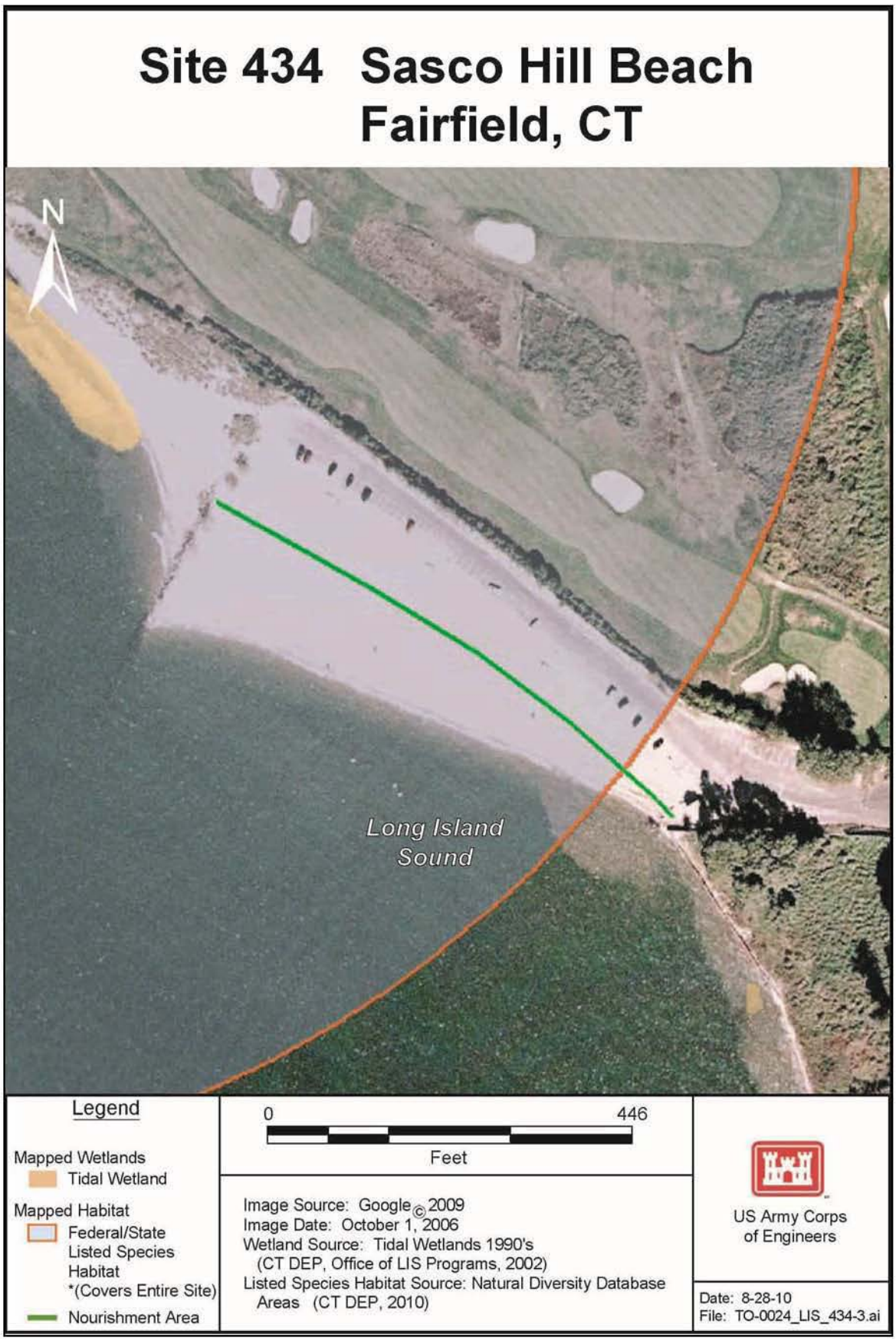
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-28-10
File: TO-0024_LIS_434-2.ai


Site 434 Sasco Hill Beach
Fairfield, CT
N
Long Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
Nourishment Area
0
446
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-28-10
File: TO-0024_LIS_434-3.ai

Site 434 Sasco Hill Beach

Fairfield, CT

Site Address	1401 Sasco Hill Rd., Fairfield, CT
General Description	Federal Shore Protection site and Municipal Beach on Long Island Sound just to the east of Southport Harbor entrance, adjacent to private beach and country club.
Ownership/POC	Town of Fairfield, CT Richard White, Director of Public Works (203) 256-3010
Zoning	AAA Residential
Surrounding Land Use	Golf course/beach club (Country Club of Fairfield) to north; Residential to west and east; Southport Harbor entrance at west side of parcel.
Wetlands	Yes. Mapped wetland west of groin.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers most of the site.
Sediment Type	Poorly sorted medium to coarse-grained sand
Nourishment Length	680 ft
Design Berm Width	68 ft
Capacity	6,300 cy
Site Access	Land – Sasco Hill Rd. Rte. 95 approximately 2 miles from site. Water - LIS
Staging Area	Potential staging area in paved lot along road.
Additional Considerations	Beach at west end has a wide berm; at east end the berm is narrower and grades into a rocky intertidal area. Stone groin on west end where sand is accreting. Southport harbor channel entrance to west. This channel was dredged 4-5 years ago and material was placed on Sasco Hill Beach, transported to site by truck. Sand from beach berm overtops the jetty at Southport Harbor during winter storms, so maintenance dredging is required from time to time. Wetland and rocky intertidal at east end of parcel. Cultural resources present.

Site 434 Sasco Hill Beach
Fairfield, CT

Date: June 22, 2010

Direction: West

Description:

Beach profile looking west.

Date: June 22, 2010

Direction: Northwest

Description:

Wide berm at west end of beach.

Site 434 Sasco Hill Beach
Fairfield, CT

Date: June 22, 2010

Direction: East

Description:

Fringing marsh and rocky intertidal at east end of beach.

Date: June 22, 2010

Direction: Northeast

Description:

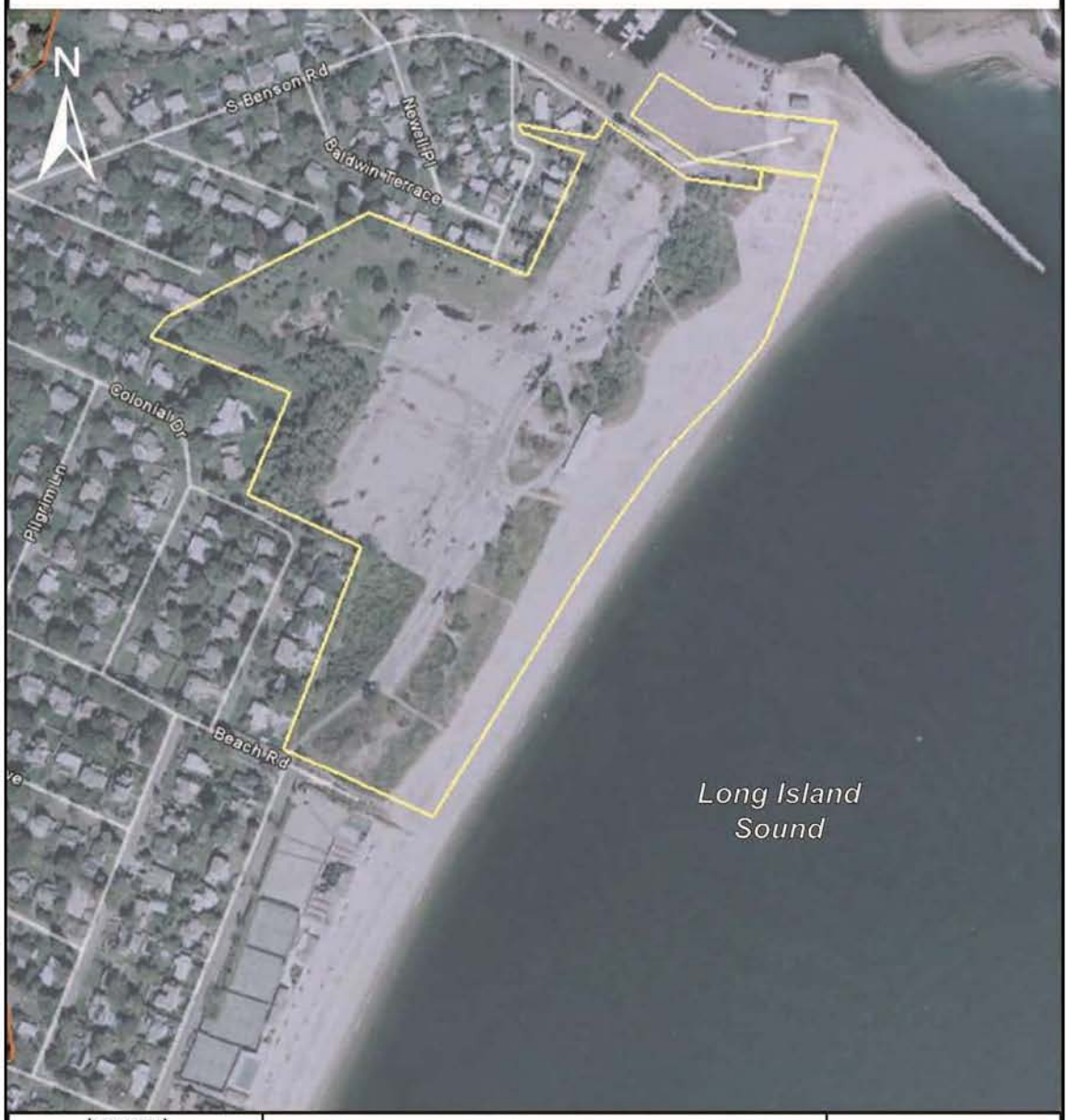
Potential staging area in paved lot at back of beach.

Parcel	MBL
1	2390120000
2	2390170000

Site 434 Fairfield, CT

Sasco Hill Beach

Site 436 Jennings Beach
Fairfield, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_436-2.ai


Site 436 Jennings Beach
Fairfield, CT
N
Newell Pl
Baldwin Terrace
S Benson Rd
Beach Rd
Long Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
Nourishment Area
0
1072
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-27-10
File: TO-0024_LIS_436-3.ai

Site 436 Jennings Beach
Fairfield, CT

Site Address	880 South Benson Rd., Fairfield, CT
General Description	Federal Shore Protection area and Municipal Beach just west of Ash Creek on Long Island Sound.
Ownership/POC	Town of Fairfield, CT Richard White, Director of Public Works (203) 256-3010
Zoning	Beach District
Surrounding Land Use	Commercial (marina) to north; Residential in other surrounding areas.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers the entire site.
Sediment Type	Moderately sorted medium to coarse-grained sand
Nourishment Length	2,030 ft
Design Berm Width	150 ft
Capacity	24,700 cy
Site Access	Land – South Benson Rd. Rte. 95 is approximately 1 mile from the site. Water - LIS
Staging Area	Potential staging area in large paved lot behind beach.
Additional Considerations	Jetty between beach and Ash Creek at east side of parcel. Ash Creek was undergoing emergency dredging during site visit and material was being placed on Jennings beach. Material was removed from Ash Creek using excavators on the bank at east side of channel, allowed to dewater in piles, and transported to the beach by truck. Beach has racks for small boats on northeast end of parcel. Beach house and concessions in center of parcel. Vegetated dune runs along the beach at back of parcel for most of the length of the beach.

Site 436 Jennings Beach
Fairfield, CT

Date: June 22, 2010

Direction: East

Description:

Beach profile looking east.

Date: June 22, 2010

Direction: East

Description:

Vegetated dune behind the beach.

Site 436 Jennings Beach
Fairfield, CT

Date: June 22, 2010

Direction: East

Description:

Ash Creek undergoing emergency dredging during site visit. Dredged material was dewatered at east side of Ash Creek, then trucked to Jennings Beach.

Date: June 22, 2010

Direction: Northwest

Description:

Placement of dredged material during site visit. Sand was scraped off the surface of the beach, dredged material placed on beach, then sandy material re-graded to cover dredged material. Photo shows scraped material ready for re-grading. Parking lot/staging area in background at right.

Parcel	MBL	Parcel	MBL
1	1380200000	17	1390550000
2	1310060000	18	1380460000
3	1380070000	19	1390340000
4	1380060000	20	1390330000
5	1380050000	21	1390310000
6	1380040000	22	1390290000
7	1380030000	23	1390070000
8	1380020000	23	1390060000
9	1380150000	25	1390050000
10	1391020000	26	1390040000
11	1391010000	27	1390030000
12	1391000000	28	1390020000
13	1390990000	29	1390010000
14	1390980000	30	1310100000
15	1390570000	31	1310090000
16	1390400000		

Site 436 Fairfield, CT

Jennings Beach

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Site 443 Guilford Point Beach
Guilford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_443-2.ai

Site 443 Guilford Point Beach
Guilford, CT

Site Address	Circle Beach Rd., Guilford, CT
General Description	This is a Federal Shore Protection project at a municipal recreation area located at the mouth of the East River in Guilford Harbor.
Ownership/POC	Town of Guilford, CT R. Maynard, Parks and Recreation (203) 453-8068
Zoning	R-6 Residential
Surrounding Land Use	Peninsula surrounded by Guilford Harbor and East River. Parcel abuts residential area to the east. Surrounding uses are open space and recreational, with East River State Boat Launch and East River Wildlife Management Area estuary complex to the northeast.
Wetlands	Yes. Mapped wetlands cover most of parcel, aside from dunes and a central upland portion. A large mapped salt marsh occupies most of the parcel east of the dune, and adjacent parcels. Unmapped fringing marshes were noted seaward of the dune.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Moderately sorted coarse-grained sand with gravel and shells
Nourishment Length	Not considered viable.
Design Berm Width	See above
Capacity	n/a
Site Access	Land – None except gravel driveway to Boat Launch Water – LIS, Guilford Harbor; East River navigation channel.
Staging Area	None, but adjacent Boat Launch has approximately large gravel parking area on marsh plain at boat ramp on East River.
Additional Considerations	Small south-facing beach on point of Grass Island south of abandoned house with little to no berm present. Locals indicated history of erosion. 20 ft wide dune runs northwest from end of Circle Beach Rd. to point. Beach is surrounded by fringing marsh and dune system. Dune flanked by fringing marsh and tidal flats to west, and salt marsh to east. Tidal flats are open to shell fishing.

Site 443 Guilford Point Beach
Guilford, CT

Date: July 16, 2010

Direction: Northwest

Description:

Dune, tidal flat and fringing marsh at southern end of parcel.

Date: July 16, 2010

Direction: Northwest

Description:

Beach, dune and fringing marsh at northern end of parcel.

Site 443 Guilford Point Beach
Guilford, CT

Date: July 16, 2010

Direction: South

Description:

Parking lot and salt marsh at East River State Boat Launch.

Date: July 16, 2010

Direction: Northwest

Description:

Rip rap revetment at marina looking across navigation channel at mouth of East River.

Parcel	MBL
1	030002
2	030001
3	025015
4	025009
5	025010
6	025011A

Site 443 Guilford, CT

Guilford Point Beach

Site 365 Hammonasset State Park Madison, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 5000
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_365-2.ai

Site 365 Hammonasset State Park Madison, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 3790
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_365-3.ai

Site 365 Hammonasset State Park

Madison, CT

Site Address	1288 Boston Post Rd., Madison, CT
General Description	Federal Shore Protection project on a state beach with park, camping, nature center and recreation area. Situated on Long Island Sound just west of Clinton Harbor.
Ownership/POC	State of Connecticut Bureau of Outdoor Recreation State Parks and Public Outreach Jon Cimochowaki (860) 424-3200 ext. 3204
Zoning	R-1 Residential
Surrounding Land Use	Open space in immediate vicinity; residential surrounding park with some commercial to north and east.
Wetlands	Yes. Mapped wetlands in northwestern portion of site, and in eastern half of parcel.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Moderately sorted medium-grained sand
Nourishment Length	6,425 ft (per CT DEP design)
Design Berm Width	100 ft (per CT DEP design)
Capacity	562,700 cy (per CT DEP design)
Site Access	Land – Boston Post Rd. (Route 1) and internal park roads. Water – LIS.
Staging Area	Potential staging area in large asphalt parking lot behind West Beach.
Additional Considerations	Beach is bounded by jetty on west end and large groin at Meigs Point on east end. West Beach is eroding and sloped steeply to water from boardwalk. East Beach to Meigs Point has a gently sloping 75 ft berm with a nearshore that slopes moderately to the water. Meigs Point groin is sand tight and higher at landward end, but does not extend to back edge of beach. A vegetated dune runs the length of the park landward of the beach, with a few breaks for beach access.

Site 365 Hammonasset State Park
Madison, CT

Date: July 16, 2010

Direction: Northwest

Description:

Erosion at West Beach.

Date: July 16, 2010

Direction: South

Description:

East Beach profile and Meigs Point groin.

Site 365 Hammonasset State Park
Madison, CT

Date: July 16, 2010

Direction: Northwest

Description:

Dune behind West Beach at end of boardwalk.

Date: July 16, 2010

Direction: South

Description:

Access to West Beach site via asphalt parking lot. Potential staging area in parking lot.

Parcel	MBL	Parcel	MBL
1	46-73-2	22	30-33
2	31-48	23	31-69
3	31-38	24	31-68
4	18-1	25	18-32
5	19-1	26	18-36
6	19-4	27	18-31
7	29-21	28	18-30
8	30-38	29	31-66
9	30-40	30	31-52
10	31-50	31	31-51
11	29-27	32	29-28
12	30-41	33	29-31
13	30-42	34	29-32
14	31-45	35	18-33
15	30-39	36	18-35
16	29-29	37	18-17
17	31-46		
18	31-47		
19	18-29		
20	18-40		
21	18-10		

Site 365 Madison, CT

Hammonasset State Park

Site 457 East Wharf Beach
Madison, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_457-2.ai

Site 457 East Wharf Beach
Madison, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 62 124 186
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_457-3.ai

Site 457 East Wharf Beach

Madison, CT

Site Address	Middle Beach Rd., Madison, CT
General Description	Federal Shore Protection Project at a Municipal Beach located south of downtown Madison.
Ownership/POC	Town of Madison, CT S. Erskine, Beach and Recreation (203) 245-5623
Zoning	R-2 Residential
Surrounding Land Use	Residential
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse to medium--grained sand with gravel
Nourishment Length	Two separate areas for beach nourishment: West of pier - 230 ft North of pier - 170 ft
Design Berm Width	Two separate areas for beach nourishment: West of pier - 50 ft North of pier - 80 ft
Capacity	4,300 cy
Site Access	Land – Middle Beach Rd. Water – Long Island Sound
Staging Area	Potential staging area in small asphalt parking lot landward of beach with central landscaped area. Storm drain empties on east side of beach.
Additional Considerations	Solid fill pier and low wall separates south-facing beach from east-facing beach. South-facing beach has 30 ft berm of gentle slope, with moderately sloping foreshore and rock outcrop. East beach contains finer sands and has a steep slope from pavilion to water. Small dune between parking lot and beach. Abutting residences on either side of beach have seawalls. Homes to east have no beach; homes to west have timber groins and steeply sloping beaches.

Site 457 East Wharf Beach
Madison, CT

Date: July 16, 2010

Direction: West

Description:

Beach, rock outcrop and timber groins west of pier.

Date: July 16, 2010

Direction: Northeast

Description:

Beach, parking lot drain and seawalls northeast of pier.

Site 457 East Wharf Beach
Madison, CT

Date: July 16, 2010

Direction: South

Description:

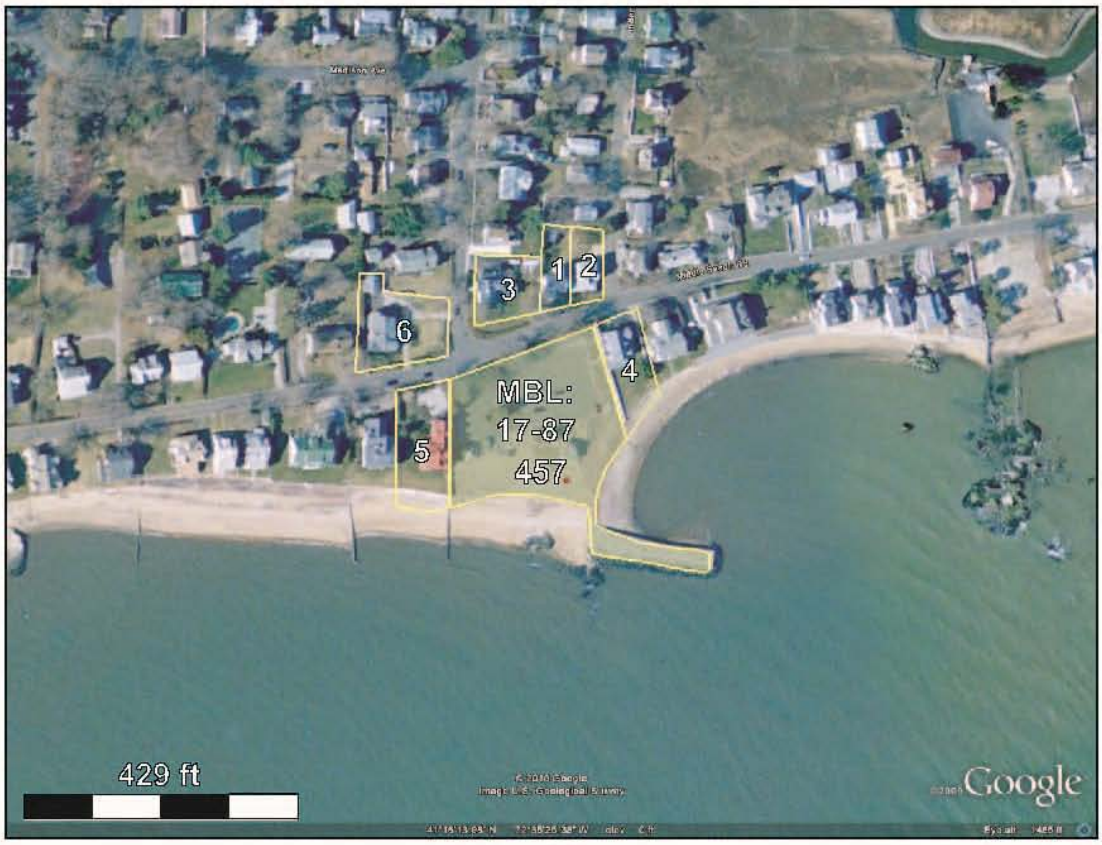
Wall and pier.

Date: July 16, 2010

Direction: Northwest

Description:

Dune, pavilion and bath house between beach and parking lot.



Parcel	MBL
1	17-39
2	17-40
3	17-38
4	17-86
5	17-88
6	17-12

Site 457 Madison, CT
East Wharf Beach

Site 364 Silver Sands State Park Milford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_364-2.ai

Site 364 Silver Sands State Park Milford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 1495
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_364-3.ai

Site 364 Silver Sands State Park

Milford, CT

Site Address	East Broadway, Milford, CT
General Description	Federal Shore Protection area and State Park in Milford, CT. Extensive beach and wetland on parcel.
Ownership/POC	Silver Sands State Park Joe Mailer, Park Supervisor (203) 735-4311
Zoning	OS Open Space Non-residential.
Surrounding Land Use	Residential to the west and east, open space to the south.
Wetlands	Yes. Extensive mapped wetland on parcel inland of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers the entire site.
Sediment Type	Poorly sorted fine-grained sand with shell material
Nourishment Length	Two separate areas for beach nourishment: Western side of parcel - 900 ft Eastern side of parcel - 730 ft No nourishment in central area where tidal inlet runs through beach area to wetland on parcel behind.
Design Berm Width	Two separate areas for beach nourishment: Western side - 175 ft Eastern side - 50 ft
Capacity	21,000 cy
Site Access	Land –Short Beach Rd. to Dorne Dr. in Park. Water - LIS
Staging Area	Potential staging area in small unpaved lot at eastern end of parcel behind beach.
Additional Considerations	A large sand spit is forming between beach and Charles Island at east end of parcel. At low tide it is possible to walk all the way out to Charles Island. From main parking lot, access to beach is via elevated boardwalk that runs across the wetland on the eastern end. Truck and equipment access via paved road through park at eastern end of parcel. There is an extensive marsh in back of the beach. The marsh drains through a culvert at central area of beach. This area would not be appropriate for beach nourishment. Shorebird enclosures noted during site visit.

Site 364 Silver Sands State Park
Milford, CT

Date: June 23, 2010

Direction: Northeast

Description:

Beach profile on east end of parcel.

Date: June 23, 2010

Direction: Southeast

Description:

View of Charles Island. Sand bar is dry all the way out to Charles Island at low tide.

Site 364 Silver Sands State Park
Milford, CT

Date: June 23, 2010

Direction: East

Description:

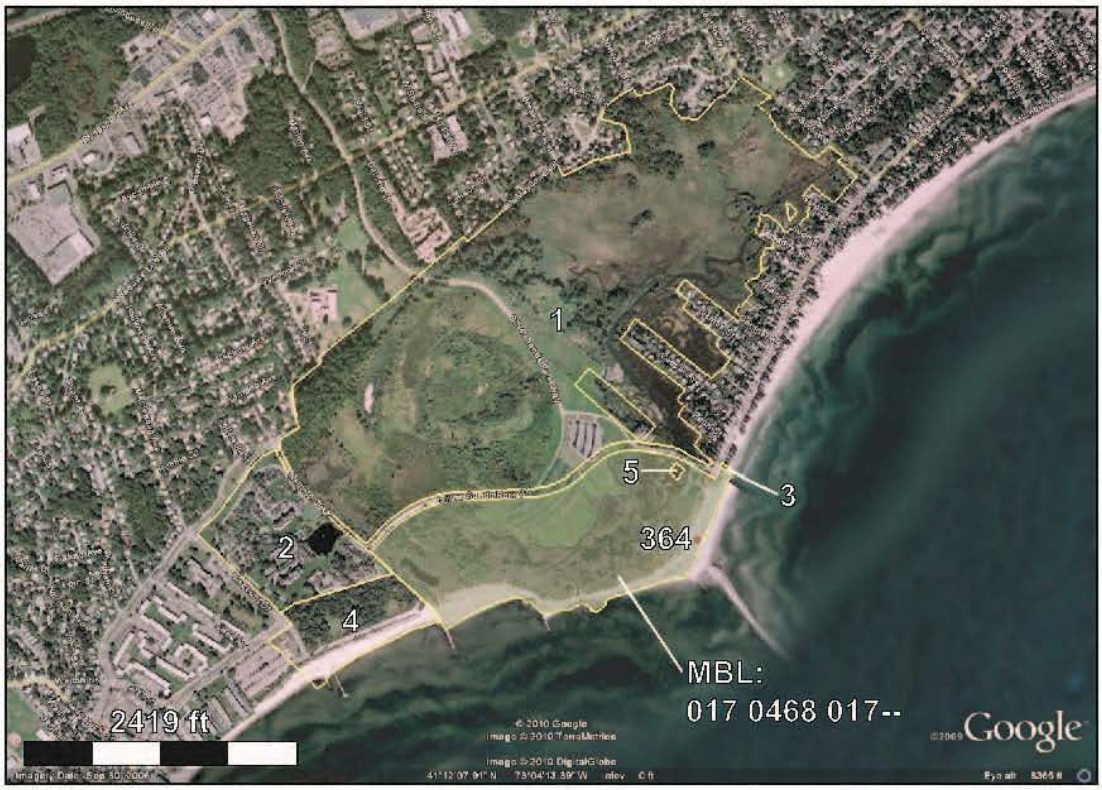
Beach profile at western end of parcel.

Date: June 23, 2010

Direction: West

Description:

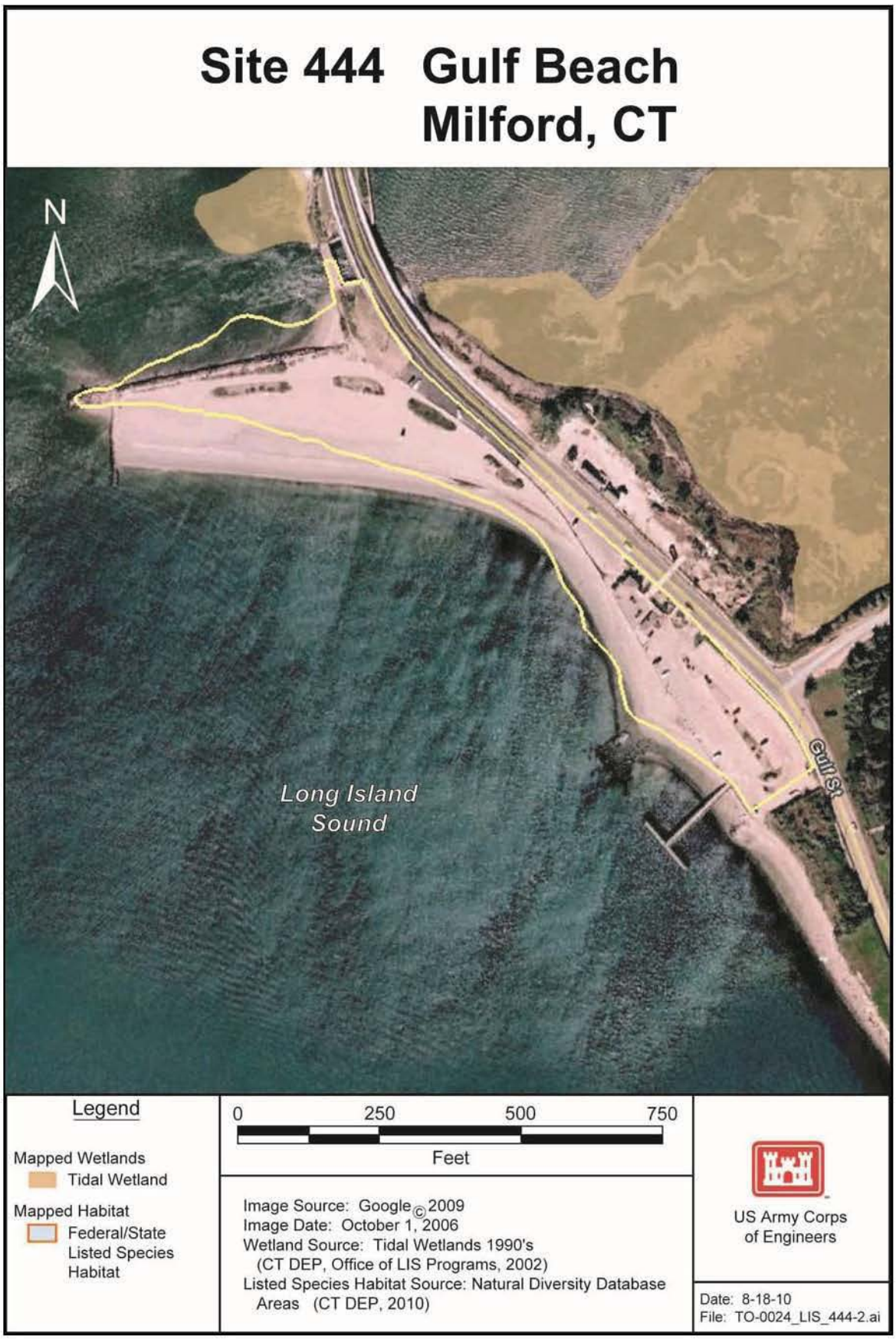
Beach and stone groin in central area of parcel. Shorebird enclosures in background.

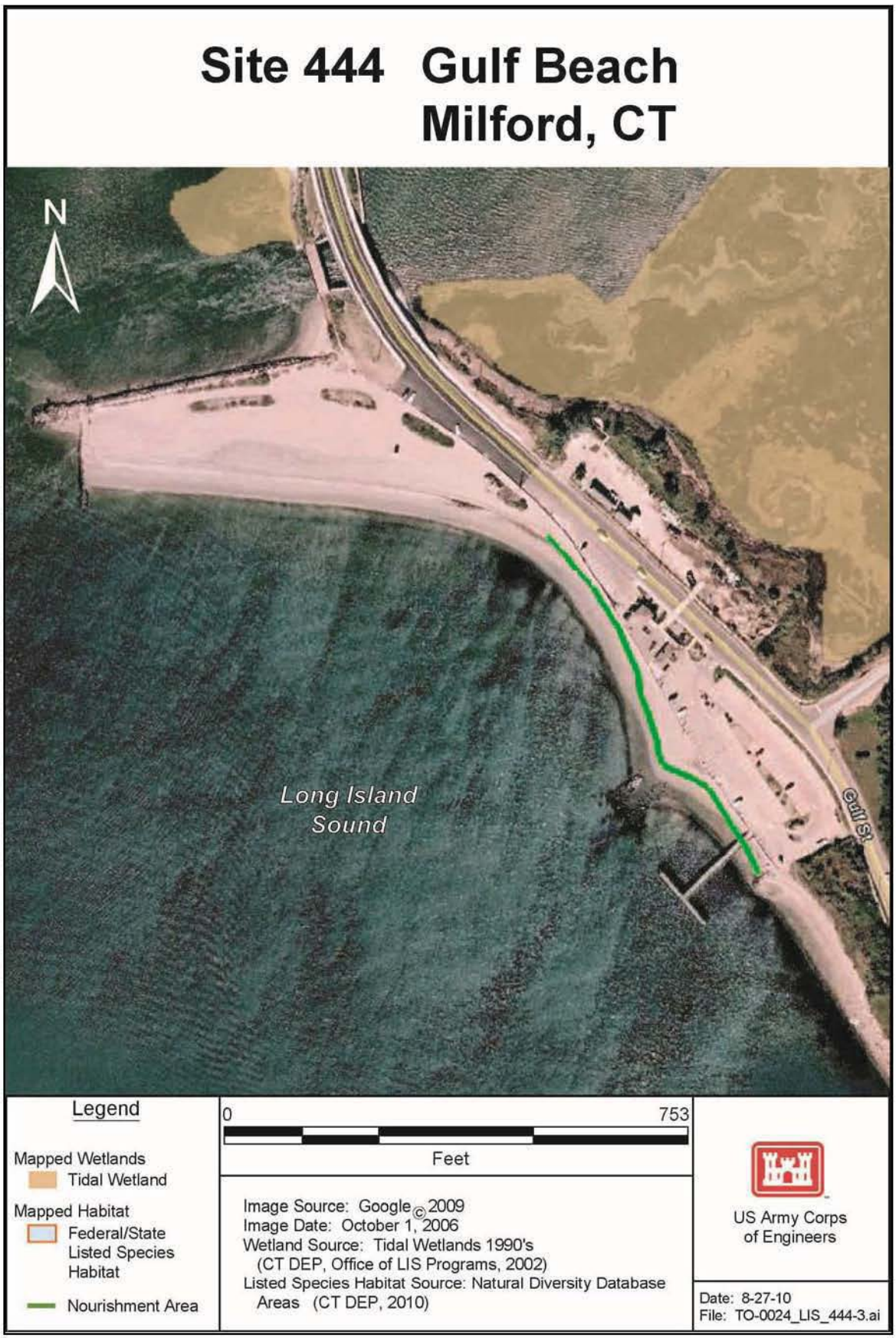


Parcel	MBL
1	017 0468 017--
2	017 0157 004--
3	022 0474 00004
4	017 0150 00003
5	022 0461 0001C

Site 364 Milford, CT

Silver Sands State Park


Site 444 Gulf Beach
Milford, CT
N
Long Island Sound
Gulf St
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
0
250
500
750
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_444-2.ai


Site 444 Gulf Beach
Milford, CT
N
Long Island Sound
Gulf St
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Nourishment Area
0
753
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-27-10
File: TO-0024_LIS_444-3.ai

Site 444 Gulf Beach

Milford, CT

Site Address	561 Gulf St., Milford, CT
General Description	Federal Shore Protection site and Municipal Beach just east of Milford Harbor. Gulf Pond lies behind beach.
Ownership/POC	City of Milford, CT Mike Jacobsen, Recreation Department (203) 783-3280
Zoning	OS Open Space, Non-residential
Surrounding Land Use	Commercial (marina and related businesses) to the northwest; Residential in other surrounding areas.
Wetlands	No. Mapped wetlands north of parcel at the southern extent of Gulf Pond.
State and Federally Listed Species Habitat	No.
Sediment Type	Poorly sorted medium-grained sand
Nourishment Length	670 ft
Design Berm Width	67 ft
Capacity	5,300 cy
Site Access	Land –Gulf St. Water - LIS
Staging Area	Potential staging area in large paved lot at southeast end of parcel; also potential staging in parking area along road on north side behind beach.
Additional Considerations	Landward side of beach at southeast end has a concrete seawall. Fishing pier at southeast end of parcel. Low-lying dunes between beach and parking area; dunes are segmented and vegetated. Gulf Pond behind beach has a large salt marsh/wetland area. Cultural resources present.

Site 444 Gulf Beach
Milford, CT

Date: June 23, 2010

Direction: West

Description:

Beach profile looking west.

Date: June 23, 2010

Direction: Southeast

Description:

View of beach with dune behind berm.

Site 444 Gulf Beach
Milford, CT

Date: June 23, 2010

Direction: North

Description:

Gulf Pond behind beach and road.

Date: June 23, 2010

Direction: East

Description:

Potential staging in parking area behind beach.

Parcel	MBL
1	036 0588 00001
2	036 0519 OPENS
3	037 0588 0002A
4	028 0520 00022
5	028 0520 00023
6	036 0584 00006

Site 444 Milford, CT
Gulf Beach

Site 451 Woodmont Shore Beach
Milford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_451-2.ai

Site 451 Woodmont Shore Beach Milford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 251
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_451-3.ai

Site 451 Woodmont Shore Beach

Milford, CT

Site Address	Beach Ave., Milford, CT
General Description	Federal Shore Protection site and Municipal Beach in Milford, CT about half way between Milford Harbor and New Haven Harbor.
Ownership/POC	City of Milford, CT Mike Jacobsen, Recreation Department (203) 783-3280
Zoning	R 12.5 Residential
Surrounding Land Use	Residential; park/open space landward of beach.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Sediment Type	Poorly sorted medium to coarse-grained sand
Nourishment Length	250 ft
Design Berm Width	25 ft
Capacity	500 cy
Site Access	Land – Beach Ave. Paved road in residential neighborhood. Water - LIS
Staging Area	No lot adjacent to beach. There is a small parking area approximately 100 yds from beach on street.
Additional Considerations	Beach has a low-lying bank between the sidewalk and beach. Bank has loosely placed rip-rap and sparse vegetation. Groins on north and south ends of parcel. Berm is near height of stone groin on north side, lower on adjacent parcel farther north, indicating sediment transport from south to north. Cement groin on southwest side has openings at the bottom that allow passage of water and sand.

Site 451 Woodmont Shore Beach
Milford, CT

Date: June 23, 2010

Direction: South

Description:

Beach profile looking south.

Date: June 23, 2010

Direction: Southeast

Description:

Stone groin at north end of parcel showing sediment offset.

Site 451 Woodmont Shore Beach
Milford, CT

Date: June 23, 2010

Direction: South

Description:

Cement groin at south end of parcel.

Date: June 23, 2010

Direction: West

Description:

No parking or staging area along road next to beach. Potential staging area in narrow parking area adjacent to park across the street, but no space directly adjacent to beach.

Parcel	MBL
1	071 0783 00001
2	071 0777 00001
3	071 0774 00003
4	071 0775 00003

Site 451 Milford, CT

Woodmont Shore Beach

Site 337 Lighthouse Point Park Beach
New Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_337-2.ai

Site 337 Lighthouse Point Park Beach New Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
Nourishment Area

0 611
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_337-3.ai

Site 337 Lighthouse Point Park Beach

New Haven, CT

Site Address	21 Lighthouse Rd., New Haven, CT
General Description	Municipal Beach and park on the east side of New Haven Harbor south of Morris Cove. Primary beach area runs east-west; secondary beach area runs north-south. Parcel is adjacent to Morris Creek and has a large park area upland of the beach.
Ownership/POC	City of New Haven, CT Robert Levine , Director Parks Department (203) 946-8027
Zoning	Park
Surrounding Land Use	Residential with small commercial marina on northern border. Parcel itself is open space, and bordered on east by Morris Creek and associated salt marsh.
Wetlands	No. Mapped wetlands surround adjacent Morris Creek. Unmapped *Phragmites* wetlands were observed growing on eastern border of park along Morris Creek.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium grained sand with gravel
Nourishment Length	East-west beach: 1,030 ft North-south beach: 380 ft
Design Berm Width	East-west beach: 50 ft North-south beach: 38 ft
Capacity	3,400 cy
Site Access	Land – Lighthouse Rd. to Park Ave. Water – LIS to south, New Haven Harbor channel to west
Staging Area	Potential staging area in asphalt parking lot with storm drains at southeast corner of parcel, about 200 yards from the south facing beach. Paved access road continues past parking lot to beach. Extensive unpaved grassy upland areas also used for parking.
Additional Considerations	South facing beach has stone groin on west end and stone jetty on east end; West facing beach shares groin on southern end and is bounded by rocky outcrop to north. South facing beach has 50 ft berm sloping gradually to water. Smaller west facing beach south of lighthouse has 40 ft berm and gradual slope to water. Both beaches are bordered on the landward side by a paved walking path, and the beach is at the same elevation as the path. Small vegetated dunes are found at the foot of each groin. The east breakwater for New Haven Harbor is 2,800 ft south of the eastern jetty. There is a 180 ft fishing pier along the rocky western bluff approximately halfway between the point and the northern border. Cultural resources present.

Site 337 Lighthouse Point Park Beach

New Haven, CT

Date: June 25, 2010

Direction: West

Description:

South facing beach profile, groin and walkway looking west.

Date: June 25, 2010

Direction: North

Description:

West facing beach profile and lighthouse looking north.

Site 337 Lighthouse Point Park Beach
New Haven, CT

Date: June 25, 2010

Direction: Southwest

Description:

Jetty at eastern end of beach, with breakwaters in background.

Date: June 25, 2010

Direction: Northeast

Description:

Potential staging for trucks and grading equipment in lot at back of beach.

Parcel	MBL	Parcel	MBL
1	035 0865 00100	13	036 0847 01200
2	035 0846 00100	14	036 0847 01300
3	035 0846 00200	15	036 0847 01400
4	035 0846 00300	16	036 0847 01900
5	035 0854 00100	17	036 0847 02000
6	035 0846 00400	18	036 0847 02100
7	035 0846 00500	19	036 0847 02200
8	036 0847 00100	20	036 0847 02300
9	035 0854 02000	21	037 0847 03000
10	035 0846 00600	22	037 0848 00900
11	036 0847 01000	23	037 0848 00800
12	036 0847 01100	24	035 0854 02100

Site 337 New Haven, CT

Lighthouse Point Park Beach

Site 320 Calf Pasture Beach
Norwalk, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_320-2.ai

Site 320 Calf Pasture Beach
Norwalk, CT

Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 324 648 972
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_320-3.ai

Site 320 Calf Pasture Beach

Norwalk, CT

Site Address	Calf Pasture Beach Rd., Norwalk, CT
General Description	Federal Shore Protection area in Norwalk, with Norwalk Harbor to west, Cockenoe Harbor to the east.
Ownership/POC	City of Norwalk, CT Richard Macdonald, Recreation & Parks Beach Supervisor (203) 838-0596
Zoning	AAA Residential
Surrounding Land Use	Boat yard and marina to west and north of site; residential to north and northeast.
Wetlands	Yes. Mapped wetlands on the beach at the southern end of site.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers most of the site.
Sediment Type	Well sorted medium grained sand on south end; Poorly sorted coarse sand to gravel on north side
Nourishment Length	2,220 ft
Design Berm Width	100 ft
Capacity	31,900 cy
Site Access	Road – Calf Pasture Rd. Water – Cockenoe Harbor
Staging Area	Potential staging area in large paved lot near center of parcel.
Additional Considerations	South side of parcel has 3 stone groins connected at the landward end by a stone seawall. The beach in this area has a narrow berm and fringing marsh. There is a wood pier at the end of the groin on the southeastern tip of the parcel. There is a sand launch ramp at the south end of the parcel with a wooden crib structure on one side. Nourishment is not recommended in this area due to proximity to wetland and rocky intertidal habitat. The east-facing beach (which runs from north to south) has a wide berm that tapers on the north side. This area has capacity for beach nourishment. Cultural resources present.

Site 320 Calf Pasture Beach
Norwalk, CT

Date: June 22, 2010

Direction: North

Description:

Beach profile looking north. Repairs on walk/bike path were underway during site visit.

Date: June 22, 2010

Direction: Southeast

Description:

Stone groin and pier at southeastern tip of parcel; fringing marsh at shoreline.

Site 320 Calf Pasture Beach
Norwalk, CT

Date: June 22, 2010

Direction: North

Description:

Wide berm at central/northern beach area.

Date: June 22, 2010

Direction: South

Description:

Potential staging area in paved lot behind beach; also unpaved (sand) boat ramp to water.

Parcel	MBL
1	3-75-17-0
2	3-75-2-0
3	3-75-1-0
4	3-75-3-0
5	3-77-1-0

Site 320 Norwalk, CT

Calf Pasture Beach

Site 441 Cove Island Beach Stamford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-10-10
File: TO-0024_LIS_441-2.ai

Site 441 Cove Island Beach Stamford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 271 542 813
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-28-10
File: TO-0024_LIS_441-3.ai

Site 441 Cove Island Beach

Stamford, CT

Site Address	Cove Rd., Stamford, CT
General Description	Federal Shore Protection area in Stamford with marina on east side, large spillway from Holly Pond on west. Cove Island recreation area adjacent to beach.
Ownership/POC	City of Stamford, CT S. Beauregard, Recreation and Leisure Services (203) 977-5214
Zoning	P Park
Surrounding Land Use	Residential to east and northwest; park and marina to west.
Wetlands	Yes. Mapped wetlands below spillway and around rocky headlands.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse sand
Nourishment Length	940 ft
Design Berm Width	94 ft
Capacity	20,100 cy
Site Access	Land – Access to site restricted by a narrow bridge. Access for pedestrians and small maintenance vehicles is possible, but trucks and equipment would be restricted. Water – Cove Harbor
Staging Area	No existing staging areas on site. There is a large paved lot to west of beach, but access would be restricted by the small bridge between the beach and lot.
Additional Considerations	Parcel has two beach areas, separated by a rocky point. The larger beach at the east side has a stone groin at its east end. Here the beach is higher and wider at west side of groin; shoreline on east side of groin is set way back and has an exposed tidal flat with fringing marsh. Farther east the beach drops off to the spillway at Holly Pond. The beach at the west end has a rocky intertidal and fringing marsh, but then grades up to a sandy area with planted trees. Nourishment was not calculated for this area because of potential damage to the fringing marsh and rocky intertidal habitat. Access for trucks and heavy equipment restricted, as noted above. Cultural resources present.

Site 441 Cove Island Beach
Stamford, CT

Date: June 21, 2010

Direction: East

Description:

Beach profile looking east.

Date: June 21, 2010

Direction: North

Description:

Dune at east end of parcel, and spillway to Holly Pond in background.

Site 441 Cove Island Beach
Stamford, CT

Date: June 21, 2010

Direction: Southeast

Description:

West side beach with fringing marsh and rocky intertidal. Placement of material is not considered viable on the beach here due to proximity to wetland.

Date: June 21, 2010

Direction: East

Description:

Access to beach area for equipment is restricted by narrow bridge from parking lot to main beach parcel.

Site 441 Stamford, CT

Cove Island Beach

Site 442 Cummings Park Beach
Stamford, CT

Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-19-10
File: TO-0024_LIS_442-2.ai

Site 442 Cummings Park Beach
Stamford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 774
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-19-10
File: TO-0024_LIS_442-3.ai

Site 442 Cummings Park Beach

Stamford, CT

Site Address	Shippan Ave., Stamford, CT
General Description	Municipal Beach and a Federal Shore Protection site, located just east of Shippan Point in Westcott Cove.
Ownership/POC	City of Stamford, CT S. Beauregard, Recreation and Leisure Services (203) 977-5214
Zoning	Park
Surrounding Land Use	Marina and yacht club in basin behind the beach; recreational fields landward of beach; residential parcels adjacent to site.
Wetlands	Yes. Mapped wetlands bordering marina basin, but not in the beach area.
State and Federally Listed Species Habitat	No.
Sediment Type	Poorly sorted coarse-grained sand
Nourishment Length	Two separate areas for beach nourishment: Western side of parcel - 640 ft Eastern side of parcel - 530 ft
Design Berm Width	Two separate areas for beach nourishment: Western side - 250 ft Eastern side - 140 ft
Capacity	38,700 cy
Site Access	Land – McMullen Ave. Water – LIS, Westcott Cove
Staging Area	Potential staging area in paved parking lot landward of beach; potential access for equipment across paved walking path; large trees present in certain places between walking path and beach.
Additional Considerations	Stone jetty and wooden pile structure (pier with no decking) at west end of beach; stone groins near center of beach and at east end. Updrift offset noted on east sides of structures suggesting transport from east to west. Marina basin lies just west of the parcel (west end jetty is located at entrance to marina basin). Cultural resources present.

Site 442 Cummings Park Beach
Stamford, CT

Date: June 26, 2010

Direction: East

Description:

Beach profile from west side.

Date: June 26, 2010

Direction: South

Description:

Groin and wood pier structure at west end of beach.

Site 442 Cummings Park Beach
Stamford, CT

Date: June 26, 2010

Direction: South

Description:

Groin at center of beach, showing sand offset on east side.

Date: June 26, 2010

Direction: Southeast

Description:

Potential staging for trucks and grading equipment in lot at back of beach.

Parcel	MBL
1	W 002 8760
2	W 003 8760
3	W 004 8760
4	W 005 8760
5	W 006 8760
6	W 007 8760
7	E 002Z 7688
8	W 008 8760
9	W 009 8760
10	W 010 8760
11	W 011Z 8760
12	E 017 1312
13	E 018 1312
14	E 026 7810
15	W 003 7688
16	W 004 7688
17	W 007 7688
18	W 008 7688
19	W 010 7688
20	W 012 7688
21	S 010 6544
22	S 009 6544
23	S 008 6544
24	S 007 6544
25	S 006 6544
26	S 005 6544
27	S 004A 6544
28	S 002 6544
29	S 003 5608
30	W 027 7810
31	E 024 7810
32	W 026 7810
33	N 013 5608
34	N 012 5608
35	N 011 5608
36	W 028 7810
37	N 010 5608
38	N 009 5608
39	N 003 5608
40	N 008 5608
41	N 004 5608
42	W 029 7810
43	N 005 5608
44	N 006 5608
45	N 007 5608
46	W 030 7810
47	W 031 7810
48	W 032 7810
49	E 025 7810
50	N 001 5608
51	N 002 5608

Site 442 Stamford, CT

Cummings Park Beach


Site 450 Short Beach
Stratford, CT
N
Stratford Rd
Short Beach Rd
Dorne Dr
Hartland St
Airway Dr
Chestnut St
Maureen St
Ash St
Curtis Ave
Baxter St
Lighthouse Ave
Spruce St
Laurel St
Long Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0
2000
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_450-2.ai


Site 450 Short Beach
Stratford, CT
N
Dorne Dr
Long Island
Sound
Short Beach Rd
Beaver St
Ash St
Riverdale Dr
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
*(Covers Entire Site)
Nourishment Area
0
1729
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-27-10
File: TO-0024_LIS_450-3.ai

Site 450 Short Beach

Stratford, CT

Site Address	Short Beach Dr., Stratford, CT
General Description	Federal Shore Protection site and Municipal Beach in Long Island Sound near the mouth of the Housatonic River. Beach runs in a north-south direction.
Ownership/POC	Town of Stratford, CT Patricia Patusky, Recreation Department (203) 385-4052
Zoning	Primarily RS-3 Single Family Residential Also MA Industrial and MC Coastal Industrial District
Surrounding Land Use	Residential to south; airport to northwest.
Wetlands	Yes. Mapped wetland at north end of parcel near mouth of the Housatonic River.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers the entire site.
Sediment Type	Poorly sorted coarse-grained sand with shells
Nourishment Length	2,310 ft
Design Berm Width	100 ft
Capacity	54,400 cy
Site Access	Land –Short Beach Rd. to Dorne Dr. Water - LIS
Staging Area	Potential staging area in large paved lot behind beach.
Additional Considerations	South end of beach has detached stone groin. Beach berm is flat, very wide (about 80-100 ft wide) with steeply sloping foreshore. At north end of beach there is a large vegetated dune and wooden sitting area and access ramp. Beach berm is narrower in this area.

Site 450 Short Beach
Stratford, CT

Date: June 23, 2010

Direction: North

Description:

Beach profile looking north.

Date: June 23, 2010

Direction: South

Description:

View of beach looking south with dune at back of beach.

Site 450 Short Beach
Stratford, CT

Date: June 23, 2010

Direction: North

Description:

Wide berm and access ramp to beach at north side of parcel.

Date: June 23, 2010

Direction: North

Description:

Wooden sitting area and vegetated dune.

Parcel	MBL	Parcel	MBL
1	5004030001	17	6003030005
2	5004020001	18	6003040015
3	6004010003	19	6003040014
4	6004010002	20	6003040007
5	6004010001	21	6003040006
6	6003010009	22	6003060007
7	6003010008	23	6003060006
8	6003010007	23	6003060005
9	6003010006	25	6003060004
10	6003010005	26	6003060003
11	6003010004	27	6003060002
12	5003020004	28	6003060001
13	6003010003	29	6003060016
14	6003020005	30	7002010001
15	6003020004	31	6003060017
16	6003030006	32	6002060001

Site 450 Stratford, CT

Short Beach

Site 447 Prospect Beach
West Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

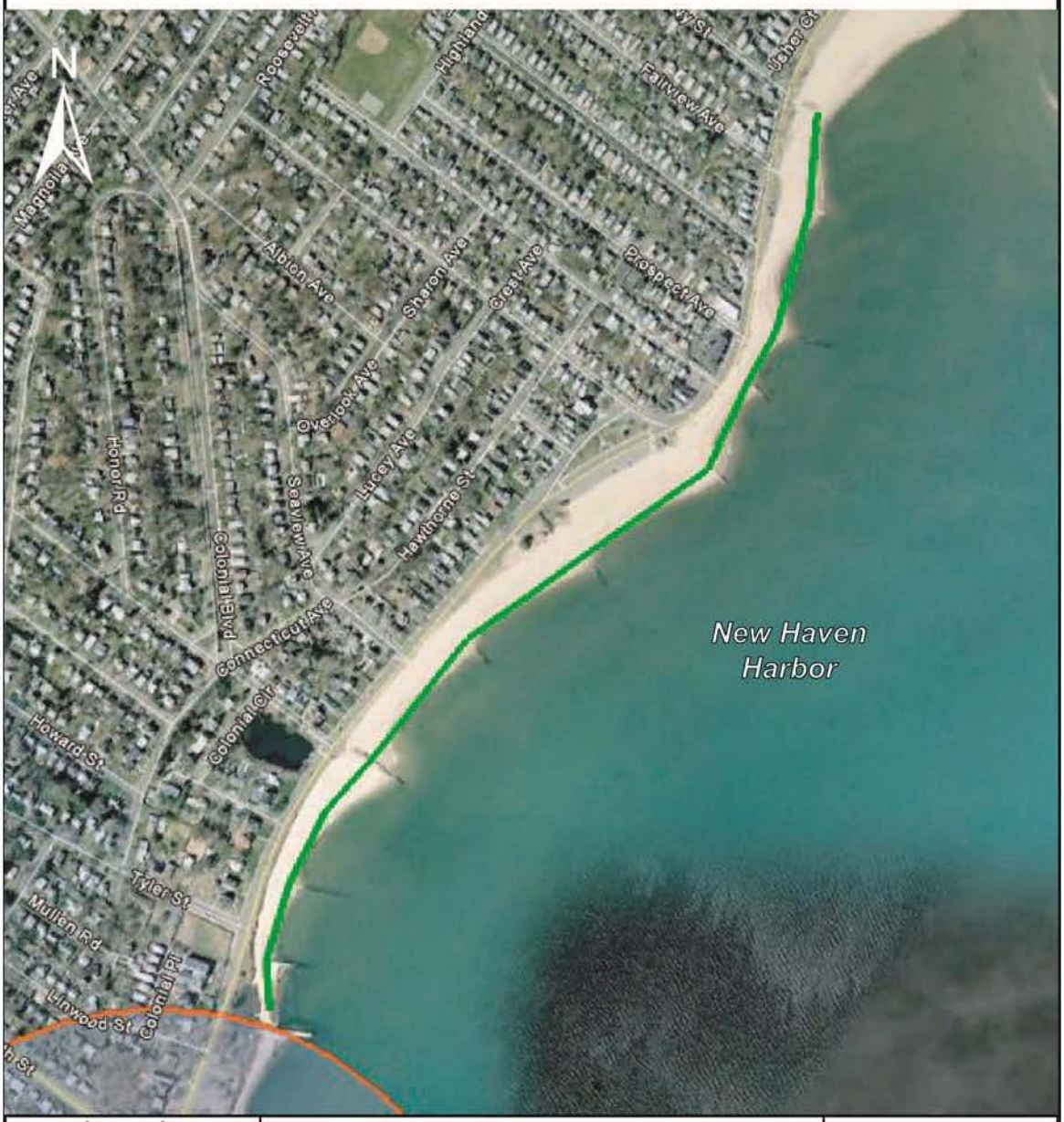
0 2500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_447-2.ai

Site 447 Prospect Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 680 1360 2040
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_447-3.ai

Site 447 Prospect Beach

West Haven, CT

Site Address	711 Ocean Dr., West Haven, CT
General Description	Federal Shore Protection site and Municipal Beach on Long Island Sound just west of entrance to New Haven Harbor.
Ownership/POC	City of West Haven, CT Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Residential.
Wetlands	No.
State and Federally Listed Species Habitat	No. Mapped habitat just across the parcel boundary at south end.
Sediment Type	Well sorted medium grained sand
Nourishment Length	4,400 ft
Design Berm Width	100 ft
Capacity	63,100 cy
Site Access	Land – Ocean Ave.; paved 2-lane road. Water - LIS
Staging Area	Potential staging area in paved area along road in back of beach in center of parcel. Limited parking along the road adjacent to beach.
Additional Considerations	There are 12 stone groins on this parcel. Most are very low and allow sand transport along the beach. Berm is flat and wide. Some erosion evident at southwest end of parcel. North side of beach ends in a rip-rap groin and concrete tide gate that runs to a wetland north of the parcel. Nourishment not calculated in vicinity of tide gate area to north of parcel to avoid shoaling in this area and interference with tidal flow to marsh.

Site 447 Prospect Beach
West Haven, CT

Date: June 23, 2010

Direction: South

Description:

Beach profile looking south.

Date: June 23, 2010

Direction: North

Description:

Tide gate at northern end of parcel.

Site 447 Prospect Beach
West Haven, CT

Date: June 23, 2010

Direction: Northwest

Description:

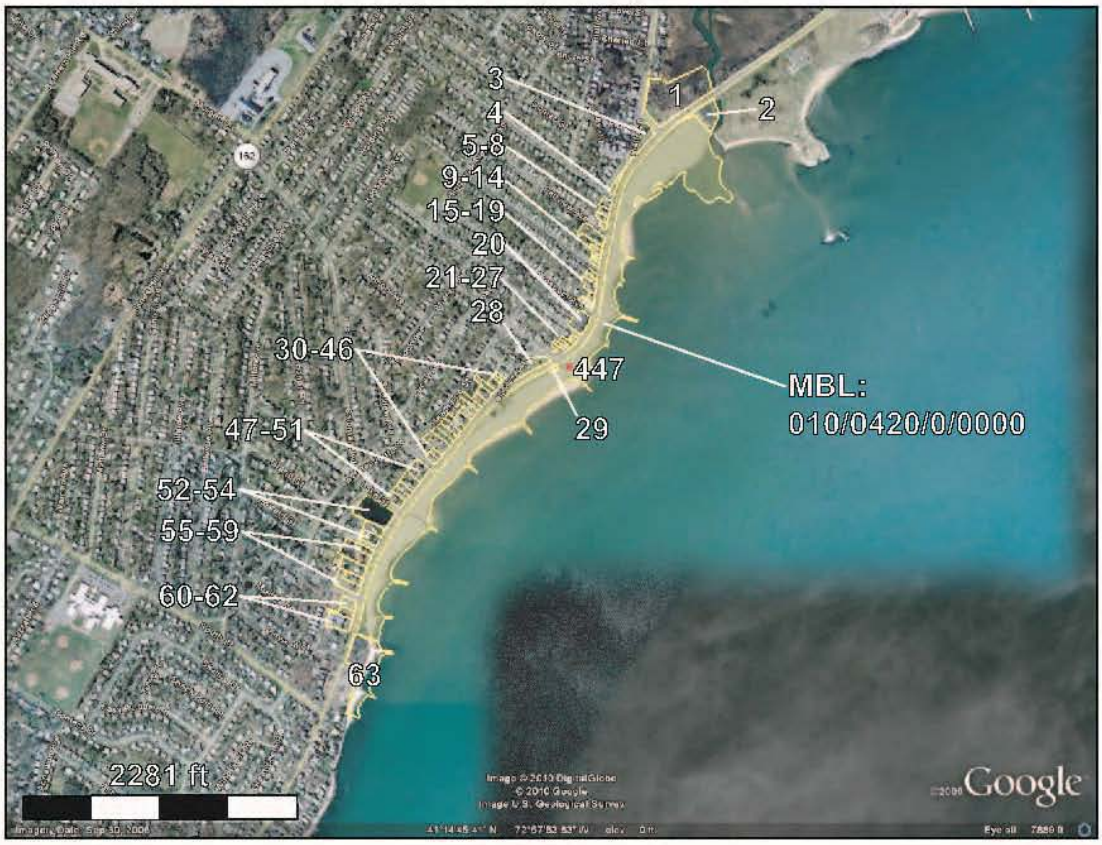
Beach is graded each morning to remove trash and organic debris.

Date: June 23, 2010

Direction: North

Description:

Possible staging in parking area behind beach.



Parcel	MBL	Parcel	MBL	Parcel	MBL
1	015/0137/0/0000	22	010/0295/0/0000	43	010/0424/0/0000
2	015/0143/0/0000	23	010/0296/0/0000	44	010/0423/0/0000
3	015/0144/0/0000	24	010/0294/0/0000	45	010/0422/0/0000
4	015/0145/0/0000	25	010/0293/0/0000	46	010/0421/0/0000
5	015/0012/0/0000	26	010/0292/0/0000	47	007/0176/0/0000
6	015/0009/0/0000	27	010/0291/0/0000	48	007/0175/0/0000
7	015/0008/0/0000	28	010/0599/0/0000	49	007/0174/0/0000
8	015/0007/0/0000	29	010/0420/A/0000	50	007/0173/0/0000
9	011/0023/0/0000	30	010/0437/0/0000	51	007/0172/0/0000
10	011/0022/0/0000	31	010/0436/0/0000	52	007/0164/0/0000
11	011/0021/0/0000	32	010/0434/0/0000	53	007/0163/0/0000
12	011/0020/0/0000	33	010/0435/0/0000	54	007/0162/0/0000
13	011/0019/0/0000	34	010/0433/0/0000	55	007/0151/0/0000
14	011/0018/0/0000	35	010/0431/0/0000	56	007/0152/0/0000
15	011/0012/0/0000	36	010/0432/0/0000	57	007/0150/0/0000
16	011/0011/0/0000	37	010/0430/0/0000	58	007/0148/0/0000
17	011/0009/0/0000	38	010/0429/0/0000	59	007/0149/0/0000
18	011/0005/0/0000	39	010/0428/0/0000	60	007/0067/0/0002
19	011/0004/0/0000	40	010/0427/0/0000	61	007/0067/0/0001
20	011/0001/0/0000	41	010/0426/0/0000	62	007/0066/0/0000
21	010/0297/0/0000	42	010/0425/0/0000	63	007/0177/0/0000

Site 447 West Haven, CT
Prospect Beach

Site 438 Burial Hill Beach
Westport, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

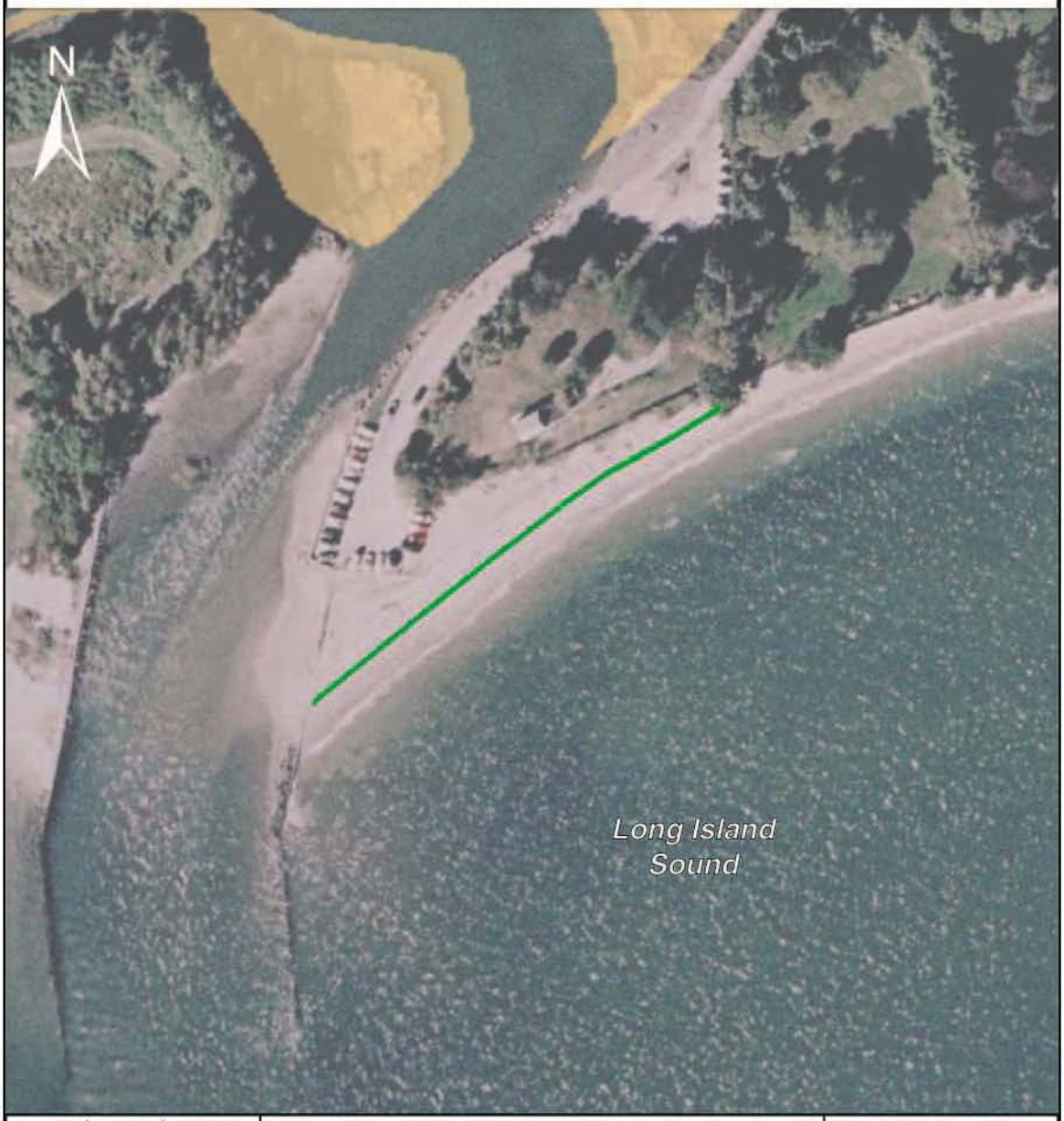
0 250 500 750
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_438-2.ai

Site 438 Burial Hill Beach Westport, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 127 254 381
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_438-3.ai

Site 438 Burial Hill Beach

Westport, CT

Site Address	Beachside Ave., Westport, CT
General Description	This is Federal Shore Protection area on Long Island Sound, just east of Sherwood Island State Park.
Ownership/POC	City of Westport, CT Janis Collins, Parks and Recreation (203) 222-9712
Zoning	Park
Surrounding Land Use	Residential to north and east; wetland and estuary on north side of parcel; open space to west.
Wetlands	Yes. Mapped wetland throughout northwest side of parcel. But not on beach itself.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand
Nourishment Length	420 ft
Design Berm Width	75 ft
Capacity	2,800 cy
Site Access	Land – Burying Hill Rd.; paved road. Water – LIS
Staging Area	Potential staging area in parking lot at west side of parcel. Lot is on the shore, but has a timber retaining wall on the west side; concrete retaining wall on south and east sides.
Additional Considerations	Beach faces LIS but has a salt marsh that runs from west to north of parcel. The inlet to the marsh is on the west side of the beach, and is bounded by stone jetties. Beach has a stone seawall approximately 2.5 ft above the berm. This transitions into a double recurve concrete wall at the east end of the beach. West end of beach has rocky intertidal area.

Site 438 Burial Hill Beach
Westport, CT

Date: June 22, 2010

Direction: East

Description:

Beach profile from west side.

Date: June 22, 2010

Direction: Southwest

Description:

Rocky intertidal and inlet to salt marsh at west side of beach.

Site 438 Burial Hill Beach
Westport, CT

Date: June 22, 2010

Direction: North

Description:

Beach berm with concrete seawall and parking lot behind.

Date: June 22, 2010

Direction: South

Description:

Potential staging area in paved lot at back of beach.

Parcel	MBL
1	G05008000
2	G05006000
3	G05003000
4	G05001000
5	G05007000
6	H06042000
7	F05001000

Site 438 Westport, CT
Burial Hill Beach

Site 440 Compo Beach
Westport, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

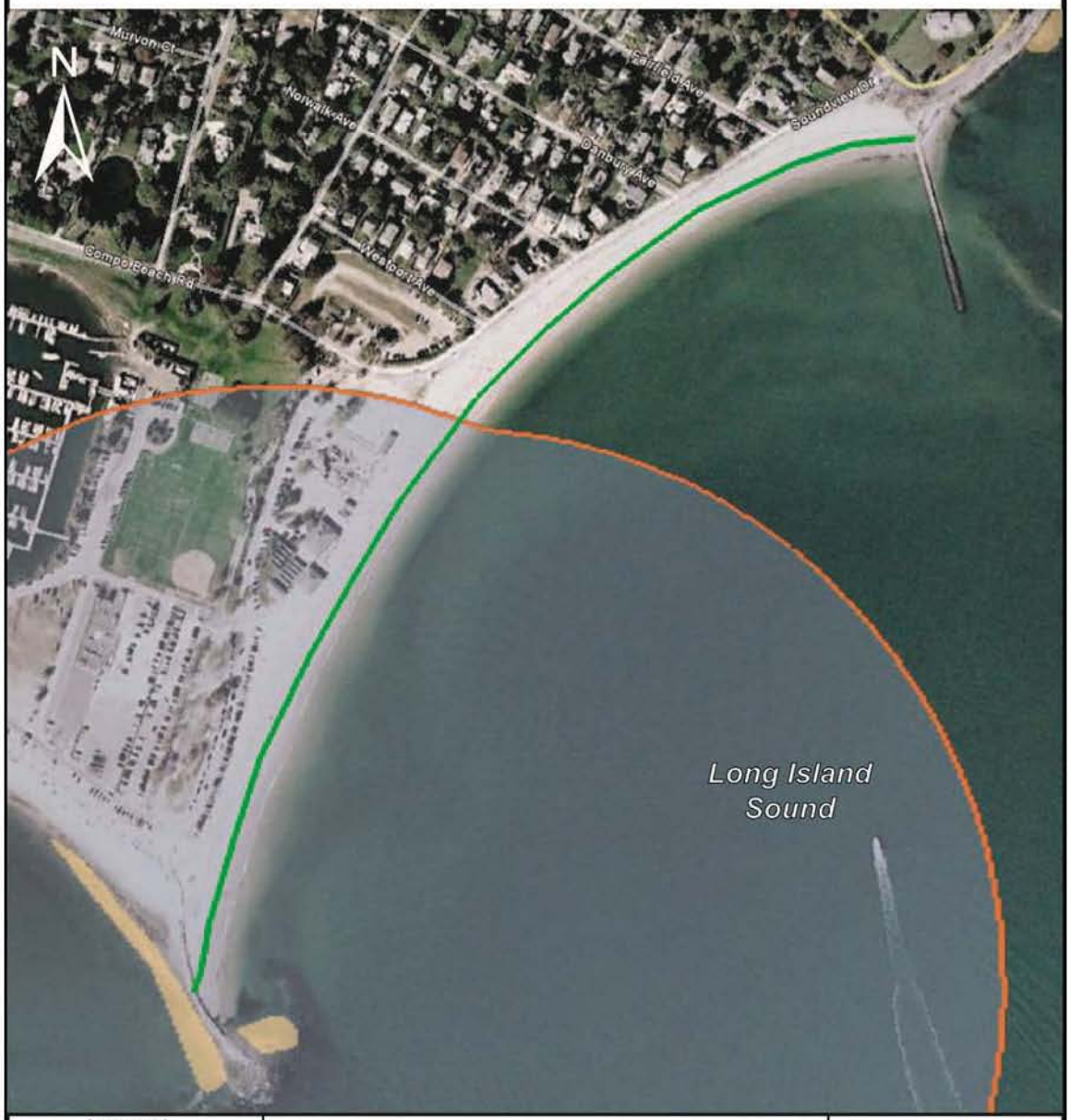
0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_440-2.ai

Site 440 Compo Beach
Westport, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 974
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-28-10
File: TO-0024_LIS_440-3.ai

Site 440 Compo Beach

Westport, CT

Site Address	Beachside Ave., Westport, CT
General Description	This is Federal Shore Protection area on Long Island Sound. Parcel has two long beaches; one faces east and the other faces southwest.
Ownership/POC	City of Westport, CT Janis Collins, Parks and Recreation (203) 222-9712
Zoning	A Single Family Residential
Surrounding Land Use	Residential to northeast and northwest; wetland and estuary on north side of parcel. Marina facility on northwest portion of parcel.
Wetlands	Yes. Mapped wetland on south end of parcel.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers most of site.
Sediment Type	Poorly sorted coarse-grained sand on east-facing beach. Cobble and gravel on southwest-facing beach
Nourishment Length	2,800 ft
Design Berm Width	100 ft
Capacity	65,800 cy
Site Access	Land – Compo Beach Rd. to secondary, paved roads on parcel. Water – LIS
Staging Area	Potential staging area in large paved lot behind the beaches.
Additional Considerations	Stone groins at north, south, and west ends of parcel. East-facing beach has capacity for sand. Southwest-facing beach would not be recommended for nourishment because of proximity to wetland and rocky intertidal habitat. Municipal park on parcel. yacht basin just behind on northwest side. Cultural resources present.

Site 440 Compo Beach
Westport, CT

Date: June 21, 2010

Direction: North

Description:

Profile of east-facing beach.

Date: June 21, 2010

Direction: South

Description:

Beach profile looking south, showing stone groin at southern end of parcel.

Site 440 Compo Beach
Westport, CT

Date: June 21, 2010

Direction: North

Description:

Beach berm with concrete seawall. Parking lot behind seawall.

Date: June 21, 2010

Direction: South

Description:

Potential staging area in paved lot at back of beach.

Parcel	MBL	Parcel	MBL
1	D03143000	17	D03093000
2	D03144000	18	D03119000
3	D03161000	19	D03034000
4	D03095000	20	D03033000
5	D03035000	21	E03001000
6	D03032000	22	OID:29979
7	E03004000	23	D03053000
8	D03165000	23	D03092000
9	D03054000	25	D03120000
10	D03031000	26	D03141000
11	D03159000	27	E03002000
12	D03160000	28	E03005000
13	D03142000	29	D03005000
14	D03016000	30	D03015000
15	D03163000	31	D03006000
16	D03094000		

Site 440 Westport, CT

Compo Beach

Site 449 Sherwood Island State Park Westport, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

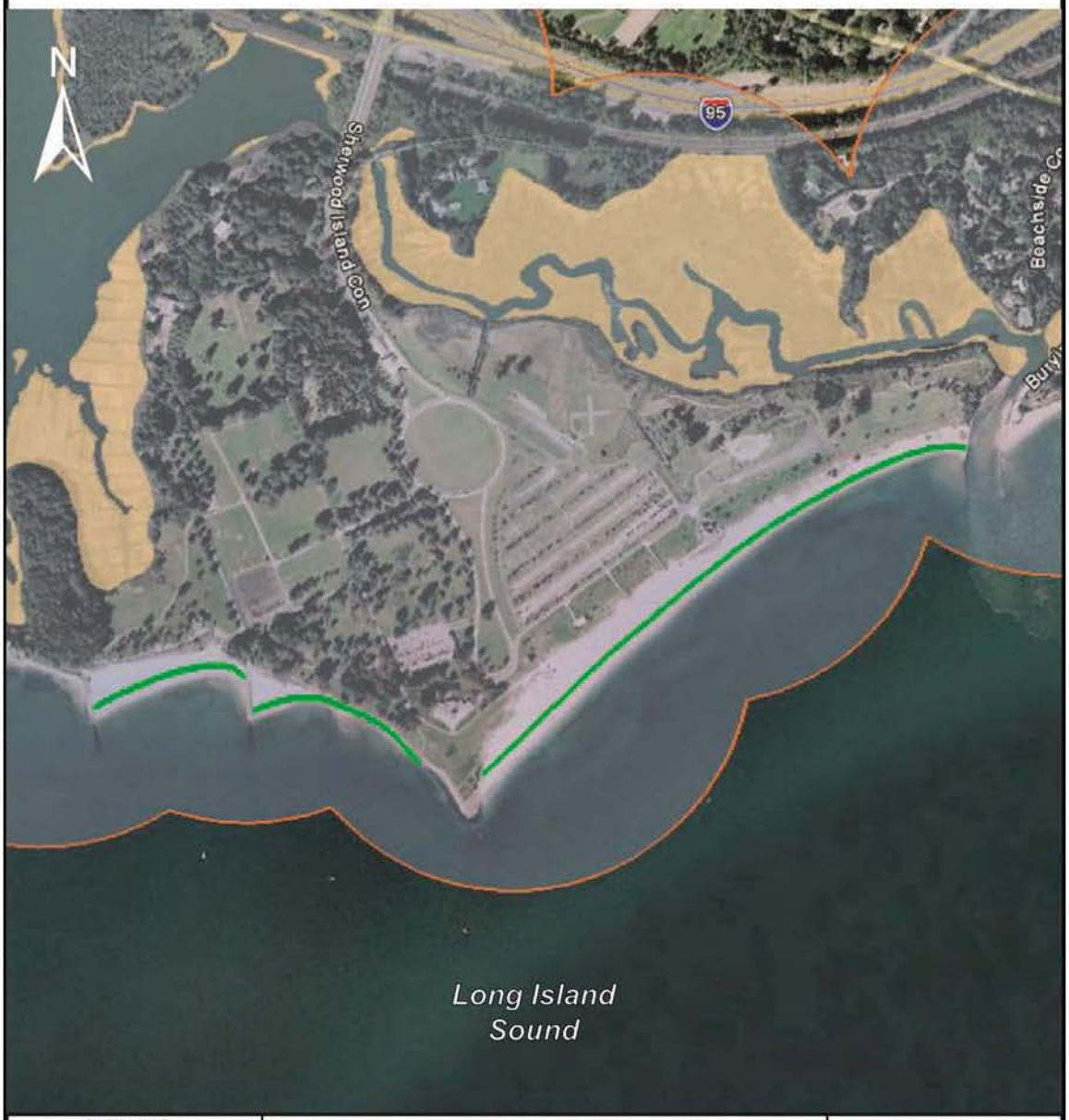
0 2500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_449-2.ai

Site 449 Sherwood Island State Park Westport, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 2500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_449-3.ai

Site 449 Sherwood Island State Park

Westport, CT

Site Address	Sherwood Island, Westport, CT
General Description	This is Federal Shore Protection area on Long Island Sound. Parcel has two beaches; one with wider berm facing southeast; the other is smaller, has less of a berm and more rocky intertidal, and faces southwest. Parcel also includes park/open space area at back of beaches.
Ownership/POC	City of Westport, CT Jon Cimochowaki, Bureau of Outdoor Recreation State Parks and Public Outreach (860) 424-3200 ext. 3204
Zoning	AAA Single Family Residential
Surrounding Land Use	Residential; wetlands on north and west sides of parcel.
Wetlands	Yes. Mapped wetlands on northern portion of parcel. Unmapped fringing wetlands noted on south facing beaches during site visit.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand on east-facing beach, becoming coarser with pebbles and debris toward northern end of this beach. Cobble and gravel on southwest-facing beach.
Nourishment Length	Three separate areas: 3,310 ft on southeast facing beach 1,060 ft on southwest facing beach, east of central groin 910 ft on southwest facing beach west of central groin
Design Berm Width	Three separate areas: 100 ft on southeast facing beach 64 ft on southwest facing beach, east of central groin 115 ft on southwest facing beach, west of central groin
Capacity	71,400 cy
Site Access	Land – Sherwood Island Connector; paved road through park. Water – LIS
Staging Area	Potential staging area in large paved lot behind the southeast facing beach.
Additional Considerations	Stone groins enclose beaches on both sides of parcel. Dune at east side of parcel. Municipal park on site. Rocky intertidal area and fringing marsh on south facing beach. Nourishment not calculated in vicinity of fringing marsh/wetland area. Cultural resources present.

Site 449 Sherwood Island State Park
Westport, CT

Date: June 21, 2010

Direction: West

Description:

Profile of southeast-facing beach.

Date: June 21, 2010

Direction: North

Description:

Profile of southwest facing beach.

Site 449 Sherwood Island State Park
Westport, CT

Date: June 21, 2010

Direction: West

Description:

Profile of southwest-facing beach. Rocky intertidal in foreground.

Date: June 21, 2010

Direction: North

Description:

Potential staging in paved lot at back of beach.

Parcel	MBL
1	G05017000
2	F05002000
3	E04077000
4	E04076000
5	G05015000
6	G05016000
7	G05011000
8	G05010000
9	G05014000
10	G05012000
11	G05013000
12	G05009000
13	G05008000
14	G05004000

Site 449 Westport, CT

Sherwood Island State Park

Site 181 Orchard Beach Bronx, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 8000
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-30-10
File: TO-0024_LIS_181-2.ai

Site 181 Orchard Beach Bronx, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 2328
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 9-3-10
File: TO-0024_LIS_181-3.ai

Site 181 Orchard Beach

Bronx, NY

Site Address	Orchard Beach Rd., Bronx, NY
General Description	Federal Shore Protection project located in the Bronx at the western end of Long Island Sound. The site contains a beach and associated recreational facilities. The beach was originally constructed by the City of New York between 1935 and 1937. Erosion has reduced the size of the recreational beach, causing severe overcrowding. The NY Dist USACE recommended plan of improvement includes initial beach nourishment, groin rehabilitation and periodic nourishment.
Ownership/POC	City of New York NY City Dept. of Parks and Recreation Frank Verga, Project Manager USACE NY District (917) 790-8212
Zoning	Not zoned
Surrounding Land Use	Residential properties to the north and south; commercial/industrial use to the west.
Wetlands	Yes. Mapped wetlands are present on the site but not in the beach area.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted fine-grained sand
Nourishment Length	5,400 ft (per USACE design)
Design Berm Width	n/a
Capacity	Currently in construction phase; 33,800 cy every 5 years (per USACE design)
Site Access	Land – Orchard Beach Rd. to paved beach parking lot Water – LIS to Pelham Bay
Staging Area	Potential staging area in paved parking lot landward of the beach; access for equipment from parking area, across roads through the recreational facilities, and down ramps to the beach.
Additional Considerations	Concrete seawall with boardwalk lines the landward edge of the entire beach; boardwalk is approx. 3 feet above the level of the beach. Beach is narrowest at the northern end; large ridge and runnel system at the southern end of the beach. Extensive recreational area between parking lot and boardwalk, with courts, playground, concessions, etc. Cultural resources present.

Site 181 Orchard Beach
Bronx, NY

Date: August 3, 2010

Direction: Northeast

Description:

Beach profile showing wide gently sloping beach and boardwalk.

Date: August 3, 2010

Direction: Southwest

Description:

Beach profile showing wide gently sloping beach.

Site 181 Orchard Beach

Bronx, NY

Date: August 3, 2010

Direction: Northeast

Description:

Paved boardwalk along the landward edge of the beach.

Date: August 3, 2010

Direction: West

Description:

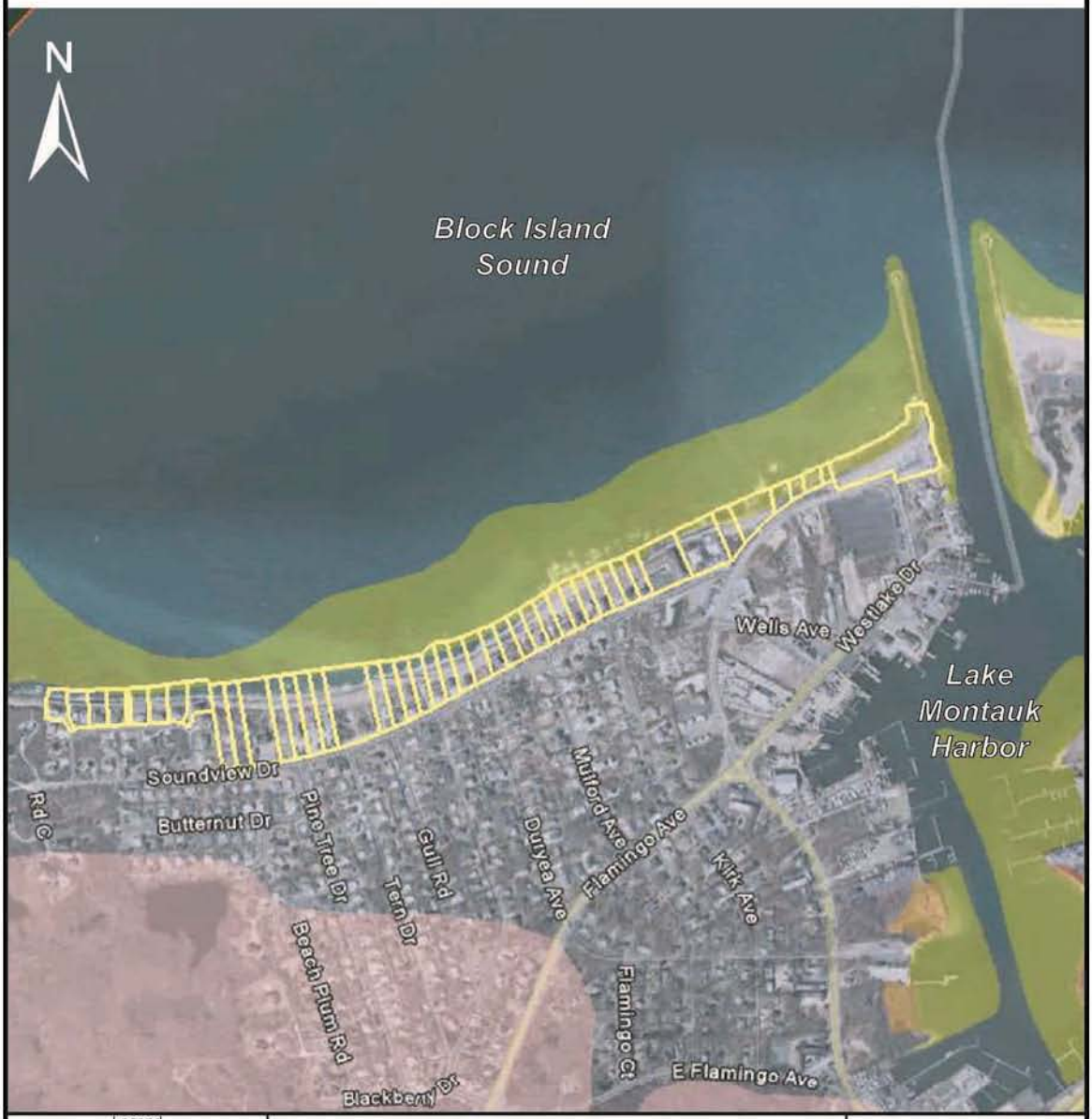
Access for foot traffic and recreational areas between parking lot and boardwalk.

Parcel	BBL
1	Bronx 5650 002

Site 181 Bronx, NY

Orchard Beach

Site 453 Lake Montauk Harbor East Hampton, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 2500
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 9-10-10
File: TO-0024_LIS_453-2.ai

Site 453 Lake Montauk Harbor East Hampton, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 2200
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-30-10
File: TO-0024_LIS_453-3.ai

Site 453 Lake Montauk Harbor

East Hampton, NY

Site Address	West Lake Dr./Soundview Dr., Montauk, NY
General Description	Federal Shore Protection project located on the south fork of Long Island on the west side of Lake Montauk Harbor. The USACE NY District has initiated a feasibility study to evaluate concerns over inadequate channel depths in Lake Montauk Harbor as well as erosion problems west of the inlet entrance. The site contains private properties and a municipal beach that are threatened by erosion.
Ownership/POC	Town of East Hampton, NY (Gosman's Beach); private properties. John Beldin-Quinones, Project Manager USACE NY District (917) 790-8242
Zoning	WF Waterfront
Surrounding Land Use	Commercial marinas and restaurants/residential properties to the west and south of the site; County park to the east.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of the site.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Moderately well sorted medium to fine-grained sand
Nourishment Length	5,100 ft (per USACE design)
Design Berm Width	n/a
Capacity	400,000 cy initial construction; 20,000 cy every year (per USACE design)
Site Access	Land – West Lake Dr./Gosman's Beach parking lot Water – Block Island Sound or Lake Montauk Harbor
Staging Area	Potential staging area in paved parking lot landward of Gosman's Beach; potential access for equipment directly from parking lot to the beach. Other potential access across dunes on two undeveloped properties located along Soundview Dr.
Additional Considerations	Gosman's Beach (immediately west of Lake Montauk Harbor inlet) is badly eroded; beach elevation is approx. 5-10 ft below the level of the beach parking lot and contains concrete rubble and asphalt. Beach erosion currently threatens portions of West Lake Dr. Private properties further to the west are protected by a combination of revetments and bulkheads; erosion along this stretch of beach is also significant. Cultural resources present.

Site 453 Lake Montauk Harbor
East Hampton, NY

Date: July 13, 2010

Direction: West

Description:

Beach profile showing narrow beach with eroded dunes.

Date: July 13, 2010

Direction: West

Description:

Beach profile showing cobble beach and coastal dune erosion.

Site 453 Lake Montauk Harbor
East Hampton, NY

Date: July 13, 2010

Direction: Northeast

Description:

Eastern end of beach showing significant erosion abutting the Lake Montauk Harbor jetties.

Date: July 13, 2010

Direction: South

Description:
Eroded beach and dune fronting the public beach parking lot at Gosman's Beach.

*Parcel numbers on next page

Site 453 East Hampton, NY
Lake Montauk Harbor

Parcel	DSBL
1	0300004000100015000
2	0300004000100016000
3	0300004000100017000
4	0300004000100020000
5	0300004000100021000
6	0300004000200001000
7	0300004000200002000
8	0300004000200003000
9	0300004000200004000
10	0300004000200005000
11	0300004000200007000
12	0300004000200008000
13	0300004000200010000
14	0300004000200011000
15	0300004000200012000
16	0300004000200013000
17	0300004000200014000
18	0300004000200015000
19	0300004000200016000
20	0300004000200017000
21	0300005000100001000
22	0300005000100002000
23	0300005000100003000
24	0300005000100005000
25	0300005000100007000
26	0300005000100008000
27	0300005000100010000
28	0300005000100011000
29	0300005000100012000
30	0300005000100015001
31	0300006000100001000
32	0300006000100002000
33	0300006000100004000
34	0300006000100006000
35	0300004000100019000
36	0300004000200006000
37	0300004000200009000
38	0300006000100005000
39	0300004000100022000
40	0300005000100006000
41	0300005000100009000
42	0300004000100018000
43	0300005000100004000
44	0300006000100003000
45	0300006000100008000

Parcel	DSBL
46	0300006000100027001
47	0300003000100001005
48	0300004000100011000
49	0300004000100012000
50	0300004000100013000
51	0300004000100014000
52	0300004000100023000
53	0300004000100024000
54	0300004000100025000
55	0300004000300007000
56	0300004000300008000
57	0300004000300009000
58	0300004000300010000
59	0300004000300011000
60	0300004000300012000
61	0300004000500015001
62	0300004000600001000
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64	0300005000200001000
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71	0300005000400002000
72	0300006000100012000
73	0300006000100013000
74	0300006000100014000
75	0300006000100016000
76	0300006000100017000
77	0300004000400001000
78	0300004000400017000
79	0300005000400003000
80	0300006000100015000
81	0300004000100002000
82	0300004000100010000
83	0300004000600017000
84	0300004000700001000
85	0300004000700002000
86	0300005000200002000
87	0300005000300004000

Site 453 East Hampton, NY

Lake Montauk Harbor

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Site 63 Asharoken Beach Huntington, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 4000
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_63-2.ai

Site 63 Asharoken Beach Huntington, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 4000
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_63-3.ai

Site 63 Asharoken Beach

Huntington, NY

Site Address	Asharoken Ave., Northport, NY
General Description	Federal Shore Protection project located on the north shore of Long Island. The USACE NY District is conducting a feasibility study to evaluate potential coastal storm damage risk reduction measures for Asharoken Beach and Asharoken Ave., which provides the only vehicular access to Eaton's Neck. Recent coastal storms have accelerated shoreline erosion and inundated heavily developed areas. Major losses due to coastal erosion and flooding have occurred.
Ownership/POC	Multiple private properties Ronald Pinzon, Project Manager USACE NY District (917) 790-8627
Zoning	R-20 Residential; R-40 Residential
Surrounding Land Use	Residential properties to the south of the site; National Grid power generating plant to the east.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats offshore of the beach; additional mapped wetlands along the estuary side of the barrier beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat along the western end of the beach; no mapped habitat elsewhere.
Sediment Type	Well sorted medium to fine-grained sand
Nourishment Length	12,400 ft (per USACE design)
Design Berm Width	n/a
Capacity	600,000 cy initial construction; 124,000 cy every 5 years (per USACE design)
Site Access	Land – Asharoken Ave.; potential beach access across the dunes on undeveloped properties along Asharoken Ave. Water – Long Island Sound
Staging Area	Limited; potential staging on adjacent Town of Huntington property (NY 5A) east of Asharoken Beach.
Additional Considerations	Most of the developed properties along the beach are protected by bulkheads or revetments; the undeveloped properties are in a natural condition; one stone groin is present near the western end of the beach. Dominant direction of sediment transport is from east to west. Eastern most end of beach, which is protected with a sheet pile bulkhead and rip rap, has experienced significant erosion and the road is threatened. Narrow dunes are present along much of the beach where the shoreline has been left in a natural condition. Cultural resources present.

Site 63 Asharoken Beach
Huntington, NY

Date: August 2, 2010

Direction: East

Description:

Beach profile near eastern end of the beach with National Grid power generating plant in the background.

Date: August 2, 2010

Direction: West

Description:

Beach and dune profile near the center of the beach showing undeveloped shorefront properties.

Site 63 Asharoken Beach
Huntington, NY

Date: August 2, 2010

Direction: East

Description:

Western end of Asharoken Ave. threatened by erosion and ongoing repair work on the shore protection structures.

Date: August 2, 2010

Direction: East

Description:

Shoreline at western end of the beach showing damage of existing shore protection structures.

*Parcel numbers on next page

Site 63 Huntington, NY

Asharoken Beach

Parcel	DSBL	Parcel	DSBL
1	0401007000100024000	61	0401007000100037000
2	0401007000100026000	62	0401004000100006000
3	0401007000100029000	63	0401004000100010000
4	0401007000100031000	64	0401004000100022000
5	0401007000100032000	65	0401004000100036000
6	0401007000100033000	66	0401004000100057000
7	0401007000100035000	67	0401004000100058000
8	0401007000100036000	68	0401004000100076000
9	0401008000100001000	69	0401006000100002002
10	0401008000100002001	70	0401006000100015000
11	0401008000100002002	71	0401006000100020000
12	0401008000100003000	72	0401006000100023000
13	0401008000100004000	73	0401007000100021000
14	0401008000100005000	74	0401008000100008000
15	0401008000100006000	75	0401008000100025000
16	0401008000100007002	76	0401008000100027000
17	0401008000100007003	77	0401003000100014000
18	0401008000100007004	78	0401004000100001000
19	0401008000100009000	79	0401004000100015000
20	0401008000100010000	80	0401004000100027000
21	0401008000100011000	81	0401004000100039000
22	0401008000100012000	82	0401004000100080000
23	0401008000100013000	83	0401004000100087000
24	0401008000100014000	84	0401004000100088000
25	0401008000100015000	85	0401004000100090000
26	0401008000100016000	86	0401006000100033000
27	0401008000100017000	87	0401006000100037000
28	0401008000100018000	88	0401006000100046001
29	0401008000100019000	89	0401007000100001000
30	0401008000100020000	90	0401007000100002000
31	0401008000100021000	91	0401003000100015000
32	0401008000100022000	92	0401003000100018000
33	0401008000100026000	93	0401003000100019000
34	0401008000100031000	94	0401004000100002000
35	0401003000100016000	95	0401004000100003000
36	0401003000100017000	96	0401004000100004000
37	0401004000100017004	97	0401004000100005000
38	0401004000100023000	98	0401004000100008001
39	0401004000100033000	99	0401004000100009000
40	0401004000100045000	100	0401004000100011000
41	0401004000100048000	101	0401004000100012000
42	0401004000100061000	102	0401004000100013000
43	0401004000100074000	103	0401004000100014000
44	0401004000100091000	104	0401008000100024000
45	0401006000100002001	105	0401008000100023000
46	0401006000100027000	106	0401007000100027000
47	0401007000100013000	107	0401007000100008000
48	0401007000100015000	108	0401004000100016001
49	0401007000100018003	109	0401004000100016002
50	0401007000100025000	110	0401004000100017003
51	0401007000100028000	111	0401004000100018000
52	0401007000100034000	112	0401004000100019000
53	0401004000100021000	113	0401004000100020000
54	0401004000100051000	114	0401004000100024000
55	0401004000100063000	115	0401004000100025000
56	0401004000100069000	116	0401004000100026000
57	0401006000100010000	117	0401004000100028000
58	0401007000100011000	118	0401004000100029000
59	0401007000100016000	119	0401004000100030000
60	0401007000100030000	120	0401004000100031000

Site 63 Huntington, NY

Asharoken Beach

Parcel	DSBL	Parcel	DSBL
121	0401004000100032000	181	0401006000100017000
122	0401004000100034000	182	0401006000100018000
123	0401004000100035000	183	0401006000100019000
124	0401004000100037000	184	0401006000100021000
125	0401004000100038000	185	0401006000100022000
126	0401004000100040000	186	0401006000100024000
127	0401004000100041000	187	0401006000100025000
128	0401004000100042000	188	0401006000100026000
129	0401004000100043000	189	0401006000100028000
130	0401004000100044000	190	0401006000100029000
131	0401004000100046000	191	0401006000100030000
132	0401004000100049000	192	0401006000100031000
133	0401004000100050000	193	0401006000100032000
134	0401004000100052000	194	0401006000100034000
135	0401004000100053002	195	0401006000100035000
136	0401004000100053003	196	0401006000100036000
137	0401004000100053005	197	0401006000100038000
138	0401004000100053006	198	0401006000100039000
139	0401004000100053007	199	0401006000100040000
140	0401004000100054000	200	0401006000100041000
141	0401004000100055000	201	0401006000100042000
142	0401004000100056000	202	0401006000100043000
143	0401004000100059000	203	0401006000100044000
144	0401004000100060000	204	0401006000100045000
145	0401004000100062000	205	0401006000100046002
146	0401004000100064000	206	0401007000100003000
147	0401004000100065000	207	0401007000100004000
148	0401004000100066000	208	0401007000100005000
149	0401004000100067000	209	0401007000100006000
150	0401004000100068000	210	0401007000100007000
151	0401004000100070000	211	0401007000100009000
152	0401004000100071000	212	0401007000100010000
153	0401004000100072000	213	0401007000100012000
154	0401004000100073000	214	0401007000100014000
155	0401004000100075000	215	0401007000100017001
156	0401004000100077000	216	0401007000100017002
157	0401004000100078000	217	0401007000100018002
158	0401004000100079000	218	0401007000100018004
159	0401004000100081000	219	0401007000100019001
160	0401004000100082001	220	0401007000100019002
161	0401004000100082002	221	0401007000100020000
162	0401004000100083001	222	0401007000100022000
163	0401004000100083002	223	0401007000100023000
164	0401004000100084000	224	0401008000200018000
165	0401004000100085000	225	0401008000200021000
166	0401004000100086000	226	0401008000200022000
167	0401004000100089000	227	0401008000200023000
168	0401006000100001000	228	0401008000200024003
169	0401006000100003000	229	0401008000200025000
170	0401006000100004000	230	0401008000200028000
171	0401006000100005000	231	0401008000200029000
172	0401006000100006000	232	0401004000200035000
173	0401006000100007000	233	0401004000200037003
174	0401006000100008000	234	0401004000200051000
175	0401006000100009000	235	0401004000200066001
176	0401006000100011000	236	0401004000200072000
177	0401006000100012000	237	0401004000200074000
178	0401006000100013000	238	0401006000200009000
179	0401006000100014000	239	0401006000200035000
180	0401006000100016000	240	0401006000200038000

Site 63 Huntington, NY

Asharoken Beach

Parcel	DSBL	Parcel	DSBL
241	0401007000200001002	301	0401004000200027000
242	0401007000200013001	302	0401004000200028000
243	0401008000200006000	303	0401004000200029000
244	0401008000200009000	304	0401004000200030000
245	0401008000200024002	305	0401004000200031000
246	0401008000200027001	306	0401004000200032000
247	0401004000200006000	307	0401004000200034000
248	0401004000200022000	308	0401004000200036000
249	0401004000200023000	309	0401004000200037002
250	0401004000200025000	310	0401004000200037005
251	0401004000200033000	311	0401004000200037006
252	0401004000200044000	312	0401004000200038000
253	0401004000200057000	313	0401004000200039000
254	0401004000200060000	314	0401004000200040000
255	0401006000200001000	315	0401004000200041000
256	0401006000200030000	316	0401004000200042000
257	0401006000200033000	317	0401004000200043000
258	0401007000200027000	318	0401004000200045000
259	0401008000200020000	319	0401004000200046000
260	0401004000200001000	320	0401004000200047000
261	0401004000200007000	321	0401004000200048000
262	0401004000200012000	322	0401004000200049000
263	0401004000200013000	323	0401004000200050000
264	0401004000200037007	324	0401004000200052000
265	0401006000200005000	325	0401004000200053000
266	0401006000200032000	326	0401004000200054000
267	0401006000200046001	327	0401004000200055000
268	0401007000200004000	328	0401004000200056000
269	0401007000200006000	329	0401004000200058000
270	0401007000200009000	330	0401004000200059000
271	0401008000200016000	331	0401004000200061000
272	0401008000200019000	332	0401004000200062000
273	0401004000200010000	333	0401004000200063000
274	0401006000200002001	334	0401004000200064000
275	0401006000200013000	335	0401004000200065000
276	0401006000200027000	336	0401004000200066002
277	0401006000200037000	337	0401004000200067001
278	0401006000200041000	338	0401004000200067002
279	0401006000200042000	339	0401004000200068000
280	0401007000200029000	340	0401004000200069000
281	0401008000200005000	341	0401004000200070000
282	0401008000200024004	342	0401004000200071000
283	0401004000200002000	343	0401004000200073000
284	0401004000200003003	344	0401004000200076000
285	0401004000200003004	345	0401006000200002002
286	0401004000200004000	346	0401006000200003000
287	0401004000200005000	347	0401006000200004000
288	0401004000200008000	348	0401006000200006000
289	0401004000200009000	349	0401006000200008000
290	0401004000200011000	350	0401006000200010000
291	0401004000200014000	351	0401006000200011000
292	0401004000200015000	352	0401006000200012000
293	0401004000200016000	353	0401006000200014000
294	0401004000200017000	354	0401006000200015000
295	0401004000200018000	355	0401006000200016000
296	0401004000200019000	356	0401006000200017000
297	0401004000200020000	357	0401006000200018000
298	0401004000200021000	358	0401006000200019000
299	0401004000200024000	359	0401006000200020000
300	0401004000200026000	360	0401006000200021000

Site 63 Huntington, NY

Asharoken Beach

Parcel	DSBL
361	0401006000200022000
362	0401006000200023000
363	0401006000200024000
364	0401006000200025000
365	0401006000200026000
366	0401006000200028000
367	0401006000200029000
368	0401006000200031000
369	0401006000200034000
370	0401006000200036000
371	0401006000200039000
372	0401006000200040000
373	0401006000200044000
374	0401007000200001001
375	0401007000200002000
376	0401007000200003000
377	0401007000200005000
378	0401007000200007000
379	0401007000200008000
380	0401007000200010000
381	0401007000200012001
382	0401007000200013002
383	0401007000200014001
384	0401007000200014002
385	0401007000200015000
386	0401007000200016000
387	0401007000200017000
388	0401007000200018000
389	0401007000200019001
390	0401007000200019002
391	0401007000200020000
392	0401007000200024007
393	0401007000200026000
394	0401007000200030000
395	0401008000200002001
396	0401008000200002002
397	0401008000200004002
398	0401008000200004003
399	0401008000200007000
400	0401008000200008000
401	0401008000200010000
402	0401008000200011000
403	0401008000200012001
404	0401008000200012002
405	0401008000200013000
406	0401008000200014000
407	0401008000200015000
408	0401008000200017000
409	0401003000200001000

Site 63 **Huntington, NY**

Asharoken Beach

Site 456 Bayville
Oyster Bay, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 2500
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_456-2.ai

Site 456 Bayville
Oyster Bay, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 1926
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_456-3.ai

Site 456 Bayville

Oyster Bay, NY

Site Address	Bayville Ave./Centre Island Rd., Oyster Bay, NY
General Description	Federal Shore Protection project located on the north shore of Long Island. Private properties and the municipal beach property in Bayville have experienced severe erosion during recent storms, causing major losses due to erosion and flooding. The USACE NY District is currently evaluating the economic benefits of alternative structural and non-structural risk reduction plans, while coordinating with NYSDEC and the Village of Bayville to determine whether such alternatives are locally acceptable.
Ownership/POC	Multiple private properties; Municipal Beaches (Soundside Beach Park and Centre Island Village Beach Park) Ronald Pinzon, Project Manager USACE NY District (917) 790-8627
Zoning	Residential
Surrounding Land Use	Commercial (hotel) west of project area; open space south of project area on eastern half; Residential surrounding other areas.
Wetlands	Yes. Mapped wetlands along the estuary side of the barrier beach; no mapped wetlands along the beach.
State and Federally Listed Species Habitat	Yes. Entire site is mapped habitat.
Sediment Type	Poorly sorted medium-grained sand with gravel
Nourishment Length	4,690 ft
Design Berm Width	100 ft
Capacity	77,200 cy
Site Access	Land – Bayville Ave./Centre Island Rd. to Soundside Beach Park; access directly from parking lot to beach Water – LIS
Staging Area	Potential staging area in paved parking lot at Soundside Beach Park located at the western end of the site; additional room for staging at Centre Island Village Beach Park on the south side of the barrier beach.
Additional Considerations	Beach has experienced significant erosion and the roadway at the eastern end of the site is currently threatened; concession/pavilion facilities at eastern end of the beach have been destroyed by recent storms. Most private properties near the western end of the site are protected with wooden bulkheads; fronting beaches are very narrow. Cultural resources present.

Site 456 Bayville
Oyster Bay, NY

Date: August 2, 2010

Direction: East

Description:

Beach profile along eastern end of Centre Island Village public beach with coastal dunes and shore protection adjacent to roadway.

Date: August 2, 2010

Direction: West

Description:

Beach profile along western end of Centre Island Village public beach.

Site 456 Bayville
Oyster Bay, NY

Date: August 2, 2010

Direction: East

Description:

Beach and shore protection alongside roadway at eastern end of beach.

Date: August 2, 2010

Direction: West

Description:

Bayville Ave./Center Island Rd. at eastern end of beach showing shore protection and eroding beach.

*Parcel numbers on next page

Site 456 Oyster Bay, NY
Bayville

Parcel	SBL
1	28-013-37
2	28-013-38
3	28-013-39
4	28-013-40
5	28-013-41
6	28-015-48
7	28-017-1
8	28-018-9
9	28-018-7
10	28-018-6
11	28-018-5
12	18-018-4
13	28-018-3
14	28-018-2
15	28-018-1
16	28-018-111
17	28-B-100
18	28-013-35
19	28-013-36
20	28-013-27
21	28-B-2033
22	28-C-41
23	28-C-40
24	28-G-33A
25	28-042-25
26	28-042-24
27	28-042-23
28	28-042-22
29	28-042-21
30	28-042-20
31	28-042-19
32	28-042-18
33	28-042-17
34	28-042-16
35	28-017-13
36	28-017-14
37	28-017-15
38	28-017-16
39	28-017-17
40	28-017-18
41	28-017-19
42	28-017-20
43	28-017-21
44	28-017-223
45	28-017-312
46	28-017-313
47	28-017-211
48	28-017-111

Parcel	SBL
49	28-015-25
50	28-015-27
51	28-015-28
52	28-015-29
53	28-015-30
54	28-015-31
55	28-015-32
56	28-015-33
57	28-015-44
58	28-015-35
59	28-015-36
60	28-015-37
61	28-015-38
62	28-015-39
63	28-015-40
64	28-014-60
65	28-014-59
66	28-014-58
67	28-013-34
68	28-013-33
69	28-013-32
70	28-013-31
71	28-038-128
72	28-037-98
73	28-037-97
74	28-037-96
75	28-037-95
76	28-037-94
77	28-037-93
78	28-037-92
79	28-037-91
80	28-036-91
81	28-036-76
82	28-036-75
83	28-036-74
84	28-036-73
85	28-013-1
86	28-013-10
87	28-013-12
88	28-013-14
89	28-013-16
90	28-013-18
91	28-013-20
92	28-013-22
93	28-013-24
94	28-013-26
95	28-B-2034

Site 456 Oyster Bay, NY

Bayville

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Site 454 East Hashamomuck Cove
Southold, NY
N
Long Island Sound
Bayberry Way
Ruch Ln
Bay View Ave
Colony Rd
Albertson Ln
Hashamomuck Pond
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat *(Covers Entire Site)
0
2500
Feet
Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-25-10
File: TO-0024_LIS_454 East-2.ai

Site 454 East Hashamomuck Cove Southold, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 2500
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_454 East-3.ai

Site 454 East Hashamomuck Cove

Southold, NY

Site Address	County Rd. 48, Southold, NY
General Description	Federal Shore Protection project located on the north fork of Long Island. The USACE NY District has recommended a feasibility-level investigation and is currently seeking a local county level sponsor. The site contains private/commercial properties and a county highway that are threatened by erosion.
Ownership/POC	Multiple private properties; Sound View Motel Nathanael Wales, Project Manager USACE NY District (917) 790-8731
Zoning	R-40 Residential low density AA RR Resort/Residential
Surrounding Land Use	Residential properties and commercial motel/restaurant property within the project area; residential/open space properties directly abut the project area and are located across County Rd. 48 to the south.
Wetlands	No. Mapped wetlands off site to the south across County Rd. 48.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand with gravel
Nourishment Length	6,260 ft
Design Berm Width	100 ft
Capacity	162,800 cy
Site Access	Land – Access via County Rd. 48 to Town Beach located at south end of the project area Water – LIS
Staging Area	Staging areas are limited to the Town Beach parking lot at the south end of the project area; potential staging on two undeveloped parcels without bulkheads located within the project boundaries.
Additional Considerations	Bulkheads/revetments in front of the motel, restaurant, and private properties are vulnerable to storm damage, and the beach fronting these properties has been subject to substantial erosion over the past 4 decades. County Rd. 48 is also threatened by the ongoing erosion. The dominant direction of sediment transport is from west to east, although sediment supply to the site from the west is limited due to coastal armoring.

Site 454 East Hashamomuck Cove
Southold, NY

Date: July 15, 2010

Direction: East

Description:

Seaward facing side of motel and restaurant property showing poorly organized shore protection and severe beach erosion.

Date: July 15, 2010

Direction: West

Description:

Beach profile and bulkheads in front of private properties at eastern end of project area.

Site 454 East Hashamomuck Cove
Southold, NY

Date: July 15, 2010

Direction: West

Description:

Beach profile and bulkheads in front of private properties near western end of project area.

Date: July 15, 2010

Direction: East

Description:

Beach profile with narrow dunes and bulkheads in front of private properties at western end of project area.

*Parcel numbers on next page

Site 454 East Southold, NY

Hashamomuck Cove

Parcel	DSBL
1	1000051000500001000
2	1000044000200021000
3	1000044000200022000
4	1000044000400005001
5	1000044000200023000
6	1000052000100001000
7	1000052000200019000
8	1000044000300001000
9	1000044000300002000
10	1000044000300003000
11	1000044000300004002
12	1000052000200020003
13	1000052000300001000
14	1000052000300021000
15	1000052000300022000
16	1000052000300024000
17	1000052000300025000
18	1000052000300026000
19	1000044000400001000
20	1000044000300004003
21	1000052000200020001
22	1000052000300023000
23	1000044000400004000
24	1000044000400003001
25	1000044000100001000
26	1000044000100003000
27	1000044000100006000
28	1000044000100007000
29	1000044000100008000
30	1000044000100009000
31	1000044000100011000
32	1000044000100014000
33	1000044000100015000
34	1000044000100016000
35	1000044000100018000
36	1000044000100019000
37	1000044000100020000
38	1000044000100021000
39	1000044000100022000
40	1000044000100023000
41	1000044000100025000
42	1000044000100026000

Parcel	DSBL
43	1000044000200001000
44	1000044000200003000
45	1000044000200004000
46	1000044000200005000
47	1000044000200007000
48	1000044000200008000
49	1000044000200010000
50	1000044000200011000
51	1000044000200012000
52	1000044000200013000
53	1000044000200016000
54	1000044000200017000
55	1000044000200018000
56	1000044000200020000
57	1000052000100002000
58	1000052000100003000
59	1000052000100004000
60	1000052000100006000
61	1000052000100009000
62	1000052000100010000
63	1000044000100028000
64	1000052000100005000
65	1000052000100007000
66	1000044000100005000
67	1000044000100010000
68	1000044000100013000
69	1000044000100017000
70	1000044000100024000
71	1000044000200006000
72	1000044000200009000
73	1000044000200019000
74	1000052000100008000
75	1000044000100002000
76	1000044000100012000
77	1000044000100029000
78	1000044000200002000
79	1000044000100004000
80	1000044000100027000
81	1000044000200014000
82	1000044000200015000
83	1000045000100009001

Site 454 East Southold, NY

Hashamomuck Cove

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Site 454 West Hashamomuck Cove Southold, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_454 West-2.ai

Site 454 West Hashamomuck Cove Southold, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 1247

Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_454 West-3.ai

Site 454 West Hashamomuck Cove

Southold, NY

Site Address	Leeton Dr., Southold, NY
General Description	Federal Shore Protection project located on the north fork of Long Island. The USACE NY District has recommended a feasibility-level investigation and is currently seeking a local county level sponsor. The site contains private properties and a municipal beach that are threatened by erosion.
Ownership/POC	Multiple private properties, Municipal Beach (Kenneys Beach) Nathanael Wales, Project Manager USACE NY District (917) 790-8731
Zoning	R-40 Residential low density AA
Surrounding Land Use	Residential properties and a municipal beach property are located within the project area; additional residential properties directly abut the project area.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of the site.
State and Federally Listed Species Habitat	Yes. Entire site is mapped habitat.
Sediment Type	Poorly sorted coarse-grained sand with gravel
Nourishment Length	2,160 ft
Design Berm Width	100 ft
Capacity	50,700 cy
Site Access	Land – Access via Kenneys Rd. and Leeton Dr Water – LIS
Staging Area	Staging areas are limited to the parking lot at Kenneys Beach located at the north end of the project area; access for equipment across footpaths through the dunes.
Additional Considerations	Private properties along the south end of the project area are protected with wooden bulkheads and a series of aluminum groins. The dominant direction of sediment transport is from west to east. Restored dune area with beach grass between parking lot and beach at Kenneys Beach.

Site 454 West Hashamomuck Cove
Southold, NY

Date: July 12, 2010

Direction: West

Description:

Beach profile at Kenneys Beach showing steeply sloping foreshore and restored coastal dunes with beach grass.

Date: July 12, 2010

Direction: West

Description:

Beach profile at south end of Kenneys Beach showing deteriorating seawall and aluminum groin on abutting private property.

Site 454 West Hashamomuck Cove
Southold, NY

Date: July 12, 2010

Direction: East

Description:

Beach profile with aluminum groins and bulkheads in front of private properties near southern end of the project area.

Date: July 12, 2010

Direction: East

Description:

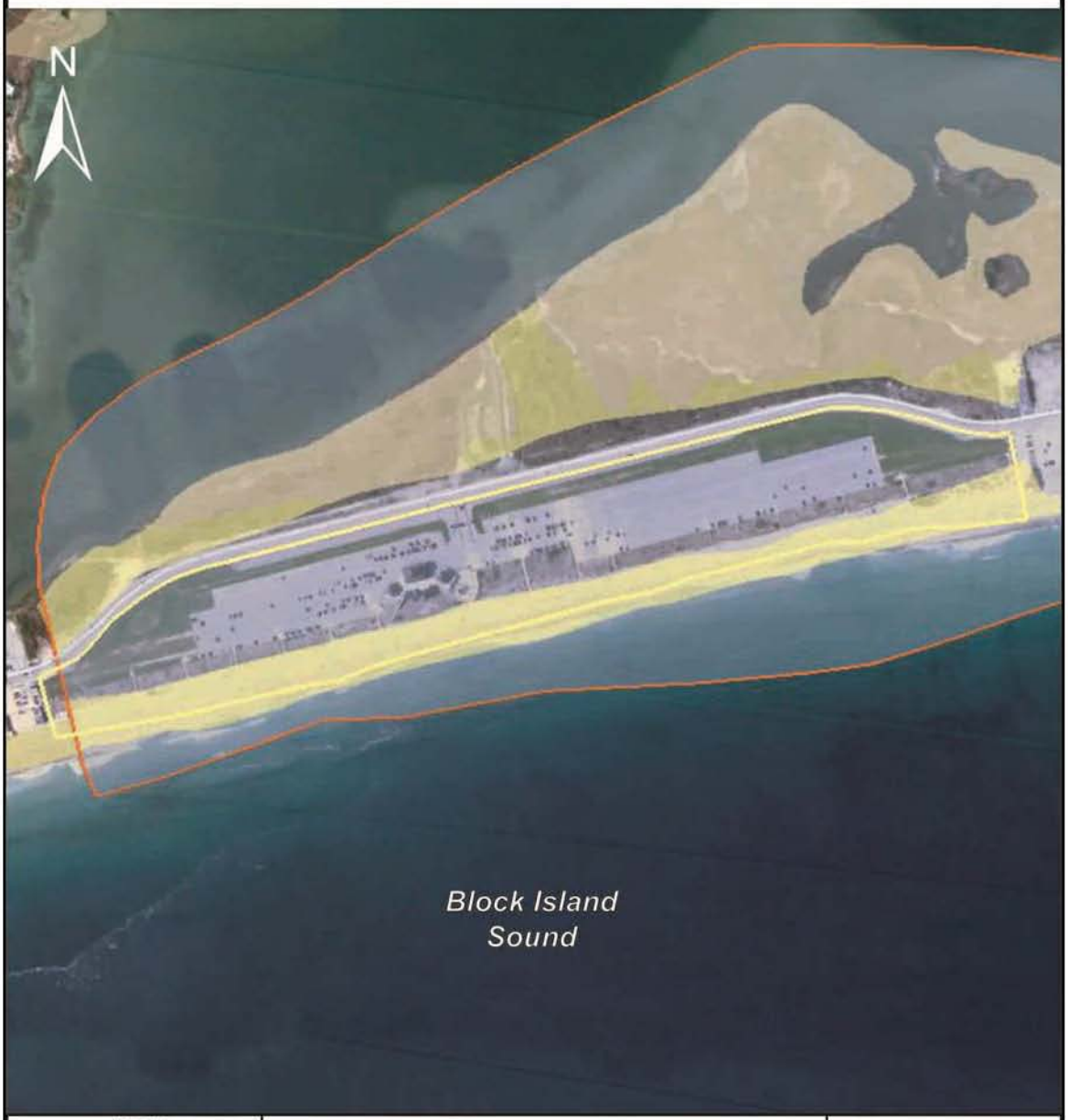
Potential staging for trucks and grading equipment in parking lot at Kenneys beach.

Parcel	DSBL	Parcel	DSBL
1	1000058000200002000	22	1000054000400003000
2	1000058000200003000	23	1000054000400037000
3	1000058000200004000	24	1000058000200009000
4	1000059000100016000	25	1000058000200010000
5	1000054000400001000	26	1000058000200016000
6	1000058000200005000	27	1000059000100008000
7	1000058000200006000	28	1000059000100009000
8	1000058000200007000	29	1000059000100010000
9	1000058000200011000	30	1000059000100012000
10	1000058000200013000	31	1000059000100013000
11	1000058000200015002	32	1000059000100014000
12	1000059000100001000	33	1000059000100015000
13	1000059000100003001	34	1000059000100017000
14	1000059000100004000	35	1000059000100018000
15	1000059000100005000	36	1000059000100024000
16	1000059000100006000	37	1000059000500001001
17	1000059000100007000	38	1000058000200008000
18	1000058000200020001	39	1000059000100011000
19	1000058000200001000		
20	1000058000200012000		
21	1000054000400002000		

Site 454 West Southold, NY

Hashamomuck Cove

Site 384 Misquamicut Beach Westerly, RI



Legend

Mapped Wetlands
- Emergent Wetland
- Esturine Emergent Wetland
- Marine/Esturine Rocky Shore
- Marine/Esturine Unconsolidated
- Palustrine Open Water
- Scrub-Shrub Swamp

Mapped Habitat
- Federal/State Listed Species Habitat

0 500 1000 1500
Feet

Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)

US Army Corps of Engineers

Date: 8-30-10
File: TO-0024_LIS_384-2.ai

Site 384 Misquamicut Beach Westerly, RI

Legend

Mapped Wetlands
- Emergent Wetland
- Esturine Emergent Wetland
- Marine/Esturine Rocky Shore
- Marine/Esturine Unconsolidated
- Palustrine Open Water
- Scrub-Shrub Swamp

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 500 1000 1500
Feet

Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)

US Army Corps of Engineers

Date: 8-30-10
File: TO-0024_LIS_384-3.ai

Site 384 Misquamicut State Beach

Westerly, RI

Site Address	257 Atlantic Ave., Westerly, RI
General Description	Federal Shore Protection area and State Beach on Block Island Sound. Site has a large public beach and recreation area.
Ownership/POC	State of Rhode Island Steve Wright, Physical Operations/Systems Mgr. RI Parks and Recreation Division (401) 596-9097
Zoning	OSR Open Space/Residential
Surrounding Land Use	Commercial (hotels and restaurants) east and west of parcel, open space north of beach, residential in other surrounding areas.
Wetlands	Yes. Mapped wetlands on site are unconsolidated sandy shoreline along entire beach. Mapped wetlands are adjacent to parcel north of the barrier beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium to fine-grained sand
Nourishment Length	3,240 ft
Design Berm Width	100 ft
Capacity	32,000 cy
Site Access	Land – Atlantic Ave. Water – Block Island Sound
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Erosion evident on beach and dunes, and sand fencing has been placed along toe of dune on west side of parcel. Surf zone is a high-energy area with 1-2 foot waves during site visit. Nearby restaurants reportedly truck in sand when needed. Vegetated dunes along most of the length of the beach. Winnapaug Pond and wetland runs along entire length of beach on opposite side of the road, behind the beach and parking lot. A culvert crosses under the road approximately ½ mile from site, providing saltwater flow to the wetland. Access for construction vehicles possible in breaks between dunes; may require widening gap or access from adjacent properties. Cultural resources present.

Site 384 Misquamicut State Beach
Westerly, RI

Date: July 15, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 15, 2010

Direction: East

Description:

Beach profile looking east.

Site 384 Misquamicut State Beach
Westerly, RI

Date: July 15, 2010

Direction: North

Description:

Dune at back of beach. Lifeguard chair is placed in dunes because high tide almost reaches toe of dune.

Date: July 15, 2010

Direction: Southeast

Description:

Potential staging area in paved lot behind beach.

Parcel	MBL
1	165-279
2	165-278
3	166-009
4	166-010
5	166-007

Site 384 Westerly, RI

Misquamicut State Beach

Site 82/455 Bailie's Beach and Mattituck Harbor 111 Mattituck, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

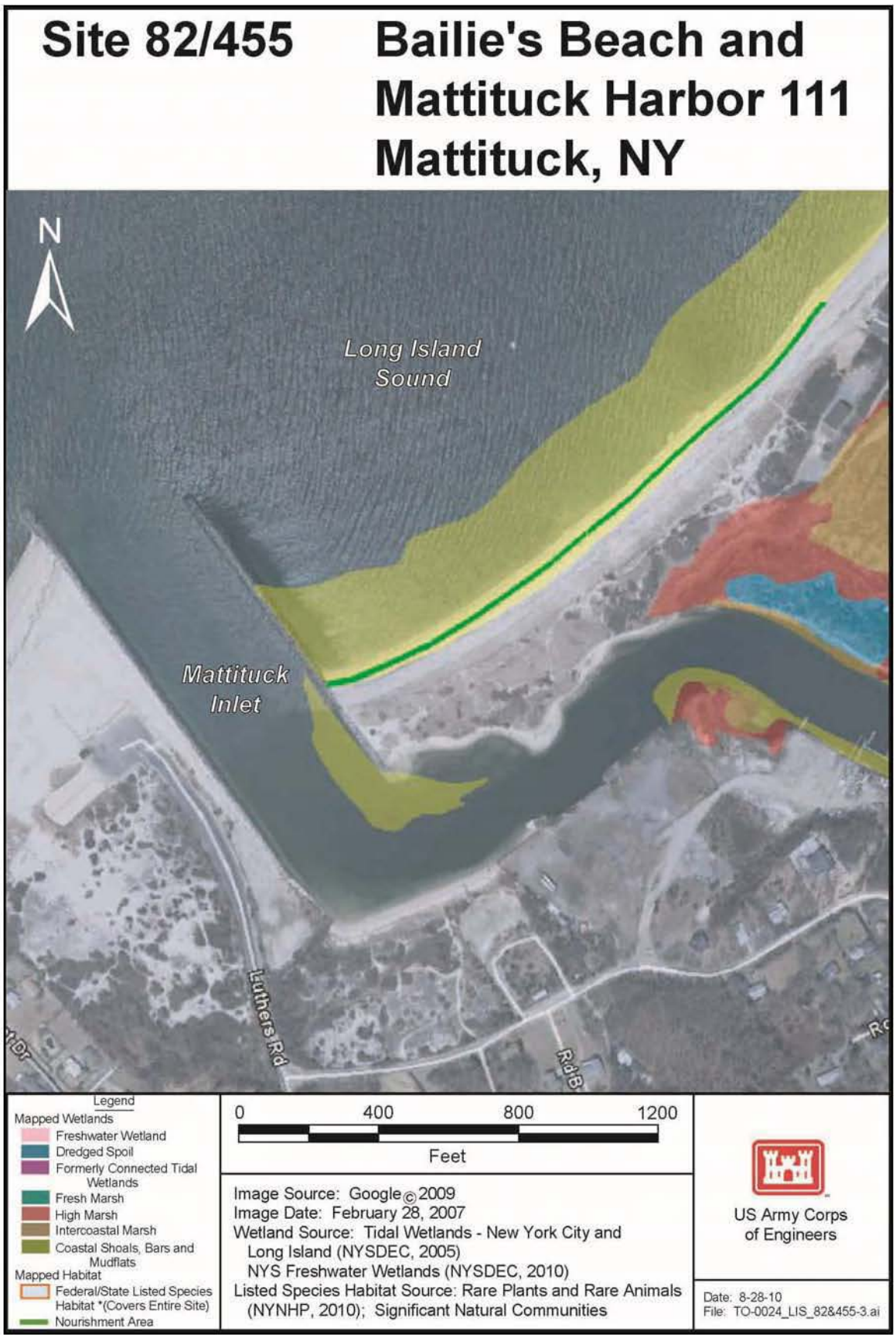
Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-28-10
File: TO-0024_LIS_82&455-2.ai


Site 82/455
Bailie's Beach and
Mattituck Harbor 111
Mattituck, NY
N
Long Island
Sound
Mattituck
Inlet
Luthers Rd
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat *(Covers Entire Site)
Nourishment Area
0
400
800
1200
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-28-10
File: TO-0024_LIS_82&455-3.ai

Sites 82 & 455 Bailie's Beach and Mattituck Harbor 111

Mattituck, NY

Site Address	Bailie's Beach Rd., Mattituck, NY
General Description	Federal Shore Protection site and Municipal Beach (Mattituck Park District - neighborhood association beach) on the east side of Mattituck Inlet. This site forms the sandy barrier between Long Island Sound and Mattituck Inlet. The area has narrowed and could be breached by coastal storms. A breach would render the stabilized inlet inoperative and would create navigational and economic dislocations.
Ownership/POC	Town of Southold, NY Jim McMahon, Director of Public Works (631) 298-9103 USACE Contact Diane Rahoy (917) 790-8263
Zoning	R80 Residential Low Density
Surrounding Land Use	Residential; open space/wetland behind beach; Mattituck Inlet to west and south.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of beach; additional mapped wetlands in vegetated area between beach berm and Mattituck Creek.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium sand with some pebbles
Nourishment Length	4,000 ft (per USACE design)
Design Berm Width	n/a
Capacity	100,000 cy initial construction; 92,000 cy every 9 years (per USACE design)
Site Access	Land – Bailie's Beach Rd. Water – LIS just east of Mattituck Inlet
Staging Area	Potential staging area in small paved area at end of Bailie's Beach Rd. Access to beach is for pedestrians only, through break in guardrail. Equipment may need to be moved to beach via other access route.
Additional Considerations	Erosion evident on site visit. Town used dredged material to renourish the beach in 2008 but sand is now gone. Beach is recessed relative to jetty at Mattituck Inlet, and erosion is evident at the toe of dune. Dune and wetland adjacent to beach, but not in area of proposed nourishment.

Sites 82 & 455 Bailie's Beach and Mattituck Harbor 111
Mattituck, NY

Date: July 12, 2010

Direction: West

Description:

Beach profile showing jetty at Mattituck Inlet.

Date: July 12, 2010

Direction: North

Description:

Jetty at east side of Mattituck Inlet, showing sand offset.

Sites 82 & 455 Bailie's Beach and Mattituck Harbor 111
Mattituck, NY

Date: July 12, 2010

Direction: West

Description:

Bluff and dune at back of beach.

Date: July 12, 2010

Direction: North

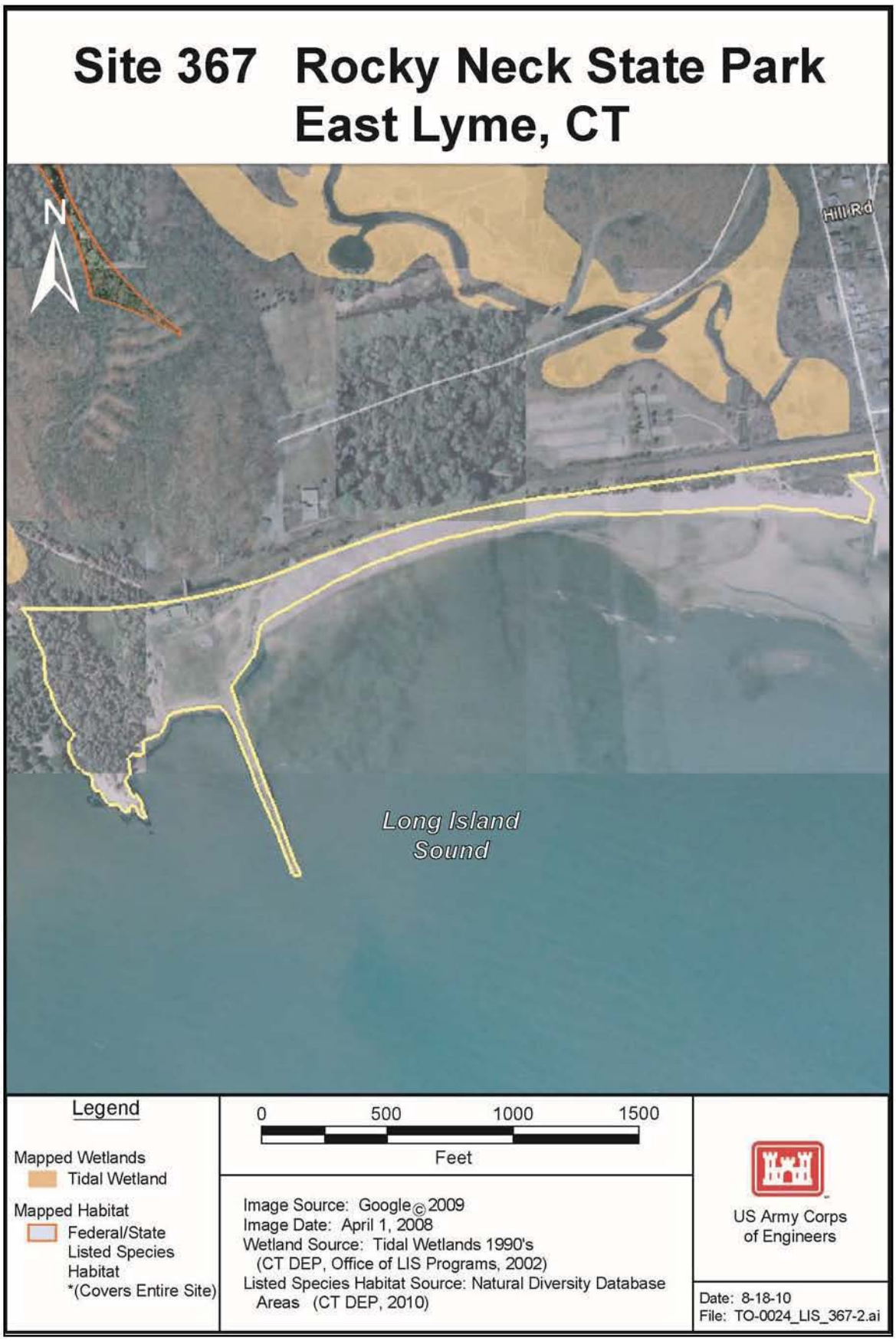
Description:

Potential staging in small paved parking area behind beach.

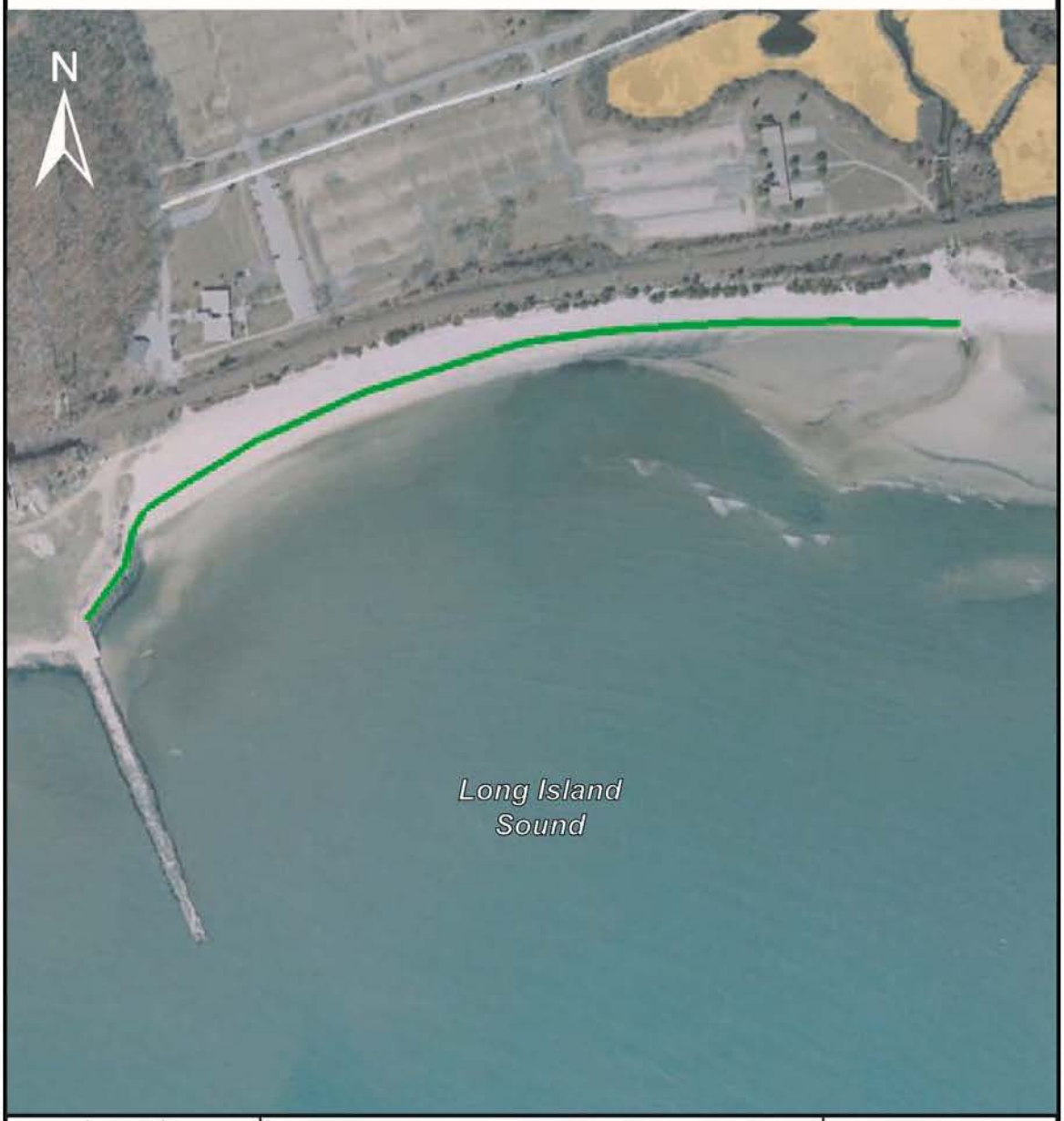
Parcel	DSBL
1	1000099000300009004
2	1000099000300009005
3	1000099000300010000
4	1000099000300011005
5	1000099000300011009
6	1000099000300011011
7	1000099000300011014
8	1000099000300011015
9	1000099000300011017
10	1000099000300011018
11	1000099000300011019
12	1000099000300012000
13	1000099000300013000
14	1000099000300015001
15	1000099000300023001
16	1000099000300009002
17	1000099000300011003

Site 82/455 Mattituck, NY

Bailie's Beach/Mattituck Harbor 111


Site 367 Rocky Neck State Park
East Lyme, CT
N
Hill Rd
Long Island
Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
*(Covers Entire Site)
0
500
1000
1500
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-18-10
File: TO-0024_LIS_367-2.ai

Site 367 Rocky Neck State Park
East Lyme, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 1175
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_367-3.ai

Site 367 Rocky Neck State Park

East Lyme, CT

Site Address	244 West Main St., East Lyme, CT
General Description	State Beach with park, camping and recreation area. Situated on Long Island Sound just west of Niantic Bay.
Ownership/POC	State of Connecticut Jon Cimochowaki, Bureau of Outdoor Recreation State Parks and Public Outreach (860) 424-3200 ext. 3204
Zoning	RU 40 Rural
Surrounding Land Use	Residential to west and east; open space to north.
Wetlands	No. Mapped wetland north of site connected by recently constructed culvert through eastern end of beach.
State and Federally Listed Species Habitat	No.
Sediment Type	Well sorted fine sand
Nourishment Length	2,330 ft
Design Berm Width	150 ft
Capacity	10,400 cy
Site Access	Land – a narrow, paved road runs through park, under railroad trestle at west end of the beach. Road becomes dirt at the trestle. Water – LIS
Staging Area	Potential staging area in large dirt/gravel parking lot behind beach.
Additional Considerations	Beach berm is narrow; vegetated dunes run along much of the beach. Small stone groin at east end near culvert (barely extends beyond tide line). Extensive groin at west end, bordered by a rock revetment with grassy picnic area and rocky outcrops on upland side. Access to trucks and machinery possible but may be tight under the railroad trestle. Railroad runs through site just behind the beach. Cultural resources present.

Site 367 Rocky Neck State Park
East Lyme, CT

Date: July 16, 2010

Direction: East

Description:

Beach profile looking east.

Date: July 16, 2010

Direction: West

Description:

Beach profile looking west.

Site 367 Rocky Neck State Park
East Lyme, CT

Date: July 16, 2010

Direction: East

Description:

Rock revetment at west side of parcel, with view of beach to the east.

Date: July 16, 2010

Direction: North

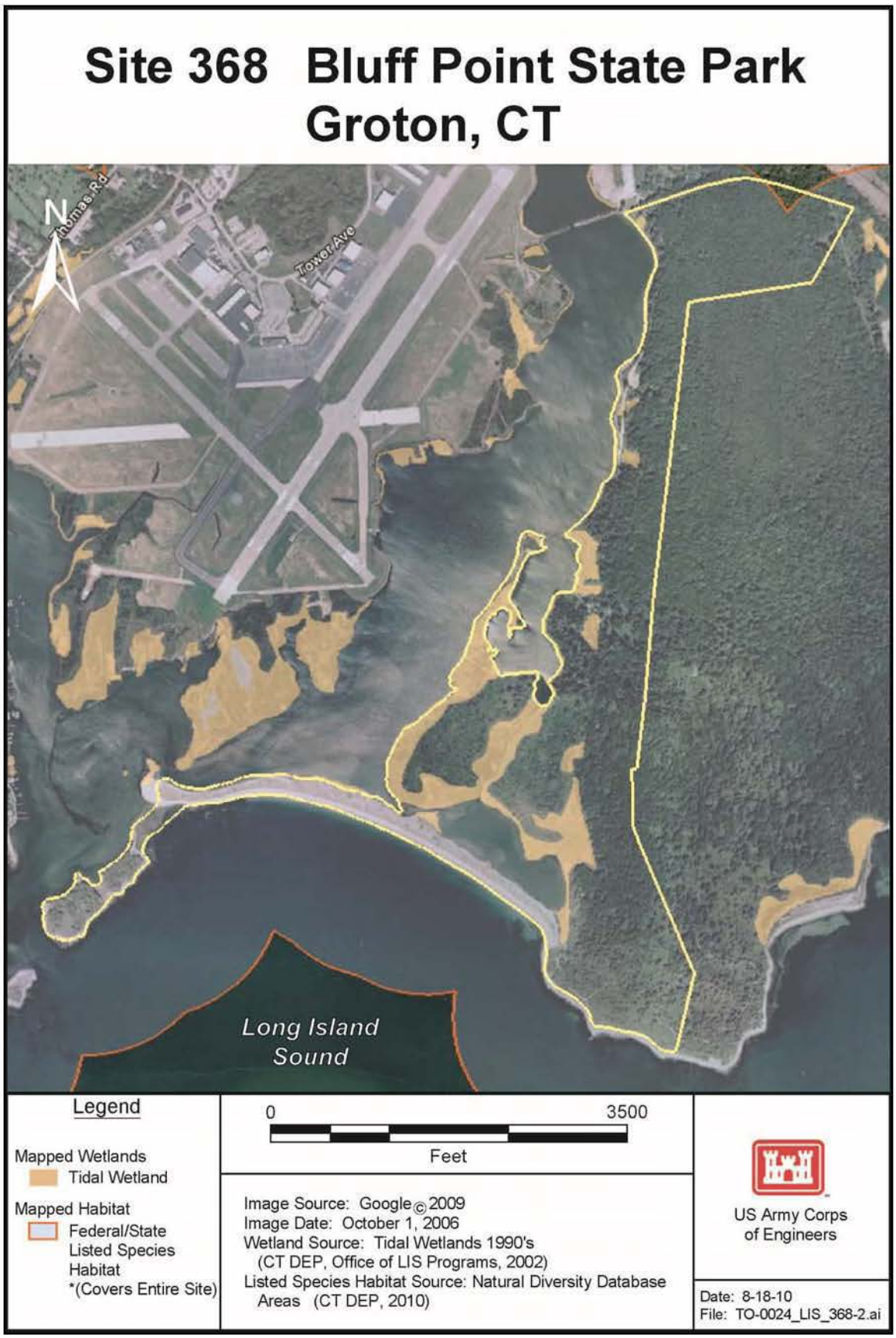
Description:

Access to site via unpaved road under railroad trestle at west end. Potential staging area in parking lot behind beach and trestle.

Parcel	MBL
1	09.0 38
2	04.9 3
3	04.9 6

Site 367 East Lyme, CT

Rocky Neck State Park


Site 368 Bluff Point State Park
Groton, CT
N
Thomas Rd
Tower Ave
Long Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0
3500
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_368-2.ai

Site 368 Bluff Point State Park Groton, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 644 1288 1932
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_368-3.ai

Site 368 Bluff Point State Park

Groton, CT

Site Address	0 Depot Rd., Groton, CT
General Description	State Park with barrier beach running east-west; Long Island Sound on the south side and the Poquonnock River on the north. East side of beach has a large bluff; west side is Bushy Point.
Ownership/POC	State of Connecticut Jon Cimochowaki, Bureau of Outdoor Recreation State Parks and Public Outreach (860) 424-3200 ext. 3204
Zoning	RS 20 Residential
Surrounding Land Use	Forested open space to the northeast, open space/wetland behind barrier beach; residential to the west and north; Groton/New London airport to the northwest.
Wetlands	Yes. Mapped wetlands north of barrier beach along Poquonnock River.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Mostly pebbles and some gravel at east end Coarse sand and gravel with pebbles at west end
Nourishment Length	4,260 ft
Design Berm Width	100 ft
Capacity	131,200 cy
Site Access	Land – 1.5 mile access path restricted to pedestrians and bicycles only. No vehicular traffic is allowed. Water – LIS
Staging Area	No staging area near beach; see above text on site access.
Additional Considerations	Site is a Coastal Reserve, created by a special legislative act in 1975 with the goal of "preserving its native ecological associations, unique faunal and floral characteristics, geological features and scenic qualities in a condition of undisturbed integrity". As such the site is accessible only by foot or non-motorized vehicles. The long, narrow beach is a remnant of the continental glaciers and subsequent erosion, which is ongoing. Sediment transport is east-west, with material accreting at the west end. Cultural resources present.

Site 368 Bluff Point State Park
Groton, CT

Date: July 16, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 16, 2010

Direction: West

Description:

West side of beach, showing gravel and pebble sediments.

Site 368 Bluff Point State Park
Groton, CT

Date: July 16, 2010

Direction: North

Description:

Vegetated dune at east end of beach, behind the berm.

Date: July 16, 2010

Direction: South

Description:

Access to beach via 1.5 mile unpaved path. Access to pedestrians and non-vehicular traffic only.

Parcel	MBL
1	169815744740
2	169815646225
3	169820813126

Site 368 Groton, CT

Bluff Point State Park

Site 171 Wildwood State Park
Wading River, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

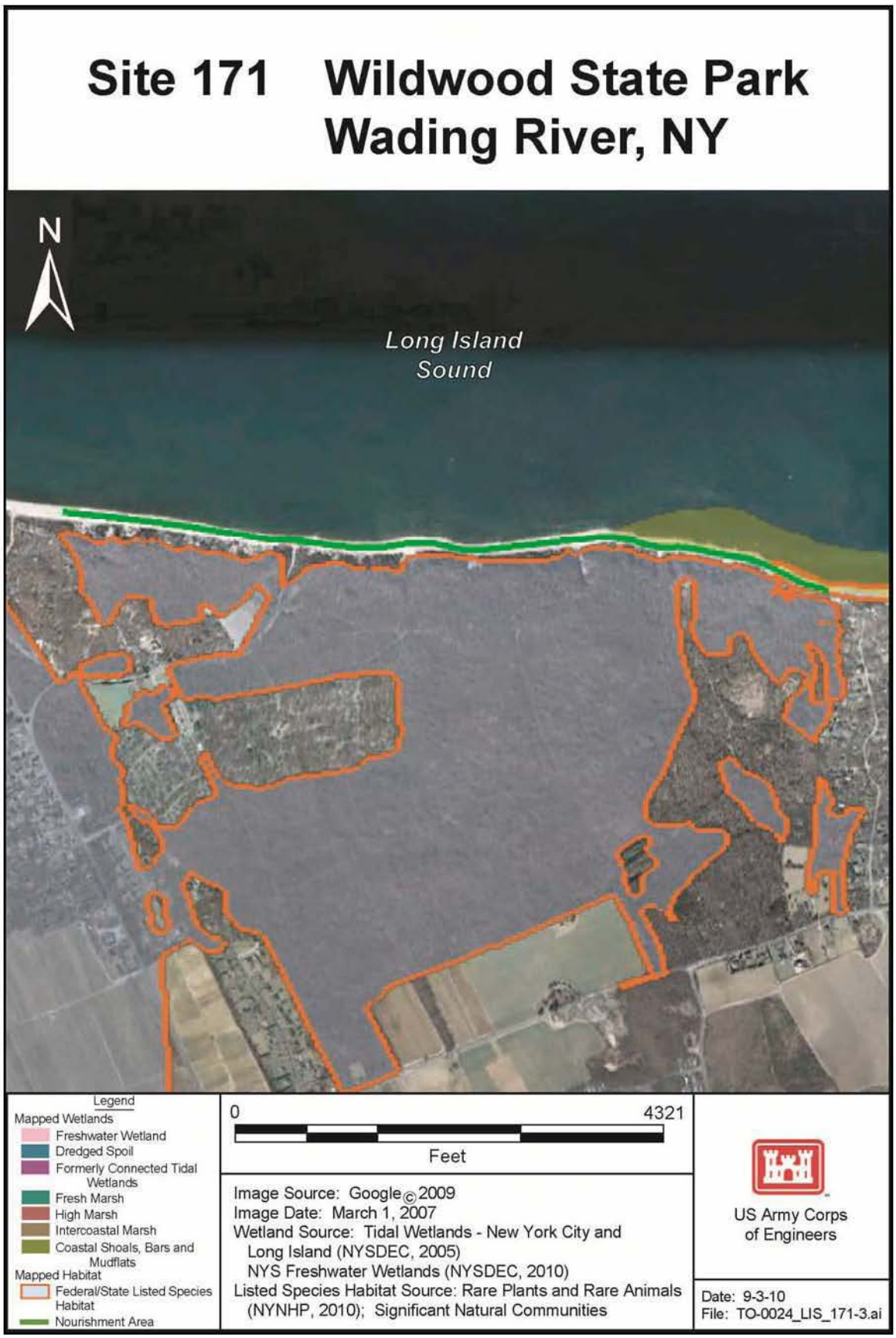
0 3500

Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_171-2.ai


Site 171 Wildwood State Park
Wading River, NY
N
Long Island Sound
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Nourishment Area
0
4321
Feet
Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 9-3-10
File: TO-0024_LIS_171-3.ai

Site 171 Wildwood State Park

Wading River, NY

Site Address	North Wading River Rd., Wading River, NY
General Description	State Park located on the north shore of Long Island. The park is a large parcel that contains a beach, concession stand, bathing facilities, campground, recreational fields, picnic areas, and walking trails.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	Not zoned
Surrounding Land Use	Residential properties to the east and west; agricultural land to the south; additional open space to the west.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats offshore of the beach at the eastern end of the site.
State and Federally Listed Species Habitat	Yes. Mapped habitat throughout upland portions of the site; coastal bluffs and beach are not in mapped habitat.
Sediment Type	Poorly sorted coarse to medium-grained sand with gravel
Nourishment Length	7,930 ft
Design Berm Width	100 ft
Capacity	164,100 cy
Site Access	Land – North Wading River Rd. to access path off parking lot; possible beach access via Hulse Landing Rd. located off site to the west. Water – LIS
Staging Area	Potential staging area in paved parking lot landward of beach and bluff; access for equipment from parking area to beach via one lane paved road down coastal bluff; road changes to dirt access ramp at base of coastal bluff.
Additional Considerations	Concession building is elevated approx. 12 ft above the level of the beach with building infrastructure exposed underneath. Coastal bluffs landward of the beach are approx. 60 ft high and show signs of erosion; base of bluff around concession is armored with rip rap and a concrete retaining wall. Storm drain outfall through the rip rap east of the concession building causing erosion of the beach. Access road from parking lot to beach is steep and not suitable for large trucks. Cultural resources present.

Site 171 Wildwood State Park
Wading River, NY

Date: July 14, 2010

Direction: East

Description:

Beach profile showing eroding coastal bluff.

Date: July 14, 2010

Direction: West

Description:

Beach profile showing concession building and eroding coastal bluffs in the background.

Site 171 Wildwood State Park
Wading River, NY

Date: July 14, 2010

Direction: West

Description:

Access ramp at base of bluff with rip rap on seaward side.

Date: July 14, 2010

Direction: South

Description:

Access road and footpath between parking lot and beach.

*Parcel numbers on next page

Site 171 Wading River, NY

Wildwood State Park

Parcel	DSBL
1	0600034000100024000
2	0600034000100039000
3	0600034000100040000
4	0600034000100052001
5	0600034000100054001
6	0600034000100054003
7	0600037000100001000
8	0600037000100002002
9	0600037000100003002
10	0600037000100003003
11	0600037000200001000
12	0600037000200002000
13	0600037000200003000
14	0600037000200004000
15	0600037000200007000
16	0600037000200008002
17	0600037000200009000
18	0600037000200017000
19	0600037000200018000
20	0600038000100002001
21	0600038000200005000
22	0600038000200006000
23	0600038000200007000
24	0600038000200008000
25	0600038000200009000
26	0600038000200023000
27	0600038000200024001
28	0600038000200025002
29	0600038000200027000
30	0600038000200034000
31	0600038000200036000
32	0600038000200041000
33	0600038000200043001
34	0600038000200049002
35	0600038000200049003
36	0600053000100021001
37	0600053000100022000
38	0600053000100040001
39	0600053000100041000
40	0600053000200029000
41	0600058000200002001
42	0600058000200004002
43	0600058000200007000
44	0600058000200008000
45	0600058000200009000
46	0600058000200010016
47	0600058000200010017
48	0600058000200010018
49	0600058000200010019
50	0600058000200010020
51	0600058000200010022
52	0600058000200010023
53	0600058000200010024
54	0600058000200010027
55	0600058000200010028
56	0600058000200010029
57	0600058000200010031
58	0600058000200010033
59	0600058000500001000
60	0600059000100001001
61	0600059000100001002
62	0600059000100003003
63	0600059000100004000
64	0600059000200001000
65	0600059000200003001
66	0600059000200003006
67	0600059000200003010
68	0600059000200003011
69	0600059000200003013
70	0600059000200005001
71	0600037000200005000
72	0600037000200008001
73	0600038000200044000
74	0600038000200051000
75	0600058000200005000
76	0600058000200010026
77	0600059000200007000
78	0600034000100015000
79	0600038000200010001
80	0600038000200011001
81	0600058000200004001
82	0600059000200003002
83	0600038000200040000
84	0600058000200006000
85	0600058000200010025
86	0600059000100003002
87	0600037000200006000
88	0600037000200008003
89	0600037000300001000
90	0600053000200011001
91	0600059000200003008
92	0600059000200003012
93	0600038000200035000

Site 171 Wading River, NY
Wildwood State Park

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Site 173 Hither Hills State Park East Hampton, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

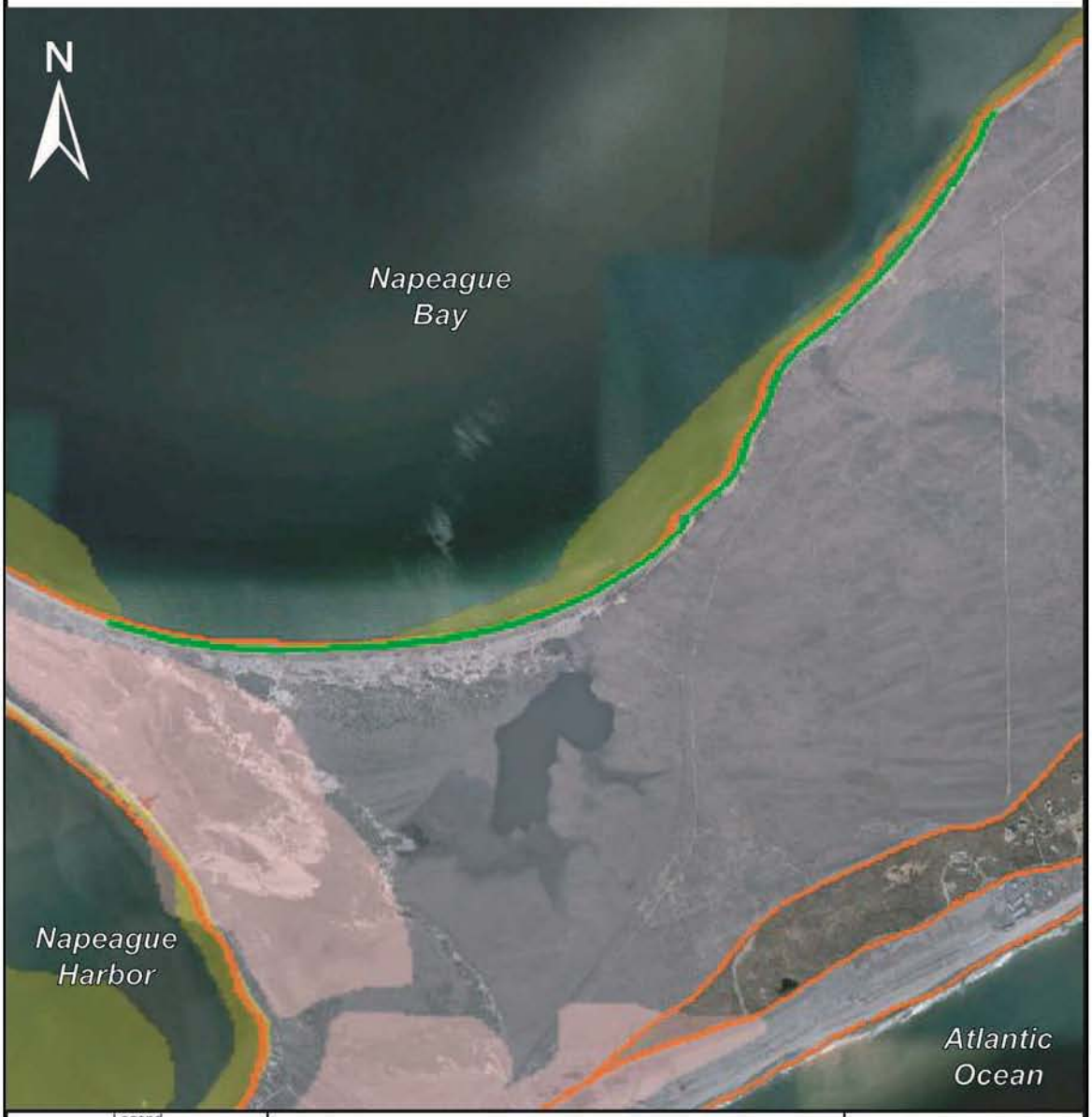
0 7000
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_173-2.ai

Site 173 Hither Hills State Park East Hampton, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Area)
- Nourishment Area

0 6020
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_173-3.ai

Site 173 Hither Hills State Park

East Hampton, NY

Site Address	Old Montauk Hwy., Montauk, NY
General Description	State Park located on the south fork of Long Island. The park has property on both sides of Montauk Hwy. The beach front property facing the Atlantic Ocean is run as a campground; the property north of the hwy has frontage on Napeague Bay and Napeague Harbor. The north facing property is extensive and is maintained as natural dunes, beaches, and woodlands for recreational purposes. Inventory only considers north facing property.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	PC – Parks and conservation
Surrounding Land Use	Residential properties surround the park to the southwest and south. Open space surrounds the park to the east.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of the site; additional freshwater wetlands mapped in the western part of the site north of Old Montauk Hwy.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand
Nourishment Length	13,580 ft
Design Berm Width	100 ft
Capacity	319,600 cy
Site Access	Land – Montauk Hwy to gravel access road to Napeague Bay Water – Napeague Bay
Staging Area	Staging areas for equipment not currently available; access to beaches along Napeague Bay via a one-lane natural surface road. Additional staging would need to be developed for equipment.
Additional Considerations	Shoreline along Napeague Harbor not considered for beach nourishment due to concerns with navigation. Extensive coastal dunes and narrow beach along the Napeague Harbor shoreline; dunes are vegetated with beach grass and woody species. Eastern end of the Napeague Harbor shoreline transitions into an eroding coastal bluff. Land access to the nourishment area on the north side of the site is via a long and narrow natural surface road. Possible fish/shellfish grants offshore of the beach.

Site 173 Hither Hills State Park
East Hampton, NY

Date: July 13, 2010

Direction: Northeast

Description:

Beach profile facing Napeague Bay showing wide coastal dunes and eroding coastal bluffs in the background.

Date: July 13, 2010

Direction: West

Description:

Beach profile facing Napeague Bay showing wide coastal dunes vegetated with beach grass.

Site 173 Hither Hills State Park
East Hampton, NY

Date: July 13, 2010

Direction: South

Description:

Coastal dunes landward of the beach vegetated with beach grass (Napeague Bay side).

Date: July 13, 2010

Direction: South

Description:

Napeague Harbor shoreline showing eroding dunes and narrow coastal beach.

Parcel	DSBL
1	0300026000100003000
2	0300043000100001000
3	0300086000200002000
4	0300086000200003000
5	0300110000100003001
6	0300110000100003002
7	0300110000100005002
8	0300110000100008000
9	0300110000200001000
10	0300026000100001002
11	0300110000100001000
12	0300110000100011000

Site 173 East Hampton, NY
Hither Hills State Park


Site 177 Shadmoor State Park
East Hampton, NY
N
27
Surf Drive
Surf Dr Ave
Atlantic Ocean
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
0
1000
Feet
Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_177-2.ai

Site 177 Shadmoor State Park East Hampton, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 838
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_177-3.ai

Site 177 Shadmoor State Park

East Hampton, NY

Site Address	Montauk Hwy., Montauk, NY
General Description	State Park located on the south fork of Long Island. The site faces south to the Atlantic Ocean and contains steeply sloping/eroding coastal bluffs fronted by a gently sloping beach.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	PC Parks and conservation
Surrounding Land Use	Residential properties surround the property.
Wetlands	Yes. Mapped freshwater wetlands in upland areas of the site landward of the coastal bluff.
State and Federally Listed Species Habitat	Yes. Mapped habitat in upland and coastal bluff areas; beach is not mapped habitat.
Sediment Type	Well sorted medium-grained sand
Nourishment Length	1,400 ft
Design Berm Width	100 ft
Capacity	20,100 cy
Site Access	Land – Montauk Hwy. to park access road Water – Atlantic Ocean
Staging Area	Staging areas for equipment not currently available; access to upland areas of the park is via a one-lane natural surface road. Additional staging would need to be developed for equipment.
Additional Considerations	Unstable eroding coastal bluffs, approximately 60 ft high along entire ocean shoreline. Eroding bluffs indicate a high energy setting not optimum for beach nourishment. Cultural resources present.

Site 177 Shadmoor State Park
East Hampton, NY

Date: July 13, 2010

Direction: East

Description:

Eroding coastal bluff and gently sloping beach.

Date: July 13, 2010

Direction: West

Description:

Eroding coastal bluff with adjacent beach, showing storm damage to access stairway.

Site 177 Shadmoor State Park
East Hampton, NY

Date: July 13, 2010

Direction: East

Description:

Upland area along top of coastal bluff.

Date: July 13, 2010

Direction: North

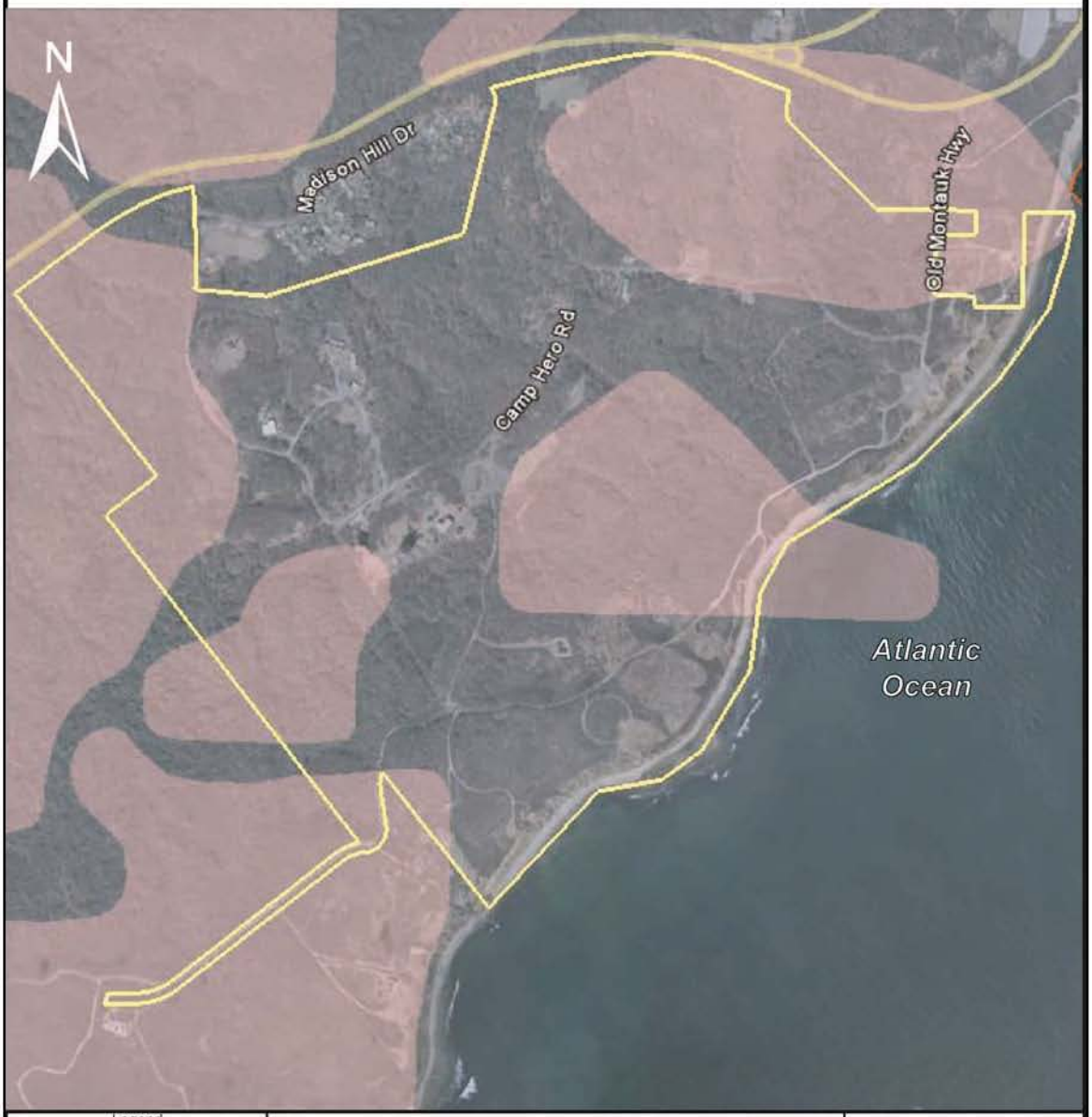
Description:

Upland topography and vegetation landward of the coastal bluff.

Parcel	DSBL
1	0300028000900002000
2	0300029000100018003
3	0300029000100018005
4	0300029000100018007
5	0300051000300001000
6	0300051000300005000
7	0300051000300006000
8	0300051000300009000
9	0300053000100006001
10	0300029000100018013
11	0300051000400019000
12	0300051000300007000
13	0300029000100018006
14	0300029000100018008
15	0300051000300008000
16	0300029000100018011

Site 177 East Hampton, NY
Shadmoor State Park

Site 178 Camp Hero State Park East Hampton, NY



Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 1000 2000 3000
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_178-2.ai

Site 178 Camp Hero State Park East Hampton, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 1686
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_178-3.ai

Site 178 Camp Hero State Park

East Hampton, NY

Site Address	Old Montauk Hwy., Montauk, NY
General Description	State Park located at the southeastern end of the south fork of Long Island. The site faces south to the Atlantic Ocean and contains steeply sloping/eroding coastal bluffs fronted by cobble beaches.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	PC Parks and conservation
Surrounding Land Use	The site is surrounded by park lands and open space with walking trails.
Wetlands	Yes. Mapped wetlands are located in the upland landward of the bluff crest.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Cobbles
Nourishment Length	1,330 ft (eastern); 1,170 ft (western)
Design Berm Width	100 ft (eastern and western)
Capacity	76,900 cy
Site Access	Land – Montauk Point State Parkway to Old Montauk Hwy. Water – Atlantic Ocean
Staging Area	Potential staging area is limited to the natural surface parking lot at the bluff overview site. Potential access to the beach via a one lane road west of the parking lot.
Additional Considerations	Unstable eroding coastal bluffs, approximately 60 ft high along most of the shoreline. Bluff elevation lowers to the west where beach access may be possible. Eroding bluffs and cobble beach indicate a high energy setting not optimum for beach nourishment. Cultural resources present.

Site 178 Camp Hero State Park
East Hampton, NY

Date: July 13, 2010

Direction: East

Description:

Eroding coastal bluffs and hoodoos along the south facing shoreline.

Date: July 13, 2010

Direction: West

Description:

Cobble beaches and eroding coastal bluffs along the western shoreline.

Site 178 Camp Hero State Park
East Hampton, NY

Date: July 13, 2010

Direction: North

Description:

Eroding coastal bluffs and cobble beach near western end of park showing potential beach access route for equipment.

Date: July 13, 2010

Direction: East

Description:

Potential staging for trucks and grading equipment in parking lot at bluff overview site.

Parcel	DSBL
1	0300015000100012000
2	0300015000100013010
3	0300015000100013011
4	0300015000100014000
5	0300022000100001001
6	0300022000100001002
7	0300022000100001003
8	0300015000100011000
9	0300015010100029000
10	0300015000100004000
11	0300015010100007000
12	0300015010100028000
13	0300015010100030000
14	0300015010100006000

Site 178 East Hampton, NY

Camp Hero State Park

Site 179 Montauk Point State Park East Hampton, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

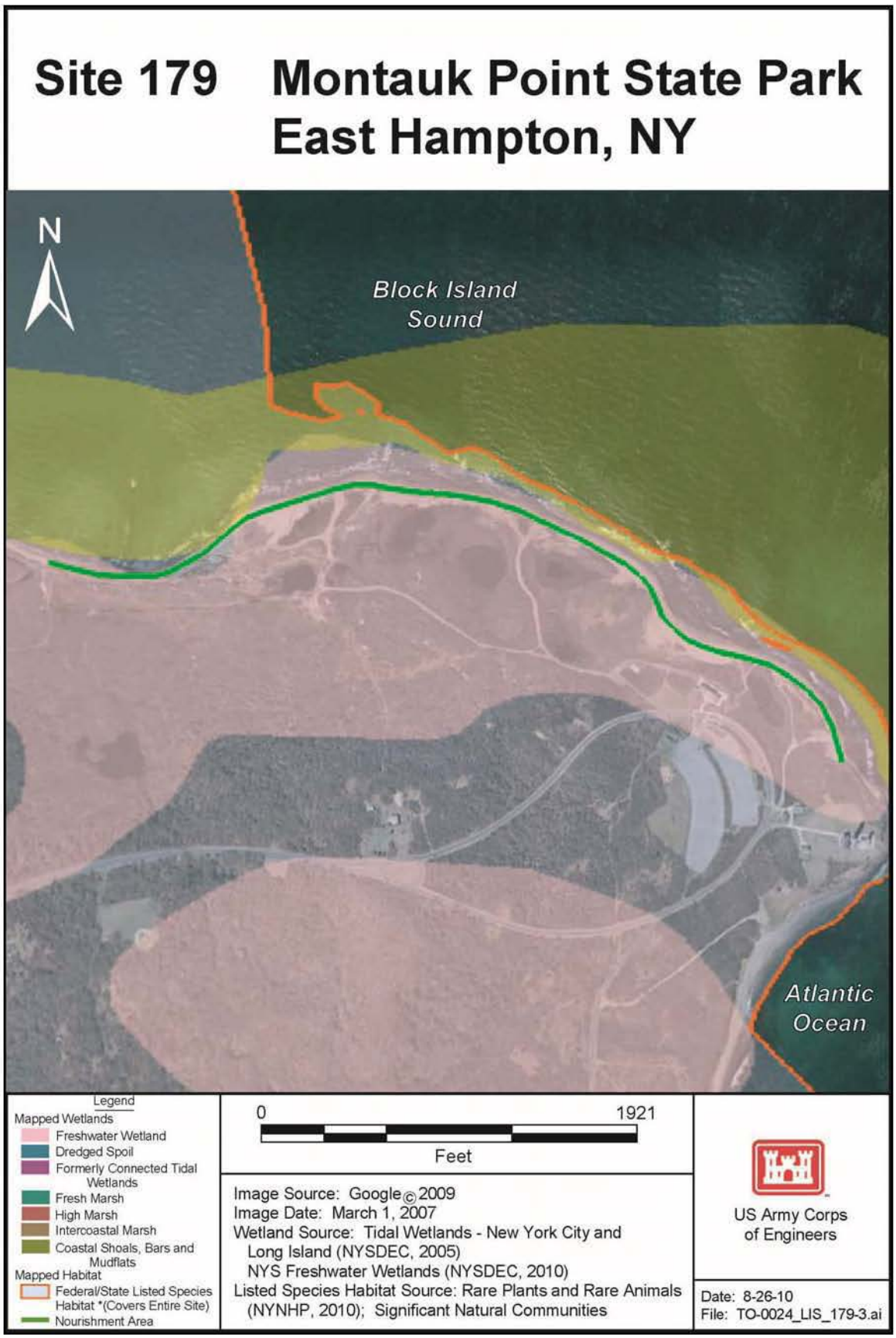
Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 2000
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_179-2.ai


Site 179 Montauk Point State Park
East Hampton, NY
N
Block Island Sound
Atlantic Ocean
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat *(Covers Entire Site)
Nourishment Area
0
1921
Feet
Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-26-10
File: TO-0024_LIS_179-3.ai

Site 179 Montauk Point State Park

East Hampton, NY

Site Address	Montauk Point State Pkwy., Montauk, NY
General Description	State Park located at the northeastern end of the south fork of Long Island. The site faces north to Block Island Sound and contains steeply sloping/eroding coastal bluffs fronted by cobble beaches.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	PC Parks and conservation
Surrounding Land Use	The site is surrounded by park lands and open space with walking trails.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of beach; additional mapped wetlands are located in the upland landward of the beach and on the dune surrounding the bluff crest.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Cobbles with intermixed sand
Nourishment Length	4,780 ft
Design Berm Width	100 ft
Capacity	147,300 cy
Site Access	Land – Montauk Point State Parkway to N Rd. Water – Block Island Sound
Staging Area	Potential staging area is limited to the asphalt parking lot west of the lighthouse and visitor center. Staging area has catch basins, but is set back significantly from the bluff top and beach. Potential access to the beach via one lane sandy paths north of the gravelly N Road and other park maintenance roads.
Additional Considerations	Partially vegetated but mostly eroding coastal bluffs, approximately 60 ft high along most of the shoreline. Bluff elevation lowers to the northwest of lighthouse, in Scott's Hole, where pocket beach is wider (20 ft to 50 ft) than other beaches in vicinity. Terracing and rip rap around Montauk Point Lighthouse indicate a high energy setting not optimum for beach nourishment. Cultural resources present.

Site 179 Montauk Point State Park
East Hampton, NY

Date: July 13, 2010

Direction: East

Description:

Cobble beach and eroding coastal dune along the north facing shoreline.

Date: July 13, 2010

Direction: West

Description:

Cobble beach and eroding coastal bluffs along the northern shoreline.

Site 179 Montauk Point State Park
East Hampton, NY

Date: July 13, 2010

Direction: South

Description:

Dune with adjacent wetlands near Rush Pond in north-central portion of park showing potential beach access route for equipment.

Date: July 13, 2010

Direction: South

Description:

Sea wall, toe wall and terracing at Montauk Point Lighthouse. This is a high energy area not suitable for beach nourishment.

Parcel	DSBL
1	0300015000100013009
2	0300015000100007000
3	0300015000100008000
4	0300015000100006000
5	0300015000100009000
6	0300015000100005000
7	0300015000100010000
8	0300015000100012000
9	0300015000100013010
10	0300015000100013011
11	0300015000100011000
12	0300015000100004000

Site 179 East Hampton, NY
Montauk Point State Park

Site 170 Sunken Meadow State Park Kings Park, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

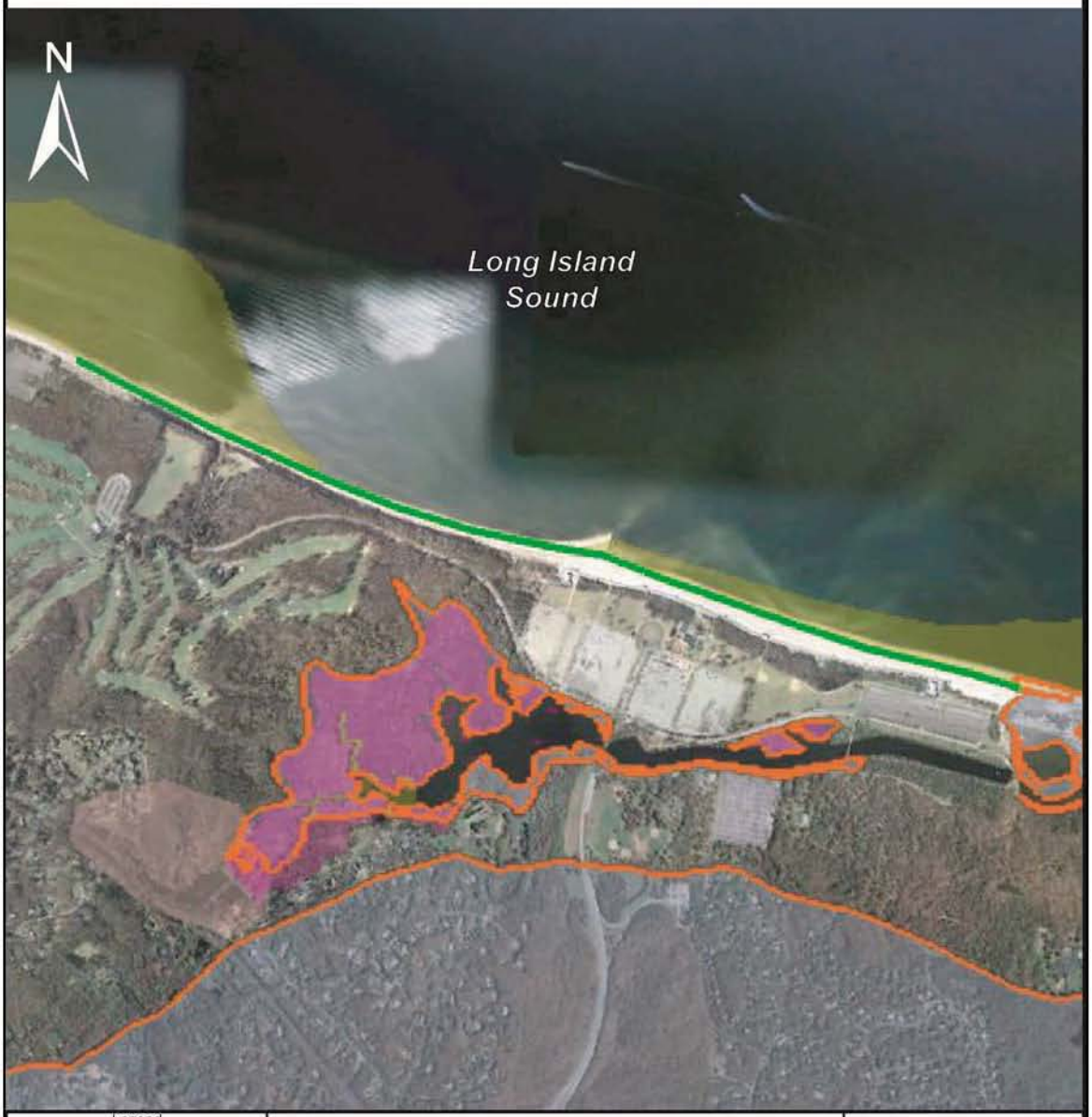
0 2000 4000 6000
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_170-2.ai

Site 170 Sunken Meadow State Park Kings Park, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 1640 3280 4920
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_170-3.ai

Site 170 Sunken Meadow State Park

Kings Park, NY

Site Address	Sunken Meadow Pkwy., Kings Park, NY
General Description	State Park located on the north shore of Long Island just west of Stony Brook. The park is a large parcel that contains a beach, boardwalk, golf course, recreational fields, picnic areas, and walking trails.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	R-43 Residential 1-acre
Surrounding Land Use	Residential properties and some open space surround the park on all sides.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of the beach; additional wetlands mapped around the pond near the center of the site and at the east end of the beach adjacent to the Nissequogue River.
State and Federally Listed Species Habitat	Yes. Mapped habitat around the pond near the center of the site and at the east end of the beach adjacent to the Nissequogue River.
Sediment Type	Moderately well sorted medium to coarse-grained sand
Nourishment Length	9,760 ft
Design Berm Width	100 ft
Capacity	160,600 cy
Site Access	Land – Sunken Meadow Pkwy to beach parking lot Water – LIS (Smithtown Bay)
Staging Area	Potential staging area in paved parking lot landward of beach; access for equipment directly from parking area to beach beyond eastern end of the boardwalk; potential access through dunes at western end of boardwalk.
Additional Considerations	A single stone groin is located on the beach near the western end of the boardwalk; dominant sediment transport is likely from west to east. Elevated boardwalk located between the beach and dune/parking area; the boardwalk is approx. 6 feet above the level of the beach; wooden ramps provide access down to the beach. Natural dune areas are located at the east and west ends of the beach beyond the boardwalk; to the west the dunes transition into an eroding coastal bluff. The eastern end of the beach terminates in a barrier beach which forms the entrance to the Nissequogue River. No nourishment calculated for this area. Cultural resources present.

Site 170 Sunken Meadow State Park
Kings Park, NY

Date: July 15, 2010

Direction: Southeast

Description:

Beach profile showing wide gently sloping beach with elevated boardwalk at landward edge of beach.

Date: July 15, 2010

Direction: Northwest

Description:

Beach profile showing stone groin with eroding coastal bluff in the background.

Site 170 Sunken Meadow State Park
Kings Park, NY

Date: July 15, 2010

Direction: South

Description:

Elevated boardwalk at the landward edge of the beach showing typical beach access ramp.

Date: July 15, 2010

Direction: South

Description:

Possible access path for equipment from parking area, across boardwalk, to beach.

Site 170 Kings Park, NY

Sunken Meadow State Park

Site 180 Orient Beach State Park
Orient, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 7000
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_180-2.ai

Site 180 Orient Beach State Park Orient, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 4188
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_180-3.ai

Site 180 Orient Beach State Park

Orient, NY

Site Address	State Parkway, Orient, NY
General Description	State Park located on Gardiner's Bay at the eastern end of the north fork of Long Island.
Ownership/POC	State of New York Scott Fish, NY Office of Parks, Recreation, and Historic Preservation (518)-474-0456
Zoning	R-400 Residential low density
Surrounding Land Use	Agricultural/residential/wetlands on parcels north of Long Beach Bay; commercial marina/ferry service on abutting parcels to northeast.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of beach; additional mapped wetlands along north side of barrier beach facing Long Beach Bay.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site; shorebird enclosures in dunes at east end of main beach.
Sediment Type	Moderately sorted medium-grained sand with some gravel and shells
Nourishment Length	8,360 ft
Design Berm Width	100 ft
Capacity	119,900 cy
Site Access	Land – State Parkway Water – Gardiners Bay (south side); Long Beach Bay (north side)
Staging Area	Potential staging area in paved parking lot landward of main beach; access for equipment across paved walking path and low lying dunes; large trees present in certain places between walking path and beach. Access for equipment to northern beach across causeway and low lying dunes vegetated with shrubs.
Additional Considerations	Northern section of beach between entrance gate and main bathing beach contains a stone revetment and a series of short stone groins; this area has recently experienced significant erosion which threatens the access road; nourishment sand has been trucked to this area historically. Sediment transport is from northeast to southwest; sediment supply to the site from the northeast is limited. Cultural resources present.

Site 180 Orient Beach State Park
Orient, NY

Date: July 12, 2010

Direction: West

Description:

Beach profile showing primary bathing beach area.

Date: July 12, 2010

Direction: Southwest

Description:

Beach profile showing northern beach area along entrance road with piles of sand trucked in for erosion control.

Site 180 Orient Beach State Park
Orient, NY

Date: July 12, 2010

Direction: East

Description:

Area of low lying coastal dunes east of the main bathing beach showing enclosures for nesting shorebirds.

Date: July 12, 2010

Direction: South

Description:

Potential staging for trucks and grading equipment in parking lot at back of main bathing beach.

Parcel	DSBL
1	1000015000800014002
2	1000015000900008001
3	1000015000800026007
4	1000020000300011007
5	1000020000300014004
6	1000015000800014003
7	1000015000500024030
8	1000015000800026008
9	1000020000300012002
10	1000015000800024000

Site 180 Orient, NY

Orient Beach State Park

Site 445 Jamesport State Park Riverhead, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 2500
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_445-2.ai

Site 445 Jamesport State Park Riverhead, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 2665
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_445-3.ai

Site 445 Jamesport State Park

Riverhead, NY

Site Address	Sound Ave., Riverhead, NY
General Description	State Park with steep bluff. The parcel includes a large upland area currently not accessible to the public, but scheduled for development into a park and recreation area (Hallock State Park Preserve).
Ownership/POC	State of New York John Sadonno, NY Office of Parks, Recreation, and Historic Preservation (631) 321-3540
Zoning	RA-80 Residential
Surrounding Land Use	Park/open space on larger parcel behind beach; agricultural, residential on abutting parcels.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat on beach and upland area of parcel.
Sediment Type	Medium to coarse-grained sand
Nourishment Length	5,800 ft
Design Berm Width	100 ft
Capacity	120,000 cy
Site Access	Land – Sound Ave. Water – LIS just west of Mattituck Inlet
Staging Area	None at present. Would likely require barge access as upland bluff is approximately 200 ft high and there is no direct access to beach at present.
Additional Considerations	The New York Parks, Recreation, and Historic Preservation program has a Master Plan (in review) for Jamesport State Park (proposed name for the site is "Hallock State Park"). The goal for the park is to strike a balance between recreation and the protection and interpretation of the natural and cultural resources within the park. The Draft Master Plan includes providing public access to the ocean beach at LIS. However, the Plan indicates bluffs will be managed 'naturally' to allow erosion and natural restoration of sand, so beach nourishment may not be permitted at this site. Cultural resources present.

Site 445 Jamesport State Park
Riverhead, NY

Date: July 12, 2010

Direction: Northwest

Description:

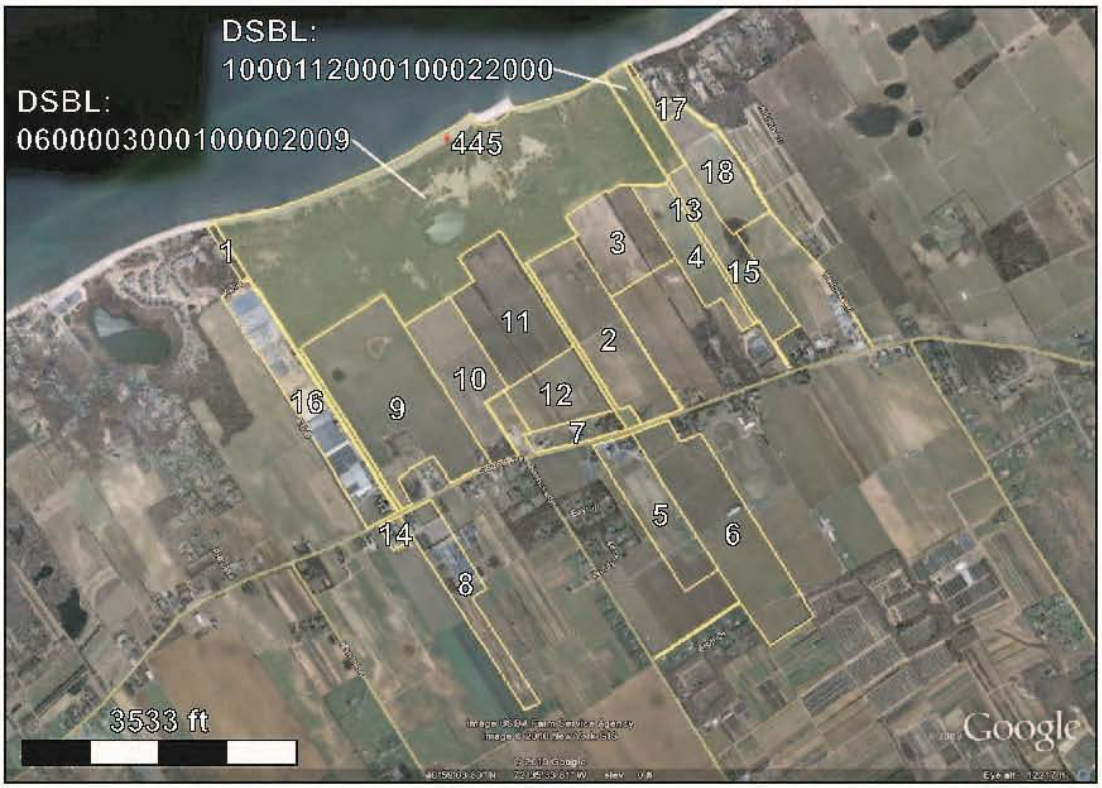
Jamesport State Park beach area from atop the bluff.

Date: July 12, 2010

Direction: West

Description:

Access to site currently restricted. Plans are in place to create a public park with access to the beach.



Parcel	DSBL
1	0600002000200003001
2	0600003000100002010
3	0600003000100002011
4	0600003000100002013
5	0600009000100010000
6	0600009000100011007
7	0600009000100017001
8	0600009000200009000
9	0600009000300001000
10	0600009000300003000
11	0600009000300004000
12	0600009000300005000
13	0600003000100002014
14	0600009000200010002
15	1000120000100001003
16	0600009000200011000
17	1000112000100007004
18	1000112000100007005

Site 445 Riverhead, NY
Jamesport State Park

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Site 446 Theodore Roosevelt County Park East Hampton, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 5000
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_446-2.ai


Site 446 Theodore Roosevelt County Park East Hampton, NY
N
Block Island Sound
Lake Montauk
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat *(Covers Entire Site)
Nourishment Area
0
4640
Feet
Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-27-10
File: TO-0024_LIS_446-3.ai

Site 446 Theodore Roosevelt County Park

East Hampton, NY

Site Address	East Lake Dr. (beach access)/Montauk Hwy., Montauk, NY
General Description	County Beach located on the south fork of Long Island, east of Lake Montauk Harbor inlet. The beach has two primary shoreline areas: the eastern beach is contiguous with Gin Beach (municipal) and is used for self contained camping; the western beach is a natural area not accessible by vehicles.
Ownership/POC	Suffolk County Government, NY Dept. of Parks, Recreation & Conservation
Zoning	PC Parks and conservation
Surrounding Land Use	Commercial marinas and restaurants/residential properties to the west; State park to the south.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of the site; additional wetlands mapped near the interior of the property.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium to fine-grained sand
Nourishment Length	Two separate areas for beach nourishment: Eastern side – 2,830 ft Western side – 9,040 ft
Design Berm Width	Two separate areas for beach nourishment: Eastern side – 100 ft Western side – 200 ft
Capacity	427,400 cy
Site Access	Land – East Lake Dr. to park entrance Water – Block Island Sound
Staging Area	Staging areas for equipment not currently available; access road to western beach and campground area is an ORV trail; all other areas of the park adjacent to the beaches are in a natural condition.
Additional Considerations	Western beach area is used by self contained campers and other ORVs; the beach is backed by a wide coastal dune system (primary and secondary) vegetated with beach grass and woody species. The Eastern beach is remote; it contains a narrow, cobble beach with an eroding costal bluff. Both beaches have experienced erosion in recent years. Cultural resources present.

Site 446 Theodore Roosevelt County Park
East Hampton, NY

Date: July 13, 2010

Direction: East

Description:

Beach profile looking to the east showing the campground area (western beach).

Date: July 13, 2010

Direction: West

Description:

Beach profile looking to the west showing the wide coastal dune vegetated with beach grass (western beach).

Site 446 Theodore Roosevelt County Park
East Hampton, NY

Date: July 13, 2010

Direction: Southeast

Description:

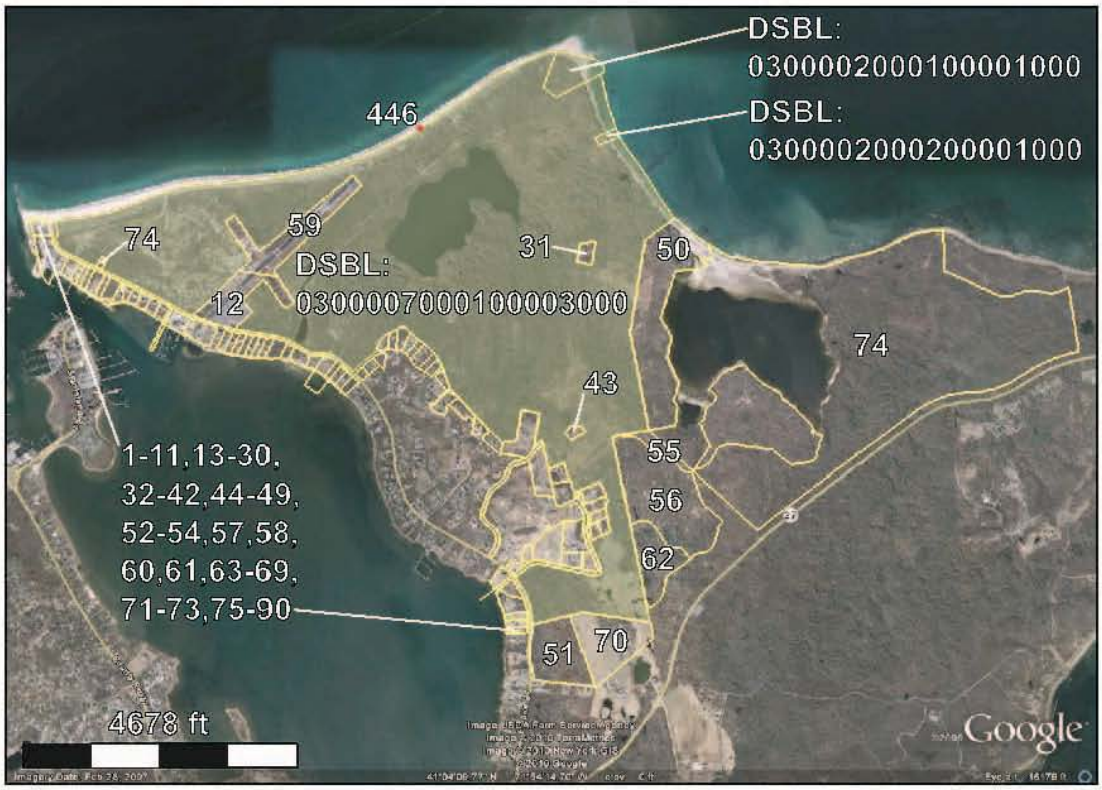
Upper beach face and extensive coastal dune vegetated with beach grass (western beach).

Date: July 13, 2010

Direction: Southwest

Description:

Extensive coastal dune vegetated with beach grass (western beach).



*Parcel numbers on next page

Site 446 East Hampton, NY

Theodore Roosevelt County Park

Site 343 Clinton Town Beach
Clinton, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_343-2.ai

Site 343 Clinton Town Beach
Clinton, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
Nourishment Area

0 584
Feet

Image Source: Google© 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_343-3.ai

Site 343 Clinton Town Beach

Clinton, CT

Site Address	Waterside Ln., Clinton, CT
General Description	Municipal Beach on a barrier beach with playground and recreational area located on Clinton Harbor.
Ownership/POC	Town of Clinton, CT R. Potter, Parks and Recreation (860) 669-6901
Zoning	R-10 Residential
Surrounding Land Use	Residential with small commercial marina to northwest and open space (Great Hammock Salt Marsh) to east.
Wetlands	Yes. Salt marshes mapped at northern end of park west of bridge, southeastern corner of park, and to the east along the adjacent Hammock River. Unmapped fringing marsh was observed along the western shore, except at the recreational beach area.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted medium to coarse-grained sand with gravel
Nourishment Length	490 ft
Design Berm Width	50 ft
Capacity	1,200 cy
Site Access	Land – Waterside Ln., with one-lane wooden bridge over tidal creek. Water – LIS; Clinton Harbor has navigation channel to marina opposite parcel.
Staging Area	Potential staging area in two asphalt parking lots landward of beach, separated by playground.
Additional Considerations	Recreational beach contains two groins. North of the northern groin, a fringing marsh fronts a narrow beach which transitions into a low-lying dune. Between the two groins, the beach has a 75 ft berm level with the parking lot and playground, and a gentle slope to the water. South of the southern groin, the beach narrows and slopes moderately to the water. South of the beach, a fringing marsh fronts a small dune and a grassy upland area with walking trails and a small pavilion. Eastern border of parcel has a tree lined bank overlooking the Hammock River tidal channel and salt marsh. No nourishment calculated for areas of fringing marsh.

Site 343 Clinton Town Beach
Clinton, CT

Date: July 15, 2010

Direction: South

Description:

Beach and southern groin.

Date: July 15, 2010

Direction: North

Description:

Beach and northern groin.

Site 343 Clinton Town Beach
Clinton, CT

Date: July 15, 2010

Direction: North

Description:

Fringing marsh, beach and dune at northern end of park.

Date: July 15, 2010

Direction: South

Description:

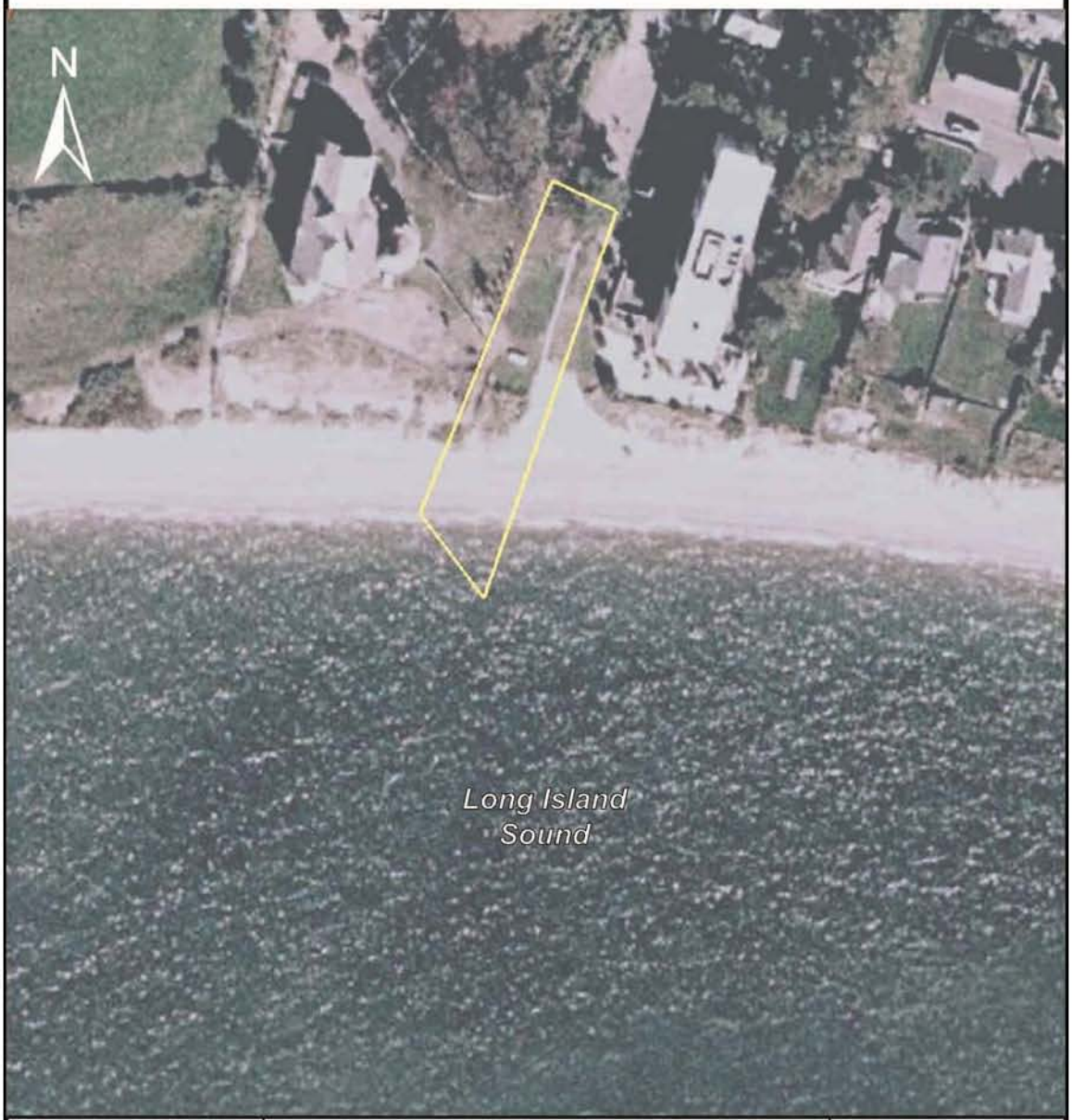
Bridge over outlet of Hammock River.

Parcel	MBL
1	57/66/33
2	57/66/34
3	57/66/35
4	57/66/36
5	57/66/32
6	57/66/30
7	69/66/25
8	69/66/21

Site 343 Clinton, CT

Clinton Town Beach

Site 474 South Pine Creek Beach Fairfield, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 250
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-10-10
File: TO-0024_LIS_474-2.ai

Site 474 South Pine Creek Beach Fairfield, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
Nourishment Area

0 38 76 114
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_474-3.ai

Site 474 South Pine Creek Beach
Fairfield, CT

Site Address	1424 South Pine Creek Rd., Fairfield, CT
General Description	Very small Municipal Beach at the end of a small road, just east of Southport Harbor entrance. Private beaches on either side of this small public beach.
Ownership/POC	Town of Fairfield, CT Richard White, Director of Public Works (203) 256-3010
Zoning	Beach District
Surrounding Land Use	Residential
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand
Nourishment Length	80 ft
Design Berm Width	8 ft
Capacity	100 cy
Site Access	Land – South Pine Creek Rd. Water - LIS
Staging Area	Very small parking area (for 3-4 cars) behind beach at end of South Pine Creek Rd. Access to beach is via small path from road. Access for trucks and equipment is limited.
Additional Considerations	Berm slopes gradually to tidal flat exposed at low water. Private parcels on both sides of this small town beach. Tidal flat and vegetated dune on site. Access for trucks and equipment limited. Staging area is small and separated from beach.

Site 474 South Pine Creek Beach
Fairfield, CT

Date: June 22, 2010

Direction: West

Description:

Beach profile looking east.

Date: June 22, 2010

Direction: Northwest

Description:

Vegetated dune at west side of beach.

Site 474 South Pine Creek Beach
Fairfield, CT

Date: June 22, 2010

Direction: North

Description:

Access to beach via walking path.

Date: June 22, 2010

Direction: South

Description:

Staging could be challenging in this small parking area at dead end of neighborhood road.

Parcel	MBL
1	2380500000
2	238103F0000
3	238103G0000

Site 474 Fairfield, CT
South Pine Creek Beach


Site 339 Jacobs Beach
Guilford, CT
N
Seaside Ave
Guildford Point Dr
Rock Point Ln
Guilford Harbor
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0 250 500 750
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_339-2.ai

Site 339 Jacobs Beach
Guilford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 110 220 330
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_339-3.ai

Site 339 Jacobs Beach
Guilford, CT

Site Address	Seaside Ave., Guilford, CT
General Description	Municipal Beach, with playground and picnic facilities located north of Guilford Point in Guilford Harbor.
Ownership/POC	Town of Guilford, CT R. Maynard, Parks and Recreation (203) 453-8068
Zoning	R-3 Residential
Surrounding Land Use	Playground and playing fields landward of beach. Surrounding parcels are residential, with large wetland to the northeast.
Wetlands	Yes. None mapped on site; unmapped fringing marshes were noted at the southern and northeast corners of the parcel. Large salt marsh mapped north of parcel.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Moderately well-sorted medium-grained sand with crushed shells
Nourishment Length	450 ft
Design Berm Width	100 ft
Capacity	6,400 cy
Site Access	Land – Seaside Ave. Water – LIS, Guilford Harbor
Staging Area	Potential staging area in dressed gravel parking lot landward of beach.
Additional Considerations	Recreational beach area is flanked by residential stone seawall to southwest and large sand-tight groin to northeast. Jacobs Beach existing berm extends 75 feet from parking lot and crests at the base of the groin. There is a large salt marsh rimmed with P*hragmites* north of the park. Fringing marsh and rocky intertidal area seaward of seawall. Beach, fringing marsh, and dunes north of groin. No nourishment calculated for areas of fringing marsh. Cultural resources present.

Site 339 Jacobs Beach
Guilford, CT

Date: July 16, 2010

Direction: East

Description:

Groin at northeastern end of beach.

Date: July 16, 2010

Direction: Southwest

Description:

Beach and seawall.

Site 339 Jacobs Beach
Guilford, CT

Date: July 16, 2010

Direction: North

Description:

Potential staging area in parking lot landward of beach.

Date: July 16, 2010

Direction: North

Description:

Fringing wetland north of groin.

Parcel	MBL
1	029117
2	029120
3	029121
4	024001
5	024003
6	024004
7	024005
8	024010A
9	024009
10	0240081
11	0240087
12	024007

Site 339 Guilford, CT
Jacobs Beach

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Site 470 Chaffinch Island Park
Guilford, CT
N
Guilford Harbor
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0
1000
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_470-2.ai

Site 470 Chaffinch Island Park
Guilford, CT

Site Address	Chaffinch Island Rd., Guilford, CT
General Description	Municipal Park located just south of the West River in Guilford Harbor.
Ownership/POC	Town of Guilford, CT R. Maynard, Parks and Recreation (203) 453-8068
Zoning	R-6 Residential
Surrounding Land Use	Marina on West River north of site; residential parcels adjacent to site to west and south.
Wetlands	Yes. Extensive salt marsh mapped landward of the dune; fringing marsh mapped along edges of the dune, point, and upland park.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Fines (tidal flats)
Nourishment Length	Not considered viable.
Design Berm Width	See above
Capacity	n/a
Site Access	Land – Chaffinch Island Rd. Water – LIS, Guilford Harbor
Staging Area	Gravel road and small parking area on cul-de-sac at end of Chaffinch Island Rd. Access from parking lot to shore is restricted by salt marsh and rocky outcroppings.
Additional Considerations	Eastern edge of upland park has been armored with loose rip rap near mouth of West River. A small, narrow beach is seaward of the dune, but is surrounded by fringing marsh and tidal flats. The remainder of the site consists of rocky outcroppings and tidal flats. Tidal flats south of the park are open to shell fishing.

Site 470 Chaffinch Island Park
Guilford, CT

Date: July 16, 2010

Direction: East

Description:

Salt marsh and rock outcroppings at point south of West River.

Date: July 16, 2010

Direction: Southwest

Description:

Tidal flat, salt marsh and dune.

Site 470 Chaffinch Island Park
Guilford, CT

Date: July 16, 2010

Direction: Southwest

Description:

Dune and small barrier beach with fringing marsh.

Date: July 16, 2010

Direction: South

Description:

Rip rap along West River.

Parcel	MBL
1	023005
2	023006
3	023006A
4	017001
5	017003
6	017004
7	017005

Site 470 Guilford, CT
Chaffinch Island Park

Site 459 Fort Nathan Hale Park New Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_459-2.ai

Site 459 Fort Nathan Hale Park New Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 117 234 351
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_459-3.ai

Site 459 Fort Nathan Hale Park

New Haven, CT

Site Address	408 Townsend Ave., New Haven, CT
General Description	State Beach and Park area on the east side of New Haven Harbor. Beach area runs northeast-southwest. Parcel is adjacent to the US Marine Corps Reserve Station and has a large park area upland of the beach.
Ownership/POC	City of New Haven, CT Robert Levine, Parks Department (203) 946-8027
Zoning	RS2 General Single Family
Surrounding Land Use	Residential; US Marine Corps Reserve Center and US Coast Guard Station to north.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted medium grained sand to coarse sediment with gravel
Nourishment Length	630 ft
Design Berm Width	63 ft
Capacity	5,300 cy
Site Access	Land – Rt. 337 to Woodward Ave, a paved 2-lane road that runs through commercial and residential areas. Water – West side of New Haven Harbor entrance
Staging Area	Potential staging area in paved lot landward of beach.
Additional Considerations	Pier at northwest end of beach, near parcel border with US Marine Corps property. Pier has loosely placed rip-rap at base. There is a short rip-rap groin at the southwest end of the property. Sediment varies from medium grained sand to large pebbles and boulders. Southwest end of the beach has a cobble layer and grades to a rocky bluff to the southwest. Upper beach is at grade with sidewalk and parking area. The New Haven Harbor entrance channel is just offshore. Cultural resources present.

Site 459 Fort Nathan Hale Park
New Haven, CT

Date: June 25, 2010

Direction: Northeast

Description:

Beach profile looking northeast.

Date: June 25, 2010

Direction: Southwest

Description:

Beach profile looking southwest.

Site 459 Fort Nathan Hale Park
New Haven, CT

Date: June 25, 2010

Direction: Southwest

Description:

Small groin at southwest end of beach.

Date: June 25, 2010

Direction: South

Description:

Potential staging for trucks and grading equipment in lot at back of beach.

Parcel	MBL
1	046 0901 00200
2	044 0902 02301
3	045 0901 00200
4	045 0901 00300
5	045 0901 00400
6	045 0901 00500
7	045 0901 00600
8	045 0901 00700
9	045 0901 00800
10	045 0901 00900
11	045 0901 01000
12	045 0901 01100
13	045 0901 01200
14	045 0901 01300
15	045 0901 01400
16	030 0871 00200
17	044 0902 02100
18	028 0896 00100
19	028 0896 00200

Site 459 New Haven, CT
Fort Nathan Hale Park

Site 348 White Sands Beach
Old Lyme, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_348-2.ai

Site 348 White Sands Beach
Old Lyme, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 233
Feet

Image Source: Google© 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_348-3.ai

Site 348 White Sands Beach

Old Lyme, CT

Site Address	11 Seaside Ln., Old Lyme, CT
General Description	Municipal Beach on Long Island Sound, east of the mouth of the Connecticut River.
Ownership/POC	Town of Old Lyme, CT Don Bugbee, Director Parks and Recreation (860) 434-1605 ext. 235
Zoning	R10 Residential
Surrounding Land Use	Residential; recreational (association beaches on both sides)
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted fine sand
Nourishment Length	200 ft
Design Berm Width	100 ft
Capacity	1,700 cy
Site Access	Land - White Sands Beach Rd. Water – LIS
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Beach berm is currently at or above parking lot so berm would not need to be raised, unless building dunes. There is one very small vegetated dune at west end of beach. Stone groins on both sides of beach extend from start of berm out about 60 ft. Groins are above grade of berm. Sediment offset on sides of groins indicates sediment transport is east to west. Cultural resources present.

Site 348 White Sands Beach
Old Lyme, CT

Date: July 16, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 16, 2010

Direction: East

Description:

Beach profile looking east.

Site 348 White Sands Beach
Old Lyme, CT

Date: July 16, 2010

Direction: South

Description:

Stone groin at west side of beach showing sand offset.

Date: July 16, 2010

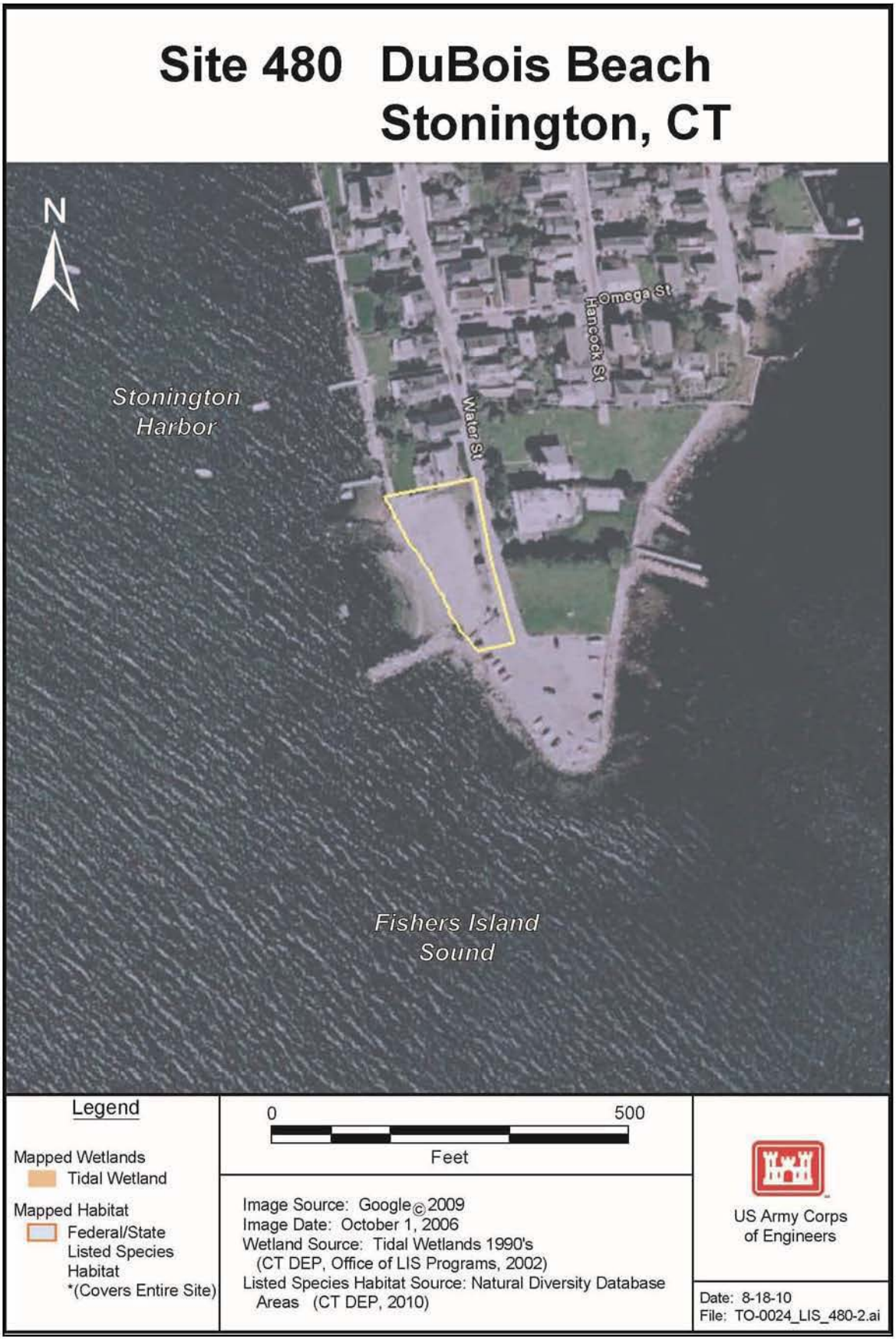
Direction: Southeast

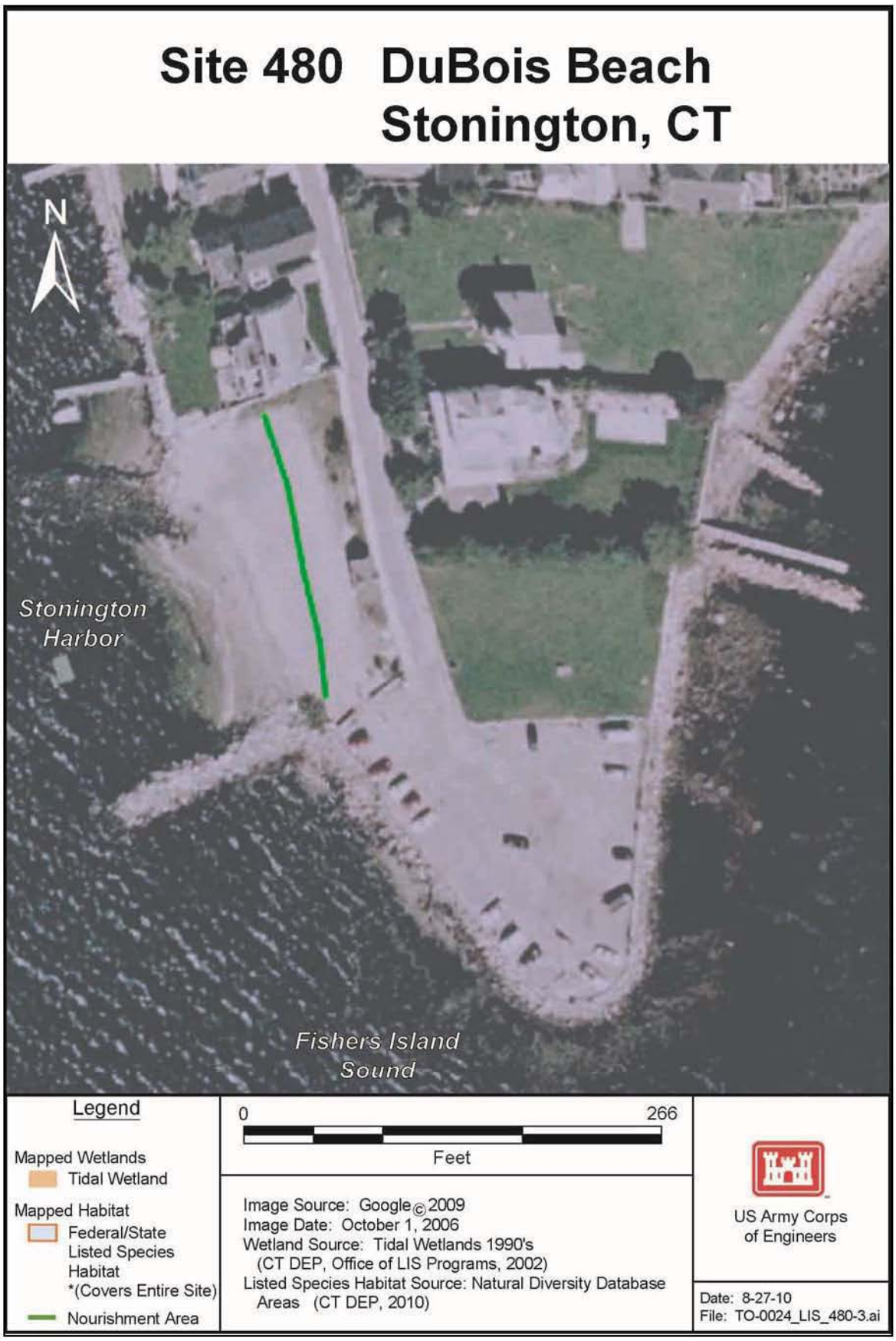
Description:

Potential staging area in lot at back of beach.

Parcel	MBL
1	69-65
2	69-64
3	69-63
4	69-118
5	69-120

Site 348 Old Lyme, CT
White Sands Beach


Site 480 DuBois Beach
Stonington, CT
N
Omega St
Hancock St
Water St
Stonington Harbor
Fishers Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0
500
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-18-10
File: TO-0024_LIS_480-2.ai


Site 480 DuBois Beach
Stonington, CT
N
Stonington Harbor
Fishers Island Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
Nourishment Area
0
266
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-27-10
File: TO-0024_LIS_480-3.ai

Site 480 Dubois Beach

Stonington, CT

Site Address	2 Water St., Stonington, CT
General Description	Small Municipal Beach on Stonington Harbor.
Ownership/POC	Town of Stonington, CT Stonington Village Improvement Association (SVIA) owner, contracts beach management to Stonington Community Center (860) 535-2476
Zoning	Residential
Surrounding Land Use	Residential.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium to fine-grained sand
Nourishment Length	180 ft
Design Berm Width	125 ft
Capacity	3,300 cy
Site Access	Land – Water St. (narrow road through residential neighborhood) Water – LIS
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Small neighborhood beach with stone groin at the southern end. Potential staging area in dirt/gravel lot behind beach. Beach was purchased and created in the 1950s by trucking in sand and building the groin. Storm-related erosion necessitates periodic beach nourishment. Access is through an iron gate approximately 10 ft wide (this would restrict access for trucks, heavy machinery). Cultural resources present.

Site 480 Dubois Beach
Stonington, CT

Date: July 15, 2010

Direction: North

Description:

Beach profile looking north.

Date: July 15, 2010

Direction: Southwest

Description:

View of beach and groin at south side from sidewalk/parking area.

Site 480 Dubois Beach
Stonington, CT

Date: July 15, 2010

Direction: West

Description:

Access to beach through gate. Restricted access for trucks and machinery.

Date: July 15, 2010

Direction: South

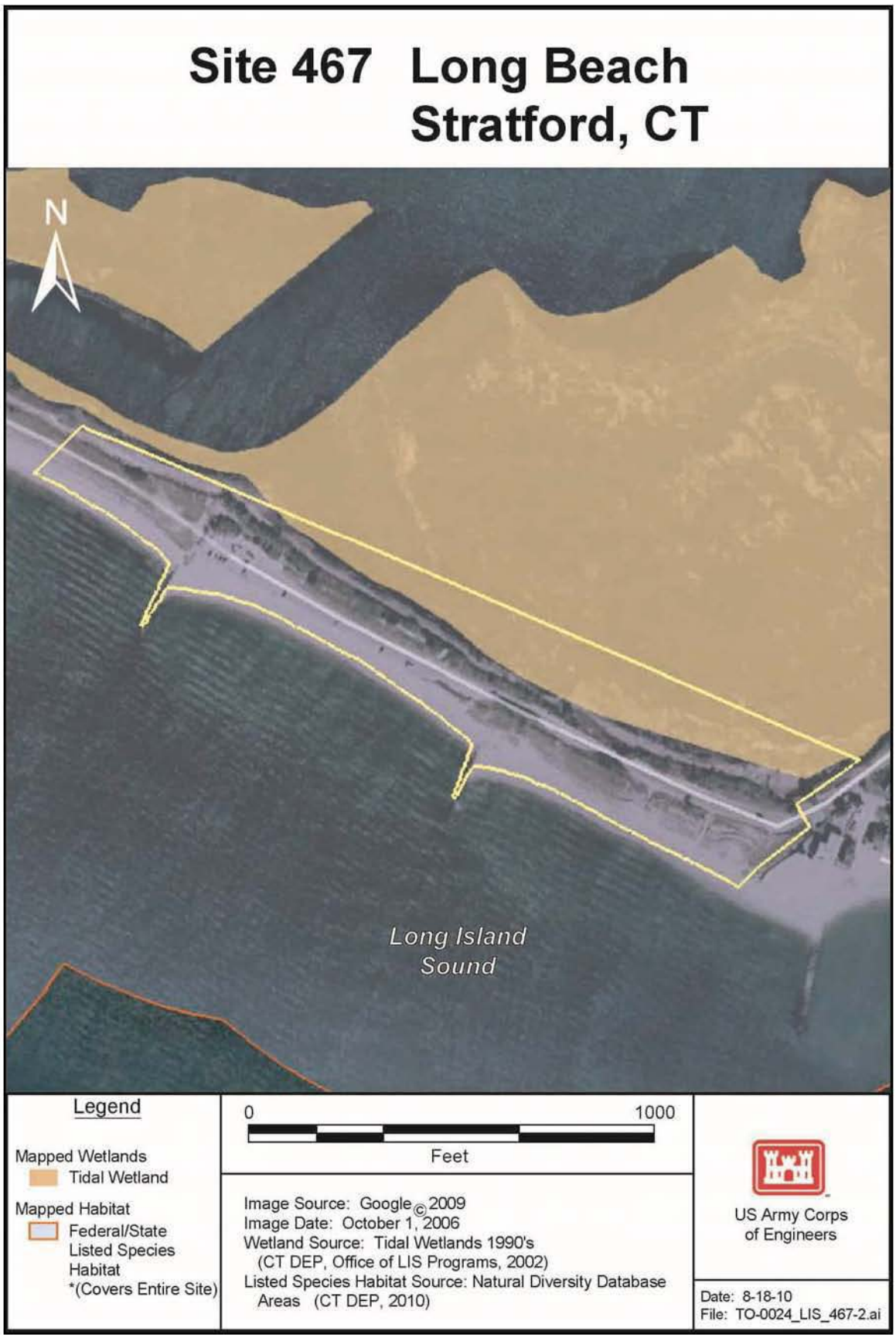
Description:

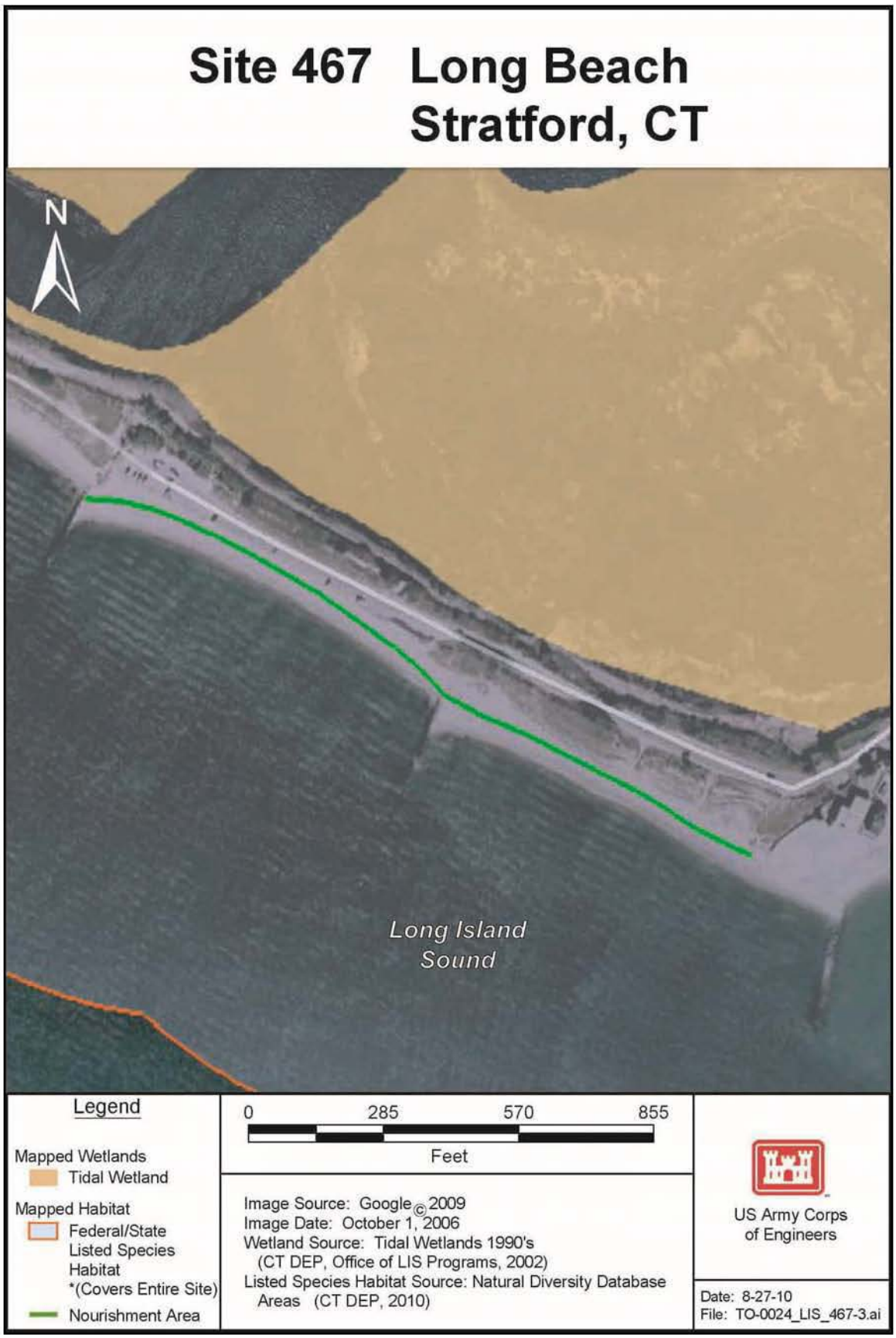
Potential staging area in lot behind beach in unpaved lot.

Parcel	MBL
1	102-6-3
2	102-5-14
3	102-5-15
4	102-5-16

Site 480 Stonington, CT

DuBoise Beach


Site 467 Long Beach
Stratford, CT
N
Long Island
Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
*(Covers Entire Site)
0
1000
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-18-10
File: TO-0024_LIS_467-2.ai


Site 467 Long Beach
Stratford, CT
N
Long Island
Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
*(Covers Entire Site)
Nourishment Area
0
285
570
855
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-27-10
File: TO-0024_LIS_467-3.ai

Site 467 Long Beach
Stratford, CT

Site Address	Lordship Blvd., Stratford, CT
General Description	Municipal Beach on the eastern end of a barrier beach between Long Island Sound and Lewis Gut, on the east side of Bridgeport Harbor.
Ownership/POC	Town of Stratford, CT Patricia Patusky, Recreation Department (203) 385-4052
Zoning	RC Resource Conservation District
Surrounding Land Use	Open space/wetland to north; park to west; industrial parcels on Bridgeport Harbor side; residential to east.
Wetlands	Yes. Mapped wetlands landward of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted medium-grained sand with shell hash
Nourishment length	1,620 ft
Design berm width	100 ft
Capacity	23,200 cy
Site Access	Land –Lordship Blvd. Water - LIS
Staging Area	Potential staging area in paved lot (approximately 30 ft wide), which runs the length of the beach.
Additional Considerations	Beach berm is narrower than other beaches in this area. Foreshore slopes down moderately steeply from berm. On east side of beach a wide dune lies between the beach and road. West end of the barrier beach is closed to the public, as USDOI is working on a barrier beach habitat restoration project. Restoration plans for the 35 acre parcel include dune and estuarine enhancement, as well as endangered shorebird habitat enhancement. Nourishment would not be done in the DOI restoration area, as sand is accreting here and restoration work is underway. Cultural resources present.

Site 467 Long Beach
Stratford, CT

Date: June 23, 2010

Direction: West

Description:

View of beach looking west.

Date: June 23, 2010

Direction: East

Description:

East end of beach with vegetated dune in background.

Site 467 Long Beach
Stratford, CT

Date: June 23, 2010

Direction: West

Description:

West end of parcel closed to public due to habitat restoration project.

Date: June 23, 2010

Direction: West

Description:

Staging area in paved lot at back of beach.

Parcel	MBL
1	1003010002
2	4003020001
3	4001050030

Site 467 Stratford, CT
Long Beach


Site 468 Russian Beach
Stratford, CT
N
Park Blvd
Long Island
Sound
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
*(Covers Entire Site)
0
250
500
750
Feet
Image Source: Google© 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-18-10
File: TO-0024_LIS_468-2.ai

Site 468 Russian Beach
Stratford, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 223 446 669
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-27-10
File: TO-0024_LIS_468-3.ai

Site 468 Russian Beach

Stratford, CT

Site Address	Beach Dr., Stratford, CT
General Description	Municipal Beach on Long Island Sound in Stratford, Connecticut.
Ownership/POC	Town of Stratford, CT Patricia Patusky, Recreation Department (203) 385-4052
Zoning	RC Resource Conservation District
Surrounding Land Use	Residential
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Cobble
Nourishment Length	1,350 ft
Design Berm Width	100 ft
Capacity	31,700 cy
Site Access	Land –Beach Dr. to walking path in dune. Water - LIS
Staging Area	No lot adjacent to beach and no parking along road. Vegetated dune lies between road and beach. Staging could be a challenge in this area.
Additional Considerations	Beach runs along a road with small park in upland area. No parking at beach, and access is through a small walking path through a dune. Rocky intertidal habitat noted below tide line.

Site 468 Russian Beach
Stratford, CT

Date: June 23, 2010

Direction: East

Description:

View of beach looking east.

Date: June 23, 2010

Direction: West

Description:

View of beach looking west.

Site 468 Russian Beach
Stratford, CT

Date: June 23, 2010

Direction: North

Description:

Vegetated dune at back of beach.

Date: June 23, 2010

Direction: South

Description:

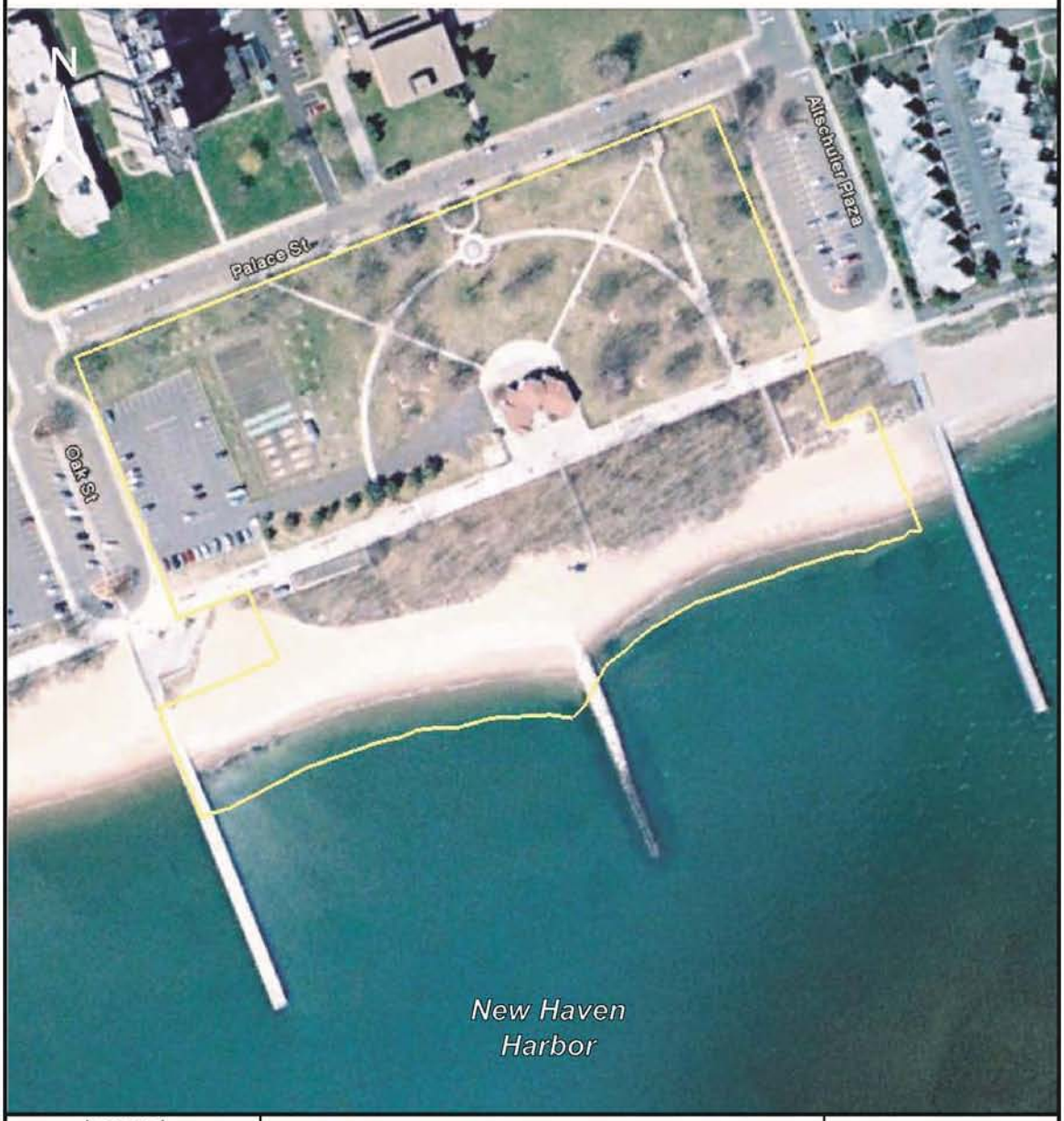
Foreshore of beach showing rocky intertidal.

Parcel	MBL
1	5001070001
2	5001070005
3	5001070006
4	5001070011
5	5001070007
6	5001070012
7	5001070008
8	5001070014
9	5001070015
10	5001070017
11	5001070019
12	4001090006
13	5001060001
14	4001090005
15	4001090004
16	4001090003
17	4001090002

Site 468 Stratford, CT

Russian Beach

Site 325 Altschuler Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

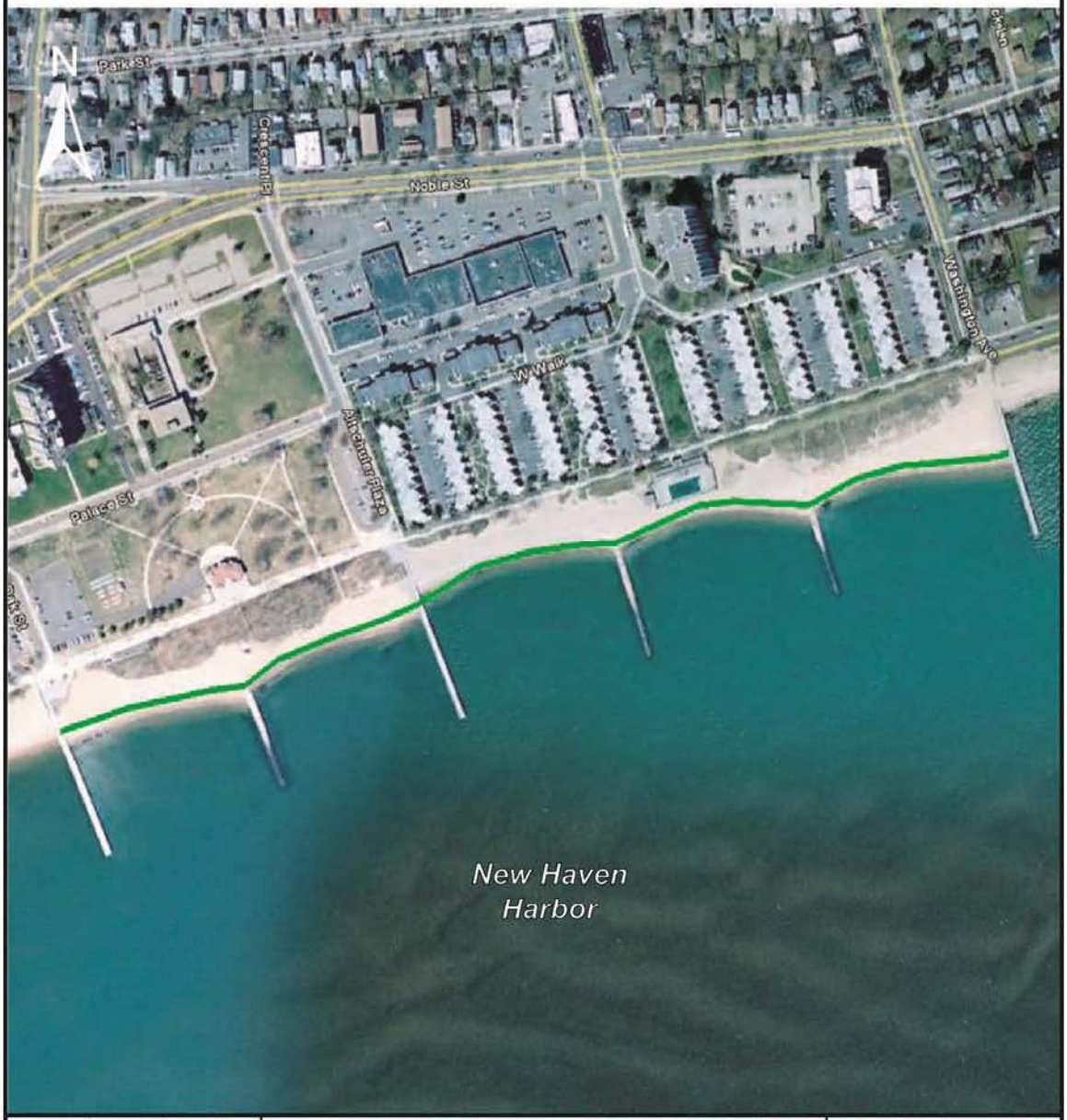
0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_325-2.ai

Site 325 Altschuler Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 1082
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_325-3.ai

Site 325 Altschuler Beach

West Haven, CT

Site Address	1 Palace St., West Haven, CT
General Description	Municipal Beach on Long Island Sound in West Haven.
Ownership/POC	City of West Haven, CT Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Recreational (bicycle/walking path along beach); mix of Commercial and Residential surrounding site.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Sediment Type	Well sorted medium grained sand
Nourishment Length	2,540 ft
Design Berm Width	125 ft
Capacity	51,200 cy
Site Access	Land - Beach Blvd. Water - LIS
Staging Area	Potential staging areas at two large paved lots behind beach and bicycle/walking path. Vehicle access is restricted by a guardrail in some areas but it is possible to access the beach in certain places.
Additional Considerations	Solid fill piers at north and south ends and a stone groin in center. Piers are barriers to sediment transport. Beach covers the landward end of the center groin and this allows sand transport over the berm. Low-lying dunes occur between beach and road. Dune area at center of parcel is vegetated with trees and shrubs. Dune at north end is vegetated with dune grass. Nourishment area is longer than the parcel itself, but the City of West Haven has an easement agreement with private owners to manage beaches from Savin Rock to Washington St area, so nourishment could extend beyond the parcel boundaries.

Site 325 Altschuler Beach
West Haven, CT

Date: June 23, 2010

Direction: East

Description:

Beach profile looking east.

Date: June 23, 2010

Direction: East

Description:

Vegetated area at back of beach has trees and shrubs.

Site 325 Altschuler Beach
West Haven, CT

Date: June 23, 2010

Direction: West

Description:

Solid fill pier at west end of parcel.

Date: June 23, 2010

Direction: North

Description:

Potential staging in lot in back of beach. Vehicle access is restricted in some areas by guardrail.

Parcel	MBL
1	021/0189/0/0000
2	021/0130/0/0000
3	021/0190/0/0000
4	021/0193/0/0000
5	021/0186/0/0000
6	021/0192/0/0000

Site 325 West Haven, CT
Altschuler Beach

Site 327 Bradley Point Park West Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 1000
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_327-2.ai

Site 327 Bradley Point Park West Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 694
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_327-3.ai

Site 327 Bradley Point Park

West Haven, CT

Site Address	Captain Thomas Blvd. (Ocean Ave.), West Haven, CT
General Description	Municipal Beach and recreation area on New Haven Harbor in West Haven, Connecticut. Parcel includes two sandy beach areas separated by a rocky headland.
Ownership/POC	City of West Haven Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Residential; open space/recreation areas on upland portion of parcel.
Wetlands	Yes. Mapped wetlands near rocky headland area on site.
State and Federally Listed Species Habitat	No.
Sediment Type	Medium grained sand with shell hash
Nourishment Length	Two separate areas for beach nourishment: South facing beach - 400 ft East facing beach - 870 ft
Design Berm Width	Two separate areas for beach nourishment: South facing beach - 40 ft East facing beach - 87 ft
Capacity	11,600 cy
Site Access	Land – Captain Thomas Blvd. (also known as Ocean Ave). Water - LIS
Staging Area	Potential staging area in paved lot between grassy recreation area and road behind beach.
Additional Considerations	East facing beach (east side of rocky headland) has a low-lying dune between the beach and paved walking path. Stone seawalls on both sides of beach in this area. South facing beach (west of rocky headland) has a narrower berm, much of which is under water at high tide. Small section of beach with fringing marsh near rocky headland. Nourishment would not extend to fringing marsh or rocky headland areas.

Site 327 Bradley Point Park
West Haven, CT

Date: June 23, 2010

Direction: South

Description:

North side beach looking south toward rocky headland.

Date: June 23, 2010

Direction: South

Description:

Fringing marsh at side of rocky headland area.

Site 327 Bradley Point Park
West Haven, CT

Date: June 23, 2010

Direction: West

Description:

Fringing marsh and sandy area on south side of rocky headland. Nourishment would not be done in this wetland area.

Date: June 23, 2010

Direction: South

Description:

Possible staging in parking area behind beach.

Parcel	MBL
1	015/0139/0/0000
2	015/0142/0/0000
3	015/0138/0/0000

Site 327 West Haven, CT

Bradley Point Park

Site 329 Morse Beach
West Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

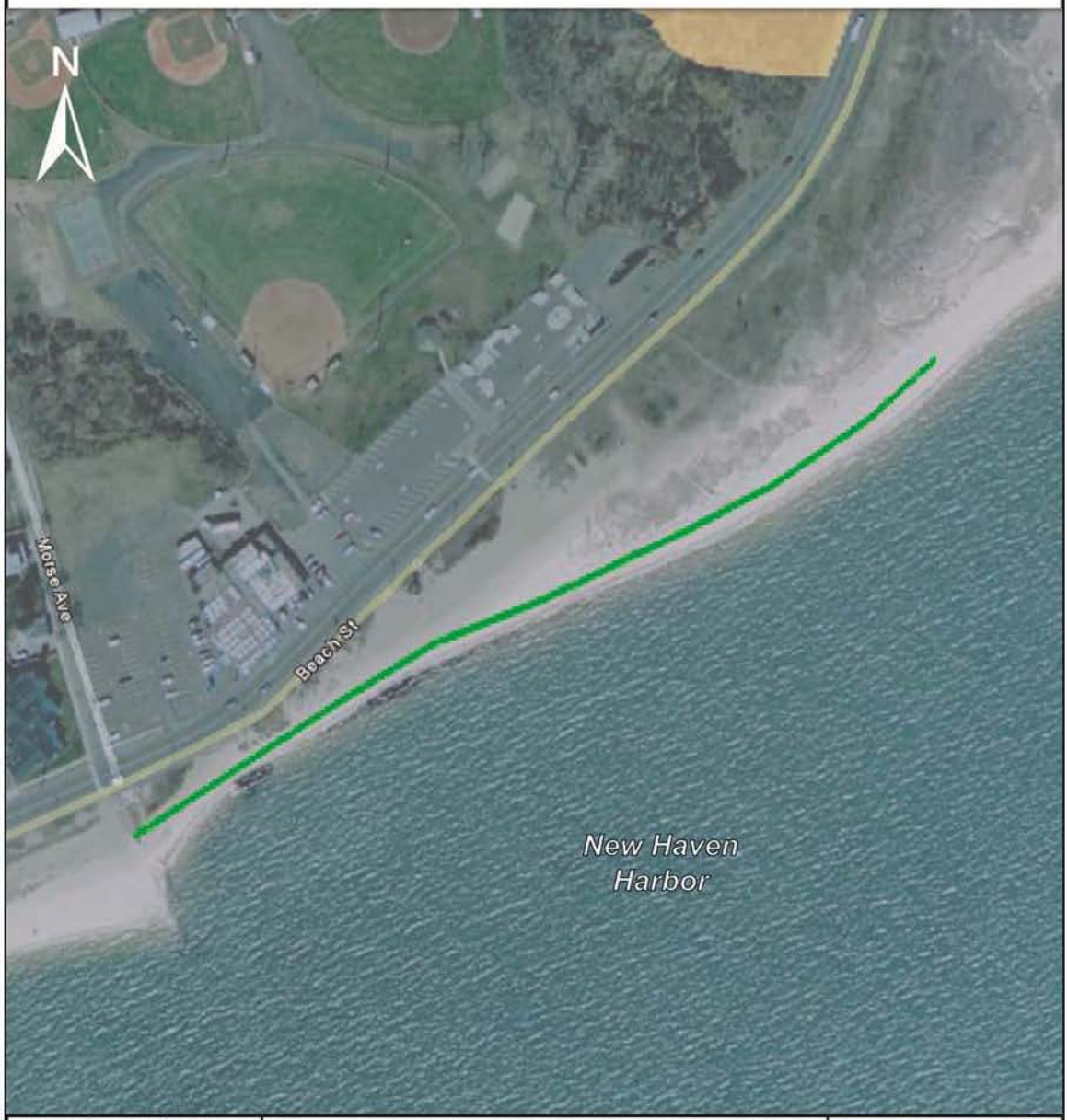
0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_329-2.ai

Site 329 Morse Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)

Nourishment Area

0 635
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_329-3.ai

Site 329 Morse Beach

West Haven, CT

Site Address	101 Beach St., West Haven, CT
General Description	Municipal Beach on west side of New Haven Harbor with recreation area on upland side of road.
Ownership/POC	City of West Haven, CT Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Residential; open space to north and along beach.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium-grained sand
Nourishment Length	1,240 ft
Design Berm Width	100 ft
Capacity	17,700 cy
Site Access	Land - Beach St. Water - LIS
Staging Area	No staging directly adjacent to beach, but there is a large paved lot on opposite side of street.
Additional Considerations	This parcel abuts site 332, Sandy Point. That parcel extends east to a sand spit on the west side of New Haven Harbor channel. Sediment transport is west-east in this area, so sand from Morse beach is moving toward the Sandy Point beach parcel, and out onto the spit. The sand spit has two forks – the southern fork is called Morse Beach Spit; the northern fork is called Sandy Point Spit. Beach at west end of parcel is badly eroded – almost to street. Needs sand to protect the road and associated public utilities that run along roadway. Stone groin and rip-rap at southwest end of beach where erosion is most extreme. Beach nourishment occurred in 1994. 14,000 tons of sand was brought by truck to the beach. Dune between beach and road along most of beach; wider at northeast end. Dune is approximately at grade with road (not elevated).

Site 329 Morse Beach
West Haven, CT

Date: June 23, 2010

Direction: East

Description:

View of beach from west side of parcel. Site 322, Sandy Point, can be seen in the distance.

Date: June 23, 2010

Direction: South

Description:

Stone groin and rip-rap at west end of beach.

Site 329 Morse Beach
West Haven, CT

Date: June 23, 2010

Direction: North

Description:

Beach is eroded almost to road at west side of parcel.

Date: June 23, 2010

Direction: South

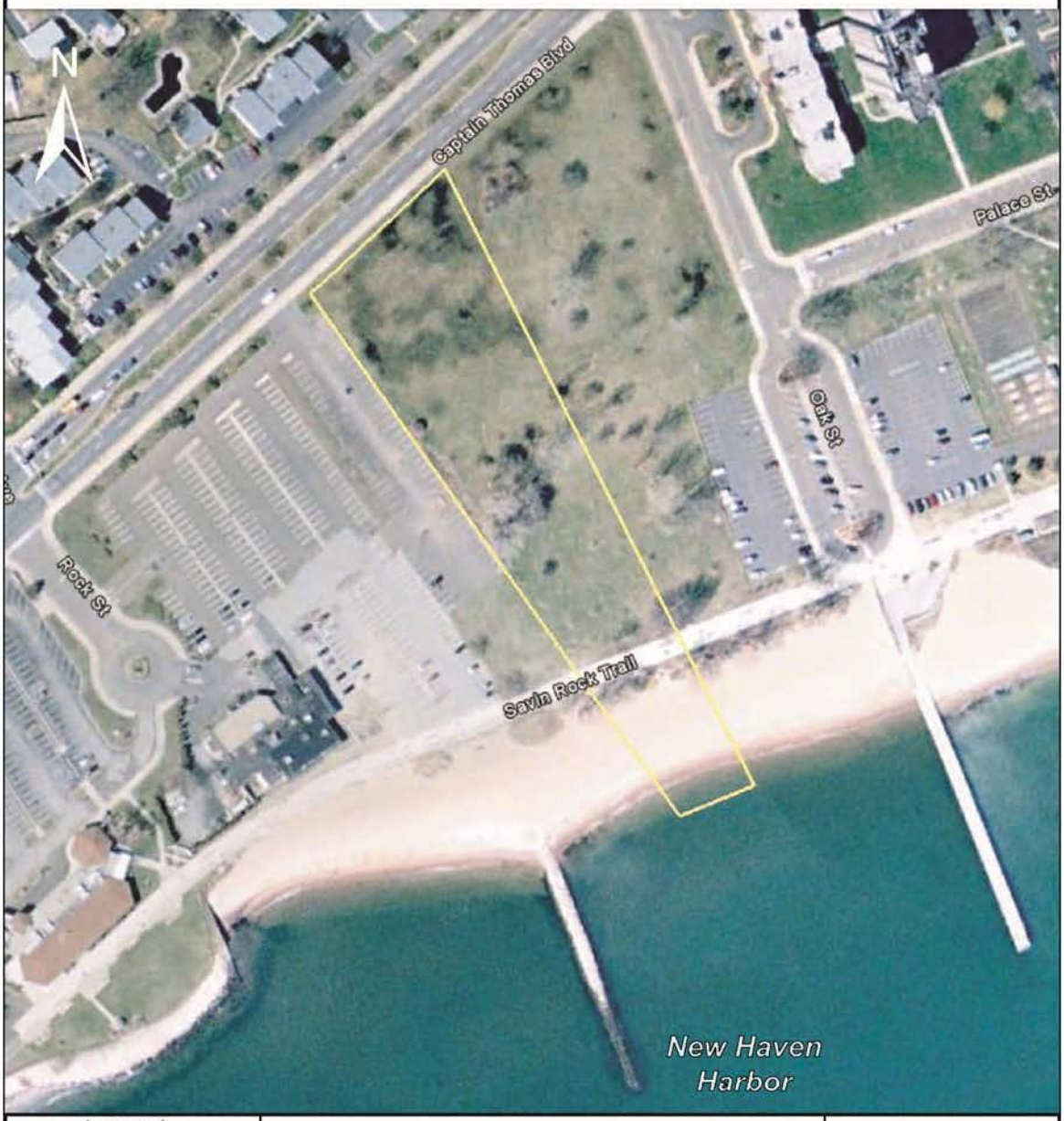
Description:

No staging area directly adjacent to beach. Paved lot is across street from beach.

Parcel	MBL
1	036/0158/0/0000
2	028/0222/0/0000
3	022/0145/0/0000
4	022/0148/0/0000

Site 329 West Haven, CT
Morse Beach

Site 330 Oak Street Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

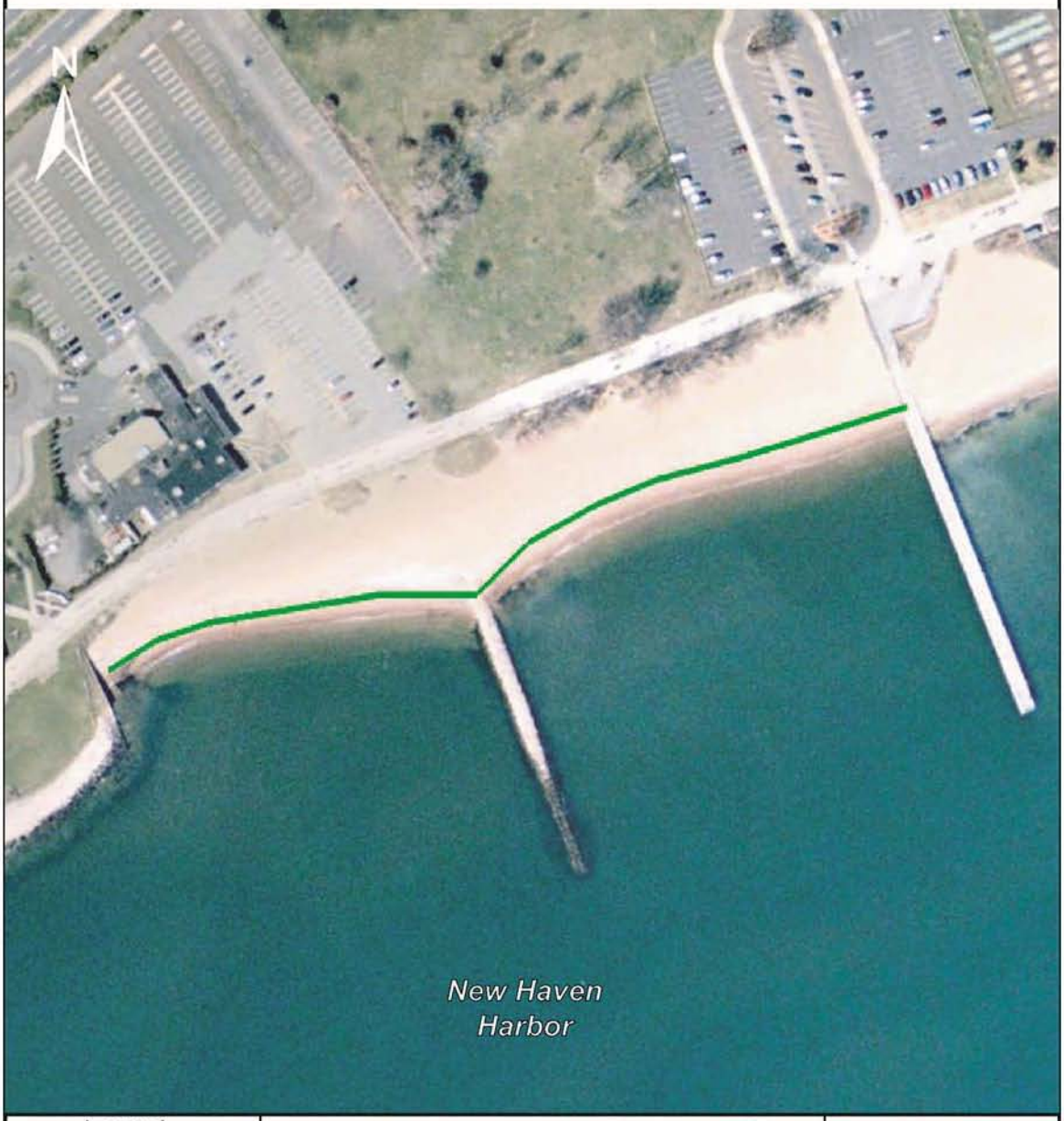
0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_330-2.ai

Site 330 Oak Street Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 439
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_330-3.ai

Site 330 Oak Street Beach

West Haven, CT

Site Address	Oak St., West Haven, CT
General Description	Municipal Beach on New Haven Harbor.
Ownership/POC	City of West Haven, CT Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Recreational (bicycle/walking path along beach); mixed commercial and residential surrounding site.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Sediment Type	Well sorted medium grained sand
Nourishment Length	880 ft
Design Berm Width	125 ft
Capacity	17,700 cy
Site Access	Land - Oak St. Water – New Haven Harbor
Staging Area	Potential staging area in paved lot behind beach and bicycle/walking path.
Additional Considerations	Small public beach in boardwalk/recreation area. Vegetated area with trees and grass in back of beach. Berm is very flat, nearshore area slopes gradually to water. Stone groin at west end; solid fill pier to east. Solid fill pier blocks sediment transport. Parcel itself is small, but City of West Haven has an easement agreement with private parcel owners to maintain beach. Therefore if material was available for this parcel, the areas east and west of the parcel lines, but within adjacent groins, could also be nourished.

Site 330 Oak Street Beach
West Haven, CT

Date: June 23, 2010

Direction: East

Description:

Beach profile looking east.

Date: June 23, 2010

Direction: Southeast

Description:

Vegetated area at back of beach; solid fill pier in background.

Site 330 Oak Street Beach
West Haven, CT

Date: June 23, 2010

Direction: East

Description:

Stone groin at west end of parcel.

Date: June 23, 2010

Direction: East

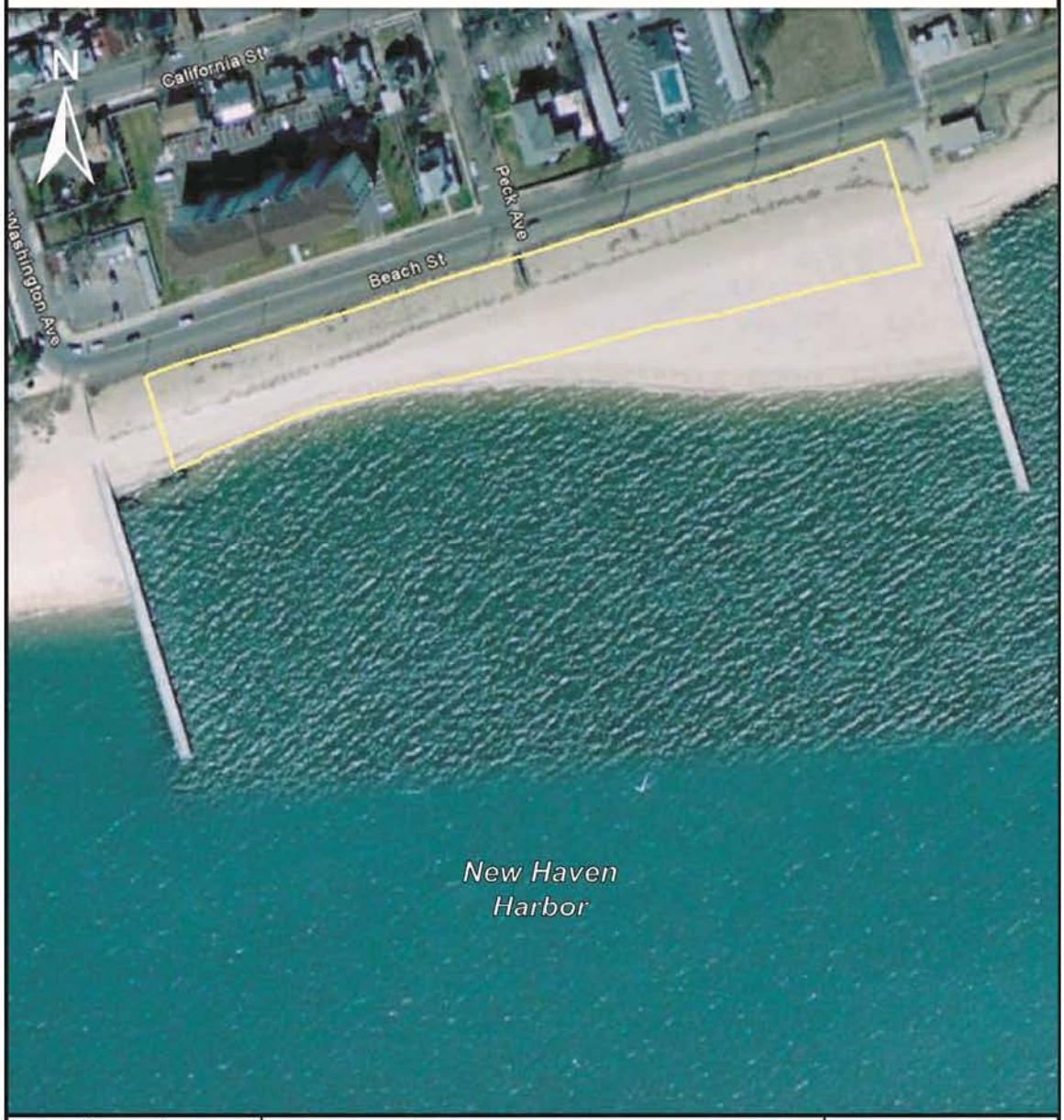
Description:

Walkway at back of beach; parking/staging area lies behind walkway (left side of photo).

Parcel	MBL
1	020/0218/0/0000
2	021/0193/0/0000
3	021/0195/0/0000

Site 330 West Haven, CT
Oak Street Beach

Site 331 Peck Beach
West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

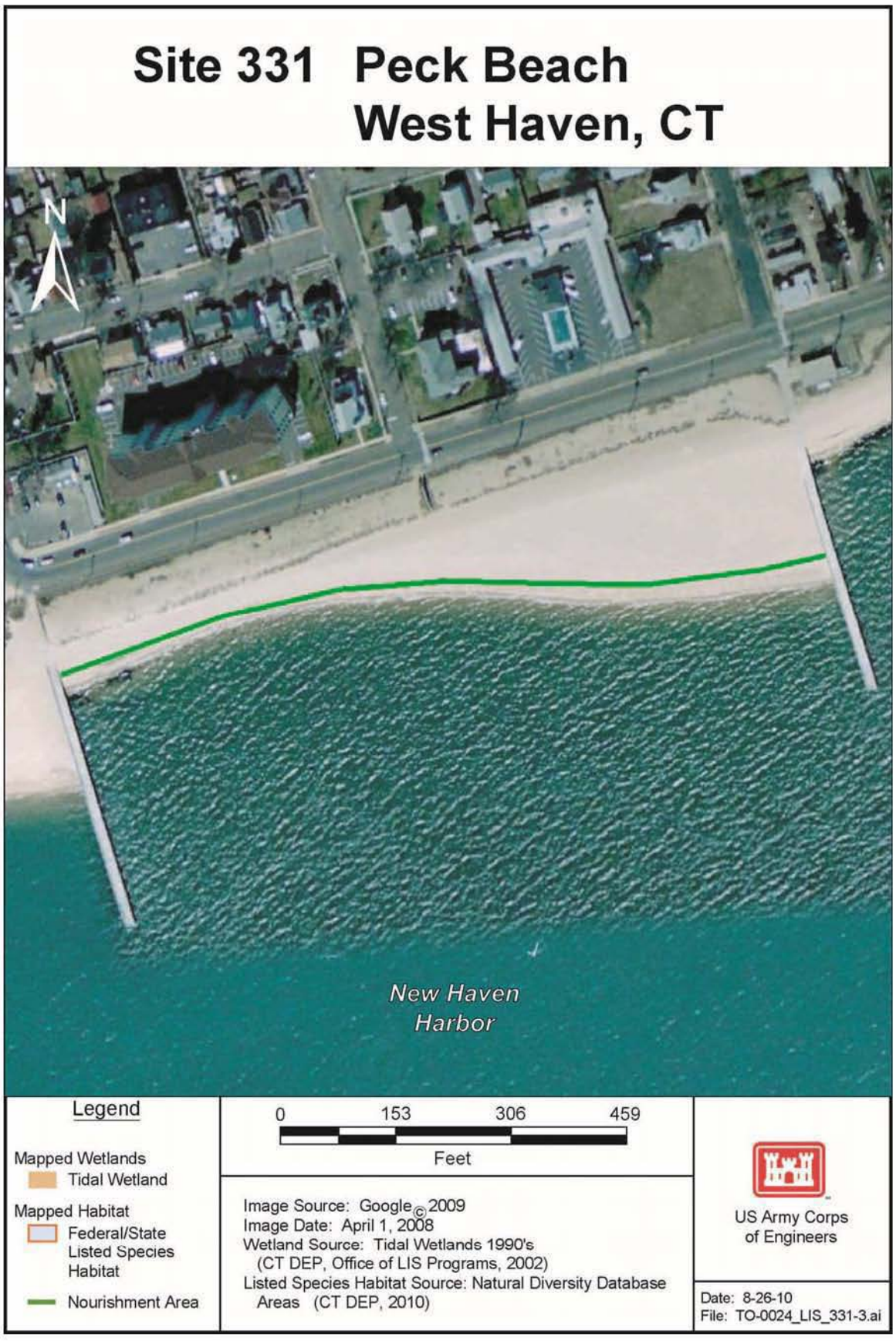
Mapped Habitat
Federal/State Listed Species Habitat

0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_331-2.ai


Site 331 Peck Beach
West Haven, CT
N
New Haven
Harbor
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
Nourishment Area
0
153
306
459
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-26-10
File: TO-0024_LIS_331-3.ai

Site 331 Peck Beach

West Haven, CT

Site Address	322 Beach St., West Haven, CT
General Description	Municipal Beach on New Haven Harbor. Beach lies along roadway at Beach St.
Ownership/POC	City of West Haven, CT Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Residential
Wetlands	No.
State and Federally Listed Species Habitat	No.
Sediment Type	Coarse to medium-grained sand
Nourishment Length	1,040 ft
Design Berm Width	125 ft
Capacity	29,800 cy
Site Access	Land - Beach Blvd. Water – New Haven Harbor
Staging Area	No staging areas directly adjacent to beach. Road and sidewalk parallel the beach, running the entire length.
Additional Considerations	Solid fill piers at both ends of beach. Piers are connected to the roadway inland of the beach, and extend seaward approximately 300 ft. Dune between beach and sidewalk is elevated and vegetated. Beach access is via elevated cement walkway over dunes, or by top of pier.

Site 331 Peck Beach
West Haven, CT

Date: June 23, 2010

Direction: Northeast

Description:

View of beach from pier at west side of parcel.

Date: June 23, 2010

Direction: Northeast

Description:

Access to beach via cement walkway.

Site 331 Peck Beach
West Haven, CT

Date: June 23, 2010

Direction: North

Description:

Solid fill pier at west end of parcel.

Date: June 23, 2010

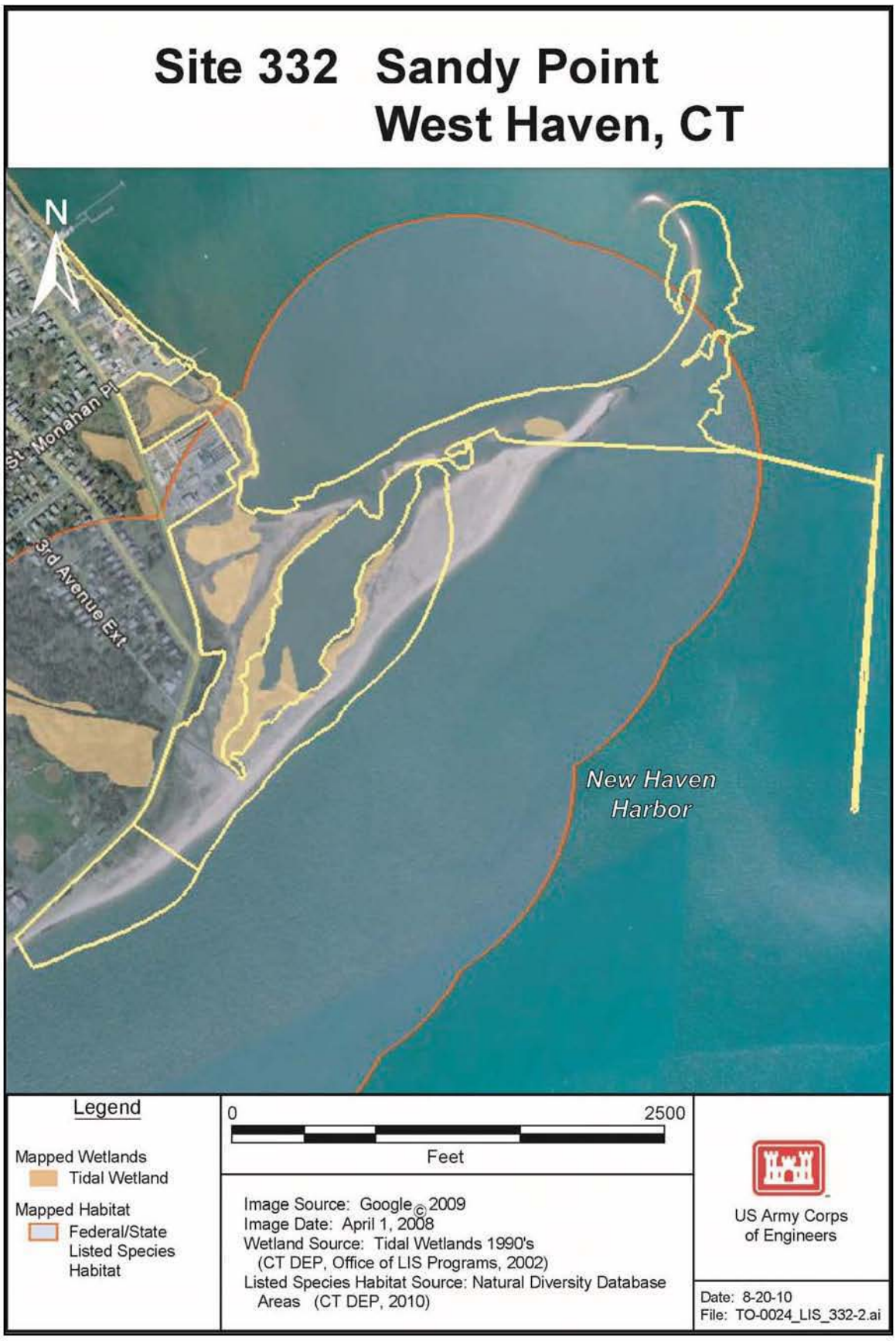
Direction: East

Description:

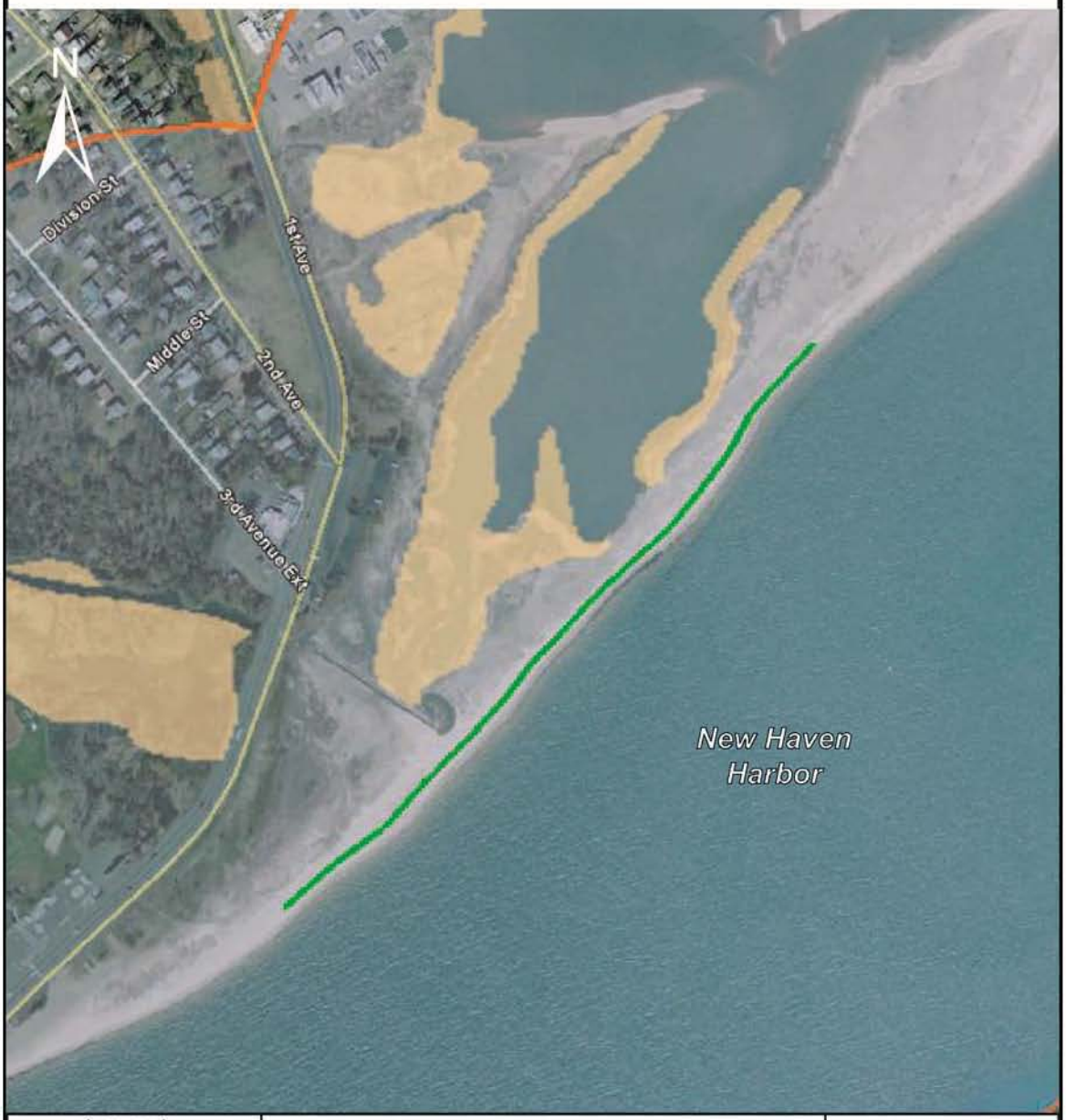
No staging area directly adjacent to beach. Roadway and sidewalk with fence run the length of the beach.

Parcel	MBL
1	022/0055/0/0000
2	022/0056/0/0000
3	022/0054/0/0000
4	022/0002/0/0000
5	022/0005/0/0000
6	022/0004/0/0000
7	022/0003/0/0000
8	022/0165/0/0000
9	022/0001/0/0000
10	022/0175/0/0000

Site 331 West Haven, CT
Peck Beach


Site 332 Sandy Point
West Haven, CT
N
St. Monahan Pl
3rd Avenue Ext
New Haven
Harbor
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
0
2500
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-20-10
File: TO-0024_LIS_332-2.ai

Site 332 Sandy Point West Haven, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 1293
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_332-3.ai

Site 332 Sandy Point

West Haven, CT

Site Address	101 Beach St., West Haven, CT
General Description	Municipal Beach just west of New Haven Harbor with sand spit forming on east side of parcel.
Ownership/POC	City of West Haven, CT Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Residential and commercial to northwest; open space to west.
Wetlands	Yes. Wetlands are mapped between the sand spits.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium-grained sand
Nourishment Length	1,930 ft
Design Berm Width	100 ft
Capacity	27,700 cy
Site Access	Land - Beach St. Water – New Haven Harbor
Staging Area	Potential staging area in paved and gravel lot across street. No area directly adjacent to beach.
Additional Considerations	Two sand spits come together at the east end of the parcel; the Morse Beach Spit (south fork of the spit) and Sandy Point Spit (north fork of the spit). An extensive tidal wetland lies between them, with tide gates running under the roadway inland of beach. A wastewater outfall pipe runs out along the Sandy Point spit, then across the Morse Beach Spit, and finally extends south to discharge in open water. Pipe's housing is becoming exposed in certain areas due to sand movement. Vegetated dunes extend down the center of the Morse Beach Spit. Plover nesting areas and fringing marsh on Morse Beach Spit. Nourishment would stop short of the sand spit, as material from the beach parcels is accreting here. Cultural resources present.

Site 332 Sandy Point
West Haven, CT

Date: June 23, 2010

Direction: East

Description:

View of beach from west end of parcel.

Date: June 23, 2010

Direction: South

Description:

Wetland and tidal creek between the two sand spits.

Site 332 Sandy Point
West Haven, CT

Date: June 23, 2010

Direction: East

Description:

Sandy Point spit at north end of parcel, with exposed cement housing for wastewater outfall pipe that runs through the spits to an offshore discharge point.

Date: June 23, 2010

Direction: North

Description:

Endangered shorebird enclosure areas in dunes on sand spit.

Parcel	MBL	Parcel	MBL
1	036/0161/0/0000	18	036/0138/0/0000
2	036/0159/0/0000	19	036/0139/0/0000
3	036/0162/0/0000	20	036/0140/0/0000
4	036/0160/0/0000	21	036/0141/0/0000
5	028/0220/0/0000	22	036/0142/0/0000
6	028/0219/0/0000	23	036/0143/0/0000
7	028/0217/0/0000	24	036/0144/0/0000
8	028/0218/0/0000	25	036/0145/0/0000
9	028/0222/0/0000	26	036/0146/0/0000
10	028/0221/0/0000	27	036/0153/0/0000
11	028/0230/0/0000	28	036/0154/0/0000
12	028/0229/0/0000	29	036/0155/0/0000
13	028/0228/0/0000	30	036/0156/0/0000
14	028/0227/0/0000	31	036/0157/0/0000
15	028/0223/0/0000	32	036/0152/0/0000
16	022/0147/0/0000	33	036/0172/0/0000
17	036/0137/0/0000	34	028/0231/0/0000

Site 332 West Haven, CT
Sandy Point

Site 333 Savin Rock
West Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_333-2.ai

Site 333 Savin Rock
West Haven, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 204
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_333-3.ai

Site 333 Savin Rock

West Haven, CT

Site Address	6 Rock St., West Haven, CT
General Description	Municipal Beach and recreation area in West Haven, CT. Sits on a rocky headland west of the entrance to New Haven Harbor.
Ownership/POC	City of West Haven Mark Paine, Assistant Commissioner (203) 937-3681
Zoning	OS Open Space
Surrounding Land Use	Recreational (bicycle/walking path along beach), open space to west, commercial (conference center) on parcel and other commercial to east, residential area north across roadway.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Sediment Type	No beach; n/a
Nourishment Length	290 ft
Design Berm Width	29 ft
Capacity	1,800 cy
Site Access	Land – Beach Blvd. Water – New Haven Harbor
Staging Area	Potential staging area in large paved lot behind beach.
Additional Considerations	No beach at present. Armored bank on parcel. Generally a rocky headland may not be an optimal site for beach nourishment. However, the City of West Haven has an easement agreement with private parcel owners in the vicinity for maintenance of beaches. So nourishment could occur in this area, if sand became available for the adjacent beach parcels. In this case placement of sand would serve to connect the beach parcels on either side, and would provide protection to the stone revetment on this parcel.

Site 333 Savin Rock
West Haven, CT

Date: June 23, 2010

Direction: West

Description:

Rocky headland on parcel.

Date: June 23, 2010

Direction: North

Description:

Conference center and lawn at back of headland.

Site 333 Savin Rock
West Haven, CT

Date: June 23, 2010

Direction: South

Description:

Recreation area at top of headland.

Date: June 23, 2010

Direction: West

Description:

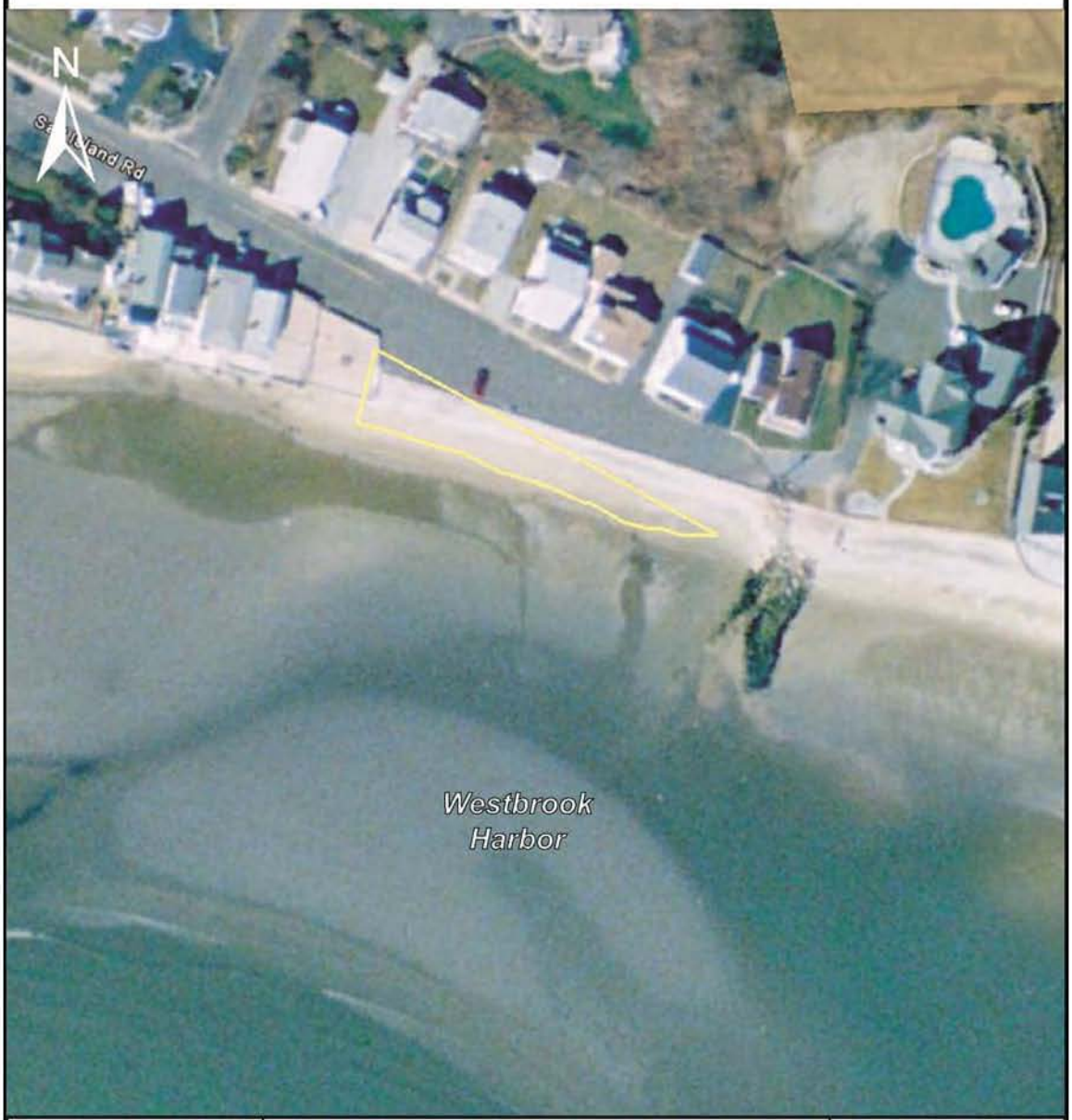
View from sandy beach on adjacent parcel

Parcel	MBL
1	020/0218/0/0000
2	020/0219/0/0000
3	015/0142/0/0000
4	015/0143/0/0000
5	020/0229/0/0000
6	020/0220/0/0000
7	015/0140/0/0000

Site 333 West Haven, CT

Savin Rock

Site 344 Middle Beach Westbrook, CT



Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 250
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_344-2.ai

Site 344 Middle Beach Westbrook, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

Nourishment Area

0 68 136 204
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_344-3.ai

Site 344 Middle Beach

Westbrook, CT

Site Address	Salt Island Rd., Westbrook, CT
General Description	Municipal Beach in Westbrook Harbor, on the north side of Long Island Sound.
Ownership/POC	Town of Westbrook, CT Rich Annino, Parks and Recreation (860) 399-3095
Zoning	HDR High Density Residential
Surrounding Land Use	Residential; extensive wetland across road in back of homes.
Wetlands	No. Mapped wetland abuts row of houses north of beach.
State and Federally Listed Species Habitat	No.
Sediment Type	Well sorted coarse sand
Nourishment Length	220 ft
Design Berm Width	22 ft
Capacity	600 cy
Site Access	Road – Salt Island Rd. (paved road in residential neighborhood). No known restrictions on truck traffic. Water – Westbrook Harbor
Staging Area	Potential staging area in small paved lot that runs along the road in back of beach (room for 10 cars in lot).
Additional Considerations	Stone groin on east end of beach encloses a culvert that runs under the road to a wetland on opposite side of the road, in back of neighboring residences. Berm is narrow; approximately 0-6 ft wide at high tide. Stone and cement revetment runs between the road and berm. This revetment lies approximately 2.5-3 ft above the beach berm. Cultural resources present.

Site 344 Middle Beach
Westbrook, CT

Date: July 16, 2010

Direction: East

Description:

Beach profile looking east.

Date: July 16, 2010

Direction: South

Description:

Stone groin and culvert at east end of beach.

Site 344 Middle Beach
Westbrook, CT

Date: July 16, 2010

Direction: Southeast

Description:

View of east end of beach, showing groin, culvert, and stone/cement revetment between beach and parking area.

Date: July 16, 2010

Direction: Southeast

Description:

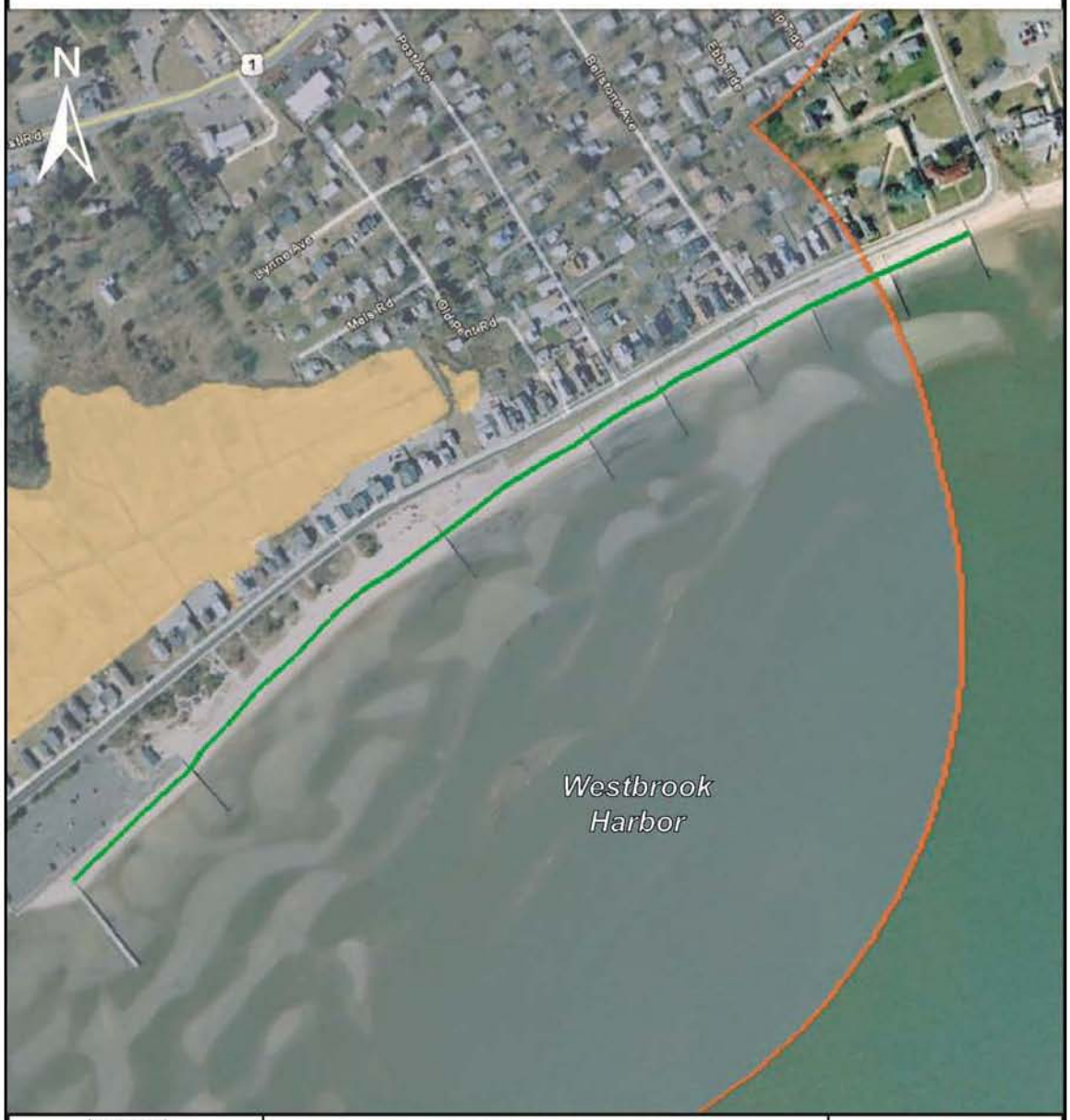
Potential staging area in paved lot behind beach.

Parcel	MBL
1	182-101
2	182-103
3	182-104
4	182-105
5	182-106
6	182-110
7	182-102

Site 344 Westbrook, CT
Middle Beach


Site 345 West Beach
Westbrook, CT
N
Eckford Ave
Post Ave
Bellstone Ave
Perigee Ln
Apogee Ln
Boston Post Rd
1
Meis Rd
Tarpon Ave
Seaside Ave
Westbrook Harbor
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
0 500 1000 1500
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_345-2.ai

Site 345 West Beach
Westbrook, CT



Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 312 624 936
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_345-3.ai

Site 345 West Beach
Westbrook, CT

Site Address	Seaside Ave., Westbrook, CT
General Description	Municipal Beach in Westbrook Harbor, north side of Long Island Sound.
Ownership/POC	Town of Westbrook, CT Rich Annino, Parks and Recreation (860) 399-3095
Zoning	HDR High Density Residential
Surrounding Land Use	Residential; extensive wetland across road in back of homes.
Wetlands	No. Mapped wetland across road in back of homes that border beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium to coarse-grained sand
Nourishment Length	2,570 ft
Design Berm Width	100 ft
Capacity	42,200 cy
Site Access	Land – Seaside Ave. Water – Westbrook Harbor
Staging Area	Potential staging area in large paved lot behind beach at west end. Lot is elevated above beach berm so access may require alternate route, such as through a break in dunes.
Additional Considerations	Stone and cement groins in various places along the beach. Berm is very narrow at public swim area on the west side; wider toward the east end of the beach. Beach berm is lower than street along the eastern half of the beach, until the start of the dunes. A cement revetment lies between the street and the beach from the east end of parcel to the dune area. Vegetated dunes lie between beach and road along the western half of parcel. Dune restoration project in progress, sponsored by the Town and Boy Scouts. Small boats moored just offshore in certain areas. Swimming area at west end near a bath house and picnic area.

Site 345 West Beach
Westbrook, CT

Date: July 16, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 16, 2010

Direction: East

Description:

Beach profile looking east. Paved parking lot at left side of photograph.

Site 345 West Beach
Westbrook, CT

Date: July 16, 2010

Direction: North

Description:

Vegetated dunes between beach and road on west side of parcel.

Date: July 16, 2010

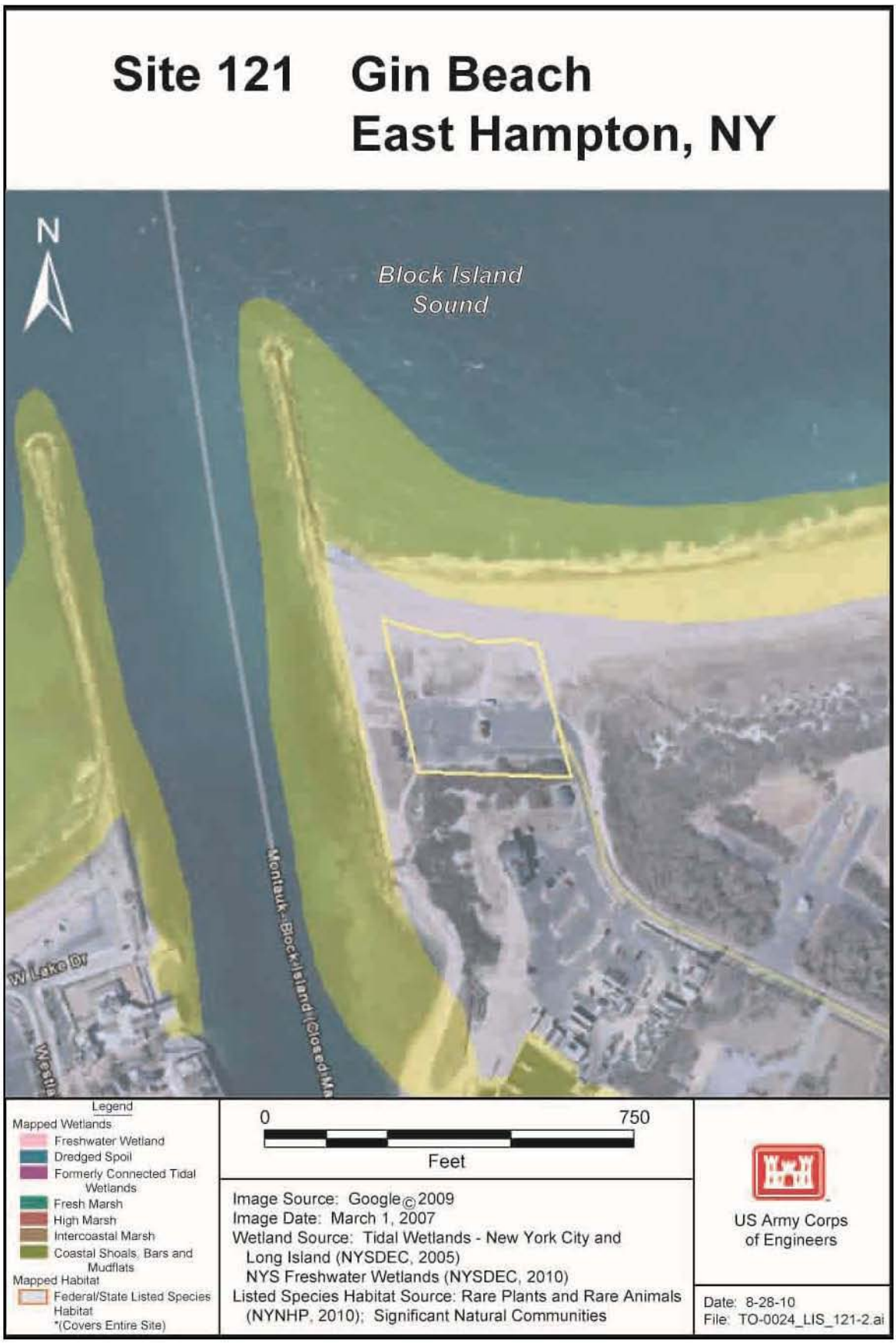
Direction: East

Description:

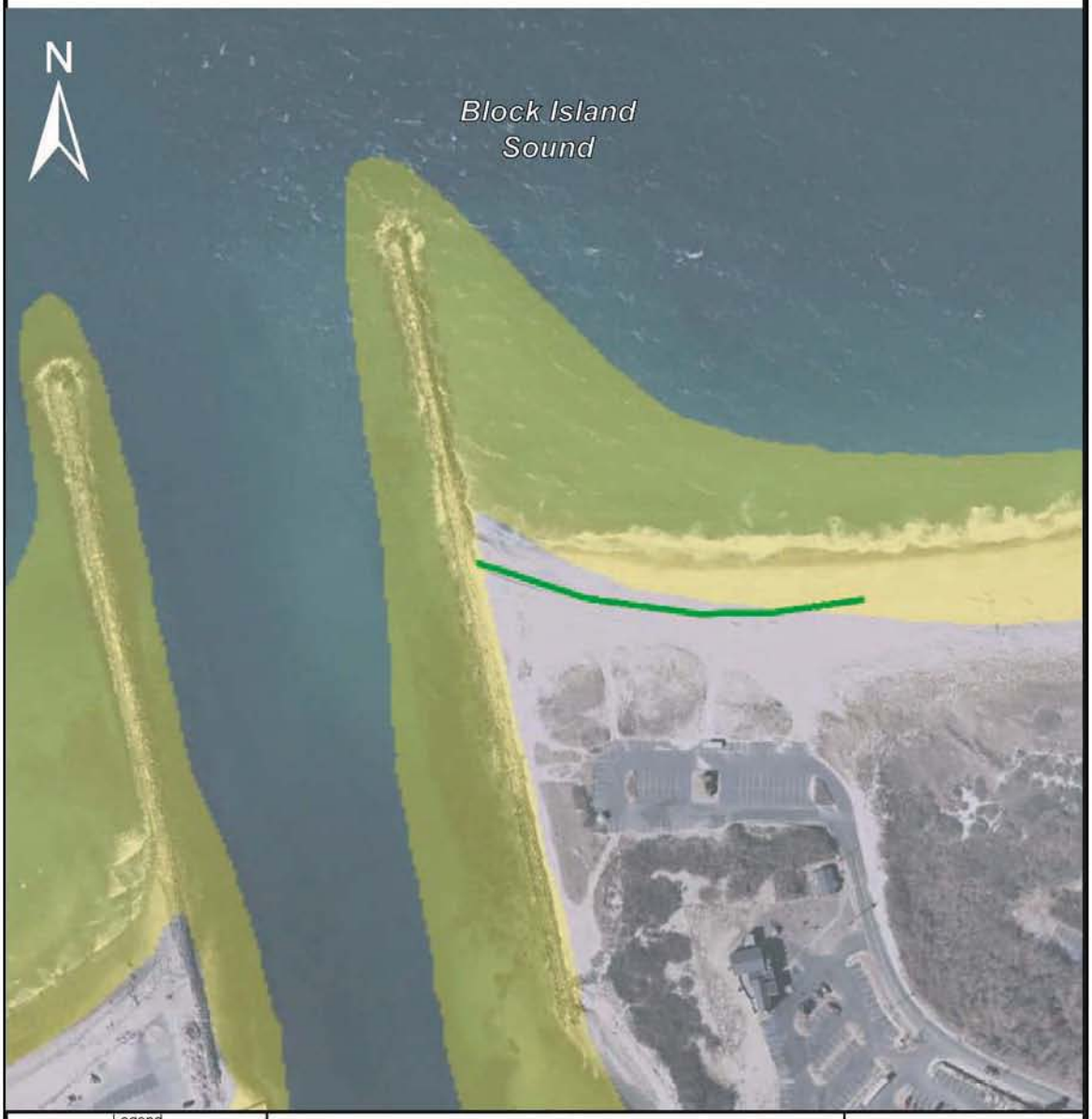
Access to beach via paved area at west end of beach. This area connects with parking lot behind swim area at west end of beach.

Parcel	MBL	Parcel	MBL	Parcel	MBL
1	015/0137/0/0000	22	010/0295/0/0000	43	010/0424/0/0000
2	015/0143/0/0000	23	010/0296/0/0000	44	010/0423/0/0000
3	015/0144/0/0000	24	010/0294/0/0000	45	010/0422/0/0000
4	015/0145/0/0000	25	010/0293/0/0000	46	010/0421/0/0000
5	015/0012/0/0000	26	010/0292/0/0000	47	007/0176/0/0000
6	015/0009/0/0000	27	010/0291/0/0000	48	007/0175/0/0000
7	015/0008/0/0000	28	010/0599/0/0000	49	007/0174/0/0000
8	015/0007/0/0000	29	010/0420/A/0000	50	007/0173/0/0000
9	011/0023/0/0000	30	010/0437/0/0000	51	007/0172/0/0000
10	011/0022/0/0000	31	010/0436/0/0000	52	007/0164/0/0000
11	011/0021/0/0000	32	010/0434/0/0000	53	007/0163/0/0000
12	011/0020/0/0000	33	010/0435/0/0000	54	007/0162/0/0000
13	011/0019/0/0000	34	010/0433/0/0000	55	007/0151/0/0000
14	011/0018/0/0000	35	010/0431/0/0000	56	007/0152/0/0000
15	011/0012/0/0000	36	010/0432/0/0000	57	007/0150/0/0000
16	011/0011/0/0000	37	010/0430/0/0000	58	007/0148/0/0000
17	011/0009/0/0000	38	010/0429/0/0000	59	007/0149/0/0000
18	011/0005/0/0000	39	010/0428/0/0000	60	007/0067/0/0002
19	011/0004/0/0000	40	010/0427/0/0000	61	007/0067/0/0001
20	011/0001/0/0000	41	010/0426/0/0000	62	007/0066/0/0000
21	010/0297/0/0000	42	010/0425/0/0000	63	007/0177/0/0000

Site 345 Westbrook, CT
West Beach


Site 121 Gin Beach
East Hampton, NY
N
Block Island
Sound
Montauk-Block Island (Closed) Ma
W Lake Dr
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
*(Covers Entire Site)
0
750
Feet
Image Source: Google© 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-28-10
File: TO-0024_LIS_121-2.ai

Site 121 Gin Beach
East Hampton, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 590
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-28-10
File: TO-0024_LIS_121-3.ai

Site 121 Gin Beach

East Hampton, NY

Site Address	East Lake Dr., Montauk, NY
General Description	Municipal Beach located on the east side of Lake Montauk Harbor inlet.
Ownership/POC	Town of East Hampton, NY Robert Rogers, East Hampton Parks and Recreation (631) 324-6124
Zoning	PC Parks and conservation
Surrounding Land Use	Commercial marinas and restaurants/residential properties to the west and south of the site; County park to the east.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of the site.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium-grained sand
Nourishment Length	550 ft
Design Berm Width	200 ft
Capacity	9,000 cy
Site Access	Land – East Lake Dr. Water – Block Island Sound or Lake Montauk Harbor
Staging Area	Potential staging area in paved parking lot landward of beach; potential access for equipment across walking path through dunes.
Additional Considerations	Western end of the beach is bound by the eastern Lake Montauk Harbor jetty; beach elevation is flush with the top of the jetty. Dunes between beach and parking lot are approximately 30 ft wide and 15 ft high. Beach has significant capacity for sand as the jetty is not filled to entrapment. Cultural resources present.

Site 121 Gin Beach
East Hampton, NY

Date: July 13, 2010

Direction: West

Description:

Beach profile looking to the west showing the Lake Montauk Harbor jetties.

Date: July 13, 2010

Direction: East

Description:

Beach profile showing Theodore Roosevelt County Park to the east.

Site 121 Gin Beach
East Hampton, NY

Date: July 13, 2010

Direction: South

Description:

Western end of Gin Beach showing the eastern Lake Montauk Harbor jetty and the entrance channel.

Date: July 13, 2010

Direction: East

Description:

Potential staging for trucks and grading equipment in lot at back of beach.

Parcel	DSBL
1	0300006000200003001
2	0300007000100003000

Site 121 East Hampton, NY
Gin Beach


Site 64
Hobart Beach
Huntington, NY
N
Huntington Bay
Price Bend
Northport Bay
Argyle Dr
Birmingham Dr
Eatons Neck Rd
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
0
2500
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_64-2.ai


Site 64 Hobart Beach
Huntington, NY
N
Huntington Bay
Price Bend
Northport Bay
Birmingham Dr
Eatons Neck Rd
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Nourishment Area
0
2500
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-26-10
File: TO-0024_LIS_64-3.ai

Site 64 Hobart Beach

Huntington, NY

Site Address	Eatons Neck Rd., Huntington, NY
General Description	Municipal Beach on spit between Northport Bay and Huntington Harbor. Dune area is a waterbird park/preserve.
Ownership/POC	Town of Huntington, NY Donald McKay, Huntington Director Parks and Recreation (631) 351-3089
Zoning	R-5 Residential
Surrounding Land Use	Residential; marina in Northport Bay.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site. Plover and tern nesting areas noted on site visit.
Sediment Type	Poorly sorted medium sand
Nourishment Length	2,370 ft
Design Berm Width	237 ft
Capacity	128,800 cy
Site Access	Land – Crescent Beach Dr. Water – Huntington Bay
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Sand is accreting at southern end. A vegetated dune runs along the beach and is enlarged both at the north side of the beach, and at the south end near the terminal end of the spit. Enclosure areas in dunes provide nesting areas for plovers, terns, and oyster catchers. Nourishment area is the narrow part of the barrier beach; spit area where sediment is accreting would not need sand. Cultural resources present.

Site 64 Hobart Beach
Huntington, NY

Date: July 13, 2010

Direction: South

Description:

Beach profile looking south.

Date: July 13, 2010

Direction: North

Description:

Beach profile looking north. Parking lot/potential staging area in background of photo at right.

Site 64 Hobart Beach
Huntington, NY

Date: July 13, 2010

Direction: East

Description:

Bird enclosure areas on dune.

Date: July 13, 2010

Direction: North

Description:

Potential staging area in lot behind beach.

Parcel	DSBL
1	0400003000100086000
2	0400003000300071000

Site 64 Huntington, NY
Hobart Beach

Site 67 Crescent Beach Huntington, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_67-2.ai

Site 67 Crescent Beach Huntington, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 263

Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_67-3.ai

Site 67 Crescent Beach

Huntington, NY

Site Address	Crescent Beach Dr., Huntington Bay, NY
General Description	Small Municipal Beach on Huntington Bay. Offshore area is used for recreational boating; upland has a grassy park and play area for children.
Ownership/POC	Town of Huntington Bay, NY Harold Acker, Manager Maritime Services (631) 351-3327
Zoning	R20 Residential
Surrounding Land Use	Residential; open space/recreational area on parcel behind beach.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted medium sand with pebbles
Nourishment Length	380 ft
Design Berm Width	75 ft
Capacity	3,600 cy
Site Access	Land – Crescent Beach Dr. (Paved road through a neighborhood) Water – Huntington Bay. Shallow near site and heavy recreational boating area.
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Beach has an extremely narrow berm – virtually no beach area at high tide. There is a cement revetment behind beach for shoreline stabilization. Mooring field just offshore.

Site 67 Crescent Beach
Huntington, NY

Date: July 13, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 13, 2010

Direction: East

Description:

Beach profile looking east.

Site 67 Crescent Beach
Huntington, NY

Date: July 13, 2010

Direction: East

Description:

East end of beach at high tide.

Date: July 13, 2010

Direction: North

Description:

Potential staging area in lot behind beach.

Parcel	DSBL
1	0400035000600001000
2	0400035000600004000
3	0400035000600006001
4	0400035000600007000
5	0402008000100061000
6	0402008000100062000
7	0402008000100063000
8	0402008000100064000
9	0402008000100066000
10	0402008000100067000
11	0402008000100068000
12	0402008000100073000
13	0402008000100076000
14	0402008000100077001
15	0402008000100077002
16	0402008000200001000
17	0402008000200002000
18	0402008000200003000
19	0402008000200004000
20	0402008000200021002
21	0402008000200022000

Parcel	DSBL
22	0402008000200040000
23	0402008000200042000
24	0402008000100065000
25	0402008000100075000
26	0402008000200039002
27	0400035000600002000
28	0400035000600042000
29	0402008000100004000
30	0402008000200021004
31	0402008000200039001

Site 67 Huntington, NY
Crescent Beach

Site 68 Gold Star Battalion Beach Huntington, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 500
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_68-2.ai

Site 68 Gold Star Battalion Beach Huntington, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 247
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_68-3.ai

Site 68 Gold Star Battalion Beach

Huntington, NY

Site Address	Browns Rd., Huntington, NY
General Description	Municipal Beach on Huntington Harbor near marina. Beach and recreational facility for young children; town dinghy storage at end of beach.
Ownership/POC	Town of Huntington, NY Donald McKay, Director Parks and Recreation (631) 351-3089
Zoning	R10 Residential
Surrounding Land Use	Residential; open space to west; marina to east.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats directly offshore of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Well sorted medium sand
Nourishment Length	490 ft
Design Berm Width	49 ft
Capacity	2,400 cy
Site Access	Land – West Shore Rd. (paved road in a residential area) Water – Huntington Harbor. Shallow near site and heavy recreational boating use offshore. Small boats are stored at east end of parcel and launched from the beach.
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Wood pier at west end of beach. Mooring field just offshore. Wooden handicap access ramp runs from bath house behind beach almost to the water so fill should be placed to avoid covering the ramp. Cultural resources present.

Site 68 Gold Star Battalion Beach
Huntington, NY

Date: July 12, 2010

Direction: East

Description:

Beach profile looking east.

Date: July 12, 2010

Direction: West

Description:

Beach profile looking west.

Site 68 Gold Star Battalion Beach
Huntington, NY

Date: July 12, 2010

Direction: North

Description:

Cement access ramp in center of beach.

Date: July 12, 2010

Direction: South

Description:

Mooring field offshore.

Parcel	DSBL
1	0400023000100002000
2	0400023000100039000
3	0403014000200073000
4	0400024000100001000

Site 68 Huntington, NY
Gold Star Battalion Beach

Site 81 Breakwater Park Beach
Mattituck, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 1000
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_81-2.ai

Site 81 Breakwater Park Beach Mattituck, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 766
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_81-3.ai

Site 81 Breakwater Park Beach

Mattituck, NY

Site Address	Breakwater Ave., Mattituck, NY
General Description	Municipal beach and recreation area on west side of Mattituck Inlet.
Ownership/POC	Town of Mattituck, NY Mattituck Park District (631) 298-9103
Zoning	R80 Residential Low Density
Surrounding Land Use	Residential; open space/dune behind beach; Mattituck Inlet to the east.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted medium to coarse-grained sand
Nourishment Length	Not considered viable.
Design Berm Width	n/a. Nourishment not considered viable in this area, as sand is accreting in this area and jetty is almost at entrapment.
Capacity	n/a
Site Access	Land – Breakwater Ave. Water – LIS just west of Mattituck Inlet
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Beach is accreting at east end behind jetty at Mattituck Inlet. Nourishment is not considered viable in this area, as jetty is approaching entrapment and Mattituck Inlet lies on the downdrift side. Piping Plover and Least Tern nesting area – enclosures on berm and dune area just behind beach.

Site 81 Breakwater Park Beach
Mattituck, NY

Date: July 12, 2010

Direction: East

Description:

Beach profile looking east.

Date: July 12, 2010

Direction: West

Description:

Beach profile looking west.

Site 81 Breakwater Park Beach
Mattituck, NY

Date: July 12, 2010

Direction: Southwest

Description:

Tern and plover nest area enclosure behind beach.

Date: July 12, 2010

Direction: Northwest

Description:

Potential staging in paved parking area behind beach.

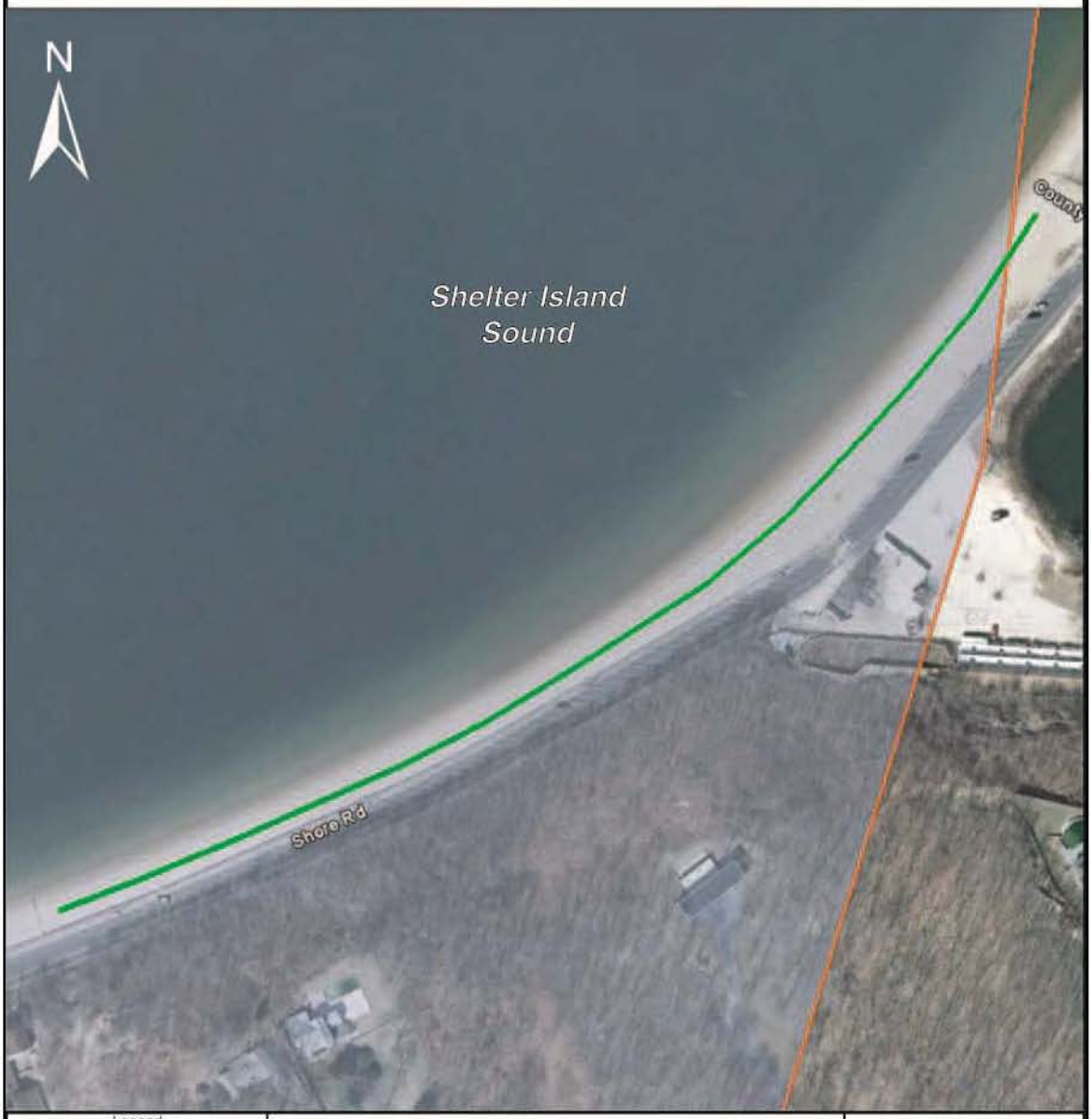
Parcel	DSBL
1	1000099000100016001
2	1000099000100017000
3	1000099000200002000
4	1000099000200003000
5	1000099000200006000
6	1000099000200018001
7	1000099000400001000
8	1000099000400002000
9	1000099000400025000
10	1000099000500001000
11	1000099000200004000

Site 81 Mattituck, NY

Breakwater Park Beach


Site 111 Crescent Beach
Shelter Island, NY
N
Shelter Island
Sound
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
0
750
Feet
Image Source: Google© 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-25-10
File: TO-0024_LIS_111-2.ai

Site 111 Crescent Beach Shelter Island, NY



Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 500
Feet

Image Source: Google© 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_111-3.ai

Site 111 Crescent Beach
Shelter Island, NY

Site Address	Shore Rd., Shelter Island, NY
General Description	Municipal Beach on north side of Shelter Island in a small cove between Jennings Point and Shelter Islands Heights.
Ownership/POC	Town of Shelter Island, NY Garth Griffen, Director Shelter Island Recreation Department (637) 749-0302 ext 109
Zoning	AA Residential
Surrounding Land Use	Beach club; open space/wetland; residential; boat dock on adjacent parcel at west end.
Wetlands	No. Mapped wetlands across road at east end of beach.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted medium to coarse-grained sand with pebbles
Nourishment Length	1,450 ft
Design Berm Width	100 ft
Capacity	23,900 cy
Site Access	Land – West Neck Rd to Shore Rd. Water – North side entrance to Shelter Sound & Southold Bay
Staging Area	Potential staging area in paved lot running the length of the beach between Shore Rd. and the beach.
Additional Considerations	Wood pier at west end of beach (not on parcel but adjacent). Wood revetment between beach and parking lot. Parking area is elevated approximately 2.5 ft above berm. Wetland on parcel behind beach on opposite side of the road; beach club behind beach and across the road.

Site 111 Crescent Beach
Shelter Island, NY

Date: July 12, 2010

Direction: West

Description:

Small dune at west end of beach.

Date: July 12, 2010

Direction: South

Description:

Potential staging in paved lot behind beach. Lot is slightly higher than beach berm, and separated by wooden railing. Beach club with tents in background.

Site 111 Crescent Beach
Shelter Island, NY

Date: July 12, 2010

Direction: West

Description:

Beach profile looking west

Date: July 12, 2010

Direction: East

Description:

Beach profile looking east.

Parcel	DSBL
1	0700013000200006001
2	0700013000200005000
3	0700013000200007001
4	0700014000100011000
5	0700014000100016002
6	0700013000200004000
7	0700013000200003000
8	0700013000200053000
9	0700013000200054000
10	0700013000200002002
11	0700013000200009000
12	0700013000200010000
13	0700013000200011000
14	0700013000200015000
15	0700013000200016000
16	0700013000200019001

Site 111 Shelter Island, NY
Crescent Beach

Site 76 Town Beach Southold, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

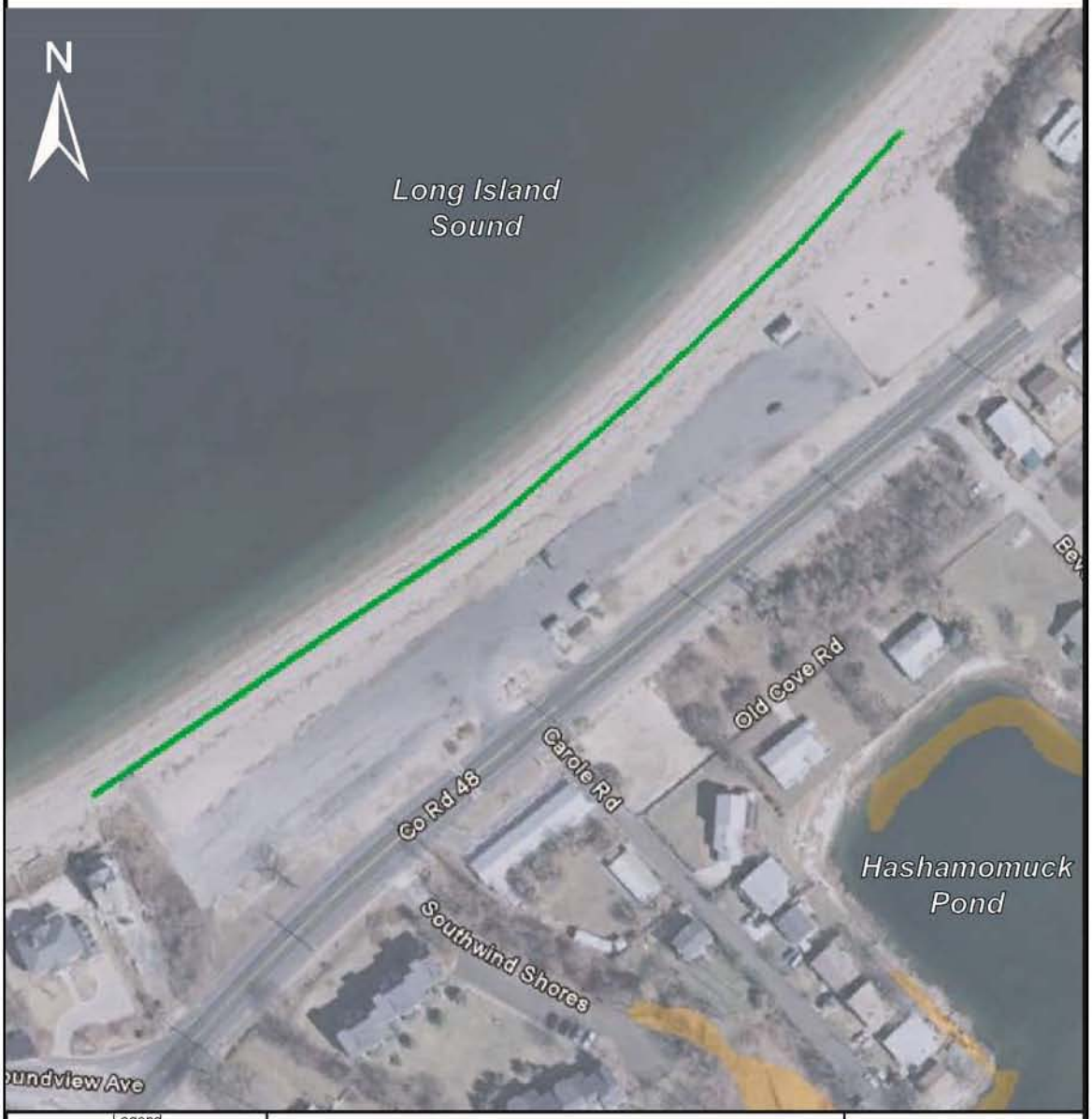
0 500
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_76-2.ai

Site 76 Town Beach Southold, NY



Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 500
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_76-3.ai

Site 76 Town Beach

Southold, NY

Site Address	North Rd. (County Rd. 48), Southold, NY
General Description	Municipal Beach on the north fork of Long Island with direct access to Long Island Sound.
Ownership/POC	Town of Southold, NY Jim McMahon, Director of Public Works (631) 765-1283
Zoning	R-40 Residential low density AA
Surrounding Land Use	Residential properties directly abut the beach to the east and west and across County Rd. 48 to the south.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Poorly sorted coarse-grained sand
Nourishment Length	990 ft
Design Berm Width	99 ft
Capacity	23,200 cy
Site Access	Land – County Rd. 48 Water – LIS
Staging Area	Potential staging area in paved parking lot landward of the beach; access for equipment directly from parking area to beach, or across gravel/dense pack boat ramp at western end of the beach.
Additional Considerations	This area has recently experienced significant erosion which has damaged the seaward edge of the parking lot; nourishment sand was trucked to this area in the early 1990s following Hurricane Bob. The dominant direction of sediment transport is from west to east, although sediment supply to the site from the west is limited due to coastal armoring.

Site 76 Town Beach
Southold, NY

Date: July 12, 2010

Direction: West

Description:

Beach profile showing the steeply sloping foreshore area.

Date: July 12, 2010

Direction: East

Description:

Beach profile showing eastern end of the site with playground equipment and abutting properties beyond.

Site 76 Town Beach
Southold, NY

Date: July 12, 2010

Direction: South

Description:

Boat ramp across western end of the beach composed of gravel and dense pack.

Date: July 12, 2010

Direction: West

Description:

Potential staging for trucks and grading equipment in parking lot at back of beach.

Parcel	DSBL
1	1000052000200001002
2	1000052000200013000
3	1000052000200017000
4	1000051000500004000
5	1000052000200018000
6	1000135000100027000
7	1000135000300001000
8	1000052000100001000
9	1000052000200019000

Site 76 Southold, NY

Town Beach

Site 79 Gull Pond Beach (Norman E. Klipp Park) Southold, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 500
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_79-2.ai

Site 79 Gull Pond Beach (Norman E. Klipp Park) Southold, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Nourishment Area

0 493
Feet

Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-26-10
File: TO-0024_LIS_79-3.ai

Site 79 Gull Pond Beach

Southold, NY

Site Address	Manhanset Ave., Southold, NY
General Description	Municipal Beach located southwest of the entrance to Gull Pond.
Ownership/POC	Town of Southold, NY Jim McMahon, Director of Public Works (631) 765-1283
Zoning	R-40 Residential low density AA
Surrounding Land Use	Primarily residential with two commercial marinas in adjacent harbor to west.
Wetlands	Yes. Mapped wetlands include coastal shoals, bars, and mudflats offshore of the beach; additional mapped wetlands behind beach and dune area located south of Manhanset Ave.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Sediment Type	Moderately well-sorted coarse-grained sand
Nourishment Length	820 ft
Design Berm Width	82 ft
Capacity	14,400 cy
Site Access	Land – Manhanset Ave. Water – Shelter Island Sound or Gull Pond
Staging Area	Potential staging area in paved parking lot landward of main beach; access for equipment directly from parking area to beach.
Additional Considerations	Timber jetty on the south side of Gull Pond entrance forms the northern end of the beach. Small boat ramp from parking area into Gull Pond; parking area is supported with timber bulkhead. Beach area south of Manhanset Ave. is backed by a coastal dune vegetated with beach grass, and a more landward area of salt marsh.

Site 79 Gull Pond Beach
Southold, NY

Date: July 12, 2010

Direction: North

Description:

Beach profile from south end of beach.

Date: July 12, 2010

Direction: South

Description:

Beach profile at southern end of site showing wider area of coastal dunes vegetated with beach grass.

Site 79 Gull Pond Beach
Southold, NY

Date: July 12, 2010

Direction: North

Description:

North end of beach with timber jetties at the entrance to Gull Pond.

Date: July 12, 2010

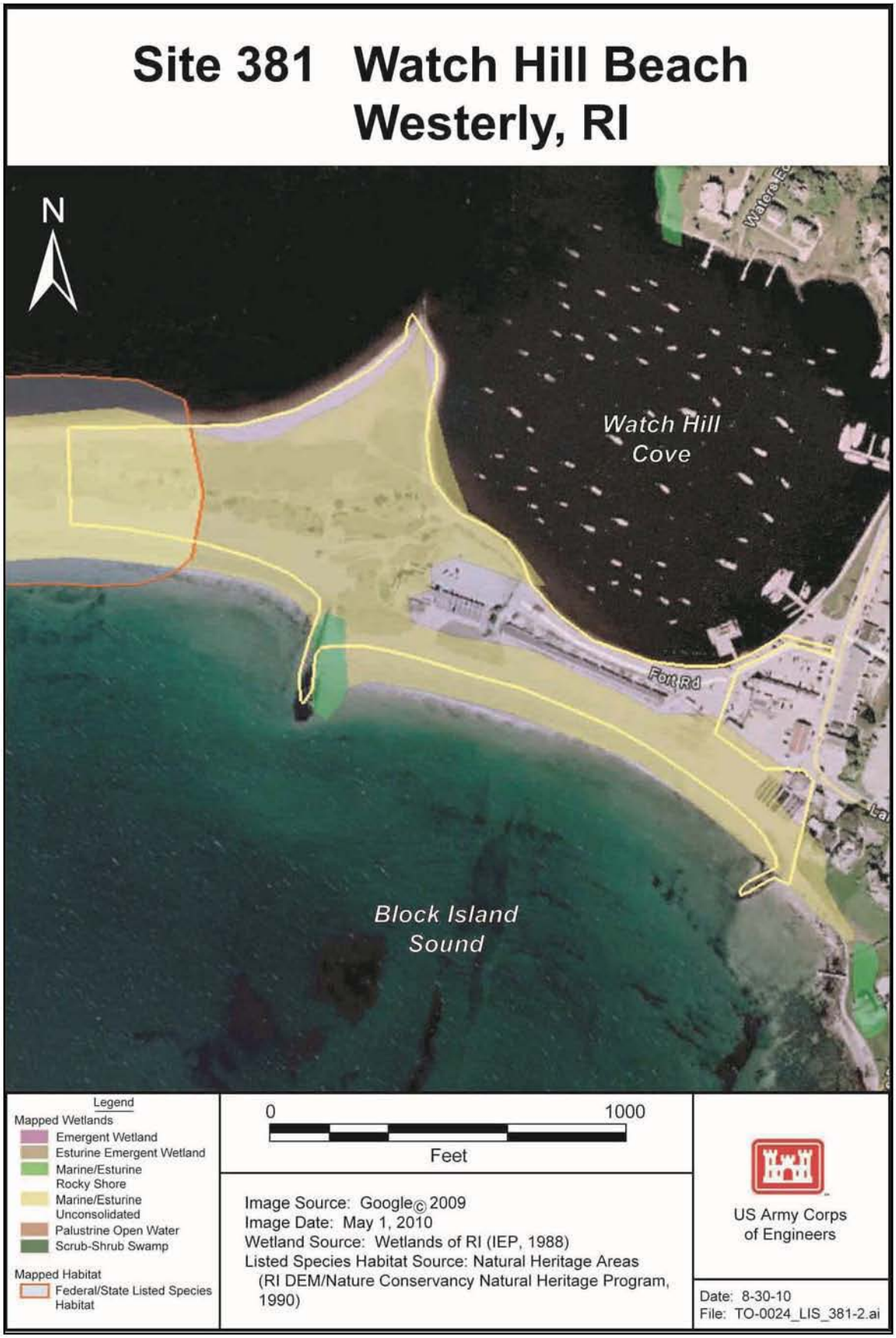
Direction: Southwest

Description:

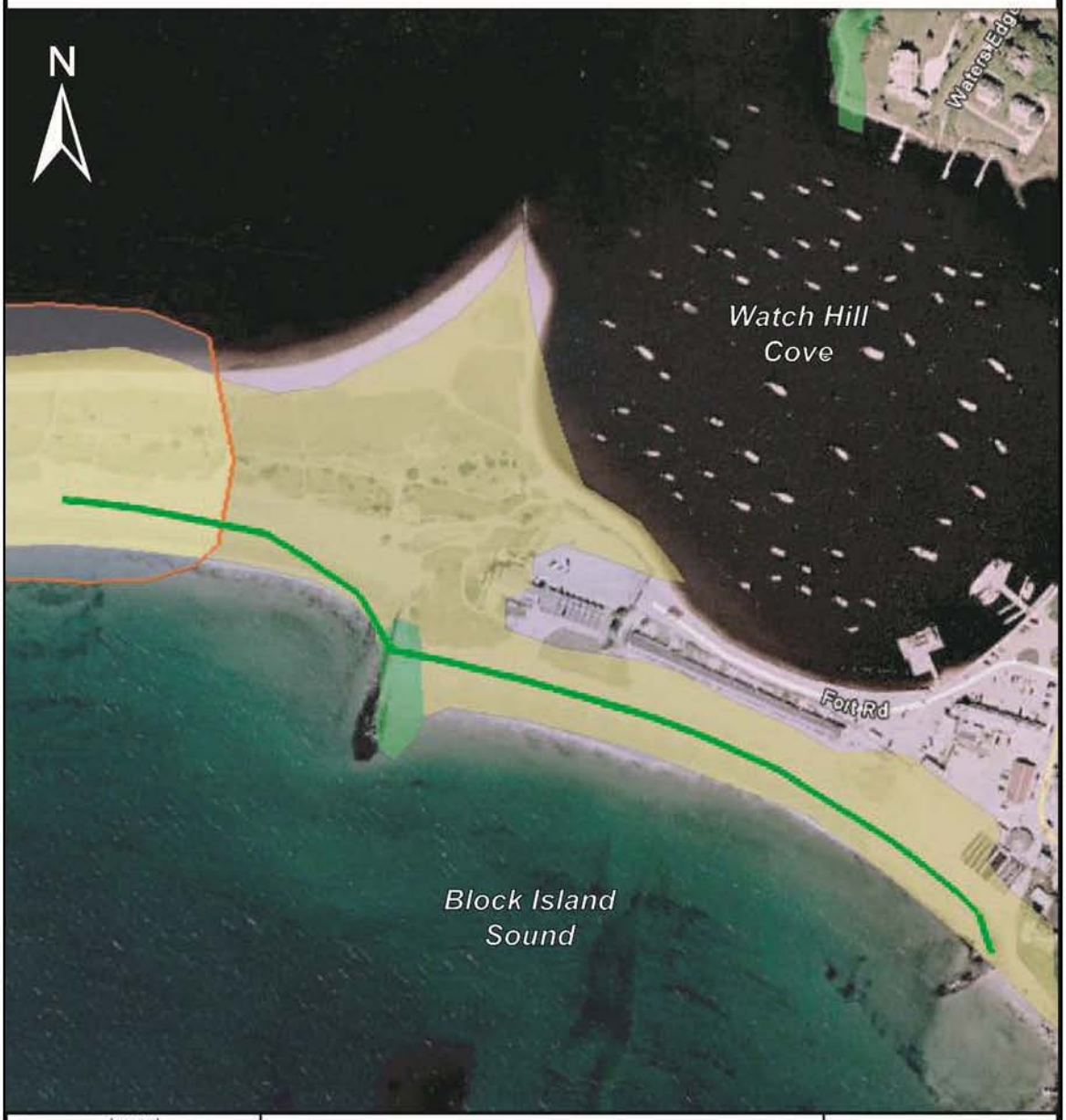
Potential staging for trucks and grading equipment in parking lot at back of beach.

Parcel	DSBL
1	1000043000500017000
2	1000035000600030000
3	1000043000500001000
4	1000043000500002000
5	1000043000500003000
6	1000043000200006000

Site 79 Southold, NY
Gull Pond Beach


Site 381 Watch Hill Beach
Westerly, RI
N
Watch Hill Cove
Fort Rd
Block Island Sound
Legend
Mapped Wetlands
Emergent Wetland
Esturine Emergent Wetland
Marine/Esturine Rocky Shore
Marine/Esturine Unconsolidated
Palustrine Open Water
Scrub-Shrub Swamp
Mapped Habitat
Federal/State Listed Species Habitat
0
1000
Feet
Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)
US Army Corps of Engineers
Date: 8-30-10
File: TO-0024_LIS_381-2.ai

Site 381 Watch Hill Beach
Westerly, RI



Legend

Mapped Wetlands
- Emergent Wetland
- Esturine Emergent Wetland
- Marine/Esturine Rocky Shore
- Marine/Esturine Unconsolidated
- Palustrine Open Water
- Scrub-Shrub Swamp

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 1000
Feet

Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)

US Army Corps of Engineers

Date: 8-30-10
File: TO-0024_LIS_381-3.ai

Site 381 Watch Hill Beach

Westerly, RI

Site Address	151 Bay St., Westerly, RI
General Description	Barrier beach between Block Island Sound and Watch Hill Cove. The Watch Hill Beach parcel is a small Municipal Beach on the Block Island Sound Side.
Ownership/POC	Watch Hill Fire District, Town of Westerly, RI Paul Duffy, Recreation Director (401) 348-2784
Zoning	SCWH Watch Hill zoning district
Surrounding Land Use	Residential and commercial (restaurants, shops, beach club) to east; open space to west.
Wetlands	Yes. The parcel is mapped as unconsolidated sandy shoreline, with rocky shoreline at the groin.
State and Federally Listed Species Habitat	No. Habitat for terns and plovers occurs on adjacent parcel (Nappatree Point Beach).
Sediment Type	Well sorted medium to fine-grained sand
Nourishment Length	2,290 ft
Design Berm Width	100 ft
Capacity	22,600 cy
Site Access	Land – Bay St. Water – Block Island Sound
Staging Area	Potential staging area in paved lot behind beach.
Additional Considerations	Erosion evident on west sides of both groins on parcel, indicating sediment transport east to west. Adjacent parcel, Nappatree Point beach, was also evaluated and shows similar sediment transport pattern. Vegetated dunes at west side of parcel. Cultural resources present.

Site 381 Watch Hill Beach
Westerly, RI

Date: July 15, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 15, 2010

Direction: West

Description:

Beach club and private beach adjacent to public area.

Site 381 Watch Hill Beach
Westerly, RI

Date: July 15, 2010

Direction: West

Description:

Dune at back of beach.

Date: July 15, 2010

Direction: Southeast

Description:

Potential staging area in paved lot behind beach.

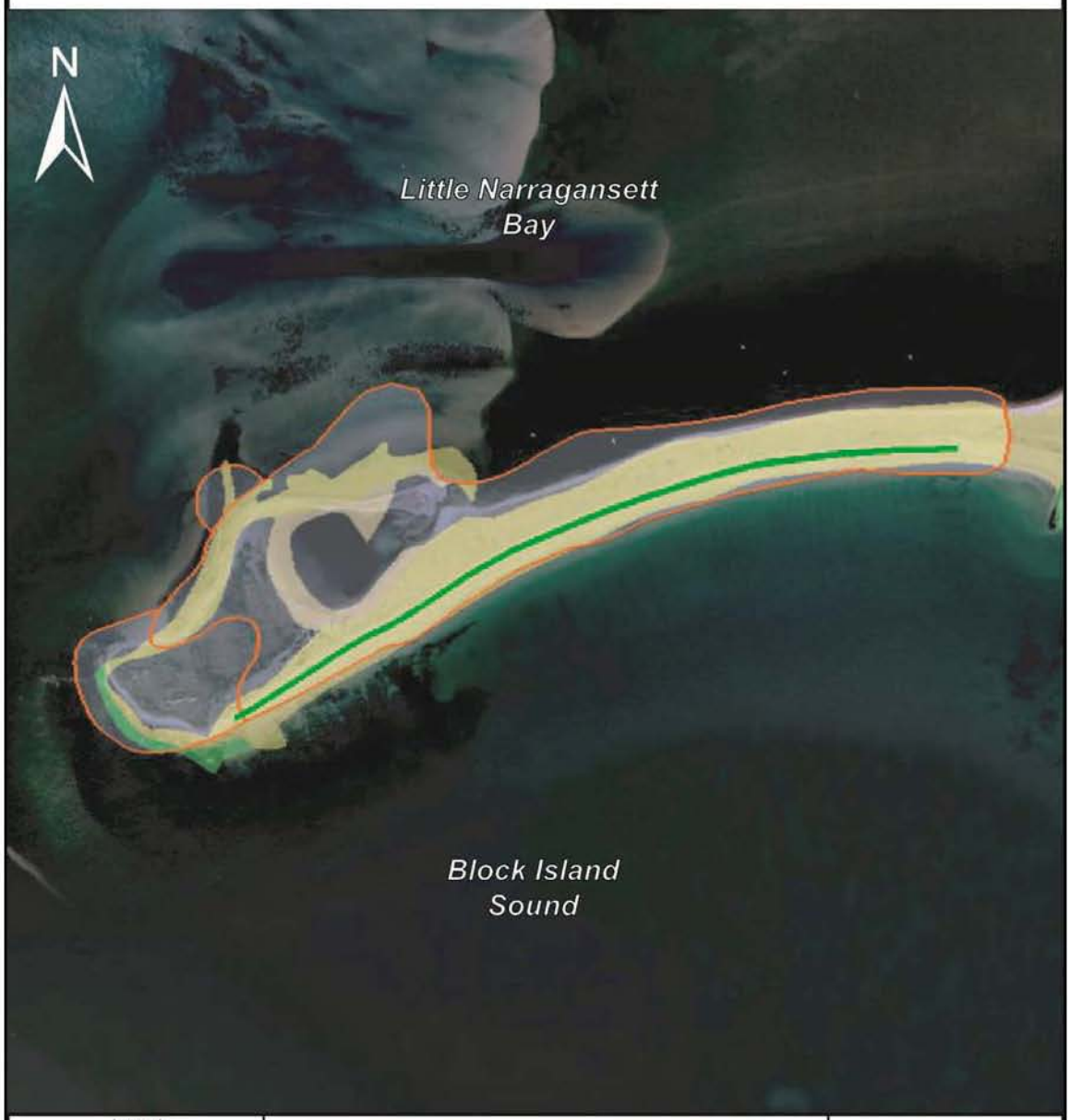
Parcel	MBL
1	178-001
2	185-034
3	185-033
4	185-032A-1
5	185-030
6	185-028
7	185-02C-1
8	185-02H

Site 381 Westerly, RI

Watch Hill Beach

Site 382 Napatree Point Beach Westerly, RI

Site 382 Napatree Point Beach Westerly, RI



Legend

Mapped Wetlands
- Emergent Wetland
- Esturine Emergent Wetland
- Marine/Esturine Rocky Shore
- Marine/Esturine Unconsolidated
- Palustrine Open Water
- Scrub-Shrub Swamp

Mapped Habitat
- Federal/State Listed Species Habitat
- Nourishment Area

0 3000
Feet

Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)

US Army Corps of Engineers

Date: 8-31-10
File: TO-0024_LIS_382-3.ai

Site 382 Nappatree Point Beach

Westerly, RI

Site Address	End of Fort Rd., Westerly, RI
General Description	Barrier beach between Block Island Sound and Little Narragansett Bay. The Nappatree Point parcel includes most of the length of the barrier beach and the terminal end of the spit on the west side.
Ownership/POC	Watch Hill Fire District, Town of Westerly, RI Paul Duffy, Recreation Department Director (401) 348-2784
Zoning	Open space/recreation
Surrounding Land Use	Residential and commercial (restaurants, shops, beach club) to east.
Wetlands	Yes. The parcel is mapped as unconsolidated sandy shoreline, with rocky shoreline at the end of the spit.
State and Federally Listed Species Habitat	Yes. Mapped habitat on site. Plovers and terns observed on site visit.
Sediment Type	Well sorted medium to fine-grained sand
Nourishment Length	5,300 ft
Design Berm Width	100 ft
Capacity	68,100 cy
Site Access	Land – Fort Rd. Water – Block Island Sound
Staging Area	Potential staging area in paved lot near marina (restricted access to beach – see below).
Additional Considerations	Erosion evident along beach at base of dunes. Sand accreting at west end, on the north side (Little Narragansett Bay side) where dune is extended and heavily vegetated. Vegetated dunes along barrier beach with enclosures for terns, plovers. Potential staging area in small paved lot in back of beach at east end. This lot has restricted access to the beach however. Walking access is through dune on east side of parcel. No vehicular traffic is allowed. Cultural resources present.

Site 382 Nappatree Point Beach
Westerly, RI

Date: July 15, 2010

Direction: West

Description:

Beach profile looking west.

Date: July 15, 2010

Direction: East

Description:

Beach profile looking east.

Site 382 Nappatree Point Beach
Westerly, RI

Date: July 15, 2010

Direction: Southwest

Description:

Access to beach via walking path through dunes.

Date: July 15, 2010

Direction: West

Description:

Plover and tern habitat areas.

Parcel	MBL
1	177-1
2	177-2
3	177-3
4	177-4
5	177-5
6	177-6
7	177-7
8	177-8
9	178-2
10	178-3
11	178-4
12	178-5
13	178-6
14	178-7
15	178-8
16	178-9
17	178-10
18	178-11
19	178-12
20	185-031

Site 382 Westerly, RI

Napatree Point Beach

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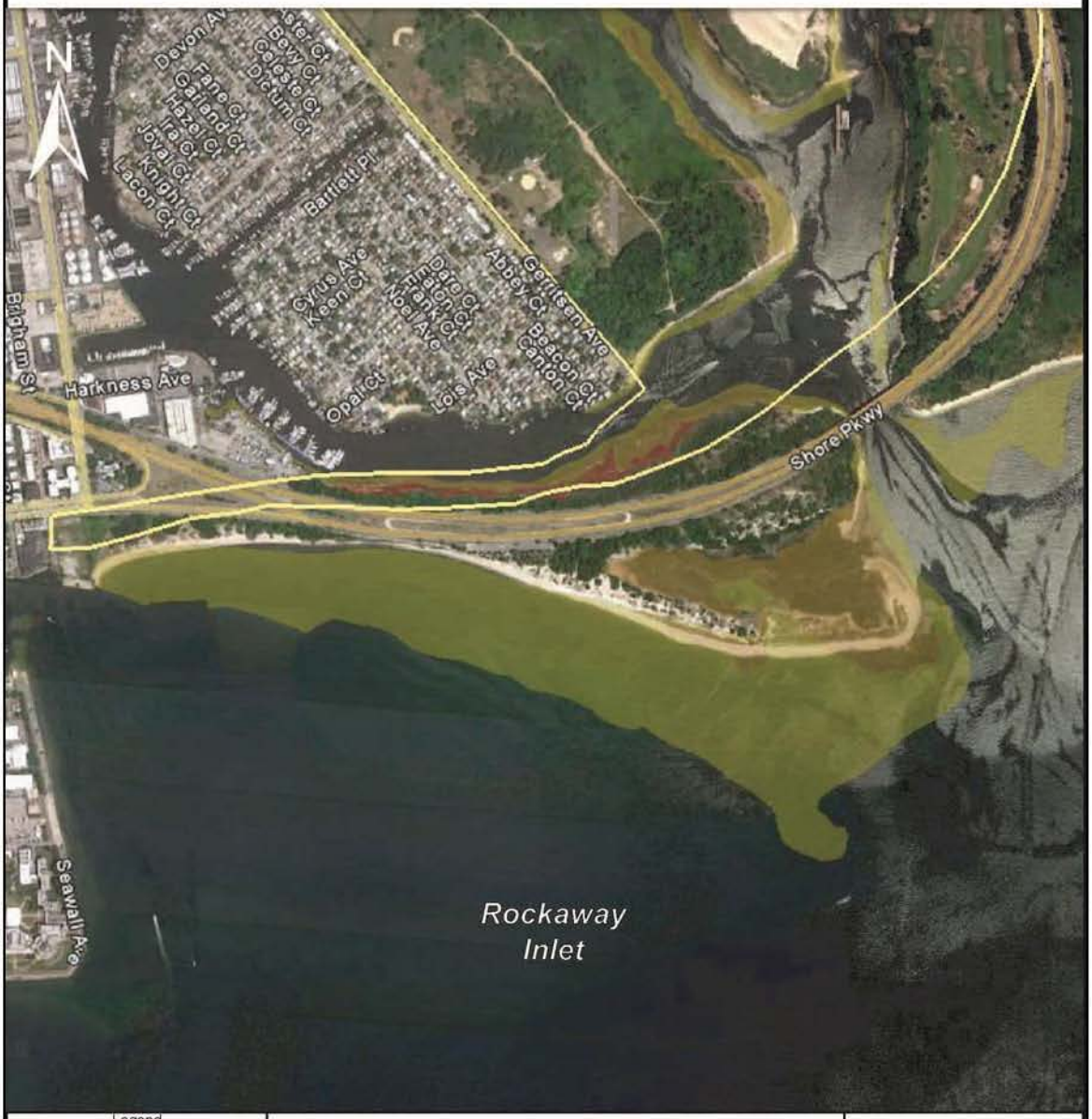
Site 427 Plumb Beach Brooklyn, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 3000
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_427-2.ai

Site 427 Plumb Beach

Brooklyn, NY

Site Address	Shore Parkway (east of Knapp St.), Brooklyn, NY
General Description	Habitat Restoration site, as well as State/City Beach, and Federal Shore Protection Project located on the north side of Rockaway Inlet between Sheepshead Bay and Gerritson Inlet. Plumb Beach is peripheral to Jamaica Bay, and thus included in the overall bay wide habitat restoration effort because of the opportunities for enhancing ecosystem function in conjunction with the shore protection/beach nourishment project.
Ownership/POC	National Park Service – Gateway National Recreation Area and NYC Department of Parks and Recreation Dan Falt, USACE Project POC (917)790-8614
Agencies/Groups Involved in Project	National Park Service – Gateway National Recreation Area New York City Department of Parks and Recreation New York State Department of Environmental Conservation New York Department of State New York City Department of Transportation
Zoning	Not on local zoning maps – part of Marine Park.
Surrounding Land Use	Belt Parkway; Rockaway Inlet; Residential to the west.
Existing Condition	The beach is severely eroded. During spring 2010, the bicycle path adjacent to beach was lost due to erosion and the road is now threatened.
Prior Condition	Beach has been wider in the past; erosion is a continuing problem and a long-term solution is in the planning phase.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Species of Concern Expected to Benefit From Project	Horseshoe crabs; beach is a mating area for *Limulus*. Shorebirds, turtles and plants. Shorebirds that nest in dune or beach berm areas would benefit from dune and beach restoration.
Staging Area	Parking lot adjacent to beach.
Capacity	47,700 cy (estimate of nourishment calculated as part of this study); USACE project design volume not available at time of final report.
Additional Considerations	Severe storm in March 2010 eroded the bicycle path adjacent to the beach, and came within 25 feet of the Belt Parkway. This is an important emergency exit route for New York City, and a temporary repair using sand bags was implemented to prevent further loss. An interagency team is working on a comprehensive solution that will afford long-term protection for the infrastructure and maintain/enhance the natural resources and recreation opportunities. The site could provide habitat restoration opportunities that complement the larger set of Jamaica Bay area restoration projects.

Site 427 Plumb Beach
Brooklyn, NY

Date: August 3, 2010

Direction: West

Description:

Current condition. Beach severely eroded and temporary sand bags have been placed to protect road and parking area.

Date: August 3, 2010

Direction: East

Description:

Beach profile looking east, from a spot on the beach adjacent to (just east of) the most severe erosion.

Site 427 Plumb Beach
Brooklyn, NY

Date: August 3, 2010

Direction: West

Description:

Most severely eroded area, showing freeway in background at right.

Date: August 3, 2010

Direction: West

Description:

Potential staging area in paved lot behind beach.

Site 427 Brooklyn, NY

Plumb Beach

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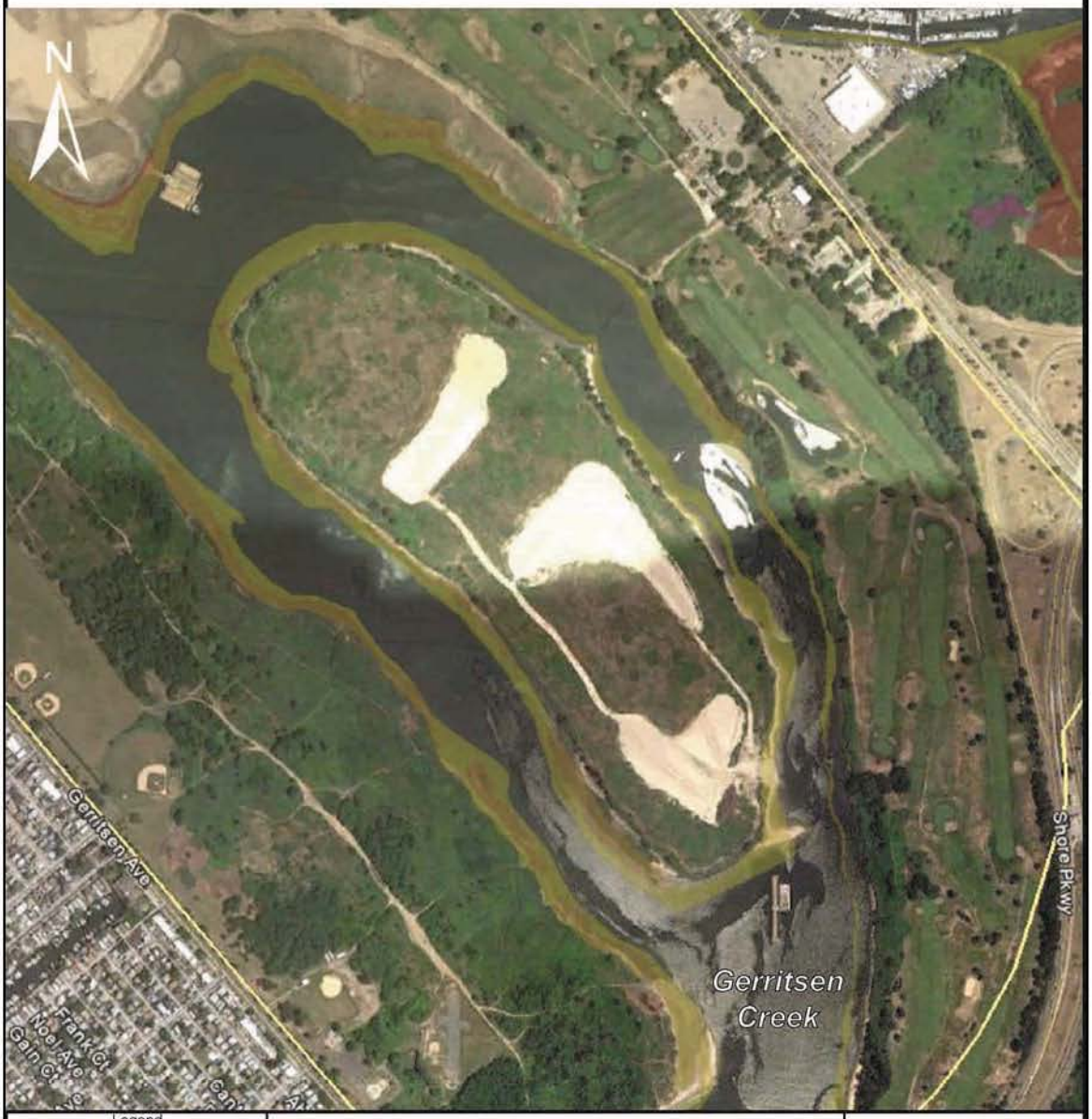
Site 430 White Island Brooklyn, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 2000
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_430-2.ai

Site 430 White Island Habitat Restoration

Brooklyn, NY

Site Address	Jamaica Bay near confluence of Gerritsen Creek and Mill Creek
General Description	White Island is located in western Jamaica Bay near the entrance to Gerritsen Creek. Habitat restoration is aimed at restoring grassland habitat, once common in the region but largely lost due to development. A second objective is to stabilize the edges of the island to ensure that waste material, previously disposed of on the island, will not breach into surrounding creeks. The restoration project is underway. Material has been placed onsite and plantings are scheduled to take place in 2010.
Ownership/POC	National Park Service – Gateway National Park New York City Department of Parks and Recreation Dan Falt, USACE Project POC (917)790-8614
Agencies/Groups Involved in Project	National Park Service – Gateway National Recreation Area New York City Department of Parks and Recreation New York State Department of Environmental Conservation US Fish and Wildlife Service National Marine Fisheries Service New York/New Jersey Harbor Estuary Program North American Waterfowl Management Plan US Environmental Protection Agency US Army Corps of Engineers
Zoning	Not zoned; park land.
Surrounding Land Use	Urban/industrial; residential; park land; former commercial airport (Floyd Bennett Field) to the southeast.
Wetlands	Yes. Mapped wetlands are located around the edges of the island.
Existing Condition	Currently, White Island is undergoing restoration. Dredged material has been placed onsite and plantings are scheduled for this year.
Prior Condition	Salt marsh and grassland habitats existed early, but were degraded due to industrial development and associated dredge/fill activity. White Island was previously used for waste disposal. The restoration project is intended to stabilize the area so that waste material does not move out into the creeks.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers occurs entire site.

Species of Concern Expected to Benefit From Project	Several grassland bird species are expected to benefit from this project, including the Upland Sandpiper, Short-Eared Owl, Vesper Sparrow, Grasshopper Sparrow, Bobolink, Savannah Sparrow, Henslow's Sparrow, Northern Harrier, Eastern Meadowlark, and Horned Lark (City of NY Parks and Recreation, White Island Fact Sheet). White Island has not supported large nesting populations of water birds in the past, but it is thought to have suitable habitat for these species (Hudson-Raritan Comprehensive Restoration Plan). Therefore the restoration should also benefit water birds, including ibises, herons, and egrets.
Staging area	Barges are required for transport of material as the sites are offshore islands.
Capacity	No additional capacity at this time. Material has been placed.
Additional Considerations	The restoration project involved clearing vegetation above the 10 ft contour line, as well as removing exotic species, and capping/covering the island with clean sand. Plantings will promote four types of habitat: tall grass meadow, short grass meadow, maritime grassland, and vegetated dunes. A site tour of White Island was not possible during Summer 2010, so no photographs of the site were obtained.

Site 430 Brooklyn, NY
White Island

Site 431 Gerritsen Creek Brooklyn, NY

Site 431 Gerritsen Creek Habitat Restoration

Brooklyn, NY

Site Address	Jamaica Bay near confluence of Gerritsen Creek and Mill Creek
General Description	The Gerritsen Creek habitat restoration project is located in western Jamaica Bay near entrance to Mill Creek. The objectives of the project are to ameliorate adverse impacts of past filling activities related to construction and maintenance of navigation channels in Jamaica Bay, to restore salt marsh and coastal/maritime grassland; improve tidal flushing and water quality, and generally to enhance ecosystem function. Project related placement of fill has been completed. Approximately 30 acres of salt marsh were restored and 27,000 cy of dredged material was placed on the site in 2009.
Ownership/POC	National Park Service – Gateway National Park New York City Department of Parks and Recreation Dan Falt, USACE Project POC (917)790-8614
Agencies/Groups Involved in Project	National Park Service – Gateway National Recreation Area New York City Department of Parks and Recreation New York State Department of Environmental Conservation US Fish and Wildlife Service National Marine Fisheries Service New York/New Jersey Harbor Estuary Program North American Waterfowl Management Plan US Environmental Protection Agency US Army Corps of Engineers
Zoning	Not zoned; park land.
Surrounding Land Use	Urban/industrial; residential; park land; former commercial airport (Floyd Bennett Field) to the southeast.
Wetlands	Yes. Mapped wetlands are located around the edges of the island.
Existing Condition	The restoration project is on-going. Recently, fill was placed, and the site was planted with salt marsh and coastal grassland species. *Phragmites* were removed and tidal exchange has been enhanced.
Prior Condition	Historically the area was primarily a salt marsh, part of an extensive wetland area throughout Jamaica Bay. It was renowned for its abundance and diversity of shellfish, and importance as a nursery and breeding ground for various fish species. Over the past century the site was altered by dredge and fill activity related to construction and maintenance of the Jamaica Bay navigation channel. Certain areas were also used as a landfill for nonhazardous waste. The result was a reduction in salt marsh area and habitat degradation. The invasive common reed *Phragmites australis* came to dominate the site, and coastal processes and watercraft activity have caused erosion and loss of the native salt marsh cordgrass *Spartina alterniflora.*

State and Federally Listed Species Habitat	Yes. Mapped habitat covers occurs entire site.
Species of Concern Expected to Benefit From Project	Various species are expected to benefit, particularly migratory birds (shorebirds, raptors, waterfowl, and land birds) and wading birds (egrets, ibises, and herons). Other waterfowl species known to occur in the area include buffleheads (*Bucephala albeola*), red-breasted mergansers (*Mergusserrator*), and greater scaup (*Aythya marila*); upland species including marsh wrens (*Cistothorous palustris*), sharp-tailed sparrows (*Ammodramus caudactus*) will also benefit. Reptiles known to occur in the area include the diamondback terrapin (*Malaclemys terrapin*) and brown snake (*Storeria dekayi*).
Staging Area	Barges. Material was offloaded dry from a barge.
Capacity	No additional capacity at this time. Material has been placed.
Additional Considerations	For this project, dredged material was transported dry to the site on barges, and offloaded via backhoe. Other projects have involved pumping material to the site as a slurry. The National Park Service requires that dredged material must be clean, and 95% sand for these projects.

Site 431 Gerritsen Creek Habitat Restoration
Brooklyn, NY

Date: August 3, 2010

Direction: East

Description:

Gerritsen Creek restoration area.

Date: August 3, 2010

Direction: East

Description:

Restoration area close-up.

Site 431 Gerritsen Creek Habitat Restoration
Brooklyn, NY

Date: August 3, 2010

Direction: Northeast

Description:

View of adjacent wetland area. Turtle in foreground (on rock at center) illustrates the habitat value of the region.

Date: August 3, 2010

Direction: East

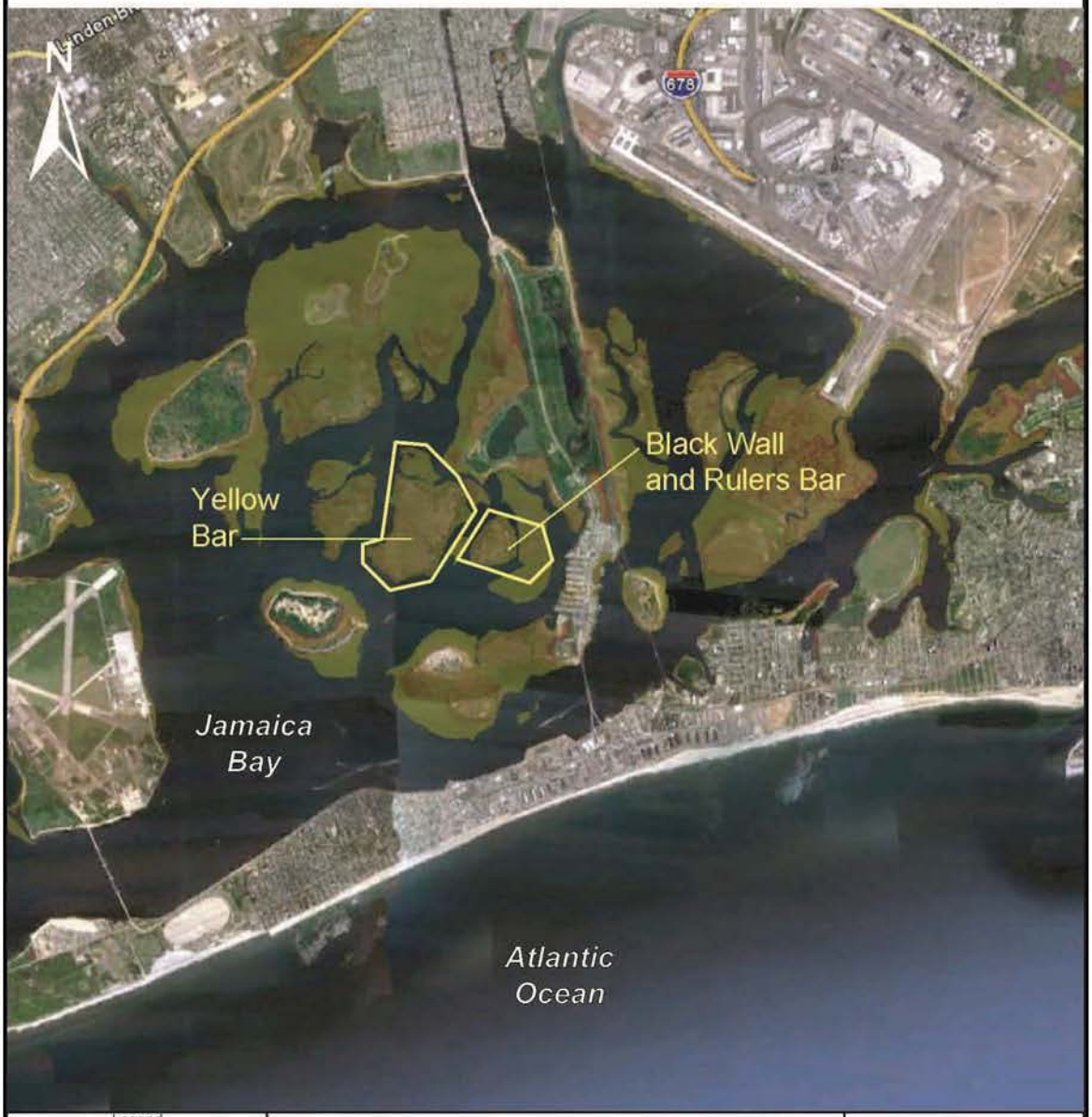
Description:

Restoration area in with surrounding wetland and water body.

Site 431 Brooklyn, NY

Gerritsen Creek

Site 429 Jamaica Bay Marsh Islands Jamaica Bay, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 3
Miles

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 9-10-10
File: TO-0024_LIS_429-2.ai

Site 429 Jamaica Bay Marsh Islands Habitat Restoration

Jamaica Bay, NY

Site Address	Islands in Jamaica Bay, NY
General Description	The Jamaica Bay islands are a series of salt marsh islands in Jamaica Bay, a 26-mile embayment situated in the Boroughs of Brooklyn and Queens. A number of island restoration projects are underway or in the planning phase. Project objectives include restoring saltwater wetlands and improving habitat quality.
Ownership/POC	National Park Service – Gateway National Park New York City Department of Parks and Recreation Dan Falt, USACE Project POC (917)790-8614
Agencies/Groups Involved in Restoration	National Park Service – Gateway National Recreation Area New York City Department of Parks and Recreation New York State Department of Environmental Conservation US Fish and Wildlife Service National Marine Fisheries Service New York/New Jersey Harbor Estuary Program North American Waterfowl Management Plan US Environmental Protection Agency US Army Corps of Engineers
Zoning	Not zoned – park land.
Surrounding Land Use	Urban/industrial; residential; park land.
Wetlands	Yes. Mapped wetlands comprise the site and are primarily intertidal marsh.
Existing Condition	The aerial extent and habitat quality of the Jamaica Bay islands has declined in recent years. Over 2,000 acres of marsh land has disappeared from Jamaica Bay over the last century, with the annual rate of loss accelerating in recent years. Estimated annual losses were approximately 10-20 acres/yr between 1950 and 1990, and are now approximately 33-44 acres/yr (Hudson-Raritan Estuary Comprehensive Plan). Habitat quality has degraded due to dredge/fill activity, declining water quality, invasive species, and a variety of other factors. Certain projects (Elders Point East, Elders Point West) have been completed, and habitat quality is expected to improve as these restoration activities continue. The next sites to be restored include Yellow Bar Island, Black Wall, and Rulers Bar. These projects involve rebuilding the islands through beneficial re-use of dredged materials.
Prior Condition	Jamaica Bay was characterized by extensive aquatic and wetland habitats, as well as maritime forests and grasslands. These were interspersed with beach and dune complexes forming a mosaic of coastal habitats. Though historically abundant, the maritime forests, salt marshes, and grasslands have declined in both aerial extent and habitat quality.

State and Federally Listed Species Habitat	Yes. Mapped habitat covers Jamaica Bay.
Species of Concern Expected to Benefit From Project	Migratory birds (shorebirds, raptors, waterfowl, and land birds) and long-legged wading birds (ibises, herons, and egrets). Wading bird species found in the Jamaica Bay area during a 2004 bird count include Black-Crowned Night Heron, Glossy Ibis, Great Egret, Snowy Egret, Cattle Egret, Light Blue Heron, Yellow-Crowned Night Heron, Green-Backed Heron, Yellow-crowned Heron, Tricolored Heron (Gelb, 2004).
Staging Area	Barges are required for transport of material as the sites are offshore islands. Some projects have involved pumping a slurry of material to the site; others have brought material in dry.
Capacity(cy)	Next sites for restoration are Yellow Bar, Black Wall, and Rulers Bar. Each project will require 200,000 – 250,000 cy, yielding a total capacity of 600,000-750,000 cy in the near future. Overall capacity is likely greater, as the suite of Jamaica Bay Marsh island projects potentially could create up to 150 acres of salt marsh through beneficial uses of dredged material.
Additional Considerations	National Park Service requires that dredged material must be clean, and 95% sand for these projects. The offshore nature of the islands presents challenges in getting material to the sites, and in staging/equipment use on site. There are no time of year restrictions on placing the material, but if material comes directly from dredging projects, then dredging windows would apply.

Site 429 Jamaica Bay Islands Habitat Restoration
Jamaica Bay, NY

Date: August 3, 2010

Direction: Southwest

Description:

View of Elder's Point from mainland.

Date: August 3, 2010

Direction: West

Description:

View of marsh islands in Black Wall/Rulers Bar area.

Site 429 Jamaica Bay Islands Habitat Restoration
Jamaica Bay, NY

Date: August 3, 2010

Direction: West

Description:

View of marsh islands showing recreational boating/land use.

Date: August 3, 2010

Direction: West

Description:

View of marsh islands near Elders Point showing ongoing restoration work (note orange fencing).

Site 429 Jamaica Bay, NY

Jamaica Bay Marsh Islands

Site 251 Manchester Landfill
Manchester, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State Listed Species Habitat

0 2500
Feet

Image Source: Google© 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_251-2.ai

Site 251 Manchester Landfill

Manchester, CT

Site Address	1 Landfill Way/236 Olcott St., Manchester, CT
General Description	Municipal landfill.
Ownership/POC	Town of Manchester Joe Lentini, Landfill Superintendent (860) 647-3234
Zoning	Industrial
Surrounding Land Use	Residential to the south and east; light industry to the southwest; open space to the north; Hokum River runs along west edge of site.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Types of Material Accepted	Municipal solid waste, construction/demolition, recyclables.
Acceptability of Dredged Material, and Type of Use	Dredged material acceptable under Special Wastes program. Potential uses for dredged material include daily cover and capping. Can accept fine-grained dredged material for daily cover; fines could also be used for capping, but would likely need to be mixed on-site with loam to support vegetation.
Tipping Fees	$83.00/ton for dredged material.
Landfill Capacity and/or Design Years	Total capacity of the site is 1.2 million cy. Active life expected through 2021 to 2025, depending on economic activity and waste generation rates in the region.
Site Access	Landfill Way
Restrictions on Time of Day or Year	Hours of operation Mon.-Sat. 7:15 to 14:30.
Additional Considerations	Dredged material would be handled under Special Waste program, which accepts septic waste, fines, etc. Special Waste program may allow disposal of contaminated dredged material, following application and acceptance of a Special Waste Disposal Authorization. At present daily volume is down due to sluggish economy, therefore planned closure date of 2021 could be extended to 2025.

Site 251 Manchester Landfill
Manchester, CT

Date: July 14, 2010

Direction: North

Description:

Access road to active landfill area.

Date: July 14, 2010

Direction: Northeast

Description:

Active disposal area.

Site 251 Manchester Landfill
Manchester, CT

Date: July 14, 2010

Direction: West

Description:

Active recycling area.

Date: July 14, 2010

Direction: South

Description:

View of recycling area from a high point on the site.

Parcel	MBL	Parcel	MBL
1	519000089	22	367000147
2	519000077	23	396000951
3	519000039	24	367000165
4	396000844	25	367000135
5	367000110	26	367000159
6	519000281	27	367000073
7	396000960	28	396000847
8	396000810	29	367000079
9	519000205	30	367000085
10	519000147R	31	367000119
11	519000053	32	367000151
12	519000057	33	367000055
13	367000010	34	367000061
14	396000972	35	367000067
15	430000325	36	367000125
16	519000155	37	367000131
17	519000271	38	367000155
18	519000011	39	367000175
19	519000151	40	430000180
20	396000864	41	430000250
21	367000049		

Site 251 Manchester, CT

Active Landfill

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Site 272 Windsor-Bloomfield Landfill
Windsor, CT

Legend

Mapped Wetlands
Tidal Wetland

Mapped Habitat
Federal/State
Listed Species
Habitat

0 2000
Feet

Image Source: Google©2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)

US Army Corps
of Engineers

Date: 8-24-10
File: TO-0024_LIS_272-2.ai

Site 272 Windsor-Bloomfield Landfill

Windsor, CT

Site Address	50 and 60 Huckleberry Rd., Windsor, CT.
General Description	Municipal landfill. Small facility that takes material from Windsor and Bloomfield, as well as businesses in surrounding area.
Ownership/POC	Town of Windsor Mark Goosens, Solid Waste Manager (860) 285-1832
Zoning	NZ Public and Quasi-public; AG Agricultural
Surrounding Land Use	Residential to the east; open space/public park land to the north; light industrial to the west (Combustion Engineering Co. in process of re-development at an old nuclear facility that has been remediated); Farmington River to the west.
Wetlands	Yes. Wetlands identified near northern edge of parcel, but not in landfill area.
State and Federally Listed Species Habitat	Yes. Mapped habitat on the north side of the site, and at the northwest corner of the active landfill area.
Types of Material Accepted	Municipal solid waste, recyclables, bulky waste.
Acceptability of Dredged Material, and Type of Use	Dredged material may be acceptable. Dewatered material could potentially be used for final cover on closed areas. Landfill is set to close within a few years and will need final cover rich in organic matter for planting vegetative cover.
Tipping Fees	$65/ton for construction/demolition (bulky waste). $68/ton for municipal solid waste.
Landfill Capacity and/or Design Years	Rough estimate of requirement for final cover - 40,000 cy. Current total capacity estimated at approximately 160,000 cy. Landfill is set to close in 2013, though exact closure date depends on economic activity and amount of material placed at the site.
Site Access	Huckleberry Rd. Paved road with no restrictions to truck traffic. This road runs through a neighborhood but there are no restrictions and the solid waste manager reports no problems with homeowners.
Restrictions on Time of Day or Year	Hours of operation Mon.-Fri. 8:00 to 15:30. Not open holidays.
Additional Considerations	Material would need to go through chemical and physical testing to ensure it is clean and appropriate for final cover. Landfill will close some time during the next few years and will need final cover. If clean, dewatered material is available it may be appropriate as final cover. The post-closure plan is for a park. Once closed and capped, the landfill will connect with existing parkland on the adjacent parcel. Landfill has 'finger-like cells running perpendicular to general direction of active cells to create interesting topography. Closure date is 2012-2013, depending on the economy.

Site 272 Windsor-Bloomfield Landfill
Windsor, CT

Date: July 28, 2010

Direction: West

Description:

Current use of site and active disposal area.

Date: July 28, 2010

Direction: South

Description:

View from access road. Active site in background; closed cell in foreground. When landfill closes, final cover will be applied and site will tie in with walking trail/recreation area adjacent to site.

Site 272 Windsor-Bloomfield Landfill
Windsor, CT

Date: July 28, 2010

Direction: North

Description:

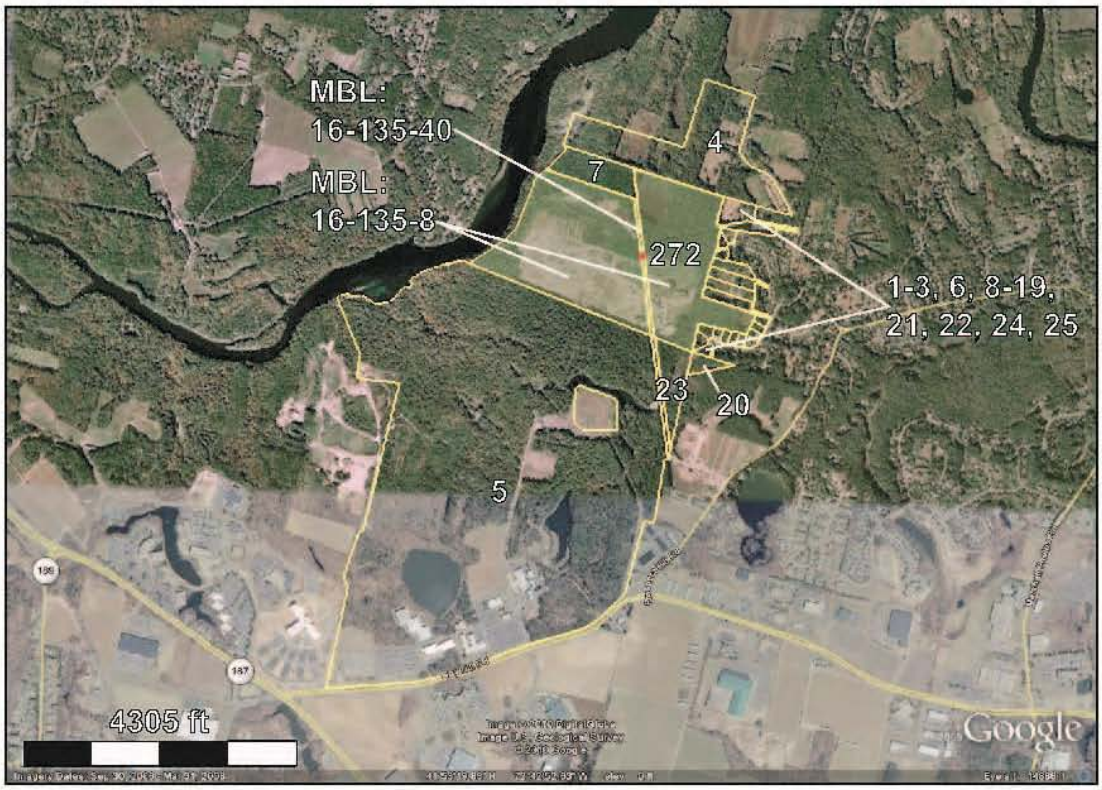
Edge of site. When closed, the landfill area will be vegetated, and will connect with open space on adjacent parcel. Walking trails may be constructed on site.

Date: July 28, 2010

Direction: East

Description:

Access road at top of site. Compost area at right.



Parcel	MBL	Parcel	MBL
1	16-135-200	13	16-135-0
2	16-135-456	14	16-135-155
3	16-135-440	15	16-135-444
4	15-135-22	16	16-135-452
5	12-142-12	17	16-135-448
6	16-135-152	18	16-135-418
7	10-135-10	19	16-135-426
8	16-135-410	20	16-135-447
9	16-135-414	21	16-135-204
10	16-135-20	22	16-135-208
11	16-135-20	23	12-142-12
12	16-135-156	24	16-135-436
		25	16-135-212

Site 272 Windsor, CT

Active Landfill

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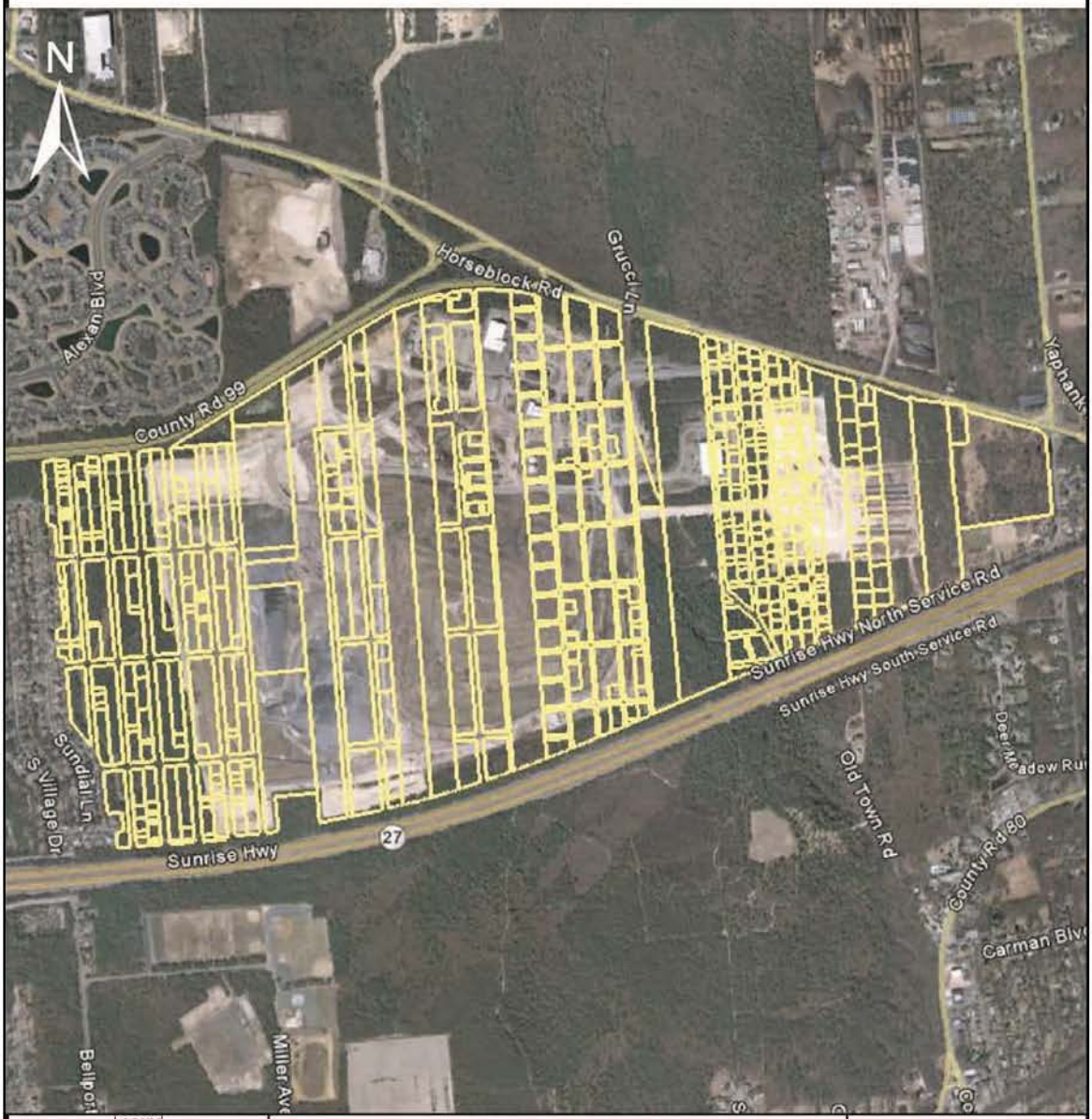
Site 61 Town of Brookhaven Landfill
Brookhaven, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat

0 3500
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_61-2.ai

Site 61 Brookhaven Landfill

Brookhaven, NY

Site Address	350 Horseblock Rd., Brookhaven, NY
General Description	Municipal landfill and recycling facility.
Ownership/POC	Town of Brookhaven Mike DesGaines, Lanfill/Recycling Facility Manager (631) 286-8551
Zoning	A1 Residential 1-family 40,000 sq ft
Surrounding Land Use	Residential to the west and south; light industrial to the south; open space to the north and south.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Types of Material Accepted	Construction/demolition; municipal solid waste; organic waste including sludge from New York City; ash from incinerators in Hempstead.
Acceptability of Dredged Material, and Type of Use	Acceptable. Dredged material can be used as daily cover or for capping cells as they close; can accept fine-grained dredged material for daily cover; fines could also be used for capping, but would likely need to be mixed on-site with loam to support vegetation.
Tipping Fees	$25.00/ton for dredged material. Landfill may also add a cubic yard option for pricing in future.
Landfill Capacity and/or Design Years	Operator didn't have exact numbers but capacity appears high. In 1986 a 56-acre expansion project was brought online. Current expansion includes cells on northern portion of site. These will tie in with northern edge of westernmost cell.
Site Access	Horseblock Rd., which is a paved road, currently provides access for trucks and heavy equipment.
Restrictions on Time of Day or Year	Hours of operation Mon.-Fri. 9:00 to16:00; Sat. 7:00 to 12:00. Open year-round except holidays.
Additional Considerations	Site can accept most types of material, including dredged material with fines. It also accepts items such as boats, most types of C&D material, and large animal carcasses. Town of Brookhaven household trash is incinerated in Hempstead, and the ash is returned to the Brookhaven landfill.

Site 61 Brookhaven Landfill
Brookhaven, NY

Date: July 13, 2010

Direction: West

Description:

Current use of site – fill area.

Date: July 13, 2010

Direction: East

Description:

New cells under construction.

Site 61 Brookhaven Landfill
Brookhaven, NY

Date: July 13, 2010

Direction: North

Description:

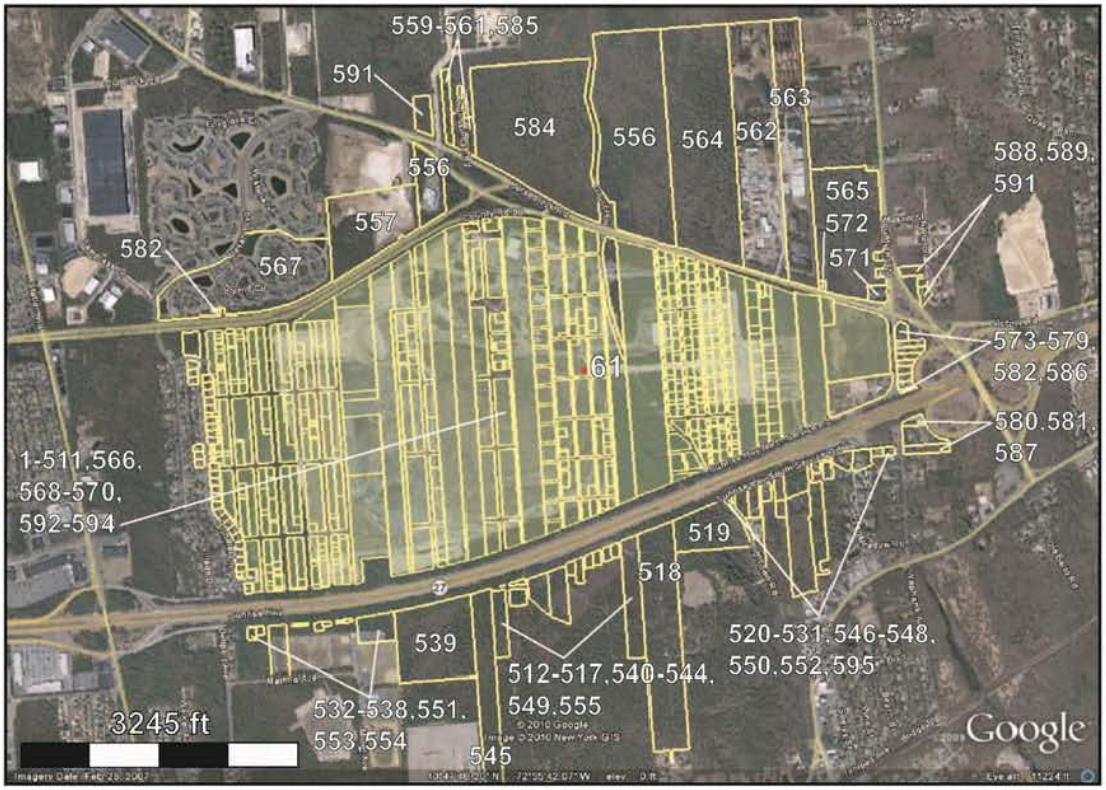
View from a high point on the site showing active disposal area and new cells.

Date: July 13, 2010

Direction: West

Description:

View from top of site. Landfill is one of the highest points on Long Island.



*Parcel numbers on next page

Site 61 Brookhaven, NY

Town of Brookhaven Landfill

Parcel	DSBL	Parcel	DSBL
1	0200845000100029001	61	0200873000500007000
2	0200845000200003001	62	0200873000500011000
3	0200845000200003002	63	0200873000500013000
4	0200845000200004000	64	0200873000500014000
5	0200845000200007000	65	0200874000100001000
6	0200845000200008000	66	0200874000100002000
7	0200845000300011001	67	0200874000100004000
8	0200845000400011000	68	0200874000200024000
9	0200845000400012000	69	0200874000200025000
10	0200845000400013000	70	0200874000200027000
11	0200845000700002000	71	0200874000200028000
12	0200845000700003000	72	0200874000200029000
13	0200846000200006000	73	0200874000200030000
14	0200846000200007000	74	0200874000200031000
15	0200846000200008000	75	0200874000200032000
16	0200846000200010000	76	0200874000200040000
17	0200873000100050001	77	0200874000200041000
18	0200873000100052000	78	0200874000200044000
19	0200873000100053000	79	0200874000300023001
20	0200873000100054000	80	0200874000300024001
21	0200873000100055000	81	0200874000300026001
22	0200873000100056000	82	0200874000300027000
23	0200873000100058000	83	0200874000300030000
24	0200873000100061001	84	0200874000300031000
25	0200873000100061009	85	0200874000300032000
26	0200873000100062000	86	0200874000300043001
27	0200873000100064000	87	0200874000300044001
28	0200873000200004000	88	0200874000300049000
29	0200873000200005000	89	0200874000400004000
30	0200873000200006000	90	0200874000400028001
31	0200873000200007000	91	0200874000400029001
32	0200873000200008000	92	0200874000400031002
33	0200873000200010001	93	0200874000400033001
34	0200873000200010002	94	0200874000400036000
35	0200873000200010003	95	0200874000400037001
36	0200873000200016000	96	0200874000400037002
37	0200873000200018000	97	0200874000400038002
38	0200873000200020000	98	0200874000400039000
39	0200873000200027000	99	0200874000400040001
40	0200873000200029000	100	0200874000400040002
41	0200873000200030000	101	0200874000400041000
42	0200873000200033000	102	0200874000500001000
43	0200873000300004000	103	0200874000500002000
44	0200873000300005000	104	0200874000500003000
45	0200873000300006000	105	0200874000500004000
46	0200873000300007000	106	0200874000500005000
47	0200873000300008000	107	0200874000500006000
48	0200873000300009000	108	0200874000500007000
49	0200873000300011000	109	0200874000500008000
50	0200873000300014000	110	0200875000100001000
51	0200873000300015000	111	0200875000100003001
52	0200873000300016000	112	0200875000100005001
53	0200873000300017000	113	0200875000100005002
54	0200873000300019000	114	0200875000100007001
55	0200873000400019000	115	0200875000100007002
56	0200873000500001000	116	0200875000100009000
57	0200873000500002000	117	0200875000100010000
58	0200873000500003000	118	0200875000100011000
59	0200873000500005000	119	0200875000100013000
60	0200873000500006000	120	0200875000100014000

Site 61 Brookhaven, NY

Town of Brookhaven Landfill

Parcel	DSBL	Parcel	DSBL
121	0200875000100015001	181	0200875000200024000
122	0200875000100015003	182	0200875000200025000
123	0200875000100016000	183	0200875000200026000
124	0200875000100017001	184	0200875000200028002
125	0200875000100017002	185	0200875000200029001
126	0200875000100018000	186	0200875000200029002
127	0200875000100019000	187	0200875000200030001
128	0200875000100022001	188	0200875000200030002
129	0200875000100022002	189	0200875000200031001
130	0200875000100023000	190	0200875000200031002
131	0200875000100024000	191	0200875000200031003
132	0200875000100025001	192	0200875000200032000
133	0200875000100025002	193	0200875000200033000
134	0200875000100026000	194	0200875000200034000
135	0200875000100027001	195	0200875000200035000
136	0200875000100028000	196	0200875000200037001
137	0200875000100029000	197	0200875000200037002
138	0200875000100031000	198	0200875000200038000
139	0200875000100032002	199	0200875000200039000
140	0200875000100033000	200	0200875000200040002
141	0200875000100034000	201	0200875000200042000
142	0200875000100035002	202	0200875000200043001
143	0200875000100036001	203	0200875000200043002
144	0200875000100036002	204	0200875000200045002
145	0200875000100037002	205	0200875000300001000
146	0200875000100038002	206	0200875000300002001
147	0200875000100039001	207	0200875000300003001
148	0200875000100039002	208	0200875000300004001
149	0200875000100040000	209	0200875000300006001
150	0200875000100041001	210	0200875000300007001
151	0200875000100041002	211	0200875000300008001
152	0200875000100042001	212	0200875000300009001
153	0200875000100042002	213	0200875000300011001
154	0200875000100043000	214	0200875000300015001
155	0200875000100046000	215	0200875000300016001
156	0200875000100047000	216	0200875000300017001
157	0200875000200001001	217	0200875000300018001
158	0200875000200001002	218	0200875000300020001
159	0200875000200002000	219	0200875000300021001
160	0200875000200003001	220	0200875000300023001
161	0200875000200003002	221	0200875000300023002
162	0200875000200004000	222	0200875000300024000
163	0200875000200006000	223	0200875000300025000
164	0200875000200007002	224	0200875000500002000
165	0200875000200008000	225	0200875000500003000
166	0200875000200009000	226	0200900000200001001
167	0200875000200010001	227	0200900000200003002
168	0200875000200010002	228	0200900000200003003
169	0200875000200011000	229	0200900000200011003
170	0200875000200012001	230	0200900000200011004
171	0200875000200013001	231	0200900000200012000
172	0200875000200013002	232	0200900000200014000
173	0200875000200014000	233	0200900000200015000
174	0200875000200015000	234	0200900000200017000
175	0200875000200019000	235	0200900000200018000
176	0200875000200020001	236	0200900000200020000
177	0200875000200020002	237	0200900000200022002
178	0200875000200021001	238	0200900000200026002
179	0200875000200021002	239	0200900000300002000
180	0200875000200023000	240	0200900000300003000

Site 61 Brookhaven, NY

Town of Brookhaven Landfill

Parcel	DSBL	Parcel	DSBL
241	0200900000300004000	301	0200901000200001000
242	0200900000300005000	302	0200901000200002000
243	0200900000300006000	303	0200901000200004000
244	0200900000300008000	304	0200901000200006000
245	0200900000300009000	305	0200901000200008000
246	0200900000300010000	306	0200901000200010000
247	0200900000300011000	307	0200901000200021001
248	0200900000300012000	308	0200901000200025001
249	0200900000300013000	309	0200901000200031001
250	0200900000300015000	310	0200901000200033000
251	0200900000300016000	311	0200901000200036001
252	0200900000300017000	312	0200901000200048002
253	0200900000300018000	313	0200901000200049000
254	0200900000300019000	314	0200901000200050000
255	0200900000300020000	315	0200901000200051000
256	0200900000300021000	316	0200901000200052000
257	0200900000300023000	317	0200901000200053001
258	0200900000300025000	318	0200901000200054000
259	0200900000300027000	319	0200901000200056000
260	0200900000400001000	320	0200901000200057001
261	0200900000400002000	321	0200901000200058001
262	0200900000400004000	322	0200901000200062000
263	0200900000400005000	323	0200901000200064000
264	0200900000400007000	324	0200902000100001000
265	0200900000400008000	325	0200902000100002000
266	0200900000400011000	326	0200902000100003000
267	0200900000400012000	327	0200902000100004000
268	0200900000400013000	328	0200902000100005000
269	0200900000400014000	329	0200902000100006000
270	0200900000400015000	330	0200902000100008000
271	0200900000400017000	331	0200902000100009000
272	0200900000400018000	332	0200902000100010001
273	0200900000400019000	333	0200902000100010002
274	0200900000400020000	334	0200902000100012000
275	0200900000400021000	335	0200902000100013001
276	0200900000400025000	336	0200902000100013002
277	0200900000400026000	337	0200902000100014000
278	0200900000400027000	338	0200902000100015000
279	0200900000400028000	339	0200902000100016000
280	0200900000400029000	340	0200902000100017001
281	0200900000400030000	341	0200902000100017002
282	0200900000400031000	342	0200902000100018000
283	0200900000400032000	343	0200902000100019000
284	0200900000400033000	344	0200902000100021001
285	0200900000400034000	345	0200902000100021002
286	0200900000400035000	346	0200902000100022000
287	0200900000500001000	347	0200902000100023000
288	0200900000500002000	348	0200902000500002001
289	0200900000500003001	349	0200902000500003000
290	0200900000500004000	350	0200930000600010000
291	0200900000500011000	351	0200930000600011000
292	0200900000500013001	352	0200930000600012000
293	0200901000100001000	353	0200930000600013000
294	0200901000100002000	354	0200930000600015000
295	0200901000100003000	355	0200930000600016000
296	0200901000100009000	356	0200930000600017000
297	0200901000100061000	357	0200930000600018000
298	0200901000100062000	358	0200845000200006000
299	0200901000100063000	359	0200845000200009000
300	0200901000100064000	360	0200845000400014000

Site 61 Brookhaven, NY

Town of Brookhaven Landfill

Parcel	DSBL	Parcel	DSBL
361	0200845000400015000	421	0200874000400034000
362	0200873000100061008	422	0200874000400035000
363	0200873000200009000	423	0200875000100012001
364	0200873000300002000	424	0200875000100020000
365	0200873000400017000	425	0200875000100021000
366	0200873000500004000	426	0200875000100030000
367	0200873000500009000	427	0200875000100038001
368	0200874000200026000	428	0200875000200017002
369	0200874000200043000	429	0200875000300010001
370	0200874000300022001	430	0200875000300014001
371	0200874000300045000	431	0200875000300022001
372	0200874000300048000	432	0200875000500004000
373	0200874000400030001	433	0200900000200013000
374	0200875000100027002	434	0200900000300001000
375	0200875000100037001	435	0200900000300007000
376	0200875000100045000	436	0200900000300014000
377	0200875000200005000	437	0200900000300026000
378	0200875000200007001	438	0200900000400010000
379	0200875000200028001	439	0200900000400022000
380	0200875000200040001	440	0200900000500010000
381	0200875000300012001	441	0200901000100005000
382	0200900000200016000	442	0200901000100006000
383	0200900000400006000	443	0200901000200039001
384	0200900000400024000	444	0200901000200061000
385	0200902000100007000	445	0200901000200065000
386	0200902000100020000	446	0200902000500001001
387	0200930000600014000	447	0200845000300031001
388	0200845000700001000	448	0200873000100063000
389	0200873000100057000	449	0200873000200011000
390	0200873000300003000	450	0200873000200017000
391	0200873000300010000	451	0200873000200028000
392	0200873000500010000	452	0200873000500012000
393	0200874000100003000	453	0200874000400014000
394	0200874000400015001	454	0200874000400019001
395	0200874000400024001	455	0200874000400031003
396	0200875000100004000	456	0200874000400038001
397	0200875000100015002	457	0200875000100002000
398	0200875000100032001	458	0200875000100003002
399	0200875000200018001	459	0200875000100006000
400	0200875000200022000	460	0200875000100008000
401	0200875000200045001	461	0200875000100012002
402	0200875000300005001	462	0200875000100035001
403	0200875000300013001	463	0200875000100044000
404	0200900000200019000	464	0200875000200012002
405	0200900000300024000	465	0200875000200017001
406	0200900000400003000	466	0200875000200018002
407	0200900000400023000	467	0200875000200027000
408	0200901000100007000	468	0200875000200036000
409	0200901000100008000	469	0200875000200041000
410	0200901000200007000	470	0200875000200044000
411	0200901000200032000	471	0200875000300019001
412	0200901000200048003	472	0200900000300022000
413	0200901000200055000	473	0200900000400009000
414	0200902000100011000	474	0200900000400016000
415	0200846000200009000	475	0200901000100004000
416	0200873000200015000	476	0200901000200024001
417	0200873000200019000	477	0200901000200063000
418	0200873000400016000	478	0200873000100097000
419	0200874000200023000	479	0200873000100099000
420	0200874000300047001	480	0200900000200027000

Site 61 Brookhaven, NY

Town of Brookhaven Landfill

Parcel	DSBL
481	0200900000200028000
482	0200900000200030000
483	0200900000200031000
484	0200900000200032000
485	0200900000200033000
486	0200900000200036000
487	0200900000200037000
488	0200900000200039000
489	0200873000100094000
490	0200873000100095000
491	0200873000100096000
492	0200900000200040000
493	0200900000200041000
494	0200900000200043000
495	0200900000200044000
496	0200900000200045005
497	0200900000200045006
498	0200900000200047000
499	0200900000200048000
500	0200900000200049000
501	0200930000100020000
502	0200900000200038000
503	0200900000200046000
504	0200900000200045004
505	0200900000200034000
506	0200900000200035000
507	0200900000200042000
508	0200873000100098000
509	0200900000200029000
510	0200873000100051000
511	0200900000200002000
512	0200901000300001001
513	0200901000300003000
514	0200901000300004000
515	0200901000300012000
516	0200901000300013001
517	0200901000300020001
518	0200901000400001000
519	0200902000200004002
520	0200902000200019000
521	0200902000200022001
522	0200902000200023000
523	0200902000300001001
524	0200902000300001002
525	0200902000300010000
526	0200902000300012000
527	0200902000300013000
528	0200902000300025000
529	0200902000400028002
530	0200902000400030007
531	0200902000400030008
532	0200930000300063002
533	0200930000400001000
534	0200930000400010000
535	0200930000400011000
536	0200930000400020000
537	0200930000500001000
538	0200930000500010000
539	0200931000100001004
540	0200931000200049000
541	0200931000200054000
542	0200931000200055000
543	0200931000300001000
544	0200931000300059001
545	0200974000200002000
546	0200902000300009000
547	0200902000200022002
548	0200902000200022003
549	0200901000300023000
550	0200902000300011001
551	0200930000500009000
552	0200902000400029001
553	0200930000300028000
554	0200930000300051000
555	0200931000200050004
556	0200815000100006003
557	0200844000300022010
558	0200845000500001000
559	0200845000600002001
560	0200845000600003000
561	0200845000600007000
562	0200846000300003001
563	0200846000300004000
564	0200846000300005000
565	0200846000400002002
566	0200873000100028003
567	0200873000100070002
568	0200873000100091000
569	0200873000100092000
570	0200873000100093000
571	0200875000400001000
572	0200875000500001000
573	0200875000500005000
574	0200875000500009000
575	0200875000500011000
576	0200875000500012000
577	0200875000500013000
578	0200875000500015000
579	0200875000500016001
580	0200875000500017000
581	0200903000100002000
582	0200875000500014000
583	0200873000100068000
584	0200815000100004005
585	0200845000600006001
586	0200875000500010000
587	0200903000100001000
588	0200875000400005000
589	0200875000400013003
590	0200845000800001000
591	0200846000500023001
592	0200900000100112000
593	0200900000100113000
594	0200900000100114000
595	0200902000300002000

Site 61 Brookhaven, NY

Town of Brookhaven Landfill

Site 60 Bydenburgh Rd. Landfill Complex, Clean Fill Phase 1 & 2 Islip, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 2500
Feet

Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_60-2.ai

Site 60 Town of Islip Landfill

Islip, NY

Site Address	440 Blydenbergh Rd., Islip, NY
General Description	Municipal landfill.
Ownership/POC	Town of Islip, Islip Resource Recovery Agency Robby Brick, Director (631) 224-5645
Zoning	R-AAA Residence AAA
Surrounding Land Use	Residential to the north, west, and south; agricultural/horse farm to the west; golf course to the east.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Types of Material Accepted	Clean fill and construction/demolition material.
Acceptability of Dredged Material, and Type of Use	Not likely. Islip has had trouble with dredged material in the past and is not likely to accept it in the future.
Tipping Fees	$45.00/ton for dredged material.
Landfill Capacity and/or Design Years	600,000-700,000 cy capacity. Active life expected to go through 2015 or 2016.
Site Access	Blydenburgh Rd.
Restrictions on Time of Day or Year	Hours of operation Mon.-Fri. 7:00 to 14:45; Sat. 7:00 to 12:45; year-round. Not open holidays.
Additional Considerations	Prior problems with dredged material included contractors switching loads and bringing unacceptable material to the site. Landfill managers indicate dredged material would not be a good fit for this site. Total landfill volume is 4,500,000 cy. Operators expect 5 ½ years to reach capacity. The largest parcel on the site is the municipal solid waste cell, which is already closed and capped.

Site 60 Town of Islip Landfill
Islip, NY

Date: July 13, 2010

Direction: North

Description:

Site entrance.

Date: July 13, 2010

Direction: Northeast

Description:

Active disposal area near top of site.

Site 60 Town of Islip Landfill
Islip, NY

Date: July 13, 2010

Direction: North

Description:

Active disposal area near top of site.

Parcel	DSBL	Parcel	DSBL
1	0500027000100023000	24	0500016000100013006
2	0500027000200006000	25	0500016000100016001
3	0500027000200007000	26	0500016000200005002
4	0500027000200020000	27	0500016000200007000
5	0500027000200005000	28	0500016000200010001
6	0500027000200030000	29	0500016000200010010
7	0500016000100009000	30	0500016000200012000
8	0500016000200003001	31	0500016000200015000
9	0500016000200004000	32	0500017000100001116
10	0500027000100026000	33	0500027000100001000
11	0500027000200001000	34	0500027000100002000
12	0500027000200002000	35	0500027000100003000
13	0500027000100025000	36	0500027000100004000
14	0500027000200003000	37	0500027000100021000
15	0500027000200004000	38	0500027000100022000
16	0500027000100024000	39	0500027000200008000
17	0500005000200010000	40	0500027000200017000
18	0500005000200024000	41	0500027000200018000
19	0500005000300016000	42	0500027000200021000
20	0500016000100008000	43	0500016000200014000
21	0500016000100011000	44	0500016000200011000
22	0500016000100012000	45	0500016000200006002
23	0500016000100013005	46	0500016000100010000

Site 60 Islip, NY

Blydenburgh Rd. Landfill Complex
Clean Fill Phase 1 + 2

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Site 59 110 Sand Company Clean Fill Disposal Site Melville, NY

Site 59 110 Sand Clean Fill Disposal Site

Melville, NY

Site Address	136 Bethpage/Spagnolli Rd., Melville, NY
General Description	Privately owned sand mine and disposal site. Part of the site is also currently used for asphalt manufacture, but the majority of the site is a disposal area.
Ownership/POC	110 Sand Co. James Debis, PE (631) 694-2822
Zoning	I1, I2 Light Industry; R40 Residence
Surrounding Land Use	Light industrial; park/open space to the north; residential (Broad Hill Hollow Estates) to the west.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Types of Material Accepted	Construction/demolition; municipal solid waste; organic waste.
Acceptability of Dredged Material, and Type of Use	Acceptable, but easier if it is a freshwater source. Dredged material can be used as daily cover or fill; can use fine-grained dredged material for cover and fill.
Tipping Fees	$25.00/ton for dredged material.
Landfill Capacity and/or Design Years	Permitted for up to 6,000 tons/day or 2 million tons/yr. Current volume is lower due to economic slowdown. Expected design life of site is for 40 years through 2050.
Site Access	Spagnolli Rd. This is a paved road with no limitations to truck and heavy equipment access.
Restrictions on Time of Day or Year	Hours of operation Mon.-Sat., 7:00 to 16:30.
Additional Considerations	This site was originally a sand mine, and now the excavated areas are being filled. Landfill can accept various types of material including electrical conduit and all kinds of C&D material. Tipping fees are generally lower than municipal landfills in the area. The landfill has a great deal of capacity and flexibility to accept dredged material as daily cover or fill.

Site 59 110 Sand Clean Fill Disposal Site
Melville, NY

Date: July 13, 2010

Direction: West

Description:

Current use of site – fill area.

Date: July 13, 2010

Direction: East

Description:

Access road. Sand piles shown in foreground.

Site 59 110 Sand Clean Fill Disposal Site
Melville, NY

Date: July 13, 2010

Direction: North

Description:

Active disposal area on site.

=

Date: July 13, 2010

Direction: West

Description:

Area to be filled in future. New cells will be built adjacent to previously filled areas shown on right side of photo.

Parcel	DSBL
1	0400254000200045000
2	0400265000100004000
3	0400265000100005000
4	0400265000100006010
5	0400265000100006011
6	0400265000100007000
7	0400265000100009006
8	0400265000100010002
9	0400265000100010004
10	0400265000100010006
11	0400265000100010009
12	0400265000100010010

Parcel	DSBL
13	0400265000100010012
14	0400265000100011007
15	0400265000100012000
16	0400265010100070000
17	0400266000100002004
18	0400265000100006003
19	0400254000200046008
20	0400265000100009003
21	0400265000100011009
22	0400265000100011011
23	0400265000100010011

Site 59 Melville, NY

110 Sand Company
Clean Fill Disposal Site

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Site 422/423 Flushing Airport Wetlands and Uplands Flushing, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)

0 2000

Feet

Image Source: Google© 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_422&423-2.ai

Site 422 & 423 Flushing Airport Wetlands and Uplands

Flushing, NY

Site Address	20th Ave and 132nd St. Queens, NY
General Site Description	Site was formerly an airport (from 1920's to 1980s) under the DOT marine and aviation division. Now the site is in remediation/redevelopment under the New York City Economic Development Corporation.
Ownership/Developer POC	New York City Economic Development Corporation Doug Rice, Vice President (212) 312-3750
Development Project	The project was originally designed as a 1.3 acre wetland mitigation project, intended to mitigate for wetland impacts on a nearby parcel developed by the City. It has grown into a much larger project involving removal of *Phragmites*, removal of contaminated sediment on the site, capping with 2 ft of clean fill over the entire site, and reconstructing the wetland hydrology and vegetation. Five years after the redevelopment project is completed, the New York City Parks Department will take over site management. The Parks Department would like to have increased public access on the site, but specific plans have not been formulated. At present a new road is being constructed through the site, in part to provide access for equipment during development, and in part to provide another roadway to this highly congested industrial, commercial, and retail area.
Zoning	M2-1 Medium manufacturing medium performance, mainly in older manufacturing areas.
Surrounding Land Use	College Point Sports Association Complex to the west; industrial, commercial/retail including a New York Times building and US Postal Service facility to east. The Flushing airport parcel receives runoff from parcels to the east.
Wetlands	Yes. Mapped wetlands throughout the site.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Staging Area	Potential staging area at the south end of the site, near the southern end of a new road that runs along on the west side of the wetland. For the upland area, a staging area could be set up in the northwestern corner. This area is flat and cleared of trees, and has been used as a storage/staging area in the past.
Capacity and Intended Use for Dredged Material	Approximately 140,000 cy for the wetland area. Material is needed to cover the area with 2 ft of clean fill. The 24.5 acre upland area may also be covered with clean fill if funding becomes available.
Timetable for Redevelopment	Uncertain. Depends on project funding.

Land Access	Unpaved access road at 20th Ave and 132nd St. Currently, access is blocked by a locked gate. The new road will run through the site along the west side of the wetland. When complete it will connect with existing roads outside the site. It is hoped that the new road will help to relieve heavy congestion on local roads. The project plan includes a proposed maintenance access road on the northwest side of the site, entering from 20th Ave just above the wetland. Railroad runs adjacent to the site on the southern corner.
Limitations to Truck or Heavy Equipment Use	Roads are heavily congested in this area so trucking to the site could be difficult. However, no access by water is available so this may be the only option.
Water Access	No direct water access. Nearest point for barge access is approximately 1.5 miles to the west at the Flushing Bay Municipal Transfer Station. Material could be offloaded to trucks here, and this would likely be more cost-effective than trucking material from more distant areas.
Additional Considerations	Material must meet TAGM 4046 criteria*. Testing and acceptance procedures for the site were developed in coordination with NY DEC. In the past, project engineers had considered pumping a slurry of material to the site through a pipeline that could run to the wetland from the Flushing Bay Transfer Station. Subsequently, this was determined infeasible. Project timeframe depends on funding and is uncertain at this point. The site is located in a FEMA AE-Zone.

*The TAGM (Technical and Administrative Guidance Memorandum) from the New York Department of Environmental Conservation provides guidance for determining soil cleanup levels at contaminated sites, when cleanup of a site to predisposal conditions is not possible or feasible. TAGM 4046 criteria have developed for a variety of contaminants. Details on specific contaminants can be found at http://www.dec.ny.gov/regulations/2612.html

Site 422 & 423Flushing Airport Redevelopment
Flushing, NY

Date: August 4, 2010

Direction: North

Description:

Flushing airport wetlands remediation site. Wetland at right; photo taken from site entrance where a new road is being constructed.

Date: August 4, 2010

Direction: East

Description:

Wetland area viewed from new road.

Site 422 & 423 Flushing Airport Redevelopment
Flushing, NY

Date: August 16, 2010

Direction: East

Description:

Phragmites occur throughout much of the wetland area. The redevelopment plan includes removal of all plants and rhizomes, and re-planting with desired species.

Date: August 4, 2010

Direction: East

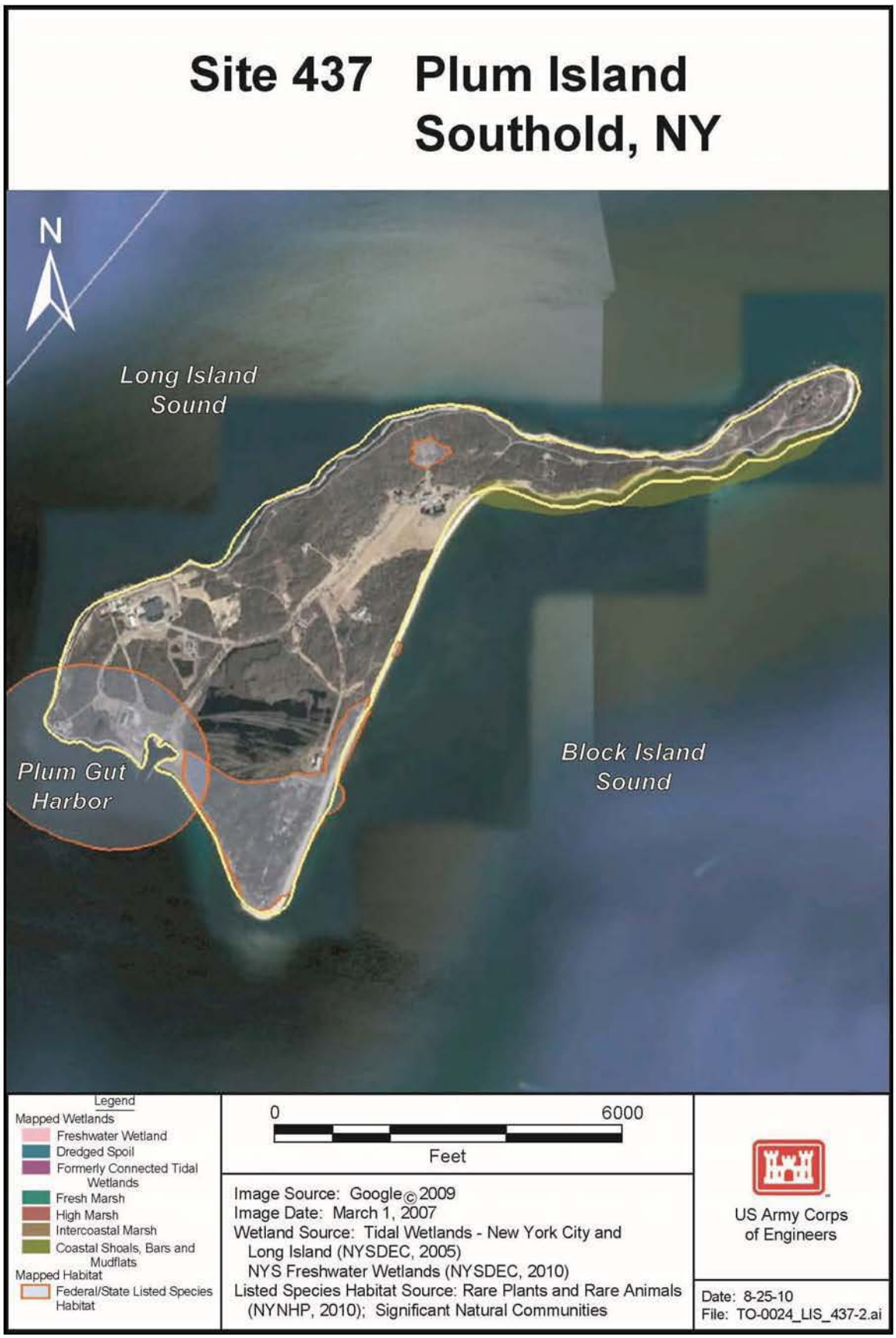
Description:

Upland area of site. This area could be used for staging or storing material prior to use.

Parcel	BBL	Parcel	BBL
1	Queens 4178 1	25	Queens 4306 19
2	Queens 4179 1	26	Queens 4305 1
3	Queens 4180 1	27	Queens 4278 1
4	Queens 4181 26	28	Queens 4278 17
5	Queens 4181 1	29	Queens 4278 34
6	Queens 4181 33	30	Queens 4278 36
7	Queens 4182 1	31	Queens 4278 19
8	Queens 4183 1	32	Queens 4238 1
9	Queens 4243 1	33	Queens 4238 33
10	Queens 4242 1	34	Queens 4209 1
11	Queens 4213 13	35	Queens 4208 1
12	Queens 4213 1	36	Queens 4237 1
13	Queens 4212 1	37	Queens 4277 1
14	Queens 4211 1	38	Queens 4304 1
15	Queens 4210 1	39	Queens 4334 50
16	Queens 4239 1	40	Queens 4282 100
17	Queens 4240 1	41	Queens 4331 1
18	Queens 4241 1	42	Queens 4183 75
19	Queens 4280 1	43	Queens 4177 1
20	Queens 4278 60	44	Queens 4207 16
21	Queens 4306 20	45	Queens 4138 1
22	Queens 4306 1	46	Queens 4138 50
23	Queens 4282 75	47	Queens 4143 60
24	Queens 4282 50	48	Queens 4145 1

Site 422/423 Flushing, NY

Flushing Wetlands & Uplands


Site 437 Plum Island
Southold, NY
N
Long Island Sound
Plum Gut Harbor
Block Island Sound
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
0
6000
Feet
Image Source: Google© 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-25-10
File: TO-0024_LIS_437-2.ai

Site 437 Plum Island
Southold, NY

Site Address	Island off the northeast coast of Long Island. Plum Island is officially a part of the Town of Southold.
General Site Description	Plum Island is a small island east of Orient Point on Long Island. The island houses the Plum Island Animal Disease Center, which was established in 1954 by the US Department of Agriculture (USDA). The center conducts research on animal pathogens in order to protect farmers, ranchers, and the food supply. USDA also operates the Agricultural Research Service and the Plant Health Inspection Service on the island. In 2003 the Department of Homeland Security (DHS) took ownership of the island and facilities, but USDA researchers continue work on the island.
Ownership/Developer POC	Department of Homeland Security/General Services Administration Tom Dwyer, Environmental Protection Specialist (631) 323-3045
Development Project	DHS and the General Services Administration (GSA) are investigating options for moving the Plum Island research center to Kansas, and selling the island to private entities. Public Law 110-329 Section 540 of the Consolidated Security, Disaster Assistance and Continuing Appropriations Act of 2009 instructed the GSA to sell all real and related personal property and assets that support Plum Island if the DHS decided that a new bio-contaminant laboratory should be developed and located at another site. In 2009, DHS made a decision to develop and locate the new facility, the National Bio and Agro-Defense Facility (NBAF), in Manhattan, Kansas. However, this proposal and associated redevelopment plans for Plum Island have not been finalized. A No-Action alternative is still an option, along with various land use and zoning options for Plum Island if it is sold for redevelopment. Public Scoping meetings have been held, and an Environmental Impact Statement is being developed for the Island, as alternatives are being developed. Because a redevelopment plan is not currently in place, this analysis deals only with beach nourishment as an option for placement of dredged material. There is a beach/berm area on the south side of the island that has been nourished in the past with material from maintenance dredging in the harbor. This beach area could potentially take more material than it presently receives.
Zoning	Not currently subject to local zoning regulations. Zoning and land use options would be considered if the island is sold.
Surrounding Land Use	Island; no abutters.
Wetlands	Yes. Mapped wetlands along the southwestern shoreline. Unmapped inland wetlands noted in the southeast corner of the island during site visit.
State and Federally Listed Species Habitat	Yes. Mapped habitat on southwest end of island, and in a small area in the middle/northern section. Piping Plovers observed at Pine Point on the south corner of the island during site visits.

Staging Area	Staging areas exist near the port area. Others could be constructed on site.
Capacity and Intended Use for Dredged Material	41,600 cy. Capacity estimate was based on a 2,900 ft long beach nourishment project with a 100 ft wide berm, as there is no redevelopment plan in place.
Timetable for Redevelopment	Uncertain; this will depend on final decisions regarding the development of the NBAF in Kansas, and subsequent options for sale and redevelopment of Plum Island.
Land Access	Access to the beach nourishment site is via sand road located behind the dunes.
Limitations to Truck or Heavy Equipment Use	Much of the island has only narrow, sand roads. New roads may be required if the island is redeveloped. Beach nourishment has occurred in the past, and equipment and trucks are able to access the nourishment area via unpaved road behind the dunes.
Water Access	Access for barges and ferries at the main harbor near Plum Gut. The harbor has a sheet pile bulkhead, docks, and pilings where barges could be tied up. No restrictions on transferring material to shore at the harbor area.
Additional Considerations	At present DHS staff do not see an imminent change in operations at Plum Island, and no specific re-development plans have been made. Therefore dredged material placement in support of redevelopment is not being considered for this project. However, current use of dredged material on the island includes beach and berm nourishment at the southeastern edge of the island. When the channel and port area are dredged for navigation purposes, dredged material is used to build the berm along the sand road leading from the harbor to Pine Point (the southern tip of the Island). Therefore capacity calculations have been performed for the purposes of nourishment in this area. Endangered species (Piping Plovers, Terns) occur at Pine Point. Wetlands present on the island. Cultural resources are present on the island. The site contains FEMA VE-Zones and AE-Zones.

Site 437 Plum Island
Southold, NY

Date: July 28, 2010

Direction: North

Description:

Current beach nourishment area viewed from Pine Point. Vegetated berm is being built up to provide protection for a sand road that runs from the harbor to Pine Point

Date: July 28, 2010

Direction: North

Description:

Sand road behind berm that runs from the harbor to Pine Point.

Site 437 Plum Island
Southold, NY

Date: July 28, 2010

Direction: South

Description:

View of Pine Point from road in back of berm at nourishment area.

Date: July 28, 2010

Direction: West

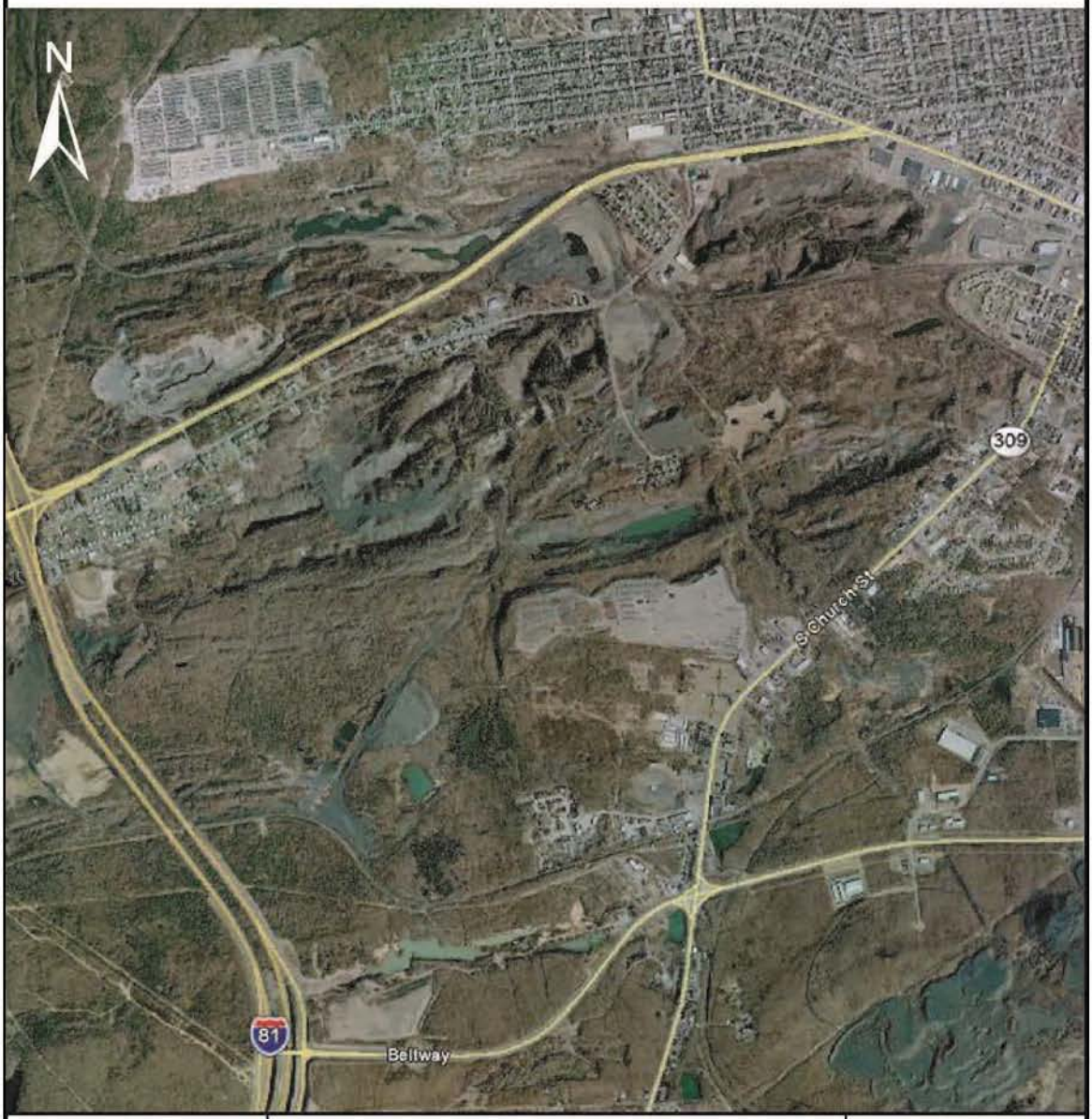
Description:

Pine Point area with Piping Plover enclosures.

Site 437 Southold, NY

Plum Island

Site 417 Hazelton Mines
Hazelton, PA



0 1885 3770 5655

Feet

US Army Corps of Engineers

Image Source: Google © 2009
Image Date: April 1, 2005

Date: 8-27-10
File: TO-0024_LIS_417.ai

Site 417 Hazelton Mines

Hazelton, PA

Site Address	Site bounded by Routes 924, 309, and Broad St. Project developer address is 282 South Church St., Hazelton, PA
General Site Description	277 acre abandoned mine site southwest of downtown Hazelton that contains deep mine pits and spoil piles. Approx. 50 acres of the site was used previously for disposal of industrial and municipal waste. Extensive underground mining occurred throughout the area, and the mines are currently filled with water. Water discharges through a mine tunnel into a stream that feeds the Susquehanna River.
Ownership/Developer POC	Hazelton Creek Properties, LLC Anthony Mazonkey, Project Manager (570) 714-2467
Development Project	Reclamation plan seeks to fill mine pits and redevelop area close to downtown Hazelton with the Hazelton Performing Arts Center and shopping facilities. Currently the project is permitted by PA DEP (O-85 and O-96) to receive dredge material, cement kiln dust and regulated fill (construction waste), and is currently in active operations. The proponent is currently seeking permits to receive FDG (flue gas desulfurization) material. The reclamation project has received 700,000 cubic yards of dredge material from the USACE Philadelphia District (Fort Mifflin) in the past. Hazelton Creek Properties has a contract to purchase all land from the Hazelton City Authority.
Zoning	n/a
Surrounding Land Use	Industrial, Commercial/Residential (downtown area), and open space, including other abandoned mines.
Wetlands	Yes. Wetlands located on the western portion of site.
State and Federally Listed Species Habitat	No.
Staging Area	Staging areas exist or could be constructed. Many mine spoil piles have been graded, creating large flat areas.
Capacity and Intended Use for Dredged Material	15 million cubic yards.
Timetable for Redevelopment	None projected. Developer estimates currently at 10% completion.
Land Access	Railroad access on site, capacity for 50 cars on rail spur. Also highway access via I-80 and I-81.
Limitations to Truck or Heavy Equipment Use	Heavy equipment currently in use at site.
Water Access	None.
Additional Considerations	Project faces community opposition. Public Interest Law Center of Philadelphia has challenged PA DEP's special research and development permit for the project. Their appeal is concerned with contaminants in fill, but focuses on potential contaminants in FDG. The permit to receive dredge material is not being contested. Tipping fees are charged for material disposal; rates depend on quantity and presence of contamination.

Site 373/CT-49 CRRA Hartford Landfill
Hartford, CT

Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 2500

Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-18-10
File: TO-0024_LIS_373_CT-49-2.ai

Site 373 & CT-49 Hartford Landfill

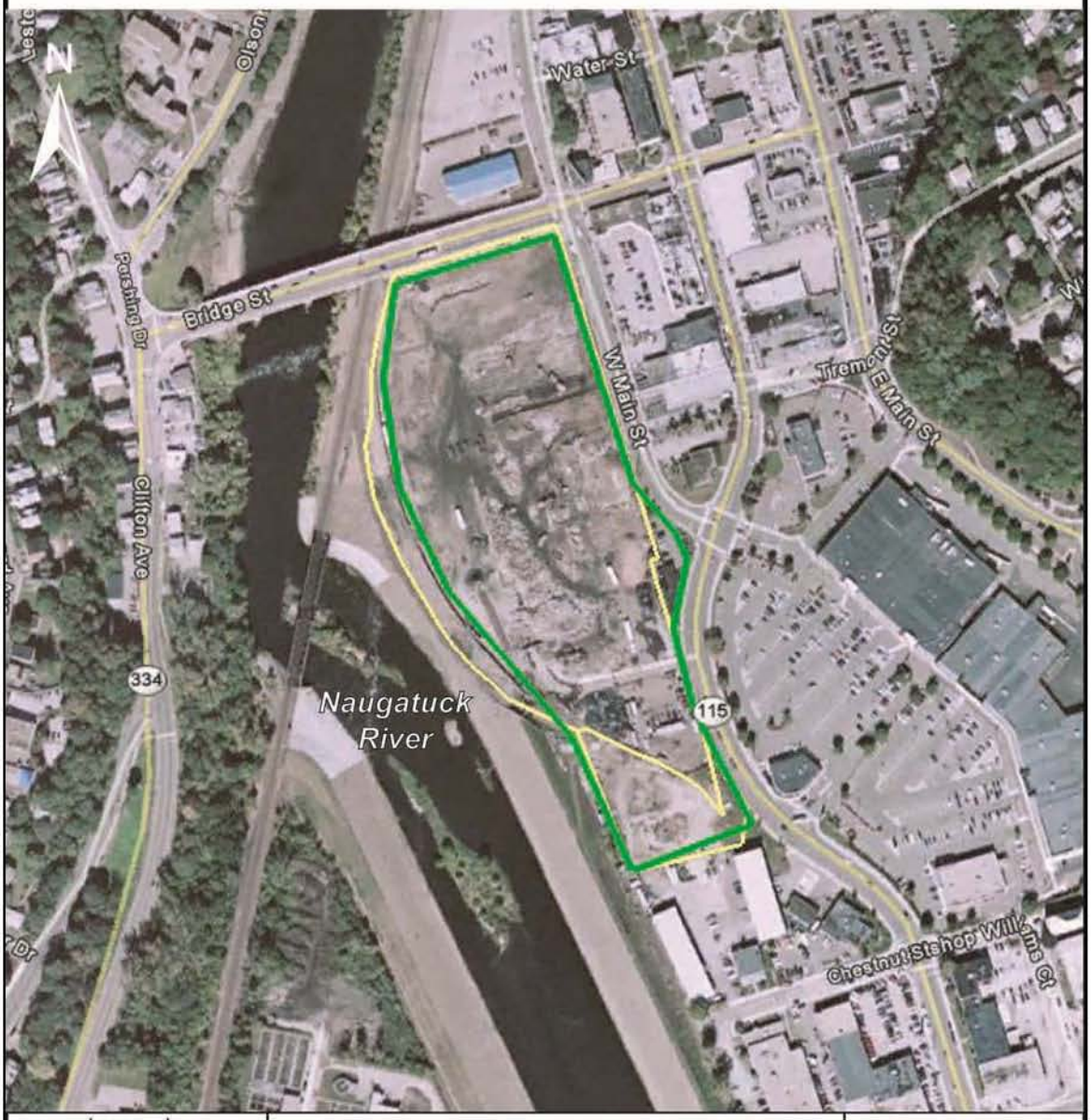
Hartford, CT

Site Address	284 Liebert Rd. Hartford, CT
General Description	Municipal landfill and recycling facility.
Ownership/POC	CT Resource Recovery Authority (CRRA) Peter Egan, Director (860) 757-7725
Zoning	I1 Industrial
Surrounding Land Use	Industrial to the south and west; I-91 to the west; Connecticut River to the east.
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers most of site.
Types of Material Accepted	Only final cover material is being accepted presently; landfill is closed and final capping is underway.
Acceptability of Dredged Material, and Type of Use	Not acceptable. CRRA director indicates this landfill is closed and will not accept dredged material.
Tipping Fees	n/a
Landfill Capacity and/or Design Years	None. Landfill closed, capping is underway, and not accepting dredged material.
Site Access	Liebert Rd.
Restrictions on Time of Day or Year	n/a
Additional Considerations	CRRA director noted that the landfill is set for final closure in 2012. Also indicated that the landfill would not accept dredged material for capping or dewatering, as it would not be a 'good fit' for the site. The director did not grant site access, noting that neither he, nor his staff, have time to accommodate a site visit request. Therefore no photos were obtained for this site. Site "Not Feasible" for dewatering.

Parcel	MBL
1	653005001
2	658007003
3	655005004
4	655005002
5	655005001
6	658001001
7	657002005
8	657002004
9	658001015
10	658001014
11	657002007
12	657002006
13	657002003
14	657001001
15	658000200

Site 373/CT-49 Hartford, CT
Active Landfill and
Potential Dewatering Site

Site CT-41
Ansonia, CT



Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

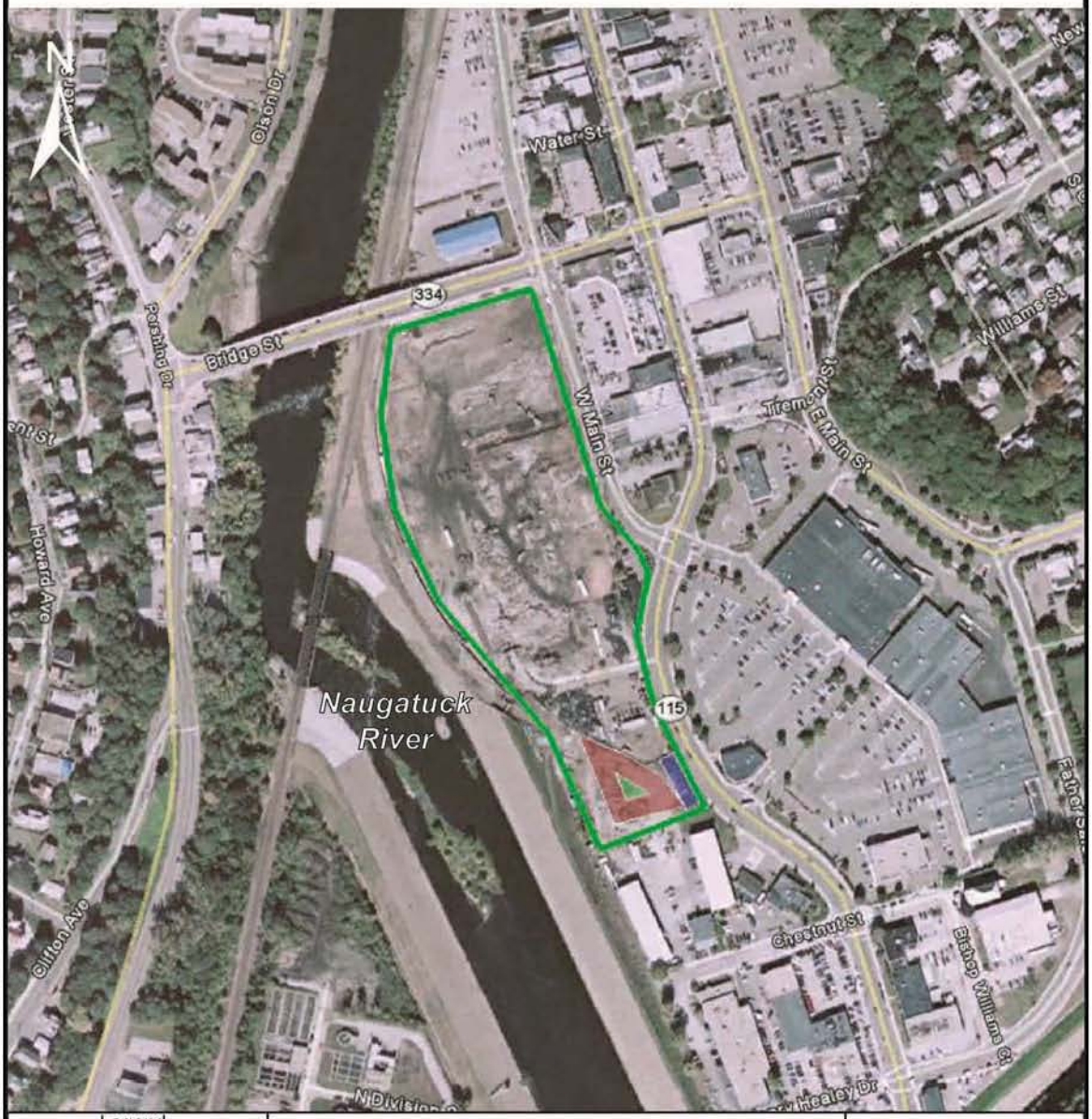
0 — 1000
Feet

Image Source: Google © 2009
Image Date: September 30, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-19-10
File: TO-0024_LIS_CT-41-2.ai

Site CT-41
Ansonia, CT



Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
Staging Area
Berm
Dewatering Area

0 1000
Feet

Image Source: Google © 2009
Image Date: September 30, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-7-10
File: TO-0024_LIS_CT-41-4.ai

Site CT-41

Ansonia, CT

Site Address	105 West Main St., Ansonia, CT
General Description	Light industrial/commercial site on the Naugatuck River. The majority of this site has recently been developed into a Target Super-store and parking lot. The southern end of the site, outside the Target development area, is currently a storage yard for heavy equipment and building materials.
Ownership/POC	Target Corporation
Zoning	Industrial HI
Surrounding Land Use	Light industrial, commercial, and retail stores to the north, east, and south; Naugatuck River to the west.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Urban land (307)
Staging Area	n/a
Dewatering Capacity	1,000 cy
Land Access	Rte. 334 to Main St.
Water Access	Naugatuck River; water depths in the river are shallow (approx. 0-6 ft), and would likely not provide enough depth for barges.
Additional Considerations	The only portion of the site with potential for dewatering is the southern end, which is about 0.2 acres in size. The remainder of the site has been developed into a new retail store by Target Corp. Water access to the site is via the Naugatuck River, with approx. depths of 0-6 ft. The banks of the river have been built into levees which are approx. 20-30 feet above the level of the site. The levees are armored with rip rap. Effluent control from a potential dewatering site would need to consider the presence of the levees. Site "Potentially Viable in the Future" for dewatering.

Site CT-41
Ansonia, CT

Date: June 22, 2010

Direction: North

Description:

Current use of site. Target store.

Date: June 22, 2010

Direction: East

Description:

Current use of site – large parking lot outside store.

Site CT-41
Ansonia, CT

Date: June 22, 2010

Direction: East

Description:

Equipment and material storage area at the south end of the site.

Date: June 22, 2010

Direction: South

Description:

Naugatuck River showing levees with rip rap adjacent to the site.

Parcel	MBL
1	04500660000
2	04500630000
3	MBL not available
4	04500640003
5	04500650000
6	046028A0000
7	04600240001
8	046025A0001
9	04500670000
10	04500140000
11	MBL not available

Site CT-41 Ansonia, CT

Potential Dewatering Site

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Site CT-50
East Hartford, CT
N
Ensign St
Willowbrook Rd
Riverside Dr
Lawn/
Garden
Connecticut
River
Goodwin
College
2
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State
Listed Species
Habitat
Dewatering Site
0
1000
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's
(CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database
Areas (CT DEP, 2010)
US Army Corps
of Engineers
Date: 8-19-10
File: TO-0024_LIS_CT-50-2.ai

Site CT-50

East Hartford, CT

Site Address	133/195 Riverside Dr., East Hartford, CT
General Description	Site is property of Goodwin College. Formerly an oil terminal. The site has been remediated and redeveloped into a college campus.
Ownership/POC	Goodwin College Brian Howell, (860) 528-4111 ext. 2031
Zoning	Town of Fairfield Flood Plain District
Surrounding Land Use	Residential; College; Connecticut River to the west.
Wetlands	No mapped wetlands on site, but CT river and riparian zone abuts the site.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Mapped Soils	Udorthents - Urban land complex (306); southeast corner Ninigret and Tisbury soils, 0 to 5 percent slopes (21A).
Staging Area	n/a
Dewatering Capacity	None at this time; college administration building existing on site and plans are in place for expansion into neighboring areas.
Land Access	Rte 2 to High St.; access road is Riverside Drive.
Water Access	Connecticut River
Additional Considerations	Site was at one time an oil terminal. Oil was transported to site via the Connecticut River and offloaded to tanks on site. Tanks have been removed and site has been developed into Goodwin College. Recent college expansion includes a new administration building and courtyard/lawn area on the parcel of interest. The site is therefore not available for dewatering. The college does own land south of the selected parcel; however this is riparian/wetland habitat and school has plans to conduct field courses in this area. Site "Not Feasible" for dewatering.

Site CT 50
East Hartford, CT

Date: July 14, 2010

Direction: West

Description:

View of Connecticut River from Goodwin College administration building where selected parcel is located.

Date: July 14, 2010

Direction: South

Description:

Area of recent tank removal behind administration building. Plans in place to expand college in this area.

Site CT 50
East Hartford, CT

Date: July 14, 2010

Direction: South

Description:

Goodwin College administration building on selected site

Date: July 14, 2010

Direction: North

Description:

Goodwin College lawn/garden area outside administration building

Parcel	MBL
1	9-1
2	10-2
3	9-2
4	10-79
5	10-151
6	9-11
7	9-5
8	10-55/56
9	9-12
10	10-165
11	10-54

Site CT-50 East Hartford, CT

Potential Dewatering Site

Site CT-8
Fairfield, CT

Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 500 1000 1500
Feet

Image Source: Google©2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_CT-8-2.ai

Site CT-8
Fairfield, CT

Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
Staging Area
Berm
Dewatering Area

0 1000
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-3-10
File: TO-0024_LIS_CT-8-4.ai

Site CT-8

Fairfield, CT

Site Address	183 One Rod Highway, Fairfield, CT
General Description	Site is town property. Area of interest is used for material recycling, asphalt processing. Larger town parcel also includes DPW offices, wastewater treatment plant, and construction materials storage.
Ownership/POC	Town of Fairfield, CT Steve Bartlett, Assistant Director, Fairfield DPW (203) 256-3010
Zoning	Town of Fairfield Flood Plain District
Surrounding Land Use	Wetland/open space; closed & capped landfill; residential.
Wetlands	Yes. Mapped and observed wetlands adjacent to, and on parcel on south, east, and north sides.
State and Federally Listed Species Habitat	No.
Mapped Soils	Dumps (302); southwestern portion Westbrook mucky peat (98); small northeastern portion Udorthents - Urban land complex (306).
Staging Area	Room for staging areas at the end of access roads on the north and east sides.
Dewatering Capacity	47,800 cy
Land Access	I-95 is approximately 2 miles from the site. One Rod Highway provides access to the site. This is a secondary road with no limitations to heavy equipment or truck access. MetroNorth railroad is approximately 1 mile.
Water Access	Pine Creek runs along site and connects to LIS. Approximate water depths 2-10 ft. No facilities available for transferring material to shore. No docks, no bulkhead.
Additional Considerations	Site currently used for Town of Fairfield recycling and for a private asphalt recycling facility, and has been used in such endeavors for the past 28+ years. Site operator does not anticipate an ability to dewater dredged material on the site in the foreseeable future. Residential parcels on Fairfield Beach Road – generally these homeowners have voiced concern over various uses of the site. Plans are in place to establish a walking path along the edge of the parcel, on berms adjacent to the marsh. Wetlands on and adjacent to site. Setbacks required. Berm failure could potentially damage wetlands. Soils may be unstable, as site was previously used as a municipal waste site, and later for dumping brush. Sink holes and potholes appear frequently. FEMA AE-Zone. Site "Potentially Viable in the Future" for dewatering.

Site CT 8
Fairfield, CT

Date: June 22, 2010

Direction: West

Description:

Current use of site for asphalt recycling.

Date: June 22, 2010

Direction: East

Description:

Current use of site for yard waste recycling.

Site CT 8
Fairfield, CT

Date: June 22, 2010

Direction: Southwest

Description:

View from top of berm alongside the asphalt recycling area, showing wetland adjacent to site.

Date: June 22, 2010

Direction: South

Description:

View from top of berm showing adjacent salt marsh and water access via Pine Creek.

*Parcel numbers on next page

Site CT-8 Fairfield, CT

Potential Dewatering Site

Parcel	MBL	Parcel	MBL	Parcel	MBL
1	2342880000	37	1831560000	73	1842240000
2	1825280000	38	1831570000	74	1842230000
3	2321150000	39	183194A0000	75	1842220000
4	2320290000	40	1831940000	76	1842210000
5	2320010000	41	1830230000	77	1842200000
6	2320140000	42	1831520000	78	1842190000
7	2320440000	43	1831510000	79	1842180000
8	182597A0000	44	1831500000	80	1842170000
9	1825970000	45	1831490000	81	1842160000
10	1824850000	46	1831480000	82	1842150000
11	1825270000	47	1831470000	83	1842140000
12	1824320000	48	1831460000	84	1842130000
13	1832790000	49	1831450000	85	1842120000
14	1832780000	50	1831440000	86	1842110000
15	1832770000	51	1825300000	87	1842100000
16	1832760000	52	2342880000	88	1842090000
17	1832750000	53	1842450000	89	1842080000
18	1832740000	54	1842430000	90	1842070000
19	1832730000	55	1842420000	91	184206A0000
20	1832680000	56	1842410000	92	1842060000
21	1832670000	57	1842400000	93	1842050000
22	1832660000	58	184239A0000	94	1842040000
23	1832650000	59	1842390000	95	1842020000
24	1832640000	60	1842380000	96	1842010000
25	1832630000	61	1842370000	97	1842000000
26	1832620000	62	1842360000	98	1841990000
27	1832610000	63	1842350000	99	1841980000
28	1832600000	64	1842340000	100	1841970000
29	1832590000	65	1842330000	101	1841960000
30	1832580000	66	1842320000	102	1841930000
31	1832570000	67	1842310000	103	1841900000
32	1832560000	68	1842300000	104	1841870000
33	1832550000	69	1842290000	105	1841850000
34	1831970000	70	1842280000	106	1841840000
35	1832210000	71	1842260000	107	1841830000
36	1831550000	72	1842250000	108	1841820000
				109	1841810000

Site CT-8 Fairfield, CT

Potential Dewatering Site

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Site CT-30-A
Hamden and North Haven, CT

Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_CT-30-A-2.ai

Site CT-30-A
Hamden and North Haven, CT

Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
Staging Area
Berm
Dewatering Area

0 400 800 1200
Feet

Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-3-10
File: TO-0024_LIS_CT-30-A-4.ai

Site CT-30-A

Hamden, CT

Site Address	2895 State St., Hamden, CT
General Description	This site has two distinct areas: north side is a CT DEP Remediation Site (the "Tire Pond") where a previously unpermitted tire disposal area is being filled and capped. The south side of the site is used for materials recycling by the site owner.
Ownership/POC	Joseph Faricelli, site owner/operator (203) 287-5424 CT DEP owns tidal/wetland areas on west side of site, and has taken over the remediation of the northern portion of the site. POC Brian Dexter (603) 423-1016, Project Manager at Laurero Engineering Associates, who are coordinating the remediation project with CT DEP. Site visit/interview with Rick Brainerd, engineer at Laurero Engineering (860) 747-6181.
Zoning	CDD1, IG80
Surrounding Land Use	Wetland/open space; industrial; residential just beyond industrial area to west.
Wetlands	No. Mapped wetlands on the north end of the site and on adjacent properties to the east and south.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers most of the site.
Mapped Soils	Water (W); eastern and southern edges Udorthents - Urban land complex (306). Note much of site is mapped as "water" but the former pond is now filled with tires and will soon be capped with clean fill.
Staging Area	Staging areas exist on site, both on the northern parcel where fill will soon be used in remediation, and on the southern end where materials recycling is conducted.
Dewatering Capacity	99,600 cy – south end of site only; site owner currently not amenable to use of the site for dewatering. Site also has capacity for 690,000 cy of dry fill material to be used in the remediation project. There is a plan in place to set up a weigh station and start accepting material in fall 2010. Dry dredged material may be appropriate for this area.
Land Access	Rte 5/State St. Approximately .5 mile to I-91; 5 miles to I-95. Railroad runs along west side of site.
Water Access	No direct access to site by water. Quinnipiac River is adjacent to site but water depth is inadequate for barges, and there are no docking facilities or shore stabilization structures. Depths range from approximately 4 to less than 1 ft in this area of the river.

Additional Considerations	Northern parcel of site currently undergoing remediation by CT DEP. This area has capacity for dry material to be trucked to site. Dewatered dredged material could potentially be placed here, if it is acceptable. The protocol for testing and acceptability is being finalized, and site will start accepting material in fall 2010. Dewatering on the southern portion of the site may be feasible if site use changes. Constraints here include lack of water access to the site, and distance from deep water (approximately 5 miles), so pumping a slurry to the site may be infeasible. Note: photos are from the northern portion of the site only, as the site operator at the materials recycling area did not grant access. FEMA AE-Zone. Site "Potentially Viable in the Future" for dewatering.

Site CT-30-A
Hamden, CT

Date: August 4, 2010

Direction: East

Description:

Remediation area at northern portion of site. Some fill material has been placed and site will accept more starting in fall 2010.

Date: August 4, 2010

Direction: East

Description:

Site is adjacent to Quinnipiac River, but water is very shallow and access by barge would not be possible.

Site CT-30-A
Hamden, CT

Date: August 4, 2010

Direction: East

Description:

Staging areas will be set up adjacent to fill area.

Date: August 4, 2010

Direction: West

Description:

Remediation area drainage basin/sediment trap in background; process material on access road in foreground.

Parcel	MBL
1	2332-014-00-0000
2	2332-013-00-0000
3	035020000
4	2432-019-00-0000
5	2432-016-00-0000
6	2432-017-00-0000
7	MBL not available
8	026050000
9	026053000

Site CT-30-A Hamden and North Haven, CT

Possible Dewatering Site

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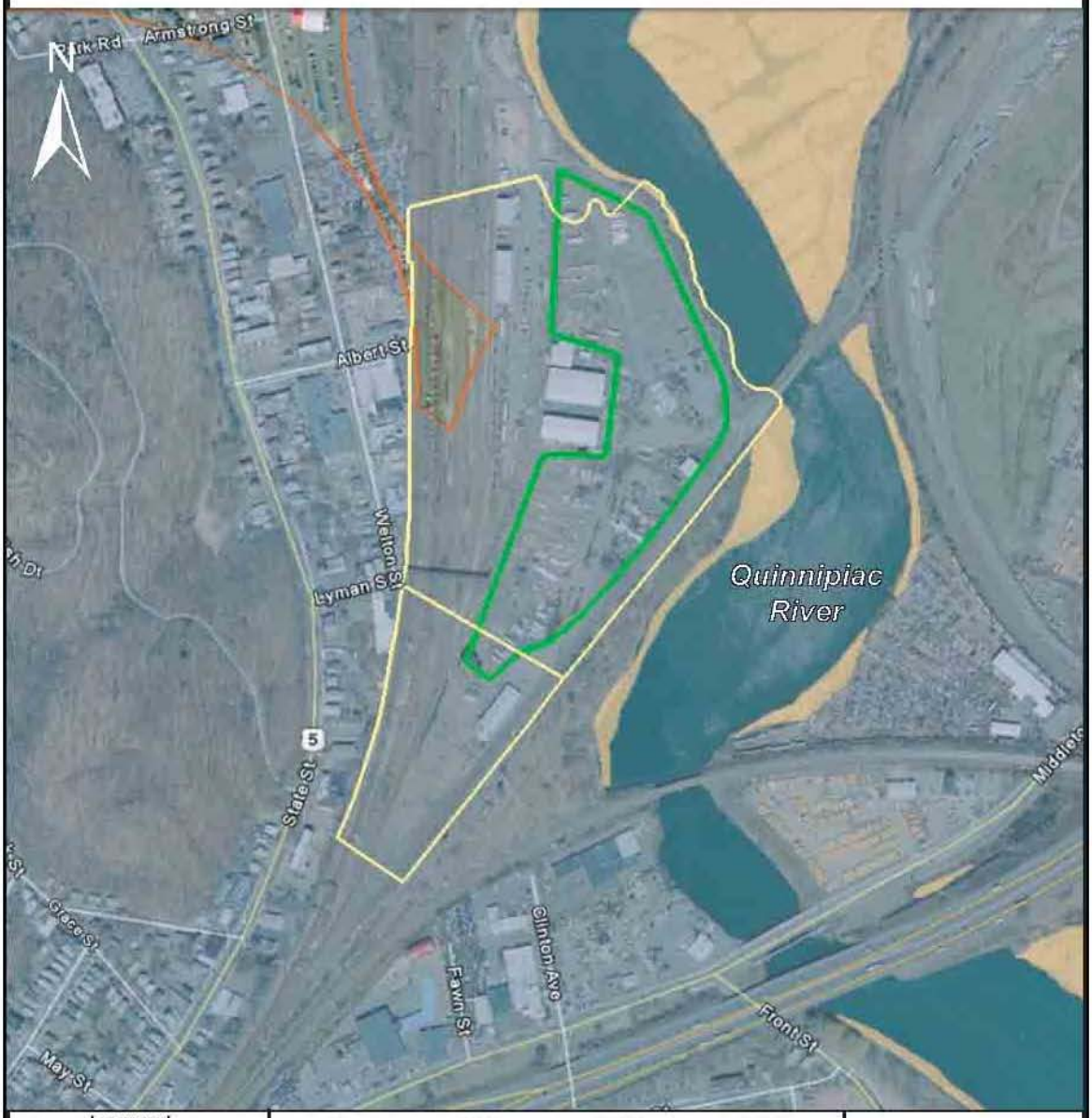
Site CT-28
New Haven, CT



Legend

Mapped Wetlands
- Tidal Wetland

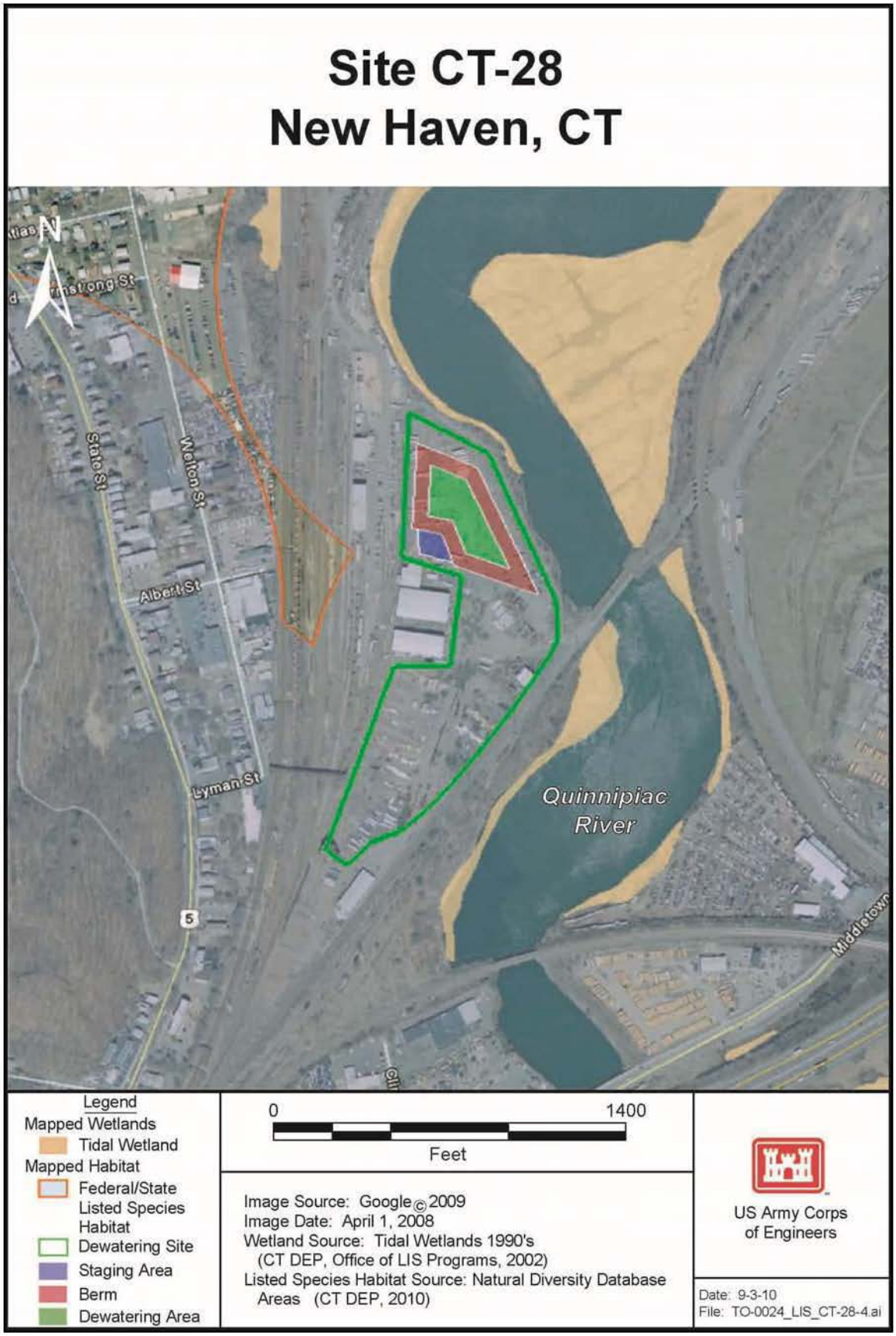
Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 500 1000 1500
Feet

Image Source: Google©2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_CT-28-2.ai


Site CT-28
New Haven, CT
N
State St
Welton St
Albert St
Lyman St
Quinnipiac River
5
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
Staging Area
Berm
Dewatering Area
0
1400
Feet
Image Source: Google © 2009
Image Date: April 1, 2008
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 9-3-10
File: TO-0024_LIS_CT-28-4.ai

Site CT-28

New Haven, CT

Site Address	80 Middletown Ave., New Haven, CT
General Description	This is a truck and rail reloading facility located on the western shore of the Quinnipiac River just north of the I-91 over pass.
Ownership/POC	Conrail holds title to the parcel. The Anastasio Group leases the land. Andy Anastasio Jr. (203) 787-5746
Zoning	IH Heavy Industrial
Surrounding Land Use	Extensive wetland to the north and Quinnipiac River on west side of parcel; industrial and residential areas in vicinity; open space (West Rock Park) to west.
Wetlands	Yes. Mapped wetlands on site along the river and to the north.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Mapped Soils	Udorthents - Urban land complex (306).
Staging Area	Staging areas for equipment currently on site. Entire site is flat, and trucks and equipment are used and stored on site.
Dewatering Capacity	23,100 cy
Land Access	Middletown Ave. to access road just before the I-91 overpass. I-91 is less than 1 mile from the site.
Water Access	Quinnipiac River. River depths are approximately 15 ft at mid-channel to the Ferry St. Bridge, then approximately 8.4 ft at the Grand Avenue Bridge. River becomes shallower between Grand Avenue Bridge and the site, and depth at the site is 6 ft or less. Material may need to be pumped to the site from the I-91 bridge area due to low fixed bridges at I-91 and Middletown Ave. These bridges have clearance of less than 6 ft. Bridges down river have better clearance: the Ferry St. Bridge has 25 ft, the Grand Ave. Bridge has center-pier swing span clearance 9 ft. Barges could potentially pass to a spot north of the Ferry St. Bridge and pump material to site. A right-of-way exists along the river where the oil company runs a line to storage tanks just north of the site.
Additional Considerations	The site is used for truck and rail reload/distribution and has a vacant area on the north side of the parcel that could be used for dewatering. Site owner/operator is amenable to the idea. Material may need to be pumped to the site if it was transported by river, as the fixed bridges on the site (railroad bridge) and just below the site on the river (Middletown Ave. Bridge) are very low. Currently there is no material onsite for building berms. May need to bring in material for this purpose. Site has direct access to rail and major highway (Rte. 91). Wetland adjacent to site. Setbacks and drainage/discharge issues would need to be addressed. Site is in FEMA AE-Zone. Site "Currently Viable" for dewatering.

Site CT-28

New Haven, CT

Date: June 16, 2010

Direction: North

Description:

Currently vacant area on site that could be used for dewatering.

Date: June 16, 2010

Direction: East

Description:

Fixed bridge with very low clearance just downstream of the site on Quinnipiac River. Barges would not be able to access the site directly, so material would need to be pumped up from below the low fixed bridges.

Site CT-28
New Haven, CT

Date: June 16, 2010

Direction: North

Description:

Material could potentially be pumped to a dewatering basin via a right-of-way along the west side of the river. There is currently a right-of-way for an oil pipeline through this area.

Date: June 16, 2010

Direction: South

Description:

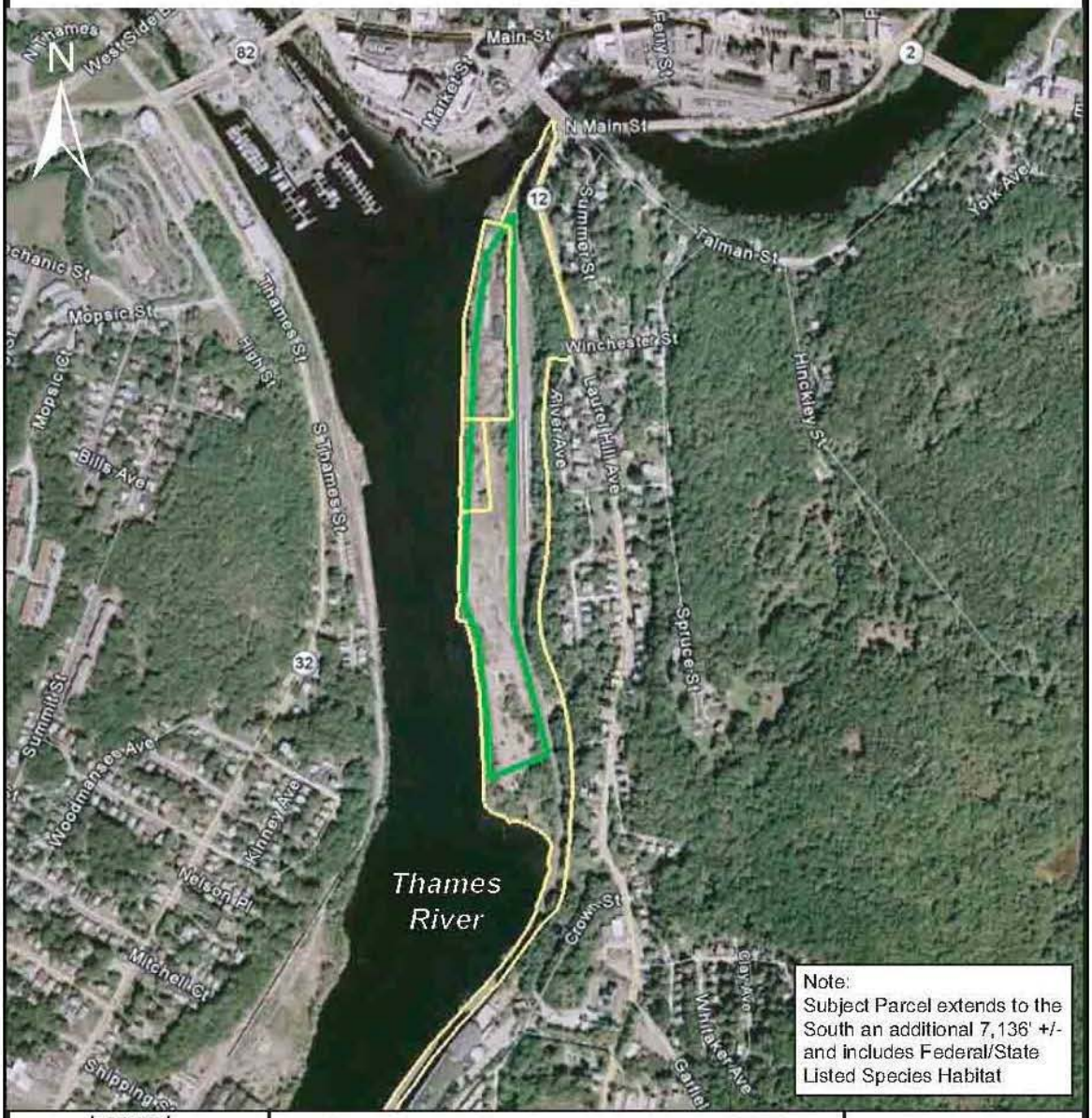
Wetland area adjacent to site.

Parcel	MBL
1	MBL not available
2	152 0842 00600
3	152 0842 00700
4	152 0841 00100
5	154 0840 01500
6	152 0841 00200
7	154 0840 01400
8	154 0840 01000
9	154 0840 00900
10	154 0840 00800
11	154 0840 00700
12	154 0840 00500
13	154 0840 00400
14	154 0840 00300
15	2031-014-00-0000
16	152 0841 00300
17	154 0840 00200
18	2031-020-00-0000
19	2031-018-00-0000
20	2031-017-00-0000
21	155 0836 00102
22	155 0836 00300

Site CT-28 New Haven, CT

Possible Dewatering Site

Site CT-54
Norwich, CT



Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

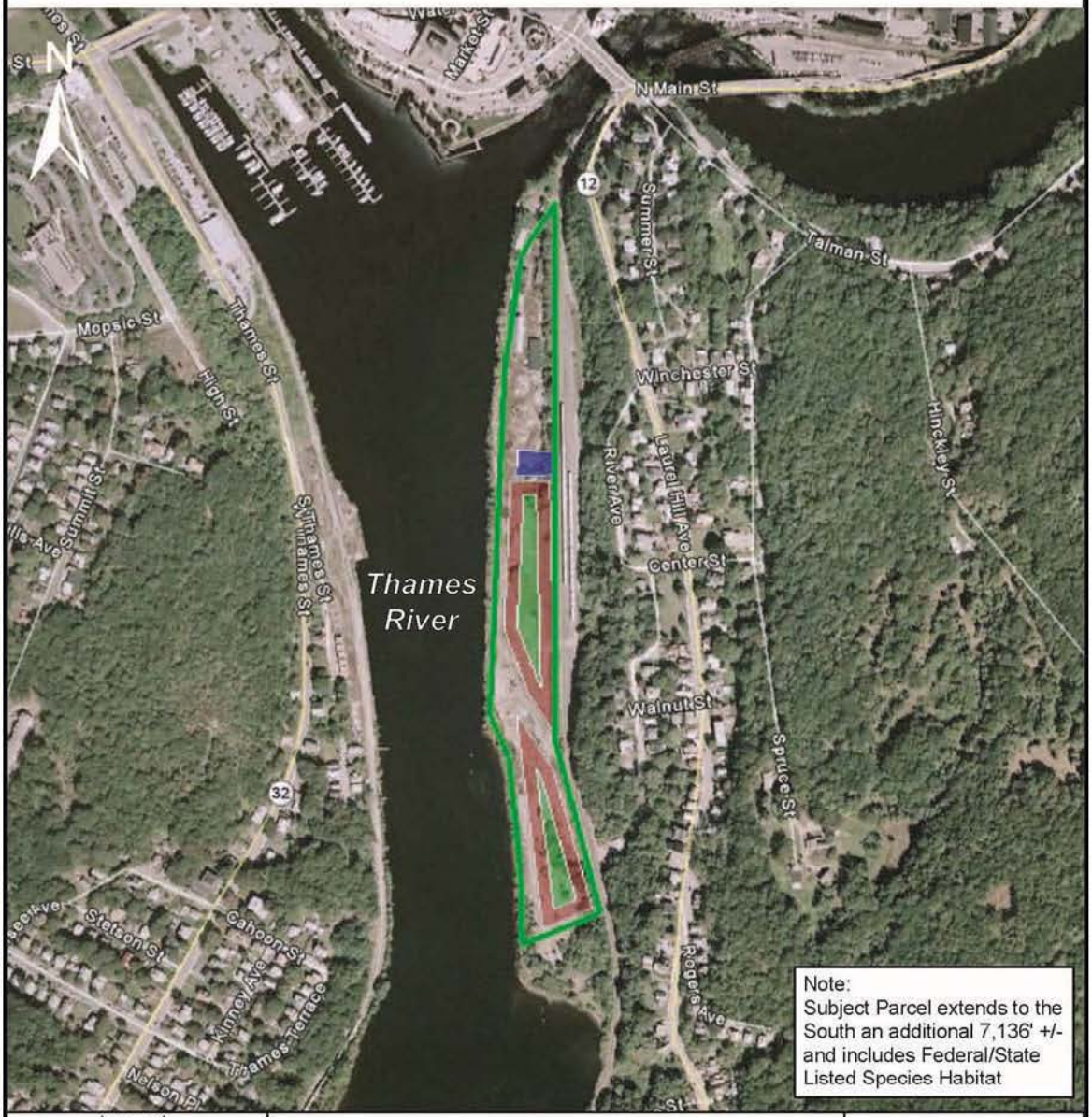
0 2000
Feet

Image Source: Google©2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_CT-54-2.ai

Site CT-54
Norwich, CT



Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
Staging Area
Berm
Dewatering Area

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-3-10
File: TO-0024_LIS_CT-54-4.ai

Site CT-54

Norwich, CT

Site Address	8 New Wharf Rd., Norwich, CT
General Description	Rail yard on the east side of the Thames River in Norwich, CT. Formerly used as a transfer station for bulk materials transported to the site by barges for regional distribution by rail. Much of parcel is currently inactive, but trains do run through the site. Northern part of parcel is leased to Shetucket Iron Co.
Ownership/POC	Providence and Worcester Railroad Co. Bernie Cartier, Operations (508) 459-4545 Dave Cuthbertson, Engineer (508) 755-4000 ext. 252
Zoning	WD Waterfront Development
Surrounding Land Use	Residential and major roadways to the east; Thames River to the west.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Udorthents - Urban land complex (306). Observations on site indicate coarse sand and gravel.
Staging Area	Room for staging areas in various places on site. None currently on site.
Dewatering Capacity	17,500 cy. Capacity is for two separate basins because railroad track runs through site. If a single basin could be constructed capacity would be larger because berm area could be reduced; however rail line would need to be moved to the side of the parcel to make that possible.
Land Access	Rte 12 to small unmarked access road at north end of parcel. Access road dips down somewhat steeply at site entrance but not likely to cause problems for truck and equipment access. Approximately 3 miles to Rte. 395. Railroad runs through site.
Water Access	Thames River; water depth at the site is approximately 15ft. Depth in the channel is 15-22 ft and is navigable all the way to Long Island Sound (approximately 14 miles downriver). Depth in the turning basin just north of the site is 12 ft. Wood and stone bulkhead on along portions of the shoreline and barge access feasible. Bulkhead appears solid but may need maintenance or upgrade prior to use.
Additional Considerations	Site has both deep water and rail access. POC indicates few restrictions on type of freight. Trains can carry most types of material including HazMats; POC believes the railroad managers may be amenable to using the site for dewatering. Site has a sewer line underground, and overhead electric power lines, but they may be inactive; lines appear to be cut. FEMA AE-Zone. Site "Currently Feasible" for dewatering.

Site CT-54
Norwich, CT

Date: July 16, 2010

Direction: West

Description:

Current use of site – vacant land adjacent to river.

Date: July 16, 2010

Direction: South

Description:

Rail line runs through site.

Site CT-54
Norwich, CT

Date: July 16, 2010

Direction: South

Description:

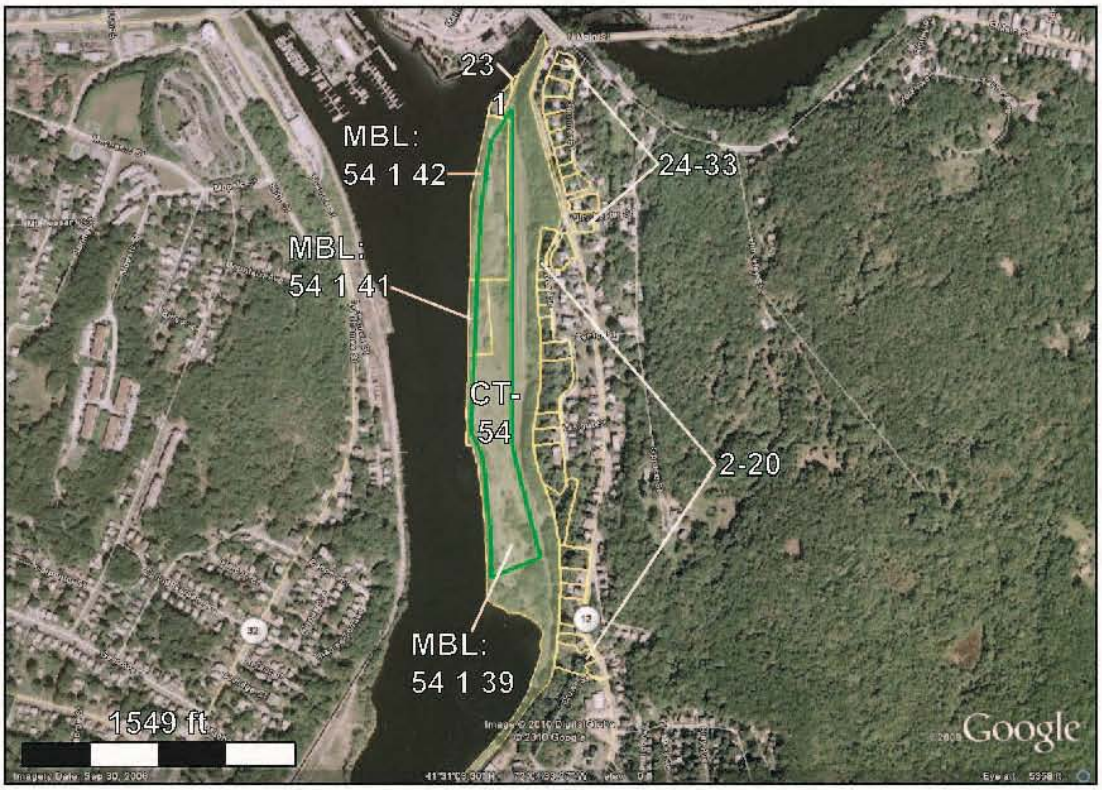
Access road to site from north.

Date: July 16, 2010

Direction: West

Description:

Wood/stone bulkhead at shore. Site was formerly used to offload bulk materials from barges for distribution by train.



Parcel	MBL	Parcel	MBL
1	56 35 43	18	54 1 5
2	54 1 38	19	54 1 4
3	54 1 37	20	54 1 3
4	54 1 36	21	56 34 1
5	54 1 35	22	56 34 2
6	54 1 34	23	56 35 2
7	54 6 8	24	56 34 3
8	54 1 32	25	56 34 4
9	54 8 7	26	56 34 5
10	54 1 30	27	56 34 6
11	54 1 29	28	54 2 3
12	54 1 28	29	54 2 2
13	54 1 27	30	54 2 1
14	54 1 9	31	54 3 1
15	54 1 8	32	54 7 7
16	54 1 7	33	54 6 1
17	54 1 6		

Site CT-54 Norwich, CT

Potential Dewatering Site

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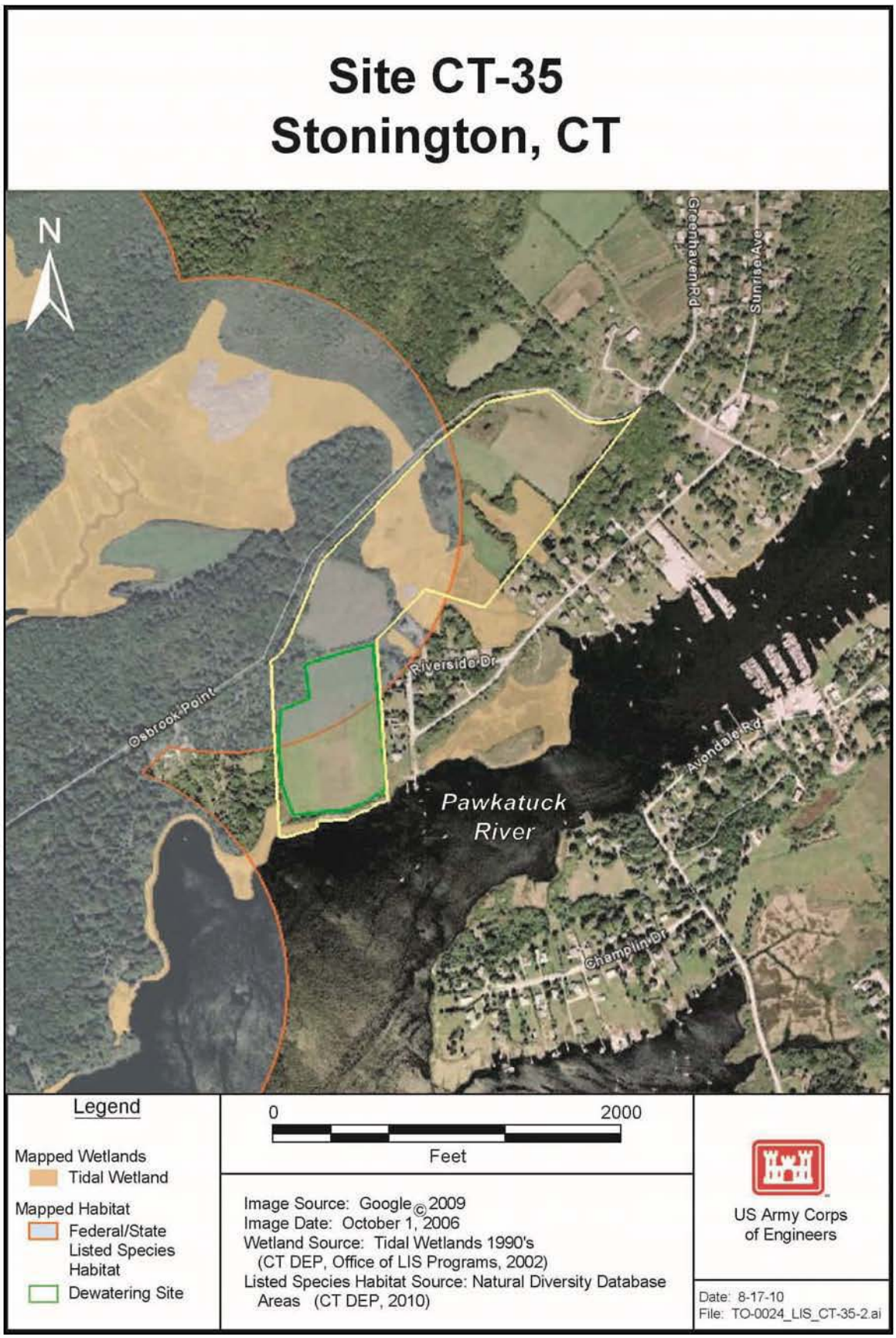
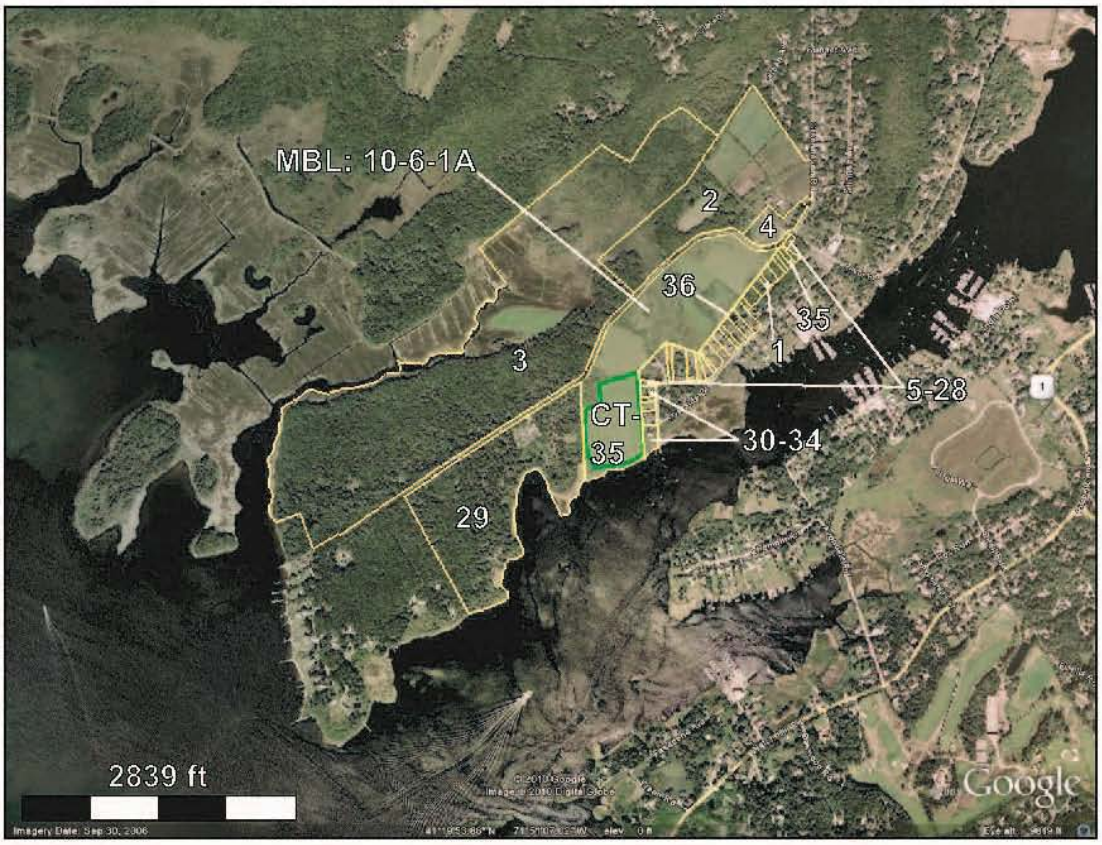

Site CT-35
Stonington, CT
N
Greenhaven Rd
Sunrise Ave
Riverside Dr
Osbrook Point
Avondale Rd
Pawkatuck River
Champlin Dr
Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
2000
Feet
Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)
US Army Corps of Engineers
Date: 8-17-10
File: TO-0024_LIS_CT-35-2.ai

Site CT-35

Stonington, CT

Site Address	Osbrook Pt., Parcel D. Stonington, CT
General Description	Site is property of Davis Lawrence Malcolm Trustees. Parcel is on Osbrook Point, near the mouth of the Pawkatuck River in Stonington. Land is in the Connecticut Farmland Preservation Program, and land use is restricted to agricultural and related uses in perpetuity. Current use is hay cultivation.
Ownership/POC	Davis Lawrence Malcolm Trustees (owner) J. Dippel, Program Director (860) 713-2511
Zoning	RC 120 Residential Coastal
Surrounding Land Use	Agriculture; open space; residential.
Wetlands	Yes. Mapped wetlands on site.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers northern one-half of the site.
Mapped Soils	Haven and Enfield soils, 0 to 3% slopes (32A); small southern portion Pawcatuck mucky peat (97).
Staging Area	None currently exists on site.
Dewatering Capacity	None. Site not feasible as land is in the CT Farmland Protection Program and dredged material placement is not an allowable land use under the program.
Land Access	Osbrook Point Rd. Approximately 3 miles to Rte. 1, 6 miles to I-95.
Water Access	Pawkatuck River mouth, north side of LIS.
Additional Considerations	J. Dippel, director of the Connecticut Farmland Protection Program, indicates that placement or dewatering of dredged material would not be an allowable land use for this parcel. The Farm Protection Program is aimed at preserving agricultural parcels in perpetuity. Therefore the site does not have capacity for dewatering now or in future. Parcel owners did not grant access to site. Therefore no photos were obtained. Cultural resources present. Site “Not Feasible” for dewatering.



Parcel	MBL	Parcel	MBL
1	10-7-7	19	9-3-26
2	10-6-1B	20	9-3-24
3	29-1-2	21	9-3-12
4	10-6-1	22	9-3-14
5	10-7-19	23	9-3-16
6	10-7-15	23	9-3-18
7	10-7-13	25	9-3-22
8	10-7-12	26	9-3-21
9	10-7-11	27	9-3-20
10	10-7-8	28	9-3-11
11	10-7-5	29	30-1-1
12	10-7-3	30	9-3-9
13	10-7-1	31	9-3-8
14	9-3-33	32	9-3-7
15	9-3-32	33	9-3-4
16	9-3-29	34	9-3-1
17	9-3-28	35	10-7-14
18	9-3-27	36	10-7-20

Site CT-35 Stonington, CT

Potential Dewatering Site


Site NY-5A/5B Northport Boat Ramp, Fields and Power Station Asharoken, NY
N
Long Island Sound
5B
5A
Hewitt Dr
North Ave
Blanchard Dr
Martin
Eatons Neck Rd
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
2500
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_NY-5A&5B-2.ai


Site NY-5A/5B Northport Boat Ramp, Fields and Power Station Huntington, NY
N
Long Island Sound
5B
5A
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
1587
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_NY-5A&5B-4.ai

Site NY-5A

Huntington, NY

Site Address	Off Waterside Ave., Huntington, NY
General Description	The site is located on the north shore of Long Island, east of the Village of Asharoken and west of the Northport power plant intake channel. The site contains recreational playing fields, a parking lot, public access/boat ramps, and coastal dunes/beaches.
Ownership/POC	Town of Huntington
Zoning	I-6 Generating station
Surrounding Land Use	Residential properties to the west and south; industrial power plant to the east.
Wetlands	Yes. Mapped and observed wetlands include coastal shoals, bars, and mudflats directly offshore of the site and near the head of the power plant intake channel.
State and Federally Listed Species Habitat	Yes. Mapped habitat in the coastal dunes and beach area.
Mapped Soils	Cut and fill land, gently sloping (CuB); northern edge Beaches (Bc); western portion Cut and fill land, steep (CuE); northwestern portion Carver and Plymouth sands, 15 to 35 percent slopes (CpE); northwestern edge Dune land (Du).
Staging Area	Existing paved parking lot could be used as staging for heavy equipment.
Dewatering Capacity	122,000 cy
Land Access	Waterside Ave. to park entrance road.
Water Access	Water access could be gained from the power plant intake channel located east of the site. The channel entrance is protected by two stone jetties; shoreline along the dewatering site does not have bulkhead/seawall/revetment, but 2 large boat ramps could provide access for pipeline and equipment. Controlling depths in the intake channel are approx. 13 ft; suitable for barges.
Additional Considerations	South portion of the site is leased to a youth soccer club and has recently been developed into playing fields; this area is not available for dewatering. The parking lot is used in conjunction with the boat ramps for public access to LIS; this area is not available for dewatering, but could be used for staging equipment. The coastal dune and wooded area of the site could potentially be used for dewatering; the dune has been used in the past for dewatering dredged material from the power plant. Time of year restrictions would likely be necessary to protect mapped habitat. Use of the wooded area would require tree removal. Cultural resources present. FEMA VE-Zone and AE-Zone. Site "Currently Feasible" for dewatering.

Site NY-5A
Huntington, NY

Date: July 15, 2010

Direction: Northwest

Description:

Parking lot near center of site that provides access to adjacent boat ramp.

Date: July 15, 2010

Direction: South

Description:

Current use of south portion of the site as soccer playing fields.

Site NY-5A
Huntington, NY

Date: July 15, 2010

Direction: West

Description:

Beach and dune profile along the LIS shoreline of the site.

Date: July 15, 2010

Direction: West

Description:

Boat ramps that provide access to the power plant intake channel and LIS.

Parcel	DSBL	Parcel	DSBL
1	0400007000100003000	22	0404002000200001000
2	0400007000100004000	23	0404002000200005000
3	0400010000100004001	24	0404002000200006000
4	0400010000100005000	25	0404002000200007000
5	0400010000100007000	26	0400007000300001000
6	0400010000200002004	27	0400010000200001000
7	0400010000200002006	28	0401008000200033000
8	0400010000200035000	29	0401008000200037000
9	0400010000200036000	30	0400007000200003000
10	0400010000200042000	31	0401008000200036000
11	0400011000100040001	32	0404002000200004000
12	0400012000100003001	33	0404002000200027001
13	0401008000100028000	34	0400007000200004000
14	0401008000100030003	35	0401008000200034000
15	0401008000100030004	36	0400010000100001000
16	0401008000200030000		
17	0401008000200031000		
18	0401008000200032000		
19	0401008000200035000		
20	0404001000100001000		
21	0404001000100028000		

Site NY-5A & 5B Huntington, NY

Possible Dewatering Site


Site NY-5A/5B Northport Boat Ramp, Fields and Power Station Asharoken, NY
N
Long Island Sound
5A
5B
Eatons Neck Rd
Hewitt Dr
North Ave
Blanchard Dr
Martin
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
2500
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_NY-5A&5B-2.ai


Site NY-5A/5B Northport Boat Ramp, Fields and Power Station Huntington, NY
N
Long Island Sound
5B
5A
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
1587
Feet
Image Source: Google© 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 8-24-10
File: TO-0024_LIS_NY-5A&5B-4.ai

Site NY-5B

Huntington, NY

Site Address	Waterside Ave./Eatons Neck Rd., Huntington, NY
General Description	The site is located on the north shore of Long Island, east of the Village of Asharoken. The site is operating as a natural gas and conventional oil electric power generating station.
Ownership/POC	National Grid USA – KeySpan Energy Bob DeMoustes (631) 262-2273
Zoning	I-6 Generating station
Surrounding Land Use	Residential properties to the east and south; municipal open space and recreational fields to the west.
Wetlands	Yes. Mapped and observed wetlands include coastal shoals, bars, and mudflats directly offshore of the site and near the head of the adjacent intake channel.
State and Federally Listed Species Habitat	Yes. Mapped habitat in the coastal dunes and beach area.
Mapped Soils	Cut and fill land, gently sloping (CuB); northern and western edges Beaches (Bc).
Staging Area	Potential staging could be developed at the end of the power plant entrance road near the northeast corner of the dewatering site. The entrance road is accessible from North County Rd. The area is currently covered with grasses and would not require the removal of any trees.
Dewatering Capacity	63,000 cy
Land Access	Waterside Ave. to power plant entrance road.
Water Access	Water access could be gained from the power plant intake channel located east of the site. The channel entrance is protected by two stone jetties; shoreline along the dewatering site is armored with a rip rap revetment and could provide access for pipeline and equipment. Controlling depths in the intake channel are approx. 13 ft; suitable for barges.
Additional Considerations	The site is currently a grassy lawn area in front of the power plant main office building. The POC indicated that this area would not likely be available for dewatering; however, the more seaward dune and beach area has been used in the past for dewatering sandy material dredged from around the facility. The operator would prefer to see 3rd party dredged materials dewatered on the adjacent Town of Huntington property (Site-5A). Security at the site is governed by MARSEC; this would impose strict security measures on use of the site as a dewatering area. Cultural resources present. Site "Potentially Viable in the Future" for dewatering.

Site NY-5B
Huntington, NY

Date: August 2, 2010

Direction: North

Description:

Current use of site as grassy lawn in front of main office building for power plant.

Date: August 2, 2010

Direction: Northeast

Description:

Current use of site as grassy lawn in front of main office building for power plant.

Site NY-5B
Huntington, NY

Date: August 2, 2010

Direction: East

Description:

Beach profile seaward of the dewatering area that has been used for dredged materials dewatering previously.

Date: August 2, 2010

Direction: West

Description:

Beach profile seaward of the dewatering area showing entrance channel jetties in the background.

Parcel	DSBL	Parcel	DSBL
1	0400007000100003000	22	0404002000200001000
2	0400007000100004000	23	0404002000200005000
3	0400010000100004001	24	0404002000200006000
4	0400010000100005000	25	0404002000200007000
5	0400010000100007000	26	0400007000300001000
6	0400010000200002004	27	0400010000200001000
7	0400010000200002006	28	0401008000200033000
8	0400010000200035000	29	0401008000200037000
9	0400010000200036000	30	0400007000200003000
10	0400010000200042000	31	0401008000200036000
11	0400011000100040001	32	0404002000200004000
12	0400012000100003001	33	0404002000200027001
13	0401008000100028000	34	0400007000200004000
14	0401008000100030003	35	0401008000200034000
15	0401008000100030004	36	0400010000100001000
16	0401008000200030000		
17	0401008000200031000		
18	0401008000200032000		
19	0401008000200035000		
20	0404001000100001000		
21	0404001000100028000		

Site NY-5A & 5B Huntington, NY

Possible Dewatering Site

Site NY-18
Bronx, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 500 1000 1500
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_NY-18-2.ai

Site NY-18
Bronx, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 395 790 1185
Feet

Image Source: Google© 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

Dewatering Area Berm Staging Area

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_NY-18-4.ai

Site NY-18

Bronx, NY

Site Address	504 Barry St., Bronx, NY
General Description	The site is a former landfill and material reloading facility on the East River. Northern part of parcel is a former landfill that is currently being capped. Other areas on site are currently being used for material processing and bulk storage.
Ownership/POC	Oak Point Property, LLC Steve Smith, Owner/Developer (609) 577-7703
Zoning	M3-1 Heavy manufacturing - low performance - heavy manufacturing use
Surrounding Land Use	Industrial; freeway.
Wetlands	Yes. Wetlands observed along shoreline area.
State and Federally Listed Species Habitat	No.
Mapped Soils	Laguardia-Ebbets-Pavement & buildings, wet substratum complex, 0 to 8% slopes (7).
Staging Area	Room for staging areas on site. Can be set up to accommodate dewatering area.
Dewatering Capacity	30,500 cy
Land Access	Buckner Expressway to Barry St. to access road. These roads can accommodate trucks and heavy equipment. Railroad access on site.
Water Access	East River just north of North Brother Island (west of Ryker's Island). Water depth 15 ft adjacent to site; 30+ ft offshore. Site has wood piles and bulkhead.
Additional Considerations	The northern area of this site is a former landfill, being capped per a DEP/site owner closure plan. This area is slated for development. The southern portion of site is now used as a storage area, but could become available for dewatering. Access to the site via deep water, rail, or major road is possible. In the past rail cars offloaded material directly onto barges and the railroad track still comes in to the site. Shoreline has a wood/stone bulkhead and old wood piles. This may need upgrading if site is accessed by barge. There is currently no material on site for building dikes, but material will soon be brought to the site for capping the landfill area on the north side of the site, and some of this material may be appropriate for building dikes. Site owner/operator is amenable to the idea of dewatering. Site is in FEMA AE-Zone. Site "Currently Feasible" for dewatering.

Site NY-18
Bronx, NY

Date: August 3, 2010

Direction: North

Description:

Current use of southern portion of site as storage facility.

Date: August 3, 2010

Direction: West

Description:

Old piles and bulkhead at shoreline.

Site NY-18
Bronx, NY

Date: August 3, 2010

Direction: East

Description:

Northern portion of site looking east – landfill closure area.

Date: August 3, 2010

Direction: North

Description:

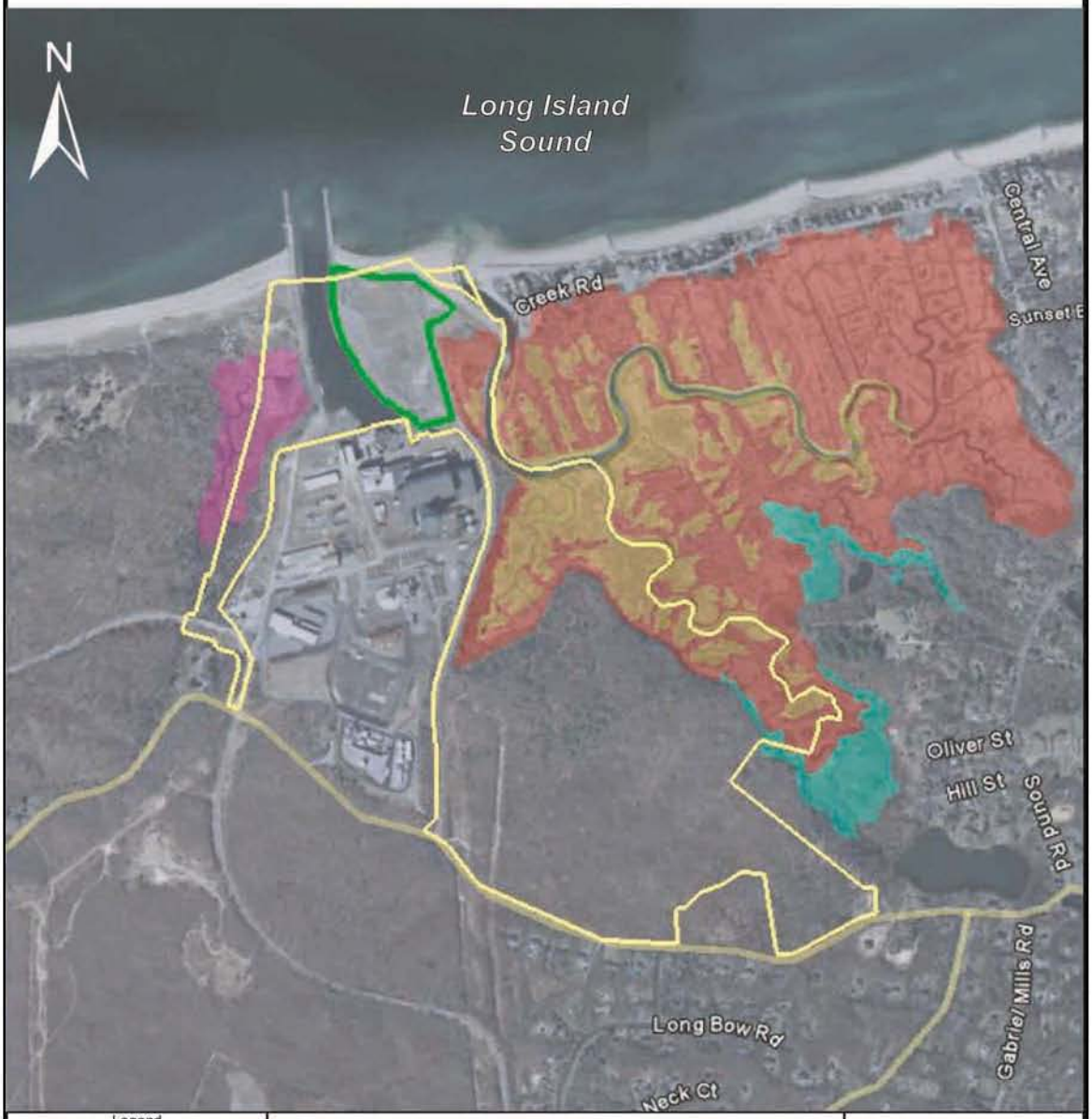
Access to shoreline from main parcel is via recently constructed ramp/roadway made with process material.

Parcel	BBL
1	Bronx 2604 140
2	Bronx 2604 074
3	Bronx 2604 600
4	Bronx 2604 280
5	Bronx 2604 195
6	Bronx 2604 500

Site NY-18 Bronx, NY

Potential Dewatering Site

Site NY-28
Brookhaven, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

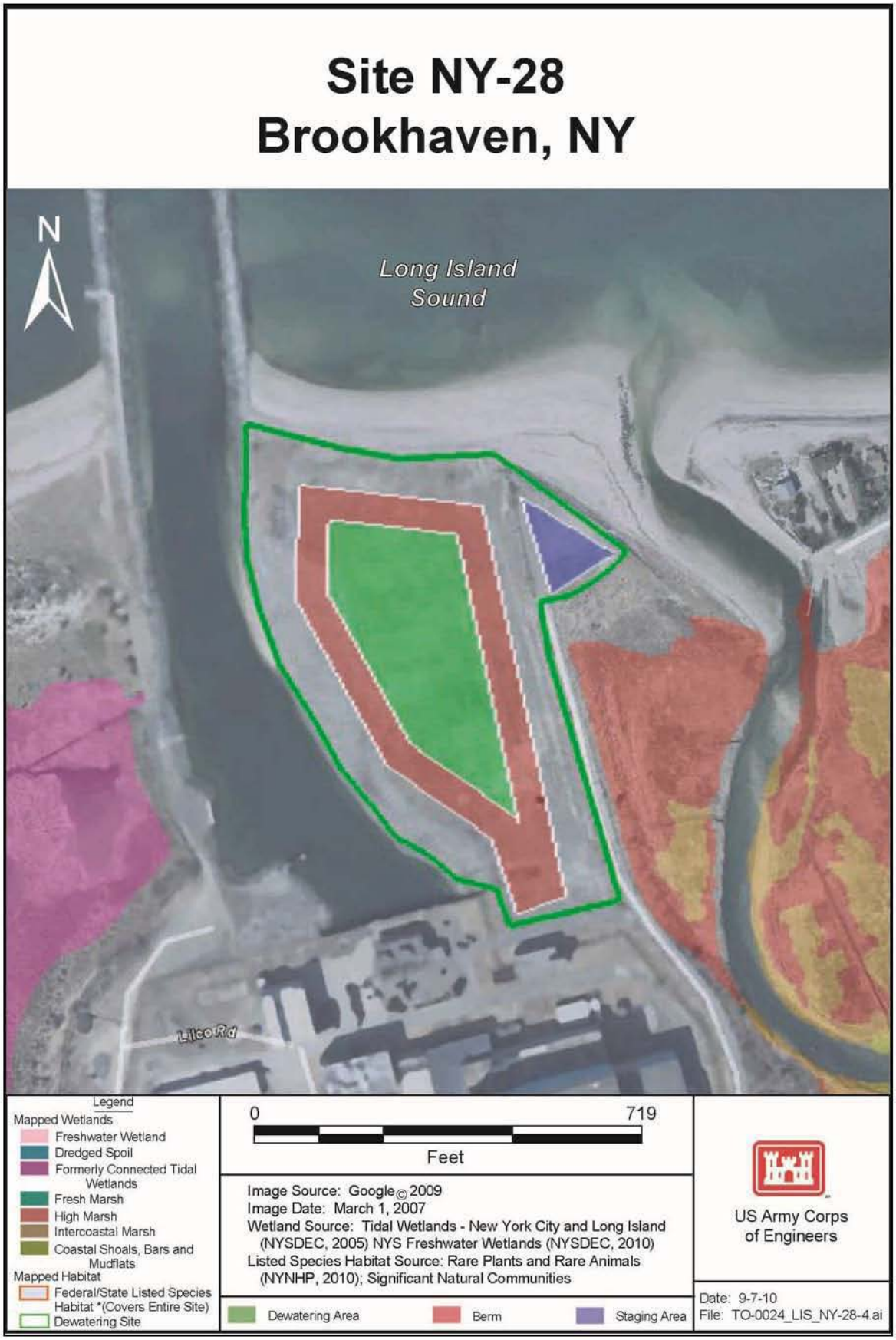
Mapped Habitat
- Federal/State Listed Species Habitat *(Covers Entire Site)
- Dewatering Site

0 1000 2000 3000
Feet

Image Source: Google©2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_NY-28-2.ai


Site NY-28
Brookhaven, NY
N
Long Island Sound
Lilco Rd
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat *(Covers Entire Site)
Dewatering Site
0
719
Feet
Image Source: Google © 2009
Image Date: March 1, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 9-7-10
File: TO-0024_LIS_NY-28-4.ai

Site NY-28

Brookhaven, NY

Site Address	North County Rd., Brookhaven, NY
General Description	The site is located on the north shore of Long Island at the location of the decommissioned Shoreham nuclear power plant. The site is currently operating a 100 MW gas turbine power plant.
Ownership/POC	Long Island Power Authority (LIPA) Edmund Petrocelli, LIPA Project Manager (631) 744-8207
Zoning	L4 50 acre Electric Utility; A1 Residential 1-family 40,000 sq ft; A2 Residential 1-family 80,000 sq ft
Surrounding Land Use	Open space to the west and south; marsh and tidal creek to the east; residential properties to the east and southeast.
Wetlands	No. Mapped wetlands adjacent to the dewatering area to the west and east.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers entire site.
Mapped Soils	Tidal marsh (Tm); northern portion Fill land, dredged material (Fd); northern edge Beaches (Bc).
Staging area	Potential staging could be developed at the end of Lilco Rd., in the northeast corner of the dewatering site. Lilco Rd. is accessible from North County Rd. The area is covered with grasses and would not require the removal of any trees.
Dewatering Capacity	42,600 cy
Land Access	North County Rd. to Lilco Rd.
Water Access	Water access could be gained from the power plant intake channel located west of the site. The channel entrance is protected by two stone jetties; a wide area of rip rap armoring protects the shoreline of the intake channel adjacent to the dewatering site. Controlling depths in the intake channel are 7-10 ft; suitable for shallow draft barges.
Additional Considerations	Site has been used previously as a dewatering area for material dredged during installation of submarine power cables from New Haven, CT.; geobags were used for dewatering and the dried material was trucked offsite; construction was limited to M-F between the hours of 8 AM and 5 PM to minimize impacts to nearby residential area. Seaward side of the site transitions into a low lying coastal dune and a beach; past Piping Plover nesting site. Security at the site is governed by MARSEC; this would impose strict security measures on use of the site as a dewatering area. Site is in FEMA VE-Zone and AE-Zone. Site "Potentially Viable in the Future" for dewatering.

Site NY-28
Brookhaven, NY

Date: July 15, 2010

Direction: North

Description:

Existing conditions at site showing flat topography and vegetation consisting of weeds and grasses.

Date: July 15, 2010

Direction: Northwest

Description:

Rip rap armoring along power plant intake channel adjacent to dewatering site shoreline (dewatering site to right of photo).

Site NY-28
Brookhaven, NY

Date: July 15, 2010

Direction: Northwest

Description:

Low lying coastal dune and beach along seaward side of dewatering site, with jetties protecting intake channel in the background.

Date: July 15, 2010

Direction: North

Description:

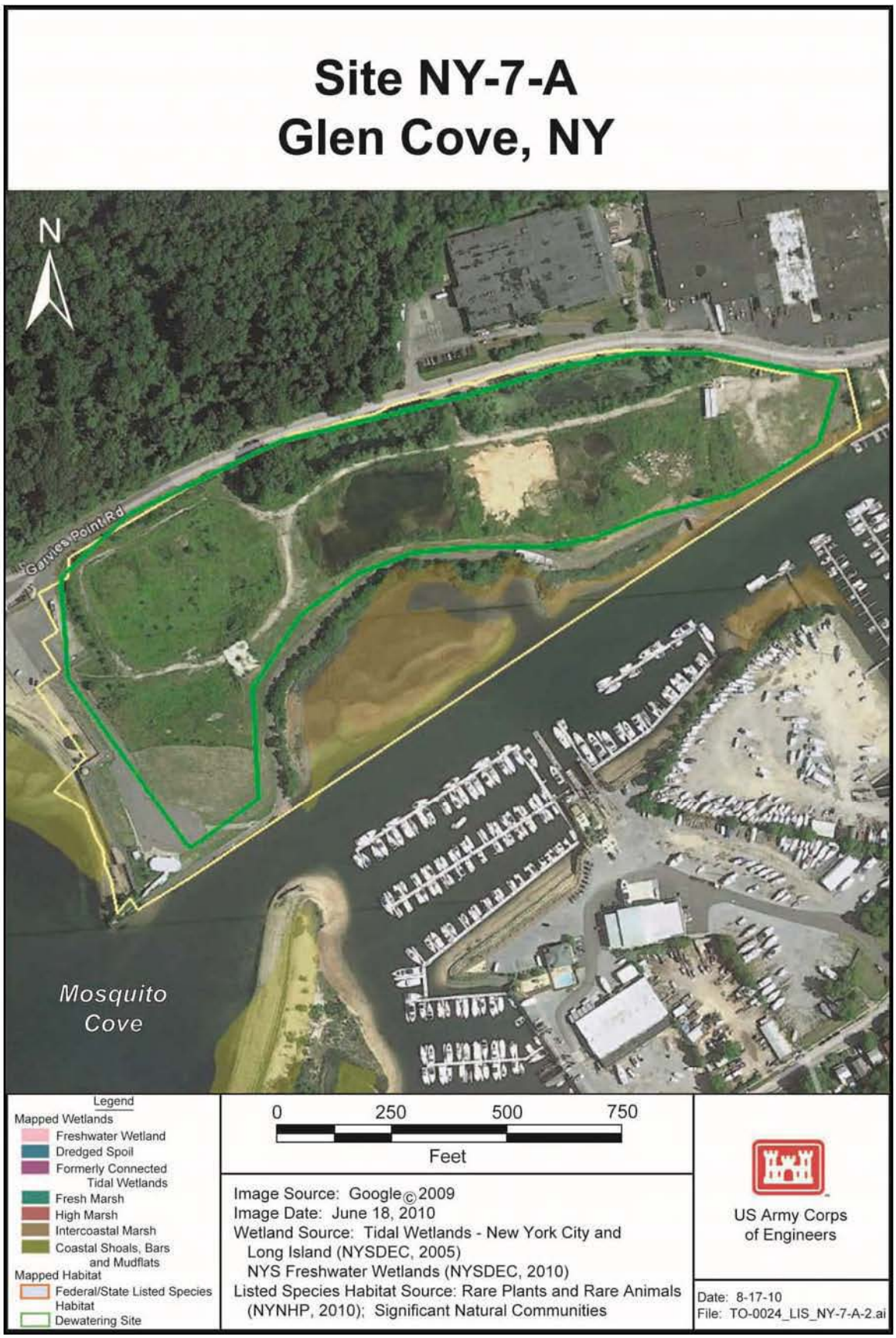
Power plant intake channel showing potential water access for barges (dewatering site to right of photo).

Parcel	DSBL
1	0200039000100001002
2	0200039000100002000
3	0200039000200002000
4	0200040000100001000
5	0200040000200001000
6	0200040000300001000
7	0200083000100003004
8	0200083000200001003
9	0200083000200001004
10	0200083000200001006
11	0200083000200001007
12	0200083000200001086
13	0200083000200001095

Parcel	DSBL
14	0600029000100001000
15	0600029000200001000
16	0600035000100013005
17	0200083000200001090
18	0200083000200001002
19	0200083000200001091
20	0200083000200001092
21	0600035000300010006
22	0200082000100005002
23	0200083000100003003
24	0200083000200001005
25	0200083000100002000
26	0600029000200002000

Site NY-28 Brookhaven, NY

Potential Dewatering Site


Site NY-7-A
Glen Cove, NY
N
Garvies Point Rd
Mosquito Cove
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0 250 500 750
Feet
Image Source: Google© 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-17-10
File: TO-0024_LIS_NY-7-A-2.ai

Site NY-7-A
Glen Cove, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 935
Feet

Image Source: Google© 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

Dewatering Area Berm Staging Area

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_NY-7-A-4.ai

Site NY-7A

Glen Cove, NY

Site Address	Garvies Point Rd., Glen Cove, NY
General Description	The site is located on the east shore of Hempstead Harbor in northwestern Long Island. It is the location of the Li Tungsten Superfund Site which has undergone remediation. The site is currently used as a waterfront park as part of the Glen Cove waterfront revitalization effort.
Ownership/POC	Glen Cove Industrial Development Agency Kelly Morris, IDA Executive Director (516) 676-1625
Zoning	MW-3Marine waterfront district 3
Surrounding Land Use	Open space and residential properties to the north; industrial properties to the west; marinas to the south.
Wetlands	None mapped within the dewatering area; mapped wetlands along the shoreline areas adjacent to the site include coastal shoals, bars, mudflats, and intertidal marsh.
State and Federally Listed Species Habitat	No mapped habitat on site.
Mapped Soils	Udorthents, refuse substratum (Uf).
Staging Area	Equipment staging possible in grassy field adjacent to paved access road at the southwest corner of the site.
Dewatering Capacity	27,300 cy
Land Access	Garvies Point Rd.
Water Access	Hempstead Harbor to Glen Cove Creek; controlling water depths in the creek at approx. 10 ft. Portions of the shoreline adjacent to the site are protected with a sheet pile bulkhead; the structure is in excellent condition; bulkhead height is approx. 6 to 10 ft above the level of Hempstead Harbor.
Additional Considerations	The northwest corner of the site contains a large basin used previously for dewatering sediment dredged from Glen Cove Creek; the depression is approx. 10 ft deep at the center and vegetated with grasses, weeds, and low growing shrubs. Remediation of the site was complete as of Summer 2008. Area is currently developed as waterfront park with a paved walking trail, interior ponds, and a educational fishing vessel display; northern end of the site is currently being developed for Glen Cove Ferry Terminal and Boat Basin. Existing plans for the remainder of the site include open space, harbor buildings, restaurant, and landscaping. Near-term (1-4 yrs) use of this site for dewatering is feasible, but coordination with the Glen Cove Industrial Development Agency's ongoing plans for waterfront revitalization would be necessary. Cultural resources present. Site "Potentially Viable in the Future" for dewatering.

Site NY-7A
Glen Cove, NY

Date: July 13, 2010

Direction: Northeast

Description:

View of remediation site showing existing basin used for sediment dewatering.

Date: July 13, 2010

Direction: South

Description:

View of remediation site showing existing vegetation and disturbed areas.

Site NY-7A
Glen Cove, NY

Date: July 13, 2010

Direction: Southeast

Description:

Upland park area with walking paths, showing typical bulkhead shore protection along much of the shoreline.

Date: July 13, 2010

Direction: Southwest

Description:

Unprotected portion of shoreline showing tidal flats, salt marsh, and vegetated coastal bank.

Parcel	SBL
1	21-A-504
2	21-A-489
3	21-A-442
4	21-259-4
5	21-259-3
6	21-259-2
7	21-A-643
8	21-A-12

Site NY-7-A Glen Cove, NY

Potential Dewatering Site

Site NY-1
Mattituck, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- DS = Dredged Spoil
- FC = Formerly Connected Tidal Wetlands
- FM = Fresh Marsh
- HM = High Marsh
- IM = Intercoastal Marsh
- SM = Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 3000

Feet

Image Source: Google© 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-25-10
File: TO-0024_LIS_NY-1-2.ai


Site NY-1
Mattituck, NY
N
Long Island Sound
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
3997
Feet
Image Source: Google© 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 9-3-10
File: TO-0024_LIS_NY-1-4.ai

Site NY-1

Mattituck, NY

Site Address	Oregon Rd. (between Elijahs Rd and Duck Pond Rd.), Mattituck, NY
General Description	Site includes agricultural fields on multiple parcels located on the north side of Long Island in Mattituck.
Ownership/POC	Multiple (16) private properties James McMahon, Southold Dept. of Public Works (631) 765-1283
Zoning	AC Agricultural preservation
Surrounding Land Use	Commercial agricultural properties and residential properties surround the site.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Haven loam, 0 to 2% slopes (HaA). Small portions of Haven loam, 2 to 6% slopes (HaB), Plymouth loamy sand, 3 to 8% slopes (PlB), Plymouth loamy sand, 8 to 15% slopes (PlC), Riverhead sandy loam, 0 to 3% slopes (RdA), Riverhead sandy loam, 3 to 8% slopes (RdB), Riverhead sandy loam, 8 to 15% slopes (RdC), and Scio silt loam, sandy substratum, 0 to 2% slopes (SdA).
Staging Area	Staging areas for equipment do not currently exist; however they could be developed in areas of the site adjacent to Oregon Rd.
Dewatering Capacity	2,085,000 cy
Land Access	Oregon Rd. Small paved road running through farmland. Approximately 10 miles to Rte 495.
Water Access	No direct water access to site. Abutting private residential parcels north of the site can be accessed via LIS, but a high bluff (>60 ft) lies at the edge of these parcels. Material would need to be pumped up and over the bluff, and across the private parcels.
Additional Considerations	Most of the site is currently in agricultural use (corn, field crops, vineyard, nursery stock, sod); 7 of the 16 parcels have Transferred Development Rights (TDR) to the Town of Southold; per Chapter 70 of the Town Code TDR restricts future uses of the site to agriculture only. Dewatering areas could potentially be constructed on the remaining parcels; however water access to site would be challenging (see above). Several of the shore front properties have shore protection structures on the bluff, however, erosion of the bluff is ongoing and would be concern if a pumping system was utilized. In addition parcels on the shore are residential, and owners would need to grant a right-of-way for a pipeline. Cultural resources present. Site "Potentially Viable in the Future" for dewatering.

Site NY-1
Mattituck, NY

Date: July 12, 2010

Direction: North

Description:

Current use of site looking to the north from Oregon Rd. showing agricultural field.

Date: July 12, 2010

Direction: Northeast

Description:

Current use of site looking to the northeast from Oregon Rd showing vineyard.

Site NY-1
Mattituck, NY

Date: July 12, 2010

Direction: West

Description:

Beach profile adjacent to NY-1 site, showing high coastal bluff with bulkheads for shore protection.

Date: July 12, 2010

Direction: West

Description:

Beach profile adjacent to NY-1 site, showing narrow beach and high eroding coastal bluffs.

*Parcel numbers on next page

Site NY-1 Mattituck, NY
Potential Dewatering Site

Parcel	DSBL
1	1000082000200002000
2	1000082000200003002
3	1000082000200003003
4	1000082000200003004
5	1000083000100026000
6	1000083000100027000
7	1000083000100028000
8	1000083000100029000
9	1000083000100032003
10	1000083000100033000
11	1000083000100034000
12	1000094000100017000
13	1000094000100018000
14	1000094000100019000
15	1000094000200006000
16	1000094000200007000
17	1000094000300001008
18	1000094000300001012
19	1000094000300003001
20	1000094000300003003
21	1000094000300004001
22	1000094000400001000
23	1000094000400002000
24	1000095000100001002
25	1000095000100002000
26	1000095000100003001
27	1000095000100003002
28	1000095000100005002
29	1000095000100006000
30	1000095000100007002
31	1000095000100008002
32	1000095000100008003
33	1000095000100009000
34	1000095000100010000
35	1000095000100011002
36	1000095000100011003
37	1000095000100012000
38	1000095000300002000
39	1000095000300003004
40	1000095000300007000
41	1000095000300008001
42	1000095000400001000
43	1000095000400005003
44	1000095000400006001
45	1000095000400006002
46	1000095000400009002
47	1000095000400014002
48	1000095000400014003
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51	1000100000200006002
52	1000100000200006003
53	1000100000200007000
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57	1000100000400006003
58	1000100000400007001
59	1000100000400008001
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62	1000095000100004003
63	1000095000300003005
64	1000100000400005004
65	1000094000200005000
66	1000095000300001000
67	1000094000300001011
68	1000094000300002000
69	1000094000300003002
70	1000094000300004002
71	1000095000100001001
72	1000095000100004002
73	1000095000100004004
74	1000095000100007001
75	1000095000300004001
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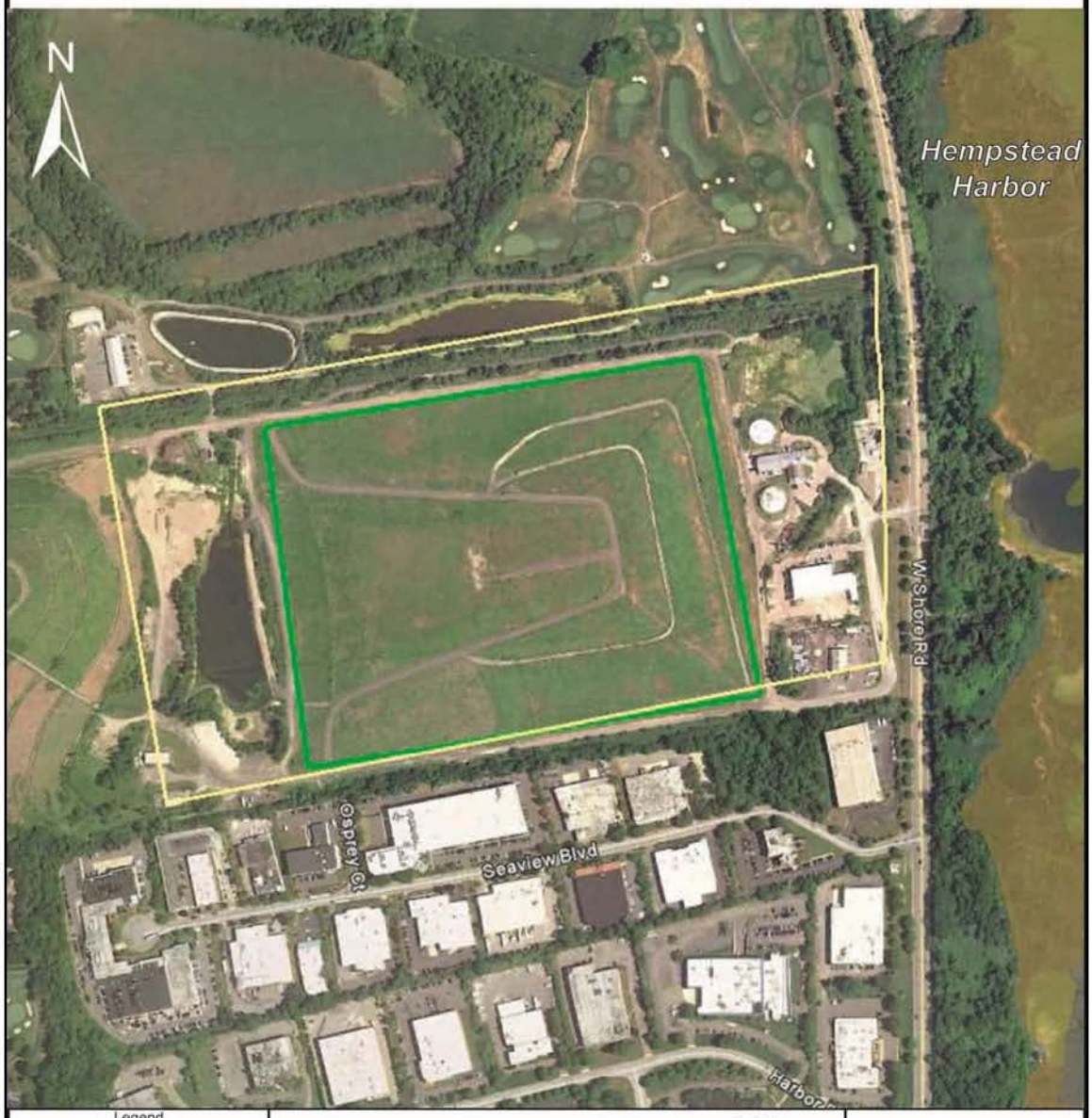
85	1000083000100024000
86	1000083000100025000
87	1000083000100030000
88	1000083000100036001
89	1000083000200019009
90	1000083000200019012
91	1000083000200019013
92	1000083000200020001
93	1000083000400001000
94	1000083000400002000
95	1000083000400004000
96	1000083000400007000
97	1000083000400008000
98	1000083000400010000
99	1000083000400011000
100	1000083000400012000
101	1000083000400015000
102	1000095000200001001
103	1000100000400005002
104	1000083000400009000
105	1000083000400016000
106	1000083000400003000
107	1000083000100021000
108	1000083000100031000
109	1000083000200019007
110	1000083000200019011
111	1000083000400017000
112	1000082000200001000
113	1000082000200003001
114	1000094000300001010
115	1000094000100016003

Site NY-1 Mattituck, NY

Potential Dewatering Site

Site NY-10
North Hempstead, NY



Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 500 1000 1500
Feet

Image Source: Google© 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_NY-10-2.ai

Site NY-10
North Hempstead, NY

Site Address	802 West Shore Rd., Port Washington, NY
General Description	The site is located on the eastern portion of Manhasset Neck and is bordered to the east by Hempstead Harbor. It contains the closed and capped Port Washington landfill.
Ownership/POC	Town of North Hempstead Igor Sikiric, Commissioner Solid Waste Management Authority (516) 883-6241
Zoning	R AAA - Residence AAA
Surrounding Land Use	Industrial park abuts the site to the south; municipal and private golf courses are located to the west and north; residential areas surround the golf courses; Hempstead Harbor is located to the east across West Shore Rd. from the site.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Pits, sand and gravel (Pk).
Staging Area	Minimal room for staging on site.
Dewatering Capacity	Not available – closed and capped landfill.
Land Access	West Shore Rd. to landfill site and Solid Waste Management Authority offices. Access roads surround the landfill and allow equipment access across the top of the landfill.
Water Access	Hempstead Harbor; south of Bar Beach water depths range between 0.5 and 3 ft. Water access is separated from site by West Shore Rd; adjacent harbor shoreline is in a natural woodland condition; bulkheads/seawalls not present.
Additional Considerations	The Port Washington landfill, composed of areas L4 and L5, was used for disposal of residential, commercial and industrial solid waste, raw sewage sludge, construction and demolition debris, and incinerator residue from 1970 through 2002. Landfill area L4 was closed in 1983 and capped in 1997; landfill area L5 was closed and capped in 2002. POC notes landfill is not now, and will not be available for dewatering in the future. Cultural resources present. Site “Not Feasible” for dewatering.

Site NY-10
North Hempstead, NY

Date: July 13, 2010

Direction: Northwest

Description:

Main offices of North Hempstead Solid Waste Management Authority.

Date: July 13, 2010

Direction: West

Description:

Port Washington closed and capped landfill with maintenance facilities in the foreground.

Parcel	SBL
1	6-53-1033
2	6-089-60
3	6-089-61
4	6-089-12
5	6-089-13
6	6-089-14
7	6-089-16
8	6-089-18
9	6-089-23
10	6-089-62
11	6-089-52
12	6-53-996
13	6-053-1038
14	6-053-1047
15	6-053-1048

Site NY-10 North Hempstead, NY
Potential Dewatering Site

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Site NY-29
North Hempstead, NY

Legend

Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 2500
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_NY-29-2.ai


Site NY-29
North Hempstead, NY
N
SE Rd
Rd
Beacon Dr
Hempstead Harbor
W Shore Dr
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
595
1190
1785
Feet
Image Source: Google© 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 9-7-10
File: TO-0024_LIS_NY-29-4.ai

Site NY-29

North Hempstead, NY

Site Address	West Shore Rd., Port Washington, NY
General Description	The site is located on the northeastern portion of Manhasset Neck and is bordered to the east by Hempstead Harbor. The property is heavily wooded, with the exception of the central portion which contains aerodrome facilities for the Hempstead Harbor Aero Modelers Society, Inc.
Ownership/POC	Town of North Hempstead Fred Pollack, Councilman Port Washington District, Town of North Hempstead (516) 869-7711
Zoning	R-AAA - Residence AAA
Surrounding Land Use	Residential properties and a municipal golf course abut the site to the north, west, and south. Marine industrial facilities (Barker Aggregates, Ltd.; Buchanan Marine) are located to the east across West Shore Rd.; these facilities have direct access to Hempstead Harbor.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Pits, sand and gravel (Pk); western portion Udipsamments, steep (UdE); northwestern edge Montauk fine sandy loam, 3 to 8 percent slopes (MfB).
Staging Area	Staging areas for equipment not currently available as the area is heavily wooded. Potential staging could be developed adjacent to West Shore Rd. and existing access road to the aerodrome.
Dewatering Capacity	39,900 cy
Land Access	West Shore Rd. to existing access road leading to aerodrome. Additional land access within the site would need to be developed.
Water Access	Hempstead Harbor; approximate waters depths between 10 and 15 ft. Water access is separated from site by West Shore Rd; adjacent harbor shoreline is a combination of bulkheads and naturally vegetated coastal banks.
Additional Considerations	The central portion of the site where the aerodrome is located has been remediated for methane gas through top soil stripping, installation of vent pipes, placement of clean top soil, and revegetation. This portion of the site is not viable for dewatering due to methane capture system underground. Heavily vegetated woodland areas are present throughout the remaining portions of the site. The site topography rises approximately 100 to 200 ft above the level of Hempstead Harbor. Cultural resources present. Site “Potentially Viable in the Future” for dewatering.

Site NY-29
North Hempstead, NY

Date: July 13, 2010

Direction: North

Description:

Remediation portion of the site showing existing aerodrome facilities.

Date: July 13, 2010

Direction: West

Description:

Remediation portion of the site showing surrounding woodland area.

Site NY-29
North Hempstead, NY

Date: July 13, 2010

Direction: West

Description:

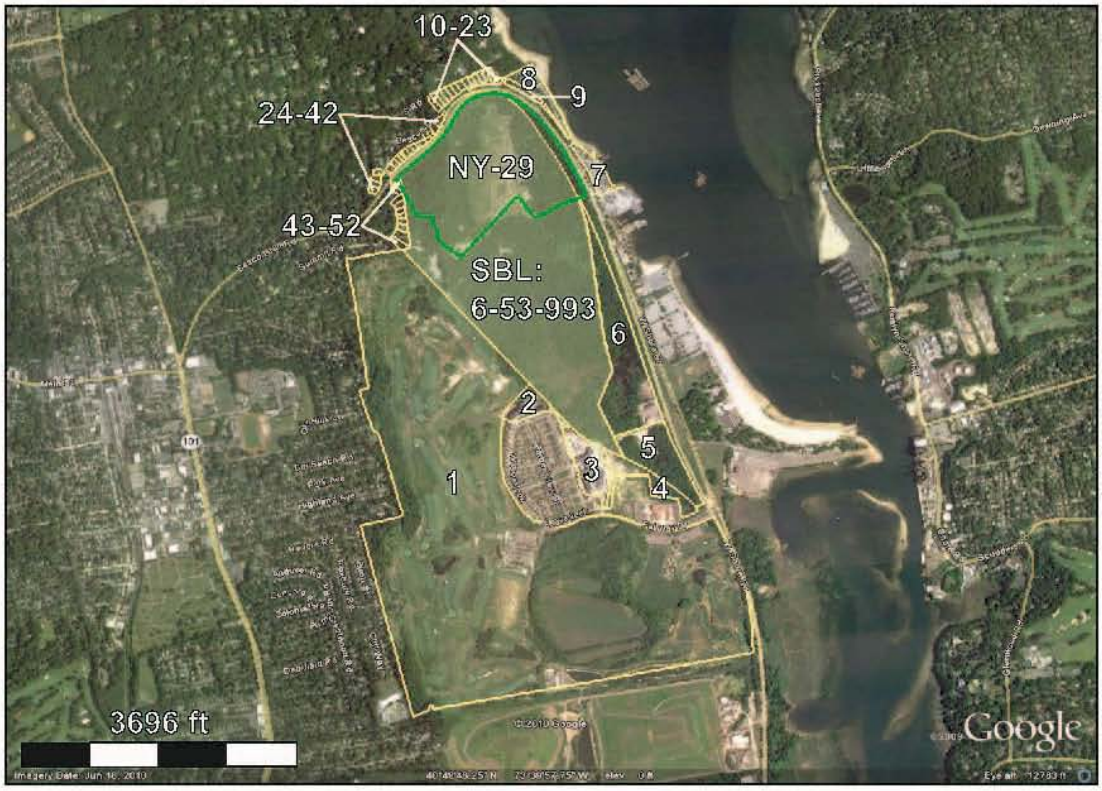
Existing road access off of West Shore Rd. that leads to remediation site and aerodrome.

Date: July 13, 2010

Direction: South

Description:

Hempstead Harbor shoreline area adjacent to the site showing examples of timber bulkhead and naturally vegetated banks.



Parcel	SBL	Parcel	SBL	Parcel	SBL
1	6-53-1077	22	5-K-74	43	6-036-112
2	6-53-1067	23	5-K-71	44	6-036-113
3	6-053-1066	24	5-144-16	45	6-036-114
4	6-053-1071	25	5-144-15	46	6-036-115
5	6-053-1057	26	5-144-13	47	6-036-116
6	6-053-1058	27	5-144-14	48	6-036-117
7	6-053-57C	28	5-144-12	49	6-036-118
8	5-K-3	29	5-144-11	50	6-036-120
9	5-K-290	30	5-144-20	51	6-036-119
10	5-K-277	31	5-144-19	52	6-036-7
11	5-K-280	32	5-144-18		
12	5-K-282	33	5-144-23		
13	5-K-284	34	5-144-24		
14	5-K-285	35	5-144-25		
15	5-K-278	36	5-144-22		
16	5-K-273	37	5-144-26		
17	5-K-89	38	5-144-21		
18	5-K-95	39	5-145-1		
19	5-K-94	40	5-134-53		
20	5-K-93	41	5-134-52		
21	5-K-96	42	5-134-51		

Site NY-29 North Hempstead, NY

Potential Dewatering Site

Site CT-8
Fairfield, CT

Legend

Mapped Wetlands
- Tidal Wetland

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 500 1000 1500
Feet

Image Source: Google©2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 8-17-10
File: TO-0024_LIS_CT-8-2.ai

Site CT-8
Fairfield, CT

Legend
Mapped Wetlands
Tidal Wetland
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
Staging Area
Berm
Dewatering Area

0 1000
Feet

Image Source: Google © 2009
Image Date: October 1, 2006
Wetland Source: Tidal Wetlands 1990's (CT DEP, Office of LIS Programs, 2002)
Listed Species Habitat Source: Natural Diversity Database Areas (CT DEP, 2010)

US Army Corps of Engineers

Date: 9-3-10
File: TO-0024_LIS_CT-8-4.ai

Site CT-8

Fairfield, CT

Site Address	183 One Rod Highway, Fairfield, CT
General Description	Site is town property. Area of interest is used for material recycling, asphalt processing. Larger town parcel also includes DPW offices, wastewater treatment plant, and construction materials storage.
Ownership/POC	Town of Fairfield, CT Steve Bartlett, Assistant Director, Fairfield DPW (203) 256-3010
Zoning	Town of Fairfield Flood Plain District
Surrounding Land Use	Wetland/open space; closed & capped landfill; residential.
Wetlands	Yes. Mapped wetlands adjacent to, and on parcel on south, east, and north sides.
State and Federally Listed Species Habitat	No.
Mapped Soils	Dumps (302); southwestern portion Westbrook mucky peat (98); small northeastern portion Udorthents - Urban land complex (306).
Staging Area	Room for staging areas at the end of access roads on the north and east sides.
Dewatering Capacity	47,800 cy
Land Access	One Rod Highway provides access to the site. This is a secondary road with no limitations to heavy equipment or truck access. I-95 is approximately 2 miles from the site. MetroNorth railroad is approximately 1 mile from site.
Water Access	Pine Creek runs along site and connects to LIS. Approximate water depths 2-10 feet. No facilities available for transferring material to shore. No docks, no bulkhead.
Additional Considerations	Site currently used for Town of Fairfield recycling and for a private asphalt recycling facility, and has been used in such endeavors for the past 28+ years. Site operator doesn't anticipate an ability to dewater dredged material on the site in the foreseeable future. Residential parcels on Fairfield Beach Road – generally these homeowners have voiced concern over various uses of the site. Plans are in place to establish a walking path along the edge of the parcel, on berms adjacent to the marsh. Wetlands on and adjacent to site. Setbacks required. Berm failure could potentially damage wetlands. Soils may be unstable, as site was previously used as a municipal waste site, and later for dumping brush. Sink holes and potholes appear frequently. Site is in FEMA AE-Zone. Site "Potentially Viable in the Future" for dewatering.

Site CT 8
Fairfield, CT

Date: June 22, 2010

Direction: West

Description:

Current use of site for asphalt recycling.

Date: June 22, 2010

Direction: East

Description:

Current use of site for yard waste recycling.

Site CT 8
Fairfield, CT

Date: June 22, 2010

Direction: Southwest

Description:

View from top of berm alongside the asphalt recycling area, showing wetland adjacent to site.

Date: June 22, 2010

Direction: South

Description:

View from top of berm showing adjacent salt marsh and water access via Pine Creek.

*Parcel numbers on next page

Site CT-8 Fairfield, CT

Potential Dewatering Site

Parcel	MBL	Parcel	MBL	Parcel	MBL
1	2342880000	37	1831560000	73	1842240000
2	1825280000	38	1831570000	74	1842230000
3	2321150000	39	183194A0000	75	1842220000
4	2320290000	40	1831940000	76	1842210000
5	2320010000	41	1830230000	77	1842200000
6	2320140000	42	1831520000	78	1842190000
7	2320440000	43	1831510000	79	1842180000
8	182597A0000	44	1831500000	80	1842170000
9	1825970000	45	1831490000	81	1842160000
10	1824850000	46	1831480000	82	1842150000
11	1825270000	47	1831470000	83	1842140000
12	1824320000	48	1831460000	84	1842130000
13	1832790000	49	1831450000	85	1842120000
14	1832780000	50	1831440000	86	1842110000
15	1832770000	51	1825300000	87	1842100000
16	1832760000	52	2342880000	88	1842090000
17	1832750000	53	1842450000	89	1842080000
18	1832740000	54	1842430000	90	1842070000
19	1832730000	55	1842420000	91	184206A0000
20	1832680000	56	1842410000	92	1842060000
21	1832670000	57	1842400000	93	1842050000
22	1832660000	58	184239A0000	94	1842040000
23	1832650000	59	1842390000	95	1842020000
24	1832640000	60	1842380000	96	1842010000
25	1832630000	61	1842370000	97	1842000000
26	1832620000	62	1842360000	98	1841990000
27	1832610000	63	1842350000	99	1841980000
28	1832600000	64	1842340000	100	1841970000
29	1832590000	65	1842330000	101	1841960000
30	1832580000	66	1842320000	102	1841930000
31	1832570000	67	1842310000	103	1841900000
32	1832560000	68	1842300000	104	1841870000
33	1832550000	69	1842290000	105	1841850000
34	1831970000	70	1842280000	106	1841840000
35	1832210000	71	1842260000	107	1841830000
36	1831550000	72	1842250000	108	1841820000
				109	1841810000

Site CT-8 Fairfield, CT

Potential Dewatering Site

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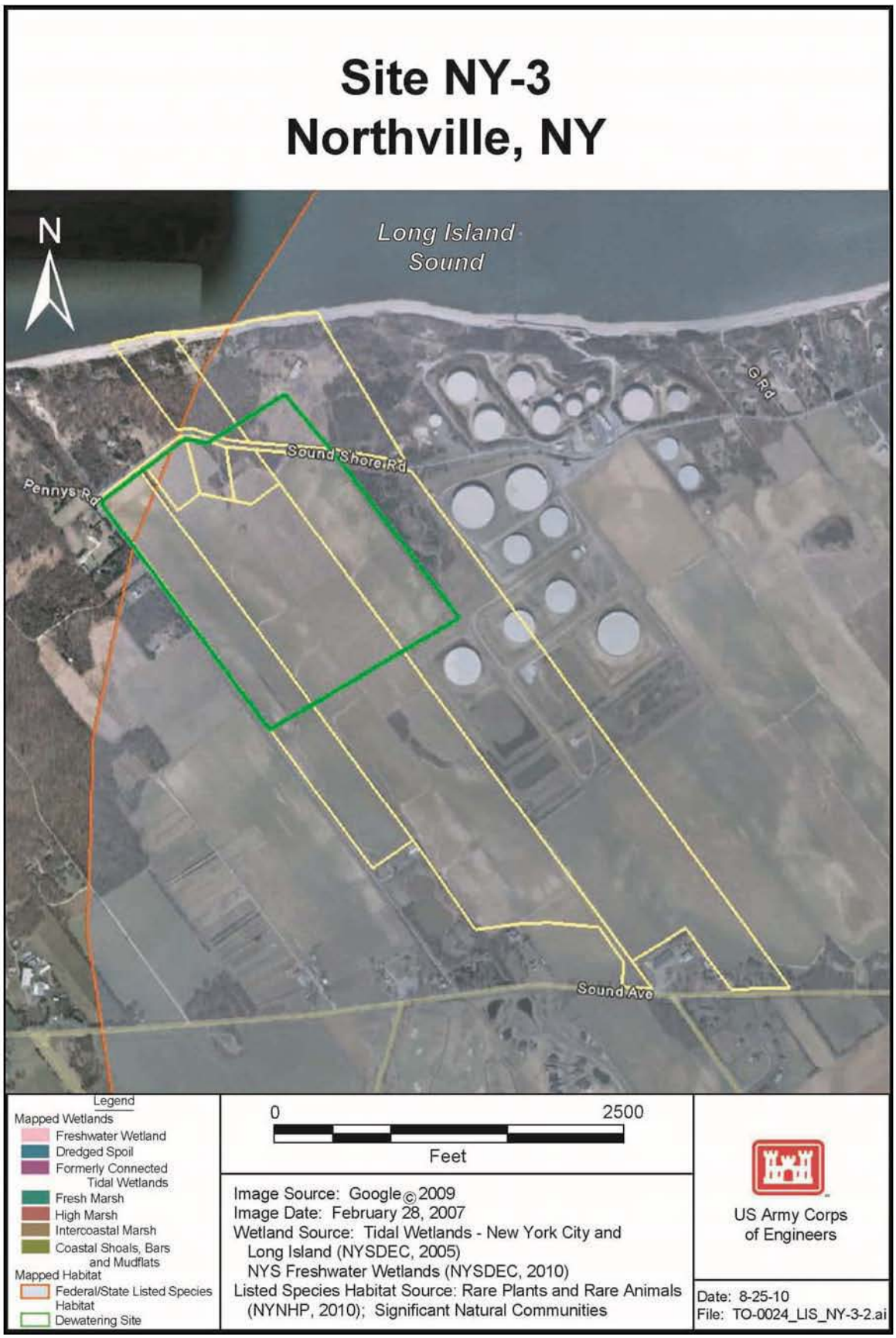
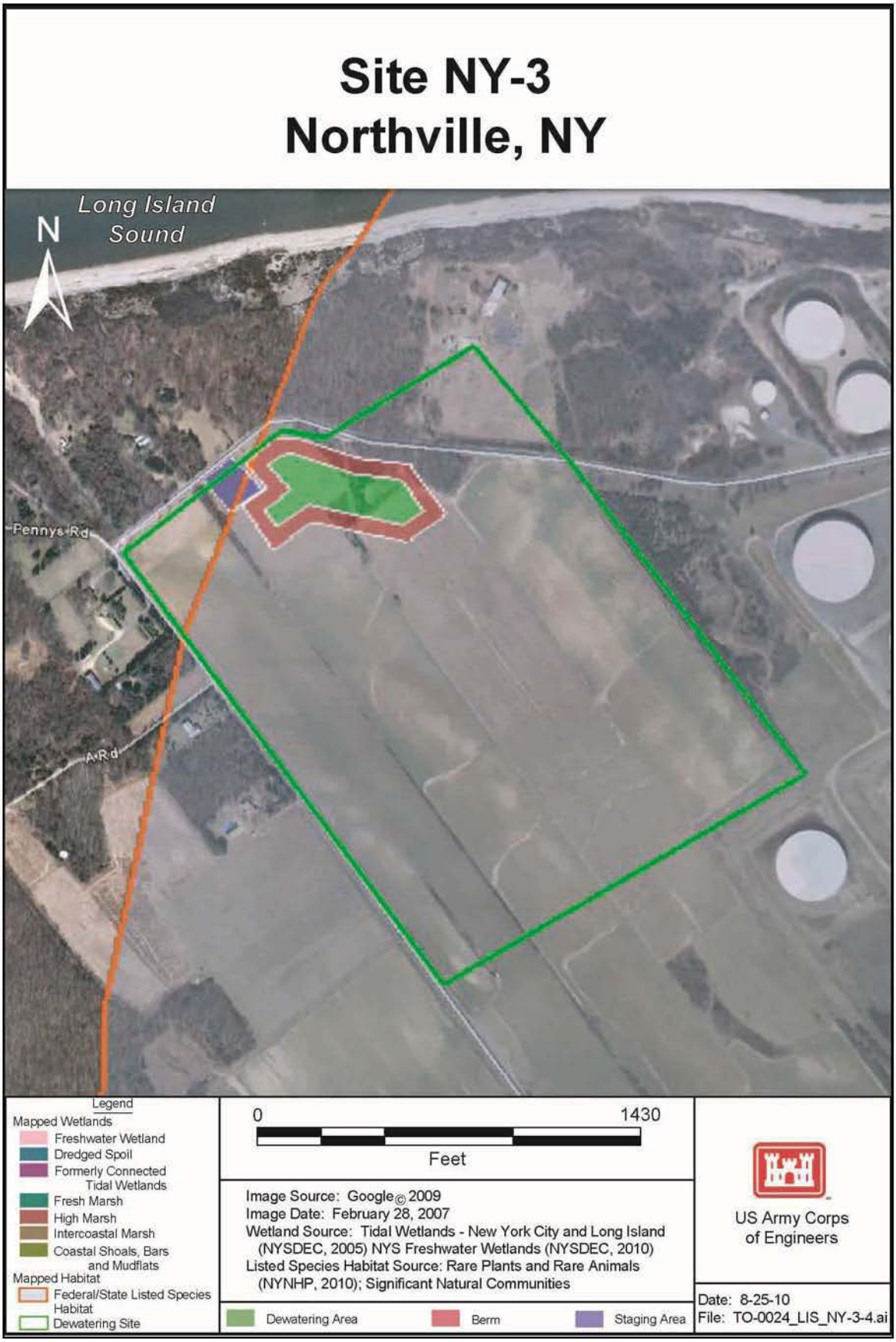

Site NY-3
Northville, NY
N
Long Island Sound
Sound Shore Rd
Pennys Rd
G Rd
Sound Ave
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
2500
Feet
Image Source: Google © 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
US Army Corps of Engineers
Date: 8-25-10
File: TO-0024_LIS_NY-3-2.ai


Site NY-3
Northville, NY
Long Island Sound
N
Pennys Rd
A Rd
Legend
Mapped Wetlands
Freshwater Wetland
Dredged Spoil
Formerly Connected Tidal Wetlands
Fresh Marsh
High Marsh
Intercoastal Marsh
Coastal Shoals, Bars and Mudflats
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
1430
Feet
Image Source: Google© 2009
Image Date: February 28, 2007
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005) NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 8-25-10
File: TO-0024_LIS_NY-3-4.ai

Site NY-3

Northville, NY

Site Address	Penny's Lane and Sound Shore Rd. Northville, NY
General Description	Site includes agricultural fields on multiple privately owned parcels located on the north side of Long Island in Northville. Conoco Philips owns one large parcel, and leases it to a farmer. Development rights on most of the parcels within the site have been sold and would not allow dewatering.
Ownership/POC	Conoco Philips and Privately owned parcels. Laura Shoenberger (832) 486-3347 POC at Conoco Philips; James McMahon, Southold Dept. of Public Works (631) 765-1283.
Zoning	RA 40, RA 80 - Residential
Surrounding Land Use	Agricultural; residential; industrial (tank farm).
Wetlands	No.
State and Federally Listed Species Habitat	Yes. Mapped habitat covers most of site.
Mapped Soils	Haven loam, 0 to 2% slopes (HaA) and Haven loam, 2 to 6 % slopes (HaB); peripheral portions consist of Carver and Plymouth sands, 3 to 15% slopes (CpC), Carver and Plymouth sands, 15 to 35% slopes (CpE), Plymouth gravelly loamy sand, 3 to 8% slopes, eroded (PmB3), Plymouth gravelly loamy sand, 8 to 15% slopes, eroded (PmC3), Riverhead sandy loam, 0 to 3% slopes (RdA), Riverhead sandy loam, 3 to 8% slopes (RdB), and Riverhead sandy loam, 8 to 15% slopes (RdC).
Staging Area	Room for staging area at Sound Shore Rd on the north side of parcel, though currently in agricultural use.
Dewatering Capacity	35,200 cy
Land Access	Sound Shore Rd. Small paved road running through agricultural area. Approximately 10 miles to Rte 495.
Water Access	No direct access to site. Abutting private residential parcels north of the site can be accessed via LIS, but a high bluff (>100 ft) lies at the edge of these parcels. Material would need to be pumped up and over the bluff, across the private parcels, and across the road to get to the site.
Additional Considerations	A small portion on the north side of this site could potentially become available for dewatering in future; however, development rights have been sold on most of the parcels within the site. If these north end parcels became available, water access would be challenging, as noted above. No shore protection structures occur on the bluff, and erosion would be an issue if a pumping system was put in place. Parcels on the shore are residential, and owners would need to grant a right-of-way for a pipeline. Cultural resources present. Site "Potentially Viable in the Future" for dewatering.

Site NY-3
Northville, NY

Date: July 12, 2010

Direction: Southeast

Description:

Current use of site looking southeast. Agricultural field.

Date: July 12, 2010

Direction: East

Description:

Current use of site looking east. Food crops including corn, wheat, potatoes.

Site NY-3
Northville, NY

Date: July 12, 2010

Direction: North

Description:

View from top of berm at the adjacent property on LIS, showing the high bluff with no shore protection/stabilization.

Date: July 12, 2010

Direction: South

Description:

Area alongside Sound Shore Rd., currently in agriculture but could potentially become staging if parcels became available for dewatering.

Parcel	DSBL	Parcel	DSBL
1	0600006000200004000	19	0600019000100008001
2	0600006000200005000	20	0600019000100009000
3	0600006000300001001	21	0600019000100010000
4	0600006000300001003	22	0600019000100016000
5	0600019000100012000	23	0600019000100017000
6	0600020000100003000	24	0600020000100002005
7	0600020000100002003	25	0600020000100002006
8	0600006000300001002	26	0600020000100004001
9	0600006000100005000	27	0600020000100005001
10	0600006000200001000	28	0600020000200004005
11	0600006000200002000	29	0600020000200004006
12	0600006000200003001	30	0600020000200005000
13	0600006000200003002	31	0600006000200008000
14	0600006000200003004	32	0600006000200003003
15	0600006000200006000	33	0600019000100008002
16	0600006000200009001	34	0600020000100002004
17	0600019000100005000	35	0600020000200002000
18	0600019000100006000	36	0600019000100007000

Site NY-3 Northville, NY
Potential Dewatering Site

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Site NY-16-B
Queens, NY

Legend
Mapped Wetlands
- Freshwater Wetland
- Dredged Spoil
- Formerly Connected Tidal Wetlands
- Fresh Marsh
- High Marsh
- Intercoastal Marsh
- Coastal Shoals, Bars and Mudflats

Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 250 500 750
Feet

Image Source: Google © 2009
Image Date: June 18, 2010
Wetland Source: Tidal Wetlands - New York City and Long Island (NYSDEC, 2005)
NYS Freshwater Wetlands (NYSDEC, 2010)
Listed Species Habitat Source: Rare Plants and Rare Animals (NYNHP, 2010); Significant Natural Communities

US Army Corps of Engineers

Date: 8-24-10
File: TO-0024_LIS_NY-16-B-2.ai

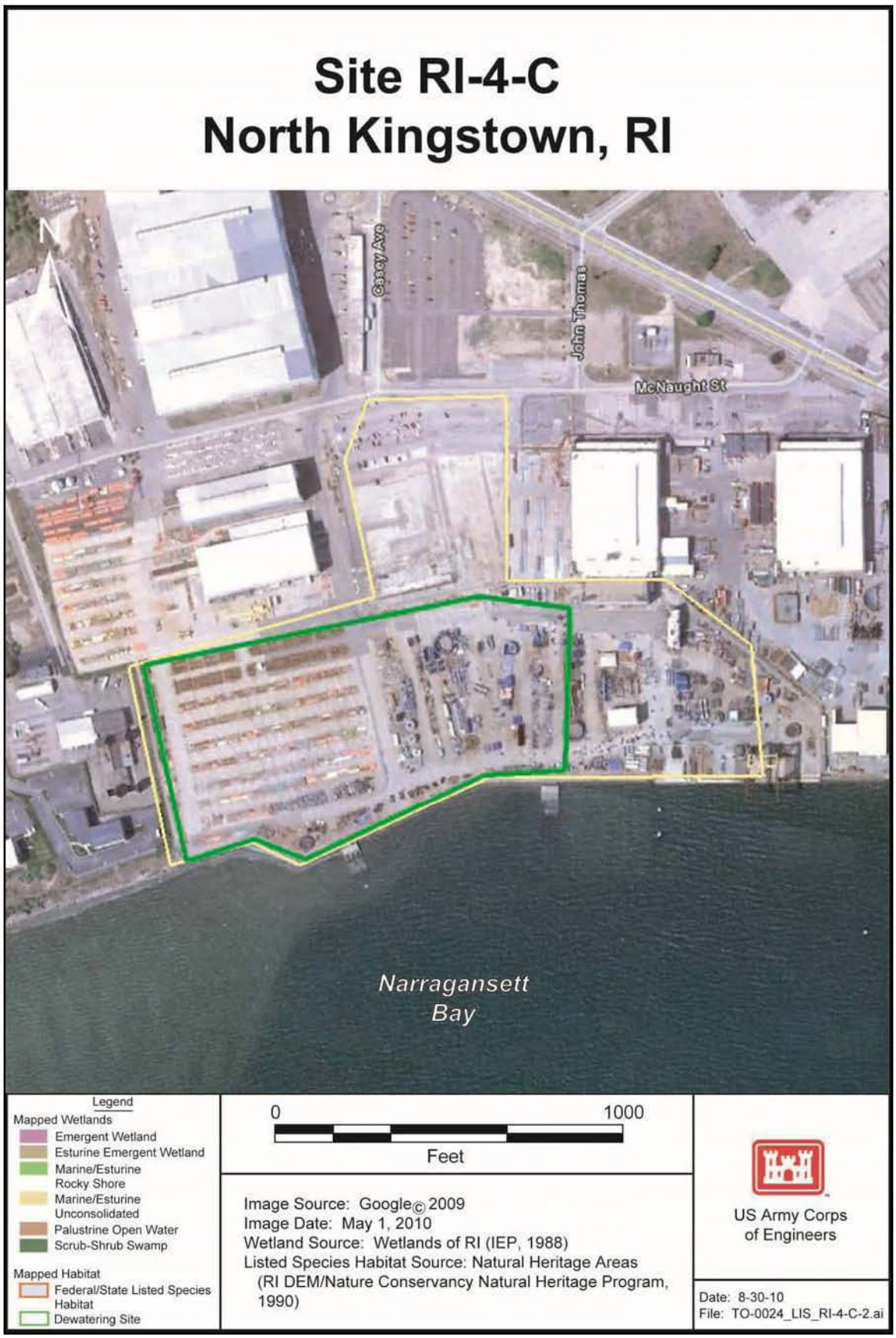
Site NY-16B

Queens, NY

Site Address	40-22 College Pt. Blvd., Queens, NY
General Description	This site has been developed into a shopping center, parking garage, and residential towers. There is no capacity for dewatering dredged material.
Ownership/POC	Flushing Town Center III, LLC. Dave Brickman (212) 993-5706
Zoning	C4- General commercial districts, shopping centers and offices in more densely built areas.
Surrounding Land Use	Industrial; retail; Flushing River.
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Pavement & buildings, till substratum, 0 to 5 percent slopes (2)
Staging Area	n/a
Dewatering Capacity	None. Site has been developed.
Land Access	College Pt. Blvd.
Water Access	Non-navigable river (Flushing River).
Additional Considerations	This site was developed between 2006 and 2009. The developer indicates that the entire parcel now includes a mixed-use development including shopping areas, parking, and residential towers. The 2009 USACE Upland Site Investigation identified the site using the available GoogleEarth images, which at the time did not show the development on this parcel. The currently available image does show the buildings on the parcel. Site "Not Feasible" for dewatering.

Parcel	BBL	Parcel	BBL
1	Queens 5066 250	18	Queens 5060 54
2	Queens 5066 8900	19	Queens 5060 55
3	Queens 4963 7	20	Queens 5060 155
4	Queens 4962 19	21	Queens 5060 56
5	Queens 4962 4	22	Queens 5060 57
6	Queens 4973 1	23	Queens 5060 58
7	Queens 5037 8	24	Queens 5060 59
8	Queens 5060 38	25	Queens 5060 60
9	Queens 5060 37	26	Queens 5060 61
10	Queens 5060 42	27	Queens 5060 62
11	Queens 5060 46	28	Queens 5060 64
12	Queens 5060 47	29	Queens 5060 67
13	Queens 5060 149	30	Queens 5060 68
14	Queens 5060 150	31	Queens 5060 69
15	Queens 5060 151	32	Queens 5060 70
16	Queens 5060 152	33	Queens 5060 71
17	Queens 5060 53	34	Queens 5066 150

Site NY-16-B Queens, NY
Potential Dewatering Site


Site RI-4-C
North Kingstown, RI
N
Casey Ave
John Thomas
McNaught St
Narragansett Bay
Legend
Mapped Wetlands
Emergent Wetland
Esturine Emergent Wetland
Marine/Esturine Rocky Shore
Marine/Esturine Unconsolidated
Palustrine Open Water
Scrub-Shrub Swamp
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
1000
Feet
Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)
US Army Corps of Engineers
Date: 8-30-10
File: TO-0024_LIS_RI-4-C-2.ai


Site RI-4-C
North Kingstown, RI
John Thom
Williams Way
McNaught St
Burlingham Ave
Narragansett Bay
Legend
Mapped Wetlands
Emergent Wetland
Esturine Emergent Wetland
Marine/Esturine Rocky Shore
Marine/Esturine Unconsolidated
Palustrine Open Water
Scrub-Shrub Swamp
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
1000
Feet
Image Source: Google ©2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas
(RI DEM/Nature Conservancy Natural Heritage Program, 1990)
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 9-7-10
File: TO-0024_LIS_RI-4-C-4.ai

Site RI - 4C

North Kingstown, RI

Site Address	Casey Ave., North Kingstown, RI
General Description	Industrial site in the Quonset Business Park, an industrial/commerce park on the former Naval base at Quonset Point. Site is currently leased to Electric Boat for submarine manufacture.
Ownership/POC	Quonset Development Corp. Stephen King, Managing Director (401) 295-0044 x243
Zoning	General Industrial
Surrounding Land Use	Industrial
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Site is concrete throughout. Soils are mapped as Urban Land (UL) - moderate constraints to development.
Staging Area	Not on site at present. Could be created.
Dewatering Capacity	87,800 cy. Potential capacity, site is not currently available.
Land Access	Rte 403/Roger Williams Ave. to Casey Ave. No limitations on access for trucks or equipment. Rail line runs through Quonset Point and track is <1 mile from parcel.
Water Access	Site is on Narragansett Bay. Water depths 3-11 ft near bulkhead; deeper in the channel, which is 30 ft or deeper. Bulkhead along shoreline with possible access for barges.
Additional Considerations	Site has been leased by Electric Boat since 1974 and is not available at present. POC for the site does not see near-term possibility of dewatering at the site. Electric Boat recently announced plans to expand at Quonset Point, adding 450 specialized jobs and $55 million on new infrastructure at Quonset Point as part of the expansion of the Virginia Class Nuclear Sub program. Access to this parcel was not granted due to security concerns regarding Electric Boat's work on Navy Submarines. Therefore no photos are available for this site. Site is in FEMA VE-Zone and AE-Zone. Site "Potentially Viable in the Future" for dewatering.

Parcel	MBL
1	185-031
2	185-032
3	185-035
4	185-011
5	185-002
6	185-001
7	185-008

Site RI-4-C North Kingstown, RI

Potential Dewatering Site

Site RI-5
North Kingstown, RI

Legend

Mapped Wetlands
- Emergent Wetland
- Esturine Emergent Wetland
- Marine/Esturine Rocky Shore
- Marine/Esturine Unconsolidated
- Palustrine Open Water
- Scrub-Shrub Swamp

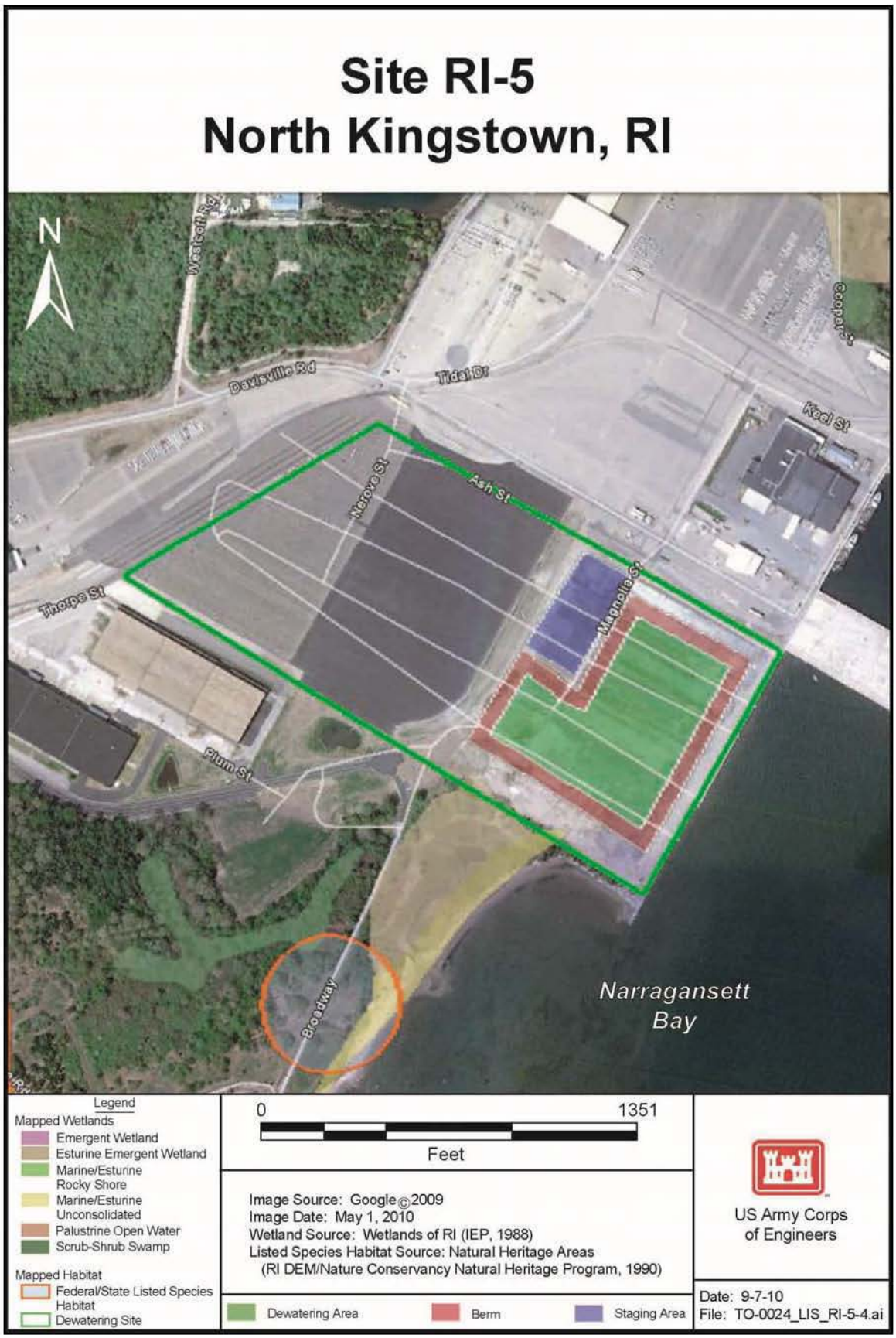
Mapped Habitat
- Federal/State Listed Species Habitat
- Dewatering Site

0 2500
Feet

Image Source: Google© 2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas (RI DEM/Nature Conservancy Natural Heritage Program, 1990)

US Army Corps of Engineers

Date: 8-30-10
File: TO-0024_LIS_RI-5-2.ai


Site RI-5
North Kingstown, RI
N
Davisville Rd
Tidal Dr
Keel St
Neron St
Ash St
Magnolia St
Thorpe St
Plum St
Broadway
Narragansett Bay
Legend
Mapped Wetlands
Emergent Wetland
Esturine Emergent Wetland
Marine/Esturine Rocky Shore
Marine/Esturine Unconsolidated
Palustrine Open Water
Scrub-Shrub Swamp
Mapped Habitat
Federal/State Listed Species Habitat
Dewatering Site
0
1351
Feet
Image Source: Google ©2009
Image Date: May 1, 2010
Wetland Source: Wetlands of RI (IEP, 1988)
Listed Species Habitat Source: Natural Heritage Areas
(RI DEM/Nature Conservancy Natural Heritage Program, 1990)
Dewatering Area
Berm
Staging Area
US Army Corps of Engineers
Date: 9-7-10
File: TO-0024_LIS_RI-5-4.ai

Site RI-5

North Kingstown, RI

Site Address	2555 Davisville Rd, North Kingstown, RI
General Description	Industrial site in the Quonset Business Park, an industrial/commerce park on the former Navy base at Quonset Point. Northern part of parcel is leased to North Atlantic Distribution, an auto import firm. Autos are brought by barge from overseas, then processed and distributed to dealers from the site. South end of the parcel has a lease option with an offshore wind manufacturing facility. One small part of the parcel is also used by the Port Office.
Ownership/POC	Quonset Development Corp. Stephen King, Managing Director (401) 295-0044 x243
Zoning	Waterfront Industrial
Surrounding Land Use	Industrial
Wetlands	No.
State and Federally Listed Species Habitat	No.
Mapped Soils	Most of site classified as Urban Land (UL) - moderate constraints to development; small portion Quonset gravelly sandy loam (QoC) - moderate constraints to development. Northern section was recently paved.
Staging Area	None on site currently; could be constructed.
Dewatering Capacity	102,200 cy
Land Access	Rte. 403 to Davisville Rd to Ash St. No constraints to trucks or heavy equipment. Railroad runs through Quonset Point Park on the north side of the parcel.
Water Access	Narragansett Bay. Dock and pier just north of parcel. New bulkhead on edge of parcel (replaced in 2009 following storm damage). Approximate water depths 3-11 feet. NOAA chart indicates 7-11ft but there may be a shoal area immediately adjacent to bulkhead. Channel from Quonset Point through Narragansett Bay is at least 30 ft deep.
Additional Considerations	Site is currently leased to private firms. Wetland/stormwater catch basin on west side of parcel. Setbacks would be required. Surrounding area is industrial but auto import facility would be adversely affected by dust or mud, so dewatering may not be a preferred use of the site. Port Office staff note that plans are in place for a new NOAA vessel to use the dock area immediately adjacent to the site, and this could potentially conflict with site access via barge. Site is in FEMA VE-Zone and AE-Zone. Site "Potentially Viable in the Future" for dewatering.

Site RI-5
North Kingstown, RI

Date: July 15, 2010

Direction: North

Description:

Current use of site: open sandy/gravel area on south end of parcel (area with lease option); auto import terminal on north side.

Date: July 15, 2010

Direction: West

Description:

Newly constructed bulkhead at shoreline. Viewed from pier adjacent to the site.

Site RI-5
North Kingstown, RI

Date: July 15, 2010

Direction: Southeast

Description:

Auto import facility on northern part of parcel.

Date: July 15, 2010

Direction: East

Description:

Stormwater catch basin at west side of site, seen from just outside parcel on west side.

Parcel	MBL
1	193-004
2	192-005
3	192-002
4	194-020
5	194-021
6	191-072
7	191-001
8	192-006
9	191-067
10	194-018

Site RI-5 North Kingstown, RI

Potential Dewatering Site

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APPENDIX A. DETAILED DESCRIPTION OF SITE SOIL PROPERTIES

APPENDIX B. CULTURAL RESOURCES

APPENDIX C. FIELD DATA SHEETS AND SITE OPERATOR INTERVIEWS

APPENDIX D. SITE CAPACITY ESTIMATE MEMO

APPENDIX E. APPROACH FOR ESTIMATING BEACH CAPACITY