ATTACHMENT F

JULY 2010 WETLANDS DELINEATION REPORT

REVISED
WETLAND DELINEATION REPORT

Champlain Hudson Power Express Project

Albany, Saratoga, Schenectady, New York, Queeens, Washington, and Westchester Counties, New York

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TABLE OF CONTENTS

TABLES

FIGURES

ATTACHMENTS

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this wetland delineation report on behalf of Champlain Hudson Power Express, Inc. (CHPEI) for the Champlain Hudson Power Express Project (Project). The Project is designed to connect renewable sources of power generation to load centers in and around the New York City. The Project will include underwater and underground high-voltage direct current (HVDC) transmission cables connecting an HVDC converter station in Canada with a HVDC converter station in Yonkers, New York. To the extent possible, CHPEI proposes to install the transmission cables along existing waterways to minimize underground transportation routes. CHPEI believes that this innovative approach will minimize the visual and landscape impacts associated with traditional overhead transmission lines, while simultaneously providing the additional capacity required to meet the increasing clean energy demands of the greater New York City metropolitan area.

TRC and HDR|DTA Engineering Inc. (HDR|DTA) were retained by CHPEI to identify and delineate jurisdictional wetlands and waterways along the underground transmission cable route that follows Canadian Pacific (CP) and CSX Corporation (CSX) railroad rights-of-way (ROWs). Delineations were conducted with the objective of identifying and minimizing impacts to federal and state jurisdictional wetlands to the extent feasible. This report describes the wetland delineation methodology and the existing wetland and waterbody resources that were identified in the study area during field surveys for underground portions of the Project.

2.0 PROJECT OVERVIEW

CHPEI proposes to install the transmission cables along existing waterways to the extent possible. From Canada, the proposed transmission cable route enters Lake Champlain and travels south to the northern entrance to the Champlain Canal, near Whitehall, New York. From there the Project has incorporated an underground route along existing railroad ROWs to bypass the Champlain Canal and dredging activities associated with the Upper Hudson River Polychlorinated Biphenyls (PCBs) Dredging Project. The cables will enter the Hudson River in the Town of Coeymans, downstream from the City of Albany. South of Coeymans, the proposed alignment follows the Hudson River to the New York City metropolitan area.

The cables will exit Lake Champlain at the entrance to the Champlain Canal in Whitehall (Washington County). From there, the cables will be buried within the CP railroad ROW through Washington and Saratoga Counties to the Town of Rotterdam, in Schenectady County. At this point, the transmission cable route will turn and follow the CSX railroad ROW until the cables enter the Hudson River in the Town of Coeymans. The total distance of this underground route is approximately 89.4 miles.

In addition to the underground route, the Project also includes a proposed converter station, in Yonkers, Westchester County, New York, and a connection with modifications to either the existing Sherman Creek substation in New York County or the preferred Poletti Substation in Queens County. Connections to the Yonkers Converter Station and the point of interconnection to the substation will be made via horizontal directional drill (HDD) so ground disturbance is not anticipated.

One bipole (two cables) will be laid between Quebec and the Yonkers Converter Station, where the bipole will be terminated. For the underground portions of the Project route within existing railroad ROWs, the typical and preferred layout is to have the bipole installed on either side of the railroad tracks. A minimum separation distance is required from the rails to the cables by each railroad; CP requires a minimum separation of 10 feet from the centerline of the outermost track to the cable trench and CSX requires a minimum separation of 25 feet from the centerline of the outermost track. With this layout, the limits of construction activity extend 15 feet beyond the required minimum setback of the railroads. Some areas may require different configurations for specific engineering challenges, such as steep slopes, environmentally sensitive areas and existing structures. For the underground portions of the Project route, the underground cables will be buried via excavated trenches or HDD.

3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, TRC and HDR|DTA assessed the Project survey area in the field for the presence of federal and state jurisdictional wetlands. Wetland scientists from TRC and HDR|DTA conducted wetland delineations from October to December 2009 and April to June 2010. The delineations were performed in accordance with the United States Army Corps of Engineers (USACE) wetland delineation criteria and methodology, and the *New York State Freshwater Wetlands Delineation Manual* (Browne et. al., 1995).

TRC and HDR|DTA conducted wetland delineations along the majority of the underground route on the existing CP railroad ROW from October to December 2009. The area surveyed included approximately 9.5 miles from Whitehall to Fort Ann in Washington County, and approximately 46.2 miles from Fort Edward in Washington County to Rotterdam in Schenectady County. The survey area includes the municipalities of Whitehall, Fort Ann, Kingsbury, and Fort Edward in Washington County; Moreau, Northumberland, Wilton, Saratoga Springs, Milton, and Ballston in Saratoga County; and Glenville, Schenectady, and Rotterdam in Schenectady County. TRC also surveyed the Yonkers converter station site on September 2, 2009, and no wetlands were observed at the site.

The remaining sections of the underground transmission cable route, which includes an additional 10.5 miles along the CP railroad in Washington County, approximately 23.7 miles along the CSX railroad ROW from the Town of Rotterdam in Schenectady County to the Hudson River, and the Sherman Creek Substation area in New York County, were surveyed by TRC from April to June 2010. No wetlands were observed at the alternative Sherman Creek site. Field surveys have not been conducted to date for the preferred Poletti Substation site in Queens County; however, preliminary analysis suggests that no wetlands or watercourses are present at the site.

The study area for the surveyed portions of the Project included the land within the existing CP and CSX railroad ROWs. To determine the appropriate parcel boundary, TRC reviewed parcel data from the assessors' offices (where available) and valuation maps provided by CP and CSX railroads, consulted with the railroad personnel, and used visual cues such as existing fences, field edges, treelines, or other indications of vegetation management by the railroad. At the Yonkers converter station and Sherman Creek substation, TRC surveyed the site within the property boundary and along the cable landfall.

For the surveyed portions of the underground route, TRC and HDR|DTA wetland delineation crews assessed the Project survey area using the Federal Routine Determination Method presented in the USACE Wetlands Delineation Manual (USACE, 1987), including clarifications and interpretations provided in the March 6, 1992 guidance memorandum (Williams, 1992), and the USACE and Environmental Protection Agency guidance on jurisdictional forms (USACE, 2007). On March 1, 2010, the USACE officially adopted the Interim Regional Supplement for the Northcentral and Northeast Region (USACE, 2009); therefore, surveys conducted from April-June 2010 follow the methodology described in the supplement. TRC and HDR|DTA also reviewed the *New York State Freshwater Wetlands Delineation Manual* (Browne et. al., 1995).

The 1987 USACE manual, Interim Regional Supplement, and guidance memorandums emphasize a three-parameter approach to wetland boundary determination in the field. This approach involves the identification of: (i) evidence of wetland hydrology; (ii) presence of hydric soils; and (iii) predominance of hydrophytic vegetation as defined by the National Plant List Panel (Reed, 1988). Positive indicators of all three parameters are normally present in wetlands and serve to distinguish between both upland and transitional plant communities.

The New York State methodology similarly recognizes the three parameters of vegetation, soils, and hydrology; however, under the New York State method the hydric vegetation criterion is mandatory, while the other two parameters are not. Also, most freshwater wetlands under state jurisdiction must be at least 12.4 acres in size, unless they are deemed to have unusual local importance. The New York State Department of Environmental Conservation (NYSDEC) publishes maps of wetland areas under state jurisdiction; however, NYSDEC uses field delineation to determine the precise boundaries of these wetland areas.

Prior to actual field delineations for wetland resources, TRC reviewed USGS 7.5-minute topographic maps, aerial photographs, National Wetland Inventory (NWI) mapping, United States Department of Agriculture Natural Resources Conservation Service (NRCS) soil mapping, and NYSDEC freshwater wetlands mapping to identify potential wetland features present within the Project area. After a wetland area was initially identified in the field, a transect and plot location were established, generally perpendicular to the wetland/upland boundary, in order to document conditions within each plant community and firmly establish the wetland boundary using wetland indicators. USACE Routine Wetland Determination data forms were completed for representative wetland and upland plots along the transect.

Once the wetland boundary was established, it was marked with sequentially numbered (alpha-numeric) pink flagging labeled with "Wetland Delineation." The location of each flag was pinpointed using a handheld Trimble GeoXT or GeoXH Global Positioning Satellite (GPS) unit.

These data were downloaded into a GIS system, plotted on the project base map (a USGS geo-referenced map), and used to map wetland boundaries as shown in Figure A-1 in Attachment A. Identified wetlands were classified according to Cowardin *et al*. (1979). The results of the delineations are summarized in Section 4.0.

Waterbodies within the proposed Project area were identified by the presence of an ordinary high water mark (OHWM) or stream channel. Delineation and flagging was completed along the approximate centerline of intermittent stream channels, along the top of bank for perennial rivers or streams, and at the OHWM for ponds and lakes. Sequentially numbered (alpha-numeric) blue flagging was utilized to delineate these resources and was geographically located using GPS. For rivers and streams outside of a wetland resource area, the entire channel within the study area was delineated. For stream crossings within a wetland, flags were placed only where the stream crosses the railroad embankment.

This report documents the wetlands and waterbodies potentially under federal jurisdiction that were identified in the survey area along the current proposed underground transmission cable route; not all of these waters will necessarily be impacted by the Project. Additionally, this report documents the state jurisdictional wetlands identified in the Project area. Many wetlands fall under both federal and state jurisdiction; however, some smaller wetlands outside of NYSDEC-mapped areas may be under federal jurisdiction only. Tabular summaries of wetlands that were identified are provided in Table 4-1. Wetland delineation maps are included as Figure A-1 in Attachment A. Photographic documentation is included in Attachment C.

4.0 WETLAND DELINEATION RESULTS

A total of 253 wetland areas were identified in the survey area along the Project route. Table 4-1 in Attachment B provides a summary of the wetlands identified along the Project corridor, including their classification in accordance with Cowardin *et al.* (1979). Thirty-two wetlands mapped by the NYSDEC are located along the Project route, which include portions of the field delineated wetlands. Table 4-1 also identifies those wetlands that have been mapped by the NYSDEC.

Narrative descriptions of wetland vegetation, hydrology, and soils observed within the Project survey area are presented in the following sections. The wetlands delineated within the surveyed area are summarized in Table 4-1. Table 4-2 in Attachment B summarizes the waterbodies identified within the surveyed area. Table 4-3 in Attachment B provides the soil series information assembled for the Project area. A site plan showing the locations of delineated wetlands and waterways is provided as Figure A-1 in Attachment A.

Based on desktop analysis including a review of NYSDEC freshwater wetlands and tidal wetlands mapping, NWI mapping, and aerial photography, no wetlands will be affected by the connection to the Poletti Substation. Landfall of the 345kV cable at the Poletti Substation will be constructed via HDD, which will avoid any surface impacts at the shoreline along the East River estuary. Although the substation is located within mapped Adjacent Area to tidal wetlands, because of the existing character of the landscape as part of an urbanized environment, construction within this area is not likely to affect any nearby tidal/estuarine waters.

4.1 Vegetation

Wetland cover types were assigned to each delineated wetland according to Classification of Wetlands and Deepwater Habitats of the United States (Cowardin *et al*., 1979). Using this hierarchical wetland classification system three primary cover types were identified for vegetated wetlands in the survey area: palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands. Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation. Open water areas were identified as palustrine open water (POW).

Palustrine Emergent Wetland

The palustrine emergent wetland cover type is characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens (Cowardin et. al., 1979). The freshwater emergent wetlands along the Project survey area primarily include shallow emergent marshes, deep emergent marshes, reedgrass/purple loosestrife marshes, and ditch/artificial intermittent stream (Edinger et. al., 2002). PEM wetlands occur as a single dominant wetland cover type, and also as a co-dominant wetland type when other plant community types exist within the wetland.

Shallow emergent marshes occur on mineral soils or deep muck soils that are permanently saturated and seasonally flooded. Water depths range from 6 inches to 3.3 feet during flood stages (Edinger et. al., 2002). Characteristic vegetation of shallow emergent marshes within the Project survey area includes bluejoint grass (*Calamagrostis canadensis*), cattails (*Typha* spp.), sedges (*Carex* spp.), goldenrods (*Solidago* spp.), spotted joe-pye-weed (*Eupatorium maculatum*), reed canary grass (*Phalaris arundinacea*), scouring rush (*Equisetum hyemale*), sensitive fern (*Onoclea sensibilis*), and soft rush (*Juncus effusus*). Invasive species observed within the shallow emergent marshes include common reed (*Phragmites australis*) and purple loosestrife (*Lythrum salicaria*).

Deep emergent marshes occur on mineral soils or fine-grained organic soils with water depths ranging from 6 inches to 6.6 feet (Edinger et. al., 2002). Emergent vegetation observed within deep emergent marshes in the Project survey area includes cattails, bur-weeds (*Sparganium* spp.), bulrushes (*Scirpus* spp.), and bluejoint grass. Common reed and purple loosestrife were observed within some of the deep emergent marshes within the Project corridor.

Reedgrass/purple loosestrife marshes consist of disturbed marshes where common reed or purple loosestrife has become dominant (Edinger et. al., 2002). This community was commonly found within disturbed areas adjacent to the rail bed.

The ditch/artificial intermittent stream community consists of artificial waterways constructed for drainage or irrigation (Edinger et. al., 2002). Vegetation within the ditches is typically dominated by grasses and sedges. Invasive species such as common reed, purple loosestrife, and reed canary grass are commonly found within the ditches along the railroad ROW.

Palustrine Scrub-Shrub Wetland

The scrub-shrub wetland cover type includes areas that are dominated by saplings and shrubs that are less than 20 feet tall (Cowardin et. al., 1979). Scrub-shrub wetlands along the Project survey area were dominated by silky dogwood (*Cornus amomum*), gray dogwood (*Cornus foemina* ssp. *racemosa*), honeysuckle (*Lonicera* spp.), and speckled alder (*Alnus incana* ssp. *rugosa*). Other vegetation observed includes meadowsweet (*Spirea latifolia*), highbush blueberry (*Vaccinium corymbosum*), winterberry (*Ilex verticillata*), spicebush (*Lindera benzoin*), elderberry (*Sambucus canadensis*), gray birch (*Betula populifolia*), and northern arrowwood (*Viburnum recognitum*). Invasive species observed within scrub-shrub wetlands includes honeysuckle and buckthorn (*Frangula alnus*). PSS wetlands occur as a single dominant wetland cover type, and also as a co-dominant wetland type when other plant community types exist within the wetland.

Palustrine Forested Wetland

Forested wetland cover types are dominated by trees and shrubs that have developed a tolerance to a seasonal high water table. In order to be characterized as forested, a wetland must be dominated by trees and shrubs that are at least six meters tall (Cowardin et. al., 1979). Forested wetlands typically have a mature tree canopy, and depending upon the species and density, can have a broad range of understory and groundcover community components. Forested wetland communities along the Project survey area include red maple (*Acer rubrum*)-hardwood swamps, floodplain forest, and silver maple-ash swamps (Edinger et al., 2002). PFO wetlands occur as a single dominant wetland cover type, and also as a co-dominant wetland type when other plant community types exist within the wetland.

Red maple-hardwood swamps occur in poorly drained depressions, usually on inorganic soils. Red maple is either the only dominant tree species, or is codominant with one or more hardwoods (Edinger et. al, 2002). Hardwood species observed within this community type within the Project survey area include green and black ash (*Fraxinus pennsylvanica, F. nigra*), American and slippery elm (*Ulmus americana, U. rubra*), northern red oak (*Quercus rubra*), and white pine (*Pinus strobus*). Shrubs species commonly observed within red maple-hardwood swamps in the Project survey area include dogwoods, honeysuckle, speckled alder, and American hornbeam (*Carpinus caroliniana*). The herbaceous layer typically includes sensitive fern, cinnamon fern (*Osmunda cinnamomea*), tussock sedge (*Carex stricta*), goldenrods, reed canary grass, and royal fern (*Osmunda regalis*). Invasive species observed within red maple-hardwood forests included honeysuckle, buckthorn, and reed canary grass.

Floodplain forests typically occur on mineral soils on low terraces of river floodplains and river deltas (Edinger et al., 2002). Tree species observed within this community type in the Project survey area include green ash, cottonwood (*Populus deltoides*), red maple, silver maple (*Acer saccharinum*), American elm, box elder (*Acer negundo*), shagbark hickory (*Carya ovata*), burr oak (*Quercus macrocarpa*), and swamp white oak (*Quercus bicolor*). Shrubs included dogwoods, speckled alder, honeysuckle, American hornbeam, and buttonbush (*Cephalanthus occidentalis*). Sensitive fern, cinnamon fern, goldenrods, ostrich fern (*Matteuccia struthiopteris*), horsetail (*Equisetum* spp.), and sedges were commonly found in the herbaceous layer. Invasive honeysuckles (*Lonicera* spp.) and buckthorns (*Frangula alnus* and *Rhamnus cathartica*) were also observed in floodplain forests within the Project survey area.

Silver maple-ash swamps occur in poorly-drained depressions or along the borders of large lakes and, less frequently, in poorly drained soils along rivers. Ash-elm dominated swamps with little or no maple are currently included as part of this community type (Edinger et. al., 2002). Tree species observed within this community within the Project survey area include green ash, silver maple, elms, and cottonwood. Shrub species observed included silky dogwood, flowering dogwood (*Cornus florida*), and witch hazel (*Hamamelis virginiana*). The herbaceous layer typically included tussock sedge, jewelweed (*Impatiens capensis*), cattails, goldenrods, sensitive fern, skunk cabbage (*Symplocarpus foetidus*), and rough bedstraw (*Galium asprellum*). Invasive species observed within silver maple-ash swamps included honeysuckles, buckthorns, and reed canary grass.

Palustrine Open Water

Besides vegetated wetlands, a few scattered small ponds are located along the transmission cable corridor, adjacent to the railroad ROW. These wetland areas are characterized by a vegetation cover of less than 30 percent, although there may often be emergent or shrubby vegetation bordering the open water areas. Pond substrates may be silt, mud, cobble or sand.

4.2 Hydrology

Streams

Table 4-2 lists the streams identified within the Project study area for the surveyed portions of the Project. The underground transmission cable route is located within the Lake Champlain Basin, Upper and Lower Hudson River Basins, and Mohawk River Basin. The Lake Champlain Basin drains the area between the Adirondacks and the Green Mountains in Vermont (NYSDEC, 2009). Perennial waterbodies within the Project survey area in this watershed include Halfway Creek and abandoned sections of the Champlain Canal.

The Upper Hudson River Basin, which includes most of Saratoga and Washington Counties, originates in the Adirondack Mountains and flows south to the Hudson River confluence with the Mohawk River at the Troy Dam (NYSDEC, 2007). Perennial streams within the survey area for the underground Project route in the Upper Hudson Basin include Bond Creek, Wood Creek, Hudson River, Snook Kill, Delegan Brook, Geyser Brook, Kayderosseras Creek, and Mourning Kill.

The Mohawk River Basin watershed originates in the valley between the western Adirondacks and the Tug Hill Plateau. It flows east where it joins the Hudson River. The Mohawk River Basin includes most of Schenectady County and portions of Saratoga County (NYSDEC, 2003). Perennial streams in the study area in the Mohawk River Basin include Alplaus Kill, Poentic Kill, and the Mohawk River.

The Lower Hudson River Basin extends from the confluence with the Mohawk River at the Troy Dam to the southern end of Manhattan and includes most of Albany County and parts of Schenectady and New York Counties (NYSDEC, 2008). Perennial streams within the survey area in this watershed include Normans Kill and Vly Creek and tributaries to Vloman Kill and Coeymans Creek. The Yonkers Converter Station and Sherman Creek Substation sites are both within the lower Hudson River drainage basin; however, no wetlands or waterbodies have been identified on these properties.

Wetlands

Site hydrology was examined within each wetland and adjacent upland areas. Indicators of wetland hydrology included inundation or evidence of inundation (such as water stained leaves or buttressed tree trunks), trees with shallow roots, saturation within the upper portion of the soil during the growing season, drainage patterns and drift lines within wetlands, sediment deposition, and oxidized root channels in the upper 12 inches of soil. Hydrologic factors contributing to the presence of wetland hydrology within wetlands in the survey area included inundation with river, pond, or stream water, temporarily ponded snowmelt and runoff, and seasonally to permanently shallow groundwater tables.

Hydrology along the Project corridor has been historically altered by railroad drainage ditches. TRC and HDR|DTA inspected these ditches for the presence or absence of wetland indicators and hydrologic connectivity to wetlands or streams. Ditches that met the three parameters for wetland delineation (i.e., presence of hydrology, hydric soils, and hydrophytic vegetation) and were hydrologically connected to a wetland or stream were identified as a wetland community. Artificial railroad or roadside ditches without hydrologic connectivity to other wetlands, lacking dominant wetland vegetation, or otherwise not meeting the three parameter approach for most of the length of the ditch were mapped in the field but were not included as jurisdictional wetlands.

4.3 Soils

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) (formerly the Soil Conservation Service) soil map units for the Project survey area are provided on Figure A-2. Within the Project survey area, a total of 107 different soil types have been mapped by the NRCS. The mapped soil types range from excessively drained to very poorly drained soils. According to the National List of Hydric Soils prepared by the NRCS (2009), twenty five (25) of the soils mapped within the Project corridor are classified as hydric soils. Hydric soils are defined as soils “that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part of the soil” (Federal Register, 1994). Table 4-3 summarizes the soil series in the Project survey area and lists the soils that are classified as hydric (or associated with wetland hydrology) in the Project survey area.

The majority of soils within the Project survey area are formed from glacial parent materials including outwash, dense till, loose till, and glaciomarine deposits. In active floodplains, soils are formed in recent alluvium. Anthropogenically disturbed soils, associated with railroad construction and operation, are common within the Project survey area. The disturbed soils consist of disturbed natural deposits or human transported materials.

TRC and HDR|DTA conducted soil profile characterizations in the survey area to confirm the presence or absence of hydric soil indictors. Typical hydric soil indicators in the Project survey area included ponded or flooded soils, organic soils and soils with organic surface horizons resulting from long periods of saturation, soils with a subsoil matrix depleted of iron near the surface, and soils with dark surface horizons underlain by subsoils with redoximorphic features grading to a depleted matrix near the surface.

Upland soils in the Project survey area typically exhibited brown to dark brown surface horizons underlain by brown to yellowish brown subsoils. Redoximorphic features indicative of periodic short term saturation, such as iron concentrations and pore linings, were sometimes present in upland subsoils but hydric soil morphologies were absent.

4.4 Natural Resource Conservation Service Soil Series Descriptions

The following are the abbreviated descriptions of each of the relevant soil types taken from the county soil surveys (USDA, SCS, 1975; USDA, NRCS, 1992; USDA, NRCS, 2004) and the USDA (Natural Resource Conservation Service) Official Soil Series Descriptions Online Soils Database and the Soil Survey Geographic Database (SSURGO) for Albany, Saratoga, Schenectady, Washington, and Westchester Counties, New York (USDA, NRCS). Additional information regarding relevant soil characteristics are also summarized in Table 4-3.

Allis Series

These moderately deep, poorly drained soils formed in glacial till over soft, acid shale bedrock. Slopes range from 0 to 3 percent. The A horizon is typically dark grayish brown silt loam. The B horizon is gray silty clay with fine and medium prominent strong brown redoximorphic features. The C horizon, where present, has color and texture similar to the B horizon.

Birdsall Series

These very deep, very poorly drained soils formed in water-laid deposits of silt and very fine sand. They are found in depressional areas of terraces on old lakebeds. Slopes range from 0 to 2 percent. The A horizon is black silt loam with moderate medium granular structure. The B horizon is gray silt loam with distinct yellowish brown and strong brown redoximorphic features. It has a weak coarse subangular blocky structure. The C horizon is gray very fine sandy loam with distinct yellowish brown redoximorphic features. The structure is weak coarse prismatic, or the horizon is massive.

Broadalbin Series

These very deep and well drained to moderately well drained soils formed in a loamy eolian mantle and underlying glacial till. They are found on the sides and tops of hills in uplands.

Slopes range from 3 to 25 percent. The A horizon is dark grayish brown with a silt loam texture and granular structure. The B horizon is typically yellowish brown silt loam with blocky structure. The C horizon is olive yellow and dark yellowish brown fine sandy loam with massive structure.

Burdett Series

These very deep, somewhat poorly drained soils formed in a silty mantle and the underlying clayey glacial till. They are found on the lower slopes of hills on the till plains. The A horizon is dark grayish brown silt loam with yellowish brown redoximorphic features. The structure is subangular blocky. An E horizon is sometimes present. The B horizon is dark grayish brown or olive brown with yellowish brown or dark yellowish brown redoximorphic features. The texture is silty clay loam or clay loam and the structure is platy or angular or subangular blocky. The C horizon is typically a dark grayish brown silt loam with olive brown and gray redoximorphic features and massive structure.

Carlisle Series

These deep and very poorly drained organic soils formed in woody fibrous material that accumulated in waterlogged bogs. They are nearly level and are found in depressions within glaciated uplands, lake plains, and outwash plains. The surface is layer is black organic material 10 inches thick. Below this layer is a 15-inch layer of black, massive, well decomposed organic material. The following 49 inches is composed of dark reddish-brown, massive, well-decomposed organic material. From a depth of 74 to 80 inches is very dusky red, massive, neutral, fibrous organic material. Below 80 inches is a 6-inch layer of light-gray, slightly sticky and slightly plastic, calcareous marl and 24 inches of dark-dray, massive, slightly sticky and slightly plastic, calcareous silt.

Castile Series

These very deep, moderately well drained soils formed in water-sorted gravel. They are found on glacial outwash plains, valley trains, eskers, and water-deposited moraines. Slopes range from 0 to 8 percent. The A horizon is dark brown gravely loam with weak fine granular structure. The B horizon is brown to dark yellowish brown sandy loam to silt loam with yellowish brown and light brownish gray redoximorphic features. The structure of the B horizon is weak medium subangular blocky. The C horizon is dark brown stratified sands and gravel with dark brown redoximorphic features

Charlton Series

These deep, well drained soils formed in glacial till from syenite and granite gneiss. Slopes range from 0 to 50 percent. The A horizon is very dark grayish-brown sandy loam 2 inches thick. It has a weak granular structure. The upper 5 inches of the B horizon is dark-brown sandy loam and the lower 21 inches is yellowish-brown sandy loam. The B horizon has weak subangular blocky structure. The C horizon is light olive brown sandy loam with pockets of loamy sand. The horizon is massive.

Cheektowaga Series

These very deep, poorly drained or very poorly drained soils formed in sandy deposits over clayey lacustrine sediments on lake plains and terraces. Slopes range from 0 to 3 percent. The A horizon is typically very dark grayish brown with a loamy sand through very fine sandy loam texture, commonly with mucky analogs. The structure is weak or moderate, very fine or granular. The E horizon is light brownish gray with yellowish brown redoximorphic features and subangular blocky structure. The structure is loamy fine sand through sand. The B horizon is grayish brown with loamy fine sand through sand texture. The structure is very weak or weak subangular blocky or very weak or weak platy structure. The C horizon is yellowish brown to gray with high- and low-chroma redoximorphic features. Its texture is silty clay loam through clay. The C horizon is massive or has platy structure.

Chenango Series

These very deep and well drained or somewhat excessively drained soils formed in glacial outwash deposits. They are found on outwash terraces and plains. Slopes range from 0 to 25 percent. The A horizon is typically dark brown gravelly silt loam with granular structure. The B horizon is yellowish brown gravelly silt loam with subangular blocky structure in the upper part and yellowish brown and brown very gravelly loam with granular structure in the lower part. The BC horizon is very dark grayish brown and yellowish brown fine sandy loam, loam, very fine sandy loam, or silt loam. It is massive or has subangular blocky or granular structure. The C horizon is generally dark grayish brown and yellowish brown loam or silt loam with massive structure.

Claverack Series

These very deep, moderately well drained soils formed in sandy deposits that overlie clayey lacustrine sediments. They are nearly level to sloping soils in shallow deltas on lake plains. The sand, which overlies finer textured sediments, is dominated by quartz and has been derived primarily from non-calcareous sandstone or granite. Slope ranges from 0 to 15 percent. Typically, the A horizon consists of a fine sand and is usually a dark grayish brown color. The B horizon consists of structureless sand. In some places, the lower part of the B horizon has gray or grayish brown redoximorphic features below a depth of 18 inches. The C horizon is a silty clay loam or clay with some sub-horizons of silt or loam, up to 5 inches thick.

Colonie Series

These very deep, well drained to somewhat excessively drained soils formed in lacustrine and windblown deposits dominantly fine sand and very fine sand. They are found on lake plains, deltas, and dunes. Slopes range from 0 to 50 percent. The A horizon is generally dark brown loamy fine sand with granular structure. The B horizon is a massive dark yellowish brown loamy fine sand. The C horizon is brown loamy fine sand with massive structure.

Cosad Series

These very deep and somewhat poorly drained soils were formed in sandy deposits over clayey lacustrine sediments in slight depressional areas on lake plains. Slopes range from 0 to 3 percent. The A horizon is typically very dark grayish brown with a fine sandy loam texture and brownish yellow redoximorphic features. The structure is granular. The B horizon is yellowish brown or dark yellowish brown loamy fine sand with brown redoximorphic features and subangular blocky structure. The C horizon is typically dark yellowish brown clay with platy structure.

Covington Series

These very deep and poorly drained soils formed in calcareous clayey glacio-lacustrine or glacio-estuarine deposits on glacial lake plains. These soils are found on broad plains, depressions, and drainageways. Slopes range from 0 to 8 percent. The A horizon consists of very dark brown silty clay or silty clay loam with granular or blocky structure, to a depth of 8 inches. The B horizon is dark gray firm to very firm, sticky or plastic clay with thin sub-horizons of silty clay, extending to a depth of 33 inches. High chroma redoximorphic features are typical of this horizon. The C horizon is typically dark gray firm to very firm, sticky or plastic clay or silty clay, although silt and silt loam varves alternate with clay varves in some pedons. The C horizon may extend to a depth of 65 inches, and has redoximorphic features similar to the B horizon.

Deerfield Series

These very deep, moderately well drained soils are formed in water sorted sand on glacial outwash plains, deltas, and terraces. Slopes range from 0 to 8 percent. The A horizon is a very dark grayish brown loamy fine sand with granular structure. The B horizon is typically dark yellowish brown loamy fine sand with yellowish red or brown redoximorphic features and granular structure. The C horizon is yellowish brown fine sand with brownish yellow and grayish brown redoximorphic features.

Elmridge Series

These very deep, moderately well drained soils formed in loamy over clayey glacio-lacustrine or marine sediments. This soil is found on lake plains and glacial lake and marine terraces. Slope ranges from 0 to 25 percent. The A horizon, typically 4 to 11 inches thick, consists of very dark grayish brown fine sandy loam with weak or moderate granular structure. Generally, the B horizon is dark yellowish brown, yellowish brown or brown fine sandy loam or loam, with iron depletions at depths greater than 24 inches. The C horizon is typically olive brown varved silt and clay, occasionally with lenses of very fine sandy loam or fine sandy loam at depths greater than 40 inches. The C horizon is massive, or may have platy or weak prismatic structure.

Elnora Series

These very deep and moderately well drained soils formed in wind- or lacustrine-deposited sands. They are found on glacial lake plains and deltas. Slopes range from 0 to 8 percent. The

A horizon is dark brown loamy fine sand with granular structure in the upper part and very dark gray loamy fine sand with weak subangular blocky structure in the lower part. The B horizon is yellowish brown fine sand with few yellowish red and brownish gray redoximorphic features in the lower part of the horizon. The structure is subangular blocky. The C horizon is dark gray loamy fine sand with common grayish brown redoximorphic features.

Fluvaquents

These very deep, somewhat poorly drained to very poorly drained soils formed in material recently deposited by streams and rivers. They are found on the most actively flooded areas of floodplains along major and secondary streams. Slopes range from 0 to 3 percent. Little or no soil profile development is seen in Fluvaquents. The surface layer typically has a hue of 10YR through 5Y, with low value and chroma. The textures are loamy sand to silt loam and may be gravelly or very gravelly. The substratum typically has a hue of 10YR to 5Y with values of 3 through 6 and chroma of less than 2. Redoximorphic features are commonly present in the substratum. The textures are sandy loam to silty clay loam and may be gravelly or very gravelly.

Fredon Series

These very deep, poorly drained and somewhat poorly drained soils formed in glaciofluvial materials. They are found on outwash terraces and outwash plains. Slopes range from 0 to 8 percent. The A horizon is very dark gray loam, fine sandy loam, very fine sandy loam, or silt loam with granular structure. The B horizon is grayish brown loam, fine sandy loam, very fine sandy loam, or silt loam. Iron concentrations are present in the B horizon. Its structure is weak or moderate subangular blocky, weak coarse prismatic, or moderate coarse platy. The C horizon is dark grayish brown sand to loamy fine sand and is commonly stratified.

Granby Series

These very deep, poorly drained to very poorly drained soils formed in water- or wind-deposited sands. They are found on glacial lake plains or deltas. Slopes range from 0 to 2 percent. The A horizon is black loamy fine sand with weak granular structure. The B horizon is gray fine sand with few to many redoximorphic features. The texture is fine sand, sand, loamy sand, or loamy fine sand and the structure is weak subangular blocky or granular. The C horizon is dark gray fine sand or sand with few to many redoximorphic features.

Hollis Series

These shallow, somewhat excessively drained soils formed in glacial till. Slopes range from 0 to 60 percent. The A horizon is dark brown loam 4 inches thick with weak granular structure. The upper 4 inches of the B horizon is strong-brown sandy loam and the lower 11 inches is yellowish-brown fine sandy loam. The B horizon has weak granular or weak blocky structure. Bedrock is at a depth of 19 inches.

Hornell Series

These moderately deep, somewhat poorly drained soils formed in glacial till over soft, acid shale or siltstone bedrock. Slopes range from 3 to 8 percent. The A horizon is dark grayish brown silt loam with subangular blocky structure. The B horizon is mottled, strong brown clay loam overlying dark gray shale bedrock. The B horizon has an angular blocky structure.

Howard Series

These very deep, well drained and somewhat excessively drained soils formed in glacial outwash derived mainly from sandstone, limestone, shale, and some granitic rocks. They are found on outwash plains, kames, and terraces. Slopes range from 0 to 8 percent. The A horizon is generally very dark grayish brown gravelly silt loam with weak granular structure. The E horizon is brown very gravelly silt loam with weak subangular blocky structure. The B/E horizon is dark yellowish brown and pale brown with a texture ranging from silt loam to sandy loam or sandy clay loam. The B horizon is dark brown and dark yellowish brown with a texture ranging from silt loam to sandy clay loam. Its structure is subangular blocky. The C horizon is very dark grayish brown fine and very fine gravel.

Hudson Series

These very deep, moderately well drained soils formed in clayey and silty lacustrine sediments. These soils are in convex lake plains, lacustrine capped uplands, and on lower valley side-slopes. Slopes can range from 0 to 60 percent. The A horizon is typically brown silt loam and silty clay loam, with granular structure, extending 5 to 12 inches deep. The E horizon, when present, consists of faintly-mottled brown, very fine sandy loam or silt loam with blocky or platy structure. The B horizon generally is firm yellowish brown to brown silty clay with moderate or strong blocky structure, and may have medium to very coarse prisms. Low- and high-chroma redoximorphic features are present, but may be faint or absent in the shallower portions. The C horizon is mixed grayish brown and light olive brown silty clay, with massive structure, or plate-like divisions.

Ilion Series

These very deep and poorly drained soils formed in clayey glacial till at the base of slopes and in depression on till. Slopes range from 0 to 3 percent. The A horizon is typically very dark gray silt loam with granular structure. The E horizon is grayish brown or dark grayish brown silt loam, with dark yellowish brown and yellowish brown redoximorphic features. The E horizon typically has a subangular blocky structure. The B horizon is typically grayish brown or dark grayish brown with yellowish brown redoximorphic features. The B horizon texture is clay loam or silty clay loam. The structure is subangular blocky. The C horizon is grayish brown or dark grayish brown with loam, silt loam, or silty clay loam texture. It typically contains medium yellowish brown redoximorphic features. The structure is massive or platy.

Junius Series

These very deep, poorly drained soils formed in permeable water deposited sandy material. Slopes range from 0 to 3 percent. The A horizon is very dark grayish brown with fine sand, loamy fine sand, or fine sandy loam texture and weak granular structure. The B horizon is brown loamy fine sand with very weak granular structure in the upper part and grayish brown fine sand in the lower part. Grayish brown and yellowish brown redoximorphic features are present below a depth of 8 inches. Its structure is granular or single grain. The C horizon is grayish brown stratified fine and medium sand with faint gray and yellowish brown redoximorphic features. It is massive or single grained.

Kingsbury Series

These very deep, somewhat poorly drained soils formed in clayey glacio-marine or glacio-lacustrine sediments. They are nearly level or gently sloping, ranging from 0 to 8 percent slope. The A horizon is typically very dark grayish brown silt loam, and texture can range from very fine sandy loam to clay. This horizon has granular or blocky structure. The E horizon generally is mixed brown and yellowish brown silty clay, but can be silt loam or very fine sandy loam, with blocky to platy structure. Redoximorphic features occur throughout. The B horizon typically consists of dark grayish brown clay, mixed with yellowish brown clay in the shallower portions. Typically, it has greater than 50 percent redoximorphic depletions on ped faces with concentrations in ped interiors. This horizon generally has blocky structure, within coarse or very coarse prisms. The C horizon generally has similar color to the deeper portions of the B horizon, although redoximorphic features generally have lower contrast. This horizon ranges from silty clay loam to clay in texture, and has massive structure, which, when disturbed, can part into aggregates resembling very fine blocky structure.

Limerick Series

These deep, poorly drained soils formed in alluvial deposits of silt and very fine sand. They are nearly level and are found in low areas on flood plains. The A horizon is very dark grayish-brown about 3 inches thick. The structure of the A horizon is granular. The C horizon is typically a silt loam or very fine sandy loam that extends to a depth of 50 inches or more. The C horizon has grayish brown redoximorphic features to a depth of 14 inches, olive gray redoximorphic features between depths of 14 and 26 inches, and gray redoximorphic features below 26 inches. The C horizon is massive or has a subangular blocky or granular structure.

Madalin Series

These very deep and poorly drained to very poorly drained soils formed in water deposited material high in clay, on glacial lake plains. Slopes range from 0 to 3 percent. The A horizon is typically a black mucky silty clay loam with granular structure. The B horizon is gray with a silty clay texture and yellowish brown redoximorphic features. The structure is subangular or angular blocky. The C horizon is dark gray clay with yellowish brown and dark grayish brown redoximorphic features. The structure is massive.

Manlius Series

These moderately deep, well drained to excessively drained soils formed in glacial till deposits. They are found on bedrock-controlled landforms on uplands. Slopes range from 3 to 35 percent. The A horizon is typically very dark grayish brown silt loam with granular structure. The B horizon is brown silt loam with granular structure in the upper part and subangular blocky structure in the lower part. The C horizon is dark grayish brown silt loam with very weak subangular blocky structure.

Mardin Series

These very deep and moderately well drained soils formed in loamy till. They are found in glaciated uplands, mostly on broad hilltops, shoulder slopes, and backslopes. Slopes range from 0 to 50 percent. The A horizon is brown silt loam with granular structure. The B horizon is yellowish brown loam or silt loam with subangular blocky or granular structure. The E horizon is pale brown loam or silt loam with light brownish gray redoximorphic features below 12 inches and weak subangular blocky or platy structure. Underlying the E horizon is light olive brown loam or silt loam with faint to prominent brown depletions and prismatic structure. The C horizon is light olive brown silt loam. The horizon is massive or has weak plate-like divisions.

Mosherviller Series

These very deep and somewhat poorly drained soils formed in a loamy eolian mantle and underlying glacial till in uplands. Slopes range from 0 to 8 percent. The A horizon is very dark grayish brown silt loam with granular structure. The B horizon is typically a light olive brown loam with dark yellowish brown redoximorphic features and subangular blocky structure. The C horizon is olive brown gravelly fine sandy loam with platy structure.

Nassau Series

These shallow, somewhat excessively drained soils formed in a thin mantle of glacial till over folded or weathered shale bedrock. They are found on bedrock-controlled landforms. Slopes range from 3 to 25 percent. The A horizon is dark grayish brown silt loam with granular structure. The B horizon is yellowish brown silt loam with subangular blocky structure. The C horizon, if present, is thin with a loam or silt loam texture.

Nunda Series

These very deep and moderately well drained soils formed in a thin silty mantle over glacial till derived from clayey shale. They are generally found on the tops and sides of hills and along valley sides. Slopes range from 3 to 35 percent. The A horizon is dark brown silt loam with granular structure. The E horizon, where present, is yellowish brown to light yellowish brown silt loam with weak platy structure. The B horizon is brown silt loam, loam, or fine sandy loam with subangular blocky structure. Redoximorphic features generally begin at 16 inches or greater. The C horizon is dark grayish brown to very dark grayish brown clay loam or silty clay loam with faint brown redoximorphic features. The structure is thick platy to angular blocky.

Oakville Series

These very deep and well drained or moderately well drained soils were formed in water-sorted sand on glacial outwash plains, lake plains, and beach ridges. Slopes range from 0 to 35 percent. The A horizon is dark yellowish brown with a loamy fine sand texture and granular structure. The B horizon is yellowish brown loamy fine sand with subangular blocky structure. The C horizon is typically yellowish brown with a sand or loamy fine sand texture.

Orthents and Psamments

This map unit consists of material dredge and pumped from the Hudson River and Champlain Barge Canal. The material is composed of a variable mixture of dominantly fine gravel and sand and some silt and clay.

Palm Series

These very deep, very poorly drained soils formed in well-decomposed organic material overlying mineral soil. They are found in depressional areas or basins that were formerly lakes or ponds. Slopes are less than 2 percent. The organic layers consist of highly decomposed herbaceous material. The mineral C horizon is grayish brown to greenish gray with yellowish brown or olive redoximorphic features. The textures are silt loam, fine sandy loam, loamy very fine sand, very fine sand, or silty clay loam.

Plainfield Series

These very deep, excessively drained soils formed in sandy drift on outwash plains, valley trains, glacial lake bains, stream terraces, and moraines and other upland areas. Slopes range from 0 to 70 percent. The A horizon is dark brown with weak granular structure. Its texture is loamy sand, loamy fine sand, sand, or fine sand. The E horizon, where present, is brown loamy sand, coarse sand, and their gravelly analogs. The B and BC horizons are brown sand with subangular blocky structure. The C horizon is yellowish brown sand, coarse sand, or their gravelly analogs.

Raynham Series

These very deep, poorly drained soils formed in deposits of lacustrine silts and very fine sands. They are found on lake plains. Slopes range from 0 to 3 percent. The A horizon is typically a very dark grayish brown very fine sandy loam with weak granular structure. The B horizon is brown or grayish brown very fine sandy with distinct or prominent yellowish brown redoximorphic features. The C horizon is brown or grayish brown very fine sandy loam or silt loam with faint to prominent redoximorphic features. It is massive or has a platy structure.

Rhinebeck Series

These very deep, somewhat poorly drained soils formed in glacio-lacustrine sediments having a high clay and silt content. They are found on glacial lake plains and uplands mantled with lake sediments. Slopes can range from 0 to 15 percent. Typically, the A horizon is brownish gray silt loam, to a depth of about 13 inches. The B horizon is brown silt loam or clay. The C horizon extends to a depth of about 60 inches and varies in texture from loam to sandy loam and includes layers of silt, loam and clay.

Riverhead Series

These very deep, well drained soils formed in glacial outwash, beach, and deltaic deposits. They are found on terraces near Normans Kill, on ridges in the lake plain, and on slopes above the Mohawk River. Slopes range from 0 to 15 percent. The A horizon is dark brown with a texture of fine sandy loam, sandy loam, or loam. The structure ranges from weak to moderate granular. The B horizon is yellowish brown with a fine sandy loam to sandy loam texture, becoming gravelly with depth. The structure is weak subangular blocky, or the horizon is massive. The C horizon is olive brown with a loamy sand or sand texture. It is structureless.

Rock outcrop

Areas mapped as rock outcrop consist of bare bedrock covering 90 percent of the surface. Where mapped with Hollis soils, it typically consists of exposures of syenite or granite gneiss, and in places, quartzite.

Saco Series

These very deep, very poorly drained soils formed in recent alluvium on floodplains. Slopes range from 0 to 2 percent. The A horizon is very dark grayish brown silt loam or very fine sandy loam, or their mucky analogs. It is massive or has weak granular structure. Strong brown and grayish brown redoximorphic features are present beginning at a depth of 10 inches. The C horizon is grayish brown or olive gray with a silt loam or very fine sandy loam texture above a depth of 40 inches and loamy fine sand to very gravelly coarse sand texture below 40 inches. The C horizon is massive or has weak structure.

Saprists, Aquepts, and Aquents

These soils consist of low-lying, level deposits of organic and mineral soil material that is ponded with shallow water most of the year. They are mainly found around the edges of lakes and ponds.

Scio Series

These very deep, moderately well drained soils formed in deposits of silt and very fine sand on glacial lake plains. Slopes range from 0 to 8 percent. The A horizon is typically a dark grayish brown silt loam with dark yellowish brown redoximorphic features and granular structure. The B horizon is a brown or yellowish brown silt loam with dark yellowish brown or brown redoximorphic features and subangular blocky structure. The C horizon is dark yellowish brown with a silt loam texture and massive structure.

Scriba Series

These soils consist of very deep, somewhat poorly drained soils formed in glacial till. The A horizon is very dark grayish brown gravelly loam with granular structure. The E horizon is grayish brown gravelly fine sandy loam with very weak platy structure. It contains high- and low-chroma redoximorphic features. The B horizon is brown gravelly fine sandy loam. The structure is coarse prismatic. High- and low-chroma redoximorphic features are present within the horizon. The C horizon is brown very gravelly fine sandy loam with faint brown iron concentrations. It is massive or has platy structure.

Shaker Series

These very deep, poorly drained soils formed in a loamy mantle over clayey lacustrine sediments on lake plains and terraces. Slopes range from 0 to 3 percent. The A horizon is very dark grayish brown very fine sandy loam. The B horizon is dark grayish brown with dark brown redoximorphic features. The texture is sandy loam through loam and the structure is blocky. The C horizon is olive and gray with a silty clay loam through clay texture. The structure is massive or prismatic.

Stafford Series

These very deep, somewhat poorly drained soils formed in water-deposited sands and are found on sandy deltas and plains. Slopes range from 0 to 3 percent. The A horizon is very dark grayish brown loamy fine sand or fine sand. The structure is weak granular. The B horizon is pale or grayish brown with reddish brown, light brown gray, or yellowish brown redoximorphic features. The texture of the B horizon is loamy fine sand or fine sand and it has a subangular block or platy structure. The C horizon is dark gray with yellowish brown redoximorphic features. It is fine sand or sand and is structureless, single grain, or massive.

Sudbury Series

These very deep, moderately well drained soils formed in sandy glacial outwash deposits in beach and deltaic deposits. They are found on terraces near Normans Kill and on the lake plain. Slopes range from 0 to 8 percent. The A horizon is dark brown fine sandy loam with subangular blocky structure. The B horizon is yellowish brown with dark brown, yellowish brown, or light grayish brown redoximorphic features in the lower part of the horizon. The texture is fine sandy loam to loamy sand and the structure is subangular blocky. The C horizon is yellowish brown loamy sand yellowish brown, dark brown, or light brownish gray redoximorphic features. The texture is loamy sand, sand, or gravelly analogs above 40 inches. The horizon has a massive or single grain and loose structure.

Sun Series

These very deep, poorly drained or very poorly drained soils formed in glacial till in slight depressions on uplands. Slopes range from 0 to 3 percent. The A horizon is very dark gray silt loam with yellowish red redoximorphic features. The structure is granular. The B horizon is dark gray and dark grayish brown silt loam with distinct yellowish brown or dark yellowish brown redoximorphic features. The texture is silt loam to loam and the structure is blocky. The C horizon is dark grayish brown cobbly fine sandy loam with olive brown and strong brown redoximorphic features.

Teel Series

These very deep and moderately well drained soils formed in recent alluvium on floodplains. Slopes range from 0 to 3 percent. The A horizon is dark grayish brown with a silt loam texture and yellowish brown redoximorphic features. The structure is granular. The B horizon is a brown silt loam with dark grayish brown and dark yellowish brown redoximorphic features and subangular structure. The C horizon is yellowish brown with dark brown, light brownish gray, and strong brown redoximorphic features. The texture is silt loam or very fine sandy loam and the structure is massive.

Udipsamments Series

This series consists of very deep, well drained to excessively drained soils on lake plains, deltas, floodplains, and dunes that have been smoothed or filled. Many areas mapped as Udipsamments resulted from dredging pumped from the Hudson River to deepen existing shipping channels. Slopes range from 0 to 8 percent. The A horizon is brown with textures ranging from loamy very fine sand and fine sandy loam to sand. The B horizon is brown and the texture is loamy fine sand or sand. The C horizon is grayish brown with a loamy fine sand or sand texture.

Udorthents Series

These very deep, moderately well drained and well drained soils are commonly found near construction sites or urban developments that have been recently cut and filled. Slopes range from 0 to 8 percent. The composition of Udorthents is variable and the soils may have little or no profile development. The surface layer has a hue of 7.5YR to 2.5Y, value of 2 to 5, and chroma of 2 to 4, and its texture ranges from fine sandy loam to clay. The subsoil has a hue of 7.5YR to 5Y, value of 3 to 6, and chroma of 2 to 6, and is commonly mottled. The texture ranges from fine sandy loam to clay. The substratum has a hue of 5YR to 5Y, value of 1 to 6, and chroma of 1 to 6, with textures ranging from fine sandy loam to clay.

Unadilla Series

These very deep, well drained soils formed in deposits of silt and very fine sand on glacial lake plains. Slopes range from 3 to 15 percent. The A horizon is typically dark brown with a silt loam or very fine sandy loam texture and granular structure. The B horizon is a yellowish brown silt loam or very fine sandy loam with subangular blocky structure. The C horizon is yellowish brown with a silt loam or loamy very fine sand texture and massive structure.

Urban Land

Urban Land consists of nearly level to strongly sloping areas where asphalt, concrete, buildings, or other impervious materials cover more than 85 percent of the surface. Slopes range from 0 to 15 percent. This map unit includes very few areas of soil material, and those areas which are used mainly as lawns or landscaping have been disturbed by adjacent building activities.

Vergennes Series

These very deep, moderately well drained soils formed in calcareous estuarine and glacio-lacustrine clays. They are on broad plains and on the tops and side-slopes of hills and ridges, with slopes ranging from 0 to 50 percent. The A horizon is generally dark grayish brown clay that has blocky structure. Occasionally, a clay, silty clay, silty clay loam, or silt loam E horizon is present. The B horizon is typically brown clay, with more dark grayish brown color with depth. The C horizon is generally clay with silt and silty clay varves.

Wallington Series

These deep and somewhat poorly drained soils formed in glacial lake or stream terrace deposits of silt and very fine sand. They are nearly level. The A horizon is dark grayish-brown silt loam and has a depth of 9 inches. The structure of the horizon is granular. The B horizon is an olive silt loam with yellowish brown and gray redoximorphic features and subangular blocky structure. The horizon is 3 inches in depth. Underlying the B horizon is a 5-inch leached layer of mottled gray silt loam. The subsoil is dark yellowish-brown silt loam with gray redoximorphic features to a depth of 32 inches and mottled gray silt loam below. The C horizon is gray, loose loamy fine sand with distinct redoximorphic features.

Wareham Series

These very deep and somewhat poorly or poorly drained soils formed in water-sorted sand on glacial outwash plains, lake plains, and deltas. Slopes range from 0 to 3 percent. The A horizon is a very dark gray loamy sand with yellowish brown redoximorphic features. The structure is granular. The B horizon typically consists of a light brownish gray or yellowish brown loamy sand with brown redoximorphic features and subangular blocky structure. The C horizon is typically light brownish gray sand with brown redoximorphic features and massive structure.

Wayland Series

These very deep, poorly drained and very poorly drained, nearly level soils formed in recent alluvium. These soils are found in low areas or slackwater areas on flood plains. Slope ranges from 0 to 3 percent. Typically, the A horizon is very dark brown silty loam with a fine to coarse granular structure. The B horizon, up to 24 inches thick, is grayish brown silt loam or silty clay loam, usually containing high-chroma redoximorphic features. The C horizon is gray silt loam and usually has redoximorphic features similar to the B horizon.

Windsor Series

These very deep and excessively drained soils formed in water-sorted sand on glacial outwash plains, kames, and terraces. Slopes range from 0 to 35 percent. The A horizon is very dark grayish brown with a loamy sand or loamy fine sand texture and granular structure. The B horizon is yellowish brown. The texture is loamy fine sand or loamy sand in the upper part and loamy fine sand, loamy sand, fine sand or sand in the lower part. The structure is granular or subangular blocky. The C horizon is light yellowish brown with a sand or loamy sand texture.

5.0 SUMMARY

Wetlands identified along the Project route include shallow emergent marshes, deep emergent marshes, reedgrass/purple loosestrife marshes, scrub-shrub wetlands, and forested wetlands such as red maple-hardwood swamps, floodplain forests and silver maple-ash swamps. These wetlands can provide one or more functions, including wildlife habitat, groundwater recharge and/or discharge, sediment and shoreline stabilization, flood storage, nutrient removal, sediment and toxicant retention and production export, and in some cases, aesthetic and recreational value. Small ponds, artificial ditches, and watercourses, including small intermittent streams to large rivers such as the Hudson River, Mohawk River and Snook Kill, occur within the study area of the Project.

Land use in the study area is diverse, ranging from rural, agricultural, and forested areas to highly urbanized environments in and around the City of Schenectady. In general, because the Project is routed along existing railroad corridors, many wetlands within the study area are characterized by previous anthropogenic disturbance and/or the presence of invasive plant species. The Project corridor frequently is located along the edge between the disturbed railroad corridor and more natural vegetated wetland communities that are present adjacent to the railroad rights-of-way. The wetland boundaries in the study area are most often defined by the edge of the soil fill for the railroad embankment.

Impacts to wetlands and watercourses along the underground transmission cable corridor will be primarily temporary, since the cable will be installed belowground. At this time, permanent fill or loss of vegetated wetlands is not anticipated. Since wetland impacts will be temporary, and located along the edge of an existing, disturbed railroad corridor, it is expected that the Project will not result in any significant adverse impacts to the functions and values of the wetland identified in this report.

6.0 REFERENCES

Browne, S. et. al. 1995. New York State Freshwater Wetlands Delineation Manual. New York State Department of Environmental Conservation, Division of Fish and Wildlife, Bureau of Habitat, Albany, NY.

Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service. 103 pp.

Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY. Accessed online February 1, 2010 at: http://www.dec.ny.gov/animals/29392.html

[EPA and USACE] U.S. Environmental Protection Agency and U.S. Army Corps of Engineers, 2007. Clean Water Act Jurisdiction Following Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. June 5, 2007.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

[NYSDEC] New York State Department of Environmental Conservation, Bureau of Watershed Assessment and Research. 2003. The 2002 Mohawk River Basin Waterbody Inventory and Priority Waterbodies List. Accessed online February 2, 2010 at: http://www.dec.ny.gov/docs/water_pdf/pwlmhwk03.pdf

[NYSDEC] New York State Department of Environmental Conservation, Bureau of Watershed Assessment and Research. 2007. The 2003 Upper Hudson Basin Waterbody Inventory and Priority Waterbodies List. Accessed online February 2, 2010 at: http://www.dec.ny.gov/docs/water_pdf/pwluhud07.pdf

[NYSDEC] New York State Department of Environmental Conservation, Bureau of Watershed Assessment and Research. 2008. The 2008 Lower Hudson Basin Waterbody Inventory and Priority Waterbodies List. Accessed online June 22, 2010 at: http://www.dec.ny.gov/docs/water_pdf/pwllhudintr.pdf

[NYSDEC] New York State Department of Environmental Conservation, Bureau of Watershed Assessment and Research. 2009. The Lake Champlain Basin Waterbody Inventory and Priority Waterbodies List. Accessed online February 3, 2010 at: http://www.dec.ny.gov/docs/water_pdf/pwlchmpasmt.pdf

Reed, P. B., Jr. 1988. *National List of Plant Species that Occur in Wetlands: 1988 National Summary.* Biological Report 88(24). Washington, DC: U.S. Fish and Wildlife Service.

[USACE] U.S. Army Corps of Enginners. 1987. Corps of Engineers Wetland Delineation Manual. Technical Report U-87-1. Waterways Experiment Station, Vicksburg, MS.

[USACE and EPA] U.S. Army Corps of Engineers and Environmental Protection Agency. 2007. US Army Corps of Engineers Jurisdictional Form Instructional Guidebook.

[USACE] U.S. Army Corps of Engineers. June 26, 2008. Regulatory Guidance Letter. Subject: Jurisdictional Determinations.

[USACE] U.S. Army Corps of Engineers. 2009. *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

[USDA, NRCS] U.S. Department of Agriculture, Natural Resource Conservation Service. 1992. Soil Survey of Albany County, New York. USDA, NRCS, in cooperation with Cornell University Agricultural Experiment Station.

[USDA, NRCS] U.S. Department of Agriculture, Natural Resource Conservation Service. 2004. Soil Survey of Saratoga County, New York. USDA, NRCS, in cooperation with Cornell University Agricultural Experiment Station.

[USDA, NRCS] U.S. Department of Agriculture, Natural Resource Conservation Service. 2006. Field Indicators of Hydric Soils in the United States, Version 6.0. G.W. Hurt and L.M. Vasilas (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils. Accessed online February 2, 2010 at: ftp://ftp-fc.sc.egov.usda.gov/NSSC/Hydric_Soils/FieldIndicators_v6_0.pdf

[USDA, NRCS] U.S. Department of Agriculture, Natural Resources Conservation Service. 2009. Hydric Soils of the United States. Accessed online February 1, 2010 at: http://soils.usda.gov/use/hydric/

[USDA, NRCS] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Official Soil Series Descriptions [Online WWW]. Accessed online February 1, 2010: http://soils.usda.gov/technical/classification/osd/index.html. USDA-NRCS, Lincoln, NE.

[USDA, NRCS] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Albany County, NY. Accessed online June 24, 2010 at: http://soildatamart.nrcs.usda.gov.

[USDA, NRCS] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Saratoga County, NY. Accessed online February 5, 2010 at: http://soildatamart.nrcs.usda.gov.

[USDA, NRCS] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Schenectady County, NY. Accessed online February 5, 2010 at: http://soildatamart.nrcs.usda.gov.

[USDA, NRCS] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Washington County, NY. Accessed online March 2, 2010 at: http://soildatamart.nrcs.usda.gov.

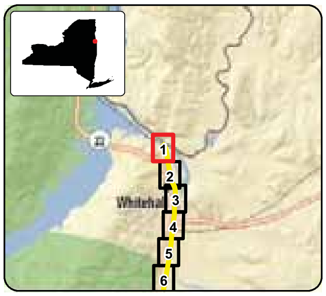
[USDA, NRCS] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Westchester County, NY. Accessed online March 2, 2010 at: http://soildatamart.nrcs.usda.gov.

[USDA, SCS] U.S. Department of Agricultural, Soil Conservation Service. 1975. Soil Survey of Washington County, New York. USDA, SCS, in cooperation with Cornell University Agricultural Experiment Station.

Williams, A.E. 1992. Memorandum: Clarification and Interpretation of the 1987 Manual. U.S. Army Corps of Engineers.

ATTACHMENT A

FIGURES



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

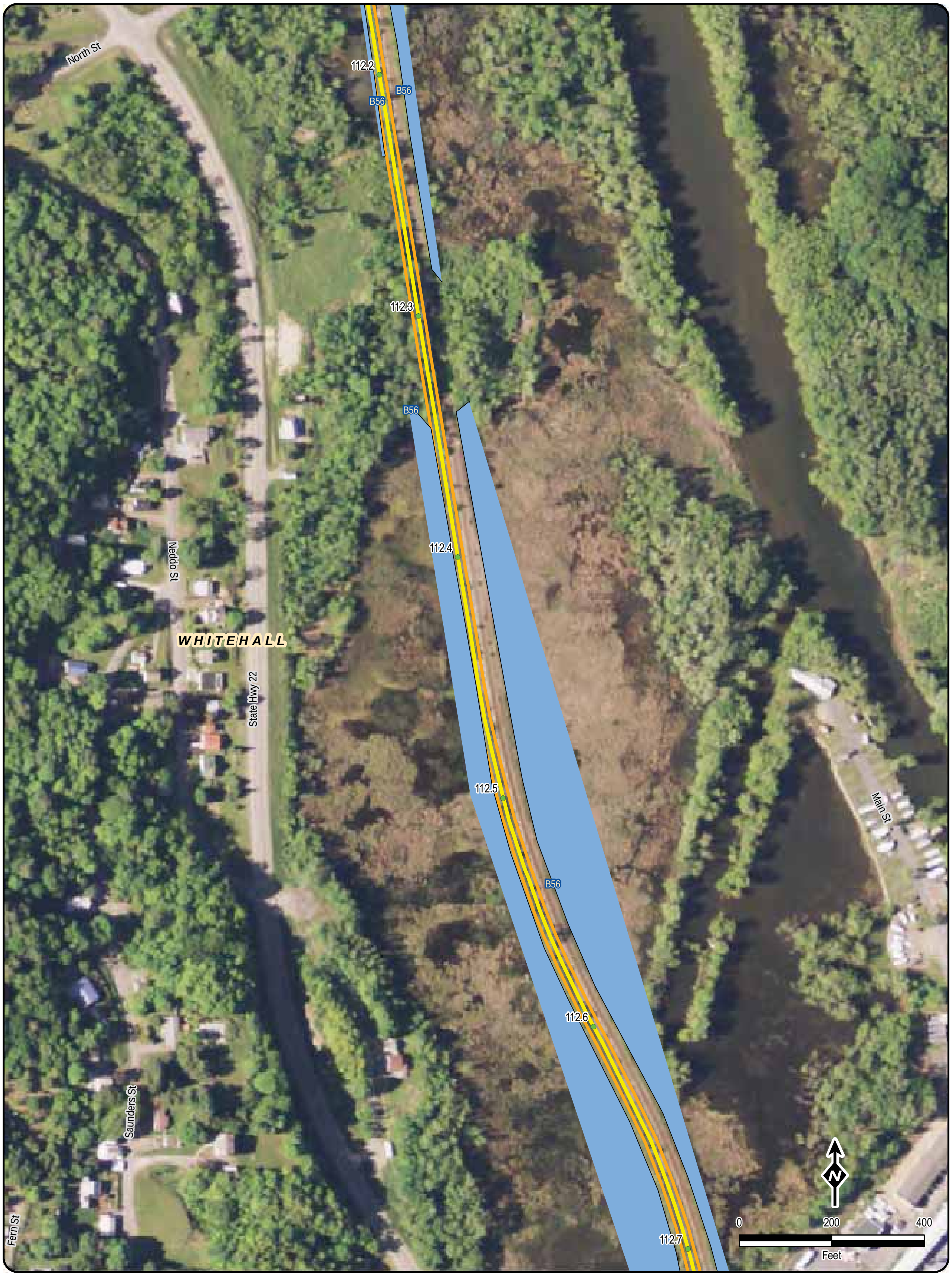
Figure A-1

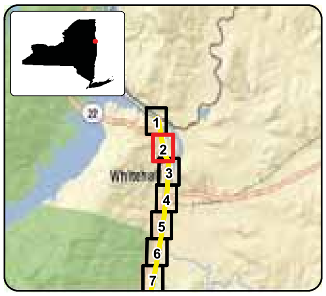
Wetland Delineation Mapping

Sheet 1 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
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- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- ▨ PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

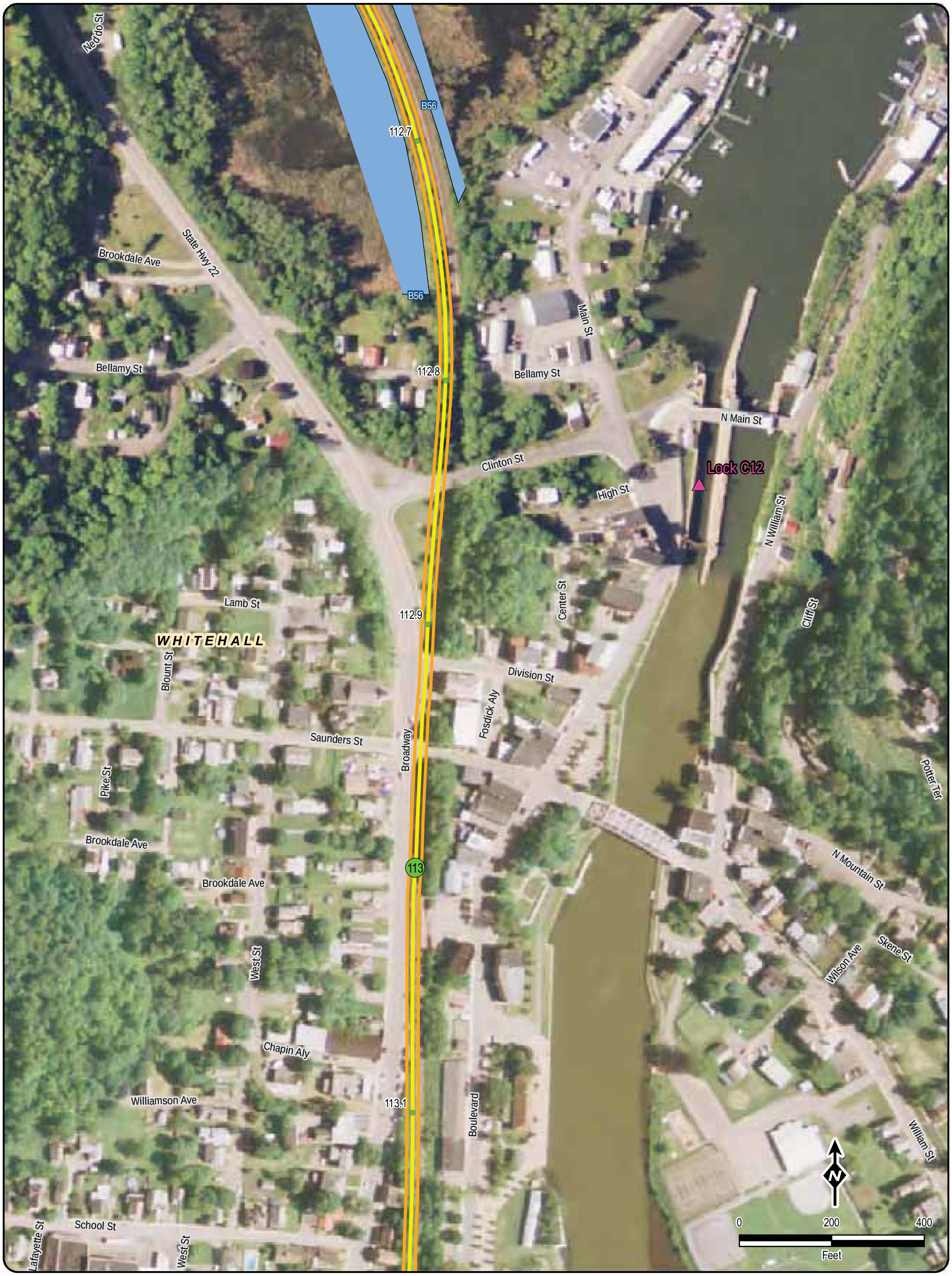
Figure A-1

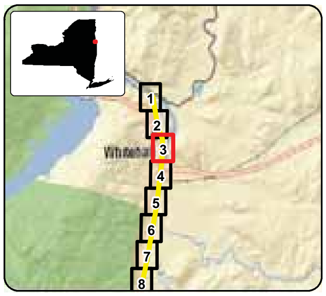
Wetland Delineation Mapping

Sheet 2 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ ‐ Intermittent Stream
- ‐ ‐ Ditch
- **WETLAND ID**
- *STREAM ID*
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

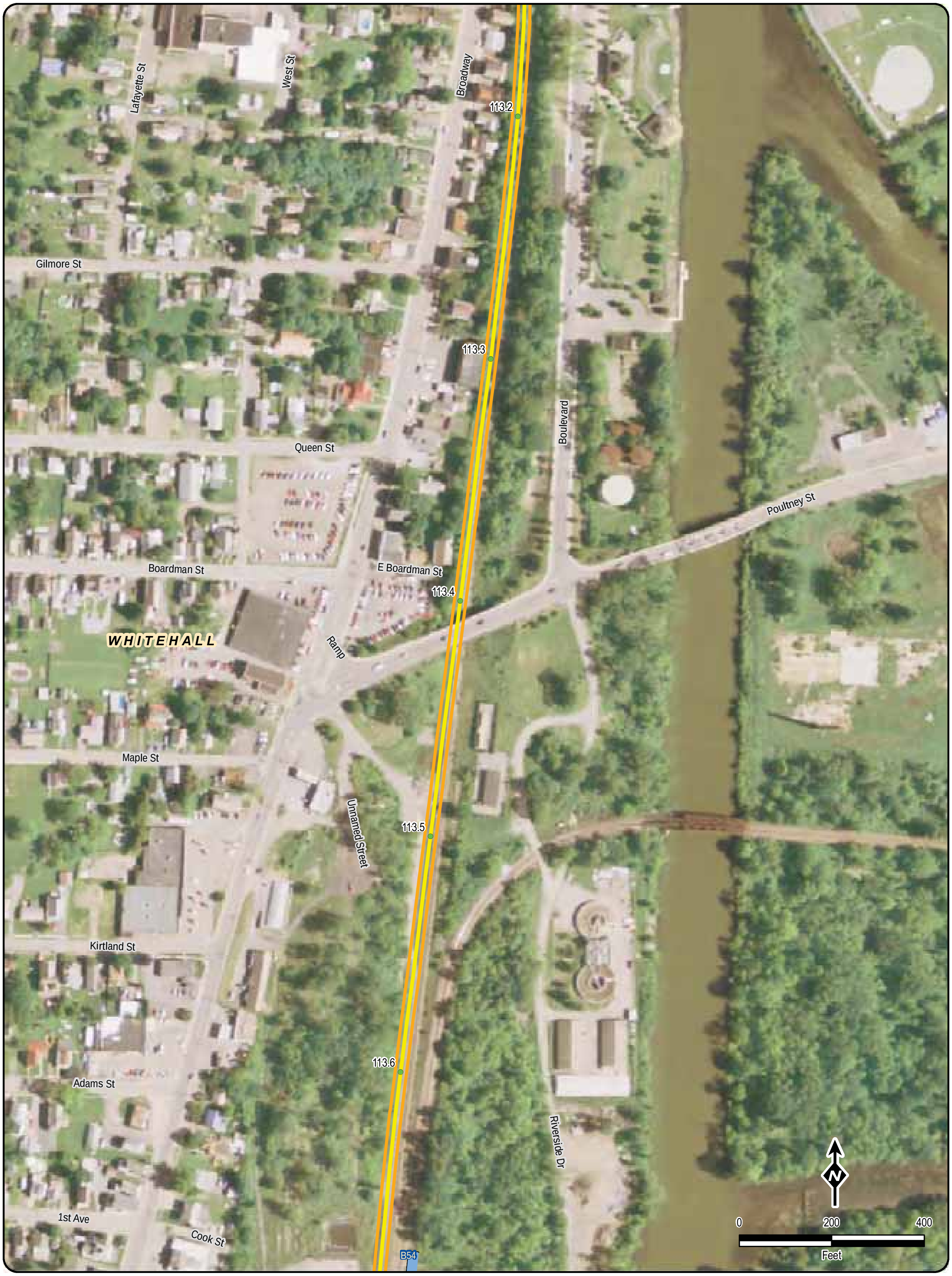
Figure A-1

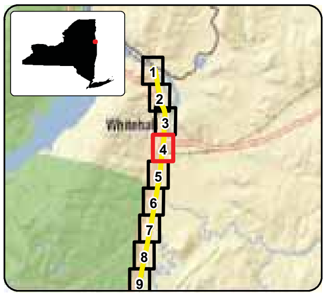
Wetland Delineation Mapping

Sheet 3 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

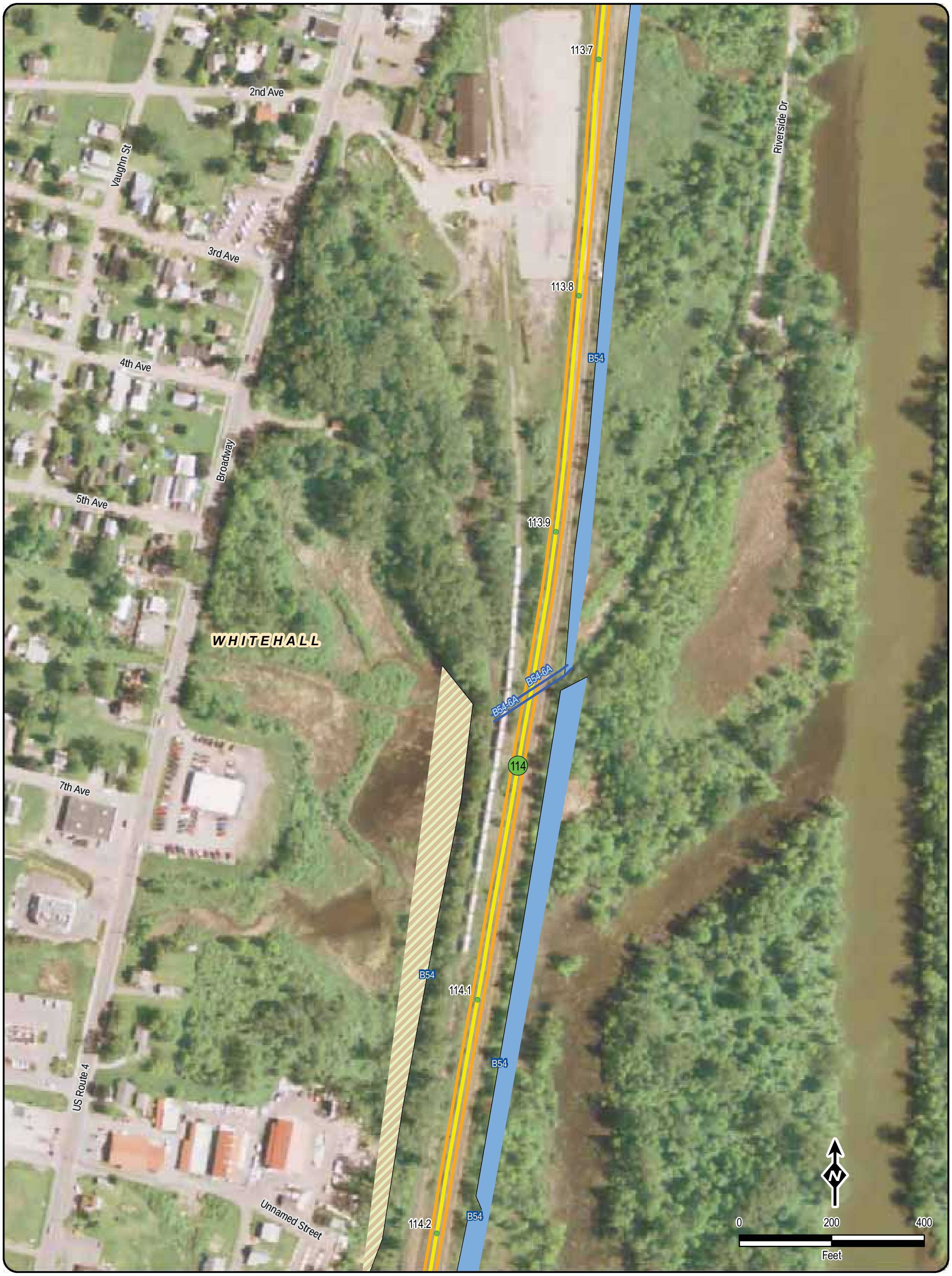
Figure A-1

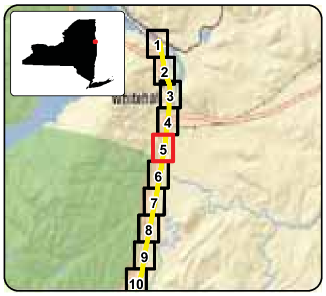
Wetland Delineation Mapping

Sheet 4 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

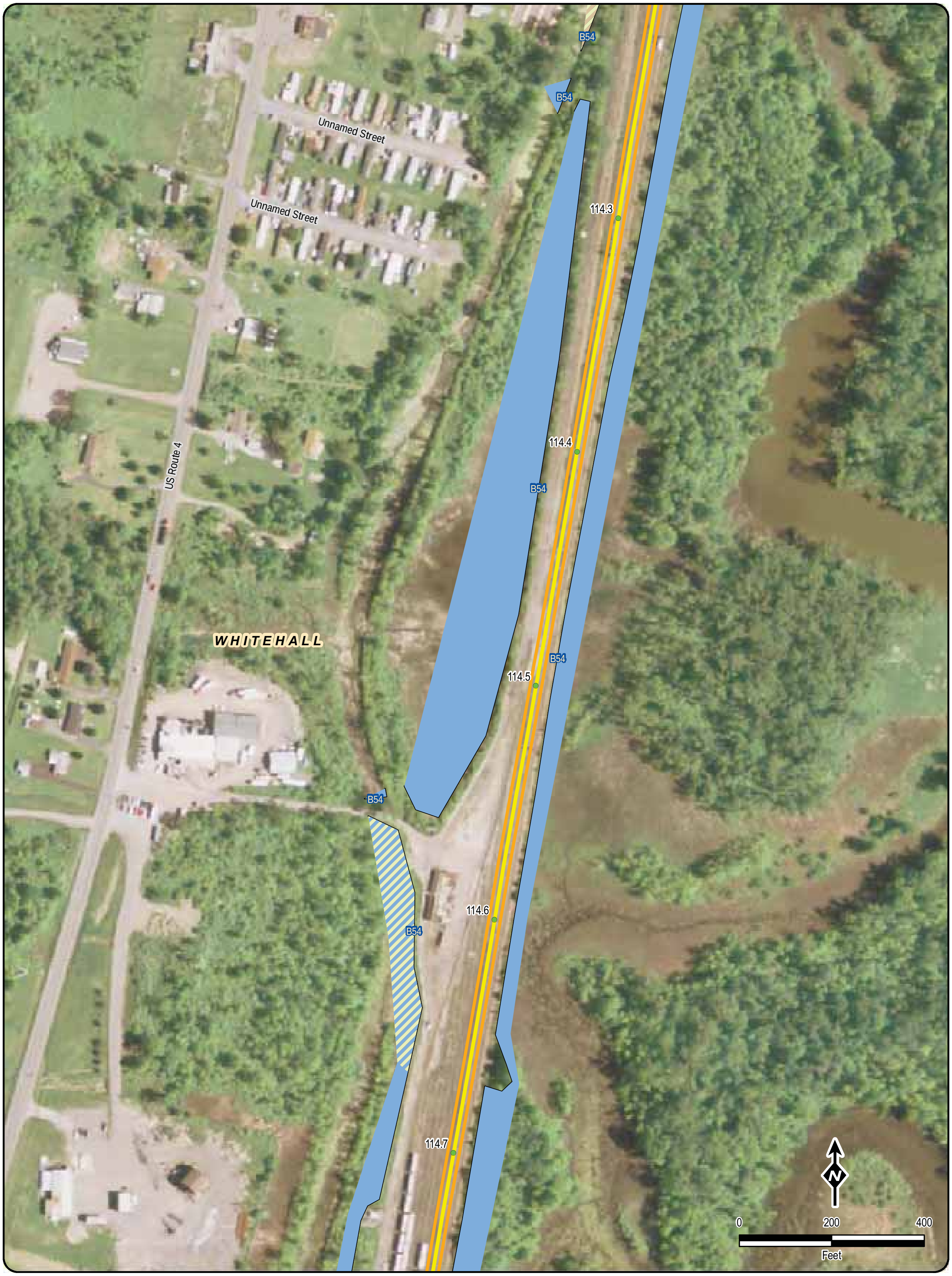
Figure A-1

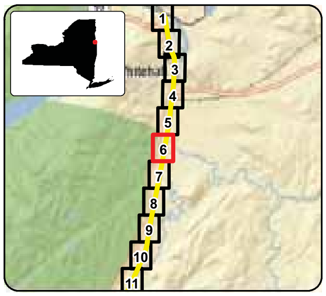
Wetland Delineation Mapping

Sheet 5 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

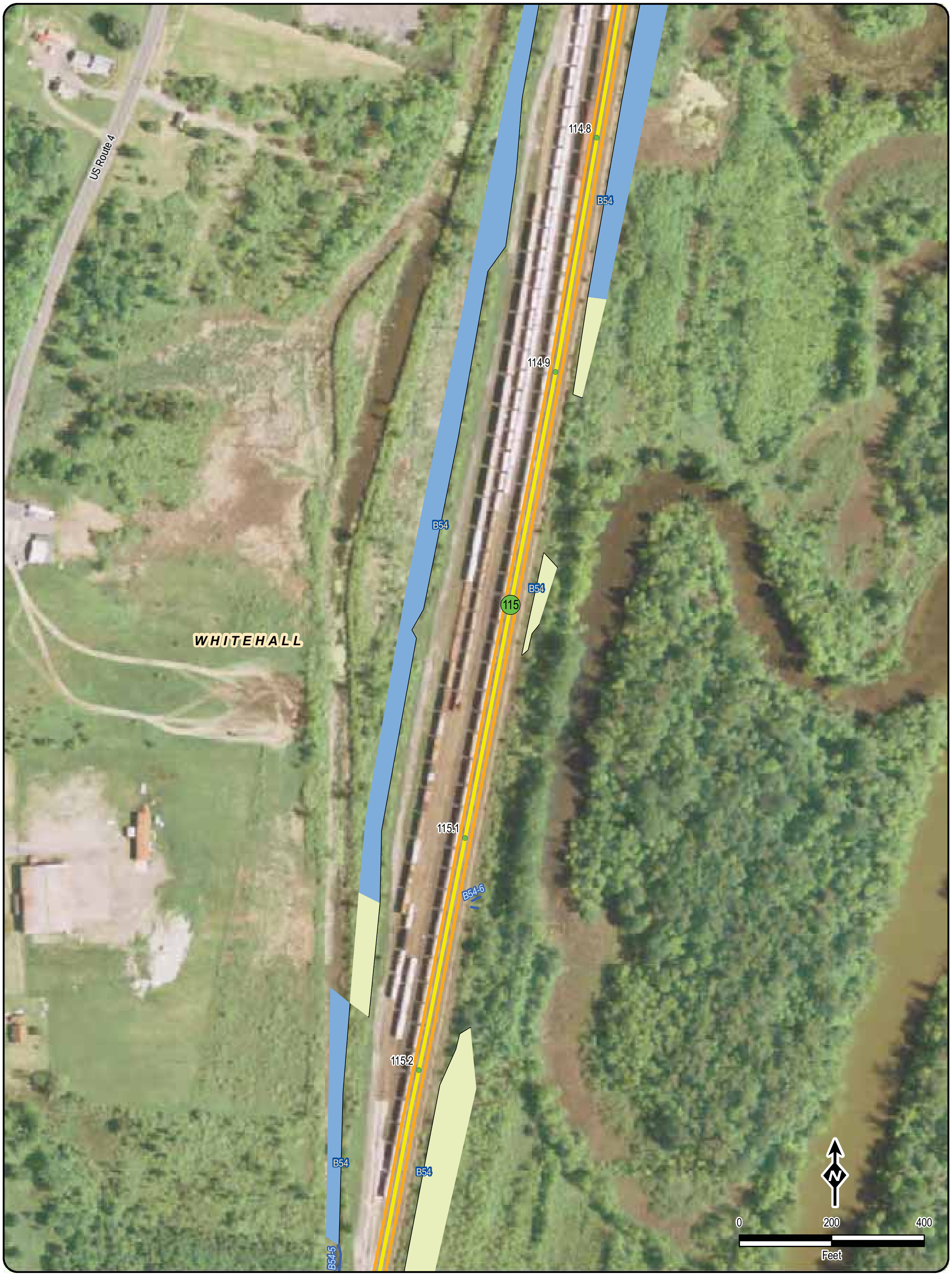
Figure A-1

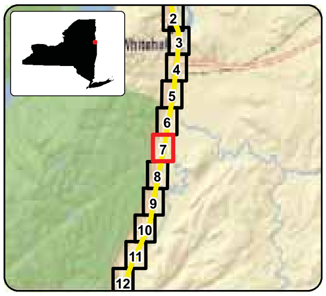
Wetland Delineation Mapping

Sheet 6 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- – – Ditch
- **WETLAND ID**
- *STREAM ID*
- **TOWN NAME**
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

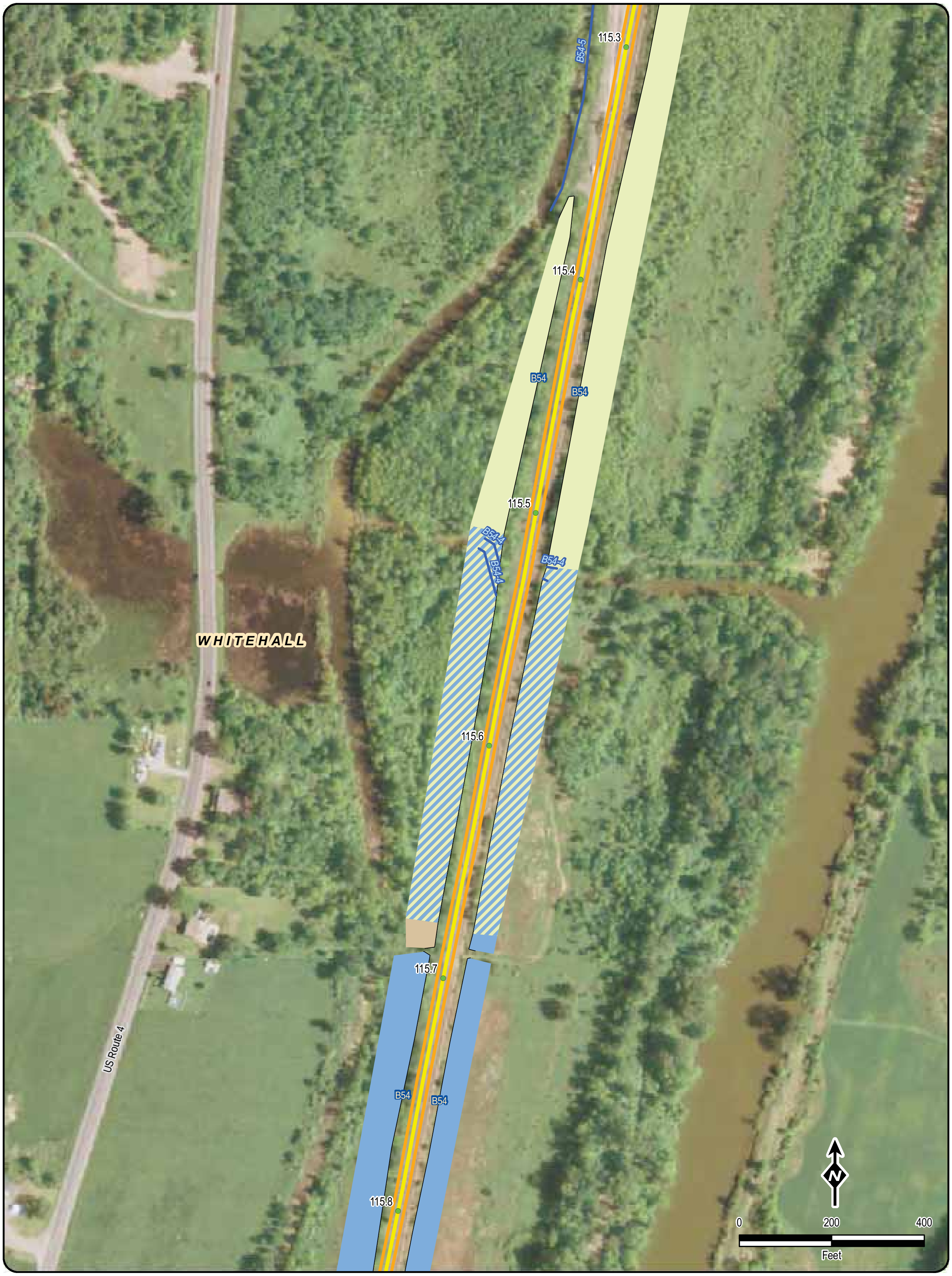
Figure A-1

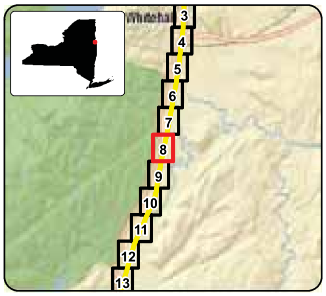
Wetland Delineation Mapping

Sheet 7 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
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- 🟩 POW Wetland
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- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

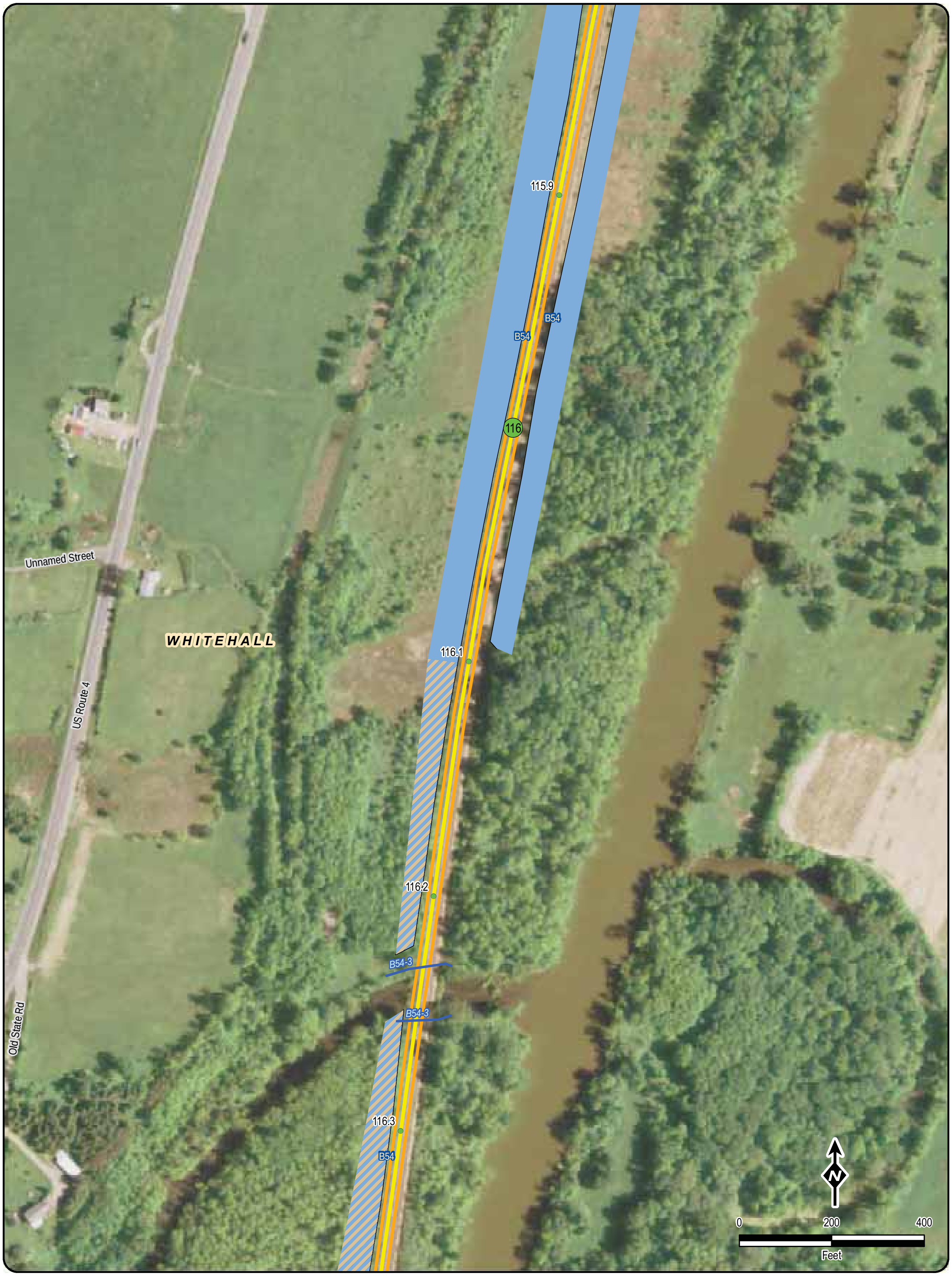
Figure A-1

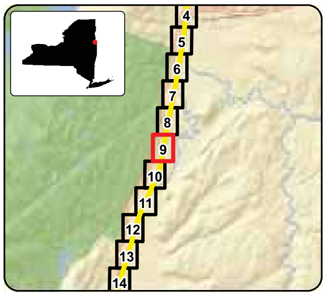
Wetland Delineation Mapping

Sheet 8 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

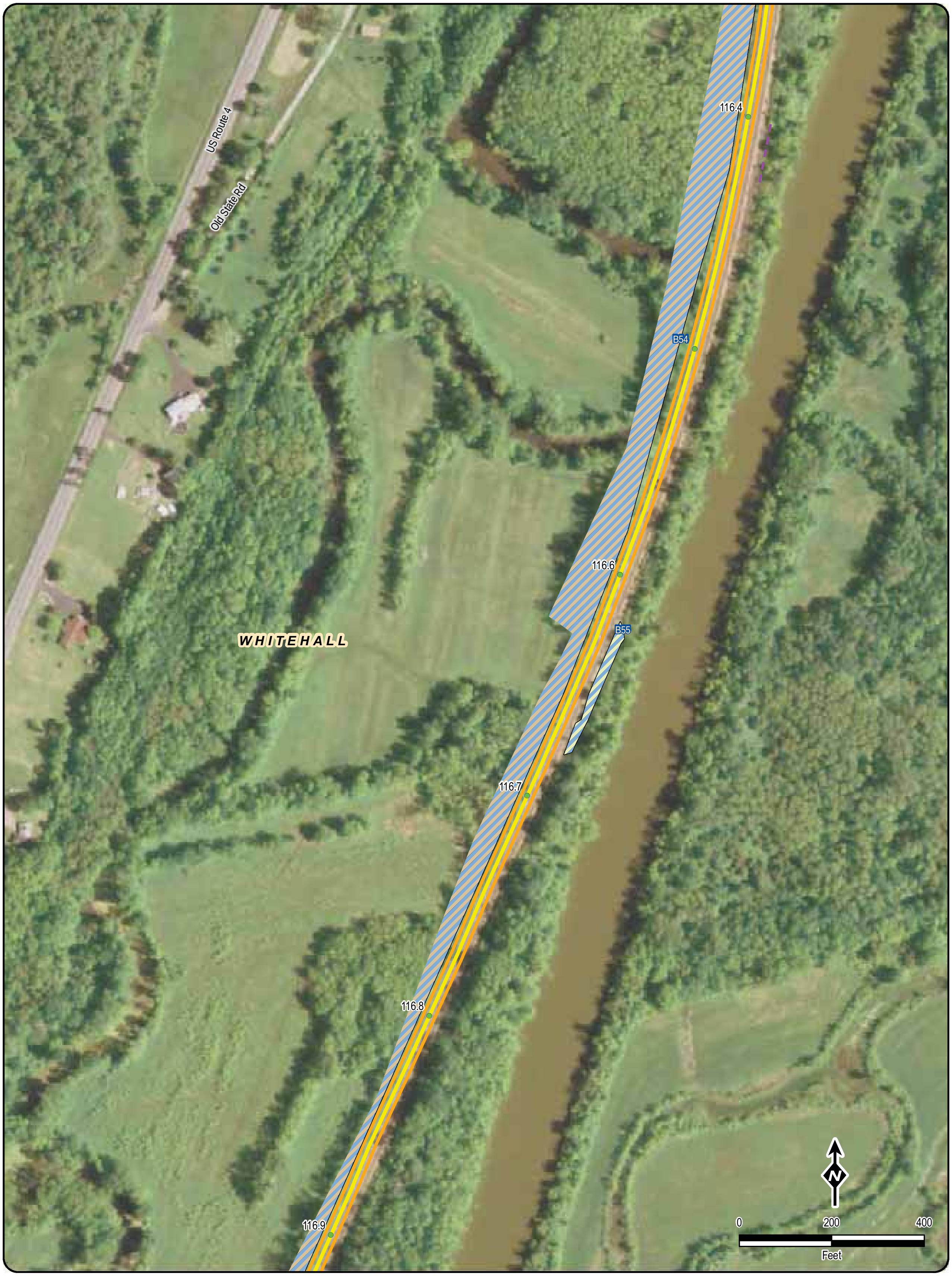
Figure A-1

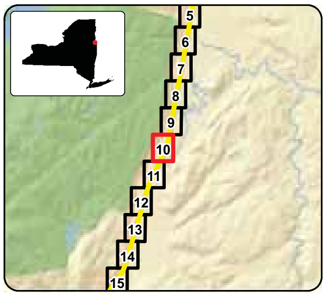
Wetland Delineation Mapping

Sheet 9 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

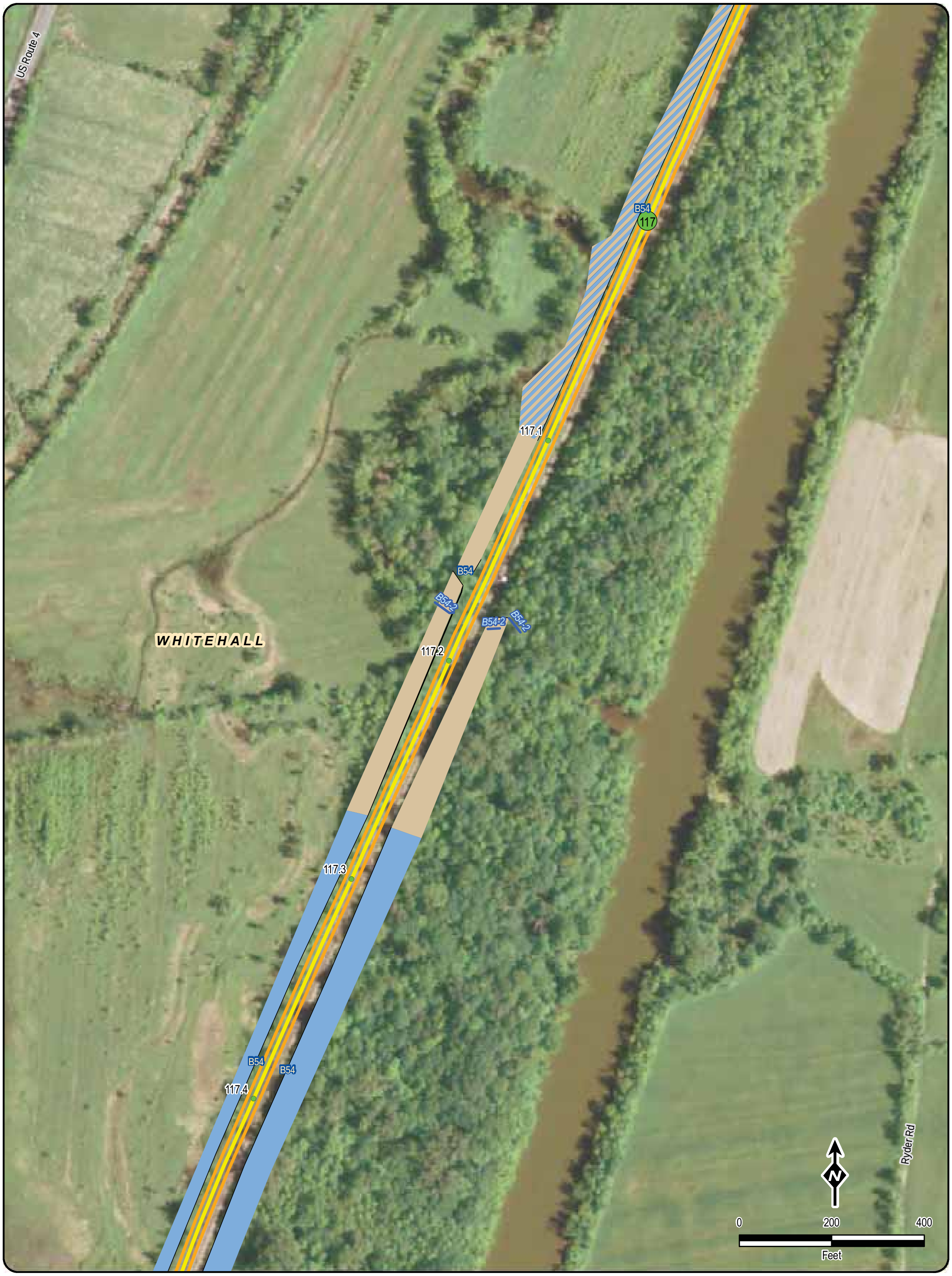
Figure A-1

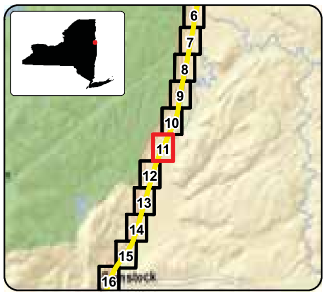
Wetland Delineation Mapping

Sheet 10 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

● Milepost
▲ Canal Lock
— Proposed CHPEI Route
▭ Construction Corridor
— Wetland Delineation Line
— Perennial Stream Top of Bank
-·- Intermittent Stream
-- Ditch
WETLAND ID
STREAM ID
TOWN NAME

▇ PEM Wetland
▇ PFO Wetlnad
▇ PSS Wetland
▇ POW Wetland
▨ PFO/PEM Wetland
▨ PFO/PSS Wetland
▨ PEM/PSS Wetland
▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

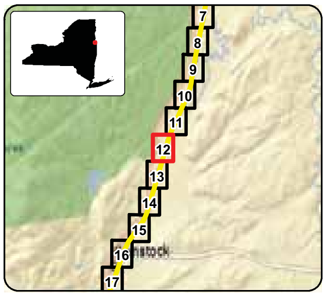
Figure A-1

Wetland Delineation Mapping

Sheet 11 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‑ · ‑ Intermittent Stream
- ‑ ‑ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
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- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
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- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

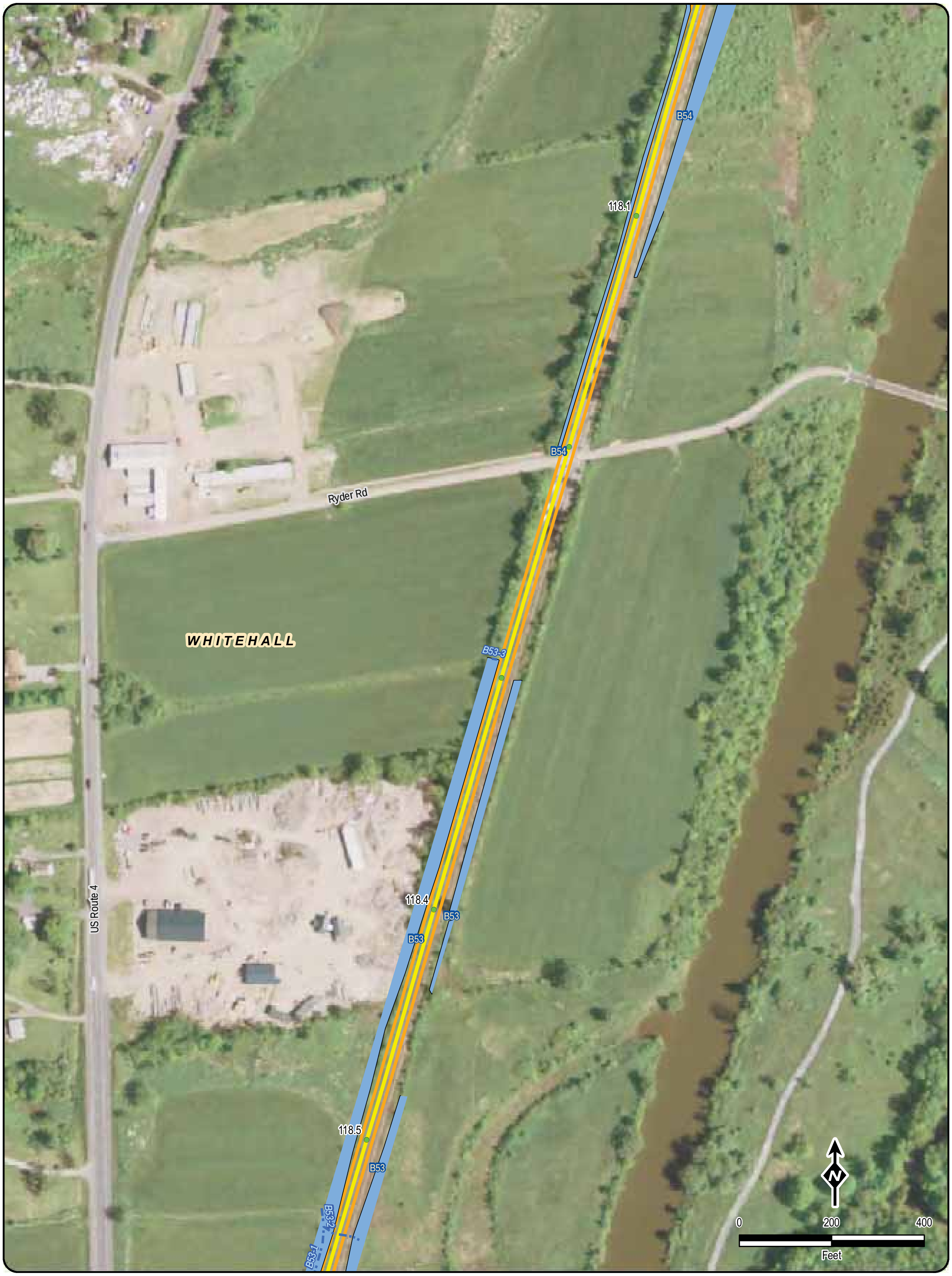
Figure A-1

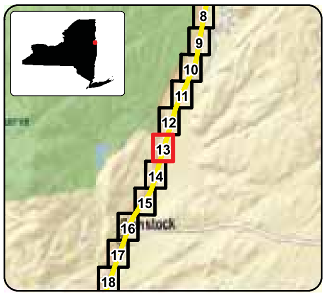
Wetland Delineation Mapping

Sheet 12 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ▇ PEM Wetland
- ▇ PFO Wetlnad
- ▇ PSS Wetland
- ▇ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

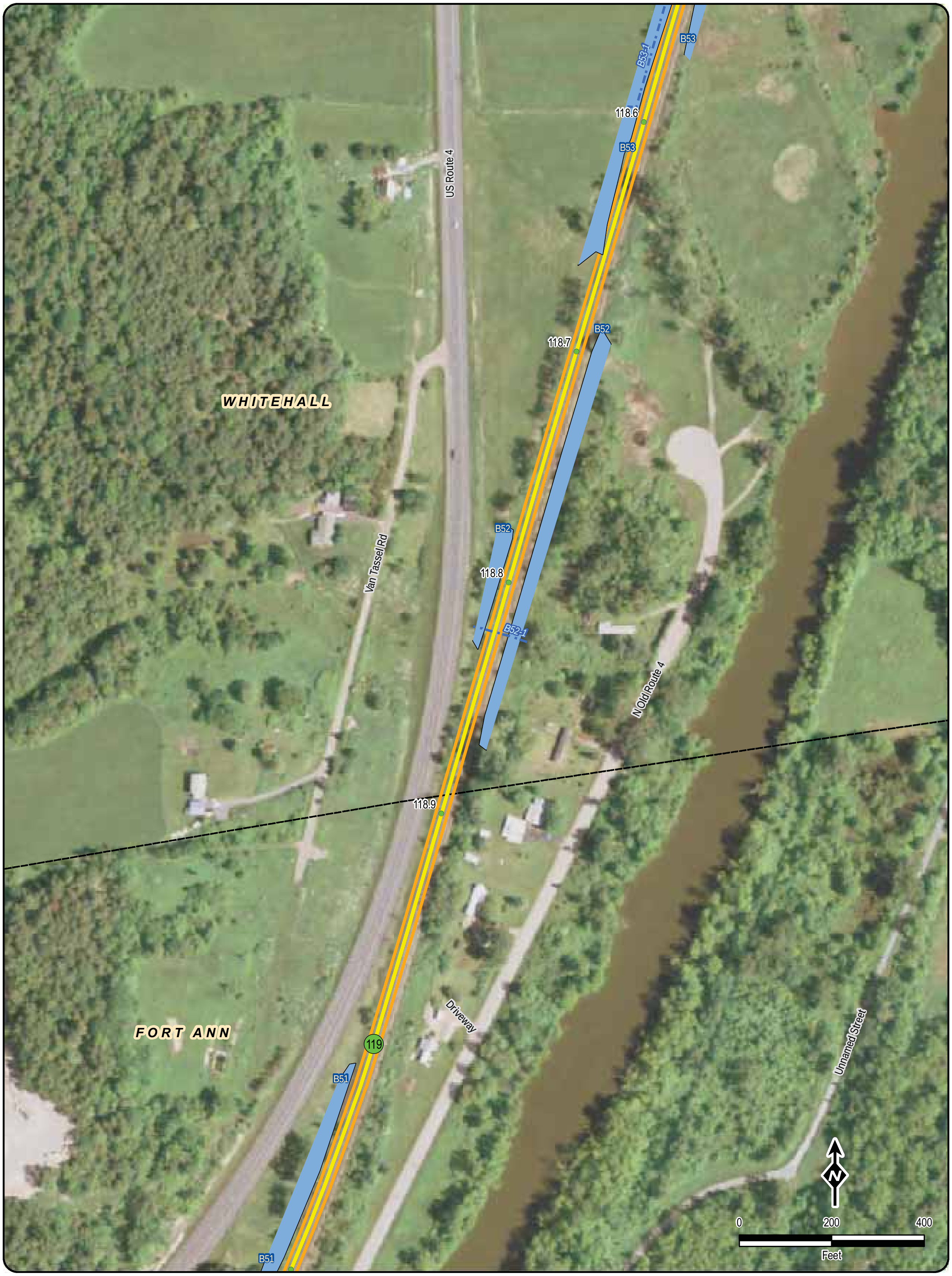
Figure A-1

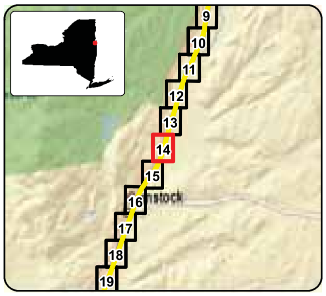
Wetland Delineation Mapping

Sheet 13 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- 🟦 PEM Wetland
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- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

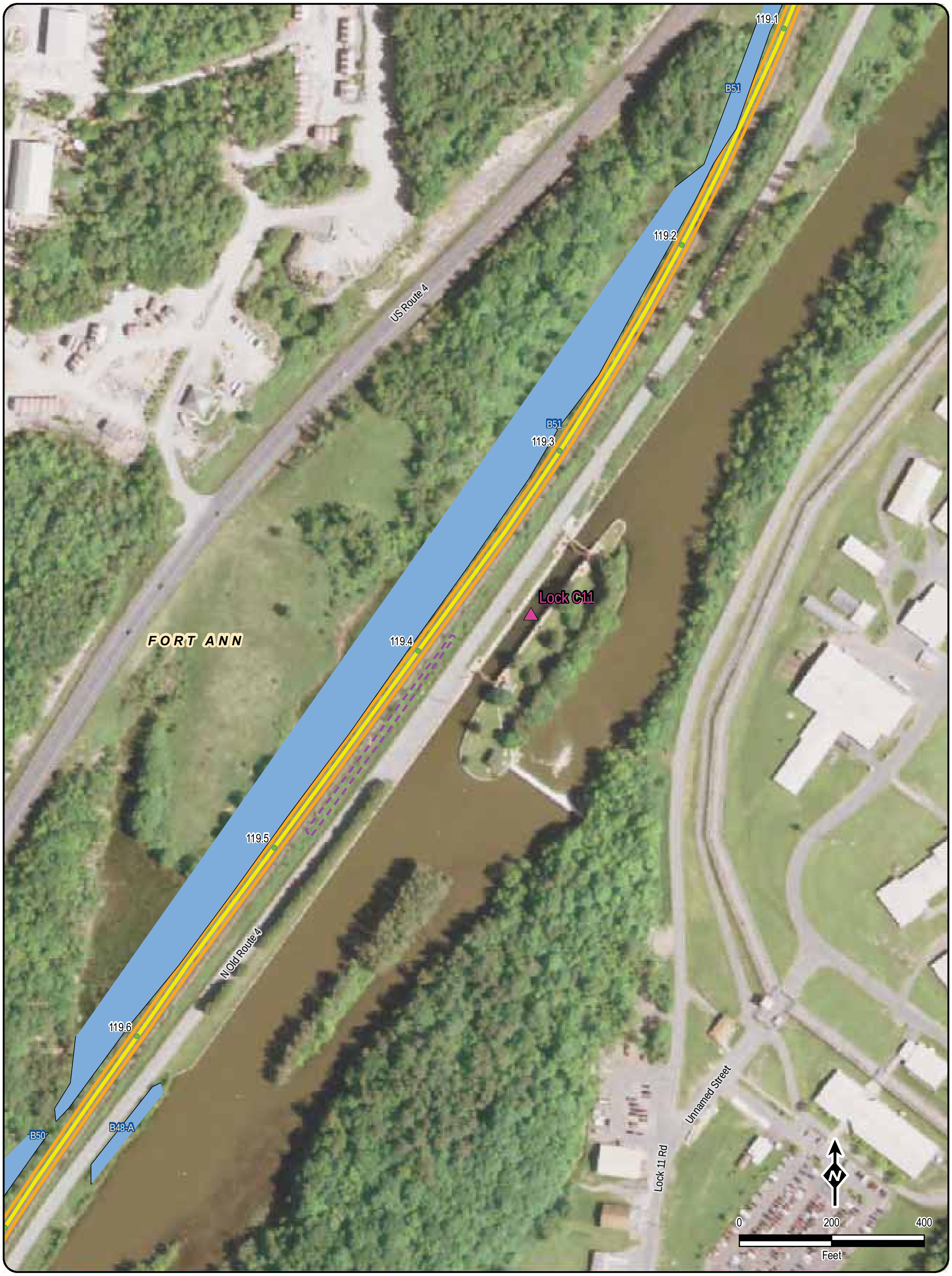
Figure A-1

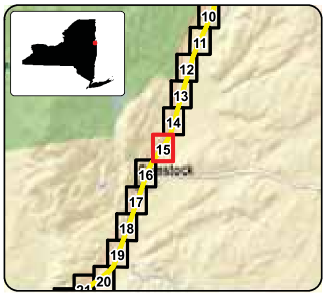
Wetland Delineation Mapping

Sheet 14 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
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- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

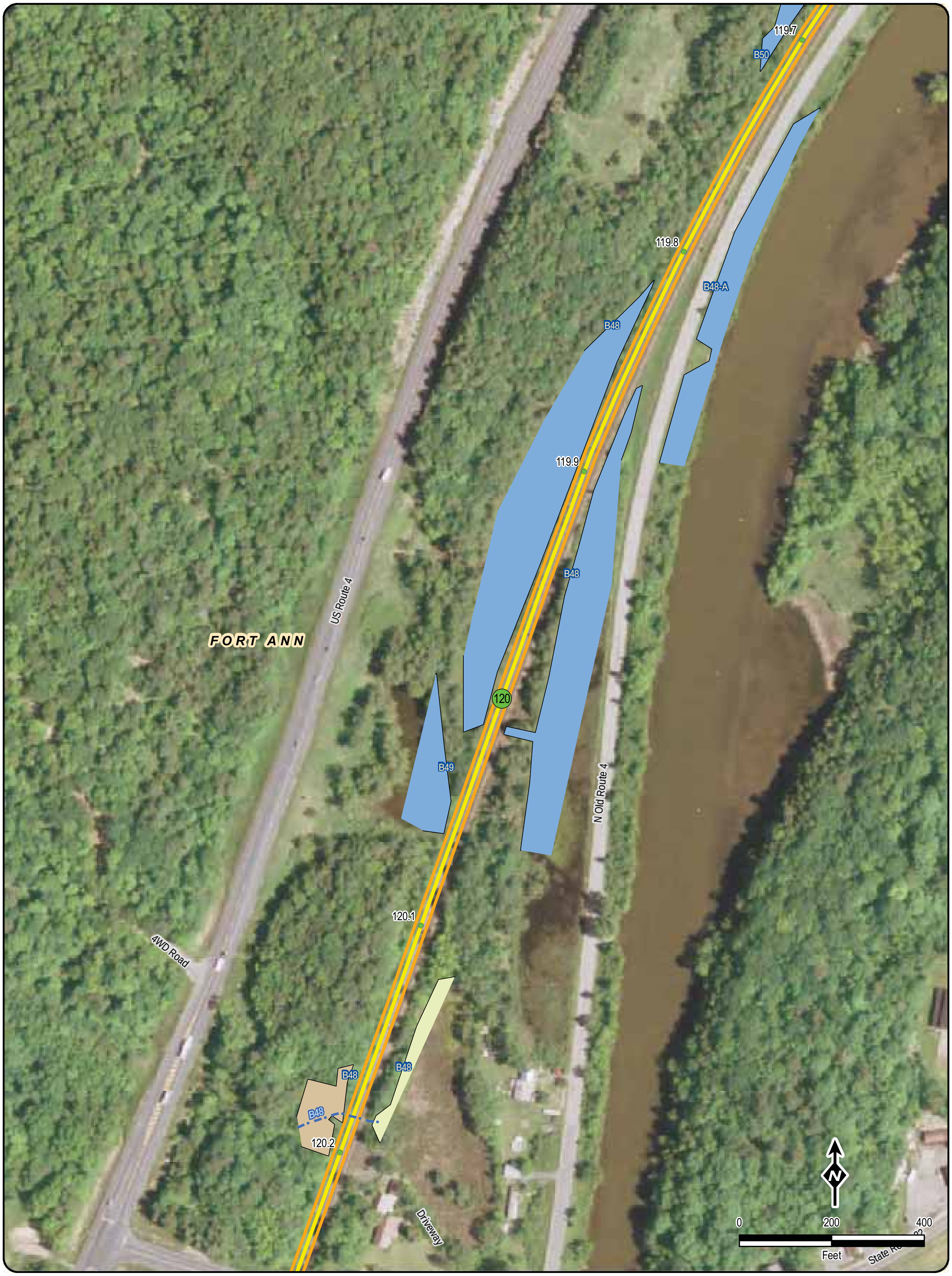
Figure A-1

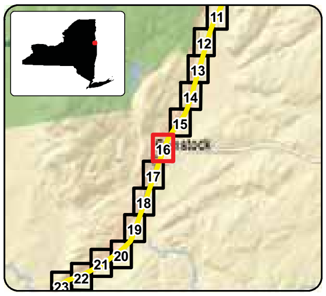
Wetland Delineation Mapping

Sheet 15 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

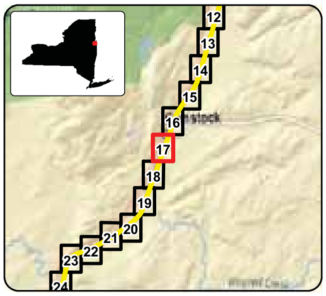
Figure A-1

Wetland Delineation Mapping

Sheet 16 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

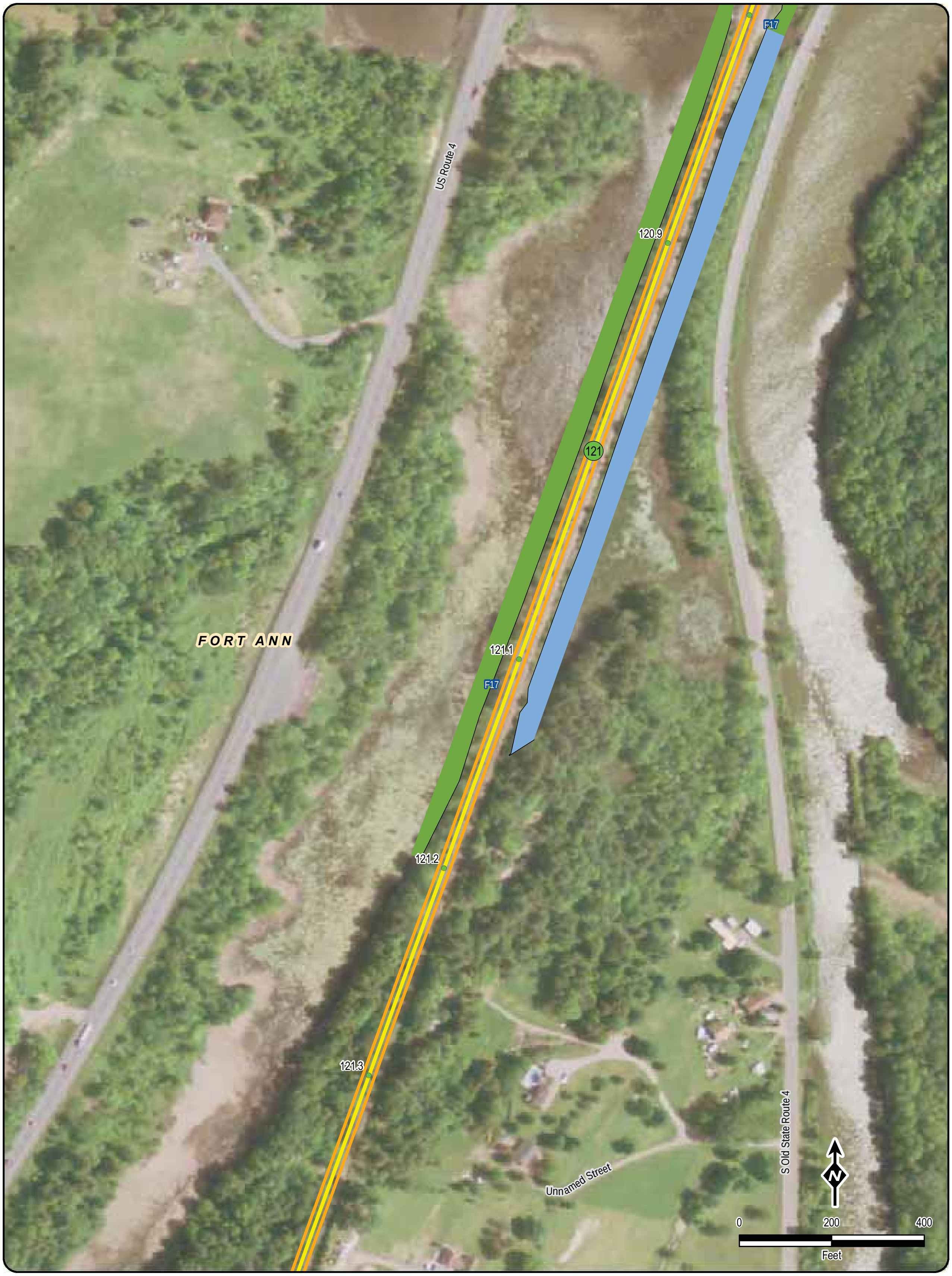
Figure A-1

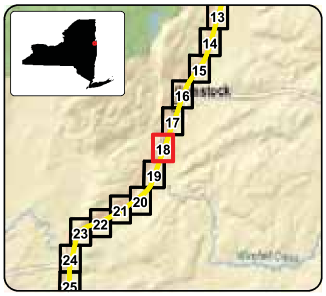
Wetland Delineation Mapping

Sheet 17 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- ☐ Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

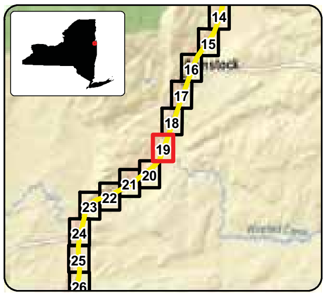
Figure A-1

Wetland Delineation Mapping

Sheet 18 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

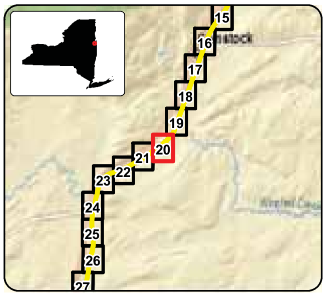
Figure A-1

Wetland Delineation Mapping

Sheet 19 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- – – Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

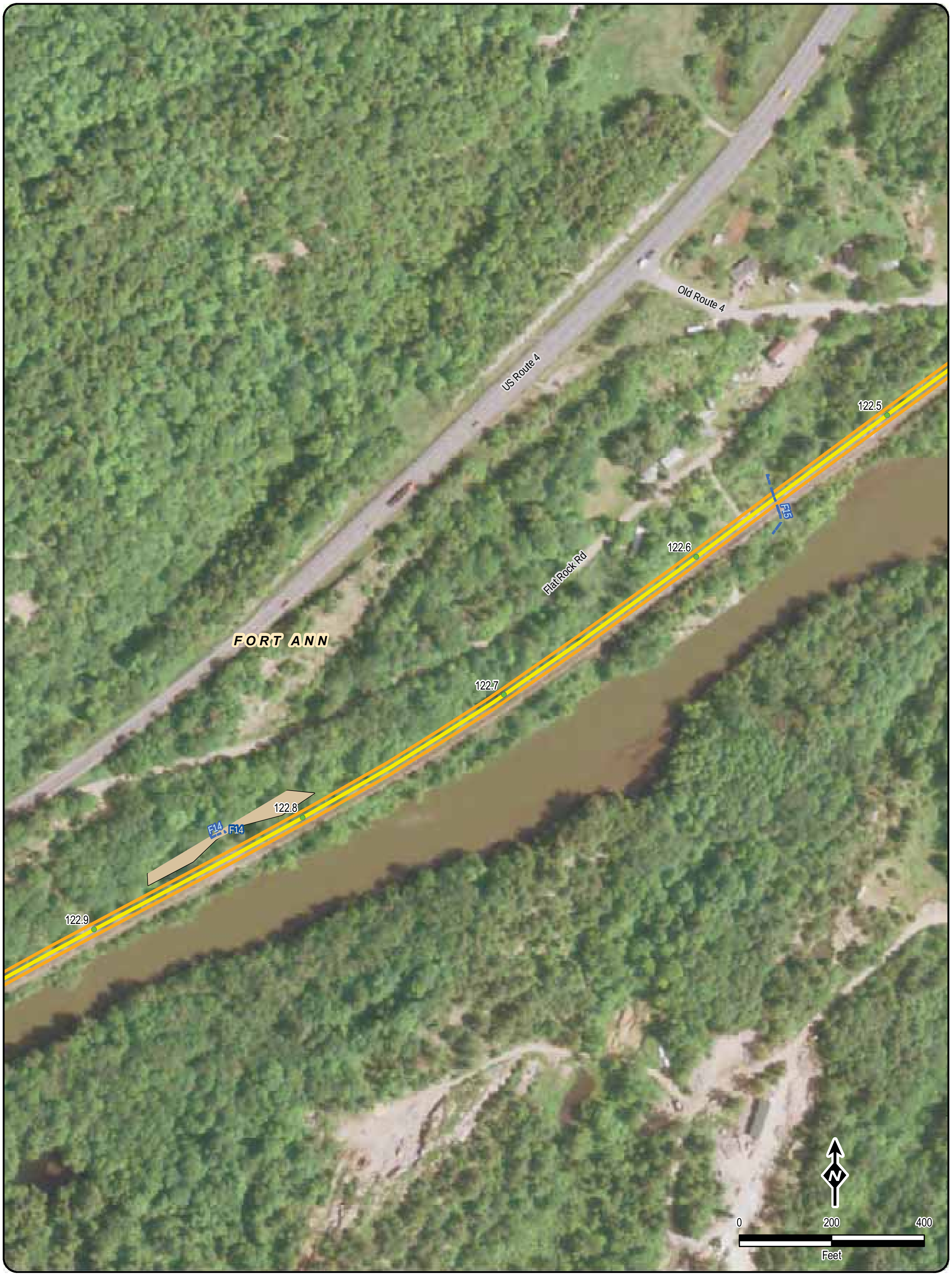
Figure A-1

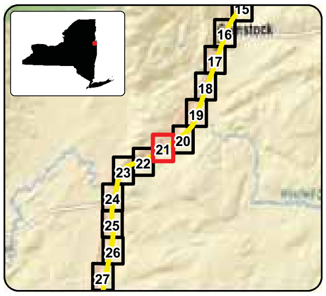
Wetland Delineation Mapping

Sheet 20 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

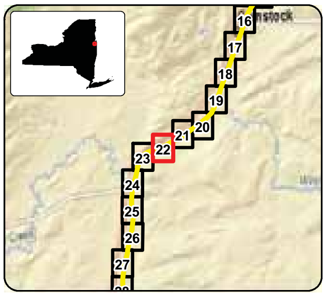
Figure A-1

Wetland Delineation Mapping

Sheet 21 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

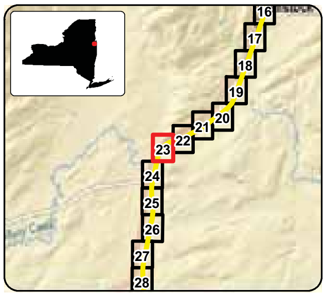
Figure A-1

Wetland Delineation Mapping

Sheet 22 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‑ · ‑ Intermittent Stream
- ‑ ‑ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

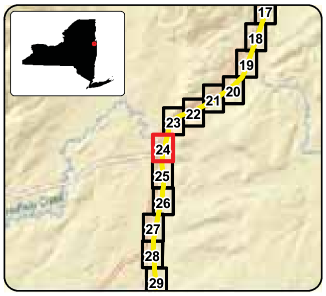
Figure A-1

Wetland Delineation Mapping

Sheet 23 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

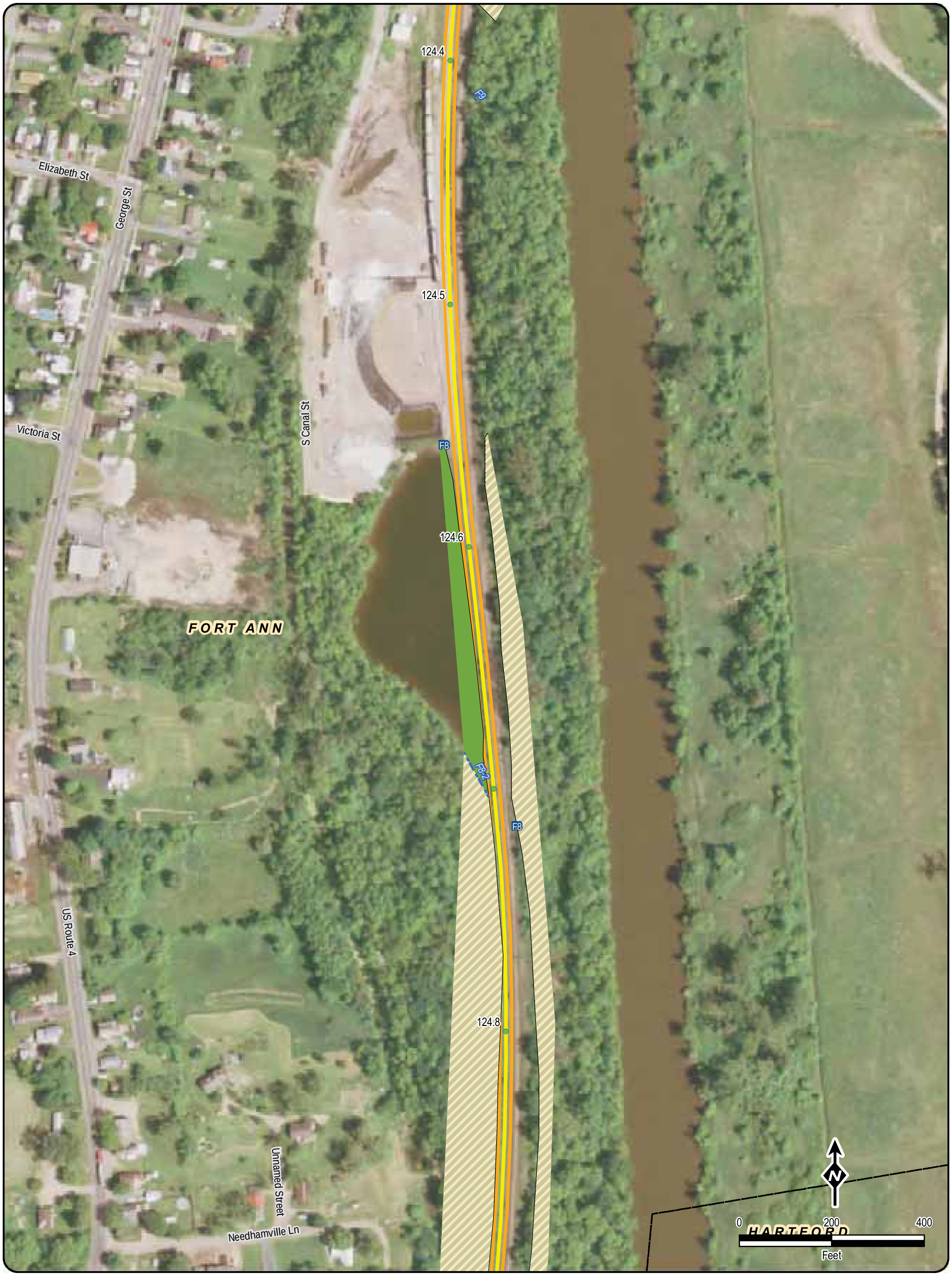
Figure A-1

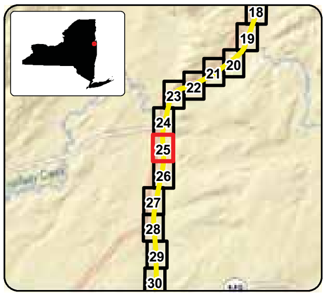
Wetland Delineation Mapping

Sheet 24 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

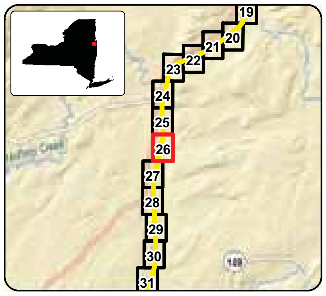
Figure A-1

Wetland Delineation Mapping

Sheet 25 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

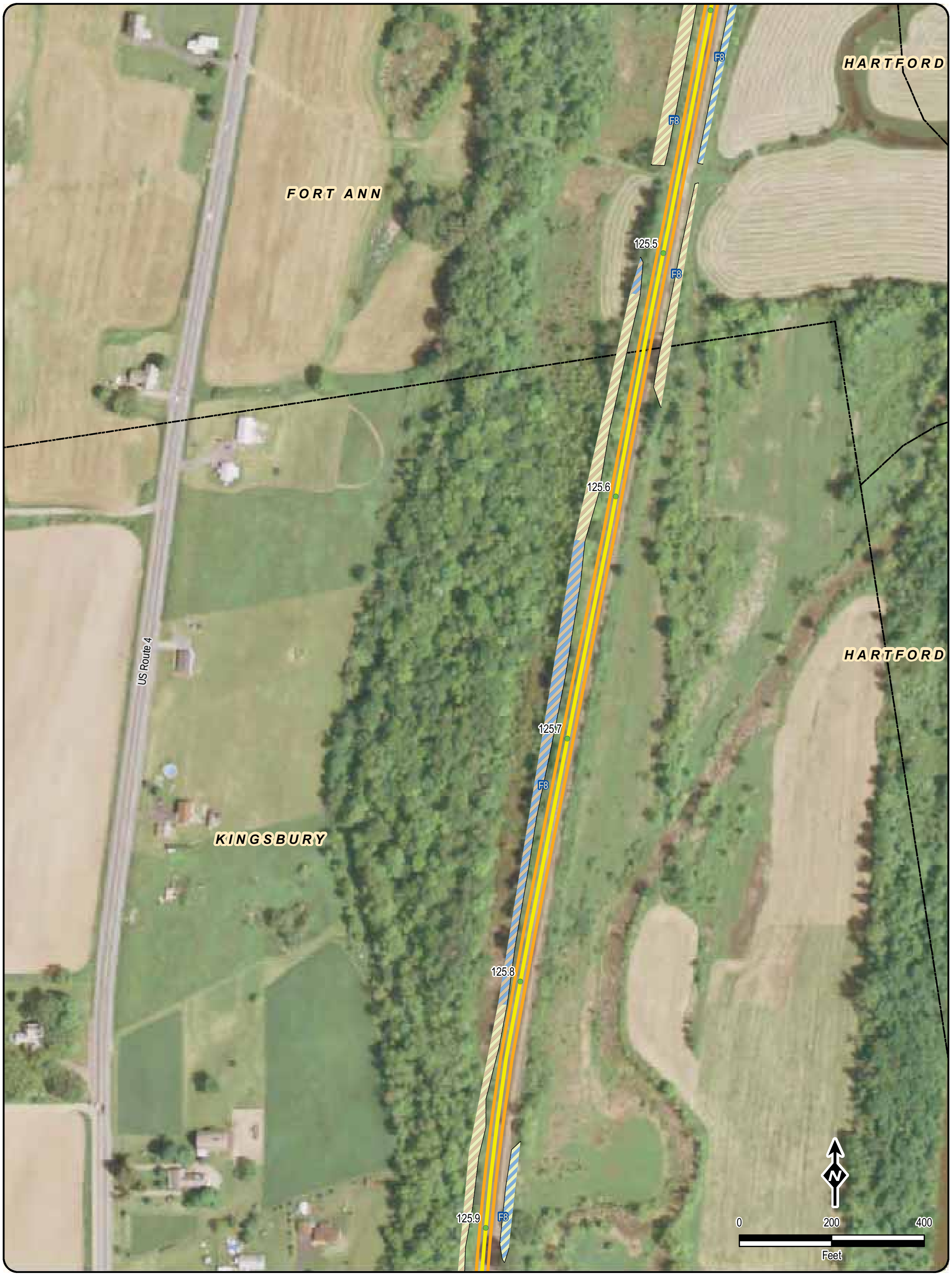
Figure A-1

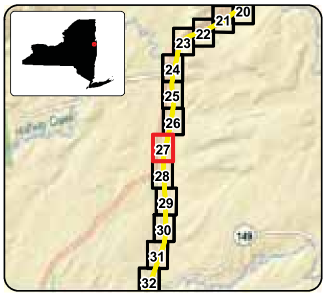
Wetland Delineation Mapping

Sheet 26 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

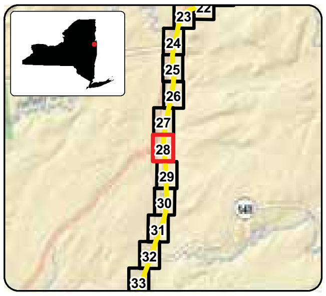
Figure A-1

Wetland Delineation Mapping

Sheet 27 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
━	Proposed CHPEI Route
▭	Construction Corridor
─	Wetland Delineation Line
━	Perennial Stream Top of Bank
─ · ─	Intermittent Stream
─ ─	Ditch
	WETLAND ID
	STREAM ID
	TOWN NAME
■	PEM Wetland
■	PFO Wetlnad
■	PSS Wetland
■	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
▨	POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

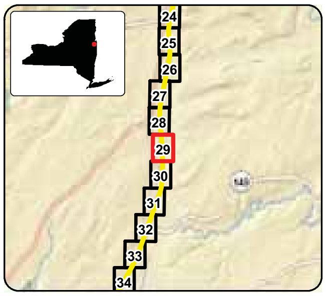
Figure A-1

Wetland Delineation Mapping

Sheet 28 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

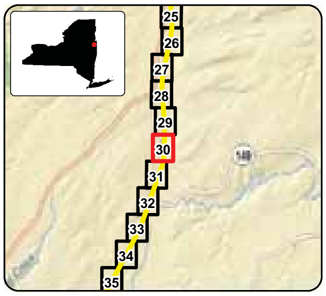
Figure A-1

Wetland Delineation Mapping

Sheet 29 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ─ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

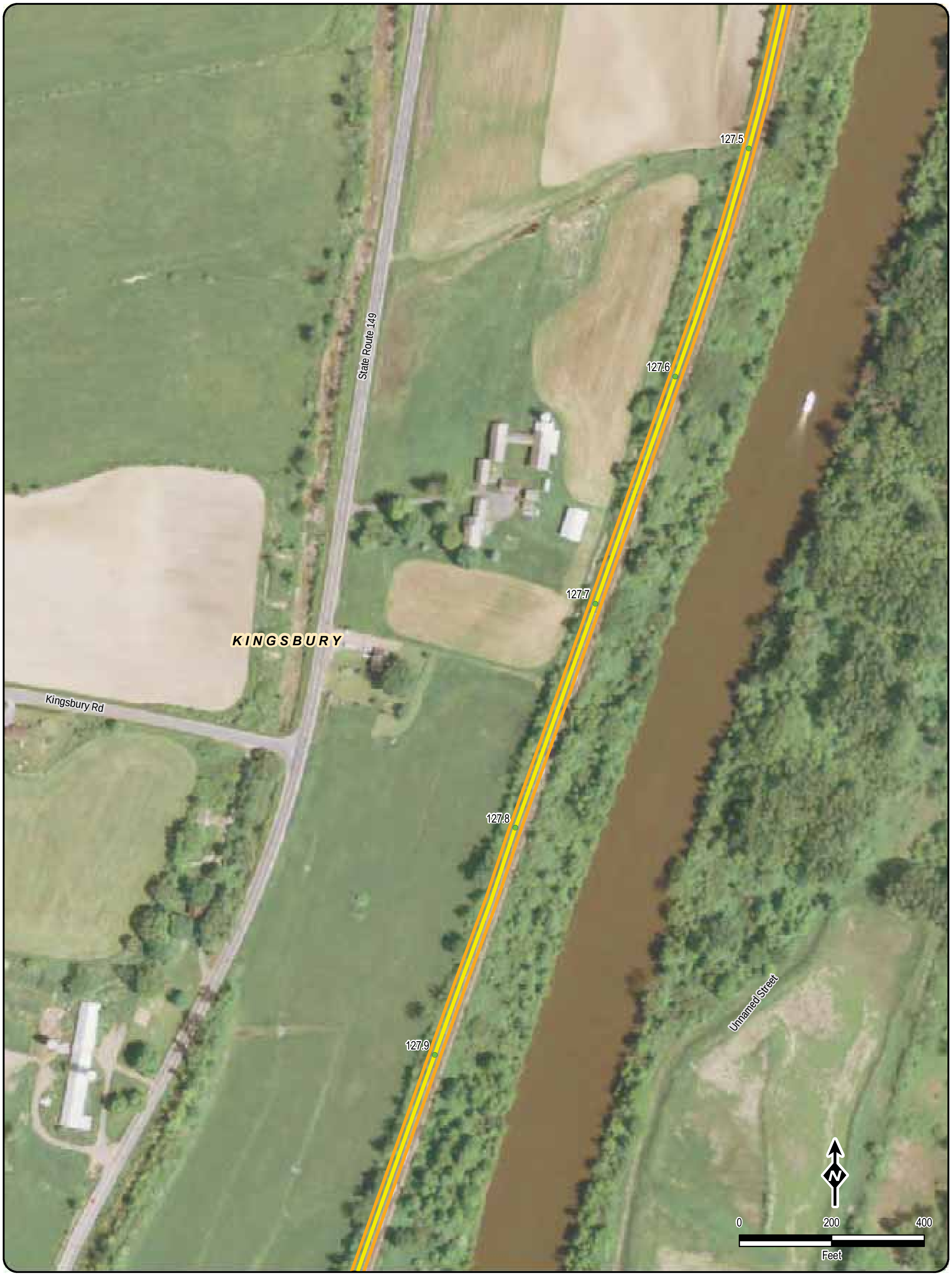
Figure A-1

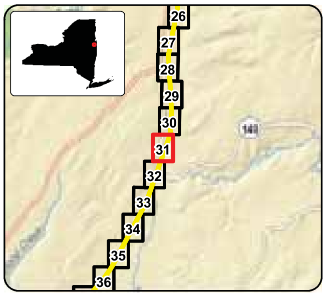
Wetland Delineation Mapping

Sheet 30 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

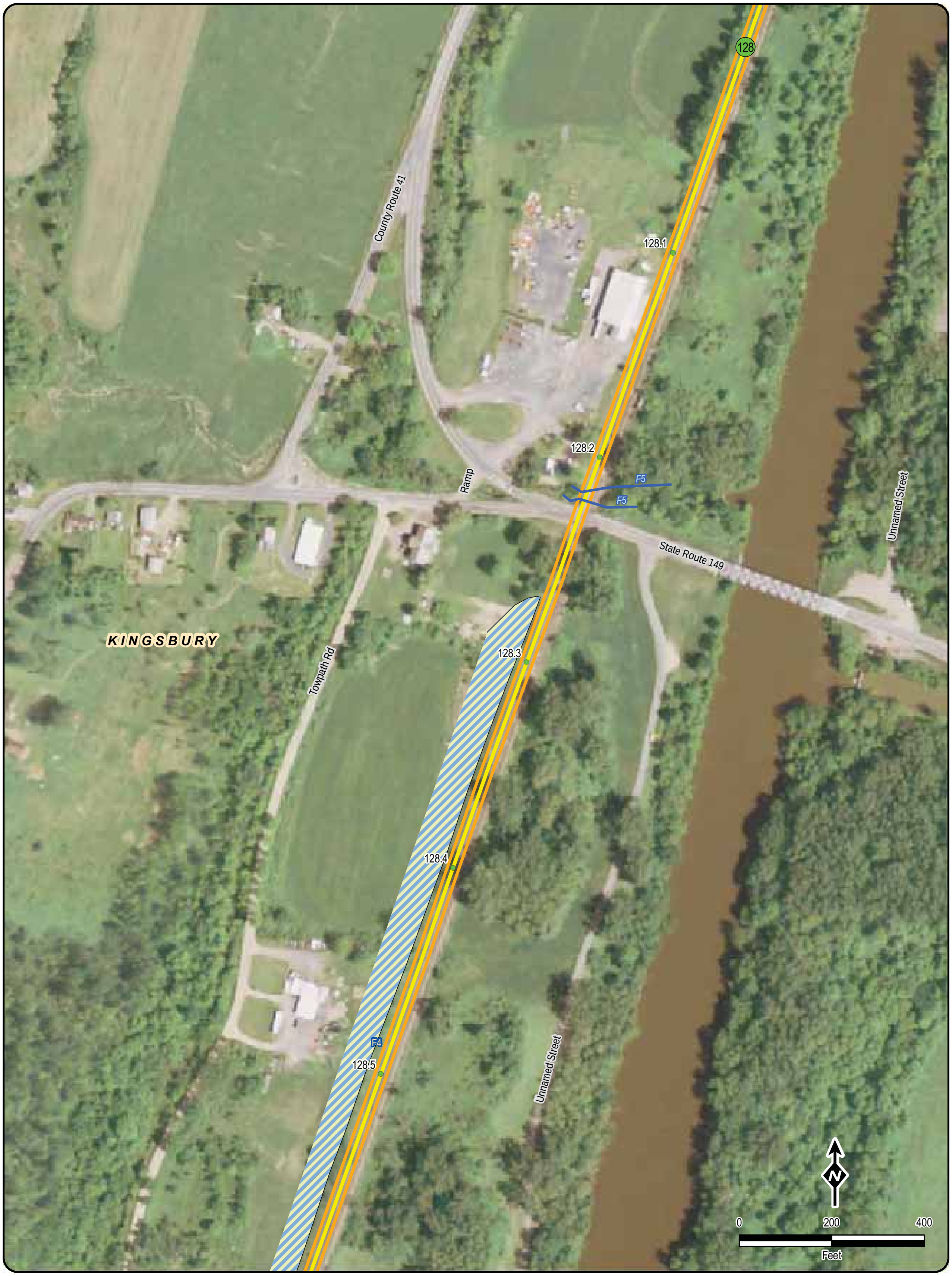
Figure A-1

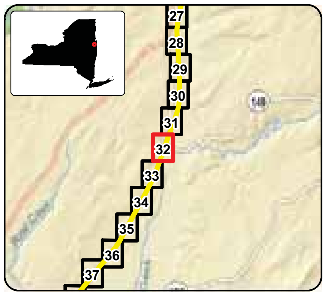
Wetland Delineation Mapping

Sheet 31 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

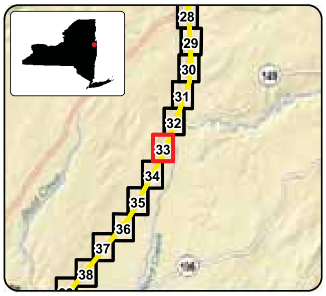
Figure A-1

Wetland Delineation Mapping

Sheet 32 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
—	Proposed CHPEI Route
▭	Construction Corridor
—	Wetland Delineation Line
—	Perennial Stream Top of Bank
- · -	Intermittent Stream
- -	Ditch
WETLAND ID	
STREAM ID	
TOWN NAME	

🟦	PEM Wetland
🟫	PFO Wetlnad
▭	PSS Wetland
🟩	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
▨	POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

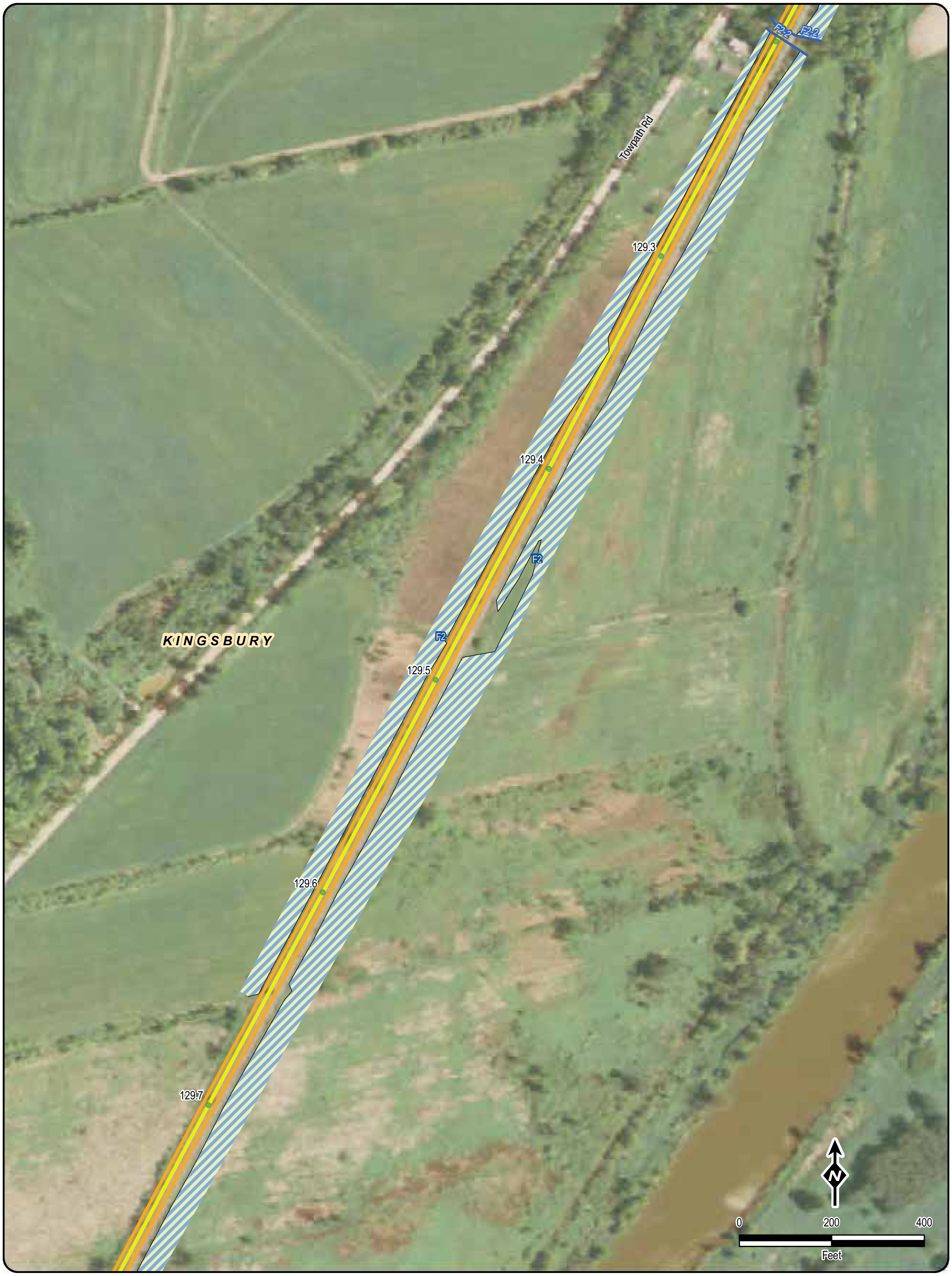
Figure A-1

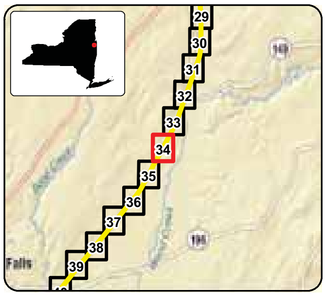
Wetland Delineation Mapping

Sheet 33 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- ▭ Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- *STREAM ID*
- *TOWN NAME*
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

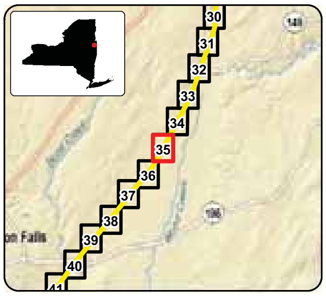
Figure A-1

Wetland Delineation Mapping

Sheet 34 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

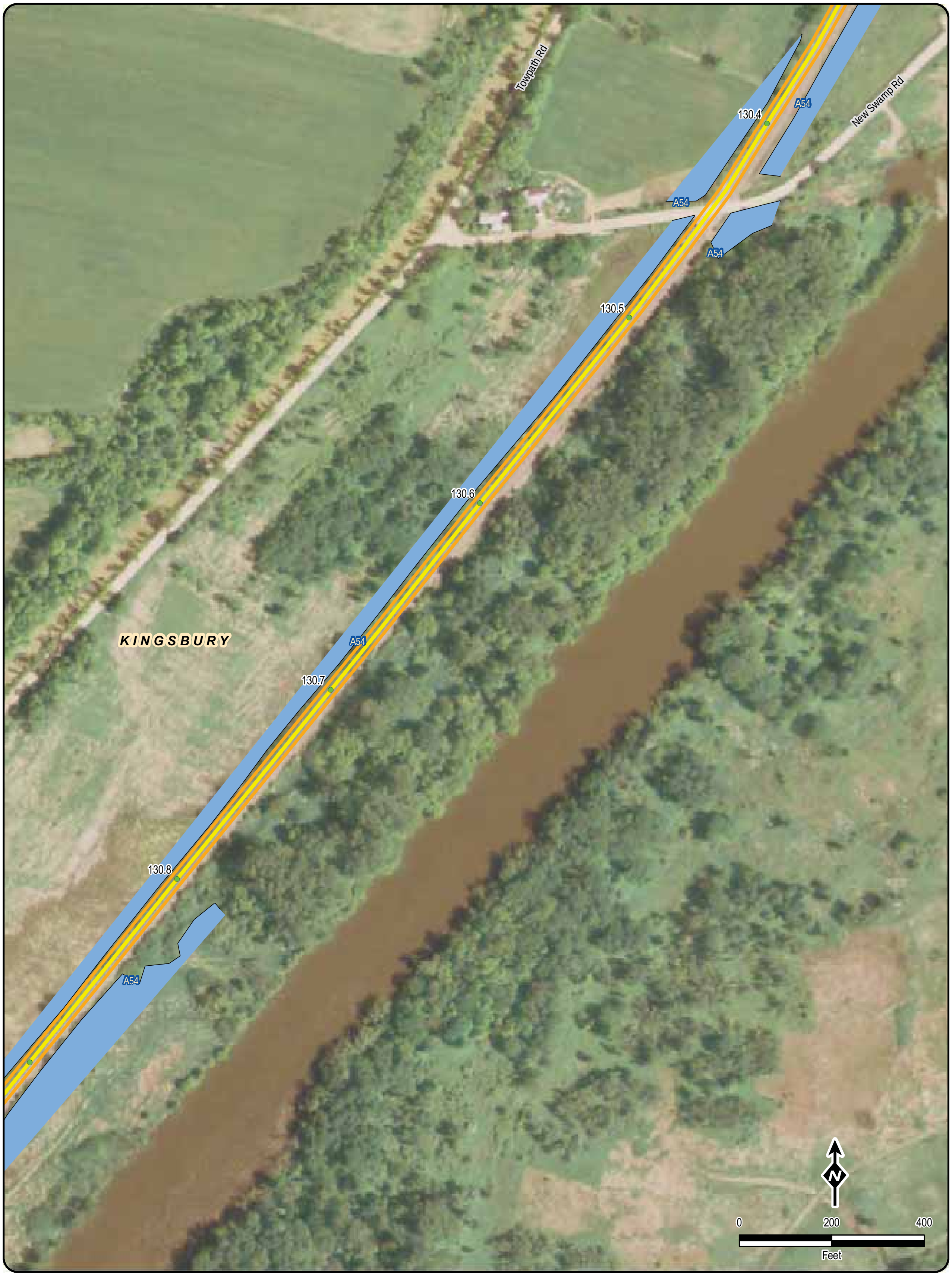
Figure A-1

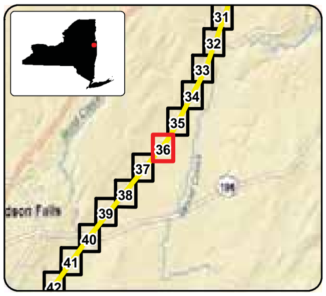
Wetland Delineation Mapping

Sheet 35 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- ▨ PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

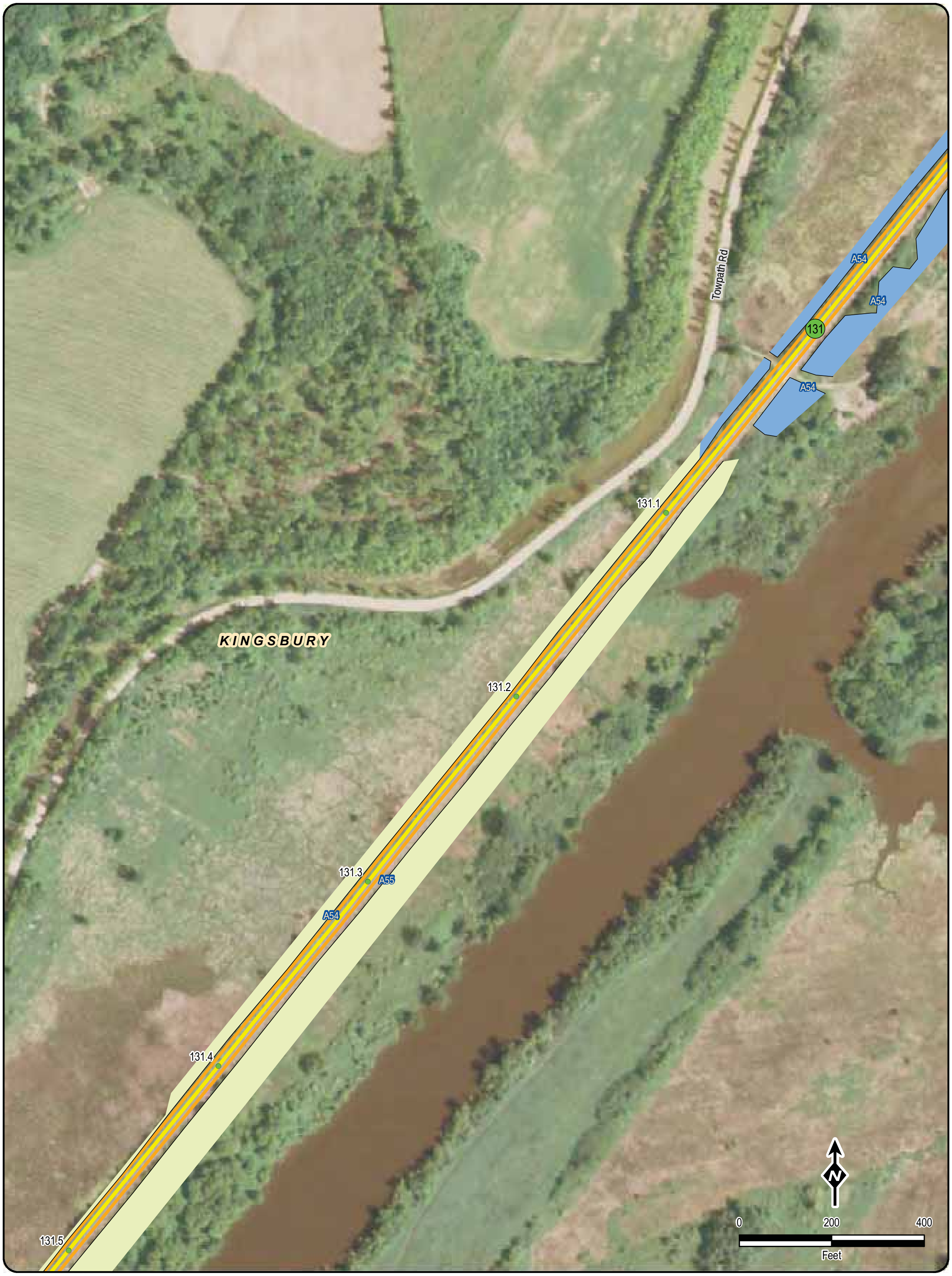
Figure A-1

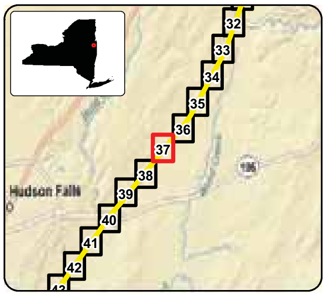
Wetland Delineation Mapping

Sheet 36 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

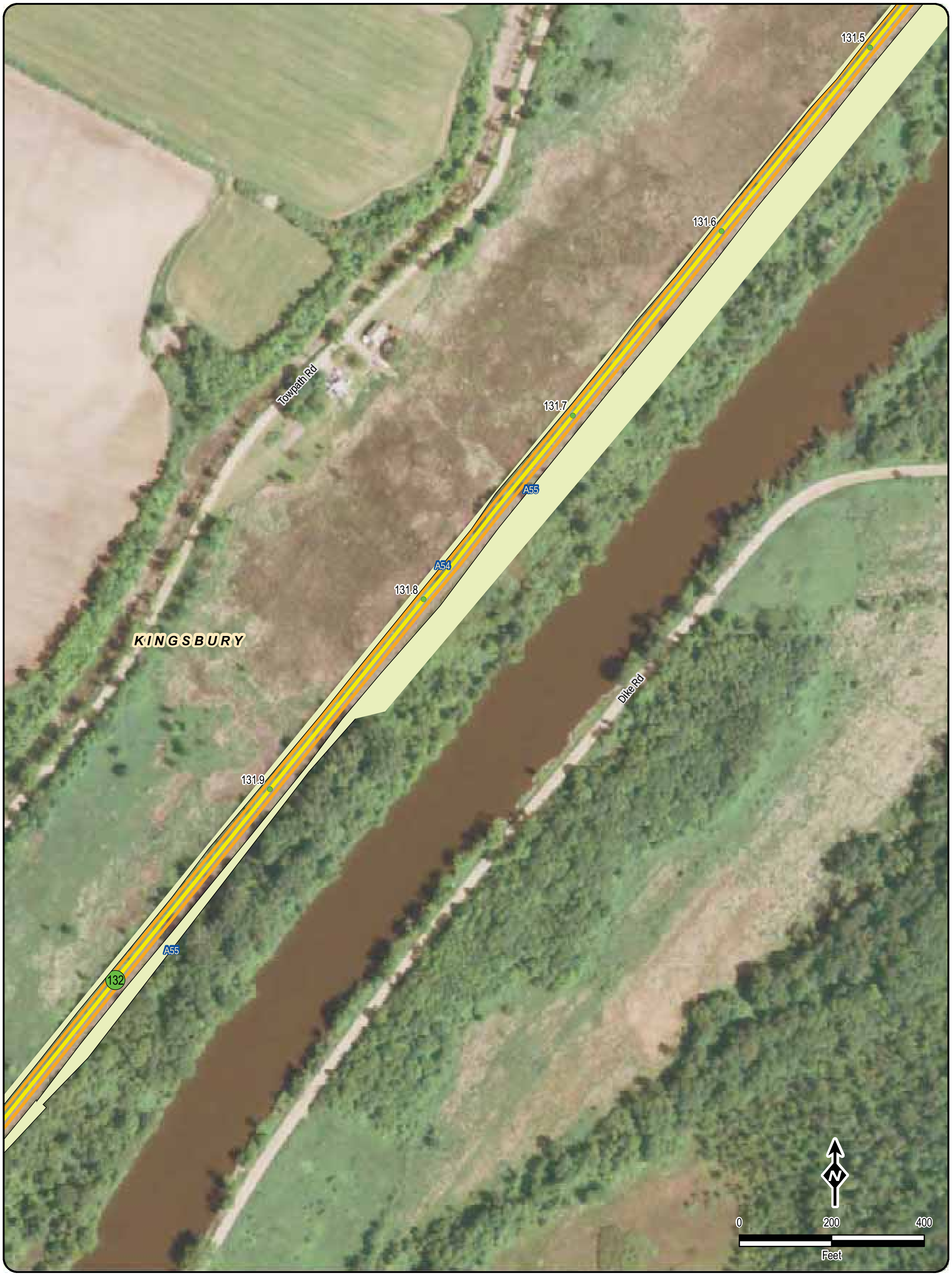
Figure A-1

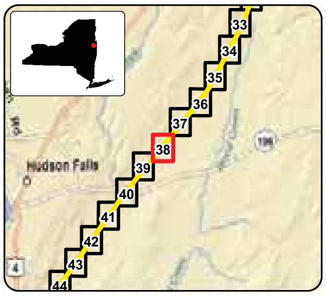
Wetland Delineation Mapping

Sheet 37 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
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POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

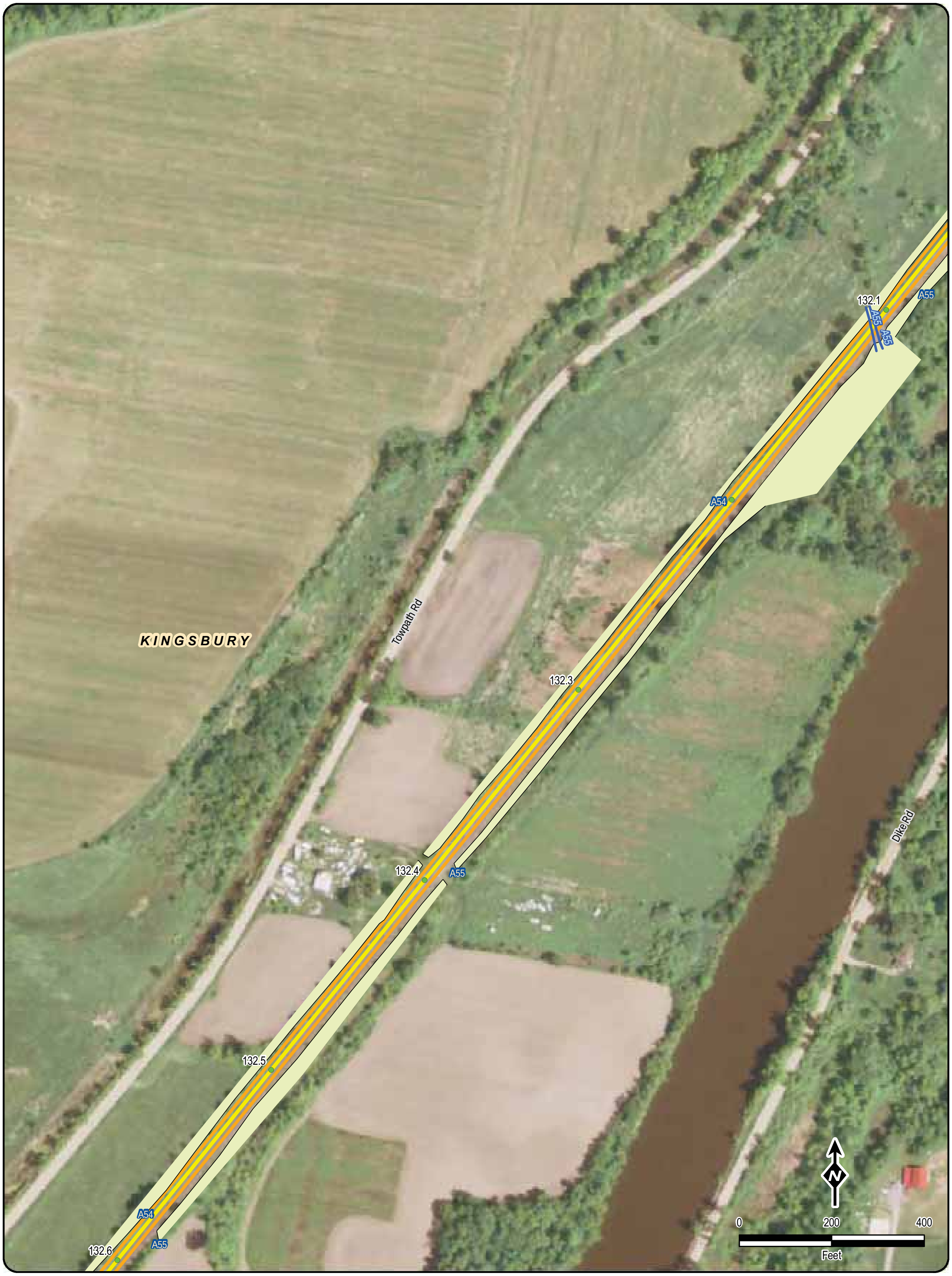
Figure A-1

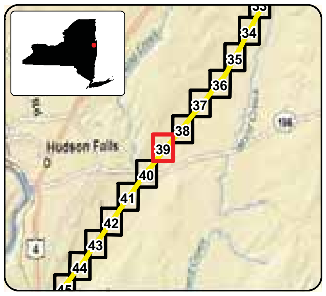
Wetland Delineation Mapping

Sheet 38 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

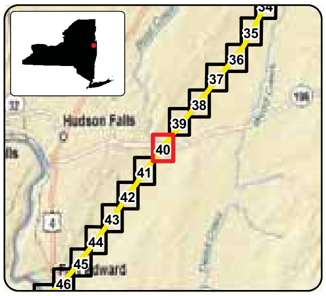
Figure A-1

Wetland Delineation Mapping

Sheet 39 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

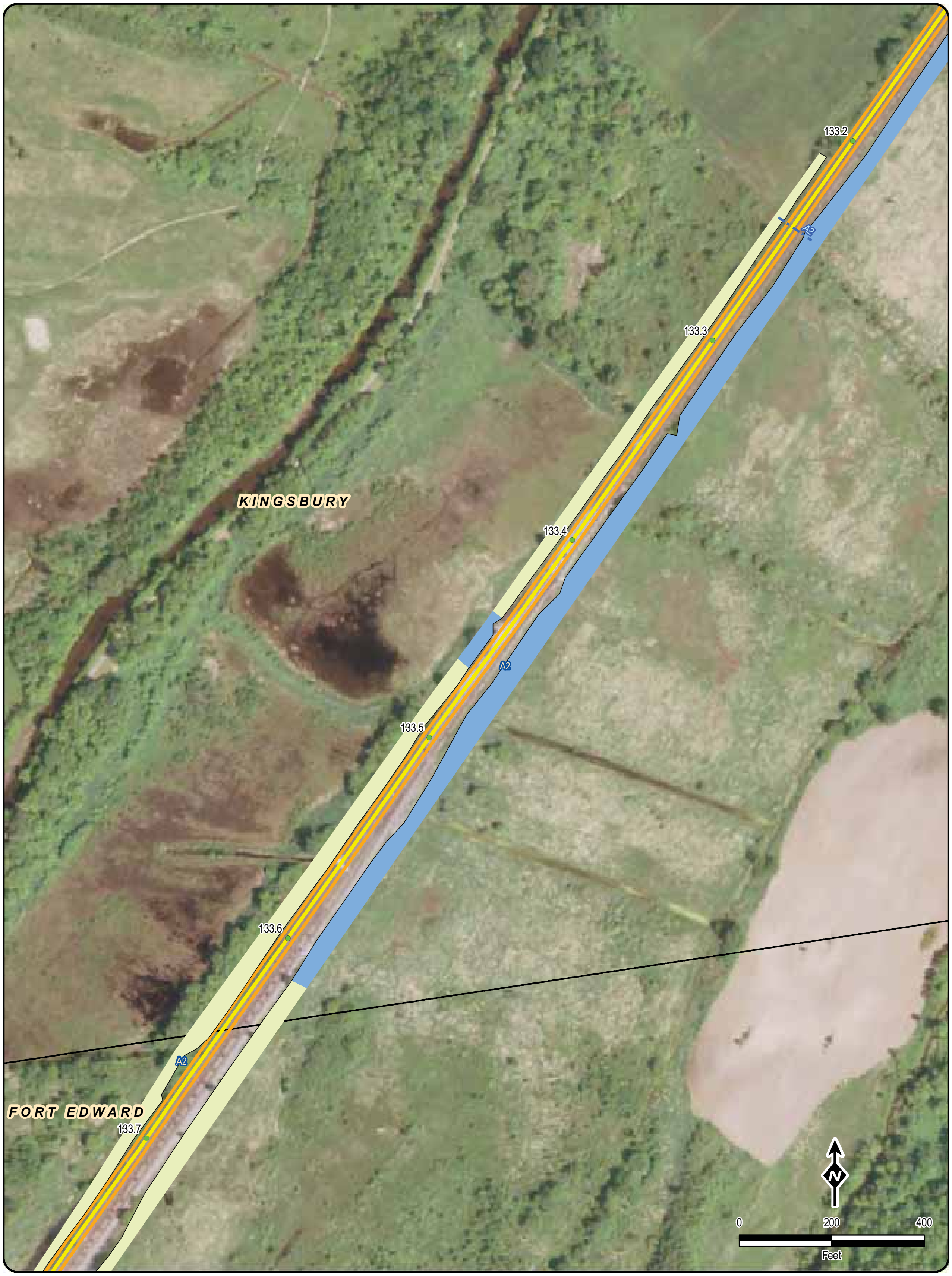
Figure A-1

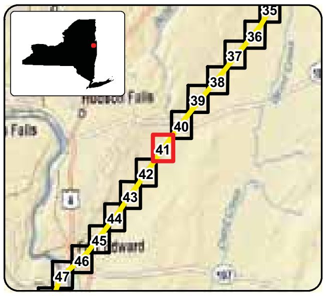
Wetland Delineation Mapping

Sheet 40 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

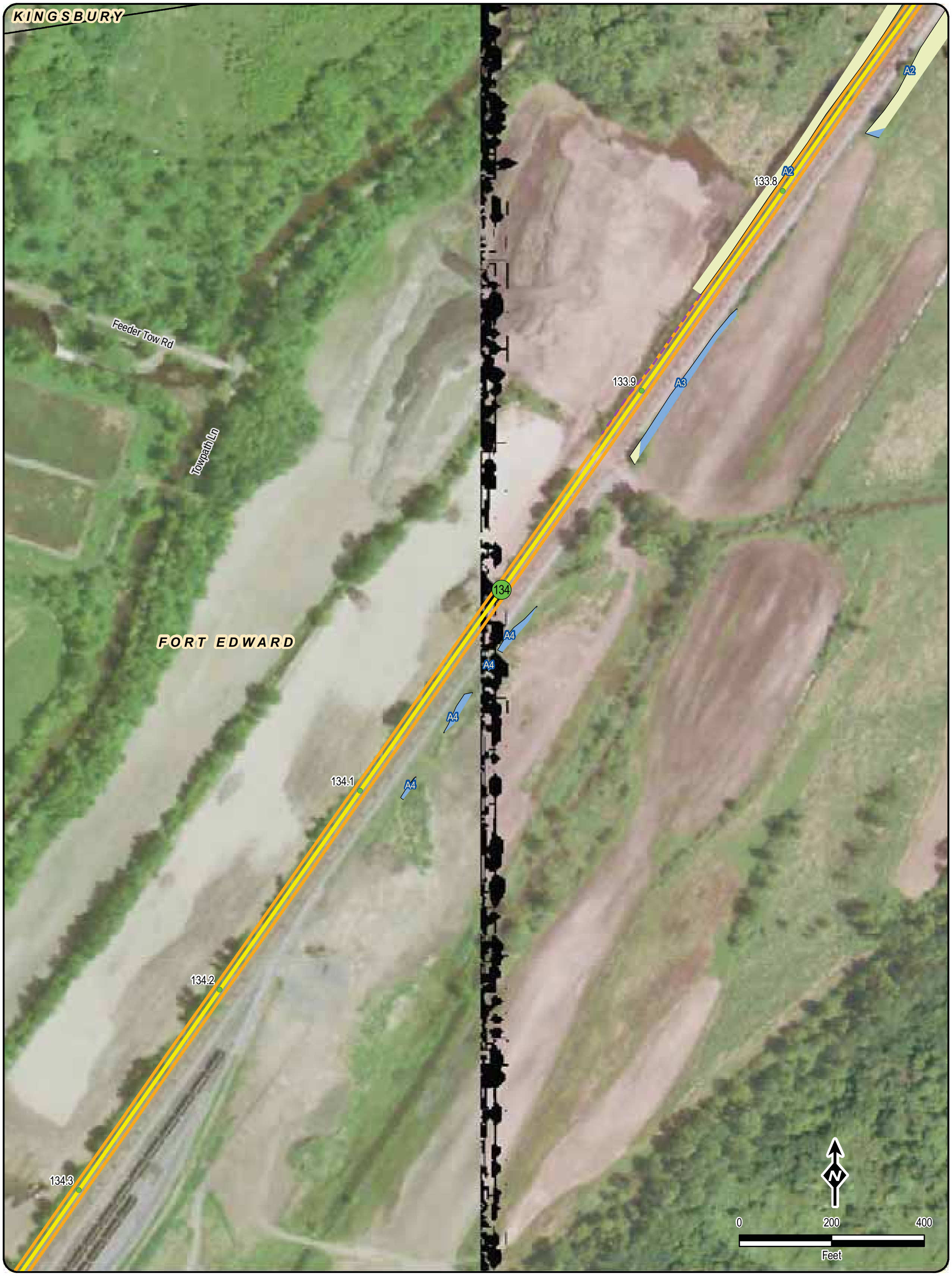
Figure A-1

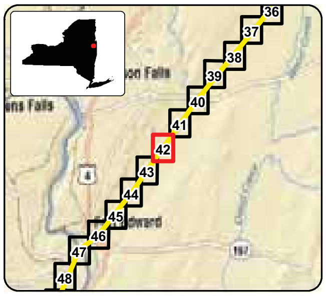
Wetland Delineation Mapping

Sheet 41 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

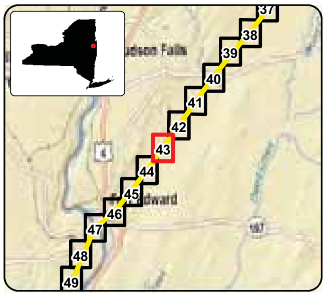
Figure A-1

Wetland Delineation Mapping

Sheet 42 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- 🟨 PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

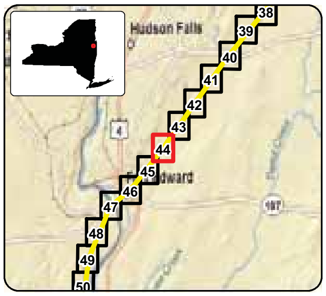
Figure A-1

Wetland Delineation Mapping

Sheet 43 of 175

Prepared by: HDR | [illegible] & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

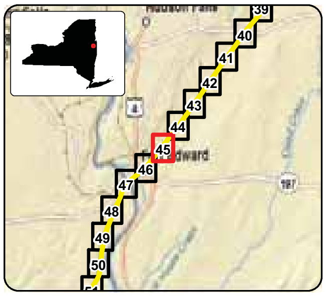
Figure A-1

Wetland Delineation Mapping

Sheet 44 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
━	Proposed CHPEI Route
▭	Construction Corridor
━	Wetland Delineation Line
━	Perennial Stream Top of Bank
‐ · ‐	Intermittent Stream
‐ ‐	Ditch
	WETLAND ID
	STREAM ID
	TOWN NAME
■	PEM Wetland
■	PFO Wetlnad
■	PSS Wetland
■	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
▨	POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

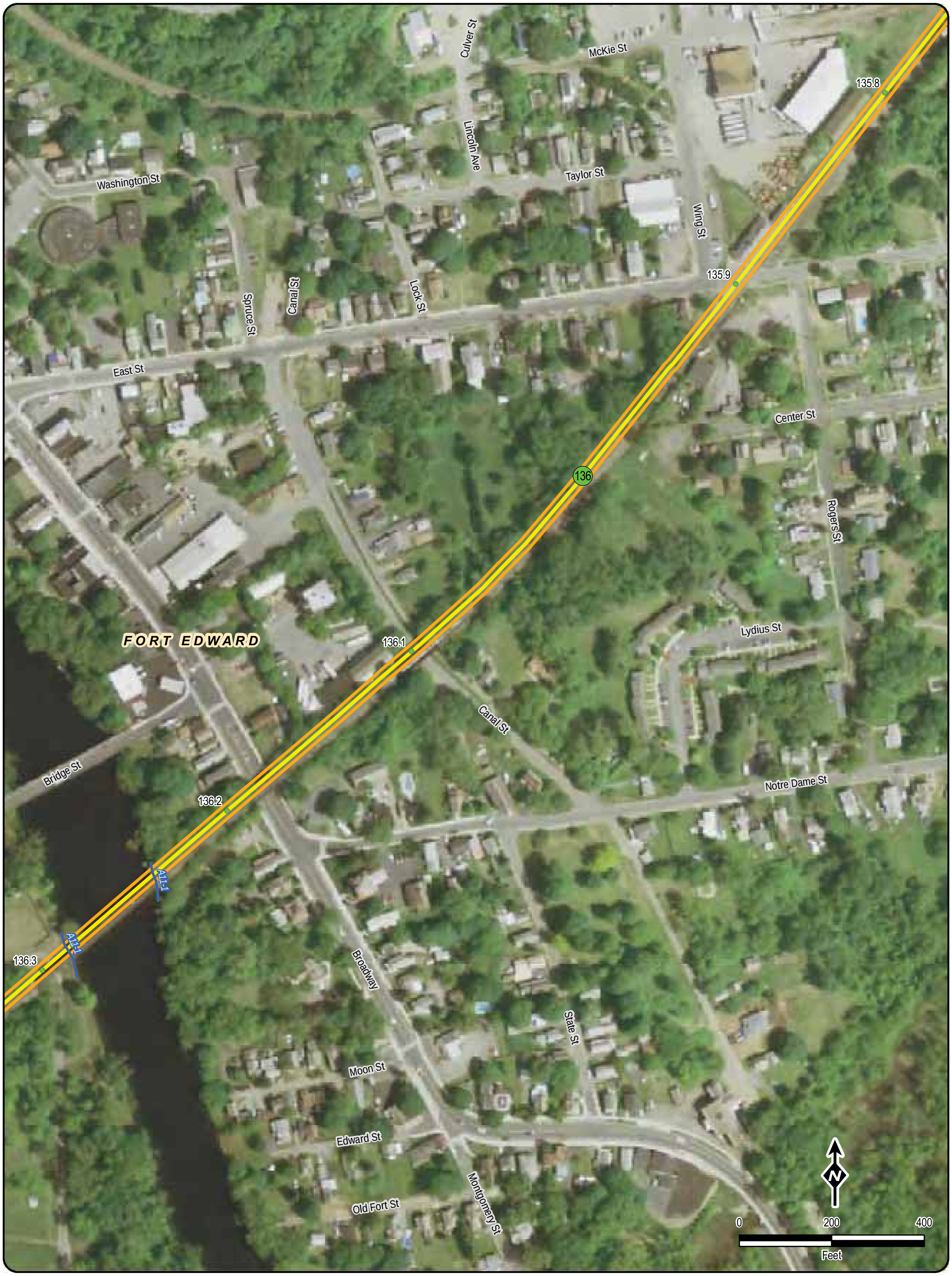
Figure A-1

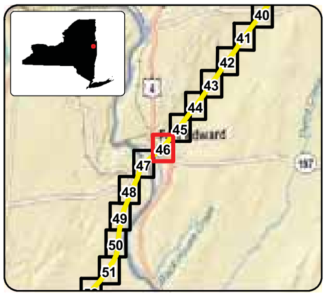
Wetland Delineation Mapping

Sheet 45 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

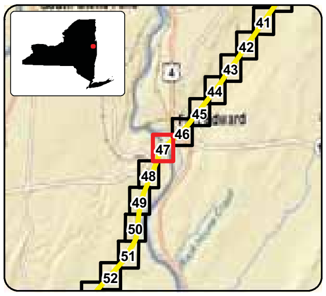
Figure A-1

Wetland Delineation Mapping

Sheet 46 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ─ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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PFO	Palustrine Forested
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

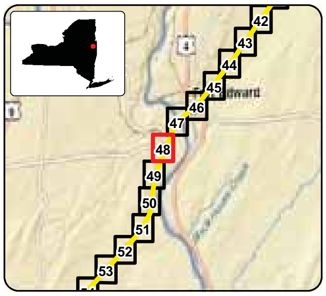
Figure A-1

Wetland Delineation Mapping

Sheet 47 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
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- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

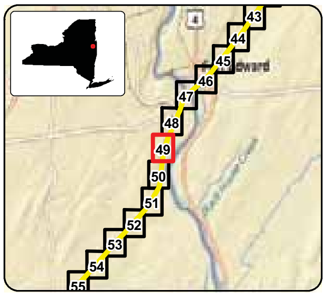
Figure A-1

Wetland Delineation Mapping

Sheet 48 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- – – Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
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- ▨ PEM/PSS Wetland
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Cover Type	Description
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PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

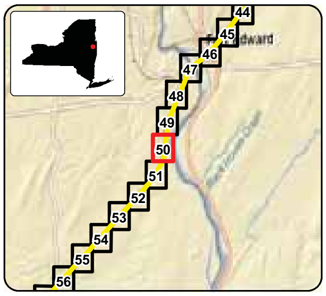
Figure A-1

Wetland Delineation Mapping

Sheet 49 of 175

Prepared by: HDR | [illegible] & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- ▨ PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

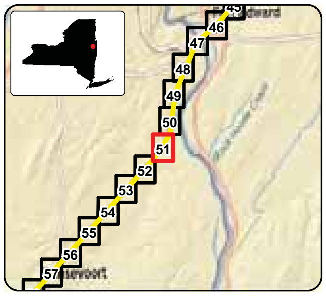
Figure A-1

Wetland Delineation Mapping

Sheet 50 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

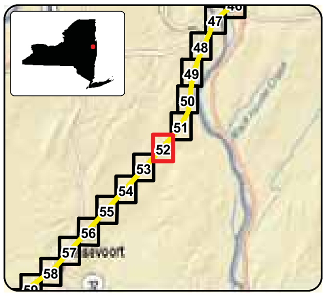
Figure A-1

Wetland Delineation Mapping

Sheet 51 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
—	Proposed CHPEI Route
▭	Construction Corridor
—	Wetland Delineation Line
—	Perennial Stream Top of Bank
- · -	Intermittent Stream
- -	Ditch
	WETLAND ID
	STREAM ID
	TOWN NAME
■	PEM Wetland
■	PFO Wetlnad
■	PSS Wetland
■	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
▨	POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

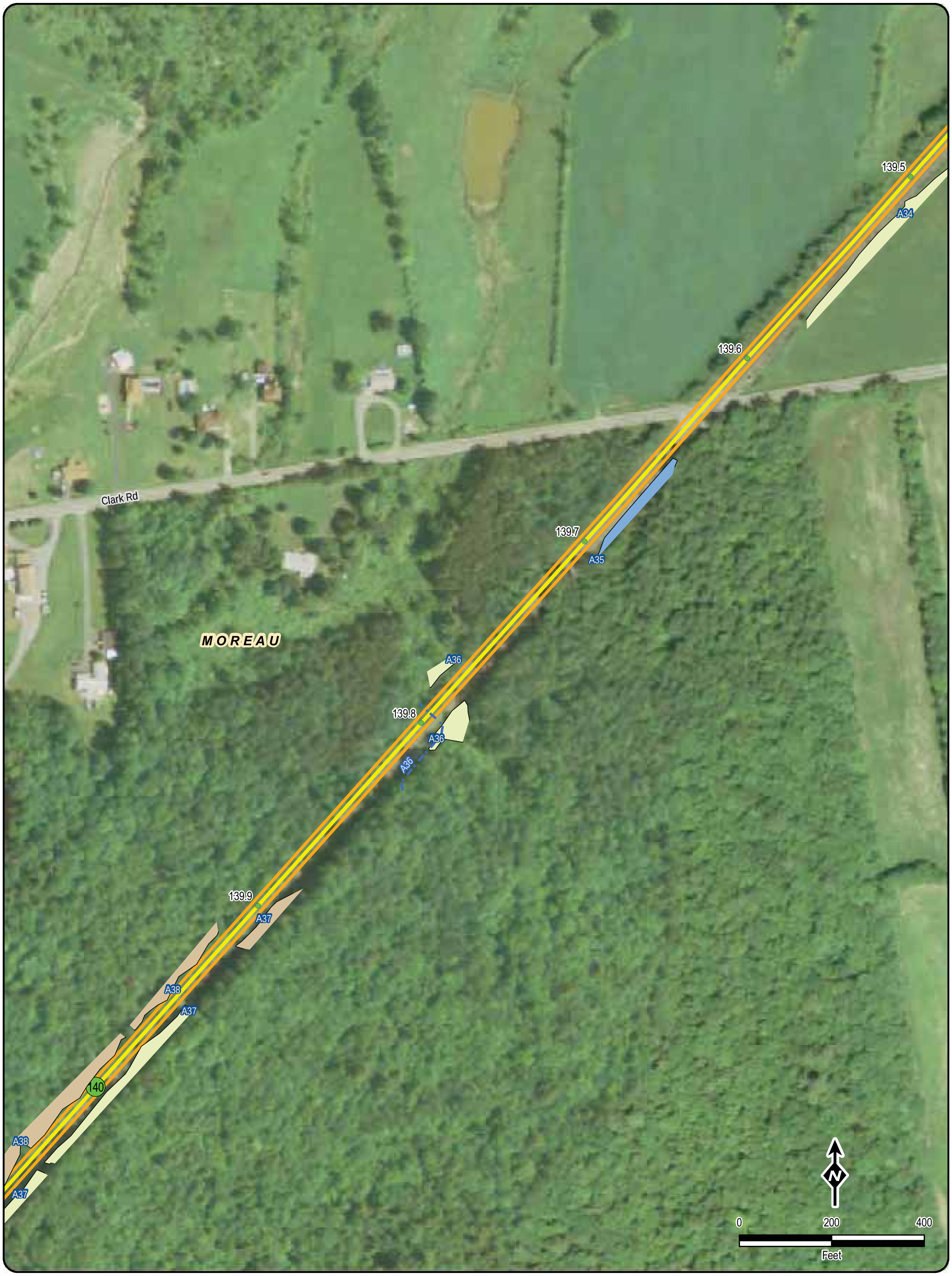
Figure A-1

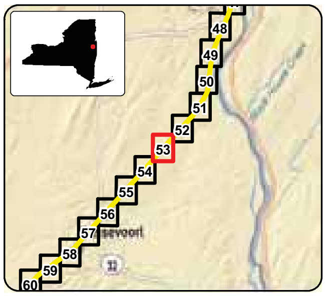
Wetland Delineation Mapping

Sheet 52 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- – – Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- 🟨 PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

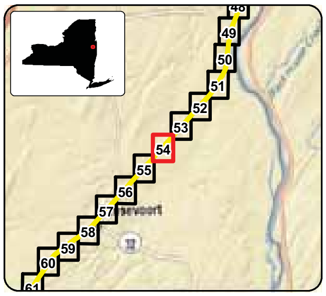
Figure A-1

Wetland Delineation Mapping

Sheet 53 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
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- WETLAND ID
- STREAM ID
- TOWN NAME
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- ■ PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

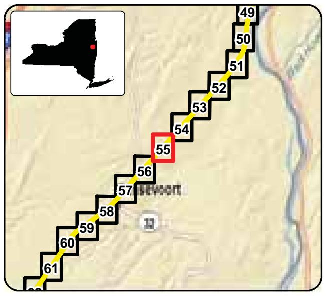
Figure A-1

Wetland Delineation Mapping

Sheet 54 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
—	Proposed CHPEI Route
▭	Construction Corridor
—	Wetland Delineation Line
—	Perennial Stream Top of Bank
- · -	Intermittent Stream
- -	Ditch
▇	PEM Wetland
▇	PFO Wetlnad
▇	PSS Wetland
▇	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
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WETLAND ID
STREAM ID
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

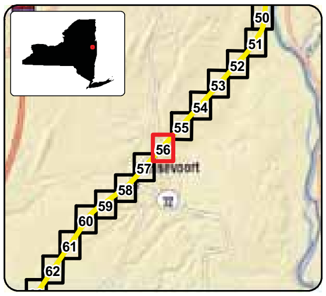
Figure A-1

Wetland Delineation Mapping

Sheet 55 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
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- ━ Perennial Stream Top of Bank
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- ‐ ‐ Ditch
- WETLAND ID
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- TOWN NAME
- 🟦 PEM Wetland
- ▨ PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
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- ▨ PEM/PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

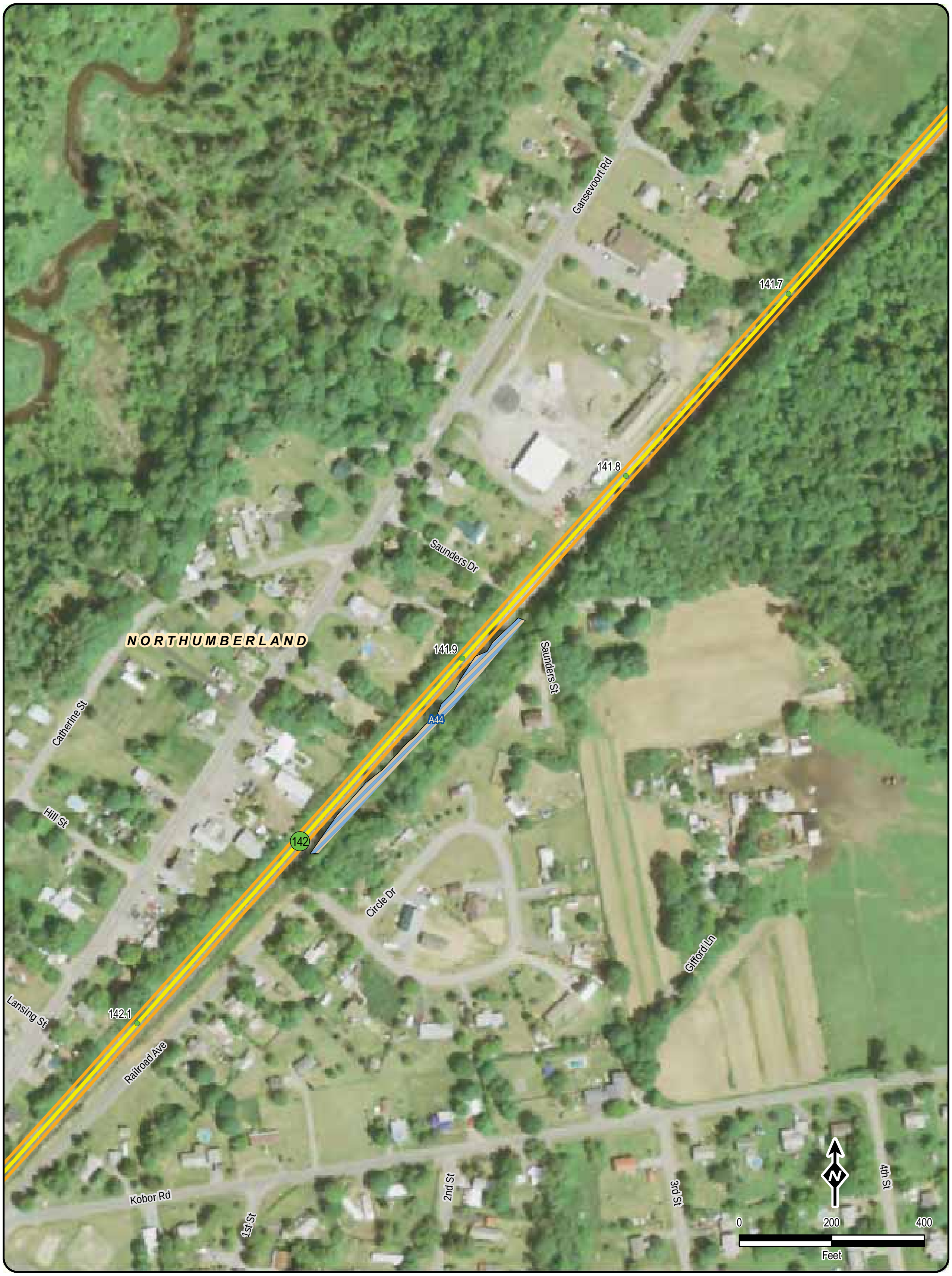
Figure A-1

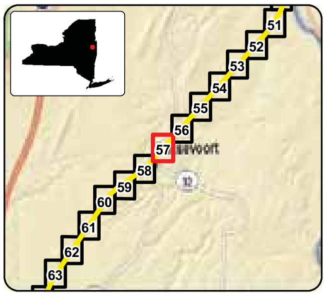
Wetland Delineation Mapping

Sheet 56 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

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- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

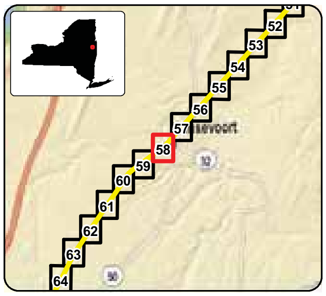
Figure A-1

Wetland Delineation Mapping

Sheet 57 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
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- STREAM ID
- TOWN NAME

- ■ PEM Wetland
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- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

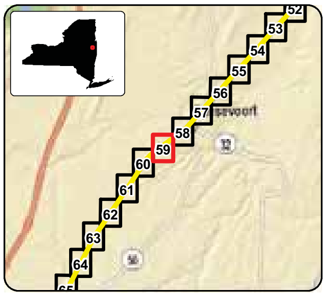
Figure A-1

Wetland Delineation Mapping

Sheet 58 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
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- ▭ Construction Corridor
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- 🟨 PSS Wetland
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- ▨ PFO/PEM Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

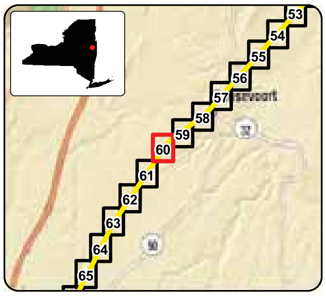
Figure A-1

Wetland Delineation Mapping

Sheet 59 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
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- ‒ ‒ Ditch
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

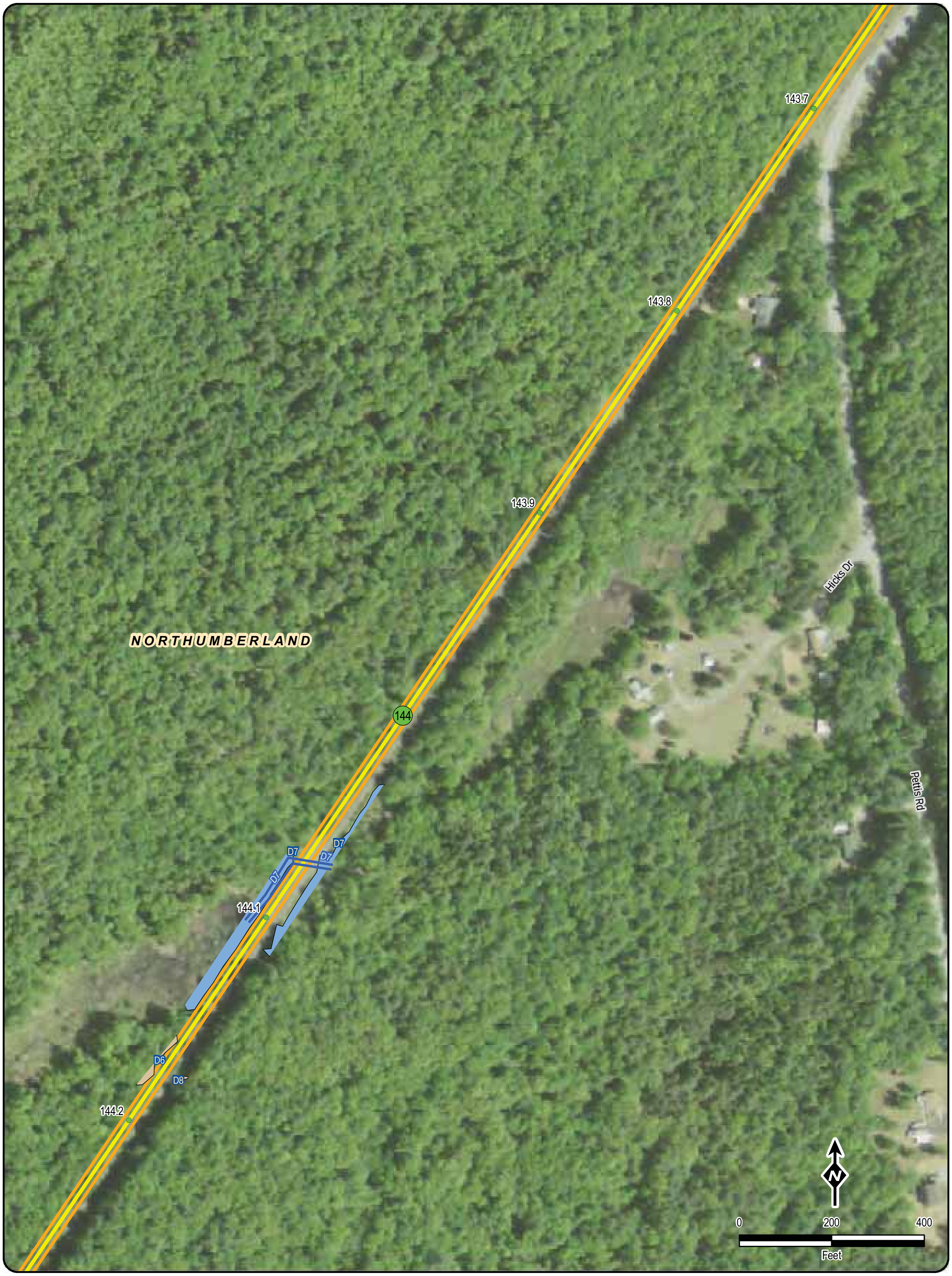
Figure A-1

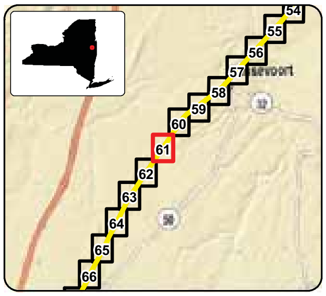
Wetland Delineation Mapping

Sheet 60 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
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- Construction Corridor
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

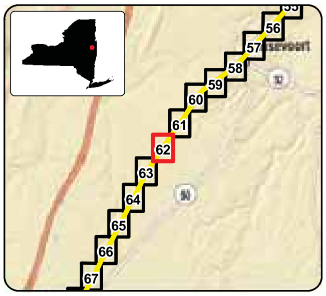
Figure A-1

Wetland Delineation Mapping

Sheet 61 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
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- TOWN NAME
- 🟦 PEM Wetland
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- ▨ PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

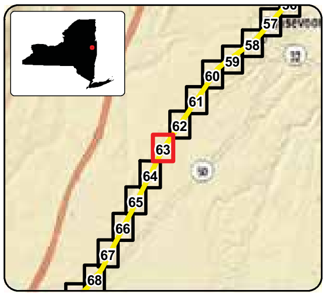
Figure A-1

Wetland Delineation Mapping

Sheet 62 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
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- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
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Cover Type	Description
PEM	Palustrine Emergent
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

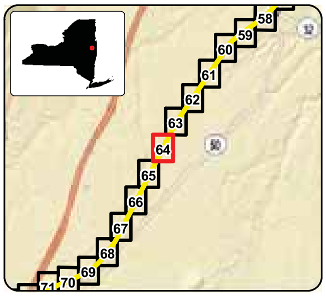
Figure A-1

Wetland Delineation Mapping

Sheet 63 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
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Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

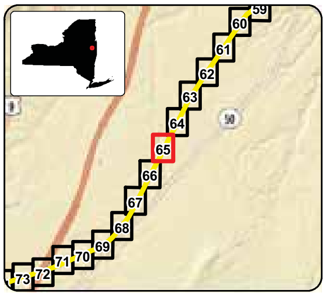
Figure A-1

Wetland Delineation Mapping

Sheet 64 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
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- — Proposed CHPEI Route
- ▭ Construction Corridor
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- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- ▇ PEM Wetland
- ▇ PFO Wetlnad
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- ▨ PFO/PEM Wetland
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

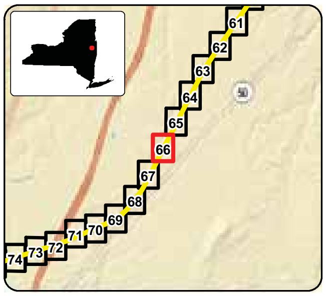
Figure A-1

Wetland Delineation Mapping

Sheet 65 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

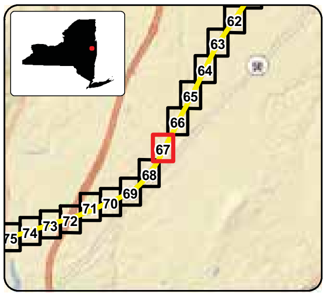
Figure A-1

Wetland Delineation Mapping

Sheet 66 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
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- — Proposed CHPEI Route
- ▭ Construction Corridor
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- — Perennial Stream Top of Bank
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- STREAM ID
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Cover Type	Description
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Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

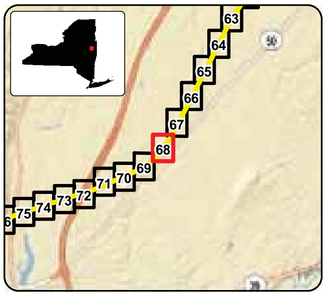
Figure A-1

Wetland Delineation Mapping

Sheet 67 of 175

Prepared by: HDR, ... & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

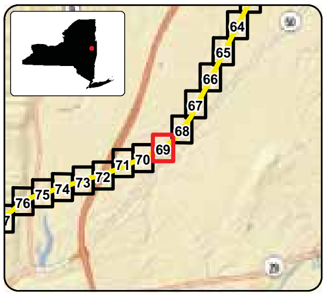
Figure A-1

Wetland Delineation Mapping

Sheet 68 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

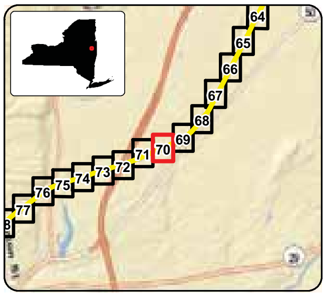
Figure A-1

Wetland Delineation Mapping

Sheet 69 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

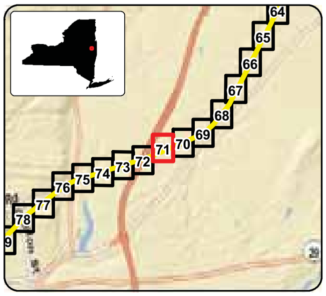
Figure A-1

Wetland Delineation Mapping

Sheet 70 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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- ▭ Construction Corridor
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

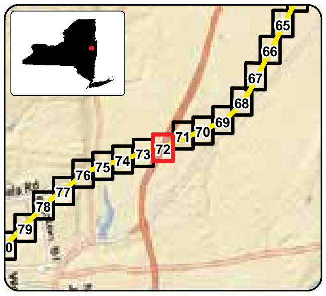
Figure A-1

Wetland Delineation Mapping

Sheet 71 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

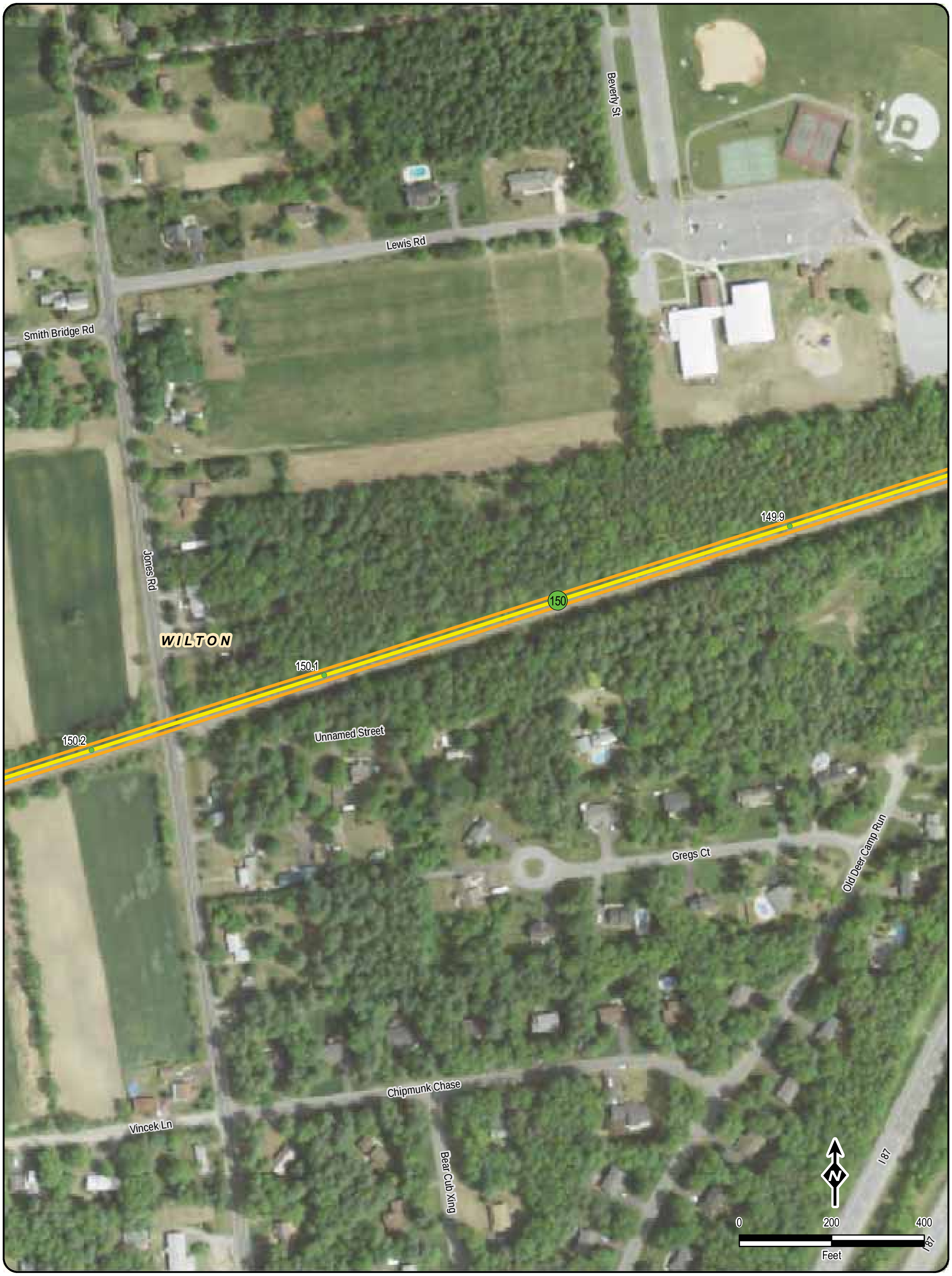
Figure A-1

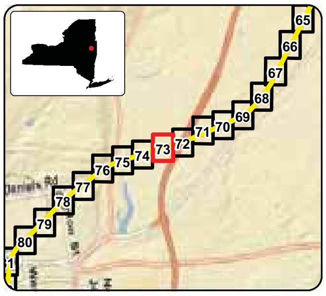
Wetland Delineation Mapping

Sheet 72 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- 🟨 PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
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PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

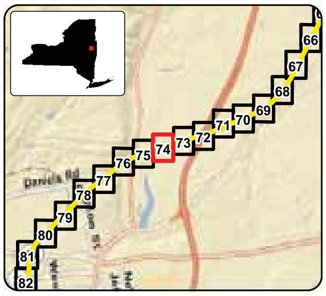
Figure A-1

Wetland Delineation Mapping

Sheet 73 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
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POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

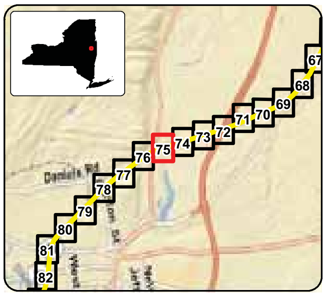
Figure A-1

Wetland Delineation Mapping

Sheet 74 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

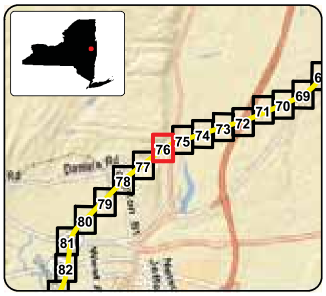
Figure A-1

Wetland Delineation Mapping

Sheet 75 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

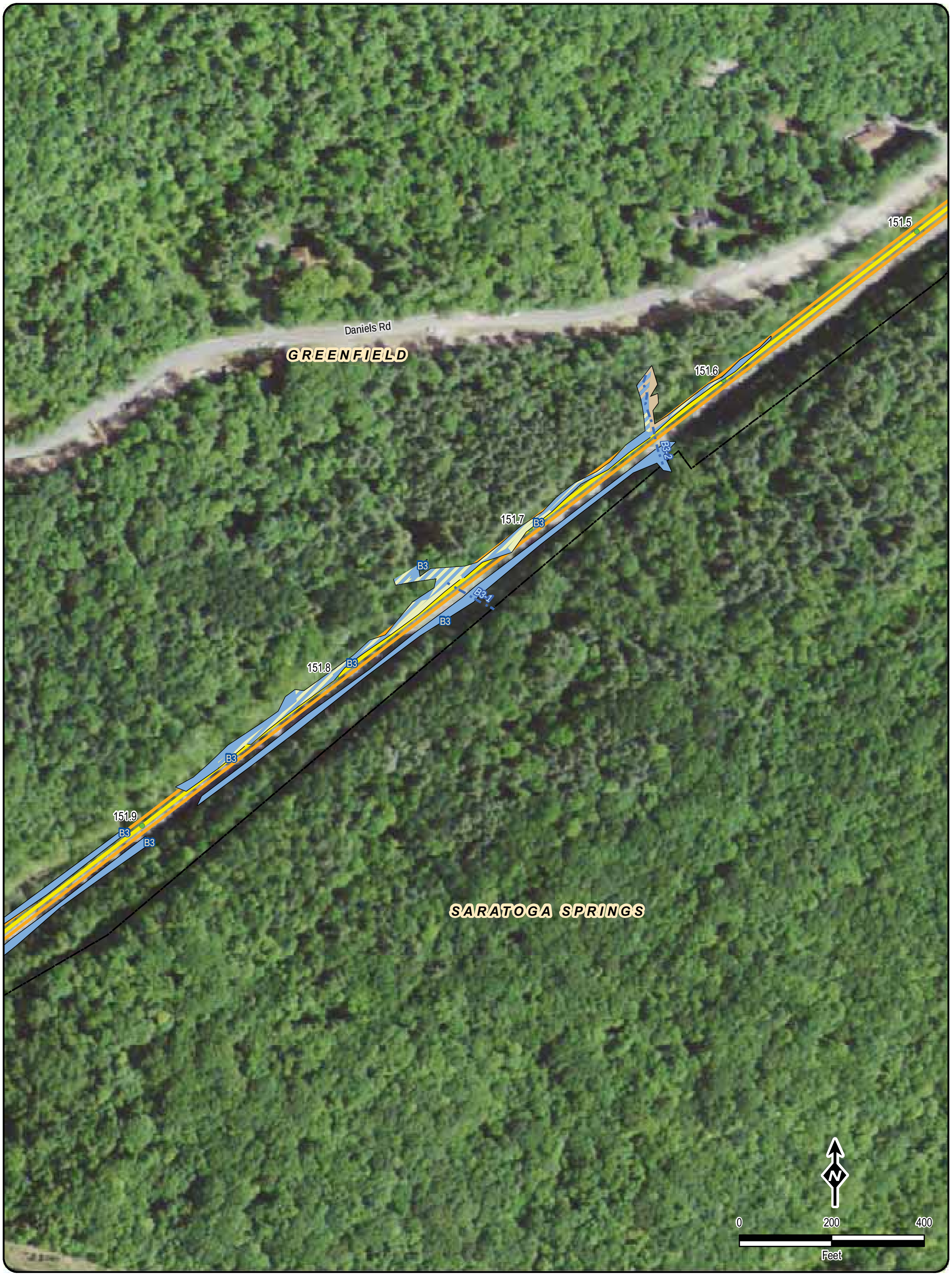
Figure A-1

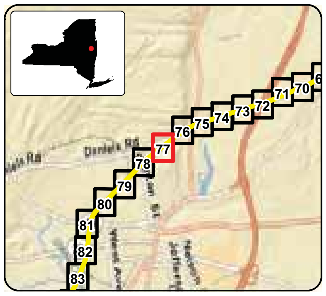
Wetland Delineation Mapping

Sheet 76 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

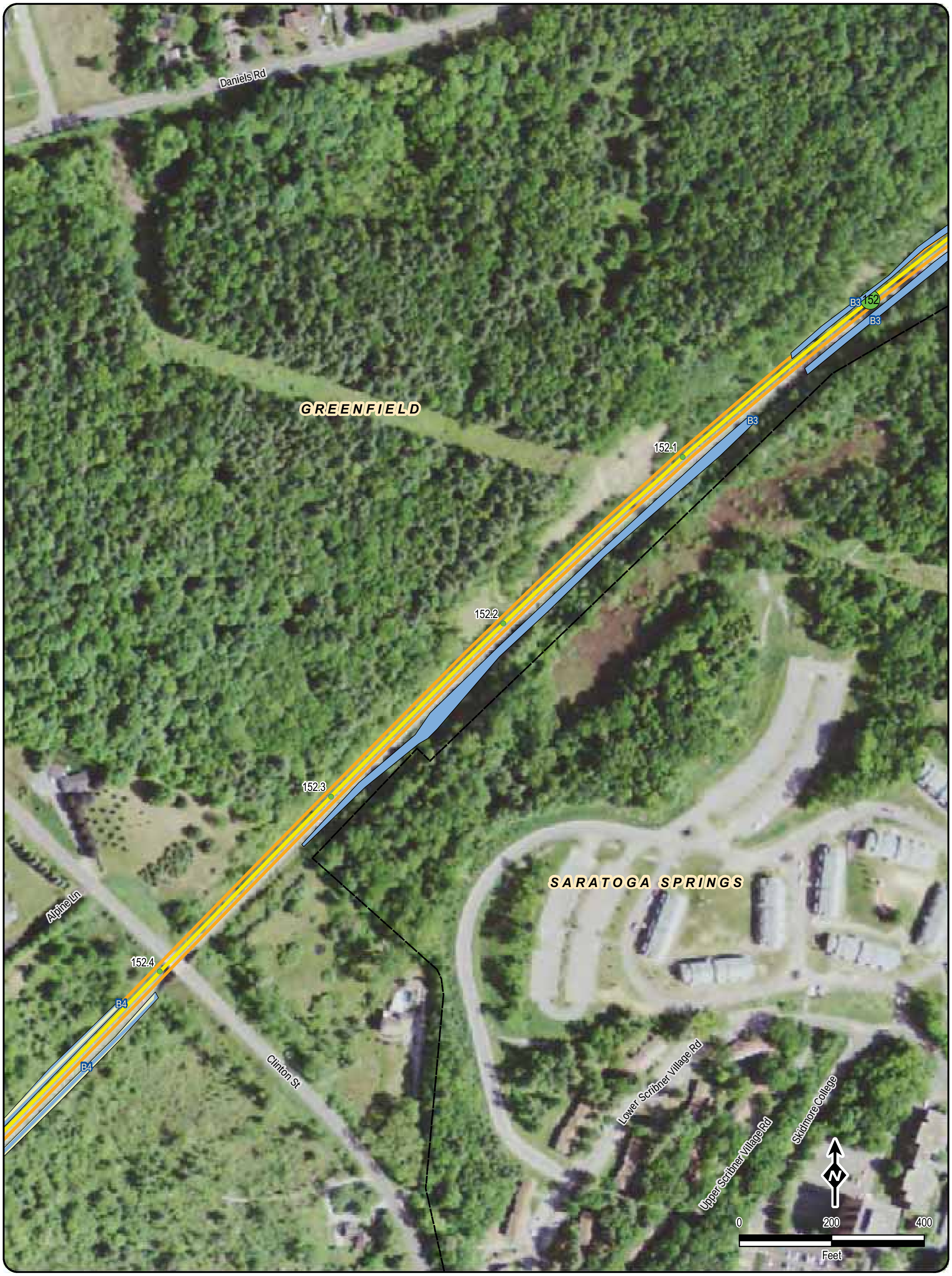
Figure A-1

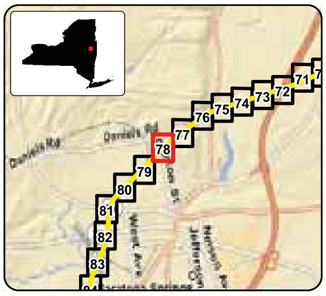
Wetland Delineation Mapping

Sheet 77 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ─ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‒ · ‒ Intermittent Stream
- ‒ ‒ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

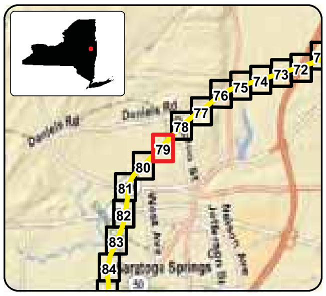
Figure A-1

Wetland Delineation Mapping

Sheet 78 of 175

Prepared by: HDR [illegible] & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

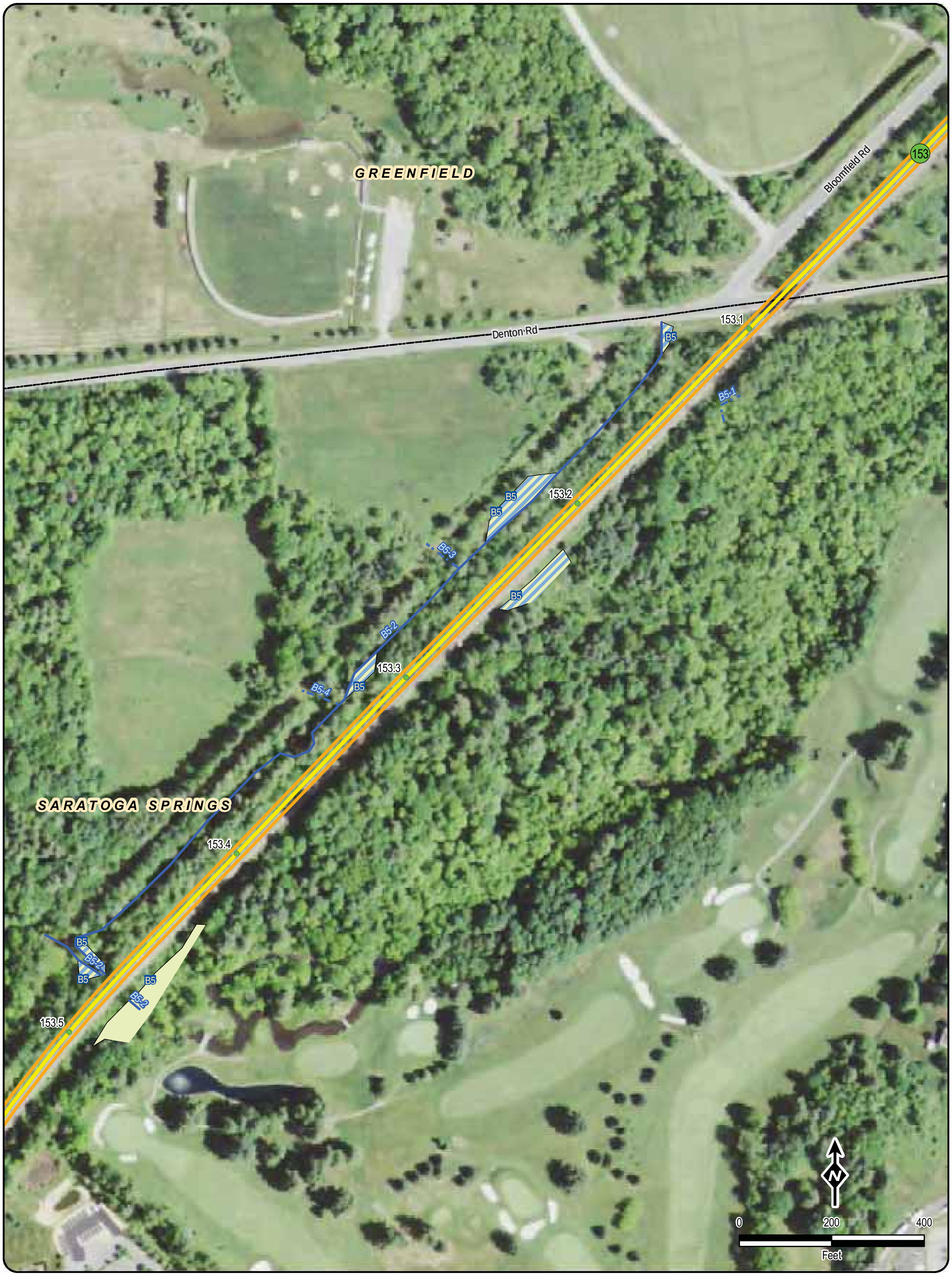
Figure A-1

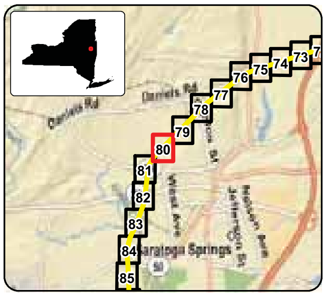
Wetland Delineation Mapping

Sheet 79 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- **WETLAND ID**
- *STREAM ID*
- *TOWN NAME*
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

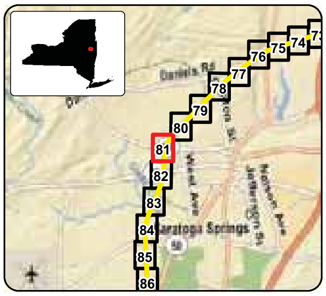
Figure A-1

Wetland Delineation Mapping

Sheet 80 of 175

Prepared by: HDR | ... & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost
▲ Canal Lock
Proposed CHPEI Route
Construction Corridor
Wetland Delineation Line
Perennial Stream Top of Bank
Intermittent Stream
Ditch
WETLAND ID
STREAM ID
TOWN NAME

PEM Wetland
PFO Wetlnad
PSS Wetland
POW Wetland
PFO/PEM Wetland
PFO/PSS Wetland
PEM/PSS Wetland
POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

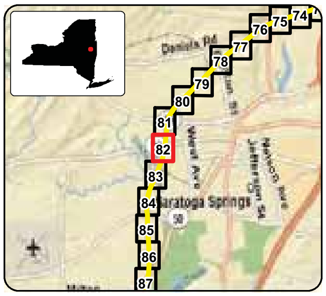
Figure A-1

Wetland Delineation Mapping

Sheet 81 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
—	Proposed CHPEI Route
▭	Construction Corridor
—	Wetland Delineation Line
—	Perennial Stream Top of Bank
- · -	Intermittent Stream
- -	Ditch
	WETLAND ID
	STREAM ID
	TOWN NAME
🟦	PEM Wetland
🟫	PFO Wetlnad
▭	PSS Wetland
🟩	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
▨	POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

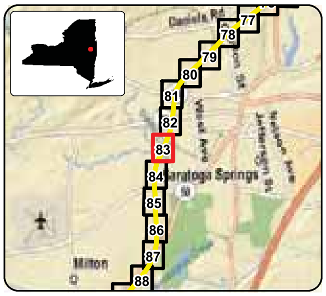
Figure A-1

Wetland Delineation Mapping

Sheet 82 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

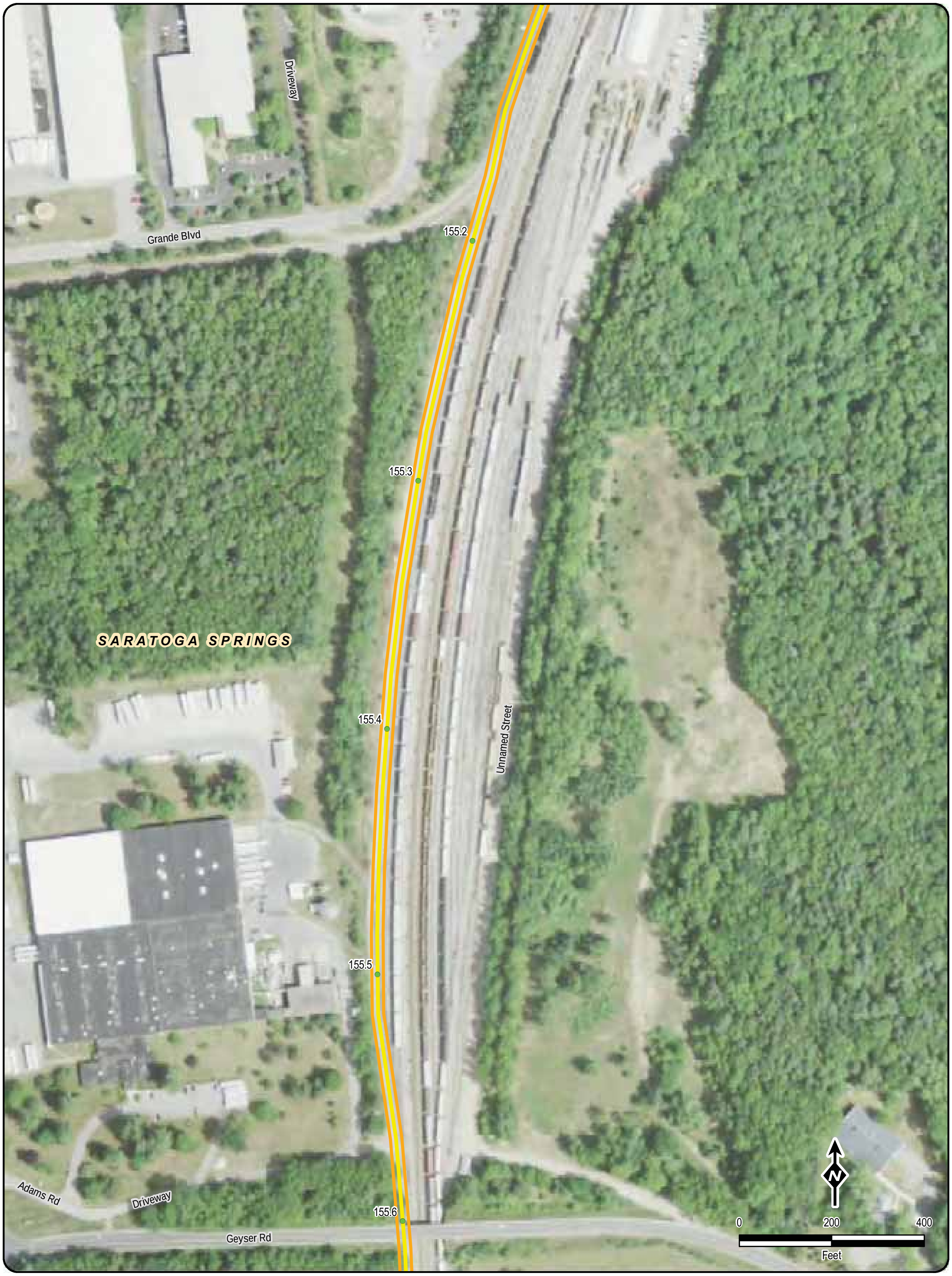
Figure A-1

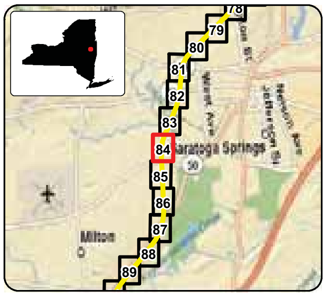
Wetland Delineation Mapping

Sheet 83 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- -·- Intermittent Stream
- – – Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
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PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

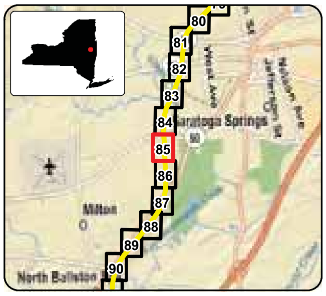
Figure A-1

Wetland Delineation Mapping

Sheet 84 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

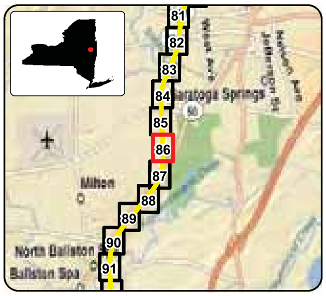
Figure A-1

Wetland Delineation Mapping

Sheet 85 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

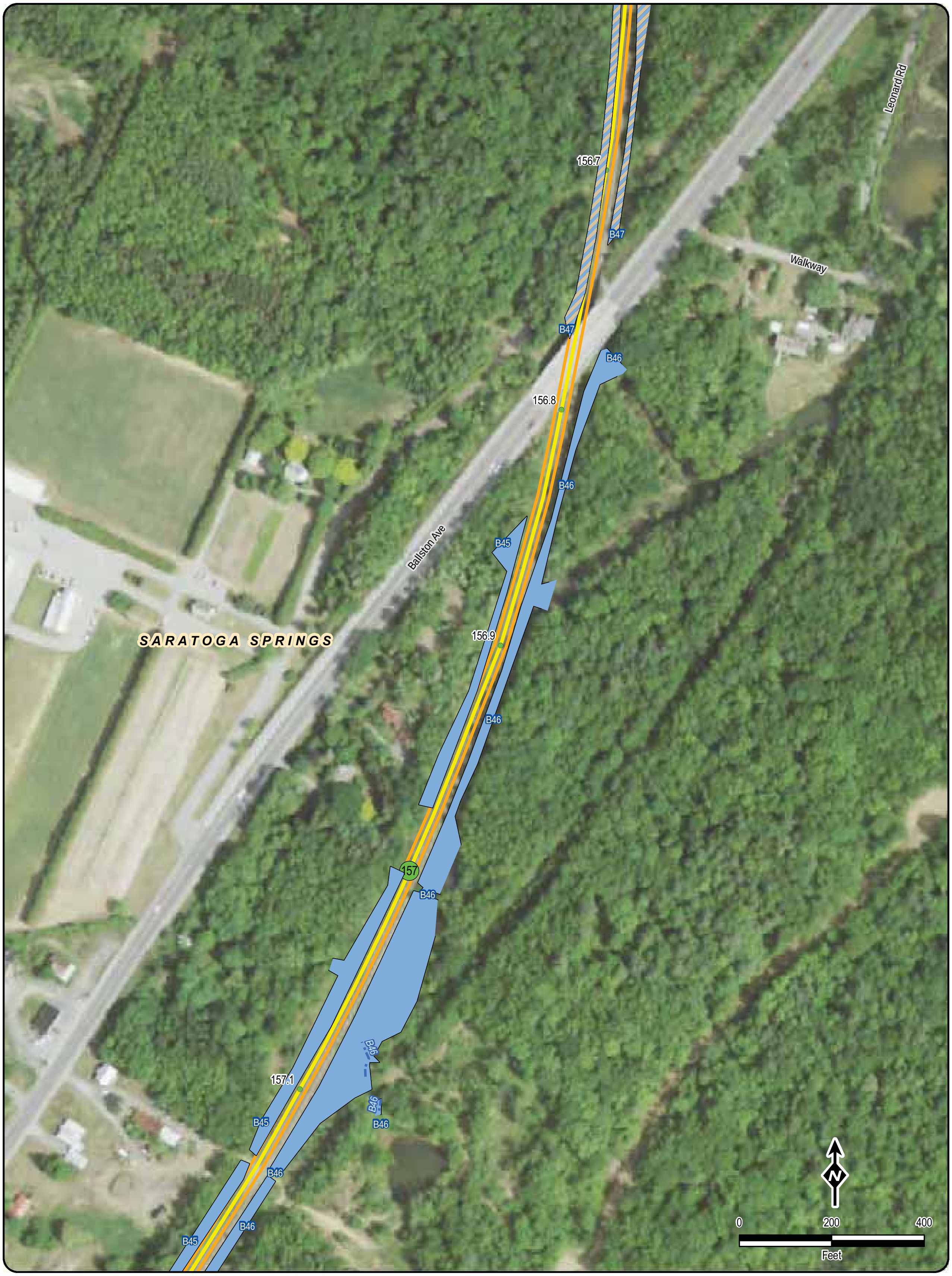
Figure A-1

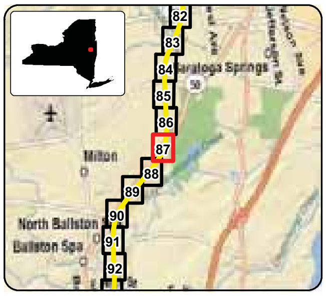
Wetland Delineation Mapping

Sheet 86 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

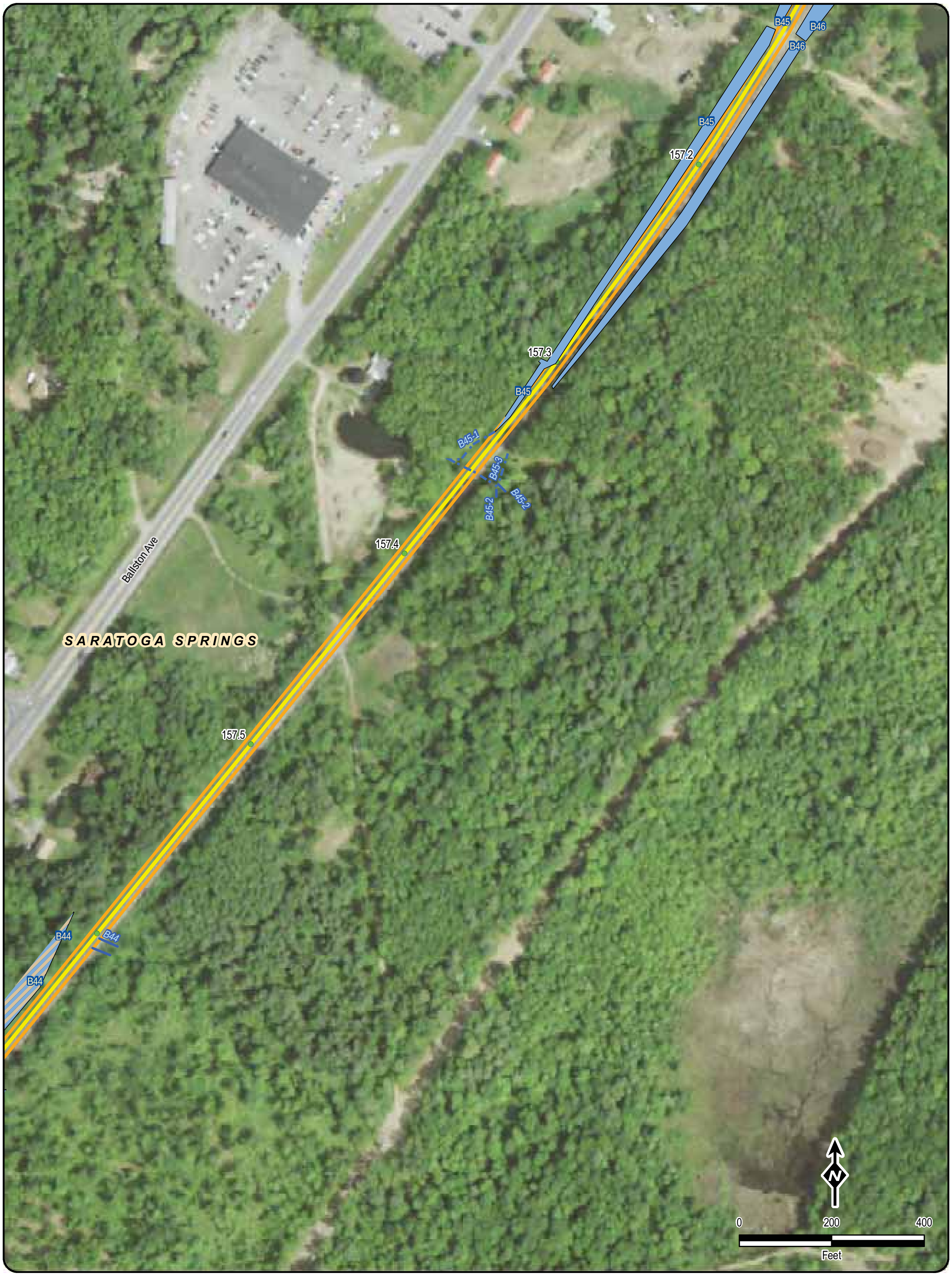
Figure A-1

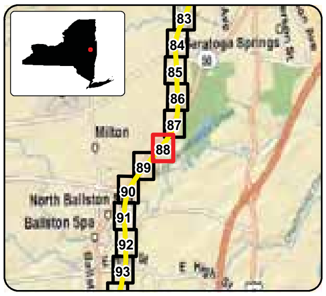
Wetland Delineation Mapping

Sheet 87 of 175

Prepared by: HDR | ESTA & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

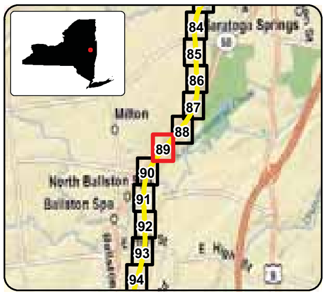
Figure A-1

Wetland Delineation Mapping

Sheet 88 of 175

Prepared by: HDR | TDI & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ☐ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - - Intermittent Stream
- - - Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- ▨ PEM Wetland
- ▨ PFO Wetlnad
- ▨ PSS Wetland
- ▨ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

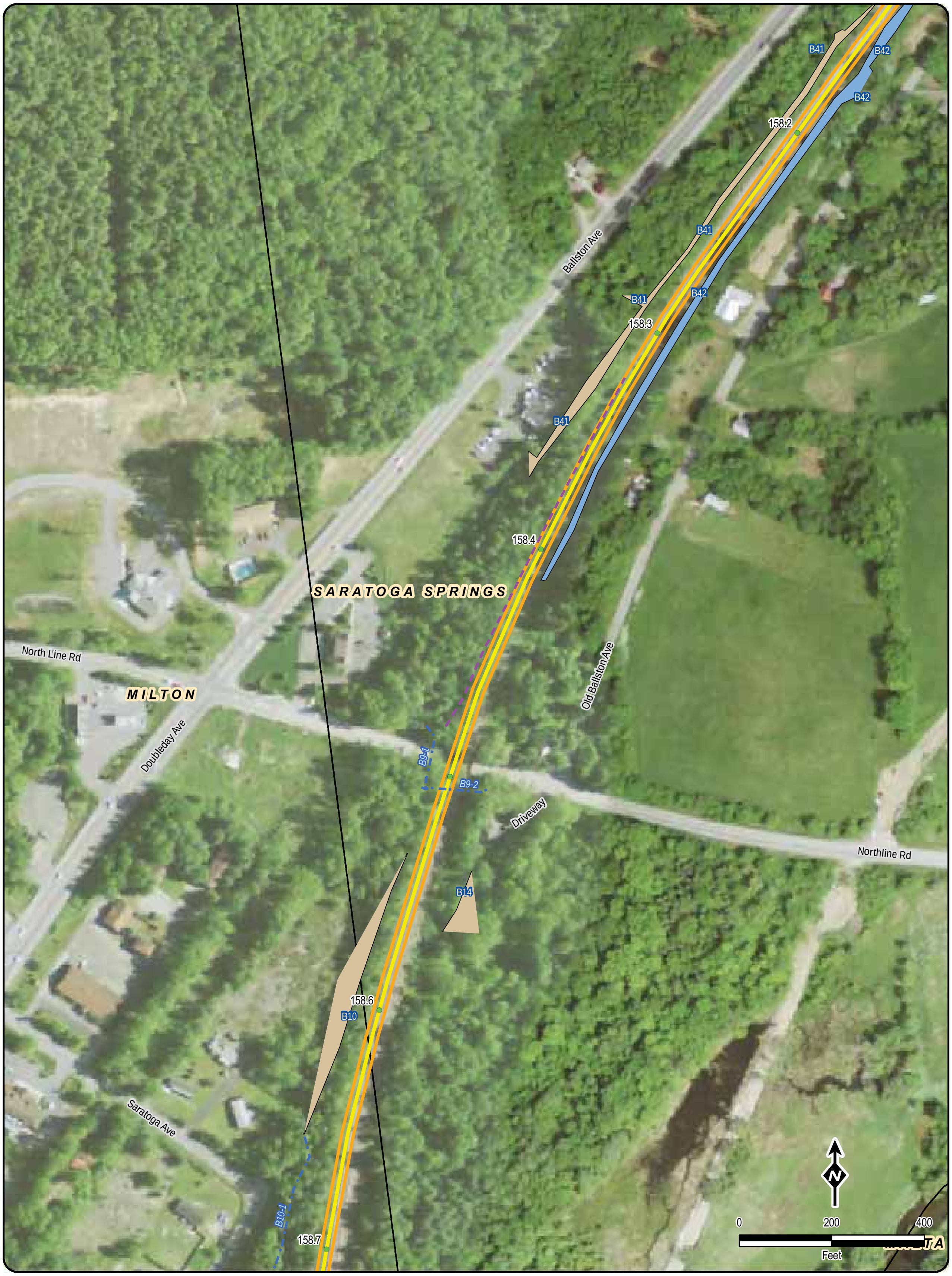
Figure A-1

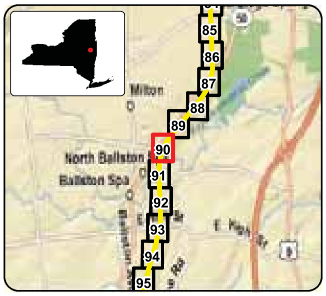
Wetland Delineation Mapping

Sheet 89 of 175

Prepared by: HDR | [illegible] & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- 🟨 PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
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- ▨ PEM/PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

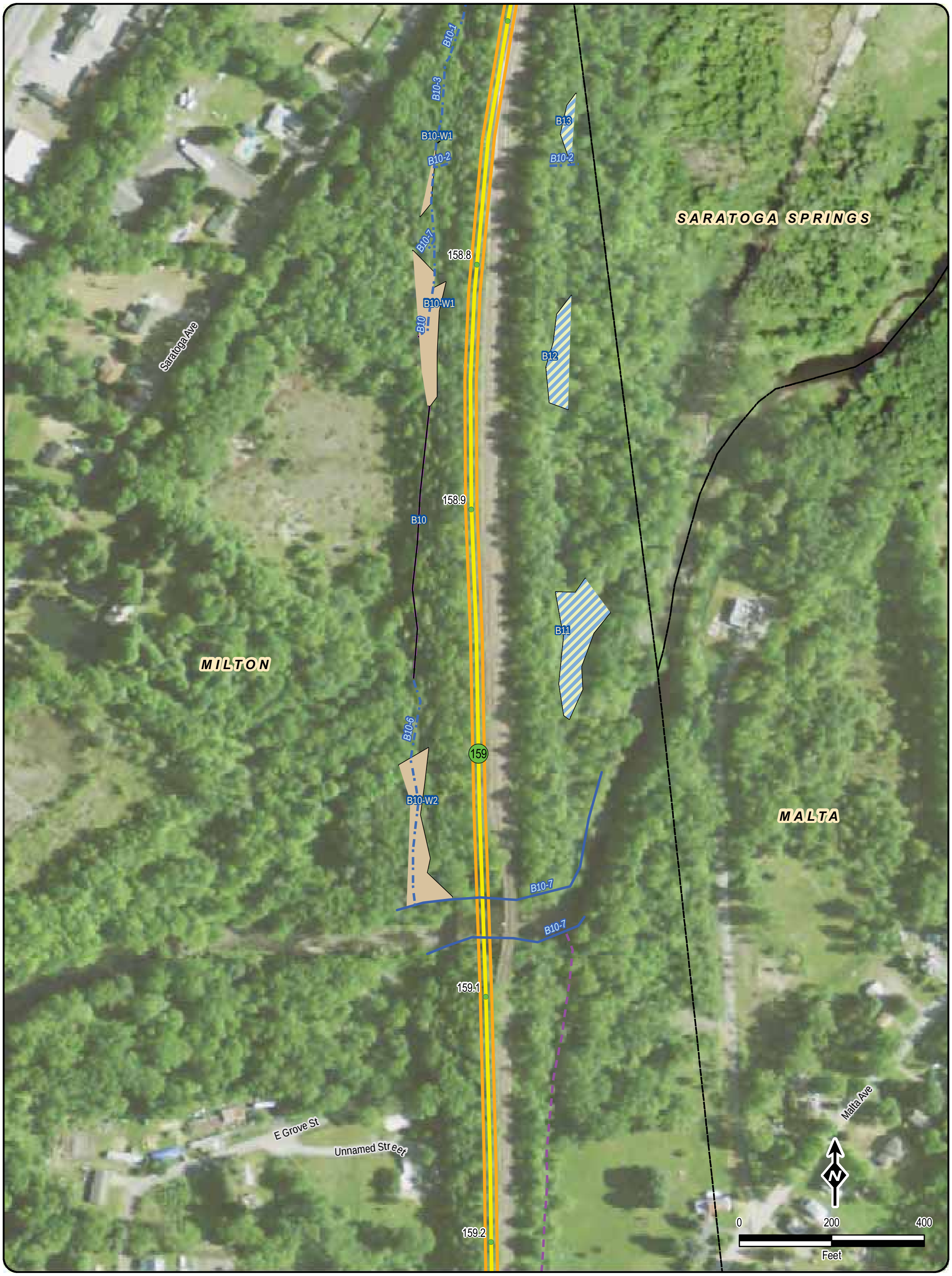
Figure A-1

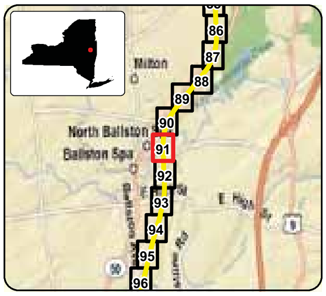
Wetland Delineation Mapping

Sheet 90 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
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- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
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- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

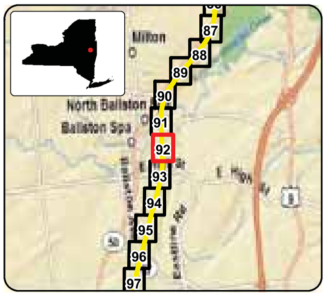
Figure A-1

Wetland Delineation Mapping

Sheet 91 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

Figure A-1

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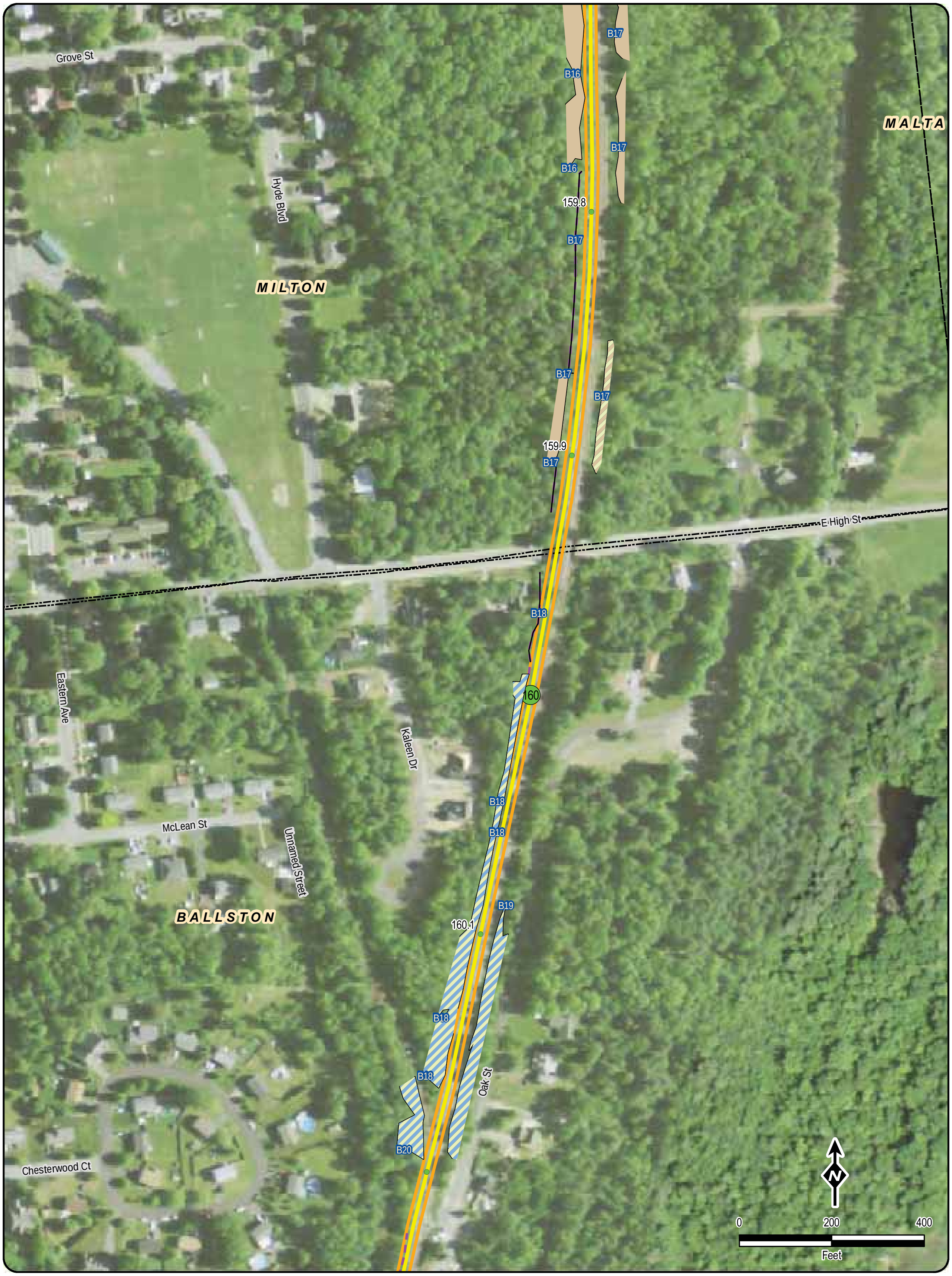
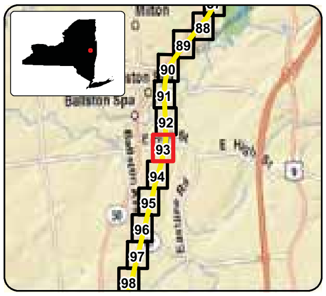
Sheet 92 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

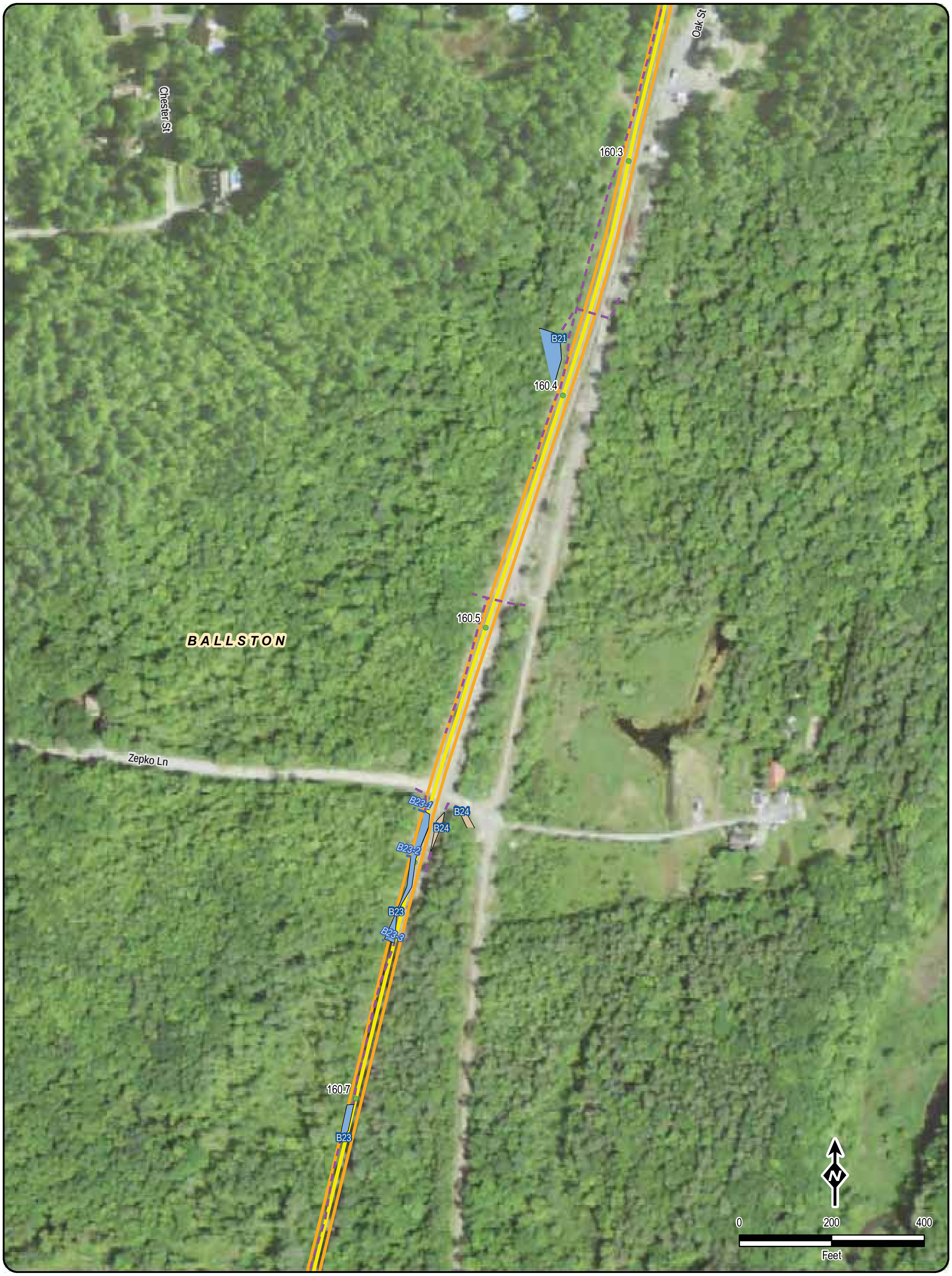
Figure A-1

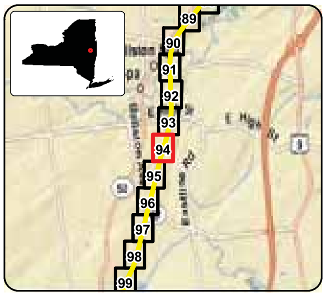
Wetland Delineation Mapping

Sheet 93 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





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Champlain Hudson Power Express Inc.

Figure A-1

Wetland Delineation Mapping

Sheet 94 of 175

Prepared by: HDR & TRC 7/13/2010

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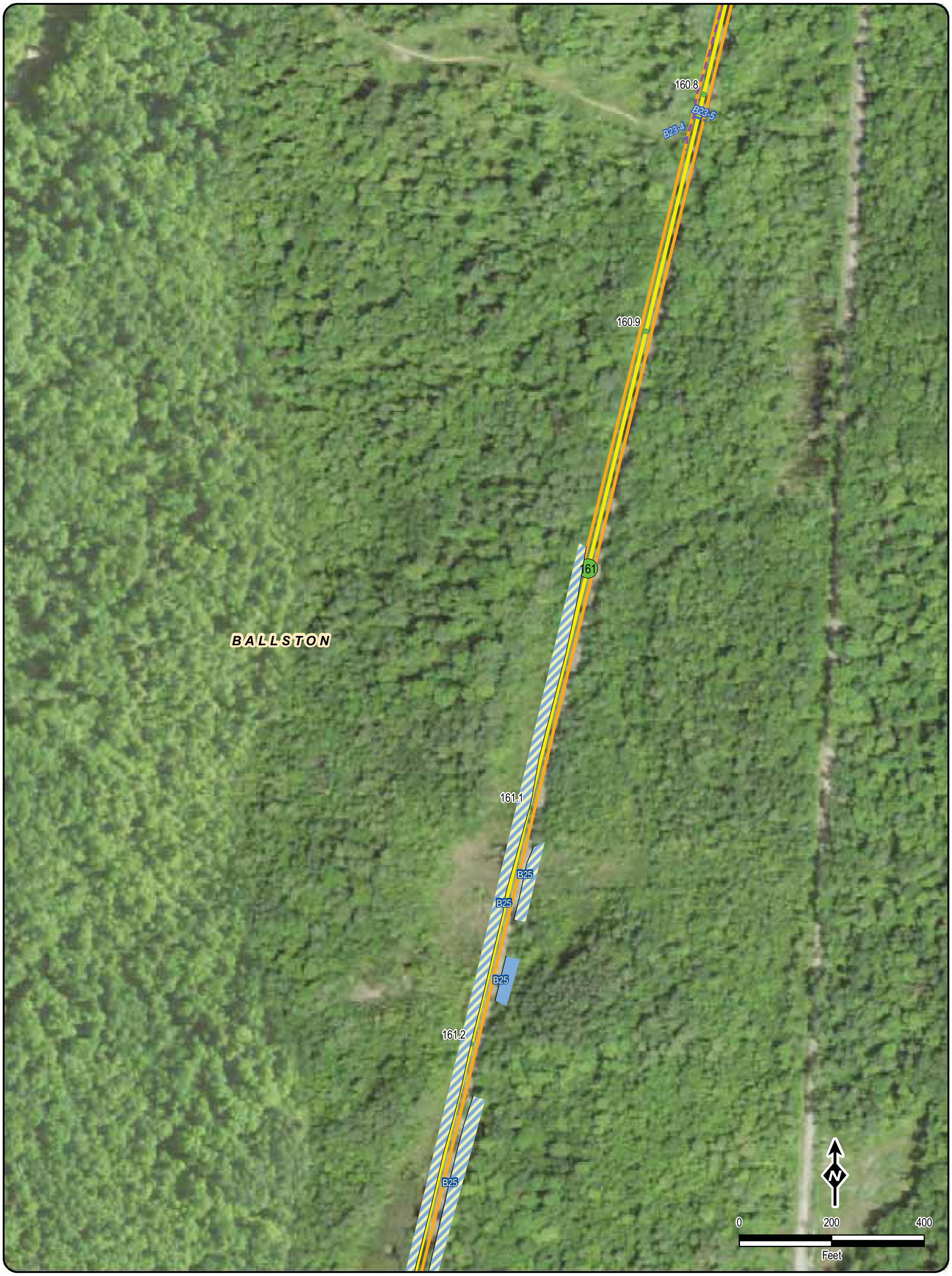

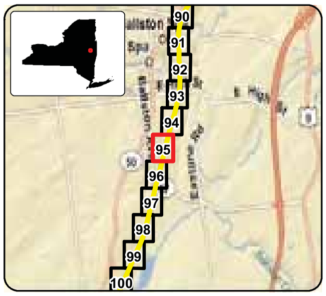

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

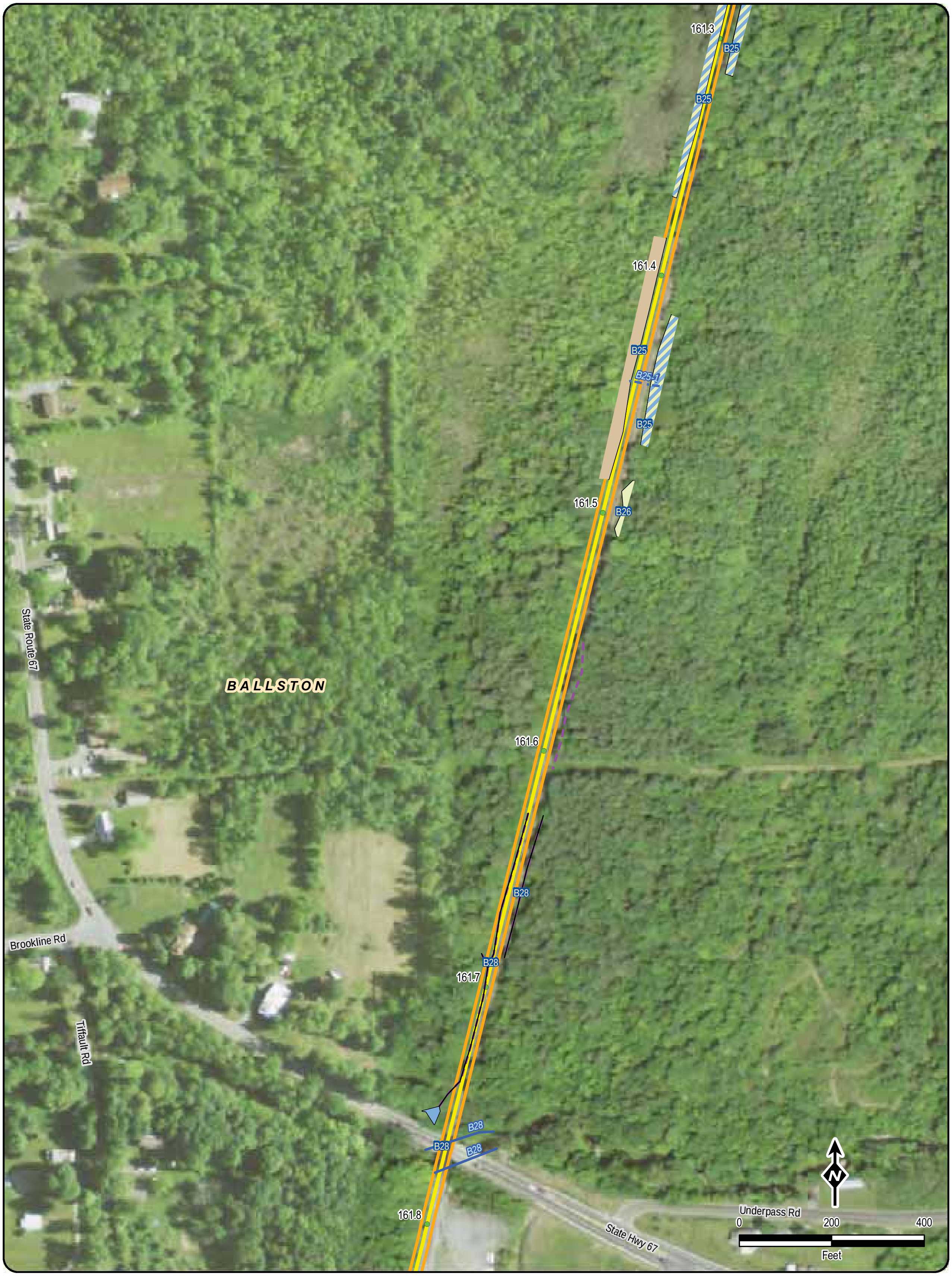
Figure A-1

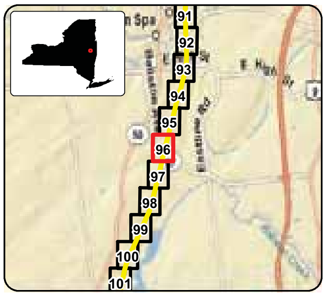
Wetland Delineation Mapping

Sheet 95 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

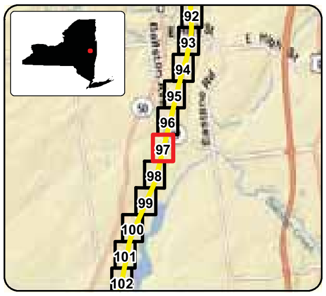
Figure A-1

Wetland Delineation Mapping

Sheet 96 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

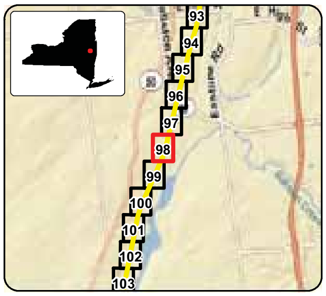
Figure A-1

Wetland Delineation Mapping

Sheet 97 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

Figure A-1

Wetland Delineation Mapping

Sheet 98 of 175

Prepared by: HDR | & TRC 7/13/2010

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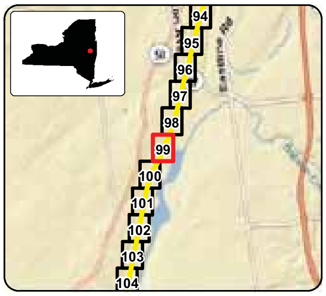

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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

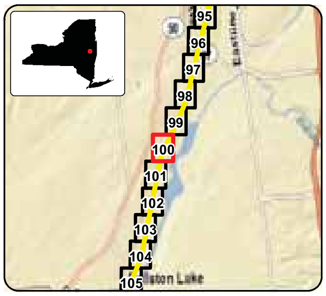
Figure A-1

Wetland Delineation Mapping

Sheet 99 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

Figure A-1

Wetland Delineation Mapping

Sheet 100 of 175

Prepared by: HDR & TRC 7/13/2010

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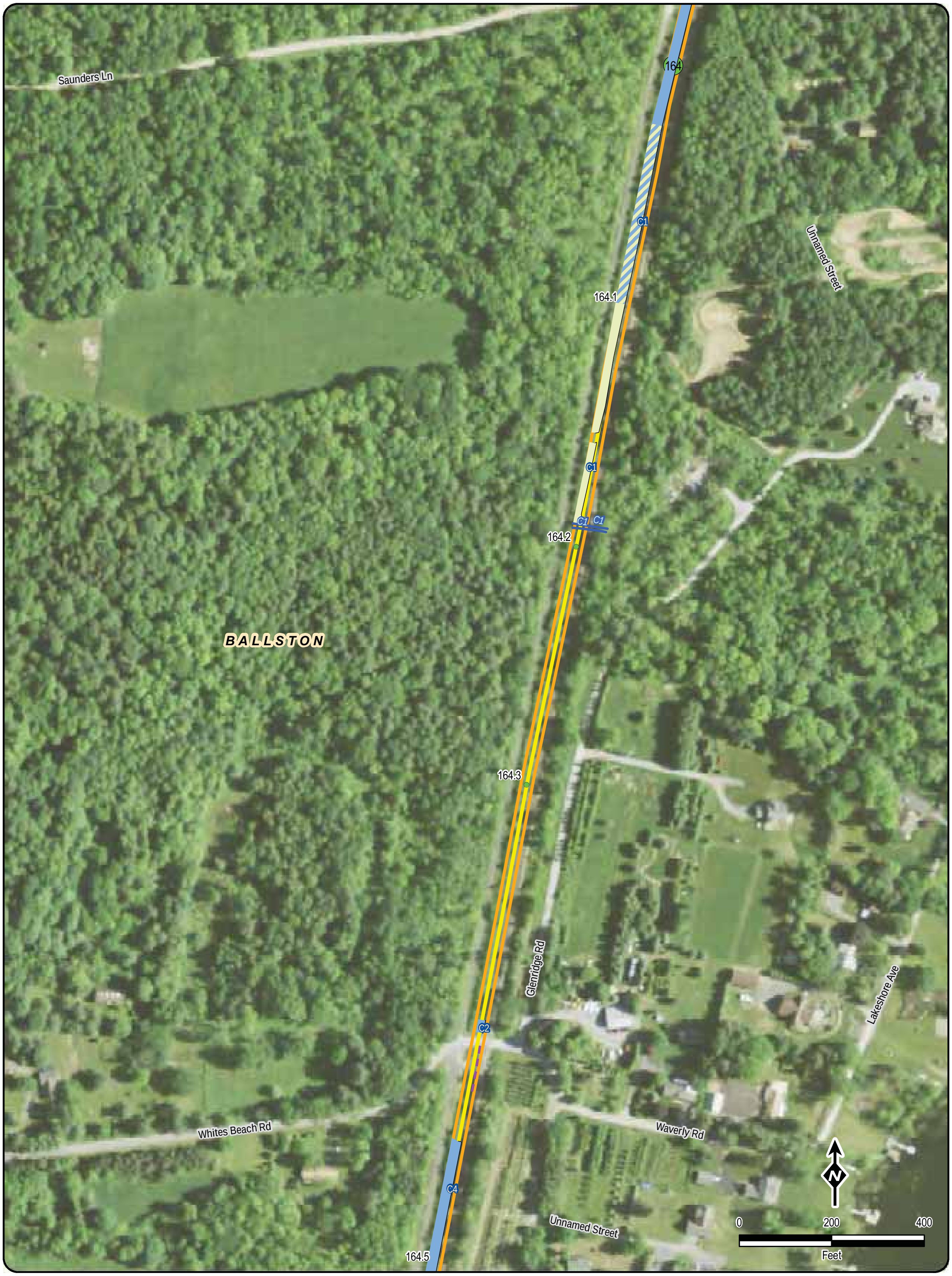

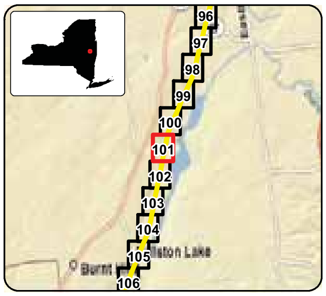

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

Figure A-1

Wetland Delineation Mapping

Sheet 101 of 175

Prepared by: HDR | & TRC 7/13/2010

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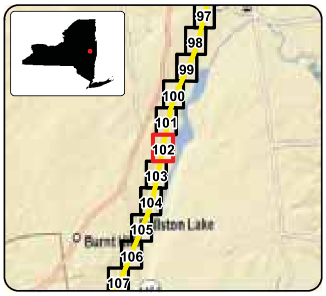

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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

Figure A-1

Wetland Delineation Mapping

Sheet 102 of 175

Prepared by: & 7/13/2010

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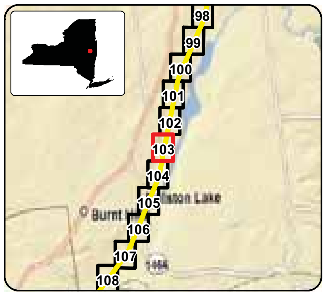

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

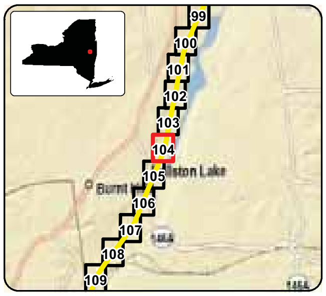
Figure A-1

Wetland Delineation Mapping

Sheet 103 of 175

Prepared by: HDR | CRA & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Champlain Hudson Power Express Inc.

Figure A-1

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Sheet 104 of 175

Prepared by: HDR & TRC 7/13/2010

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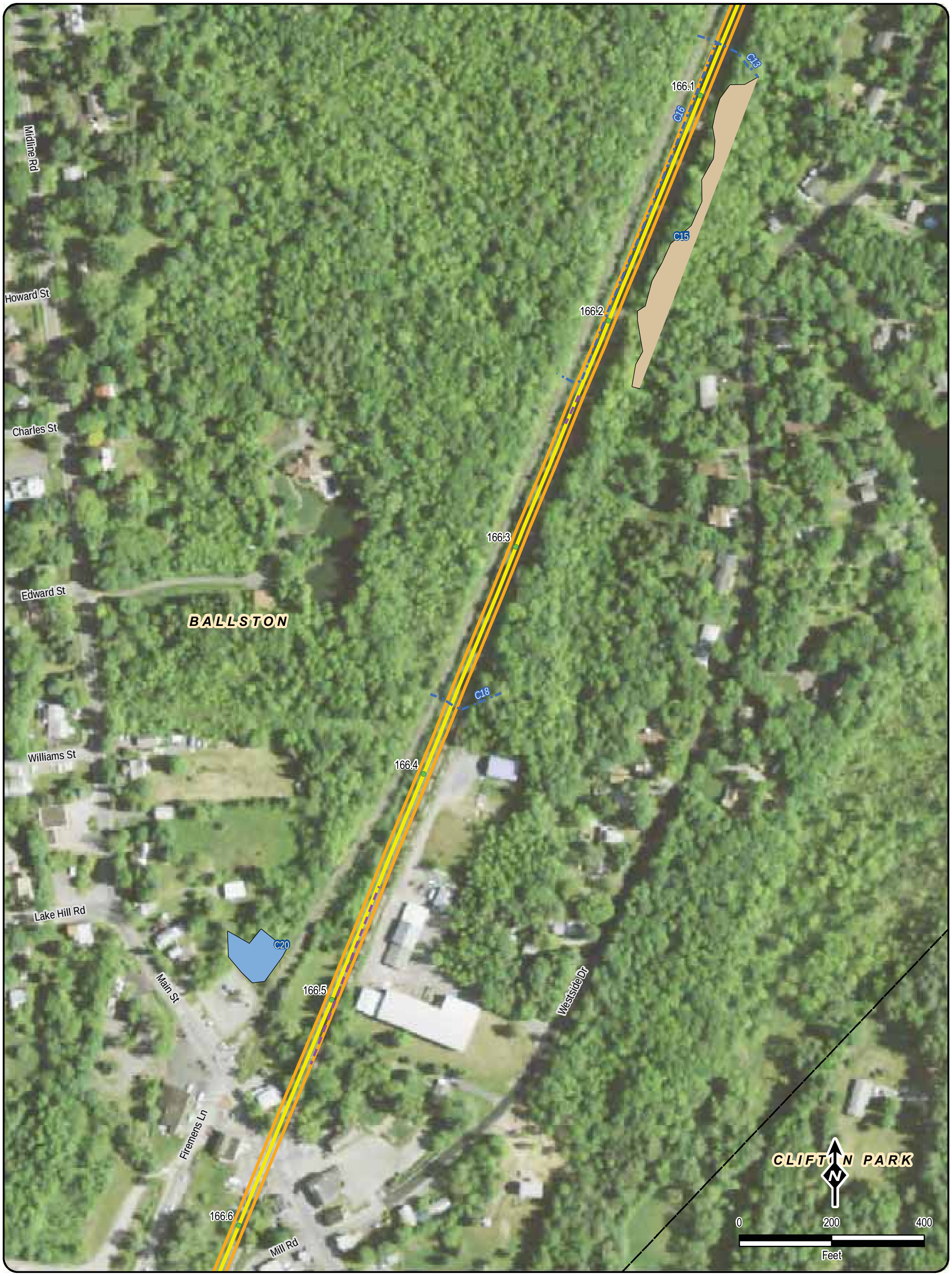

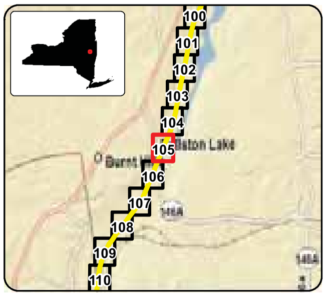

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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

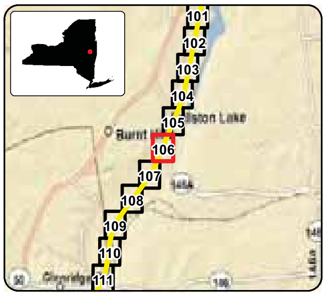
Figure A-1

Wetland Delineation Mapping

Sheet 105 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

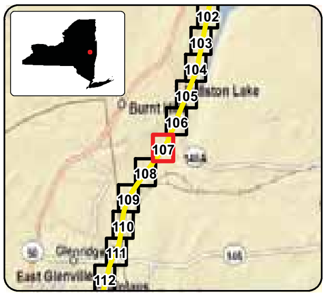
Figure A-1

Wetland Delineation Mapping

Sheet 106 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

Figure A-1

Wetland Delineation Mapping

Sheet 107 of 175

Prepared by: HDR & TRC 7/13/2010

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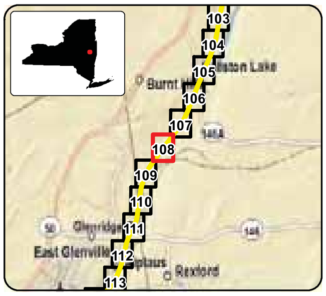

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Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

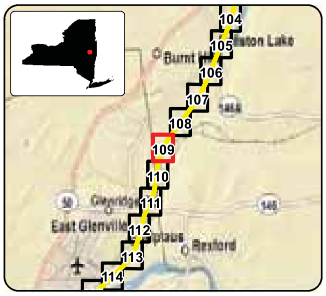
Figure A-1

Wetland Delineation Mapping

Sheet 108 of 175

Prepared by: HDR | VHB & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost

▲ Canal Lock

Proposed CHPEI Route

Construction Corridor

Wetland Delineation Line

Perennial Stream Top of Bank

Intermittent Stream

Ditch

WETLAND ID

STREAM ID

TOWN NAME

🟦 PEM Wetland

🟫 PFO Wetlnad

⬜ PSS Wetland

🟩 POW Wetland

▨ PFO/PEM Wetland

▨ PFO/PSS Wetland

▨ PEM/PSS Wetland

▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

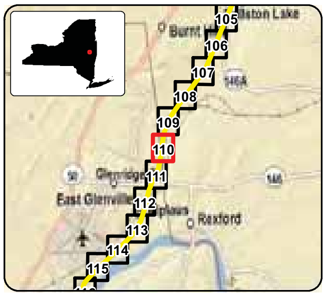
Figure A-1

Wetland Delineation Mapping

Sheet 109 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost
▲ Canal Lock
Proposed CHPEI Route
Construction Corridor
Wetland Delineation Line
Perennial Stream Top of Bank
Intermittent Stream
Ditch
WETLAND ID
STREAM ID
TOWN NAME
PEM Wetland
PFO Wetlnad
PSS Wetland
POW Wetland
PFO/PEM Wetland
PFO/PSS Wetland
PEM/PSS Wetland
POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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PFO	Palustrine Forested
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

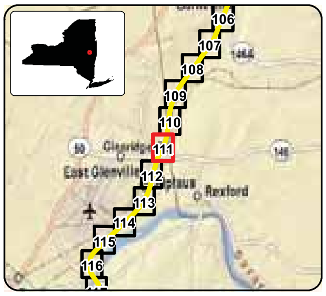
Figure A-1

Wetland Delineation Mapping

Sheet 110 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

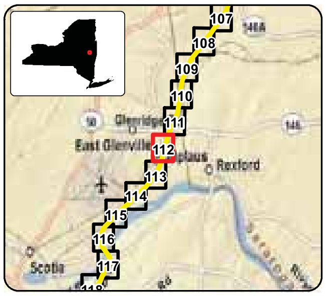
Figure A-1

Wetland Delineation Mapping

Sheet 111 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

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PFO	Palustrine Forested
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

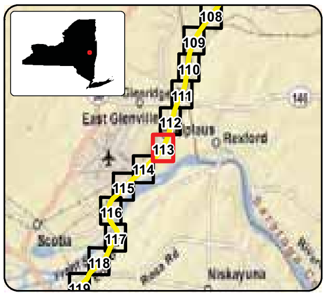
Figure A-1

Wetland Delineation Mapping

Sheet 112 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- 🟨 PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

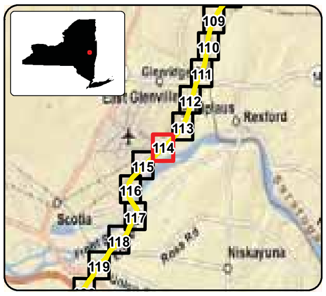
Figure A-1

Wetland Delineation Mapping

Sheet 113 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
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- STREAM ID
- TOWN NAME
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

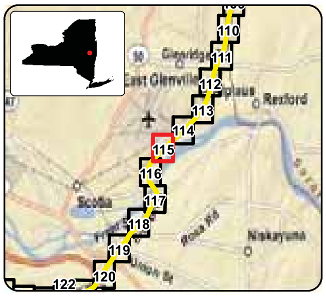
Figure A-1

Wetland Delineation Mapping

Sheet 114 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
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- STREAM ID
- TOWN NAME
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- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

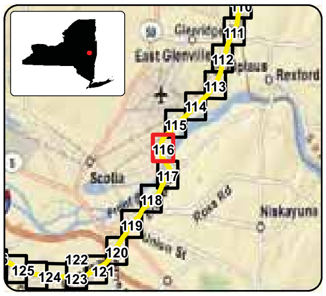
Figure A-1

Wetland Delineation Mapping

Sheet 115 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

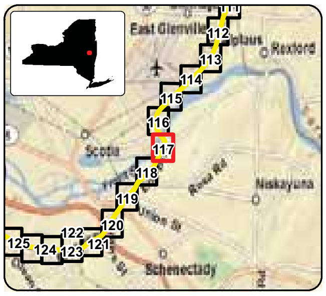
Figure A-1

Wetland Delineation Mapping

Sheet 116 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost

▲ Canal Lock

— Proposed CHPEI Route

— Construction Corridor

— Wetland Delineation Line

— Perennial Stream Top of Bank

- · - Intermittent Stream

- - Ditch

WETLAND ID

STREAM ID

TOWN NAME

🟦 PEM Wetland

🟫 PFO Wetlnad

🟨 PSS Wetland

🟩 POW Wetland

▨ PFO/PEM Wetland

▨ PFO/PSS Wetland

▨ PEM/PSS Wetland

▨ POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

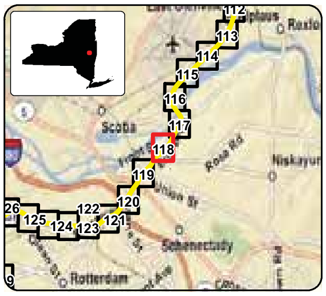
Figure A-1

Wetland Delineation Mapping

Sheet 117 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
━	Proposed CHPEI Route
▭	Construction Corridor
─	Wetland Delineation Line
━	Perennial Stream Top of Bank
-·-	Intermittent Stream
- -	Ditch
	WETLAND ID
	STREAM ID
	TOWN NAME
■	PEM Wetland
■	PFO Wetlnad
■	PSS Wetland
■	POW Wetland
▨	PFO/PEM Wetland
▨	PFO/PSS Wetland
▨	PEM/PSS Wetland
▨	POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

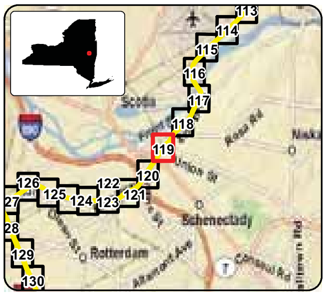
Figure A-1

Wetland Delineation Mapping

Sheet 118 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
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PFO	Palustrine Forested
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

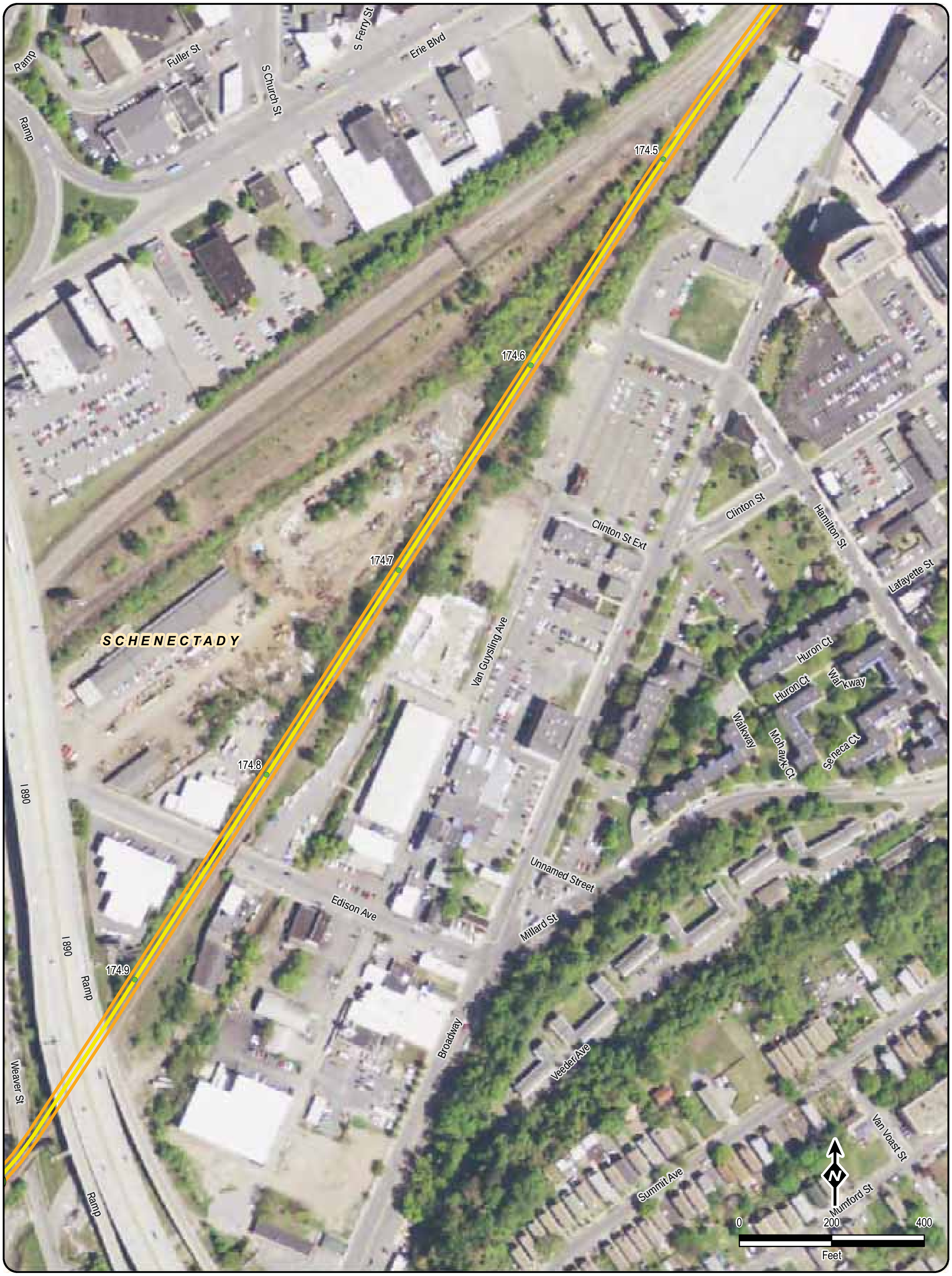
Figure A-1

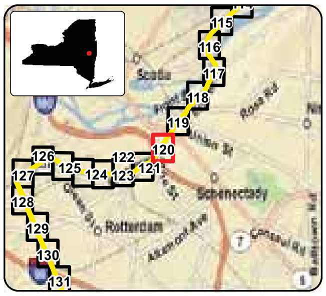
Wetland Delineation Mapping

Sheet 119 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

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PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

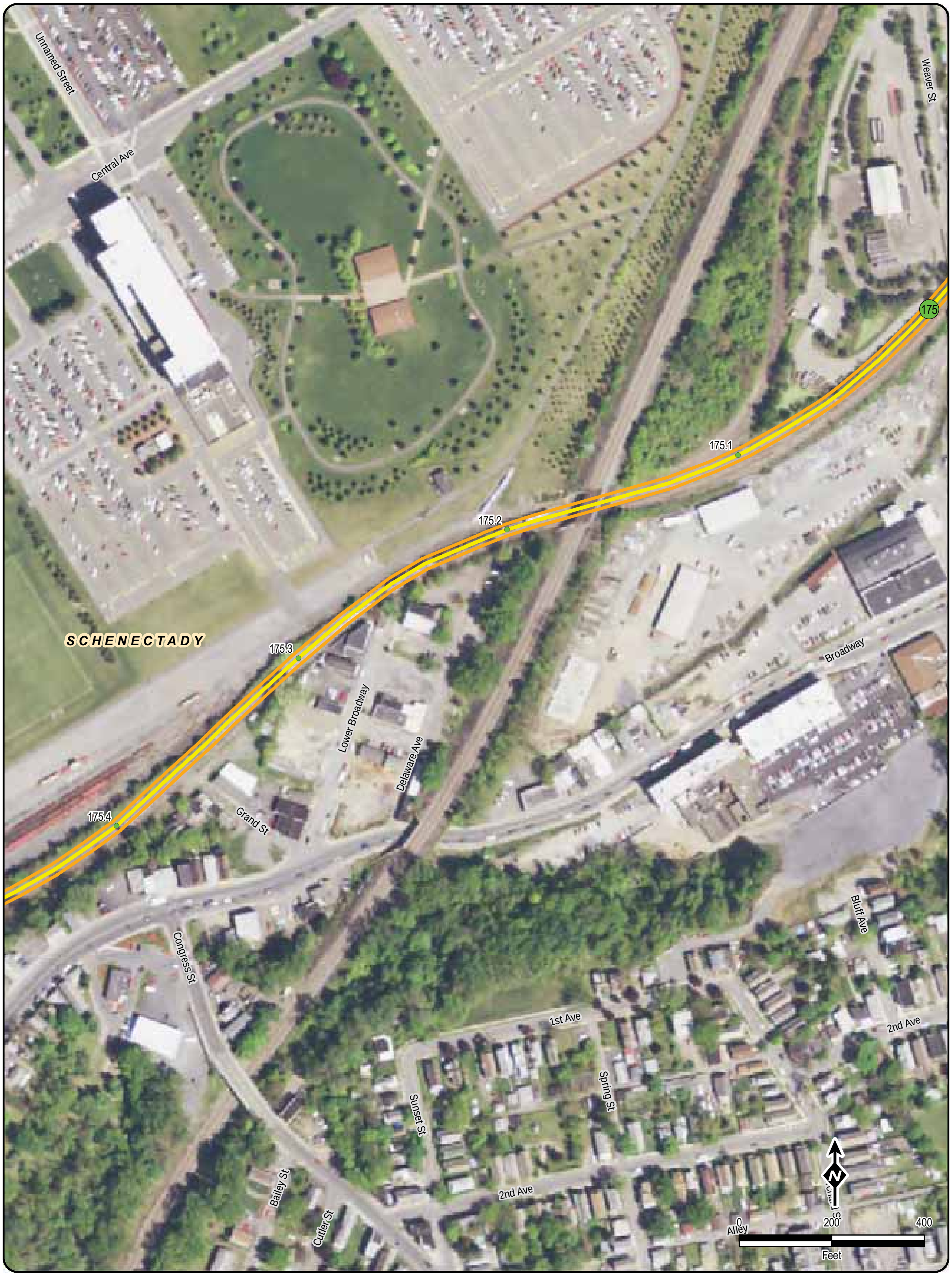
Figure A-1

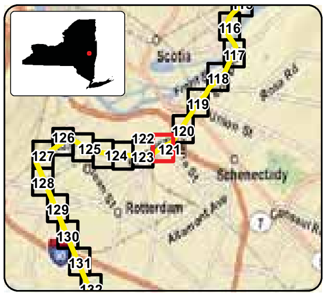
Wetland Delineation Mapping

Sheet 120 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

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PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

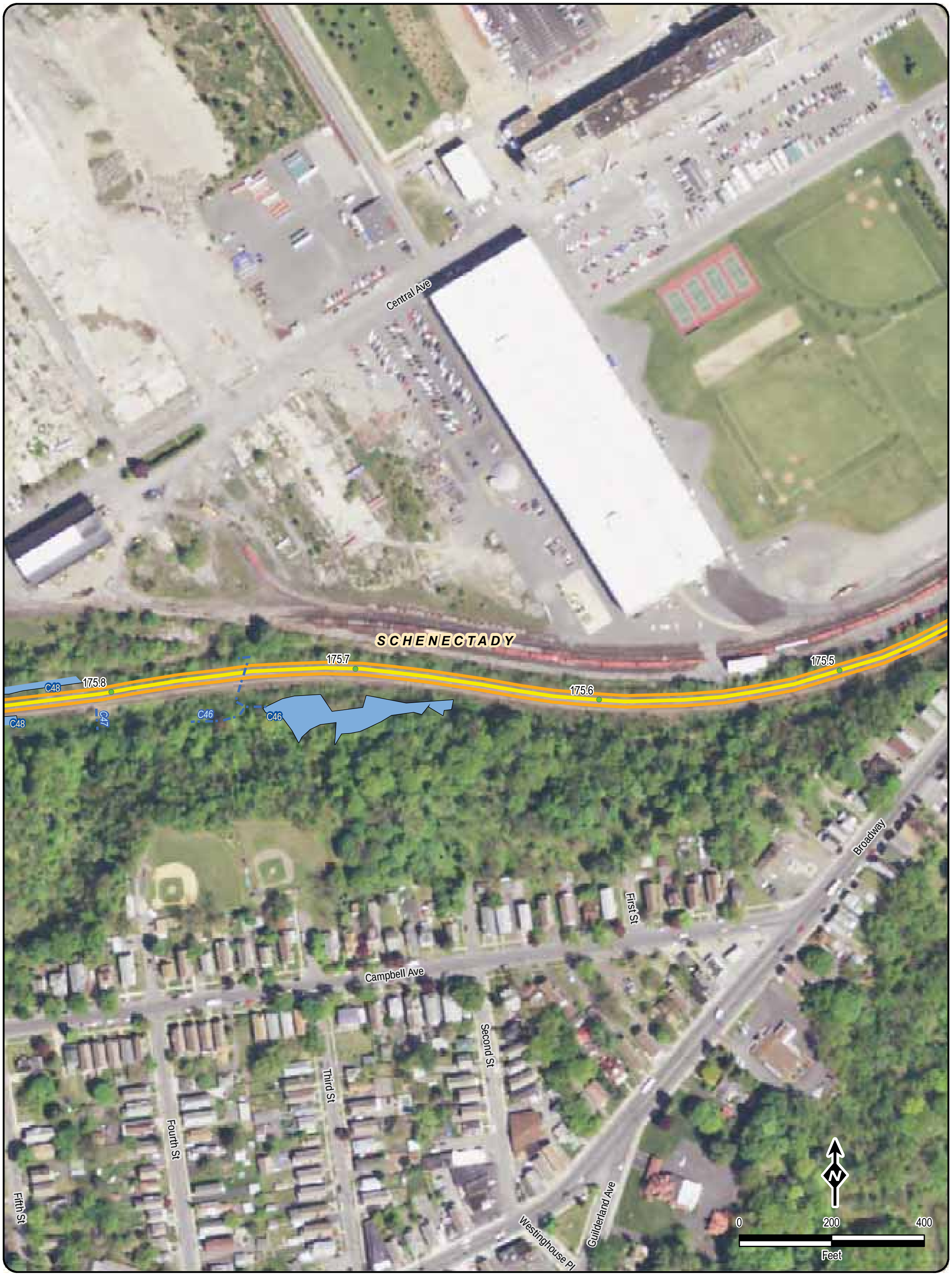
Figure A-1

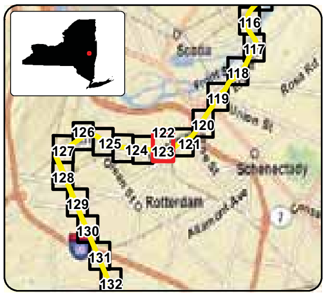
Wetland Delineation Mapping

Sheet 121 of 175

Prepared by: HDR | TETRA & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ⬜ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
PEM	Palustrine Emergent
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

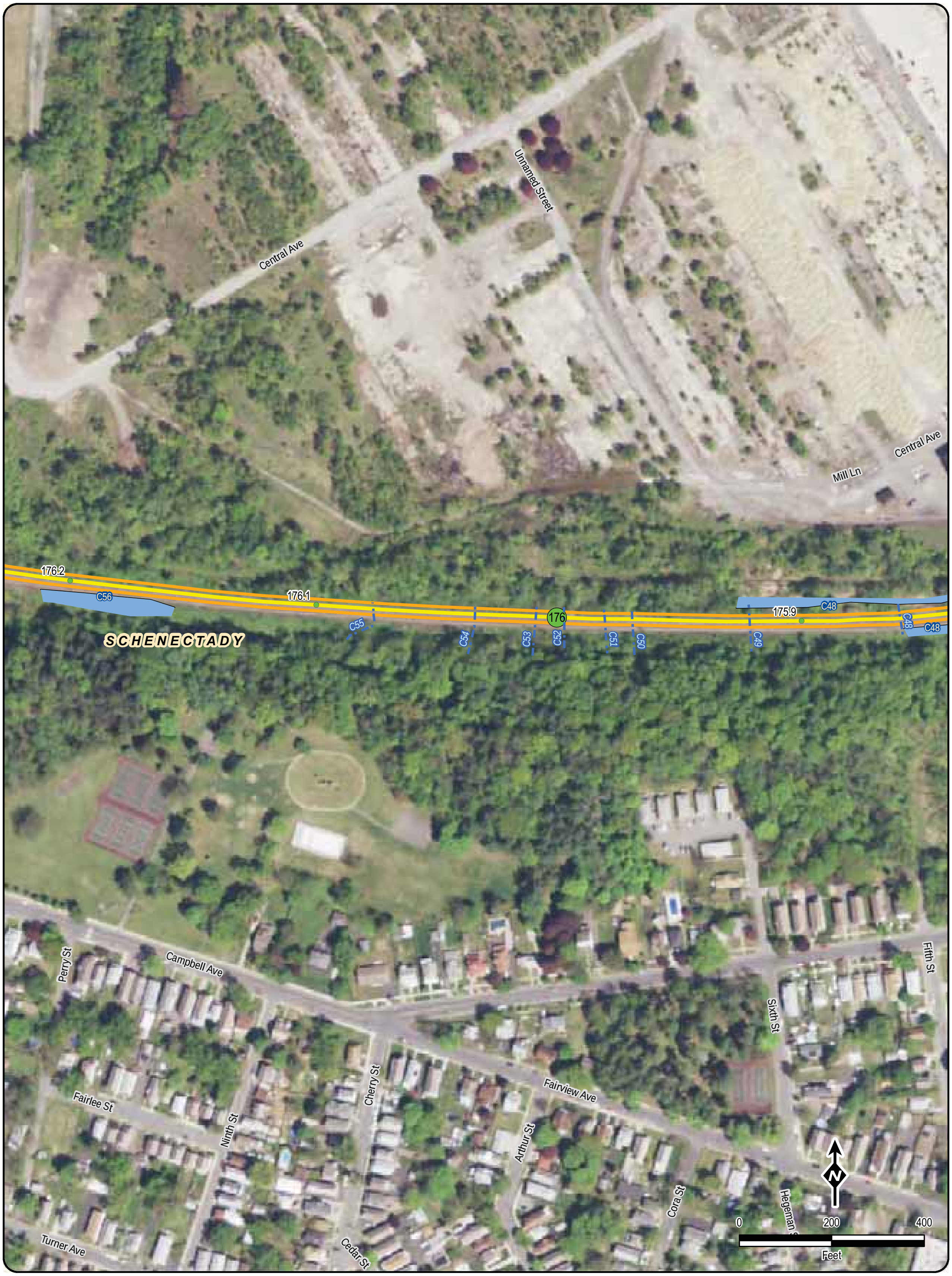
Figure A-1

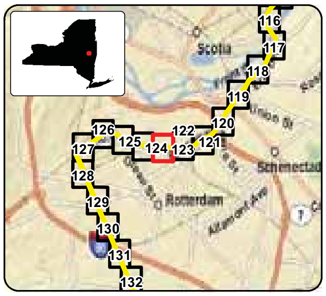
Wetland Delineation Mapping

Sheet 122 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
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POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

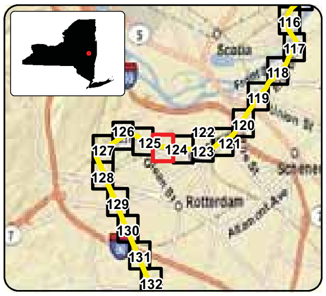
Figure A-1

Wetland Delineation Mapping

Sheet 123 of 175

Prepared by: HDR | TETRA TECH & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
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- TOWN NAME
- PEM Wetland
- PFO Wetlnad
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Cover Type	Description
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

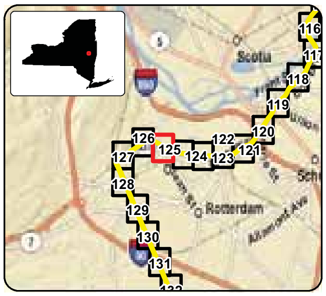
Figure A-1

Wetland Delineation Mapping

Sheet 124 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

●	Milepost
▲	Canal Lock
—	Proposed CHPEI Route
☐	Construction Corridor
—	Wetland Delineation Line
—	Perennial Stream Top of Bank
- · -	Intermittent Stream
- -	Ditch
	WETLAND ID
	STREAM ID
	TOWN NAME
■	PEM Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

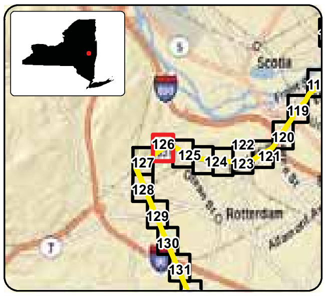
Figure A-1

Wetland Delineation Mapping

Sheet 125 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- – – Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

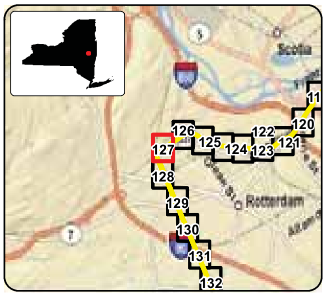
Figure A-1

Wetland Delineation Mapping

Sheet 126 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
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- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

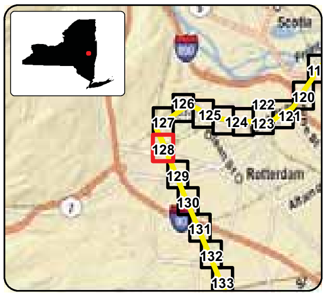
Figure A-1

Wetland Delineation Mapping

Sheet 127 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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- Construction Corridor
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Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

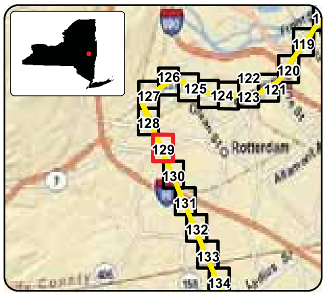
Figure A-1

Wetland Delineation Mapping

Sheet 128 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

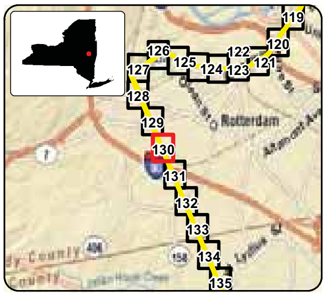
Figure A-1

Wetland Delineation Mapping

Sheet 129 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

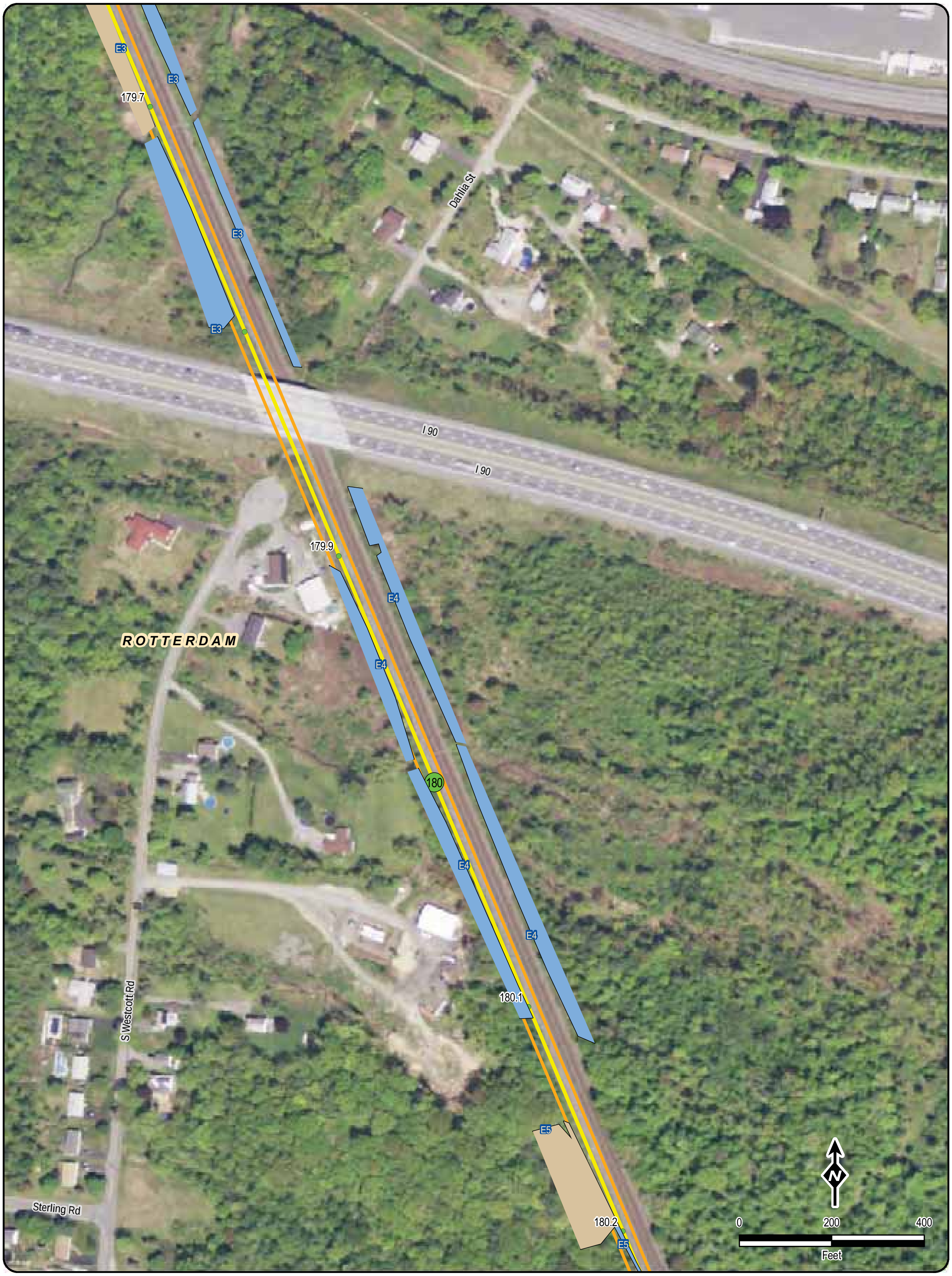
Figure A-1

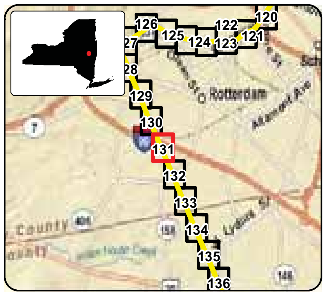
Wetland Delineation Mapping

Sheet 130 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ⬜ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
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PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

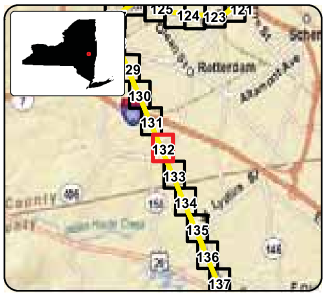
Figure A-1

Wetland Delineation Mapping

Sheet 131 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
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- ▨ PEM/PSS Wetland
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Cover Type	Description
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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

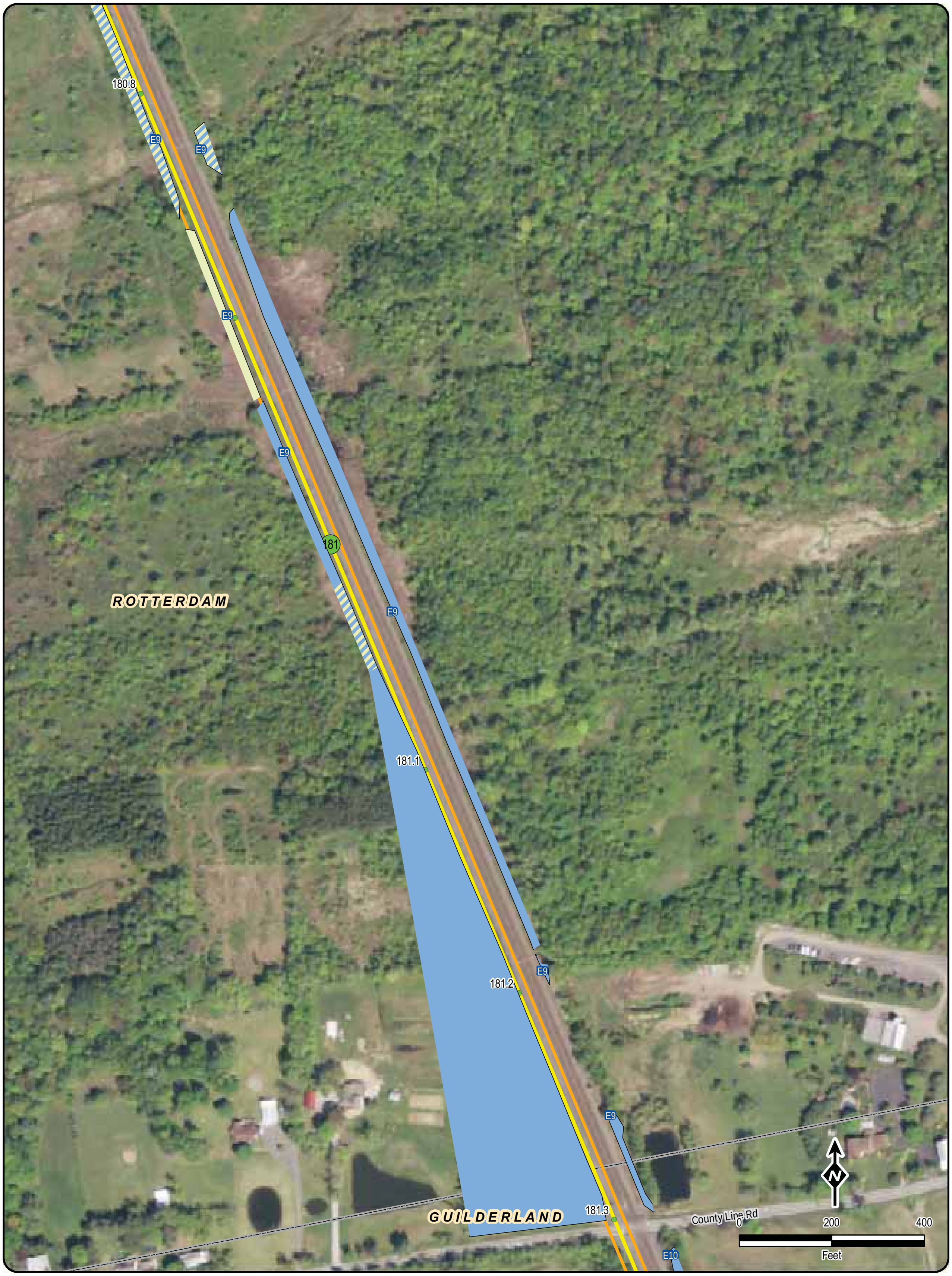
Figure A-1

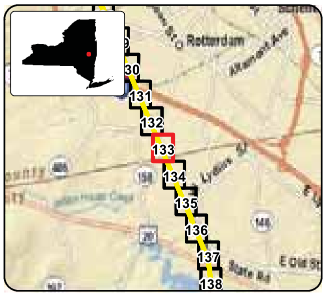
Wetland Delineation Mapping

Sheet 132 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
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- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
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- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

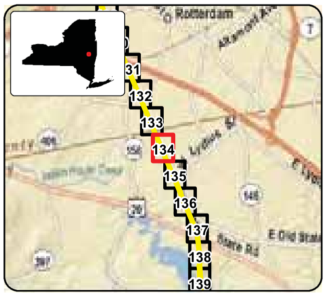
Figure A-1

Wetland Delineation Mapping

Sheet 133 of 175

Prepared by: HDR | [illegible] & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
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- STREAM ID
- TOWN NAME

- 🟦 PEM Wetland
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- 🟩 POW Wetland
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- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

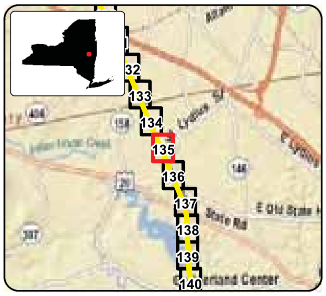
Figure A-1

Wetland Delineation Mapping

Sheet 134 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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- Construction Corridor
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- Intermittent Stream
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- STREAM ID
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- PFO Wetlnad
- PSS Wetland
- POW Wetland
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- PFO/PSS Wetland
- PEM/PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

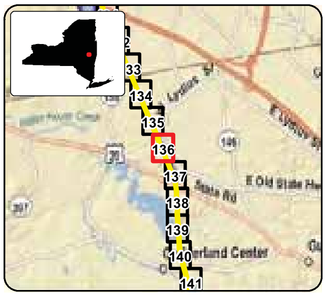
Figure A-1

Wetland Delineation Mapping

Sheet 135 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
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- ■ PSS Wetland
- ■ POW Wetland
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- ▨ PEM/PSS Wetland
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Cover Type	Description
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

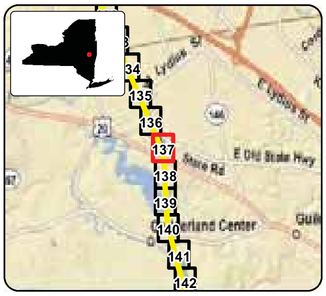
Figure A-1

Wetland Delineation Mapping

Sheet 136 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost
▲ Canal Lock
— Proposed CHPEI Route
▭ Construction Corridor
— Wetland Delineation Line
— Perennial Stream Top of Bank
- · - Intermittent Stream
- - Ditch
WETLAND ID
STREAM ID
TOWN NAME

■ PEM Wetland
■ PFO Wetlnad
■ PSS Wetland
■ POW Wetland
▨ PFO/PEM Wetland
▨ PFO/PSS Wetland
▨ PEM/PSS Wetland
▨ POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

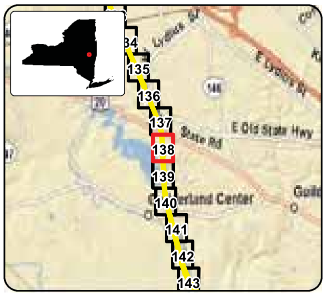
Figure A-1

Wetland Delineation Mapping

Sheet 137 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
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- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
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- STREAM ID
- TOWN NAME

- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

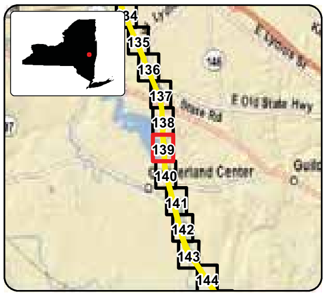
Figure A-1

Wetland Delineation Mapping

Sheet 138 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ─ · ─ Intermittent Stream
- ‒ ‒ Ditch
- **WETLAND ID**
- ***STREAM ID***
- ***TOWN NAME***
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

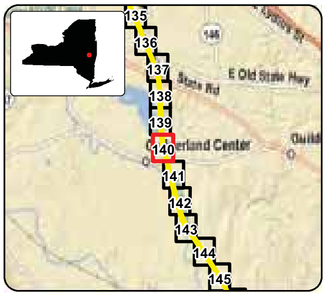
Figure A-1

Wetland Delineation Mapping

Sheet 139 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
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- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

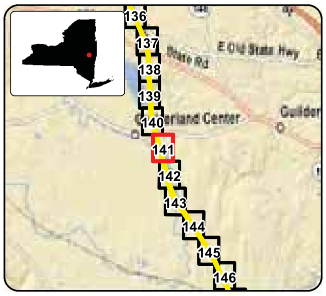
Figure A-1

Wetland Delineation Mapping

Sheet 140 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**

- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

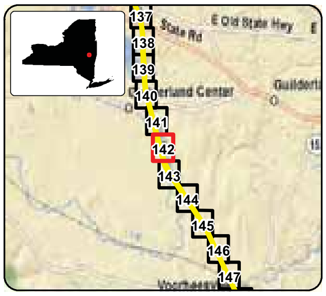
Figure A-1

Wetland Delineation Mapping

Sheet 141 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
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- TOWN NAME
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Cover Type	Description
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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

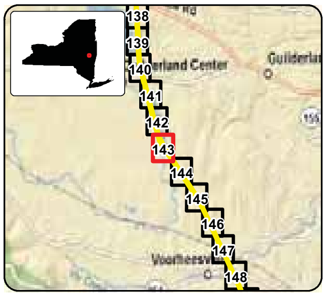
Figure A-1

Wetland Delineation Mapping

Sheet 142 of 175

Prepared by: HDR | [illegible] & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ― Wetland Delineation Line
- ━ Perennial Stream Top of Bank
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- STREAM ID
- TOWN NAME
- ■ PEM Wetland
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- ■ POW Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

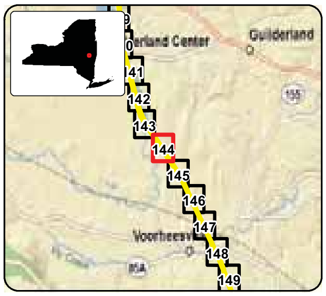
Figure A-1

Wetland Delineation Mapping

Sheet 143 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

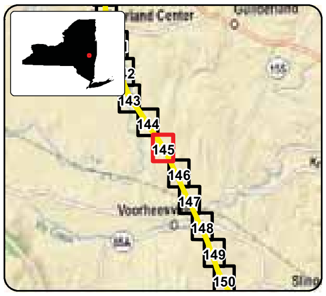
Figure A-1

Wetland Delineation Mapping

Sheet 144 of 175

Prepared by: HDR | E&A & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost
▲ Canal Lock
— Proposed CHPEI Route
▭ Construction Corridor
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— Perennial Stream Top of Bank
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STREAM ID
TOWN NAME

🟦 PEM Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

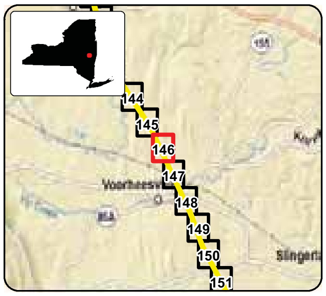
Figure A-1

Wetland Delineation Mapping

Sheet 145 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

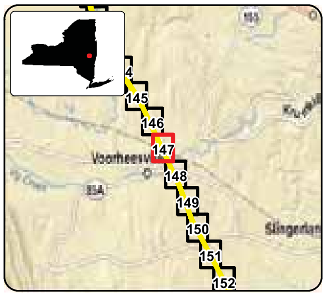
Figure A-1

Wetland Delineation Mapping

Sheet 146 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

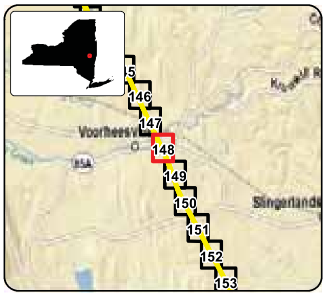
Figure A-1

Wetland Delineation Mapping

Sheet 147 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

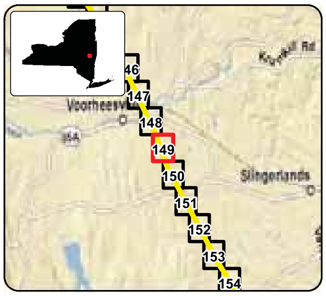
Figure A-1

Wetland Delineation Mapping

Sheet 148 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

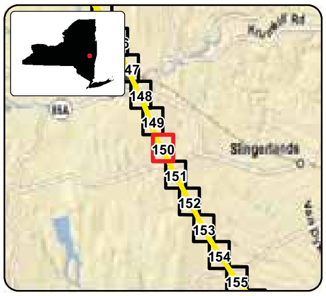
Figure A-1

Wetland Delineation Mapping

Sheet 149 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- *STREAM ID*
- *TOWN NAME*

- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

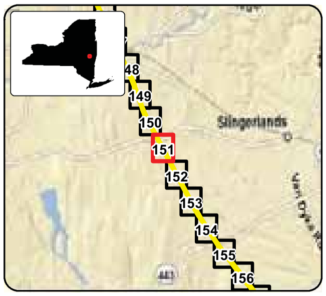
Figure A-1

Wetland Delineation Mapping

Sheet 150 of 175

Prepared by: HDR | CPA & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
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- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
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Cover Type	Description
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PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

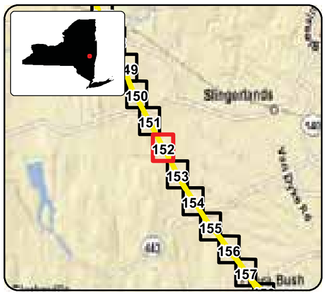
Figure A-1

Wetland Delineation Mapping

Sheet 151 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
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- STREAM ID
- TOWN NAME
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- PFO Wetlnad
- PSS Wetland
- POW Wetland
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- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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PSS	Palustrine Scrub-Shrub
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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

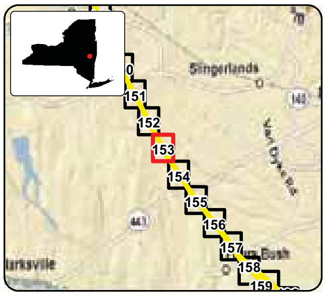
Figure A-1

Wetland Delineation Mapping

Sheet 152 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
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- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

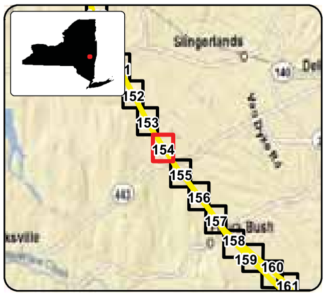
Figure A-1

Wetland Delineation Mapping

Sheet 153 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

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- ▲ Canal Lock
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- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

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- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

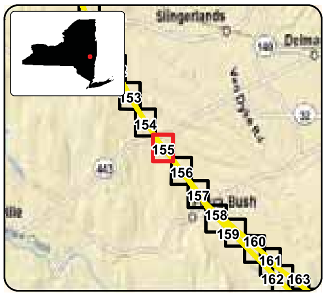
Figure A-1

Wetland Delineation Mapping

Sheet 154 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‒ · ‒ Intermittent Stream
- ‒ ‒ Ditch
- **WETLAND ID**
- ***STREAM ID***
- ***TOWN NAME***
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▭ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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PEM	Palustrine Emergent
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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

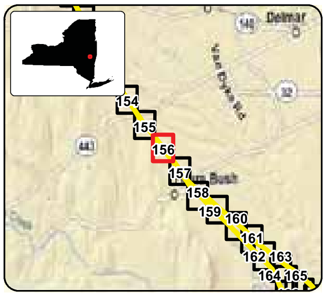
Figure A-1

Wetland Delineation Mapping

Sheet 155 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ─ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ─ · ─ Intermittent Stream
- ─ ─ Ditch
- **WETLAND ID**
- ***STREAM ID***
- ***TOWN NAME***
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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PEM	Palustrine Emergent
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

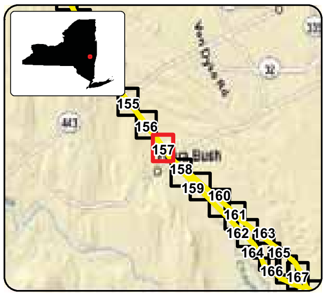
Figure A-1

Wetland Delineation Mapping

Sheet 156 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

● Milepost

▲ Canal Lock

— Proposed CHPEI Route

▭ Construction Corridor

— Wetland Delineation Line

— Perennial Stream Top of Bank

- - Intermittent Stream

- - Ditch

WETLAND ID

STREAM ID

TOWN NAME

🟦 PEM Wetland

🟫 PFO Wetlnad

▭ PSS Wetland

🟩 POW Wetland

▨ PFO/PEM Wetland

▨ PFO/PSS Wetland

▨ PEM/PSS Wetland

▨ POW/PSS Wetland

Cover Type	Description
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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

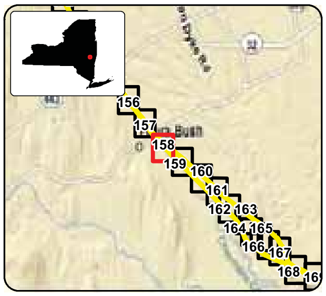
Figure A-1

Wetland Delineation Mapping

Sheet 157 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- ■ PEM Wetland
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- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

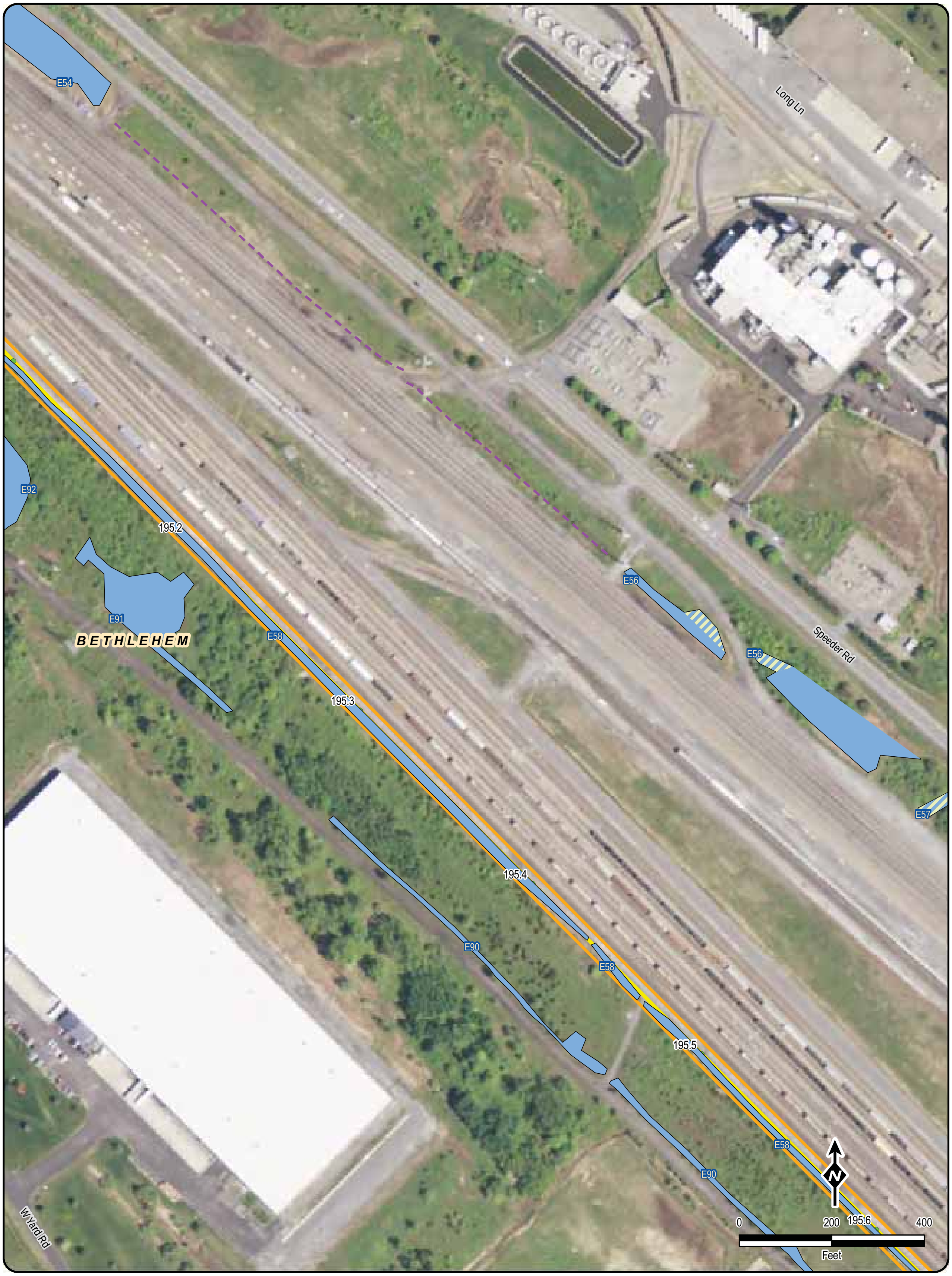
Figure A-1

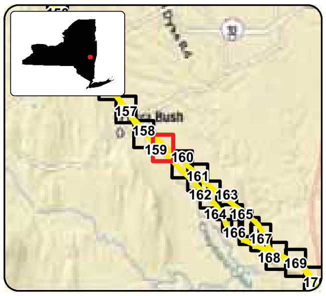
Wetland Delineation Mapping

Sheet 158 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
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- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
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- ▨ PSS Wetland
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Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

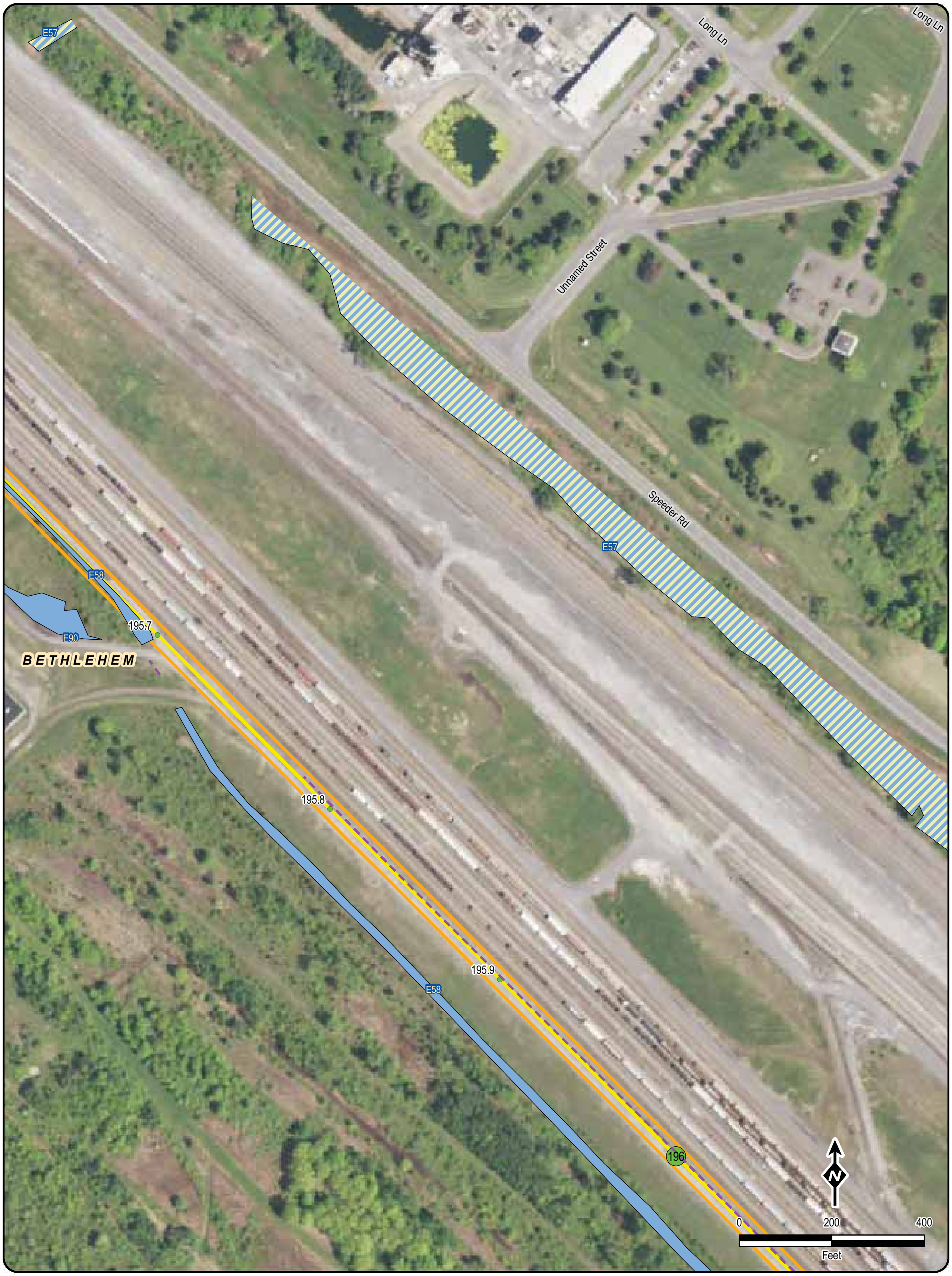
Figure A-1

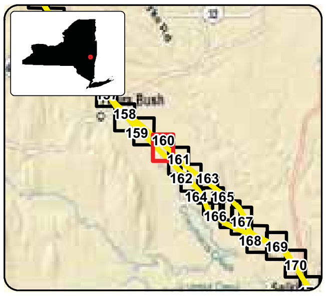
Wetland Delineation Mapping

Sheet 159 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
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- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
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- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

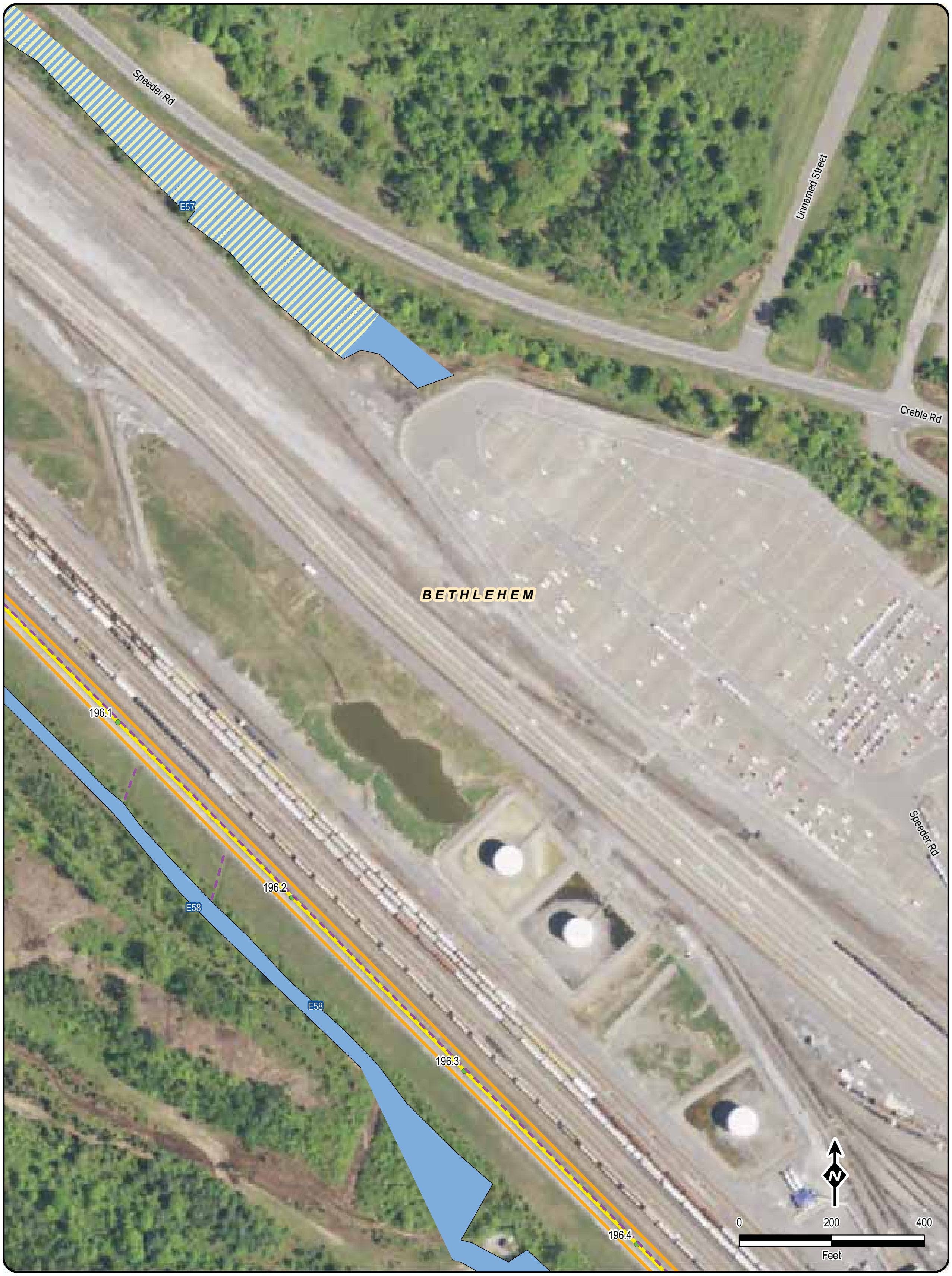
Figure A-1

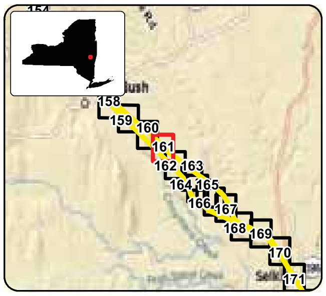
Wetland Delineation Mapping

Sheet 160 of 175

Prepared by: HDR | Vita & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ━ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ─·─ Intermittent Stream
- – – Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**

- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
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Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

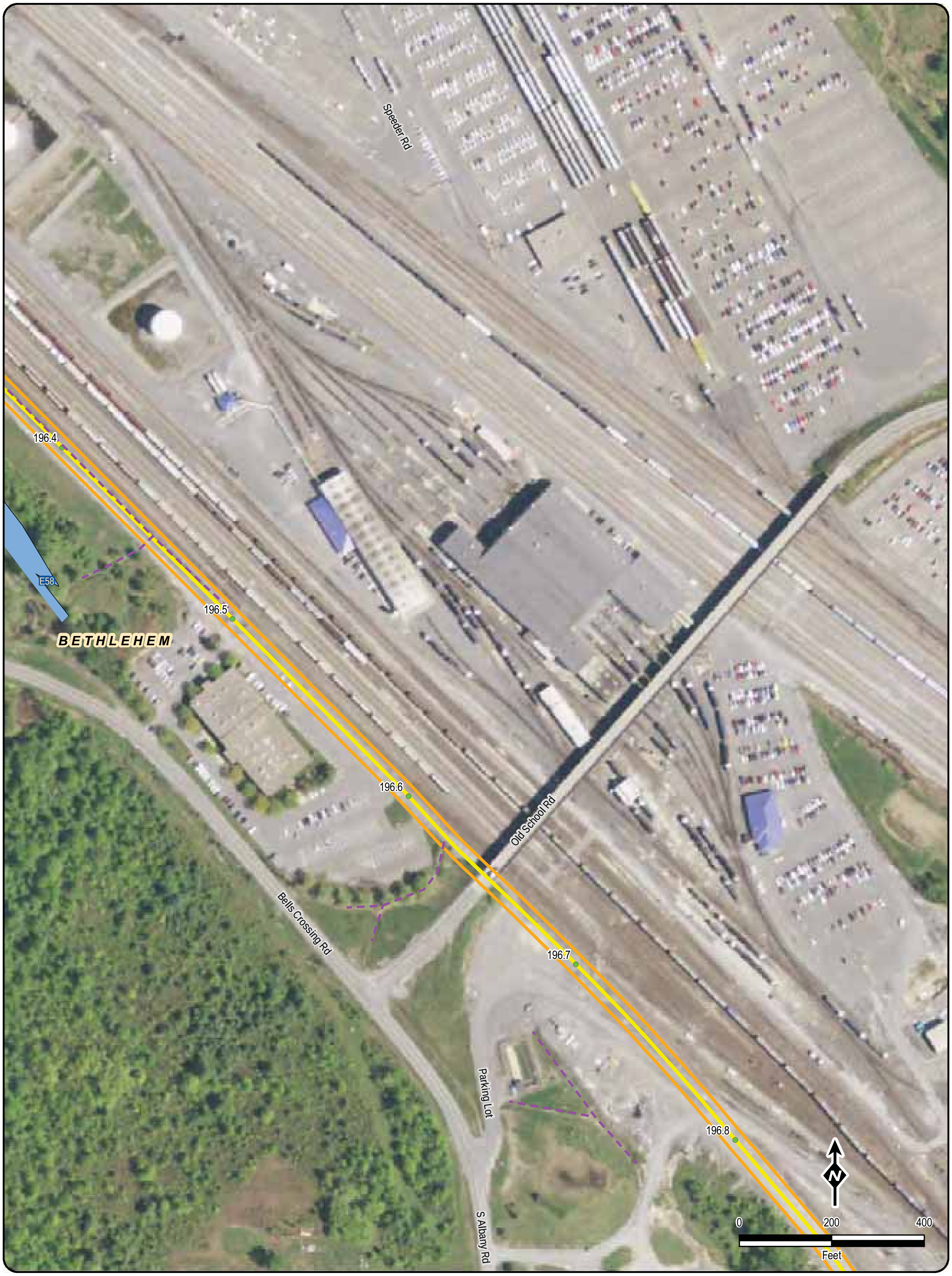
Figure A-1

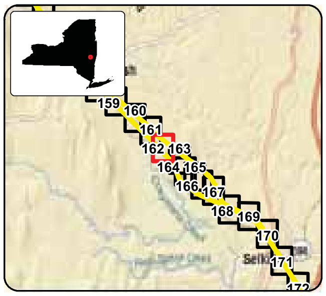
Wetland Delineation Mapping

Sheet 161 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- ▭ Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
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- PSS Wetland
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

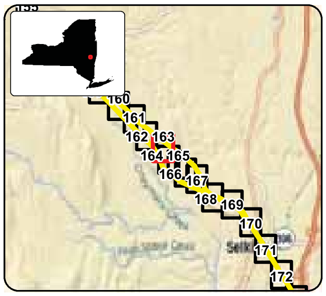
Figure A-1

Wetland Delineation Mapping

Sheet 162 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
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Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

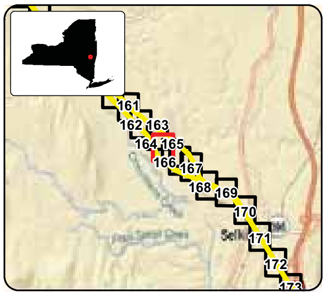
Figure A-1

Wetland Delineation Mapping

Sheet 163 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
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- — Proposed CHPEI Route
- ▭ Construction Corridor
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

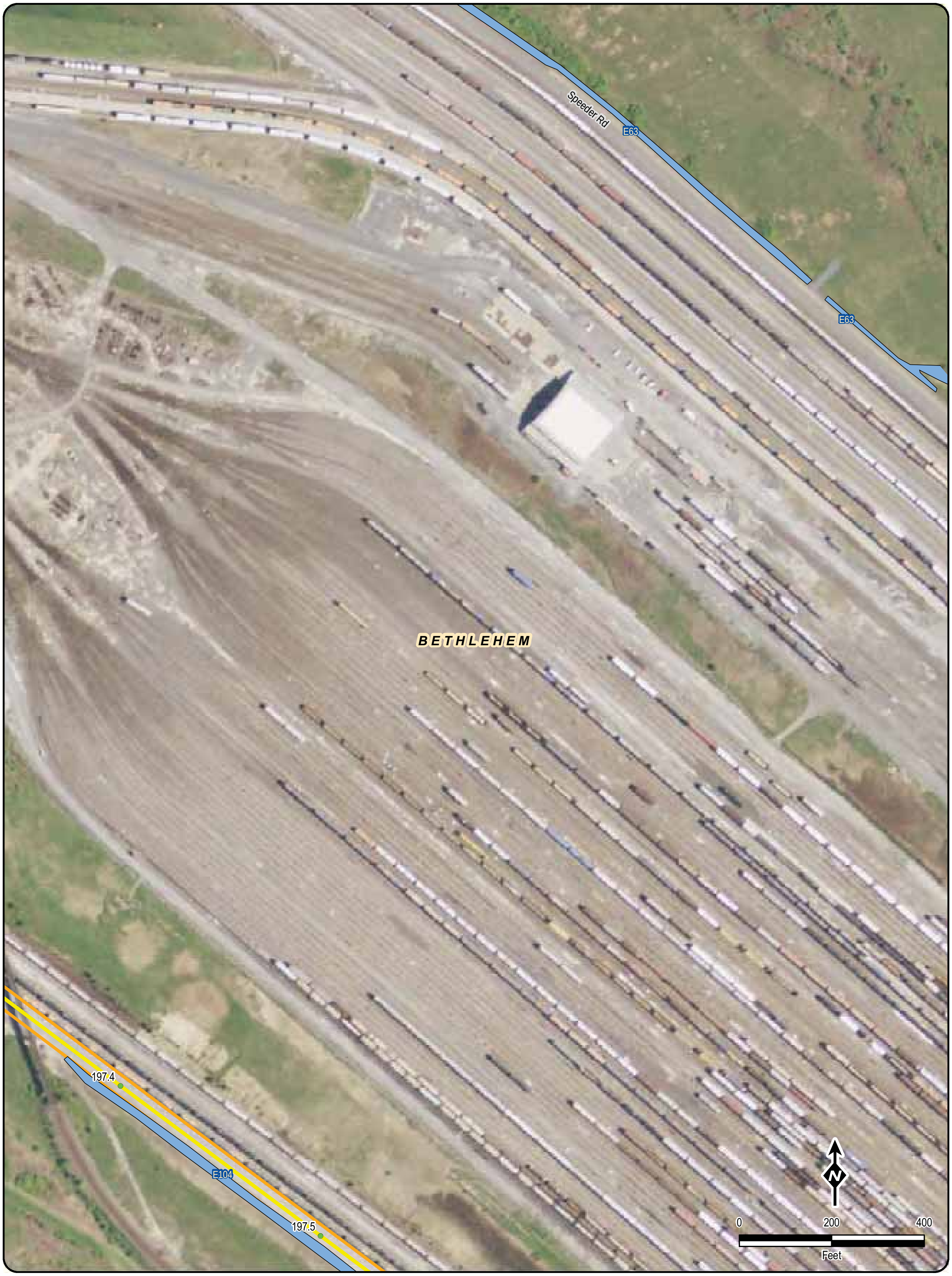
Figure A-1

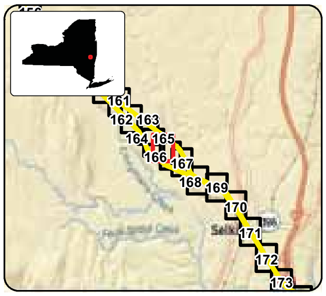
Wetland Delineation Mapping

Sheet 164 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

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- Wetland Delineation Line
- Perennial Stream Top of Bank
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- STREAM ID
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- ▨ PEM/PSS Wetland
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

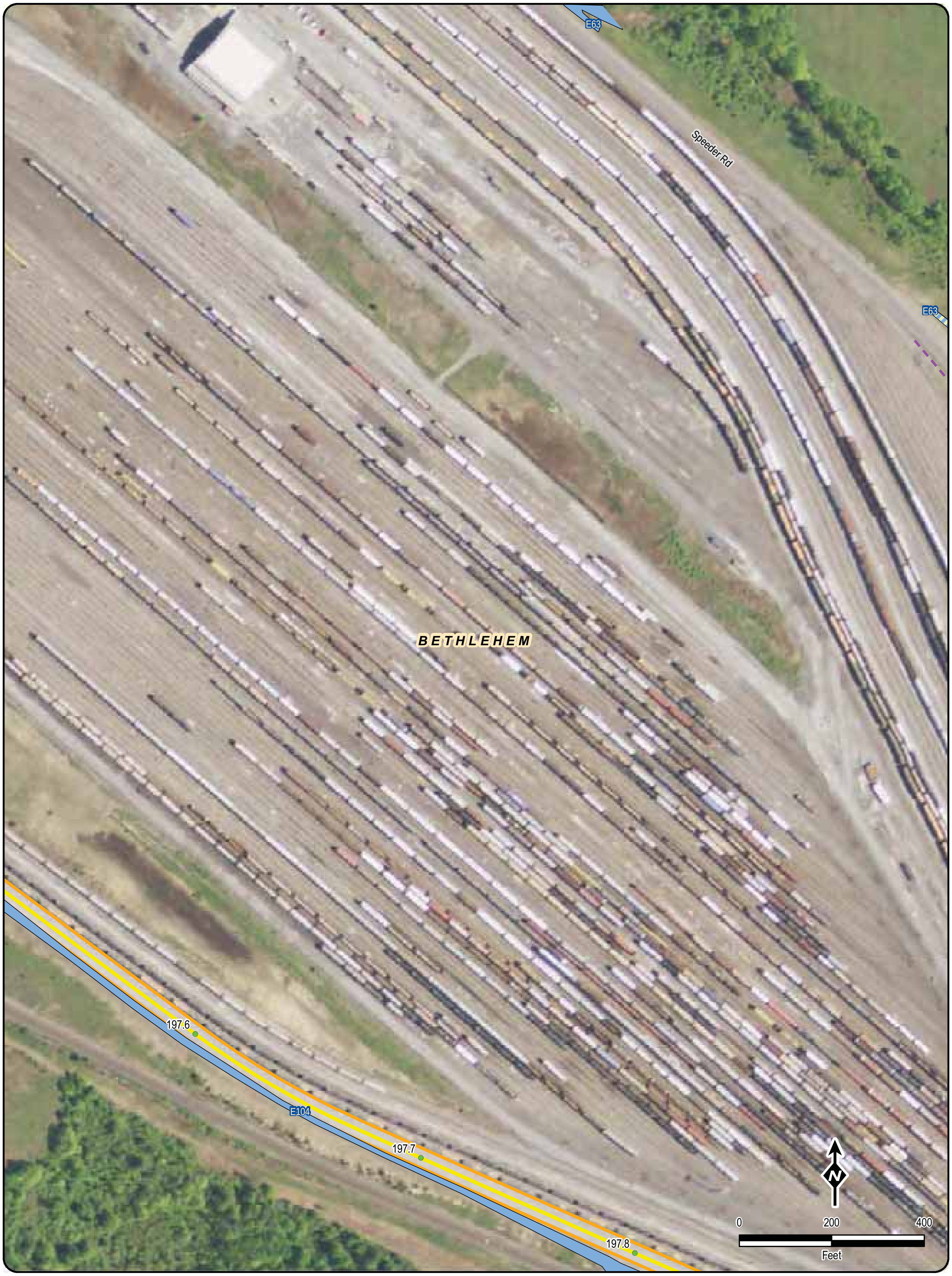
Figure A-1

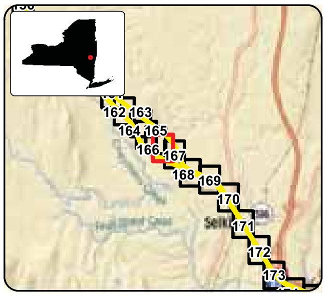
Wetland Delineation Mapping

Sheet 165 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

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- PFO/PSS Wetland
- PEM/PSS Wetland
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POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

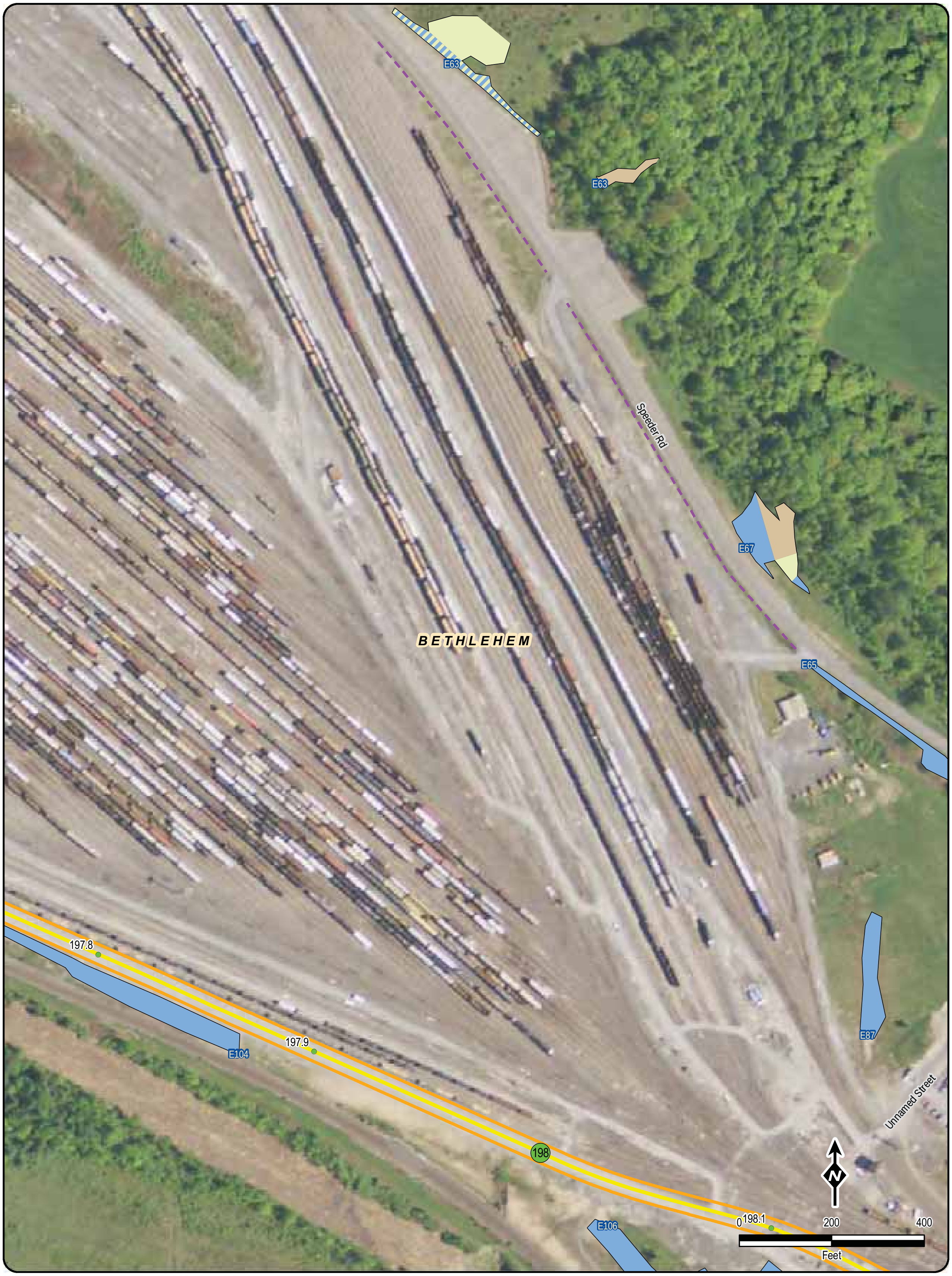
Figure A-1

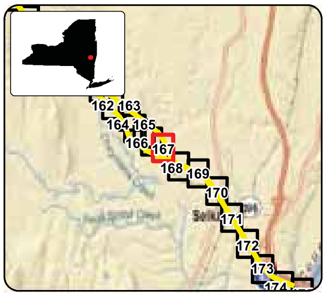
Wetland Delineation Mapping

Sheet 166 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- 🟨 PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

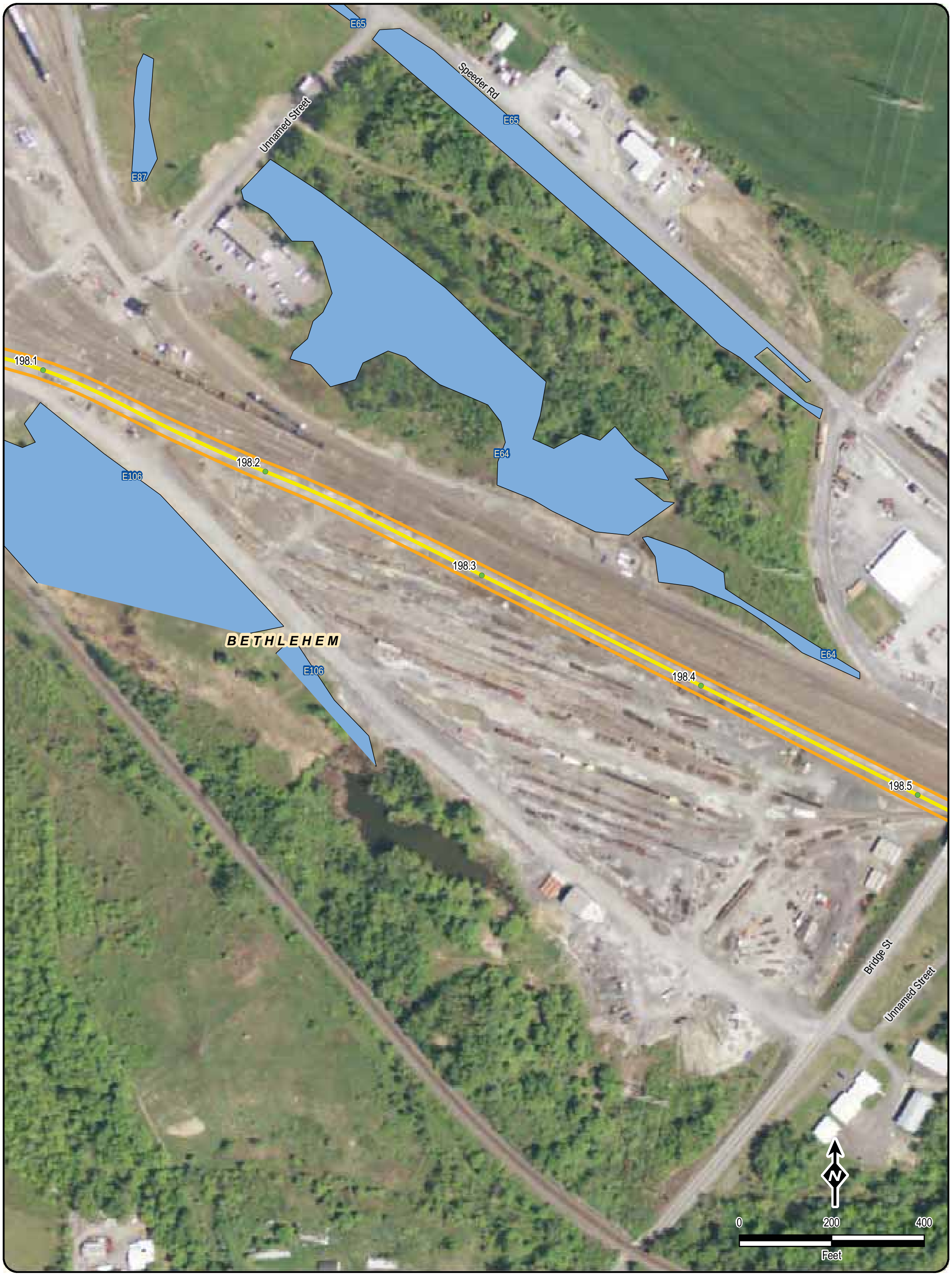
Figure A-1

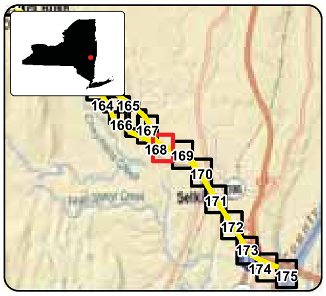
Wetland Delineation Mapping

Sheet 167 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

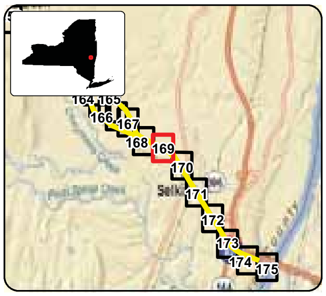
Figure A-1

Wetland Delineation Mapping

Sheet 168 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- — Proposed CHPEI Route
- ▭ Construction Corridor
- — Wetland Delineation Line
- — Perennial Stream Top of Bank
- - · - Intermittent Stream
- - - Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

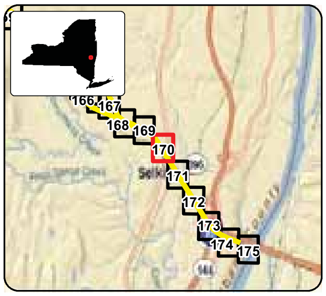
Figure A-1

Wetland Delineation Mapping

Sheet 169 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ― Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- -·- Intermittent Stream
- - - Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**

- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

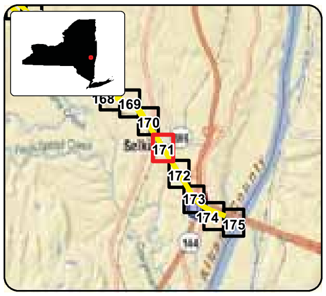
Figure A-1

Wetland Delineation Mapping

Sheet 170 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ─ Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ─ · ─ Intermittent Stream
- ‒ ‒ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

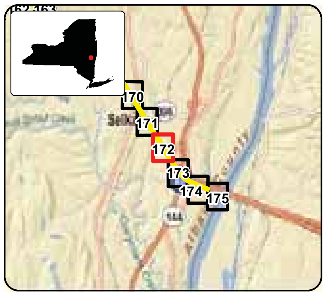
Figure A-1

Wetland Delineation Mapping

Sheet 171 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME

- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
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PFO	Palustrine Forested
POW	Open Water

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

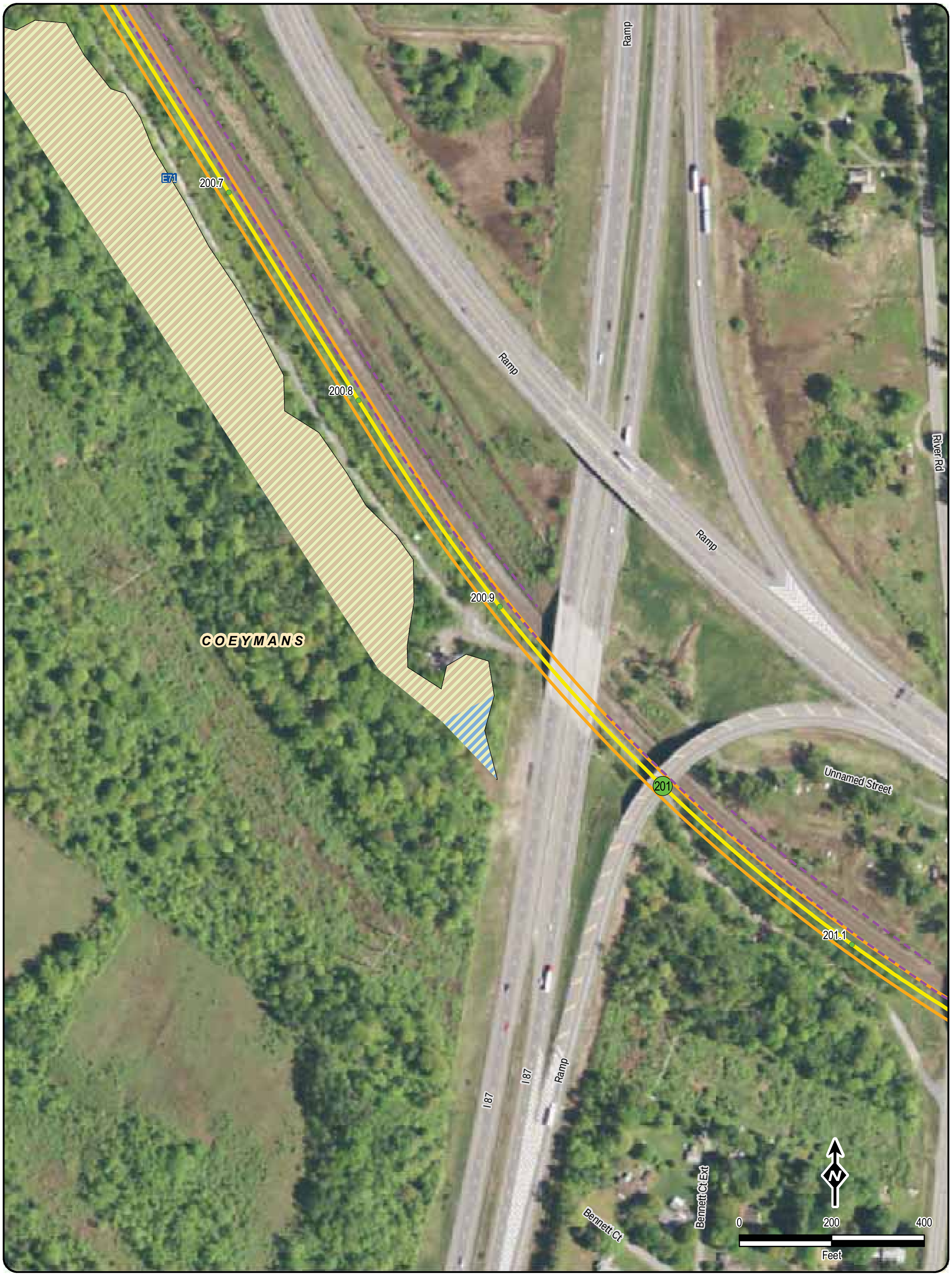
Figure A-1

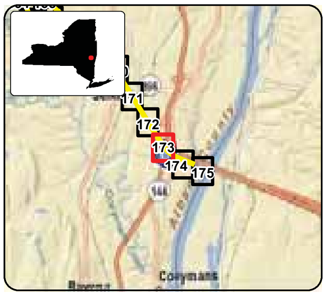
Wetland Delineation Mapping

Sheet 172 of 175

Prepared by: & 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- **WETLAND ID**
- **STREAM ID**
- **TOWN NAME**
- 🟦 PEM Wetland
- 🟫 PFO Wetlnad
- ▨ PSS Wetland
- 🟩 POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

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POW	Open Water

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

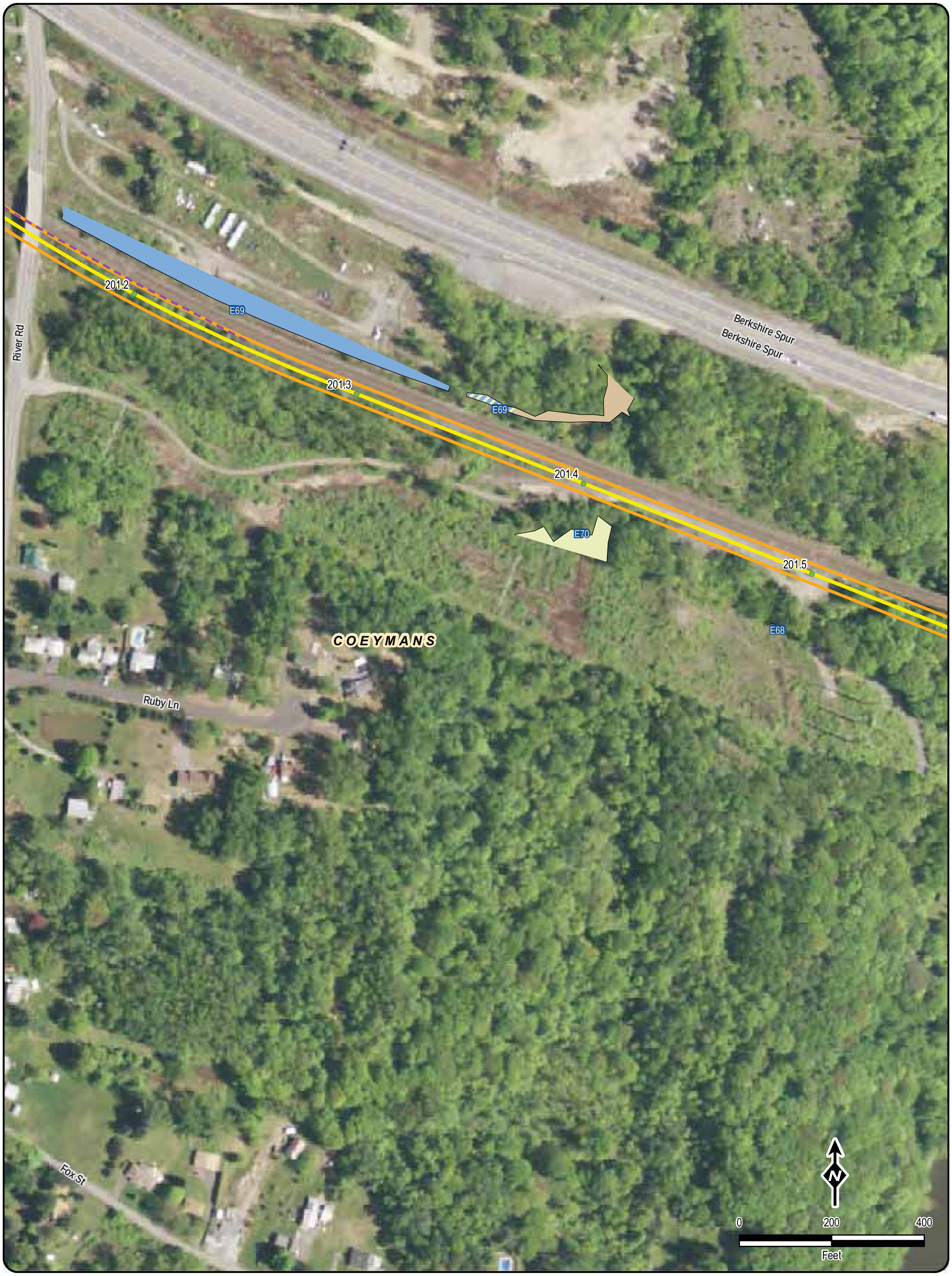
Figure A-1

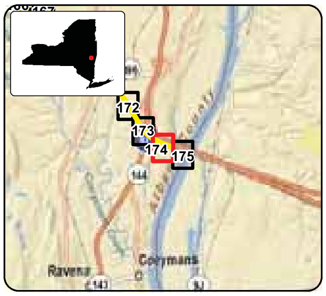
Wetland Delineation Mapping

Sheet 173 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- ● Milepost
- ▲ Canal Lock
- Proposed CHPEI Route
- Construction Corridor
- Wetland Delineation Line
- Perennial Stream Top of Bank
- Intermittent Stream
- Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- PEM Wetland
- PFO Wetlnad
- PSS Wetland
- POW Wetland
- PFO/PEM Wetland
- PFO/PSS Wetland
- PEM/PSS Wetland
- POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
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PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

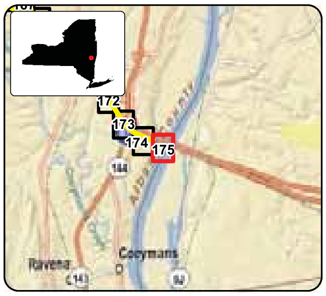
Figure A-1

Wetland Delineation Mapping

Sheet 174 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC



LEGEND

- ● Milepost
- ▲ Canal Lock
- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ― Wetland Delineation Line
- ━ Perennial Stream Top of Bank
- ‐ · ‐ Intermittent Stream
- ‐ ‐ Ditch
- WETLAND ID
- STREAM ID
- TOWN NAME
- ■ PEM Wetland
- ■ PFO Wetlnad
- ■ PSS Wetland
- ■ POW Wetland
- ▨ PFO/PEM Wetland
- ▨ PFO/PSS Wetland
- ▨ PEM/PSS Wetland
- ▨ POW/PSS Wetland

Cover Type	Description
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
PFO	Palustrine Forested
POW	Open Water

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

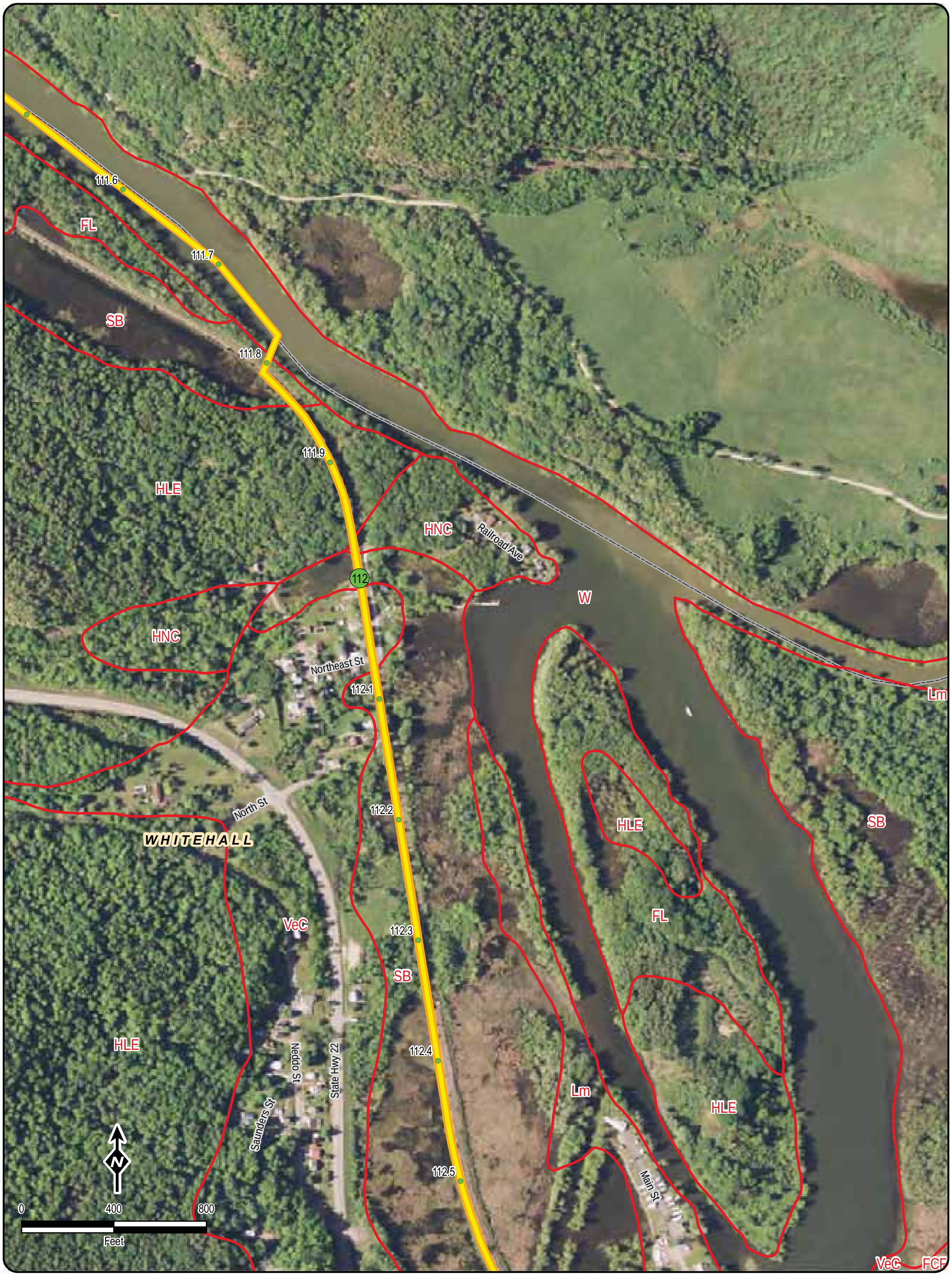
Figure A-1

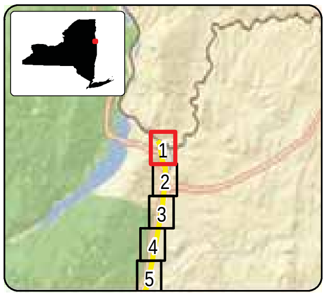
Wetland Delineation Mapping

Sheet 175 of 175

Prepared by: HDR & TRC 7/13/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC





LEGEND

- 🟨 Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

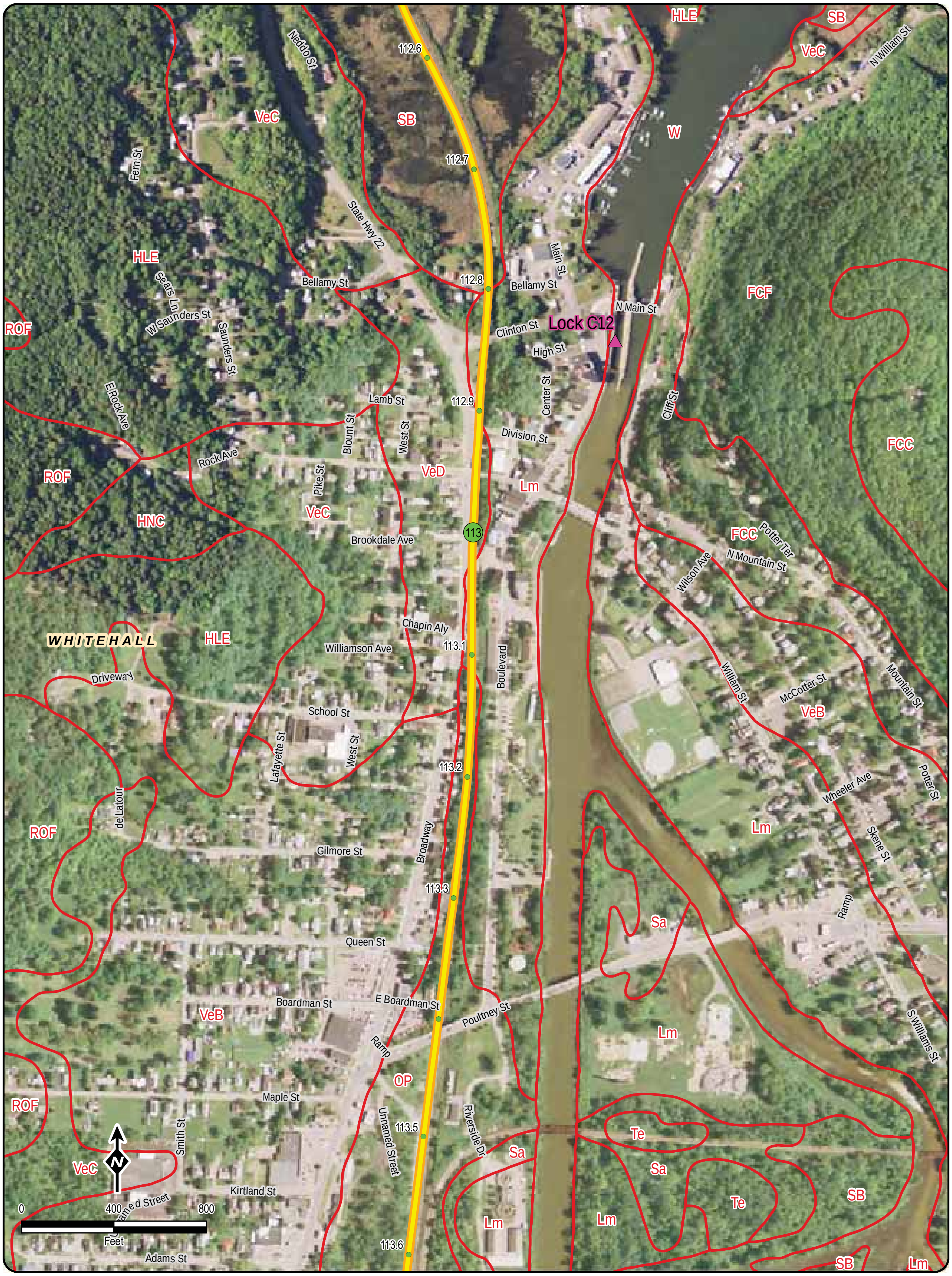
Figure A-2

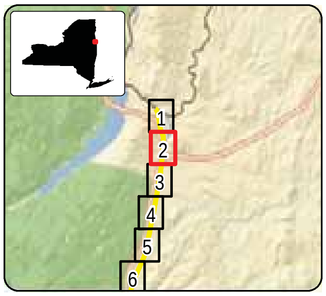
NRCS Soil Mapping

Sheet 1 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- Proposed CHPEI Route
- Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ▭ Town Boundary
- **TOWN NAME**

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

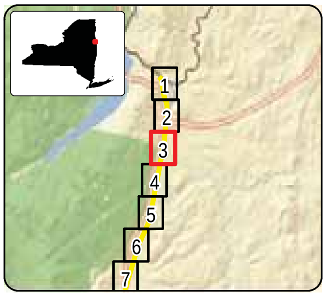
Figure A-2

NRCS Soil Mapping

Sheet 2 of 84

Prepared by: HDR | TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

🟨 Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
🟥 NRCS Soil Boundary
▭ Town Boundary
TOWN NAME

Transmission

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

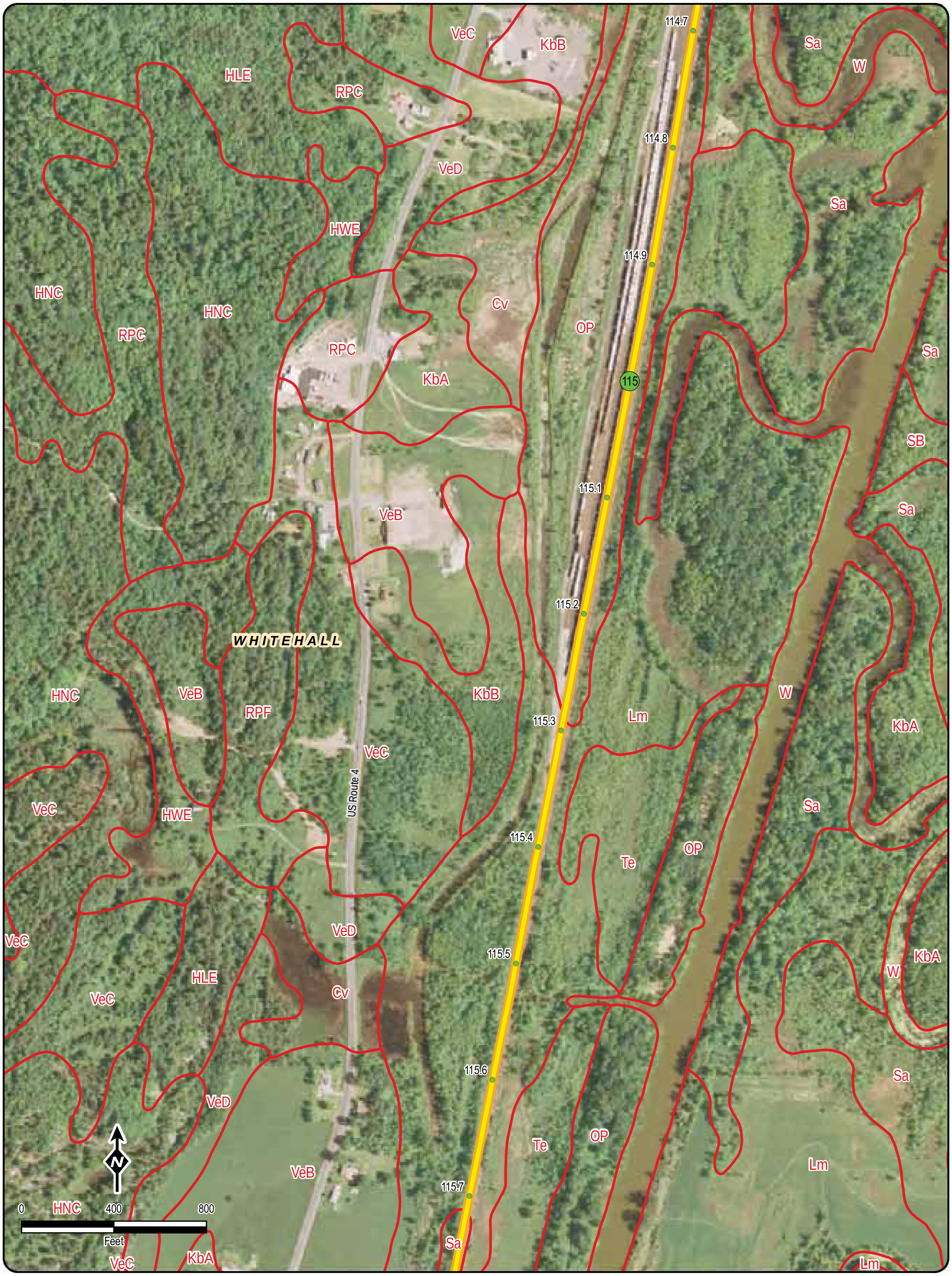
Figure A-2

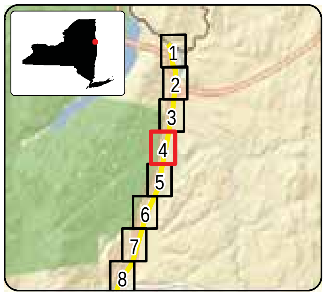
NRCS Soil Mapping

Sheet 3 of 84

Prepared by: HDR | TRC & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

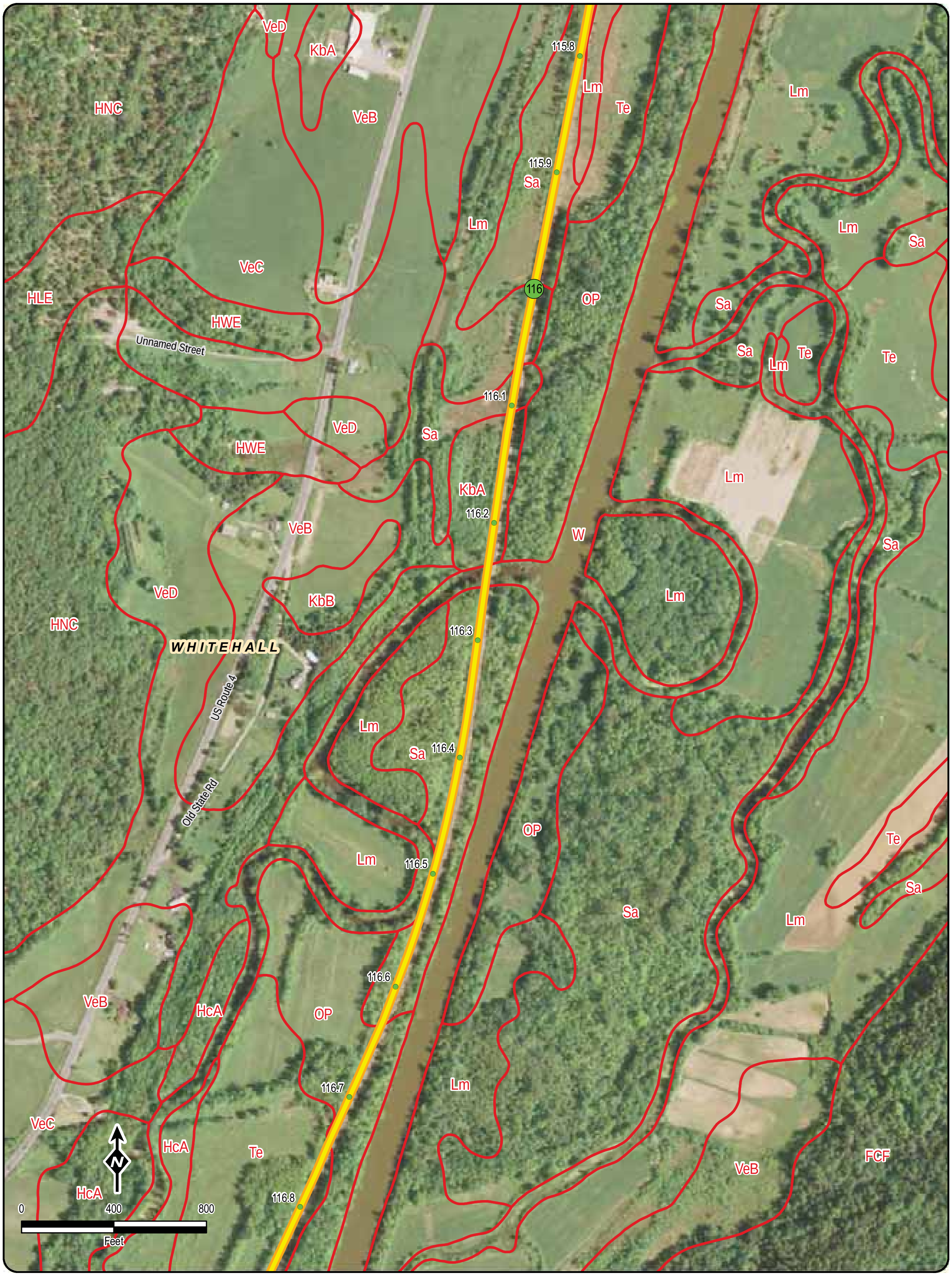
Figure A-2

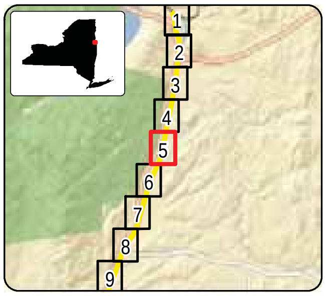
NRCS Soil Mapping

Sheet 4 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

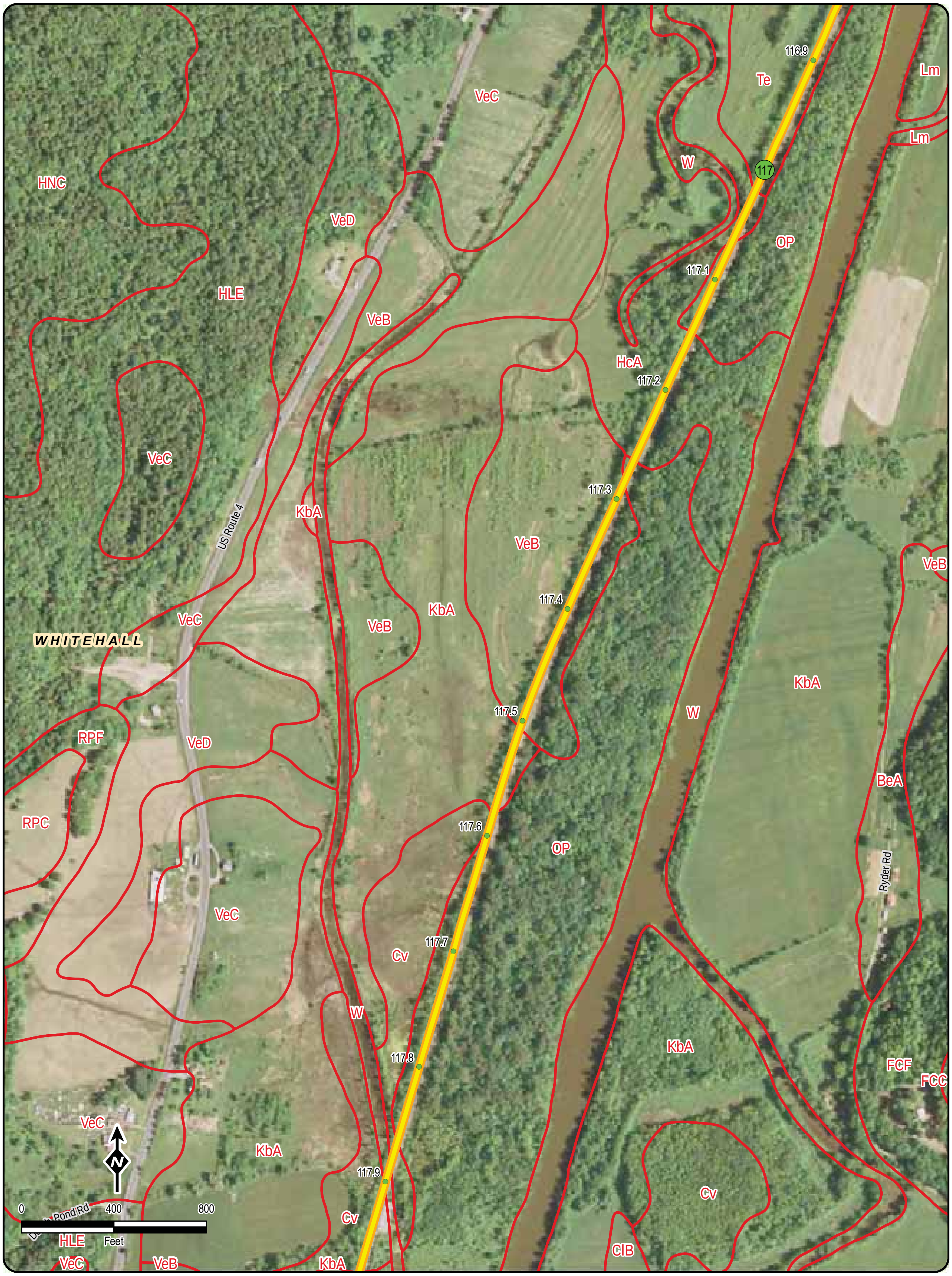
Figure A-2

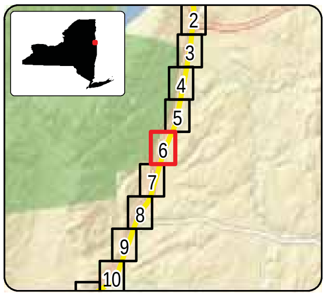
NRCS Soil Mapping

Sheet 5 of 84

Prepared by: HDR | ... & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ☐ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ☐ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

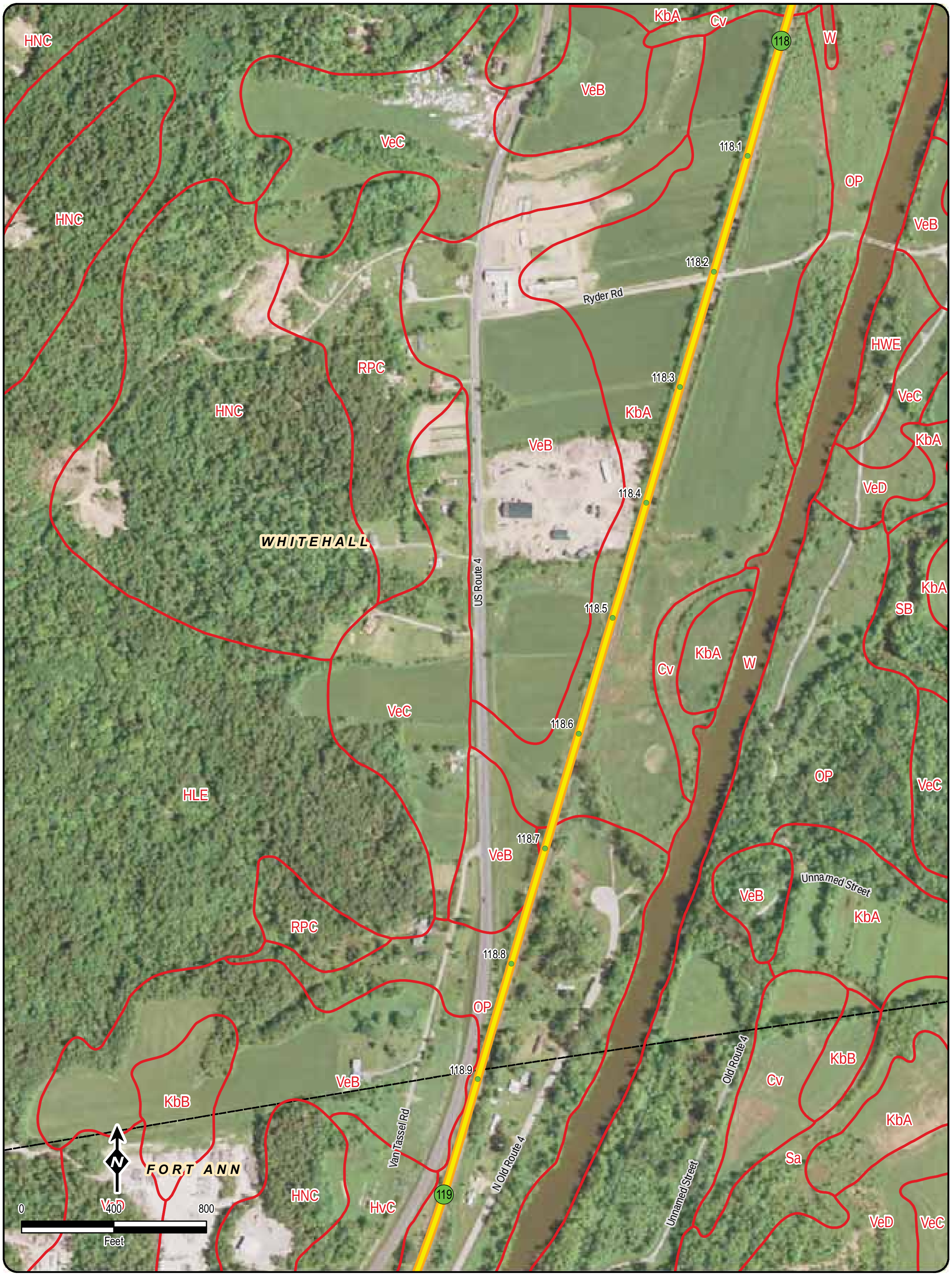
Figure A-2

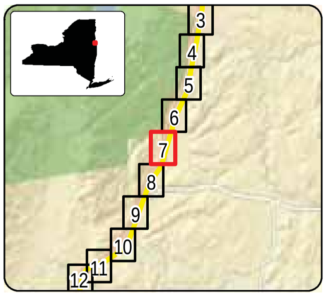
NRCS Soil Mapping

Sheet 6 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

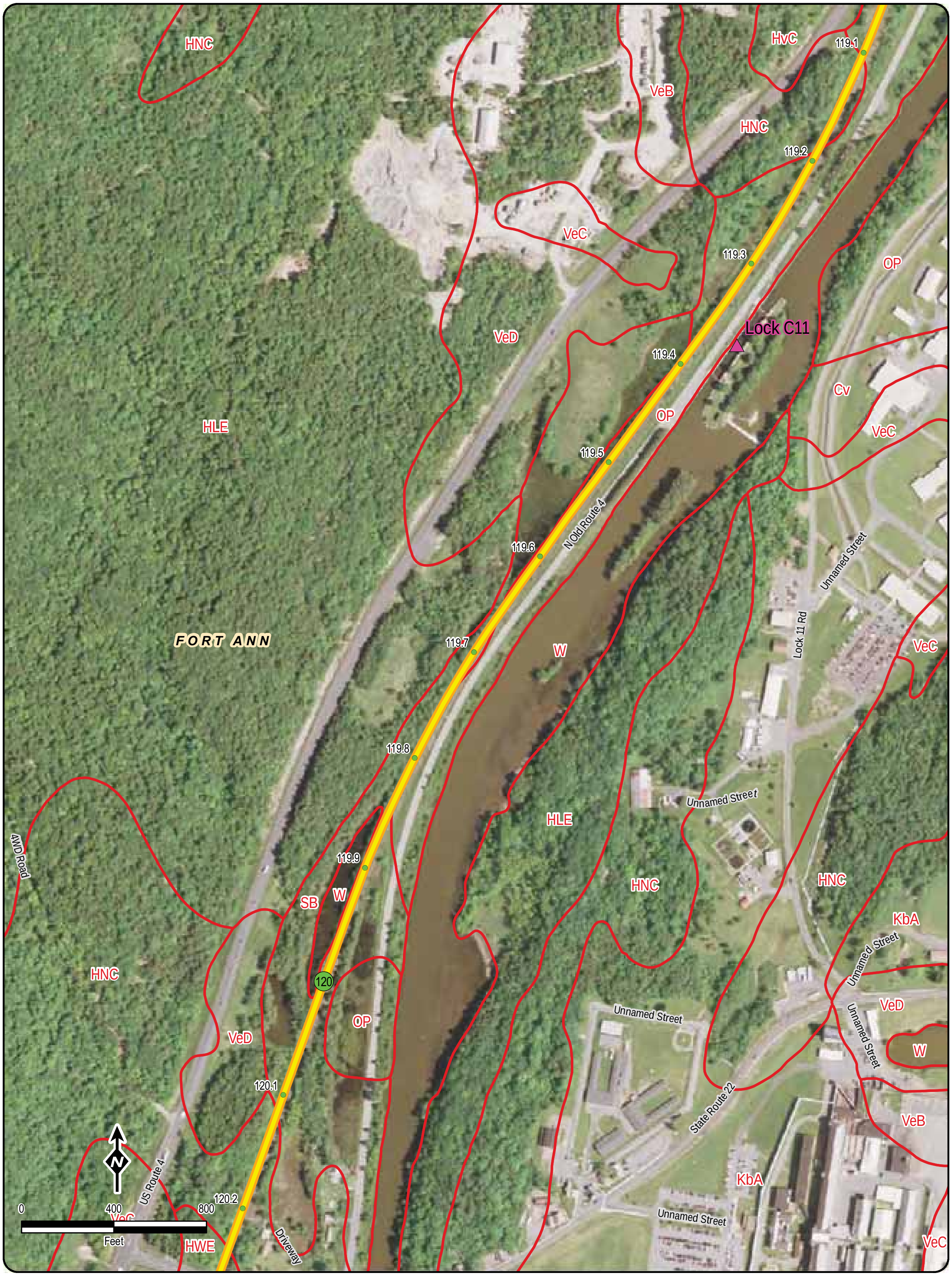
Figure A-2

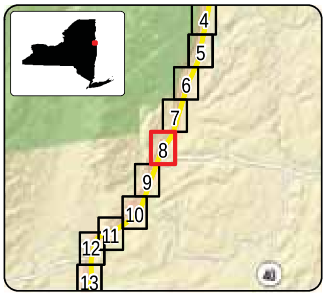
NRCS Soil Mapping

Sheet 7 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

☐ Construction Corridor

● Milepost

▲ Canal Lock

☐ NRCS Soil Boundary

☐ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

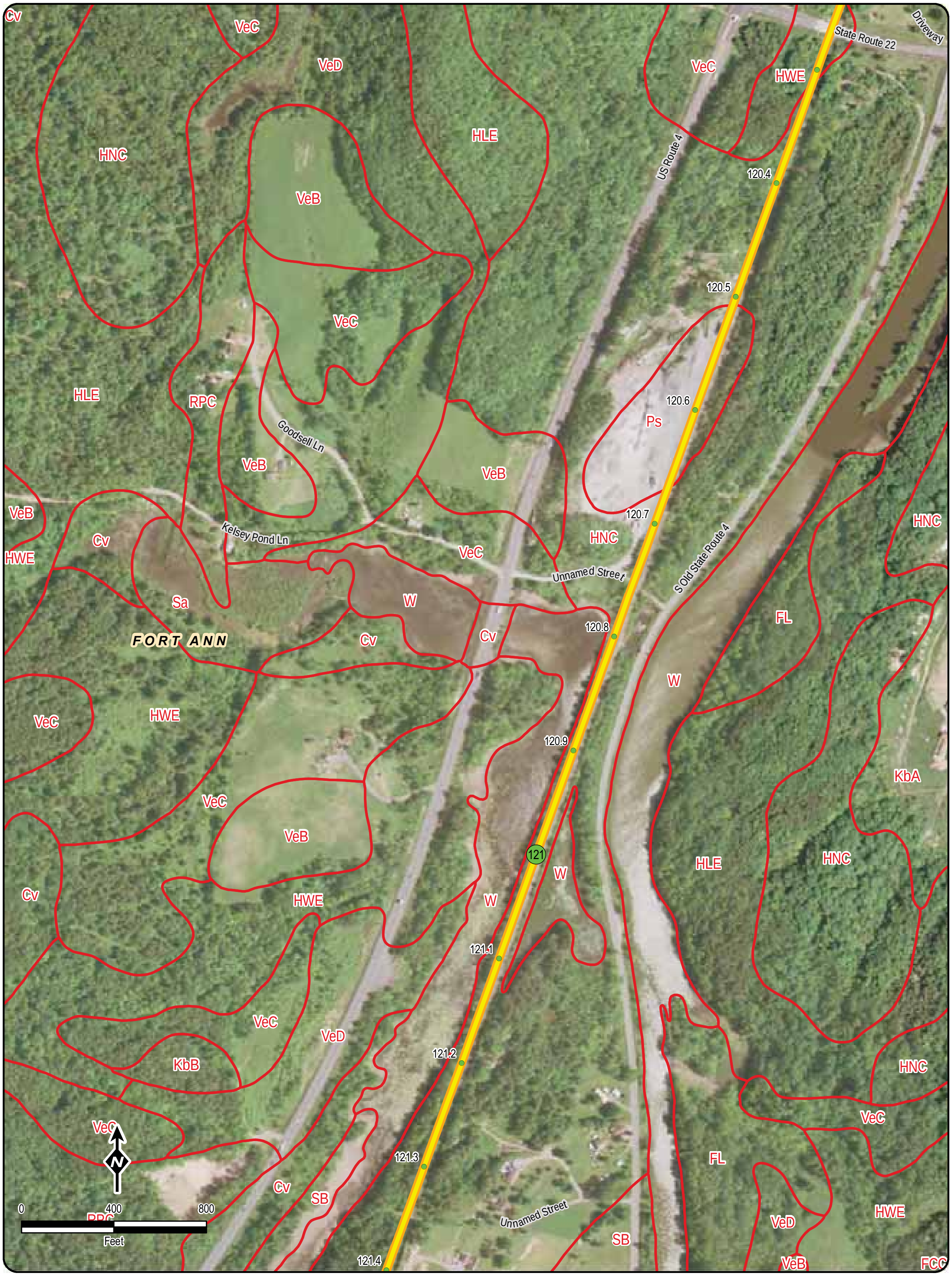
Figure A-2

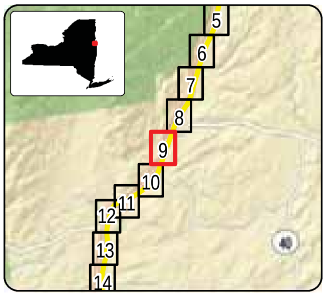
NRCS Soil Mapping

Sheet 8 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

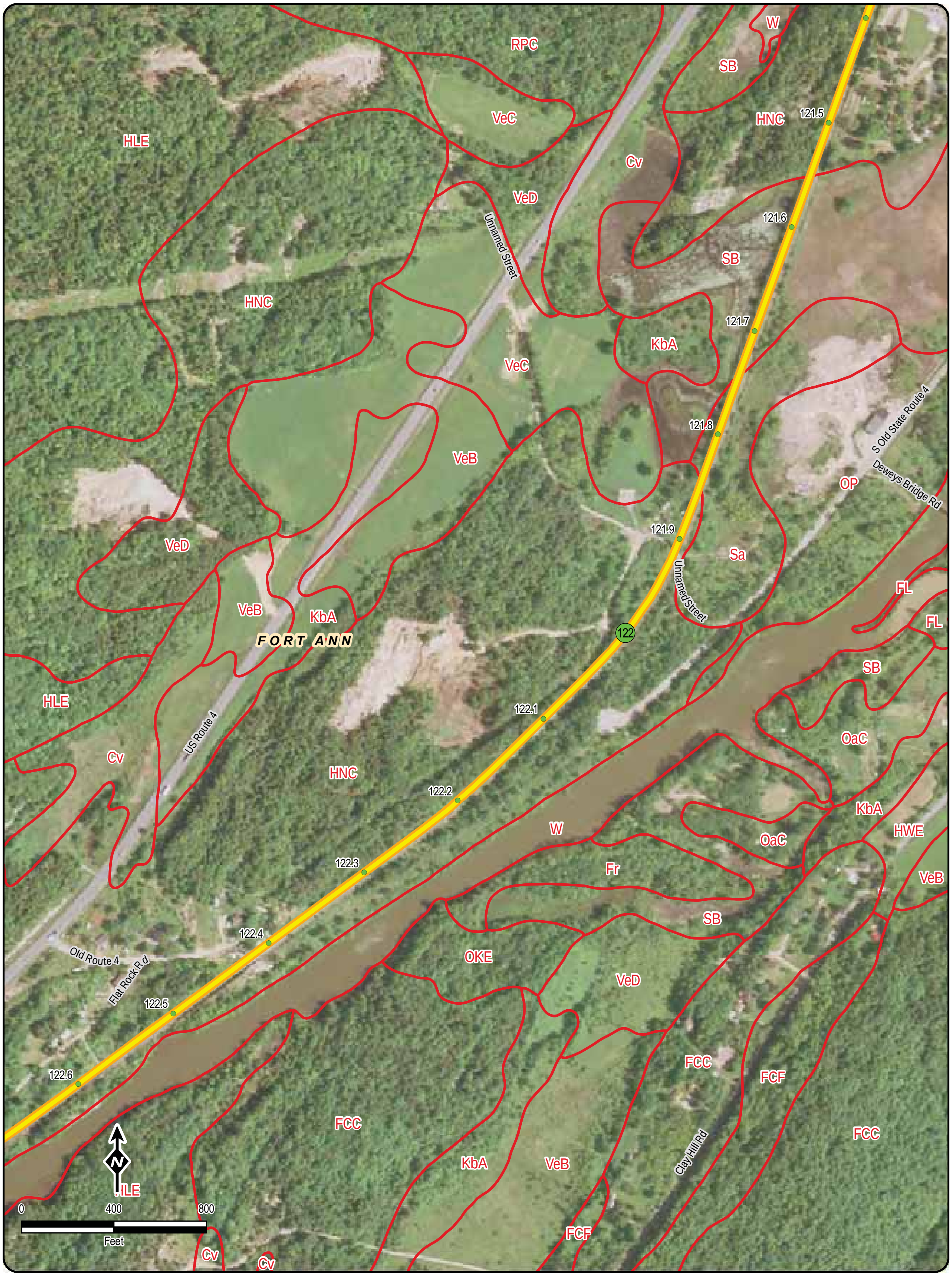
Figure A-2

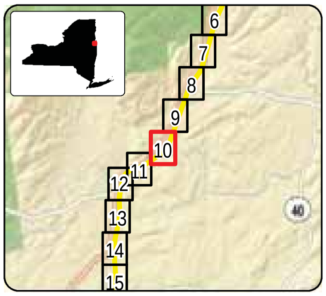
NRCS Soil Mapping

Sheet 9 of 84

Prepared by: HDR | TRC & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

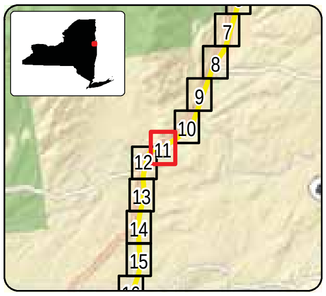
Figure A-2

NRCS Soil Mapping

Sheet 10 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

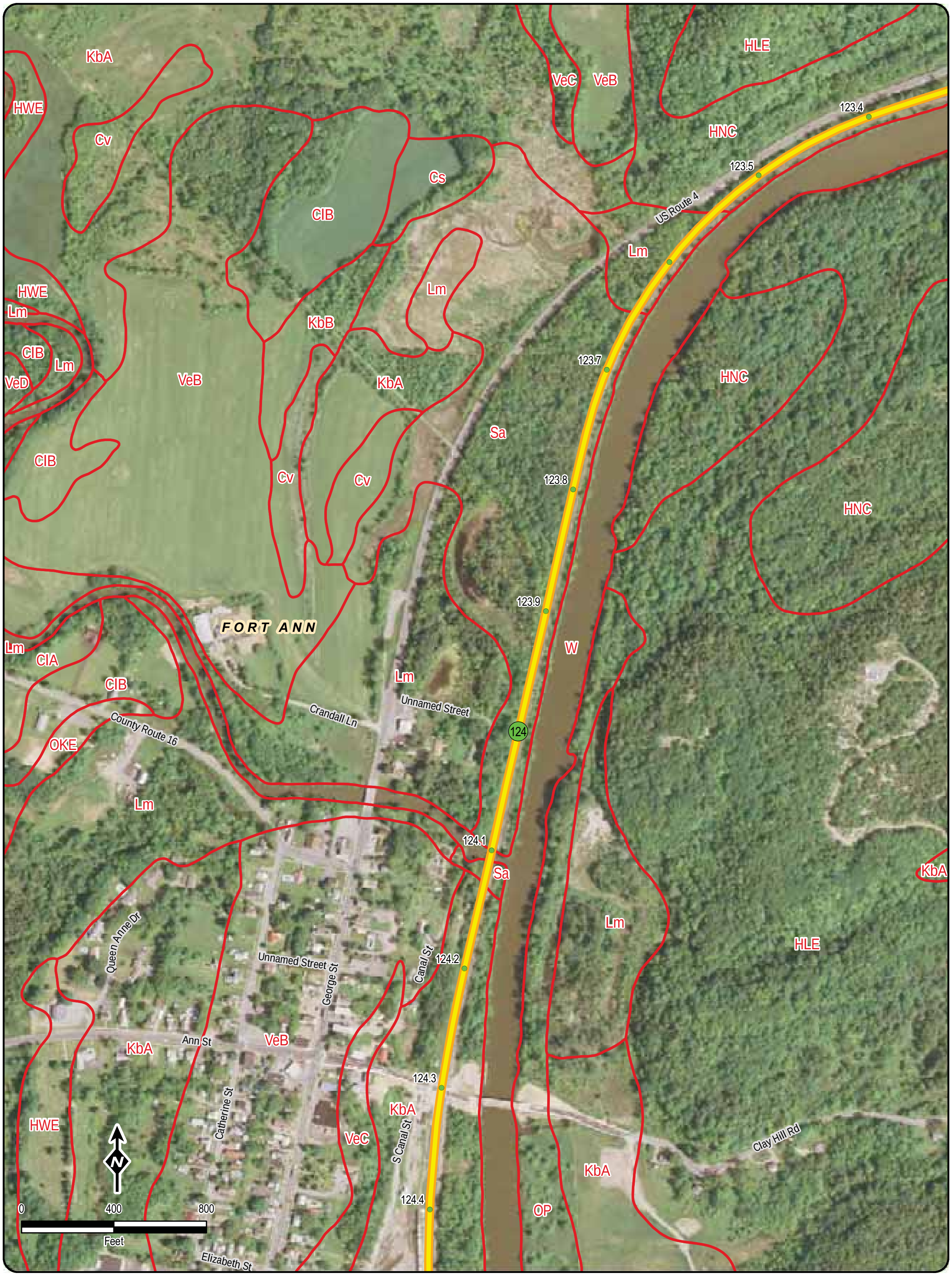
Figure A-2

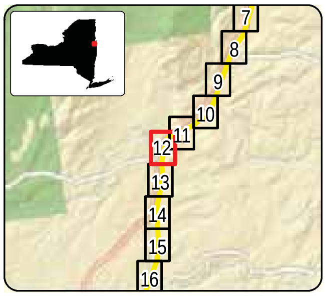
NRCS Soil Mapping

Sheet 11 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

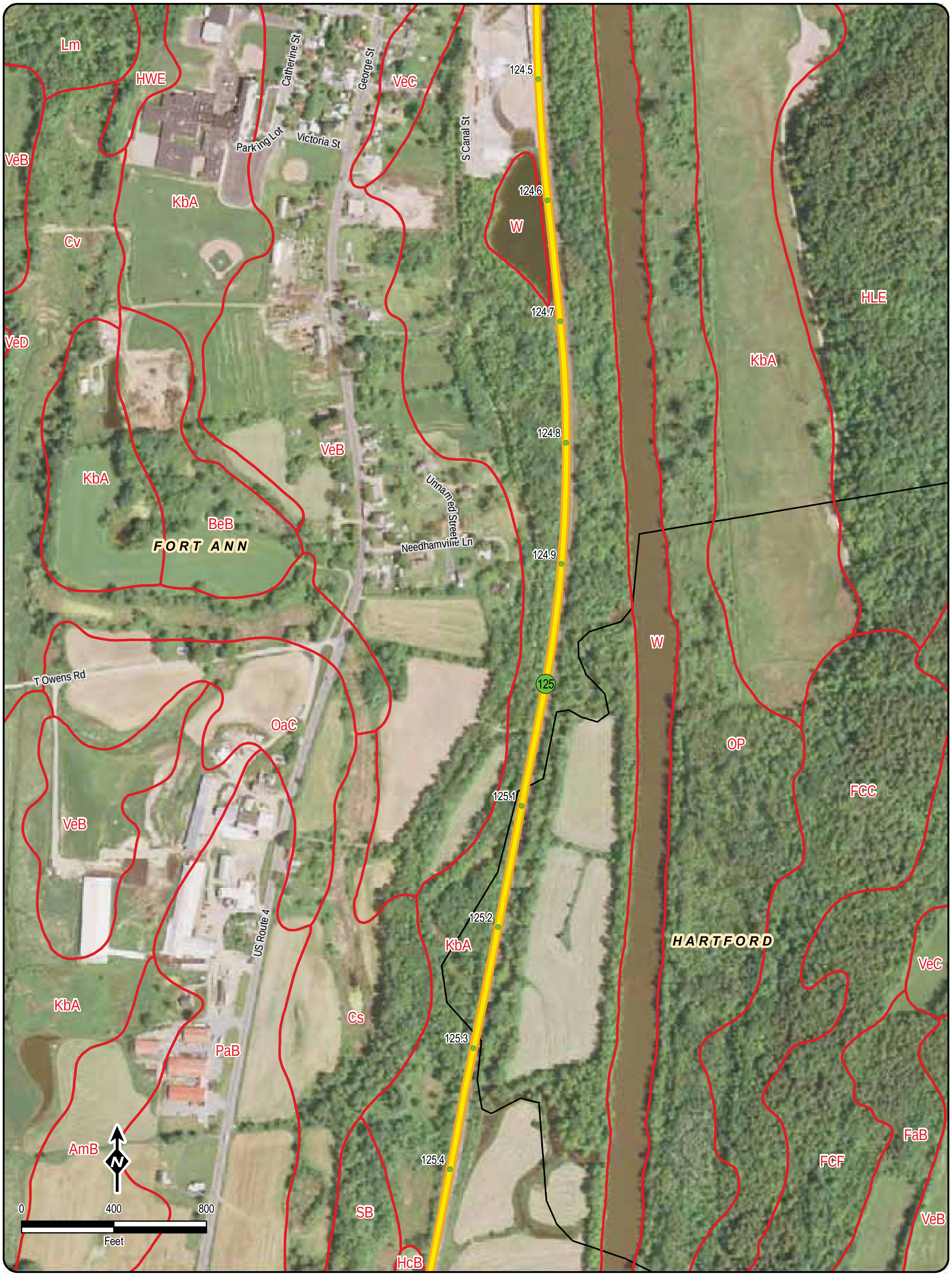
Figure A-2

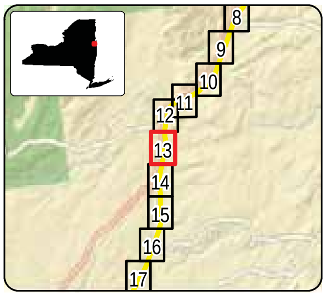
NRCS Soil Mapping

Sheet 12 of 84

Prepared by: HDR | TETRA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

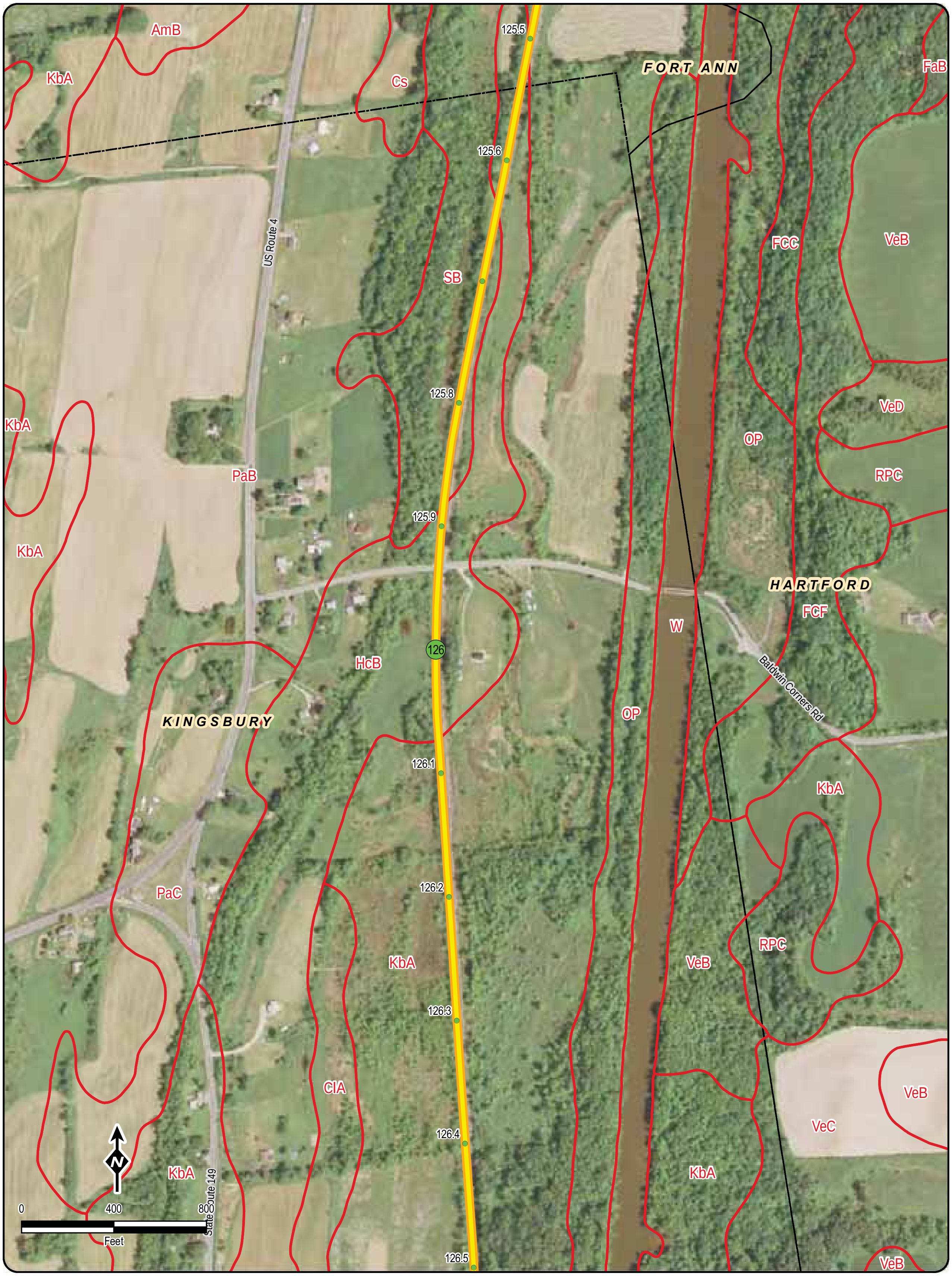
Figure A-2

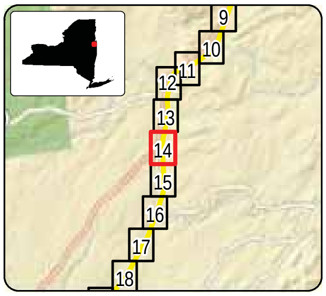
NRCS Soil Mapping

Sheet 13 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

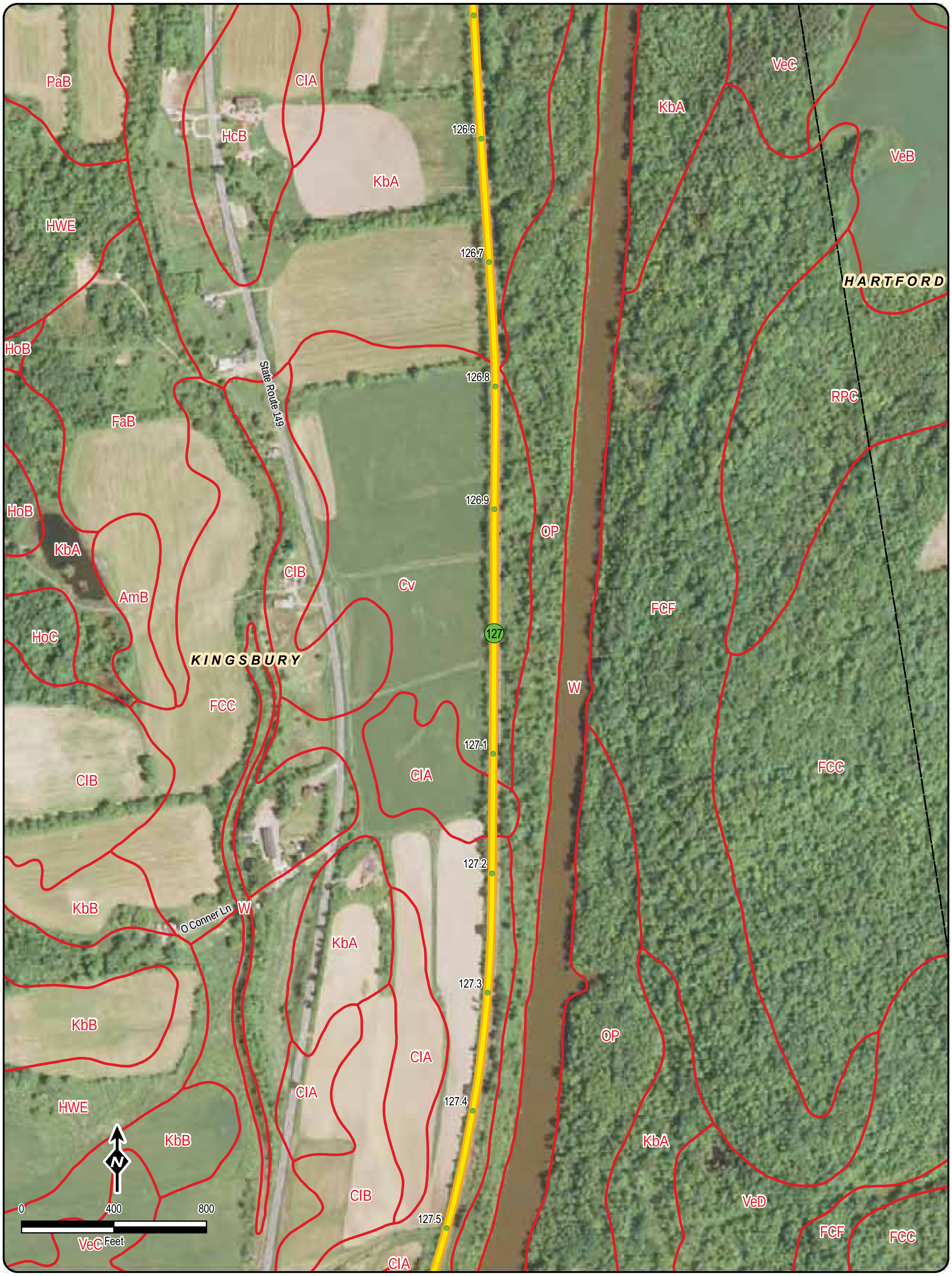
Figure A-2

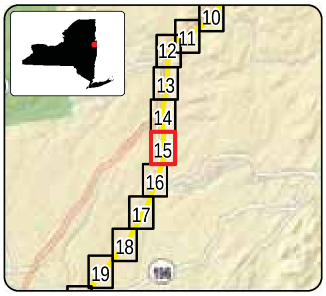
NRCS Soil Mapping

Sheet 14 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
▭ NRCS Soil Boundary
⬚ Town Boundary
TOWN NAME

Transmission

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

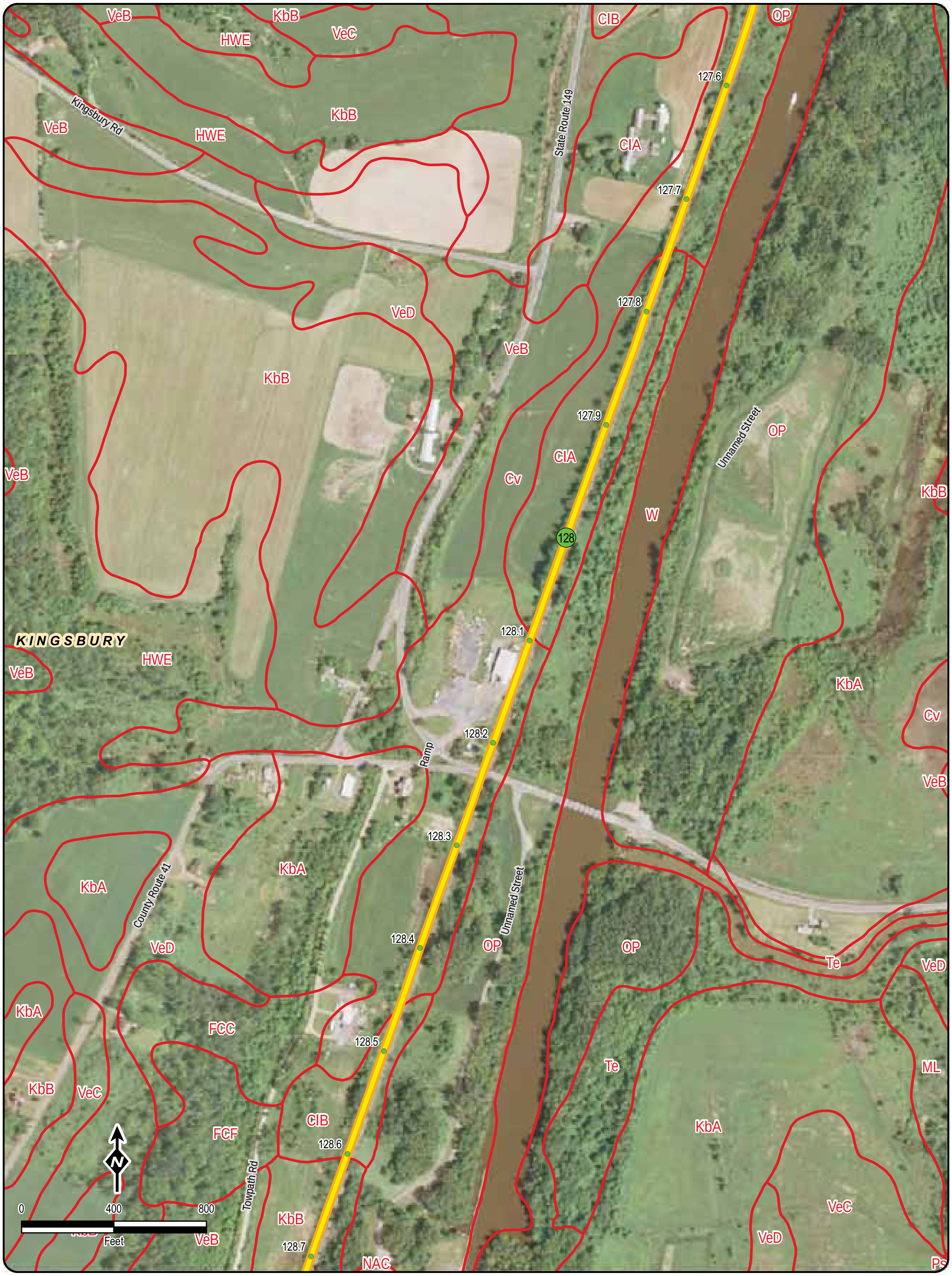
Figure A-2

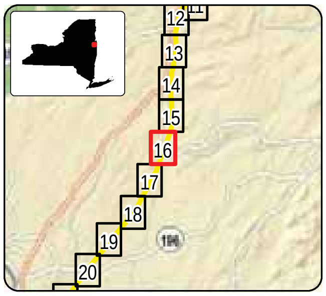
NRCS Soil Mapping

Sheet 15 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

□ Construction Corridor

● Milepost

▲ Canal Lock

□ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

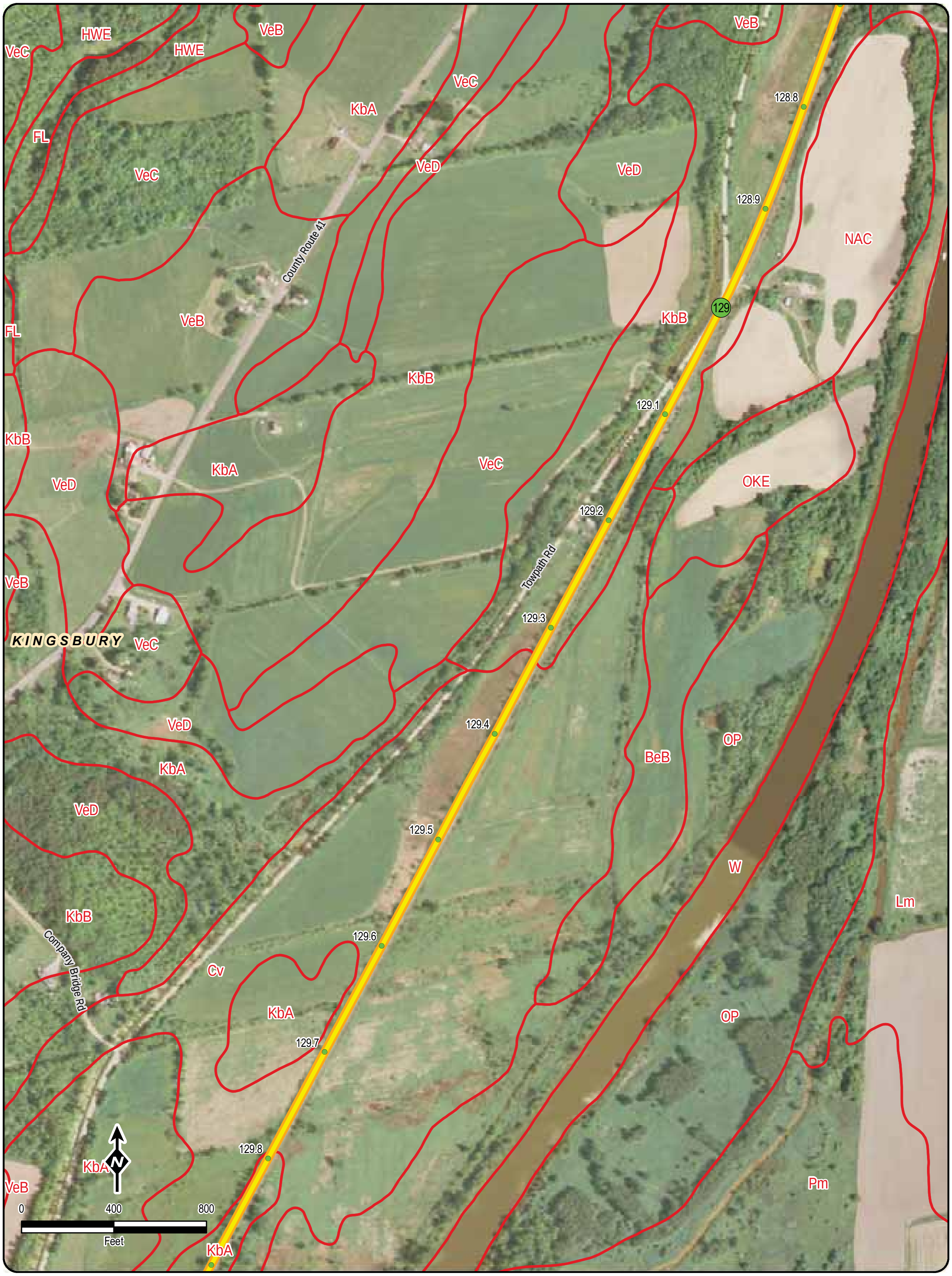
Figure A-2

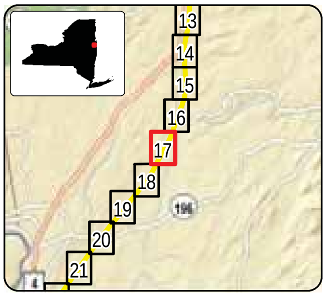
NRCS Soil Mapping

Sheet 16 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
▭ NRCS Soil Boundary
⬚ Town Boundary
TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

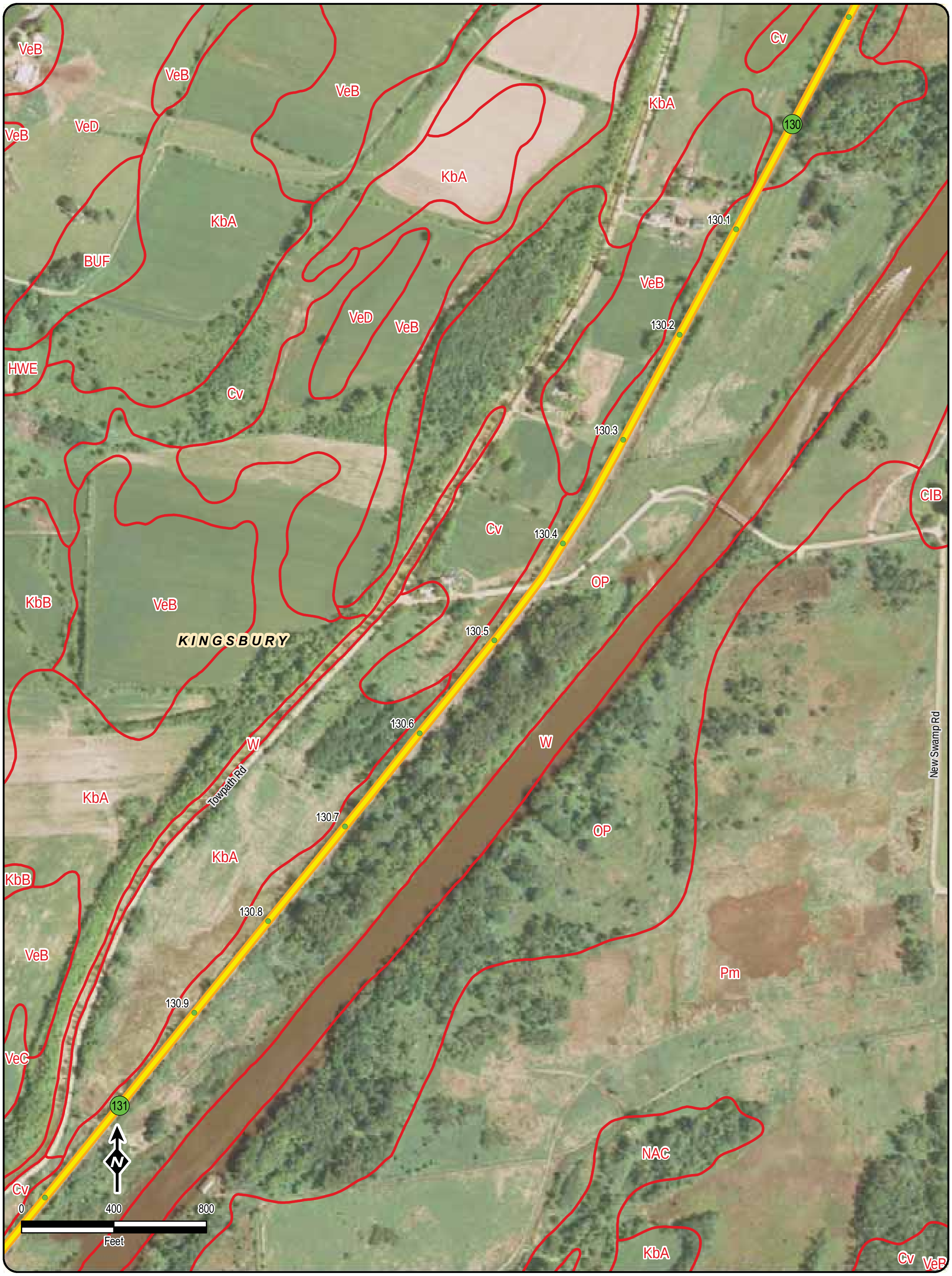
Figure A-2

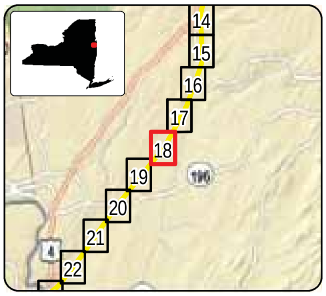
NRCS Soil Mapping

Sheet 17 of 84

Prepared by: HDR | TRC & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

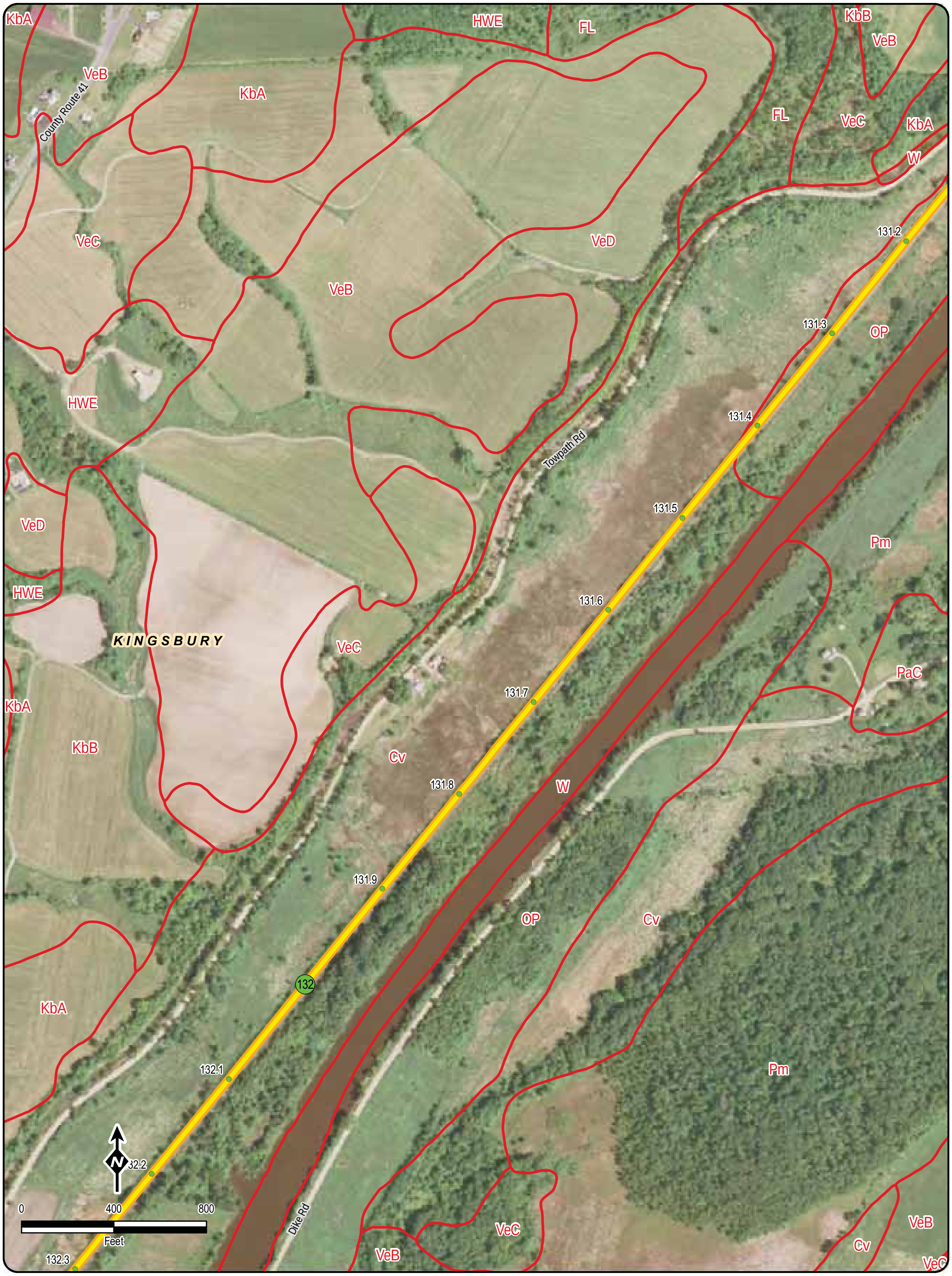
Figure A-2

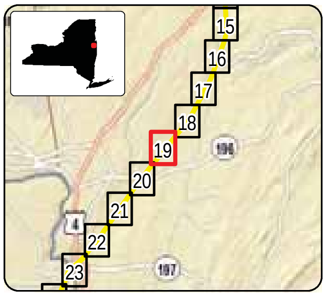
NRCS Soil Mapping

Sheet 18 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

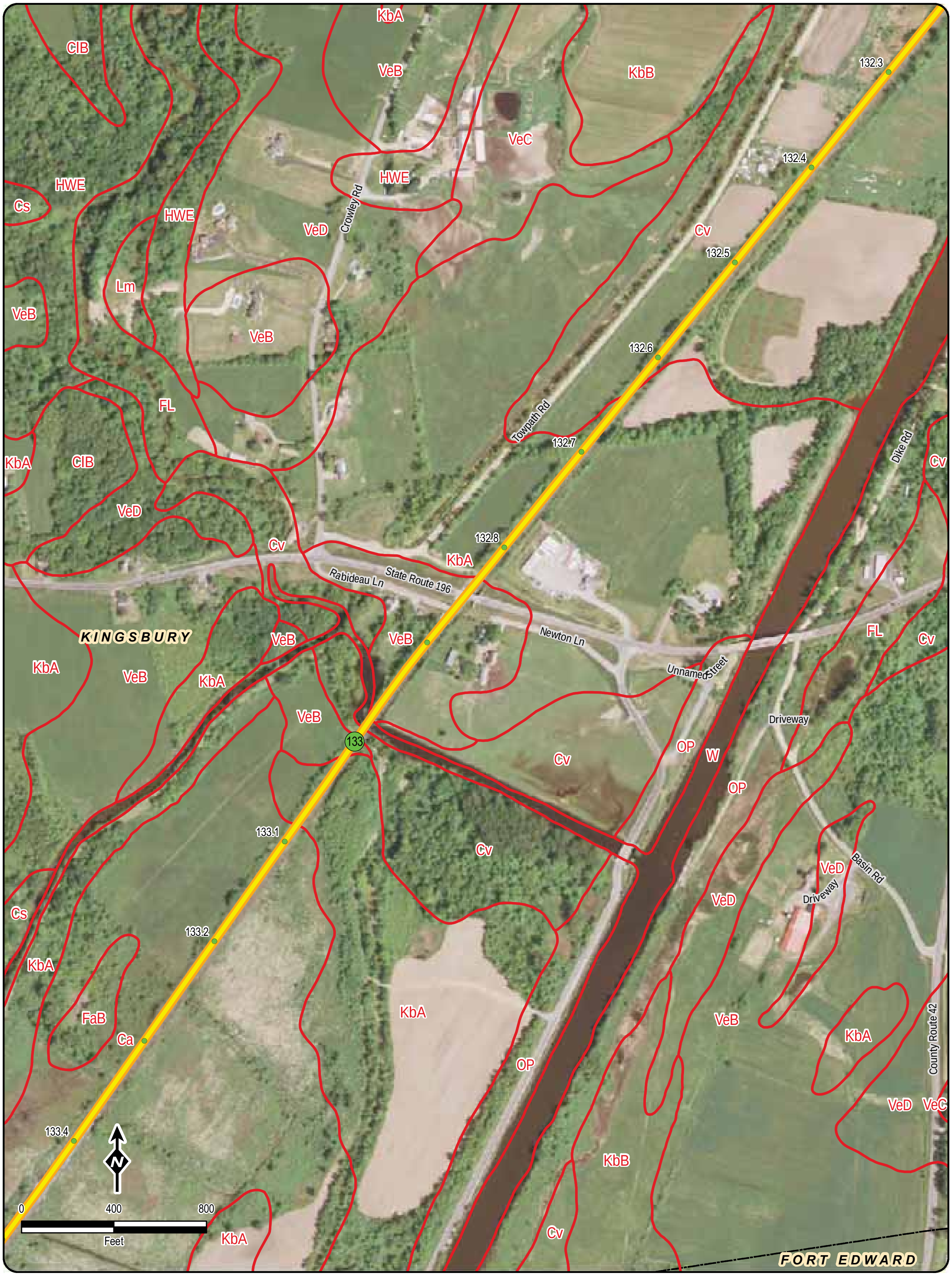
Figure A-2

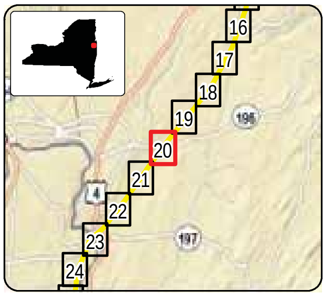
NRCS Soil Mapping

Sheet 19 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- — Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

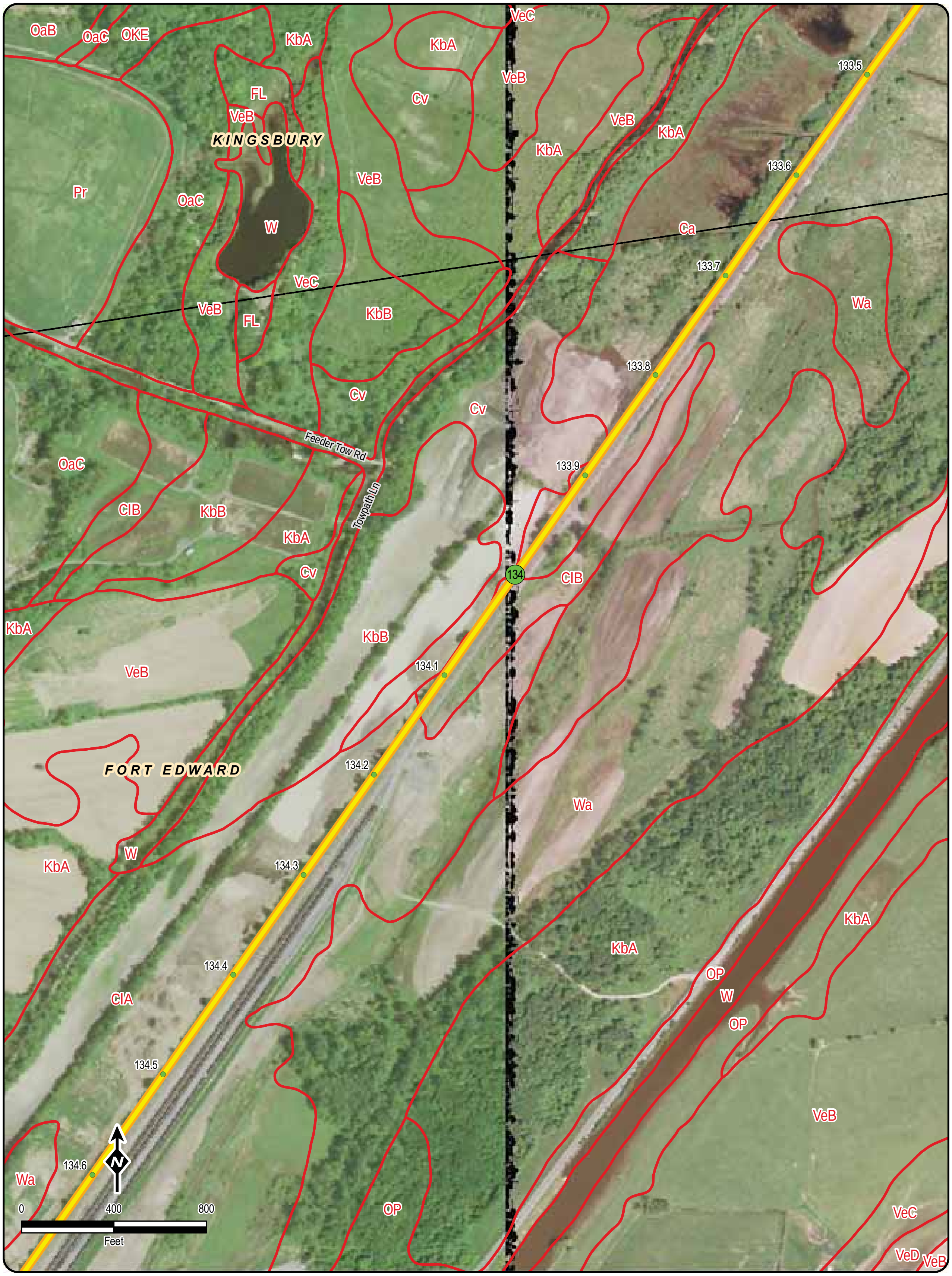
Figure A-2

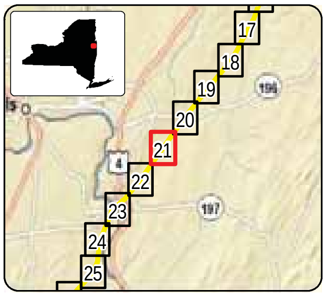
NRCS Soil Mapping

Sheet 20 of 84

Prepared by: HDR TRC & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

— Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

▭ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

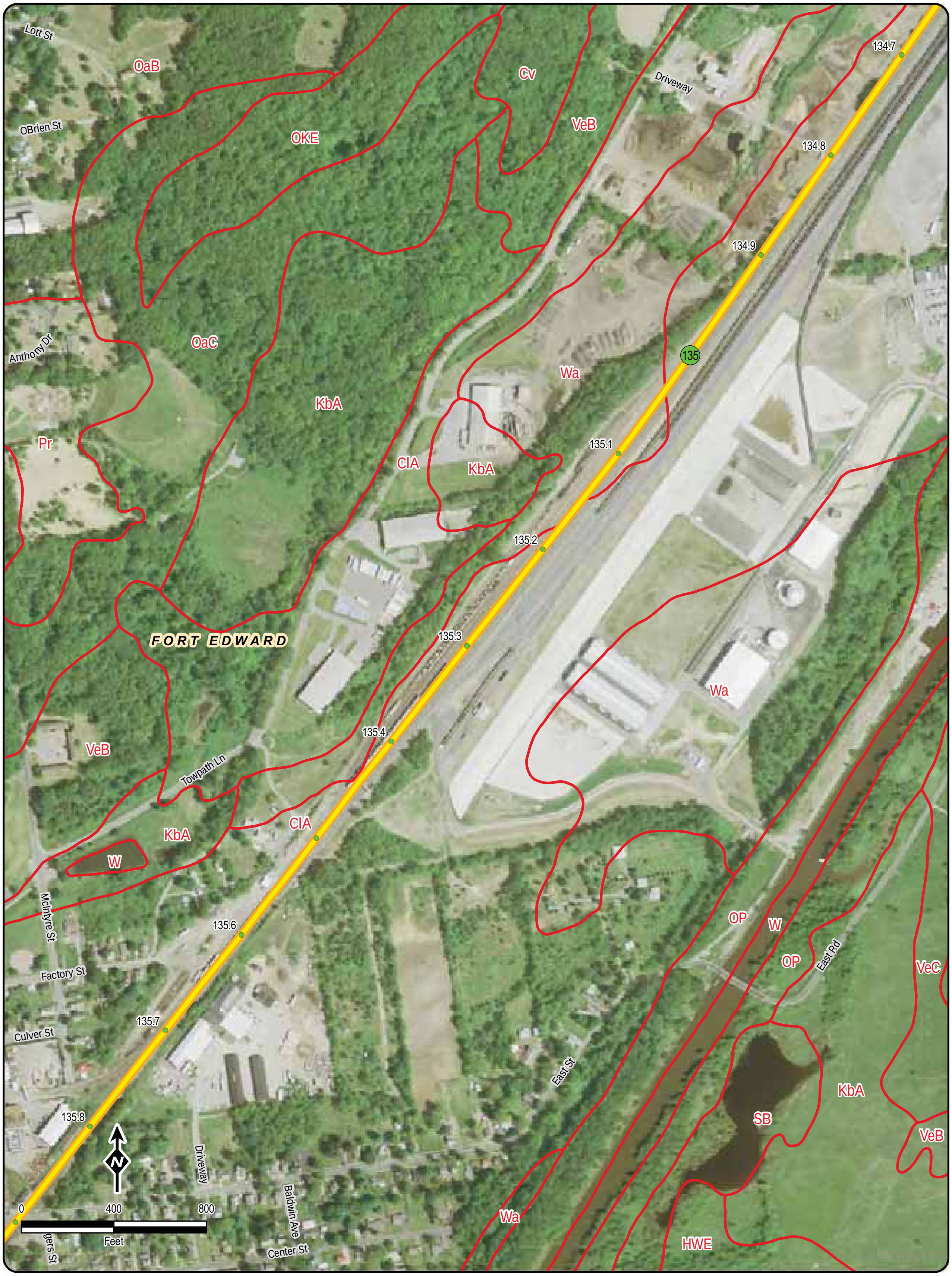
Figure A-2

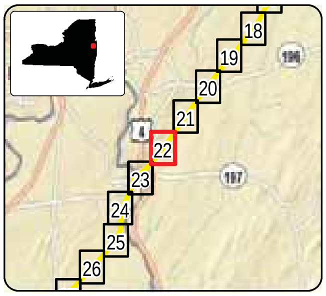
NRCS Soil Mapping

Sheet 21 of 84

Prepared by: HDR | Pen & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

🟨 Proposed CHPEI Route

🟧 Construction Corridor

● Milepost

▲ Canal Lock

🟥 NRCS Soil Boundary

▭ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

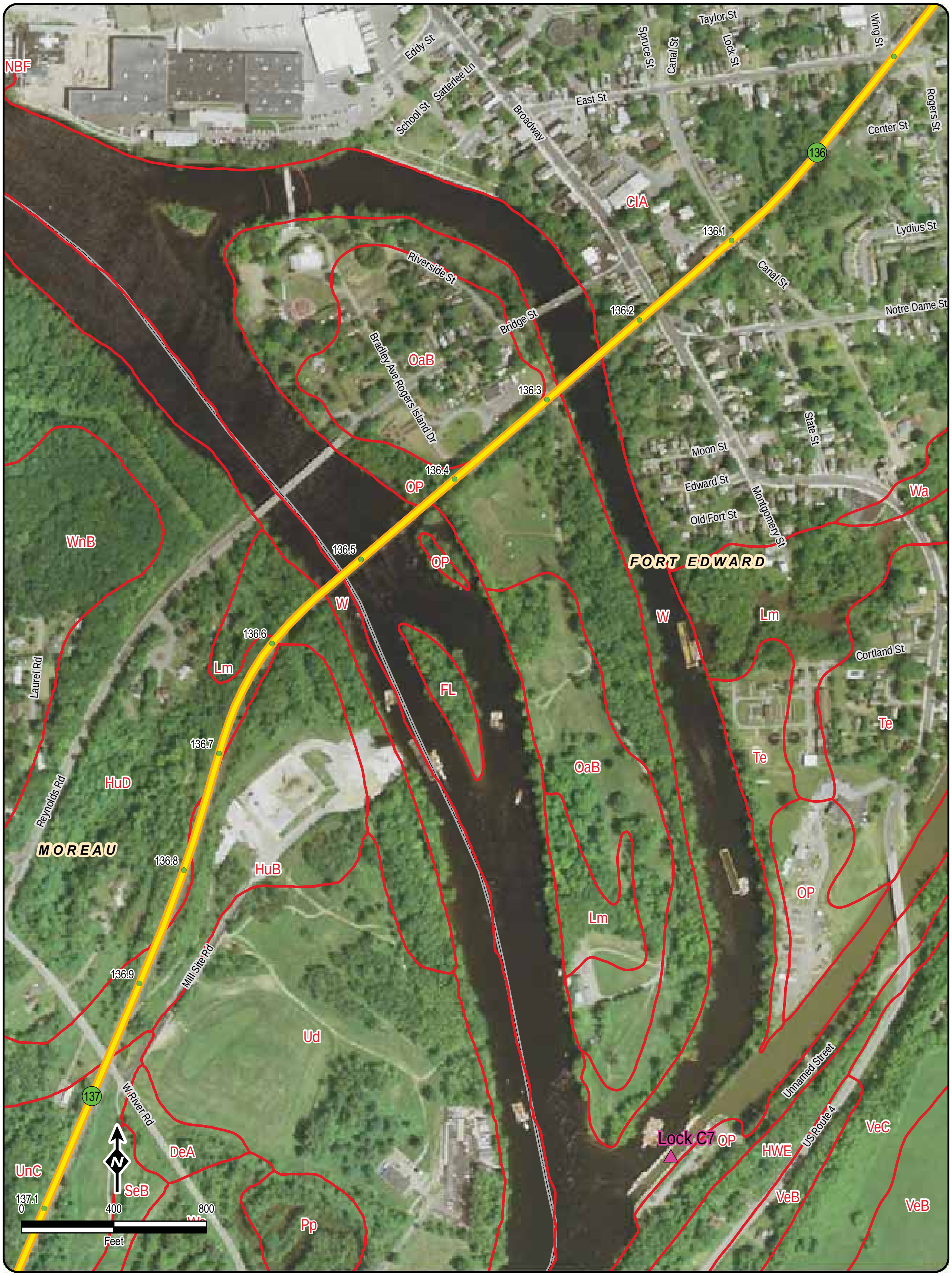
Figure A-2

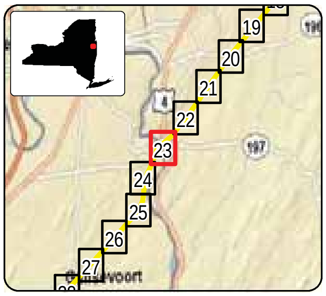
NRCS Soil Mapping

Sheet 22 of 84

Prepared by: HDR | ... & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

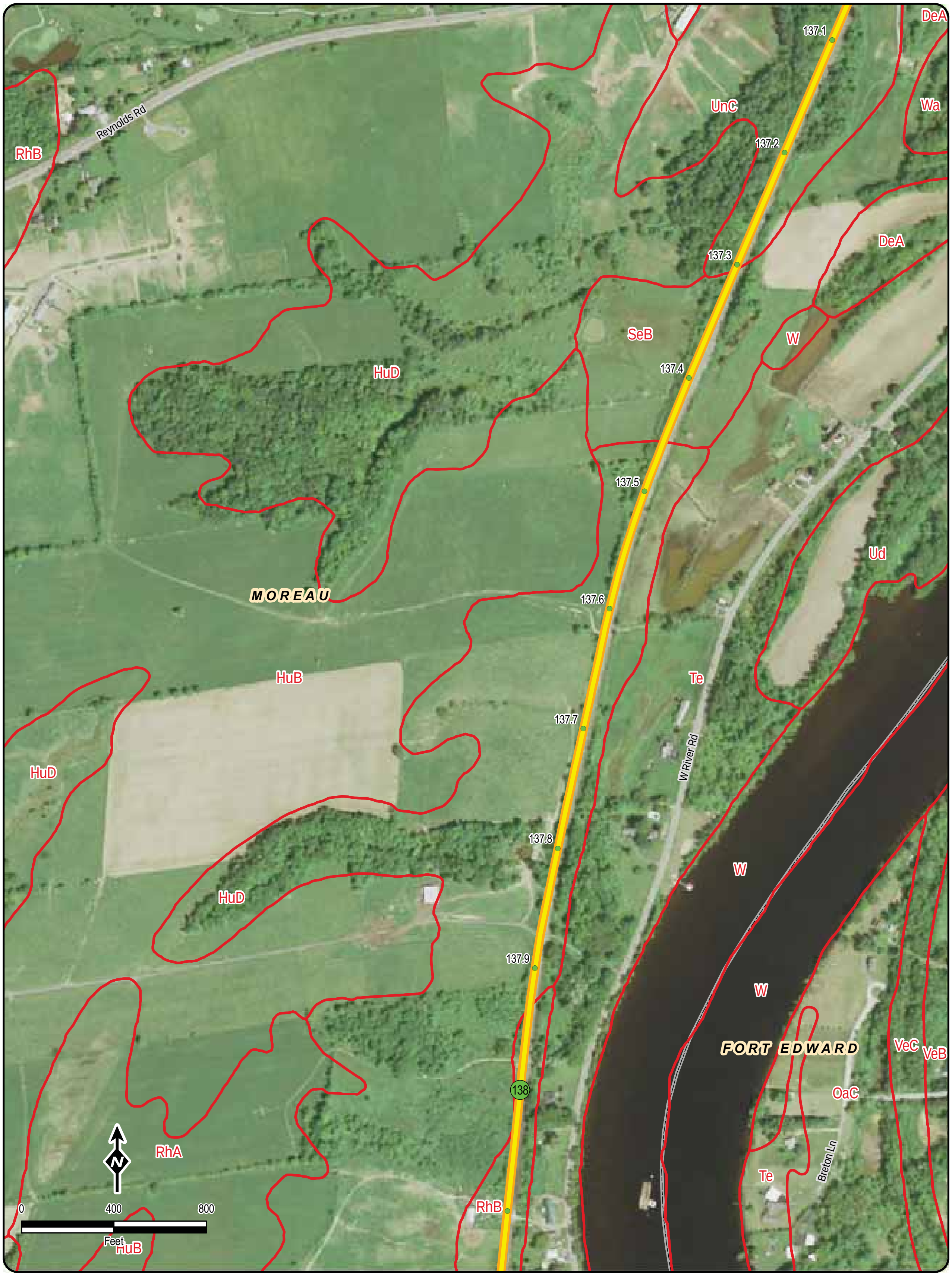
Figure A-2

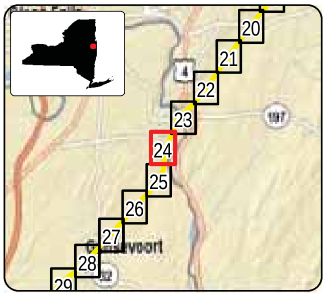
NRCS Soil Mapping

Sheet 23 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

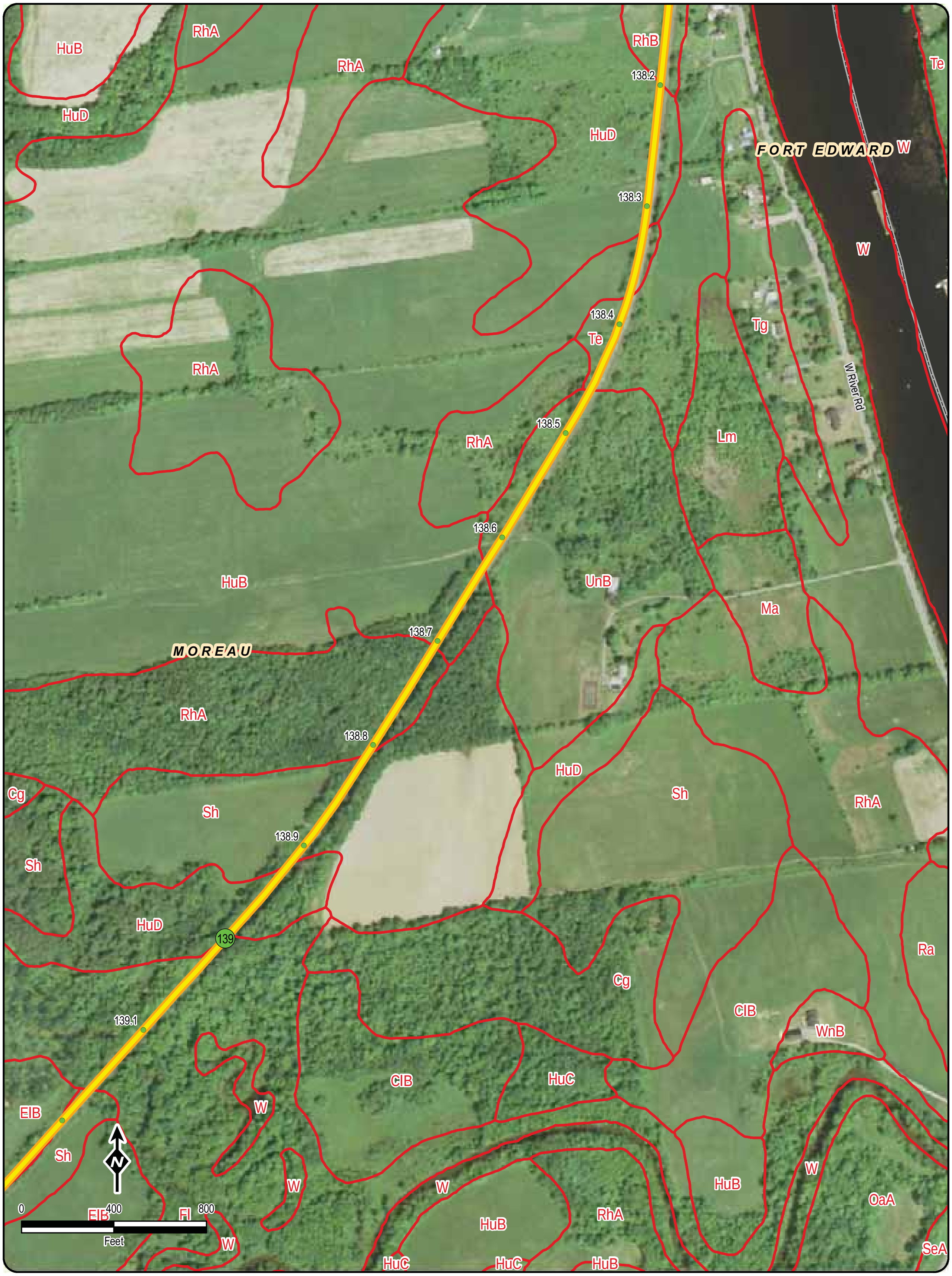
Figure A-2

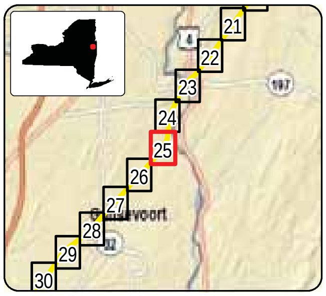
NRCS Soil Mapping

Sheet 24 of 84

Prepared by: HDR | TDI & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
▭ NRCS Soil Boundary
▭ Town Boundary
TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

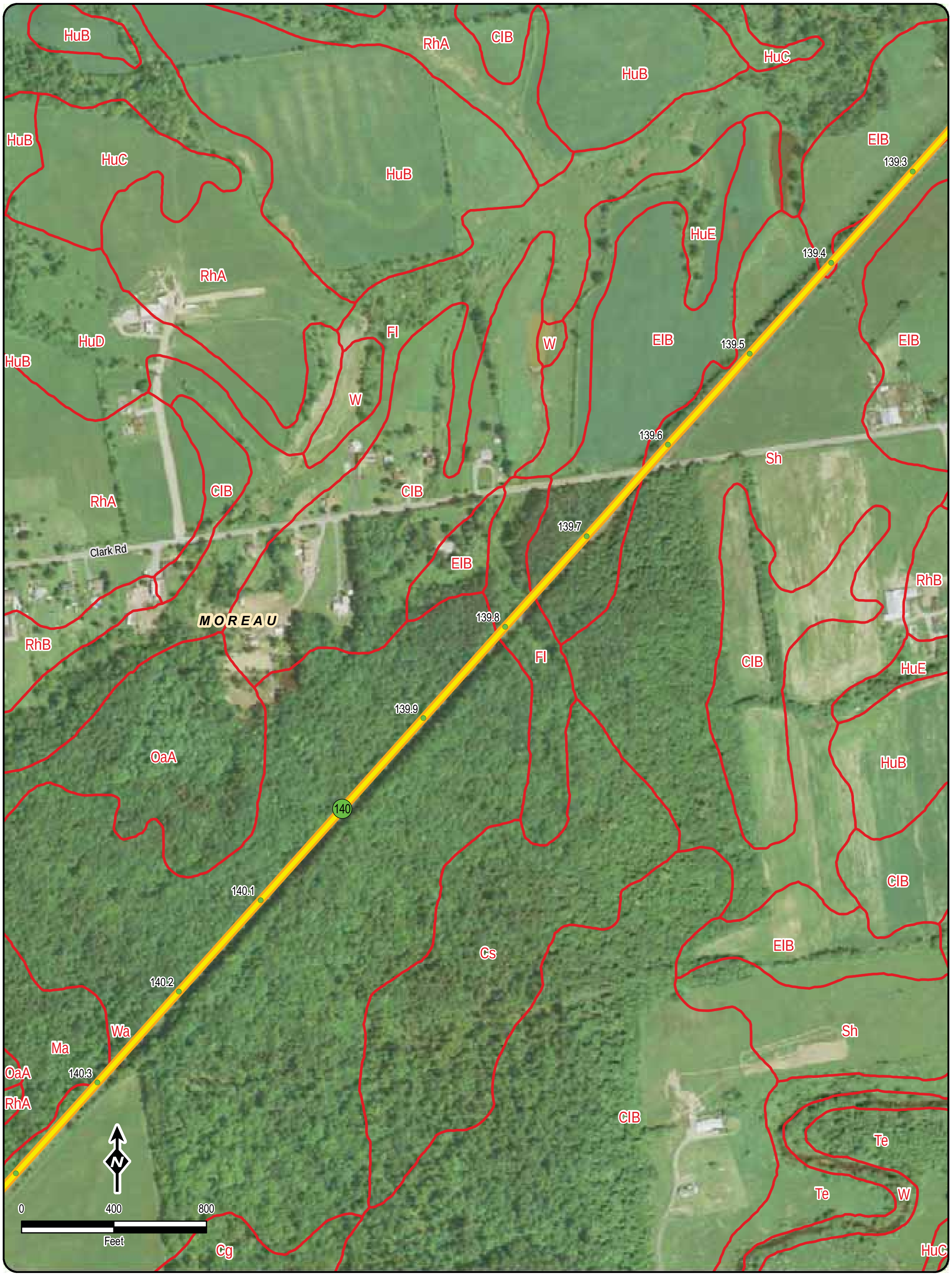
Figure A-2

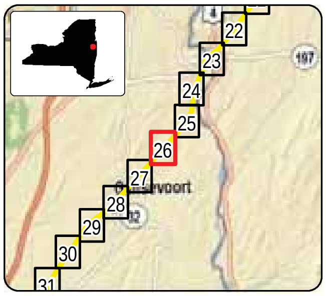
NRCS Soil Mapping

Sheet 25 of 84

Prepared by: HDR | ... & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

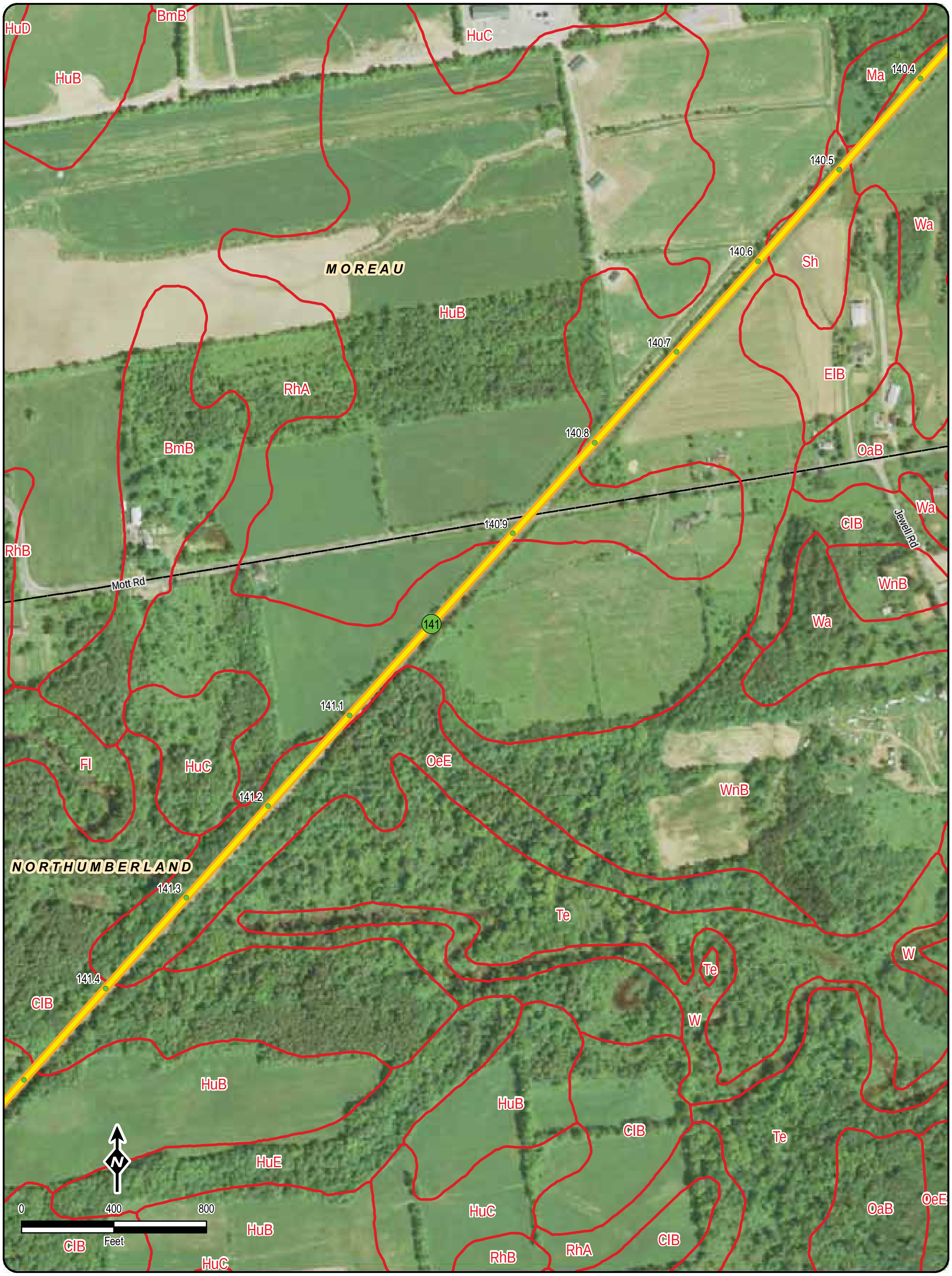
Figure A-2

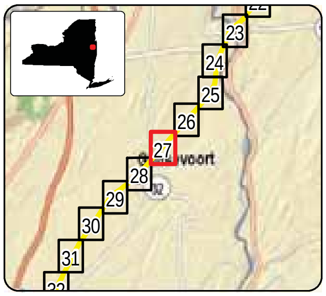
NRCS Soil Mapping

Sheet 26 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

○ Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

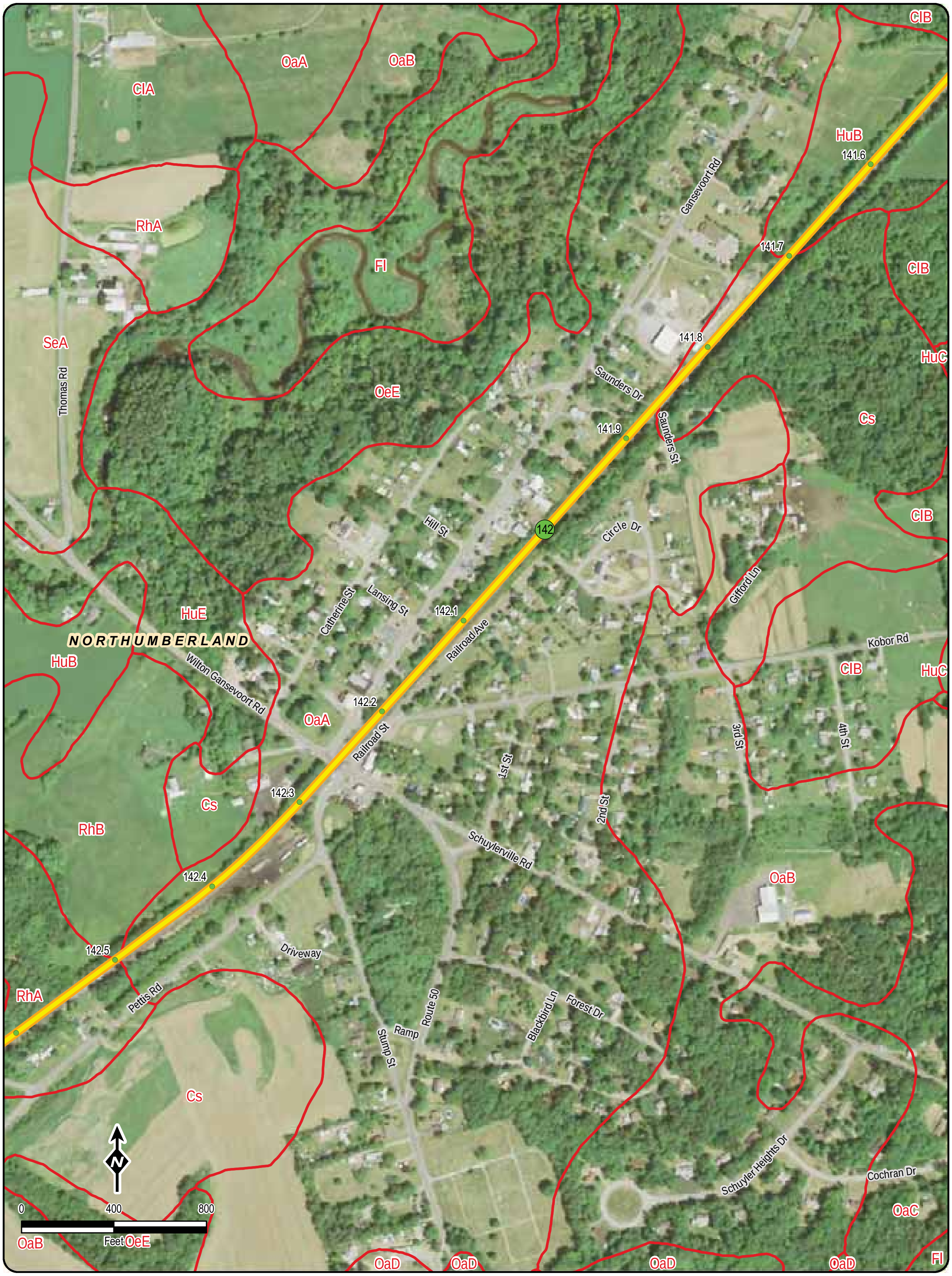
Figure A-2

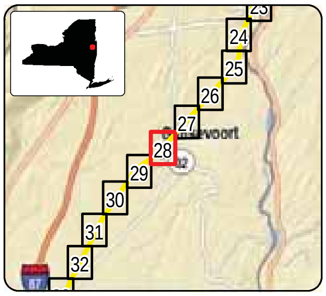
NRCS Soil Mapping

Sheet 27 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- 🟨 Proposed CHPEI Route
- 🟧 Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ▭ Town Boundary
- **TOWN NAME**

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

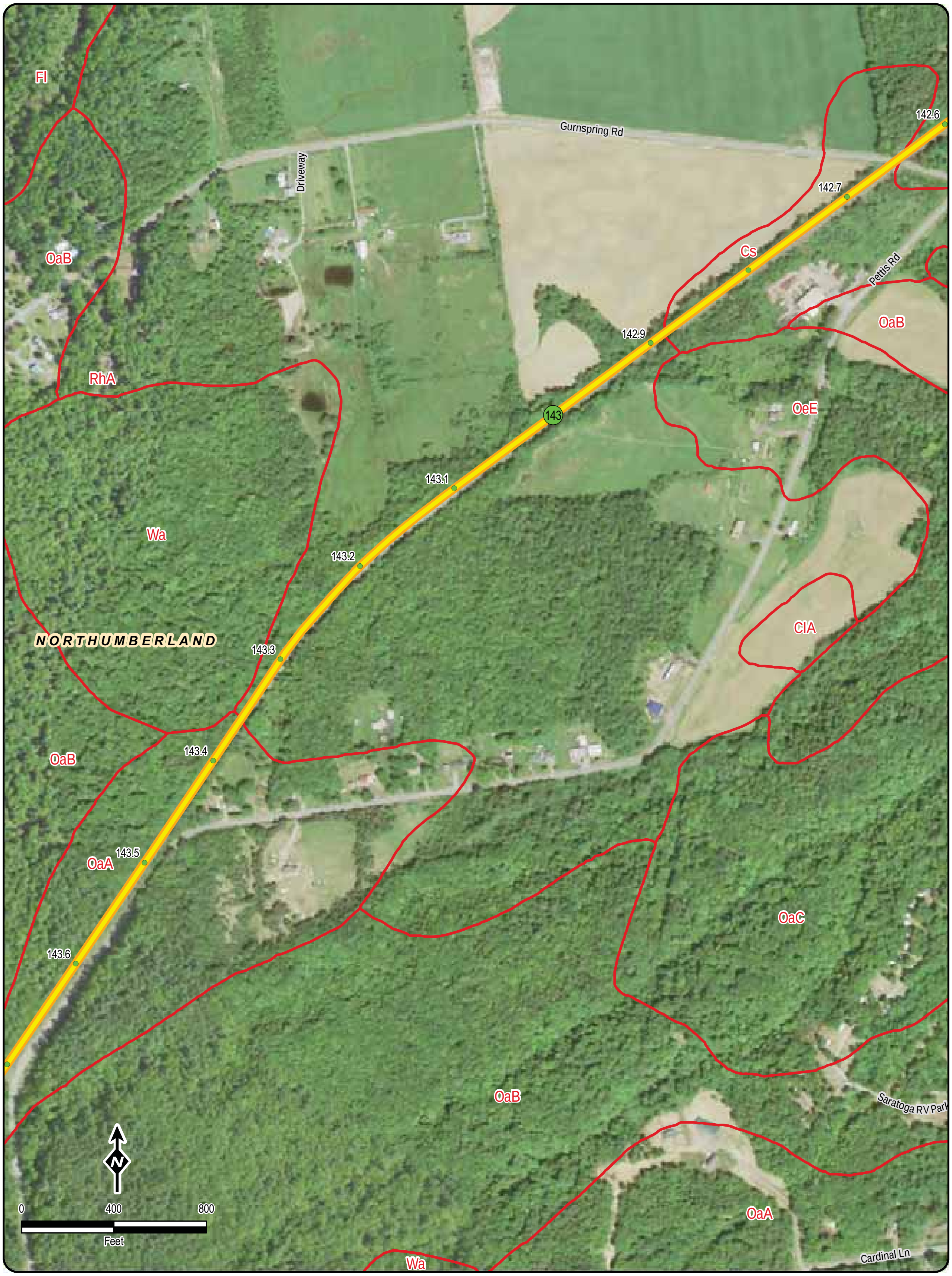
Figure A-2

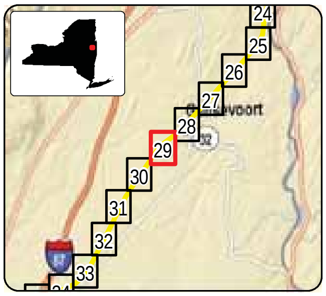
NRCS Soil Mapping

Sheet 28 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

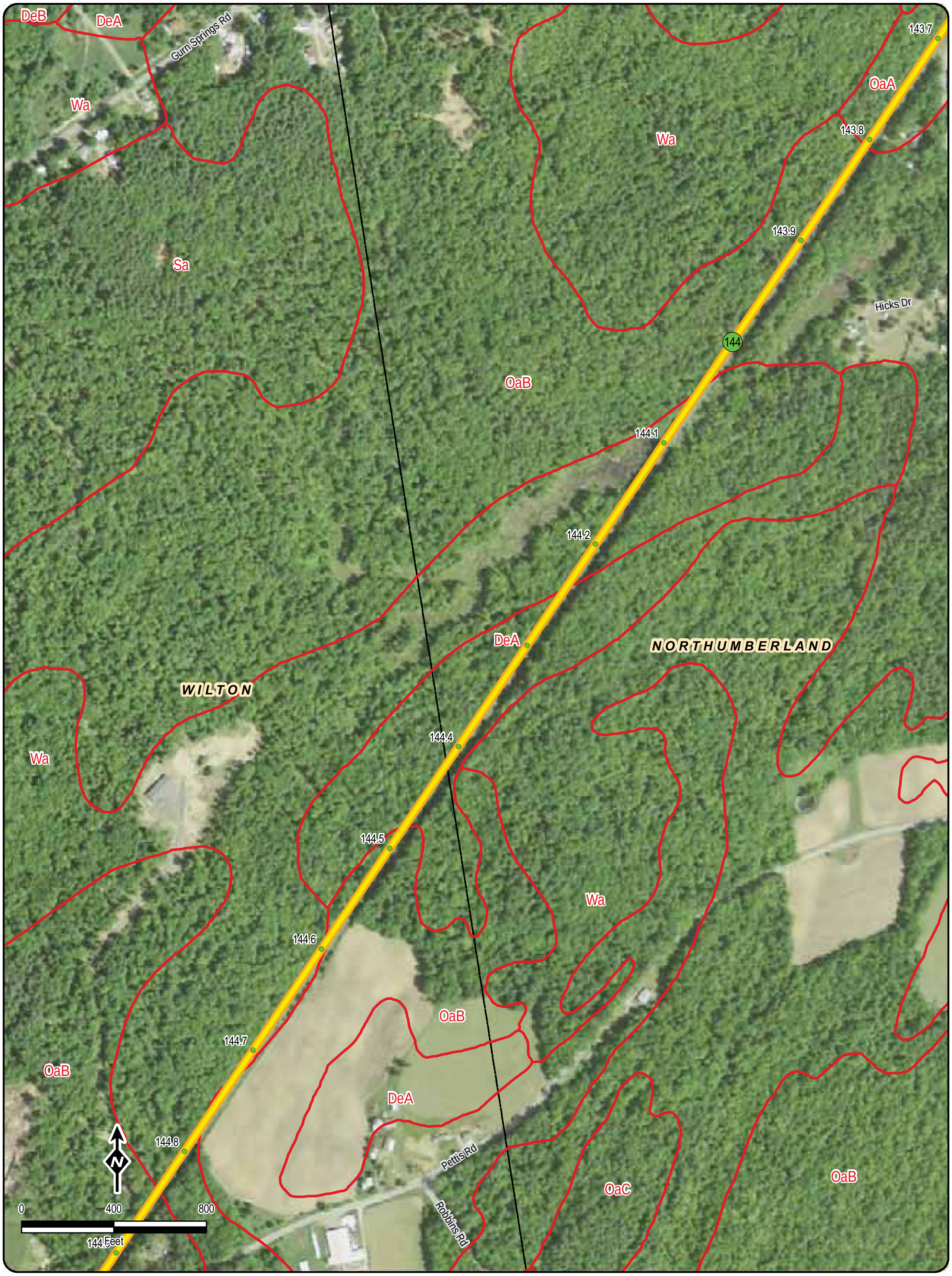
Figure A-2

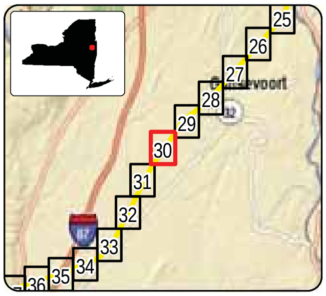
NRCS Soil Mapping

Sheet 29 of 84

Prepared by: & 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

☐ Construction Corridor

● Milepost

▲ Canal Lock

☐ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

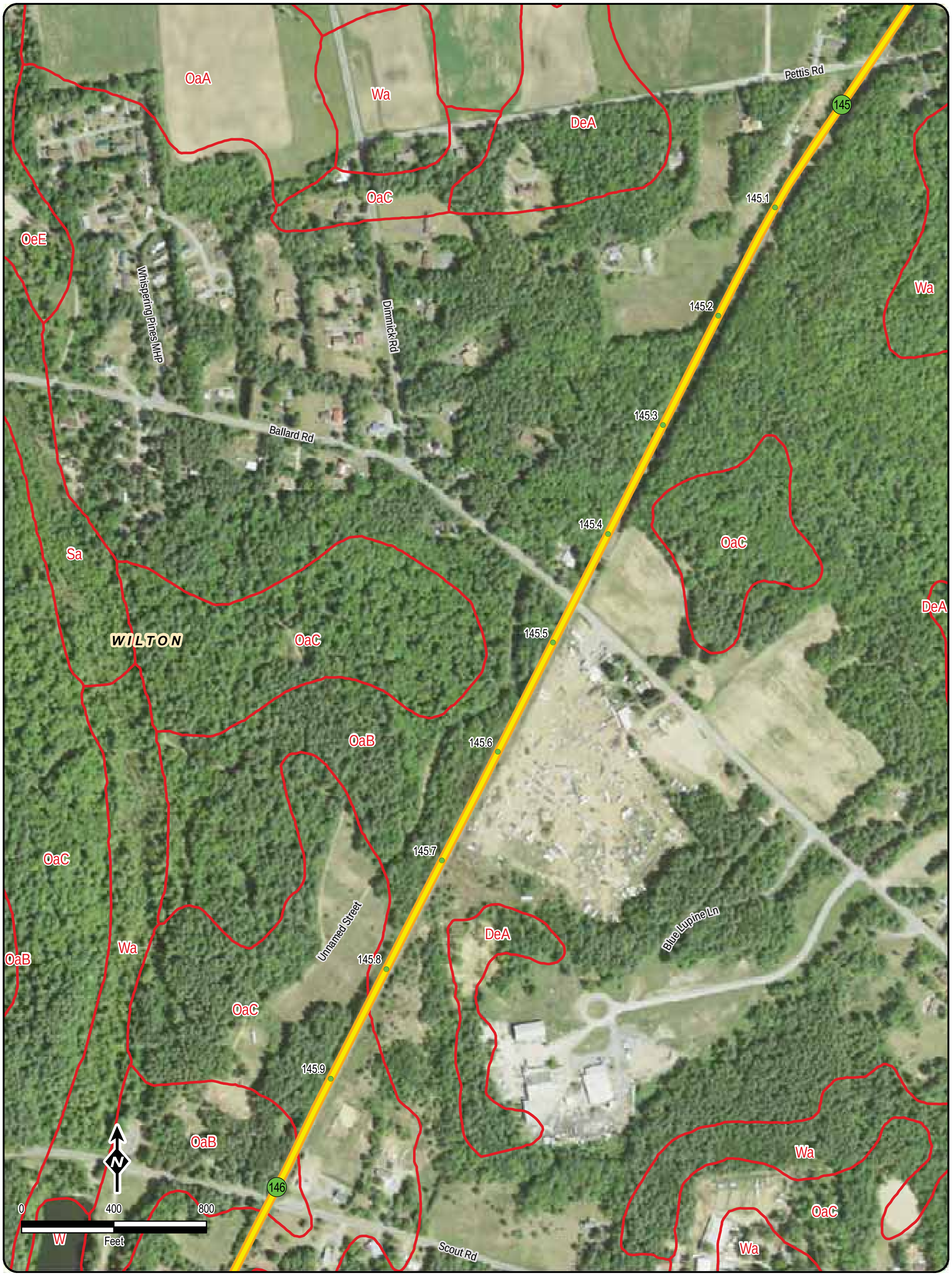
Figure A-2

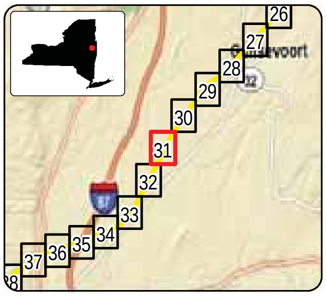
NRCS Soil Mapping

Sheet 30 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

🟨 Proposed CHPEI Route

🟧 Construction Corridor

● Milepost

▲ Canal Lock

🟥 NRCS Soil Boundary

▭ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

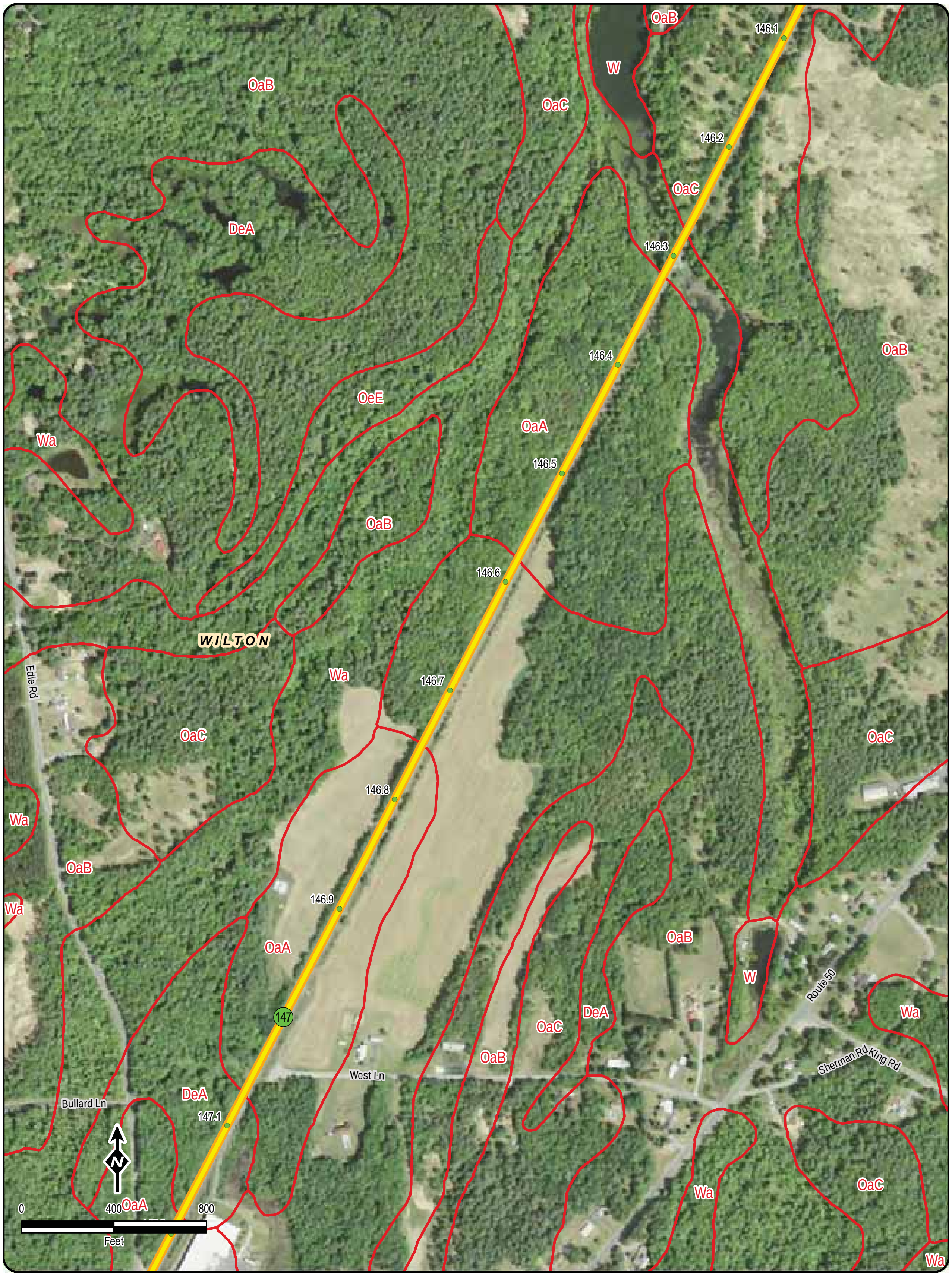
Figure A-2

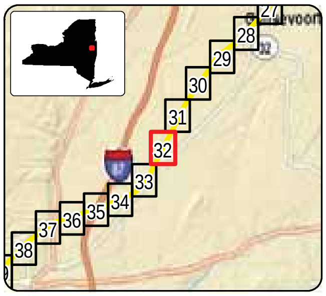
NRCS Soil Mapping

Sheet 31 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

🟨 Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

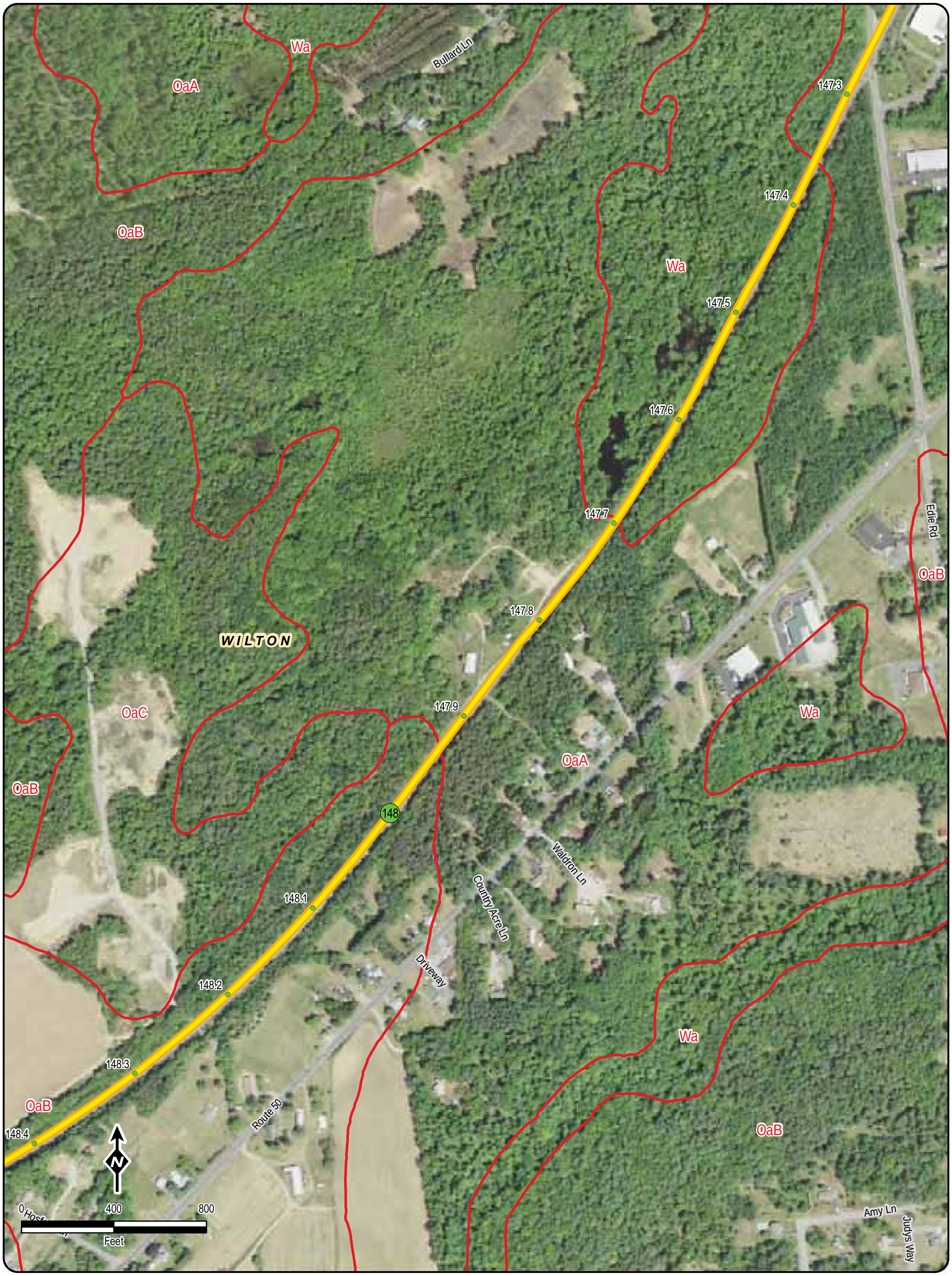
Figure A-2

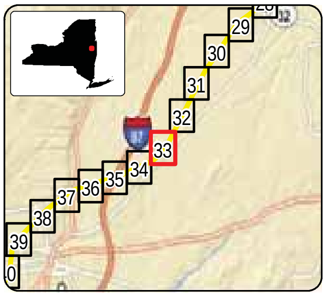
NRCS Soil Mapping

Sheet 32 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

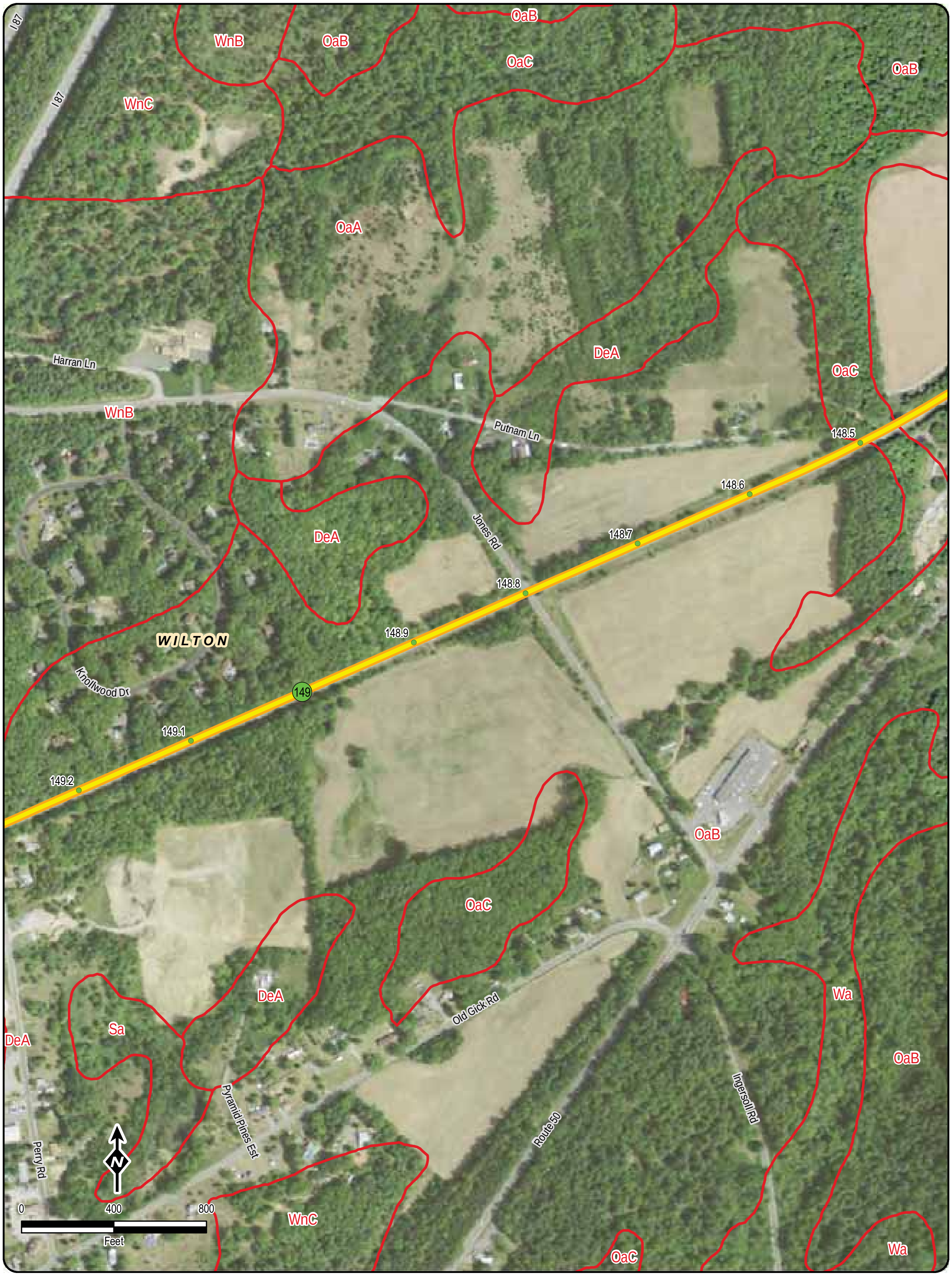
Figure A-2

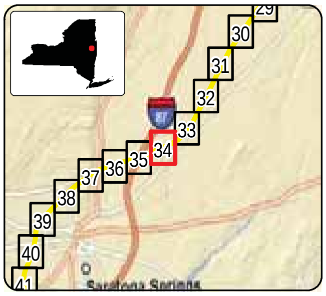
NRCS Soil Mapping

Sheet 33 of 84

Prepared by: HDR | ... & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- 🟨 Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

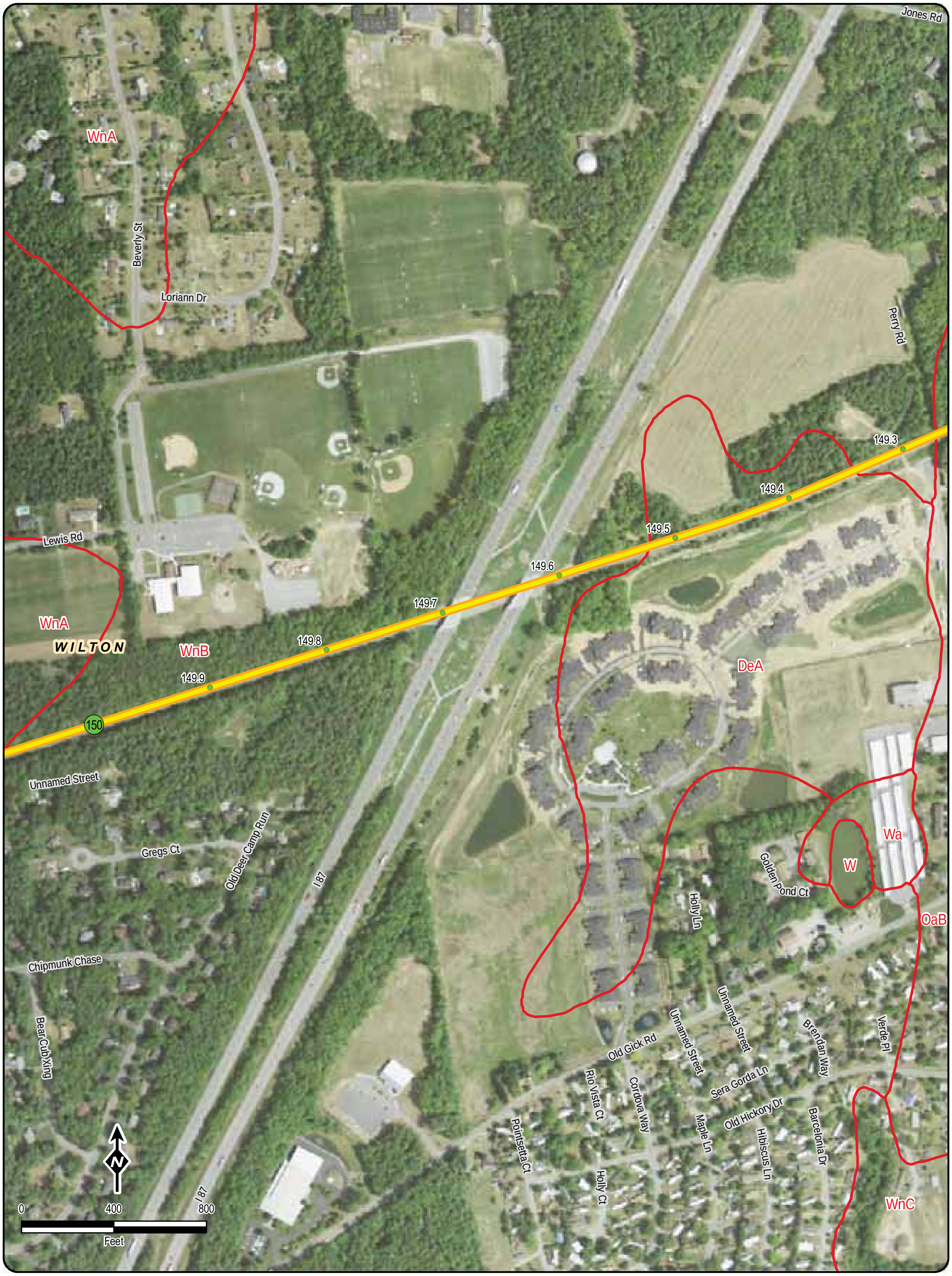
Figure A-2

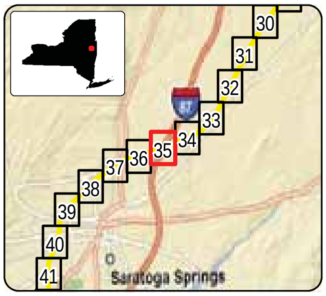
NRCS Soil Mapping

Sheet 34 of 84

Prepared by: HDR | CRA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

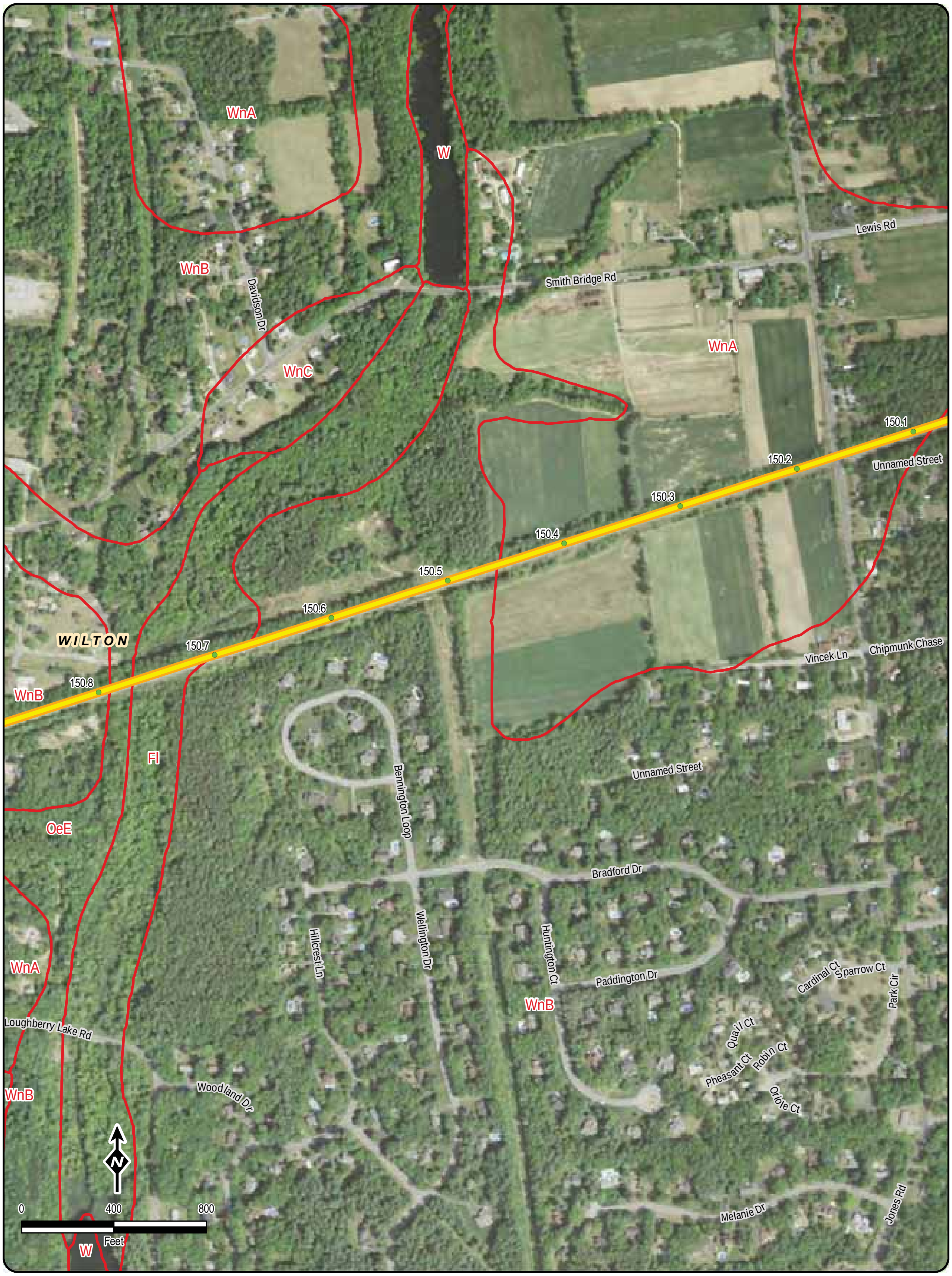
Figure A-2

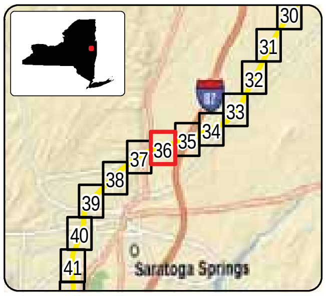
NRCS Soil Mapping

Sheet 35 of 84

Prepared by: HDR | DTA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

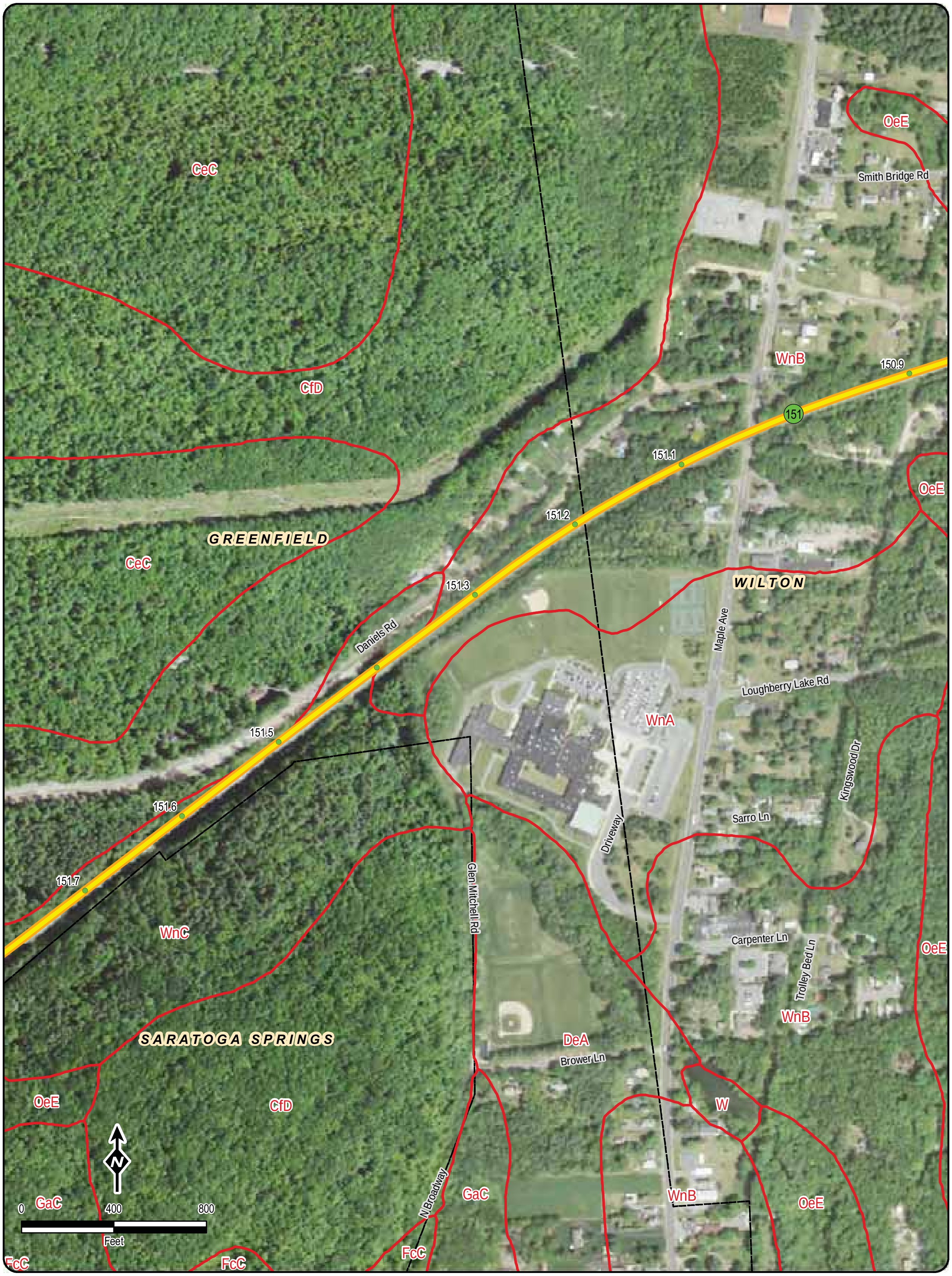
Figure A-2

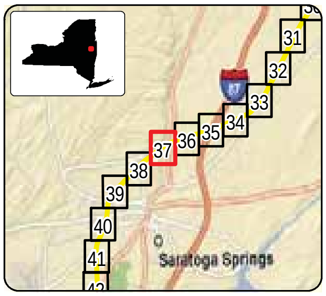
NRCS Soil Mapping

Sheet 36 of 84

Prepared by: HDR | CRA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

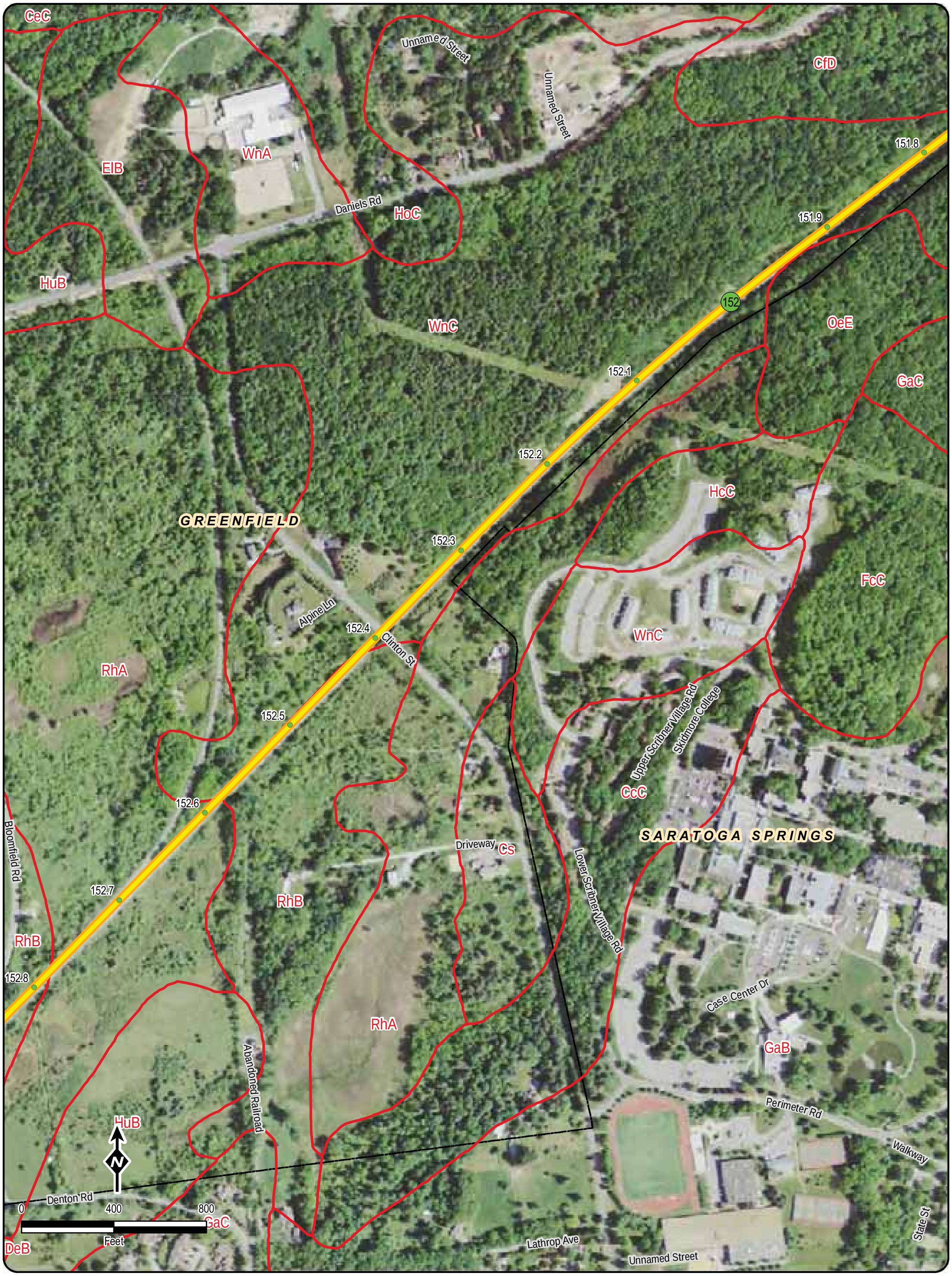
Figure A-2

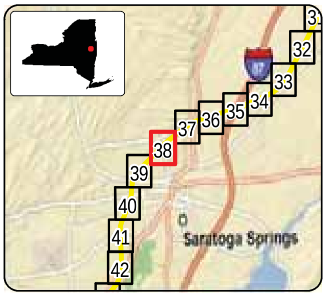
NRCS Soil Mapping

Sheet 37 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- 🟨 Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

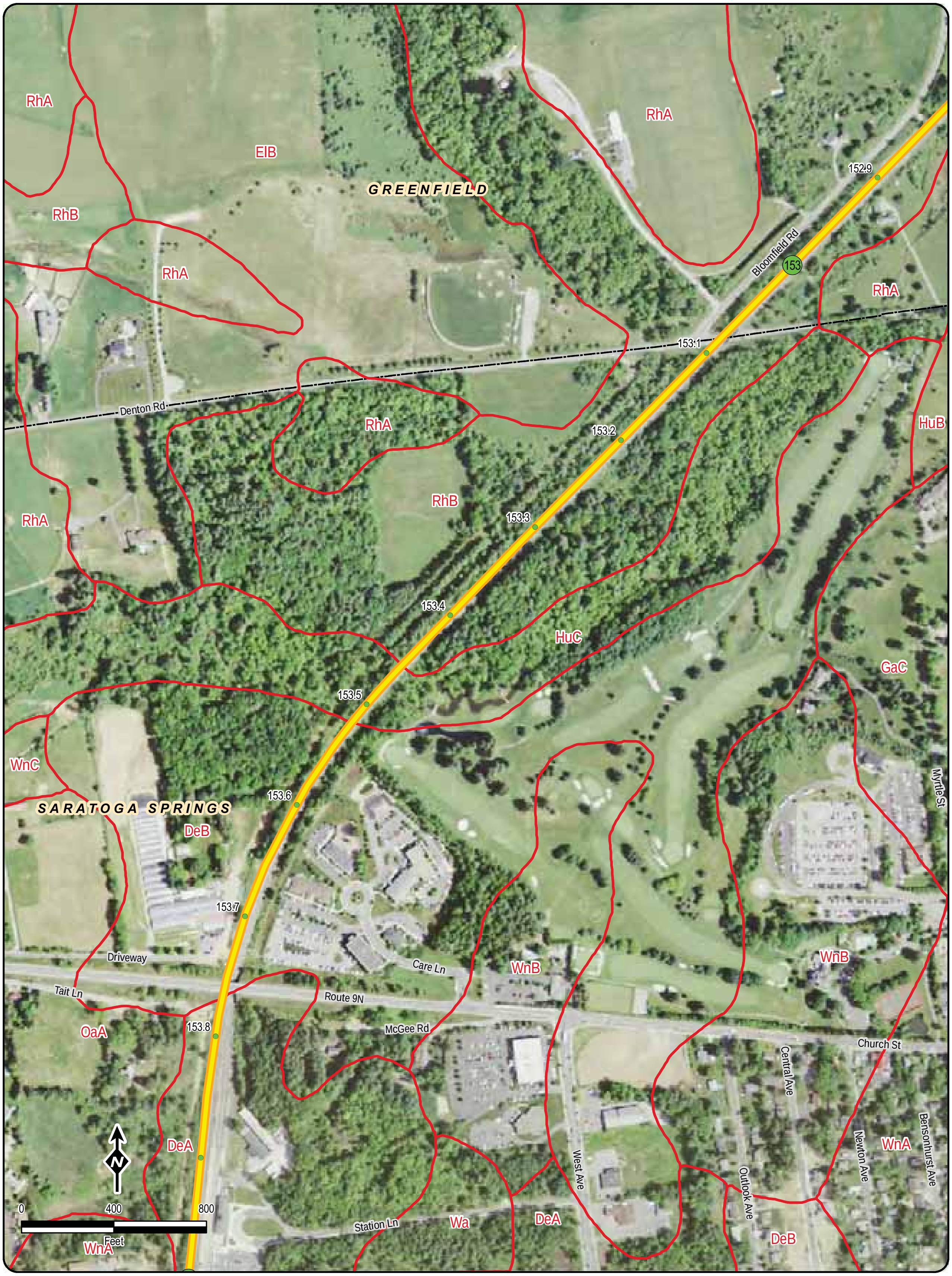
Figure A-2

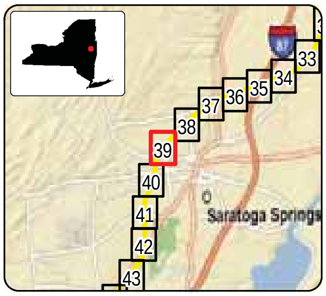
NRCS Soil Mapping

Sheet 38 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

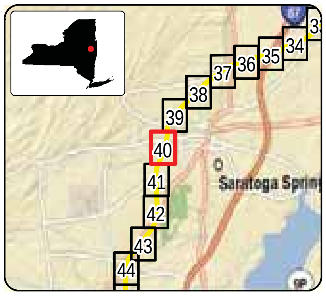
Figure A-2

NRCS Soil Mapping

Sheet 39 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- Proposed CHPEI Route
- Construction Corridor
- ● Milepost
- ▲ Canal Lock
- NRCS Soil Boundary
- Town Boundary
- *TOWN NAME*

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

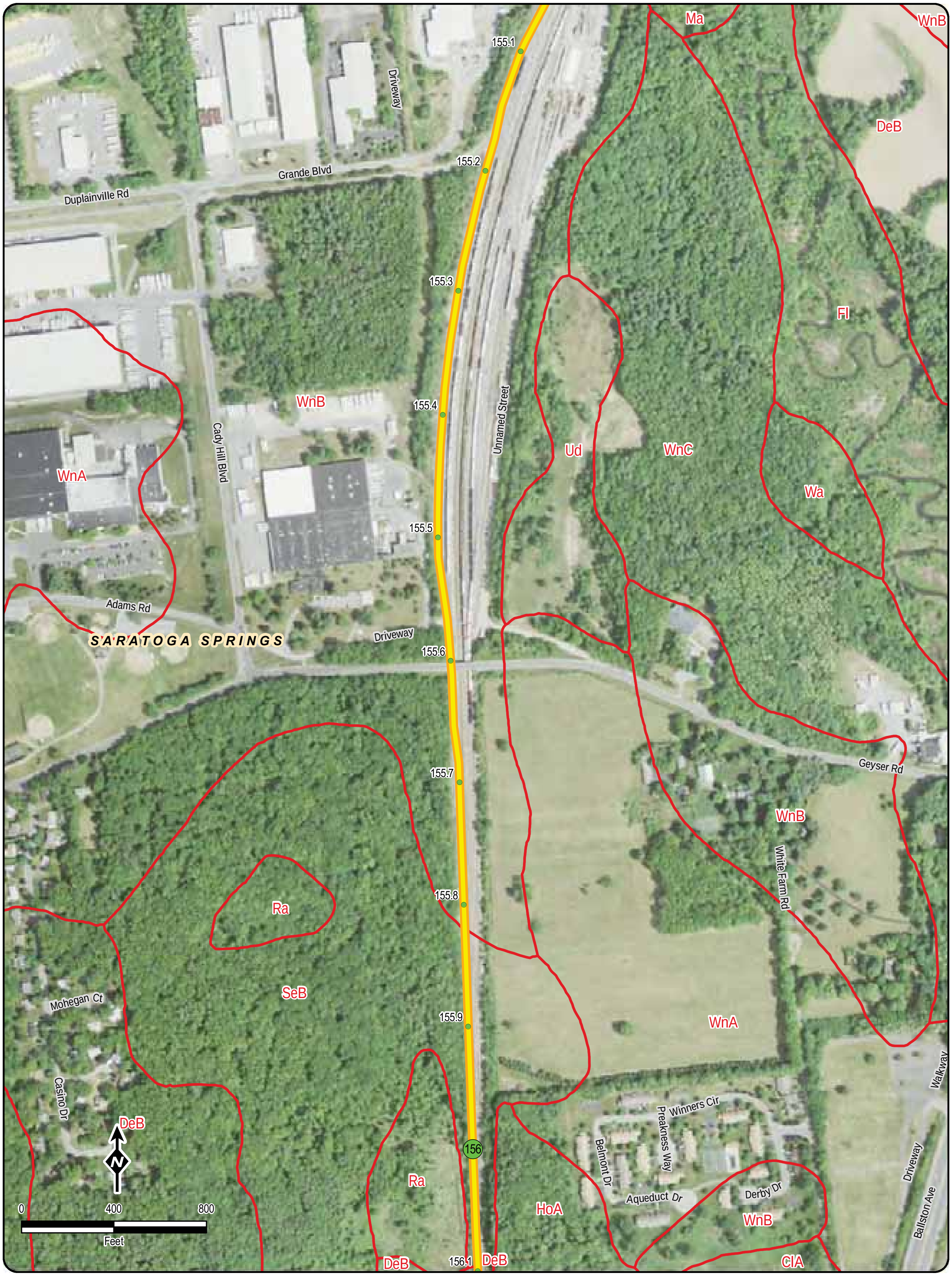
Figure A-2

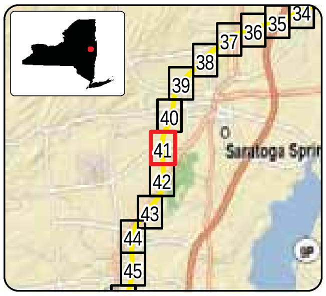
NRCS Soil Mapping

Sheet 40 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

— Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

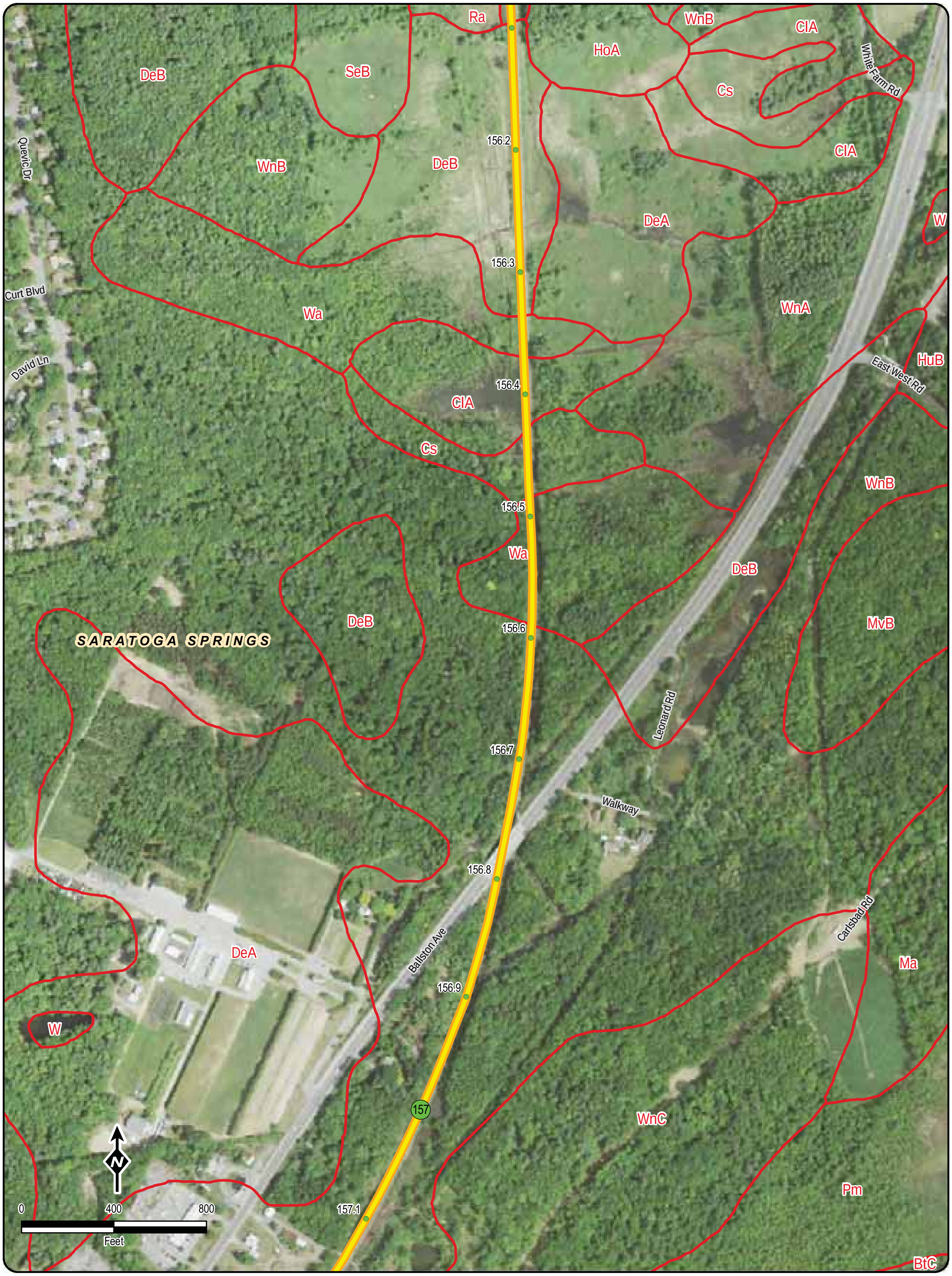
Figure A-2

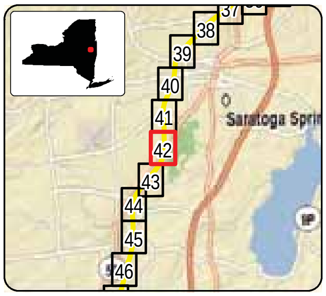
NRCS Soil Mapping

Sheet 41 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ☐ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ☐ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

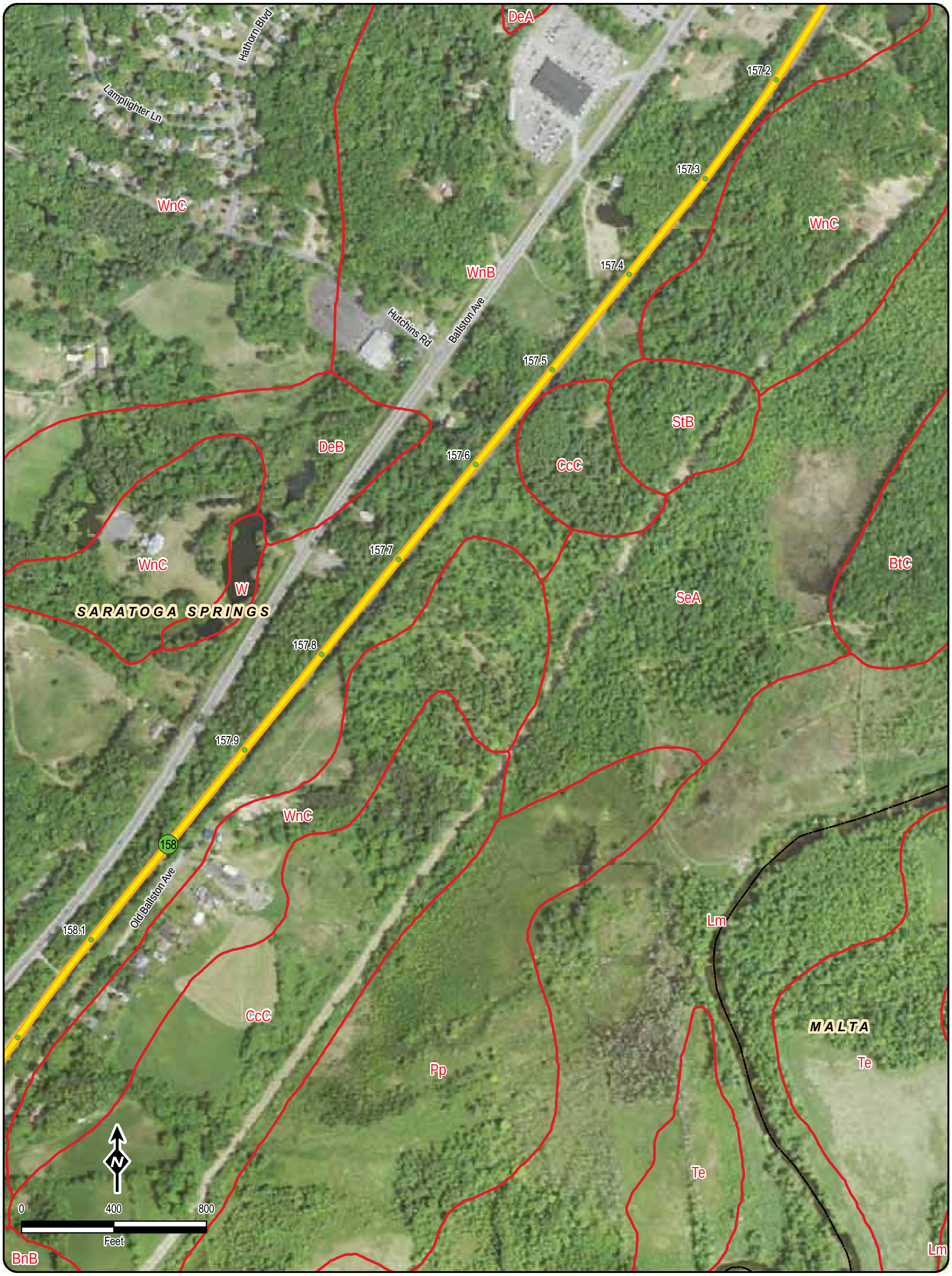
Figure A-2

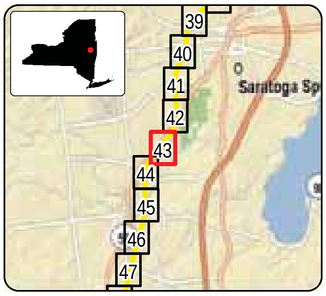
NRCS Soil Mapping

Sheet 42 of 84

Prepared by: HDR | TRC & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

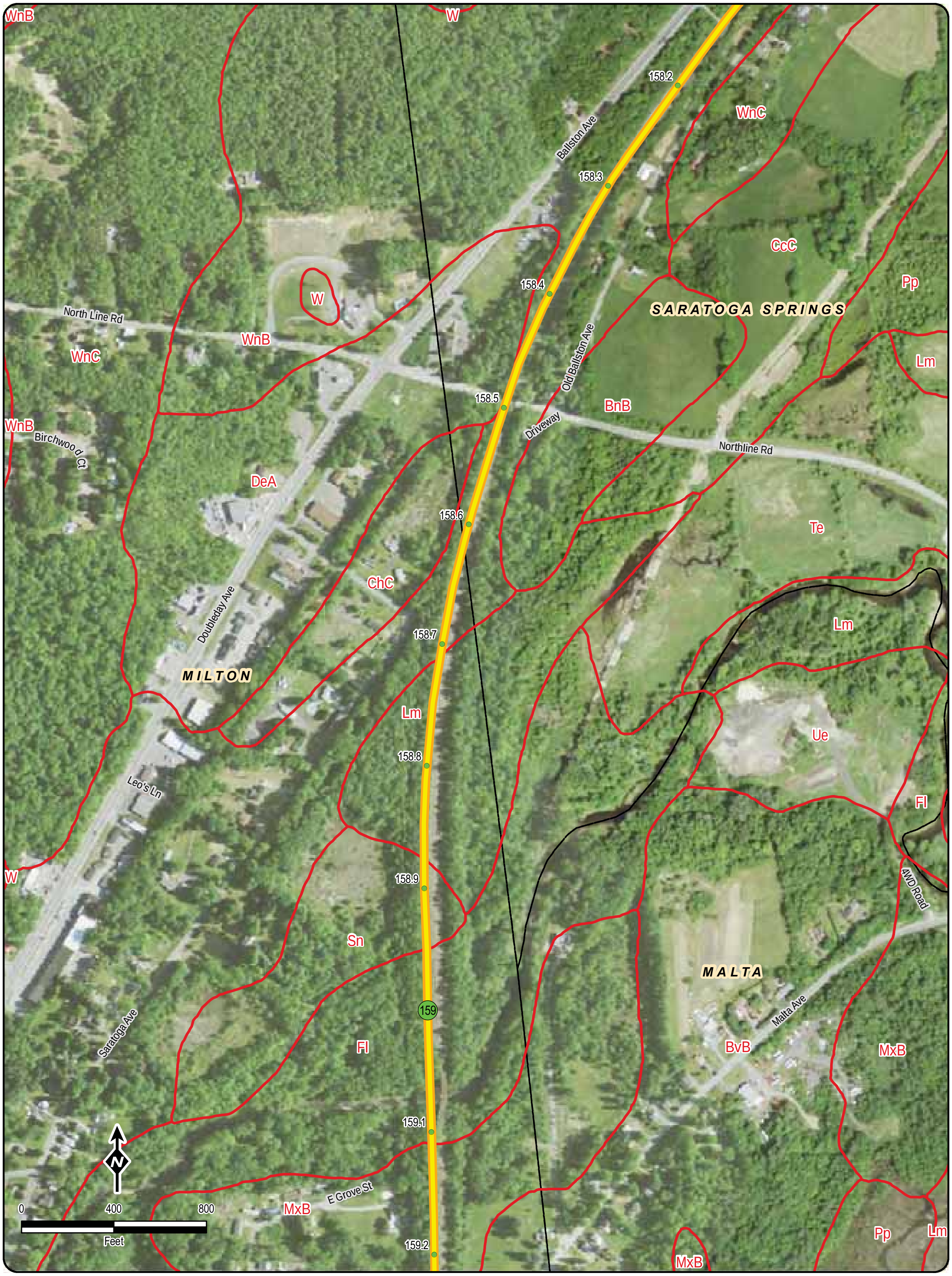
Figure A-2

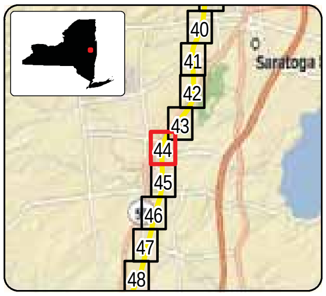
NRCS Soil Mapping

Sheet 43 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

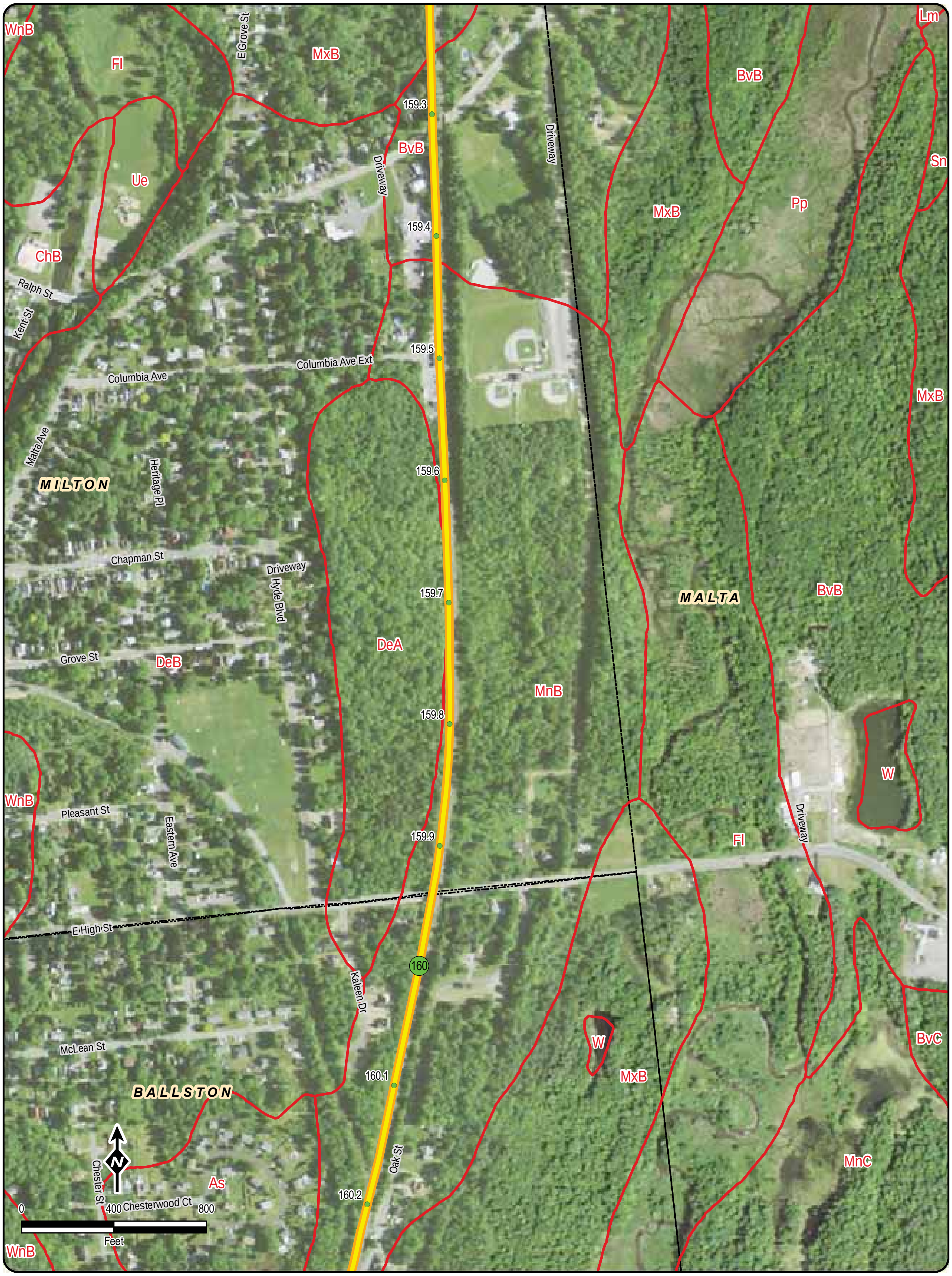
Figure A-2

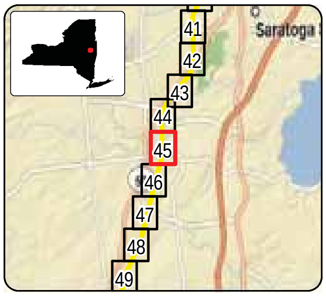
NRCS Soil Mapping

Sheet 44 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- Proposed CHPEI Route
- Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

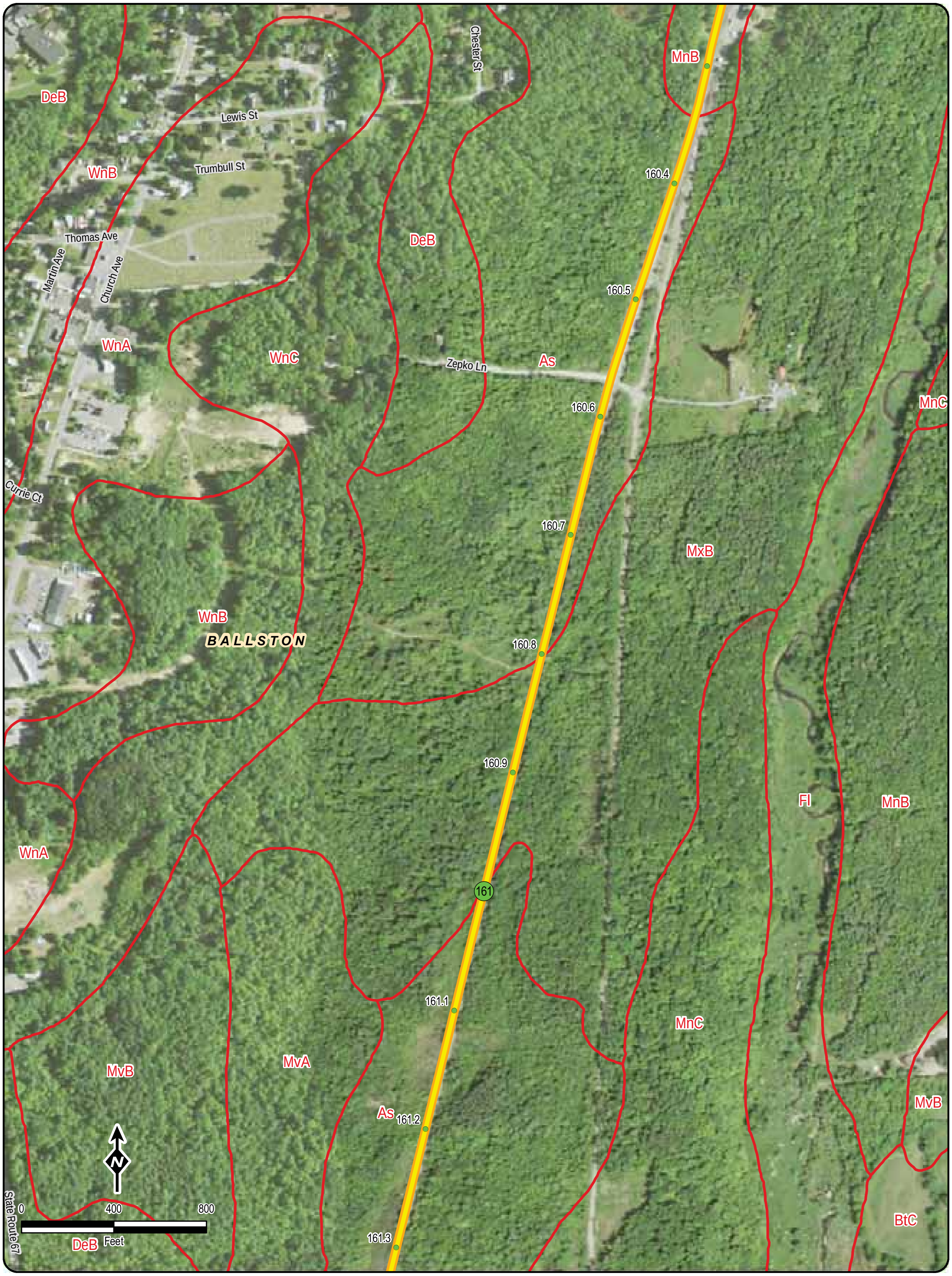
Figure A-2

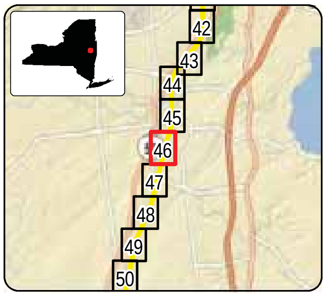
NRCS Soil Mapping

Sheet 45 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

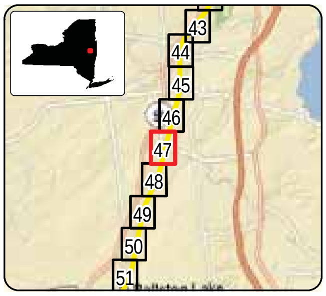
Figure A-2

NRCS Soil Mapping

Sheet 46 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- 🟨 Proposed CHPEI Route
- 🟧 Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

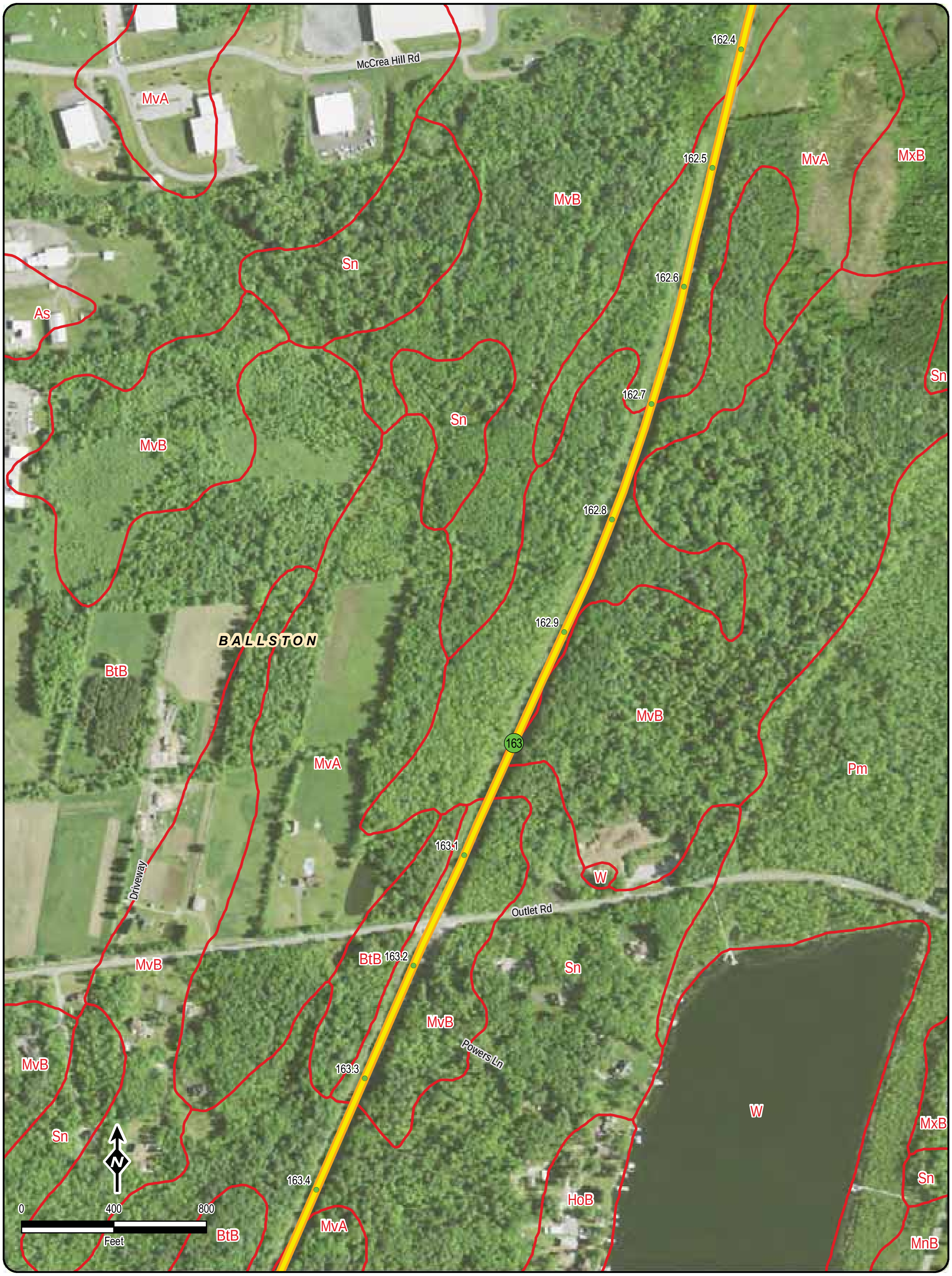
Figure A-2

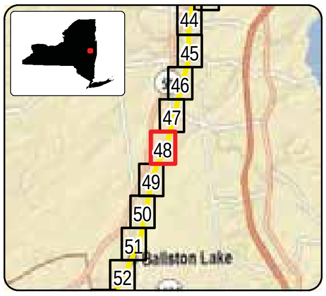
NRCS Soil Mapping

Sheet 47 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- *TOWN NAME*

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

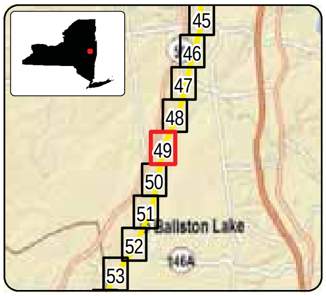
Figure A-2

NRCS Soil Mapping

Sheet 48 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- — Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

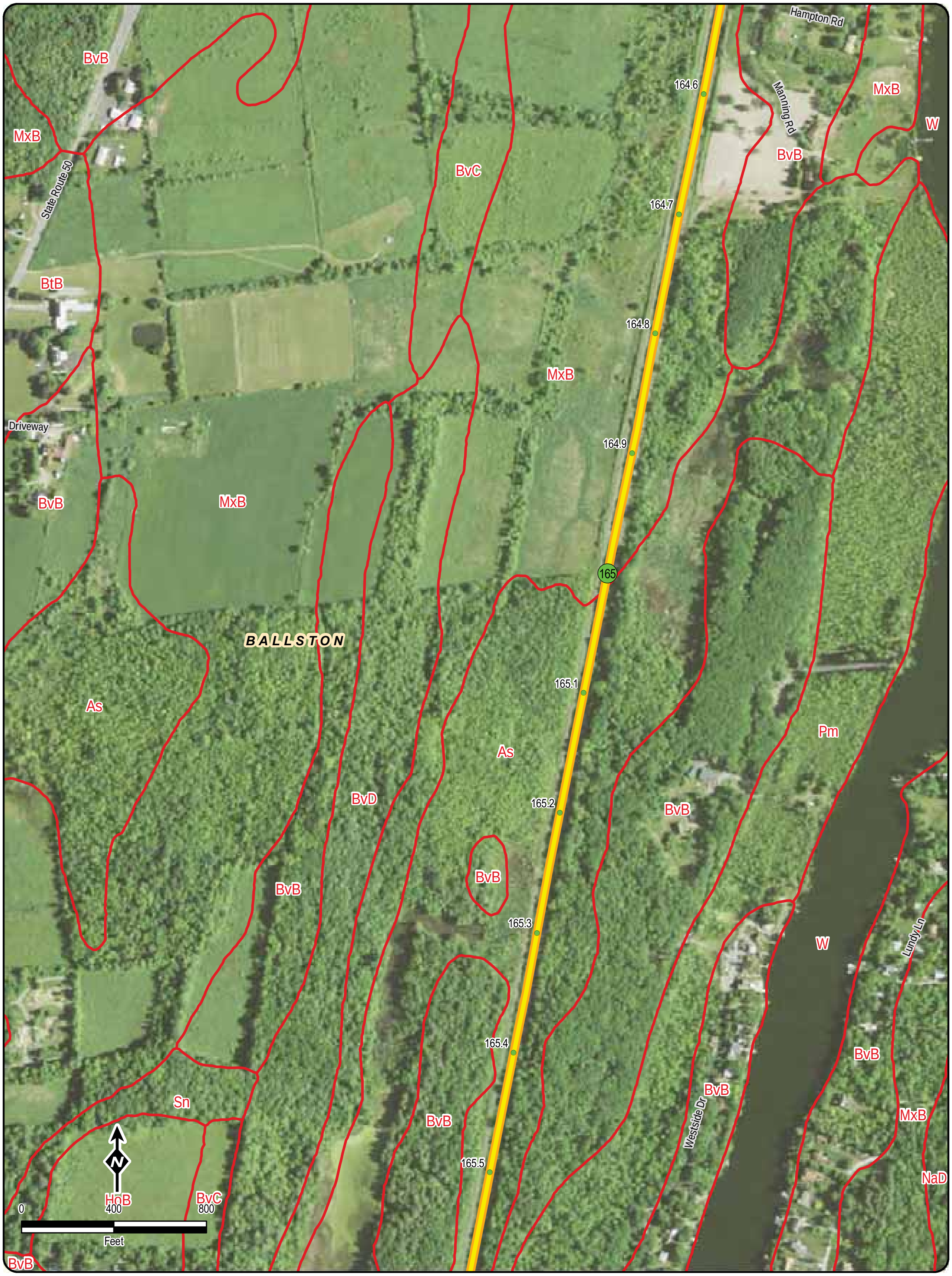
Figure A-2

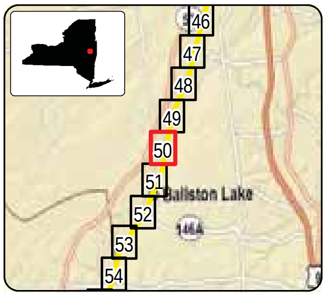
NRCS Soil Mapping

Sheet 49 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ▭ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

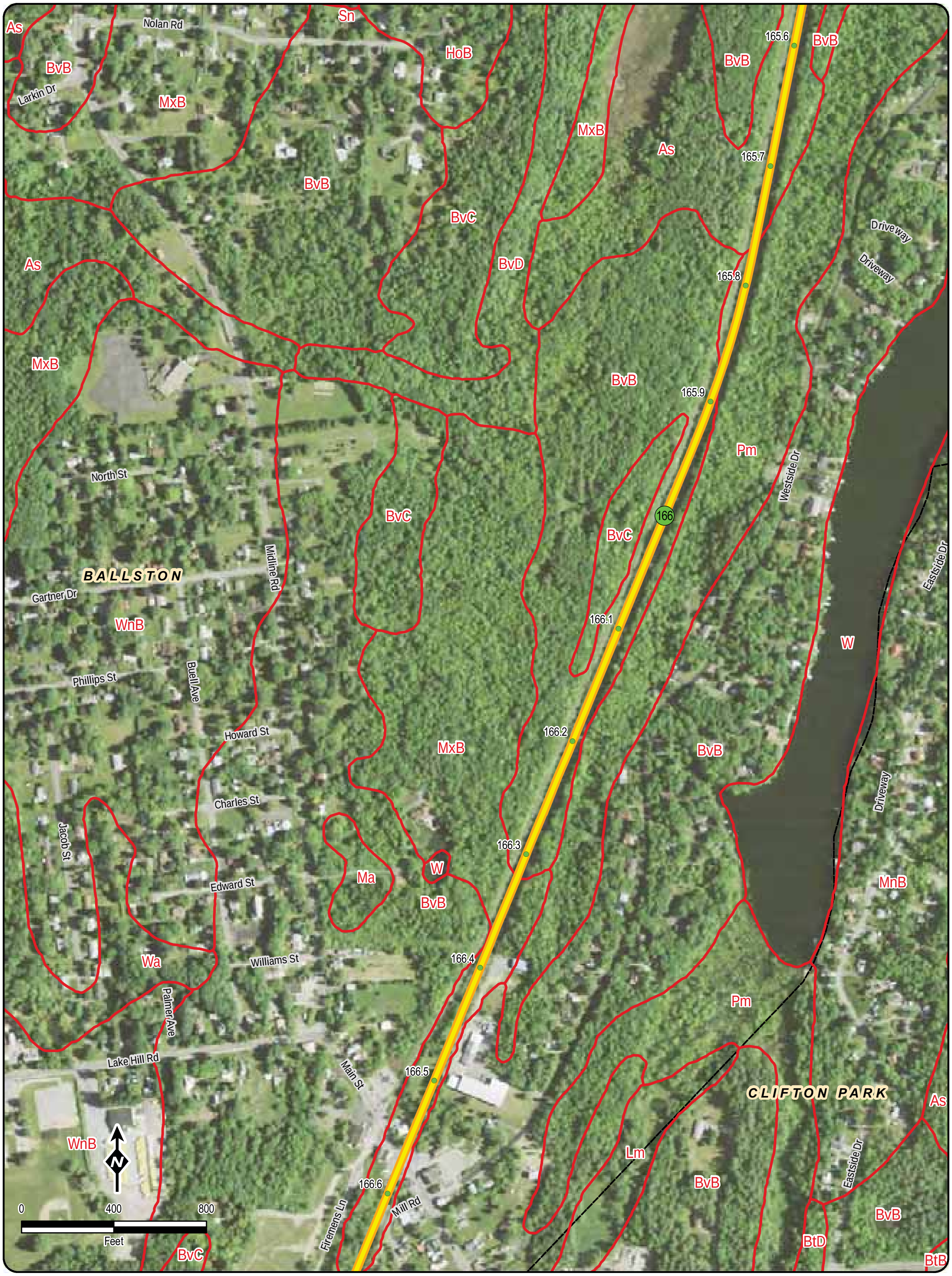
Figure A-2

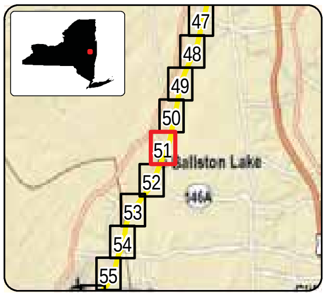
NRCS Soil Mapping

Sheet 50 of 84

Prepared by: HDR | PFTA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

🟨 Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

🟥 NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

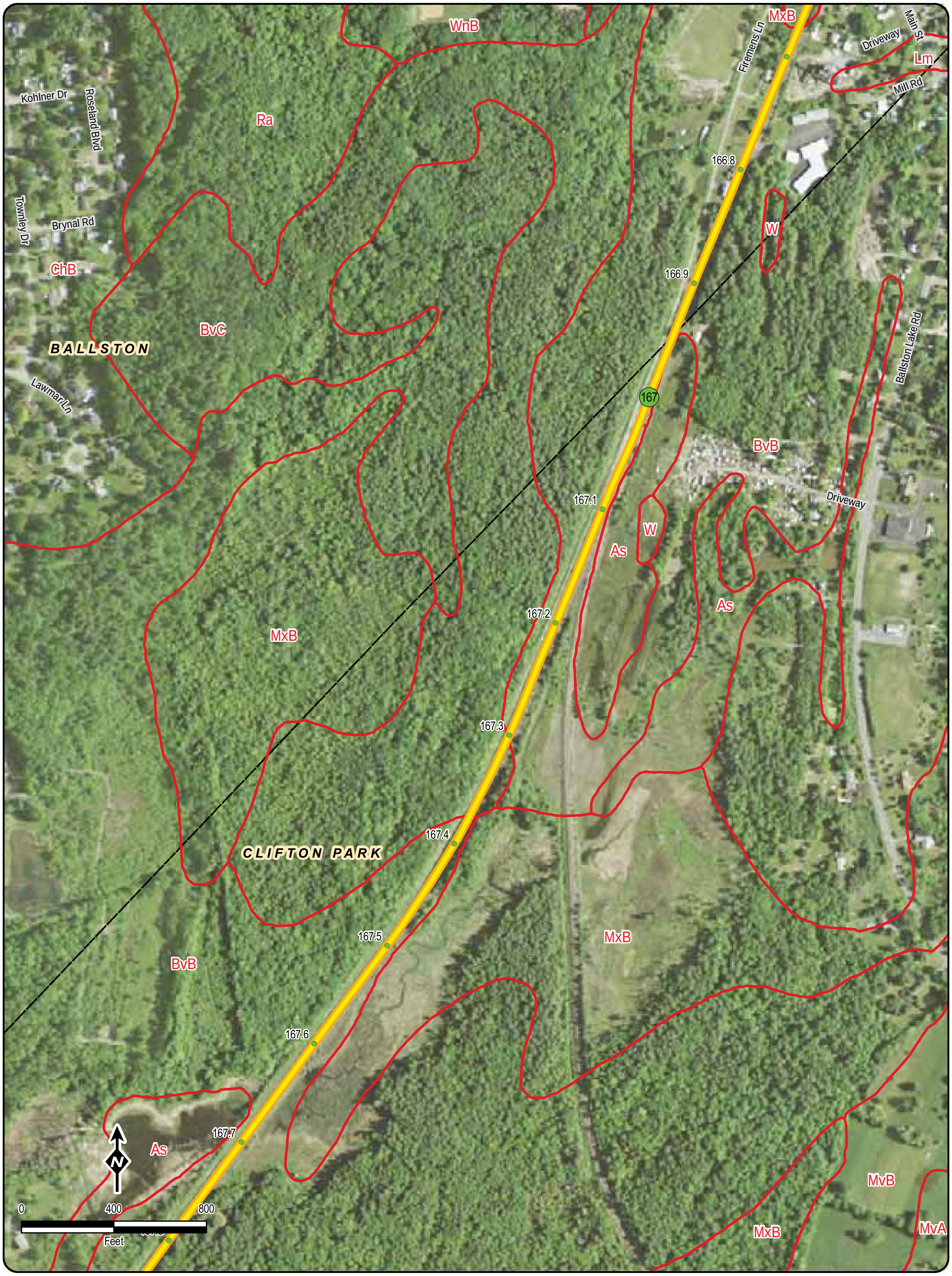
Figure A-2

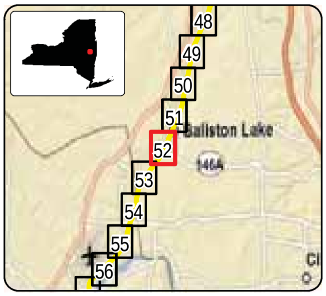
NRCS Soil Mapping

Sheet 51 of 84

Prepared by: HDR | [illegible] & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

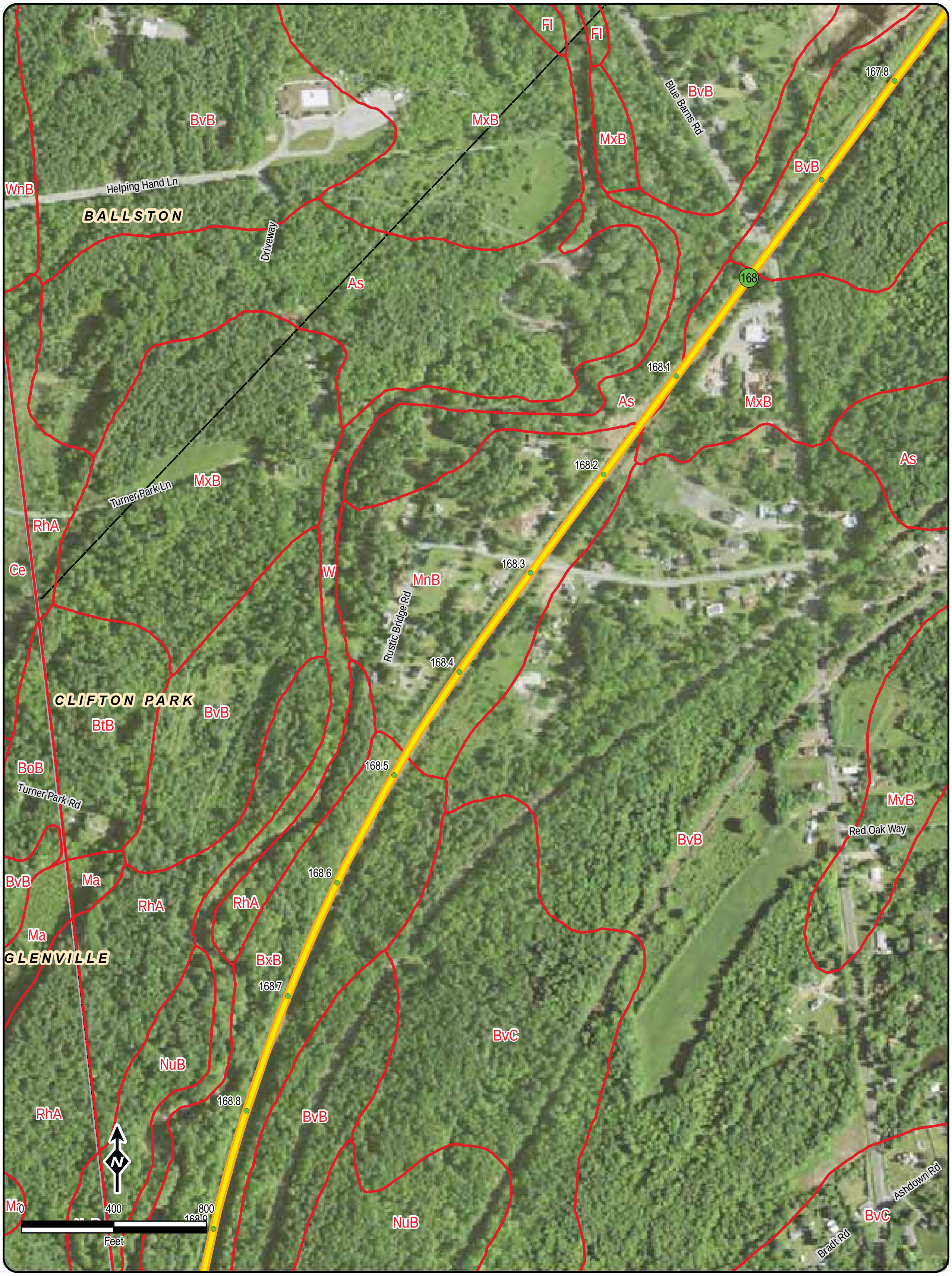
Figure A-2

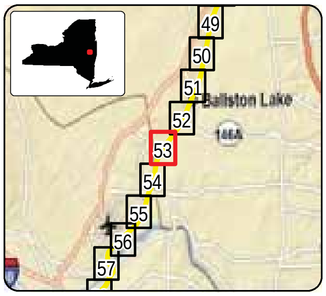
NRCS Soil Mapping

Sheet 52 of 84

Prepared by: HDR | DTA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

▭ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

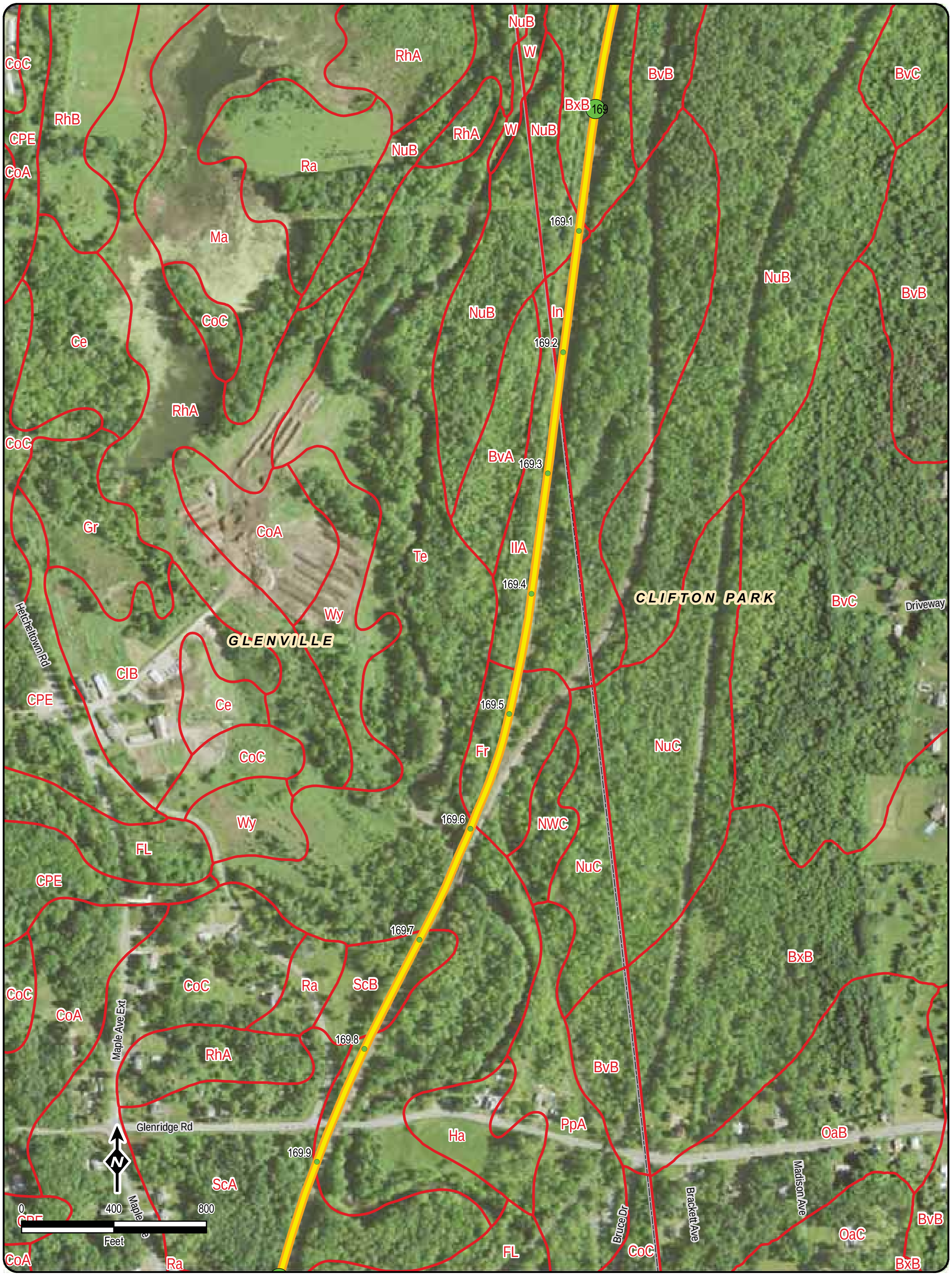
Figure A-2

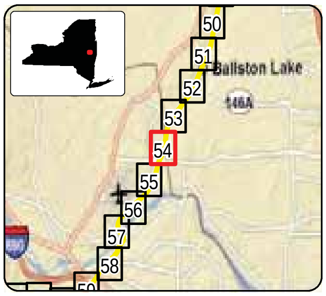
NRCS Soil Mapping

Sheet 53 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

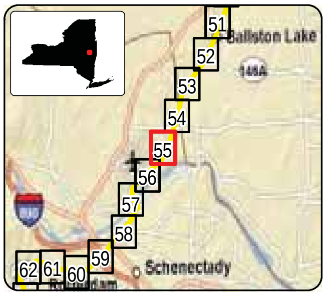
Figure A-2

NRCS Soil Mapping

Sheet 54 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

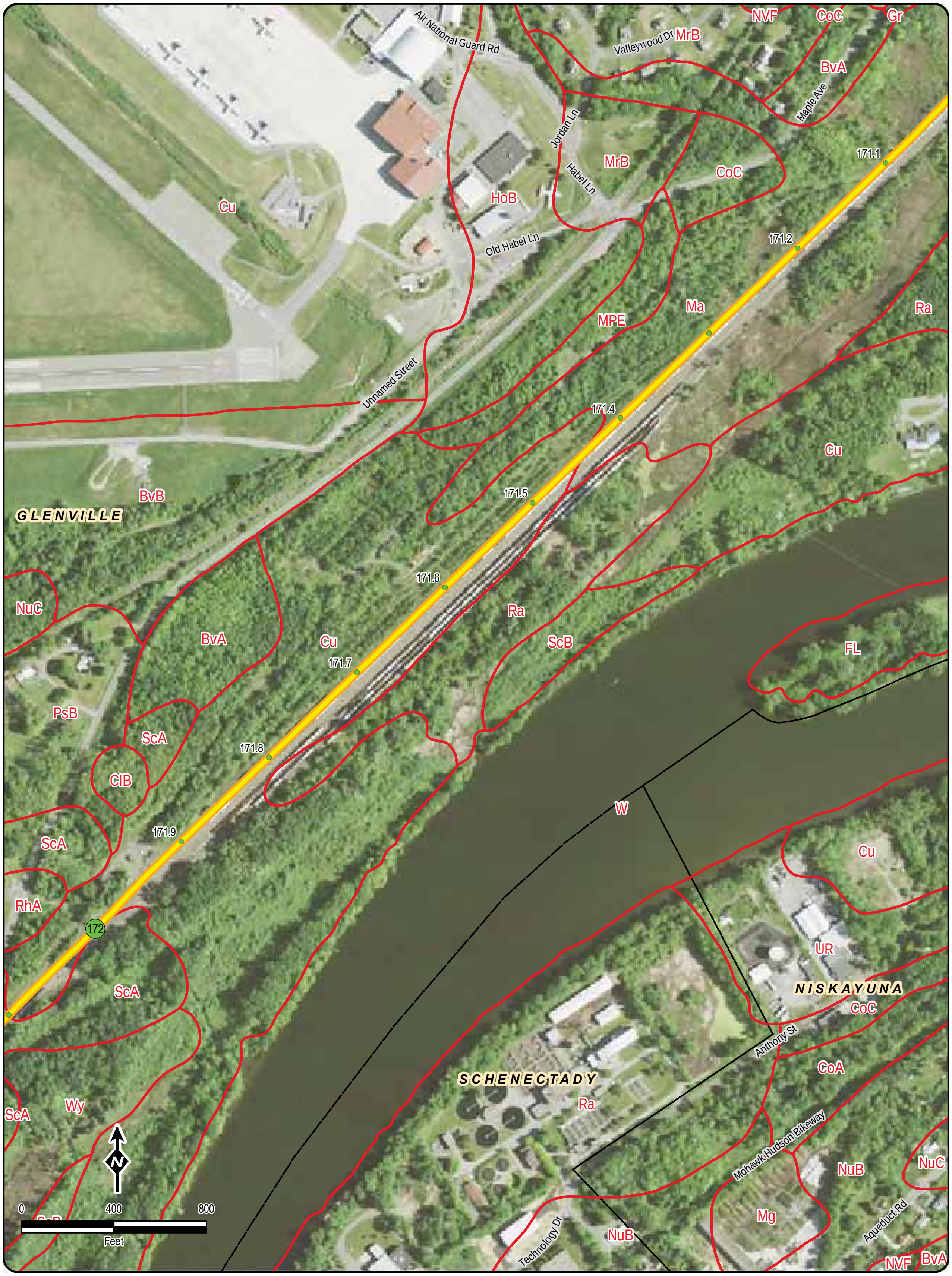
Figure A-2

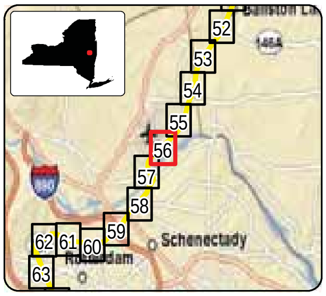
NRCS Soil Mapping

Sheet 55 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

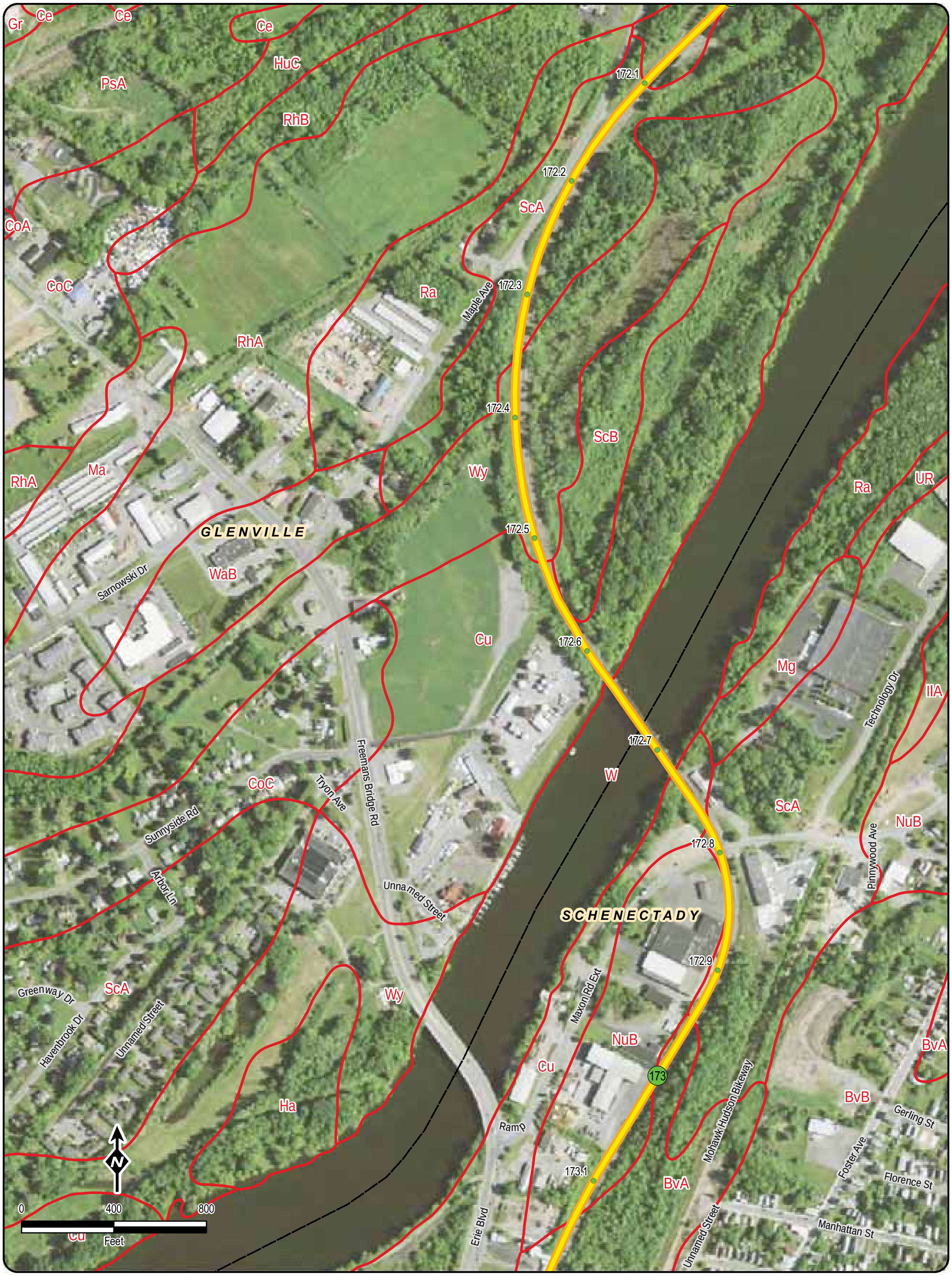
Figure A-2

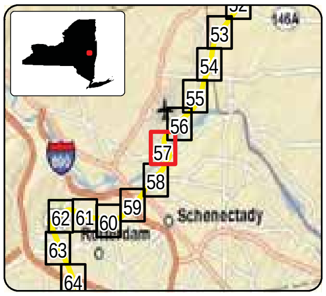
NRCS Soil Mapping

Sheet 56 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- 🟨 Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

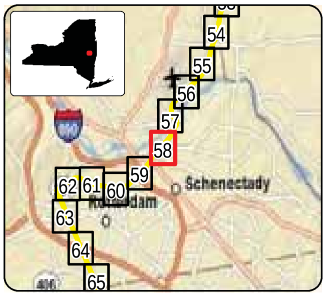
Figure A-2

NRCS Soil Mapping

Sheet 57 of 84

Prepared by: HDR [illegible] & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

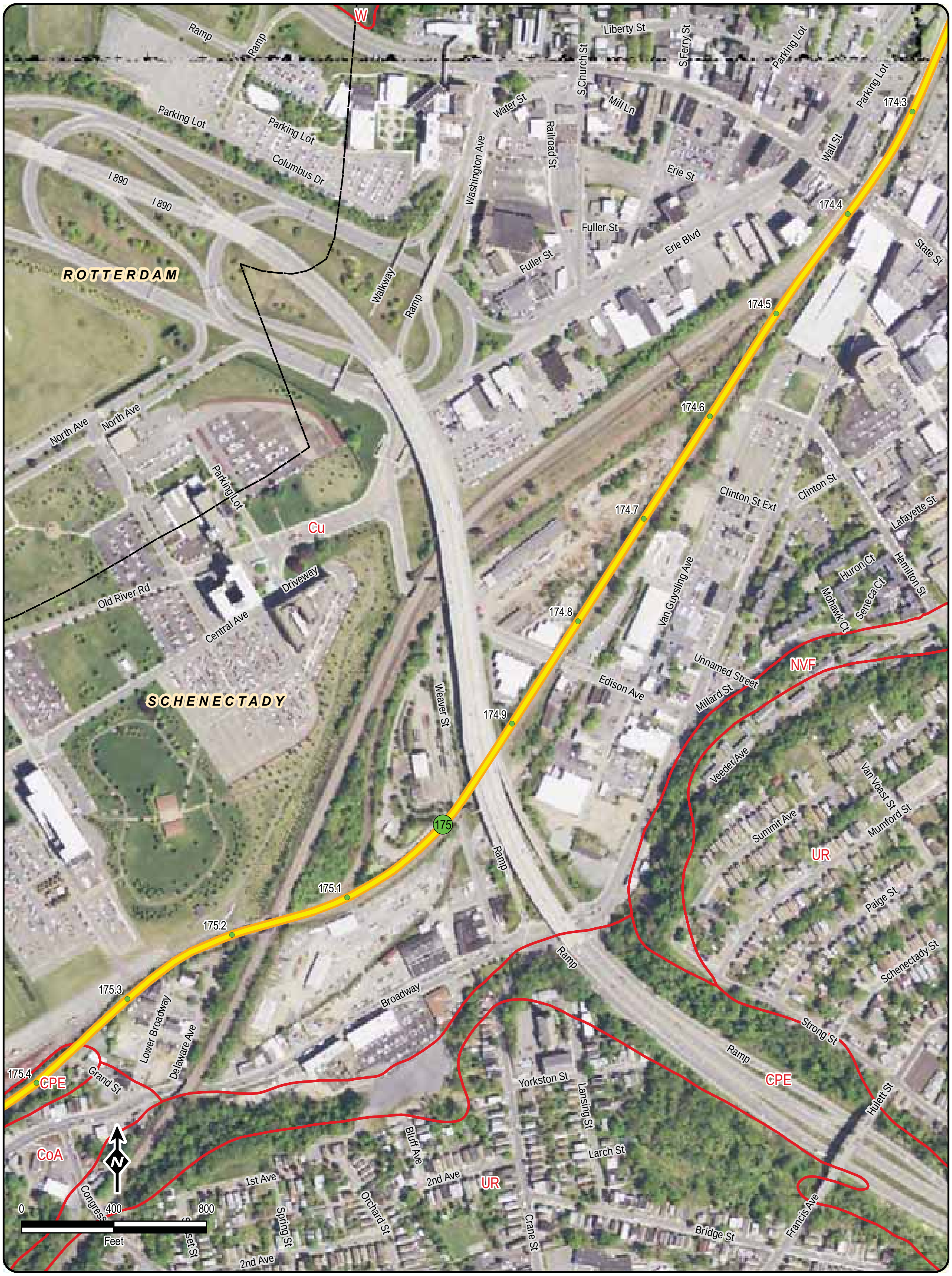
Figure A-2

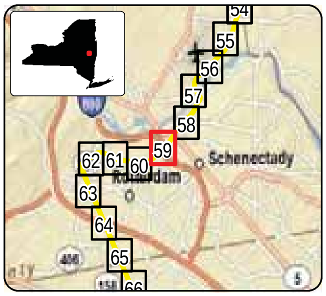
NRCS Soil Mapping

Sheet 58 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

— Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

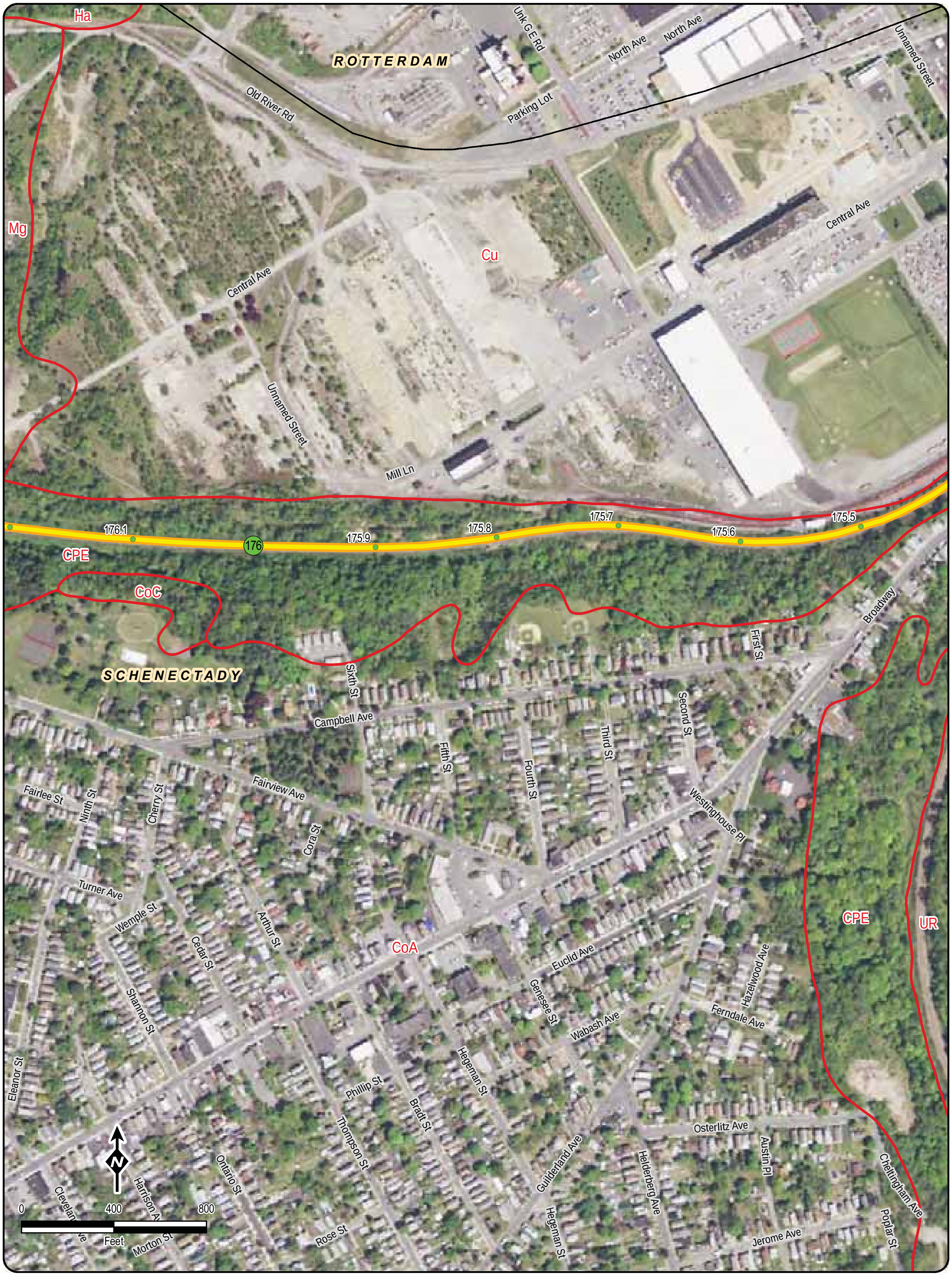
Figure A-2

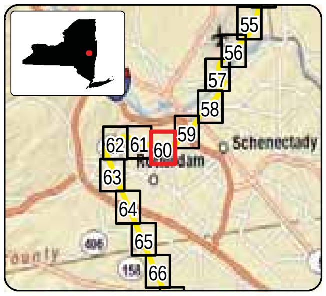
NRCS Soil Mapping

Sheet 59 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

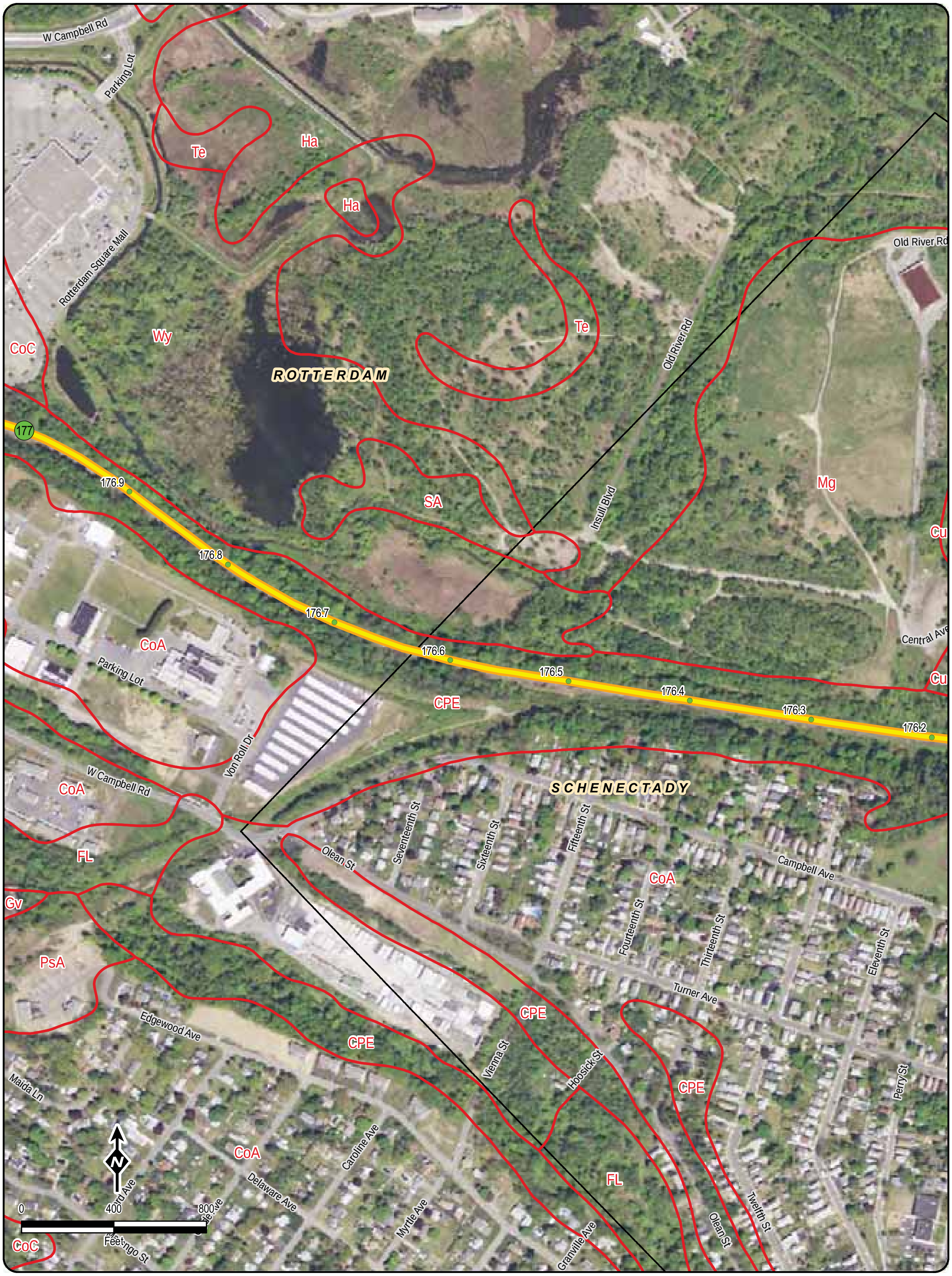
Figure A-2

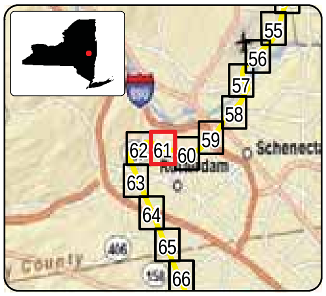
NRCS Soil Mapping

Sheet 60 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

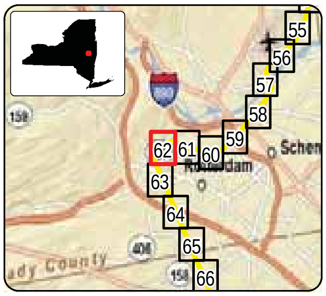
Figure A-2

NRCS Soil Mapping

Sheet 61 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- 🟨 Proposed CHPEI Route
- 🟧 Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ⬚ Town Boundary
- ***T O W N   N A M E***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

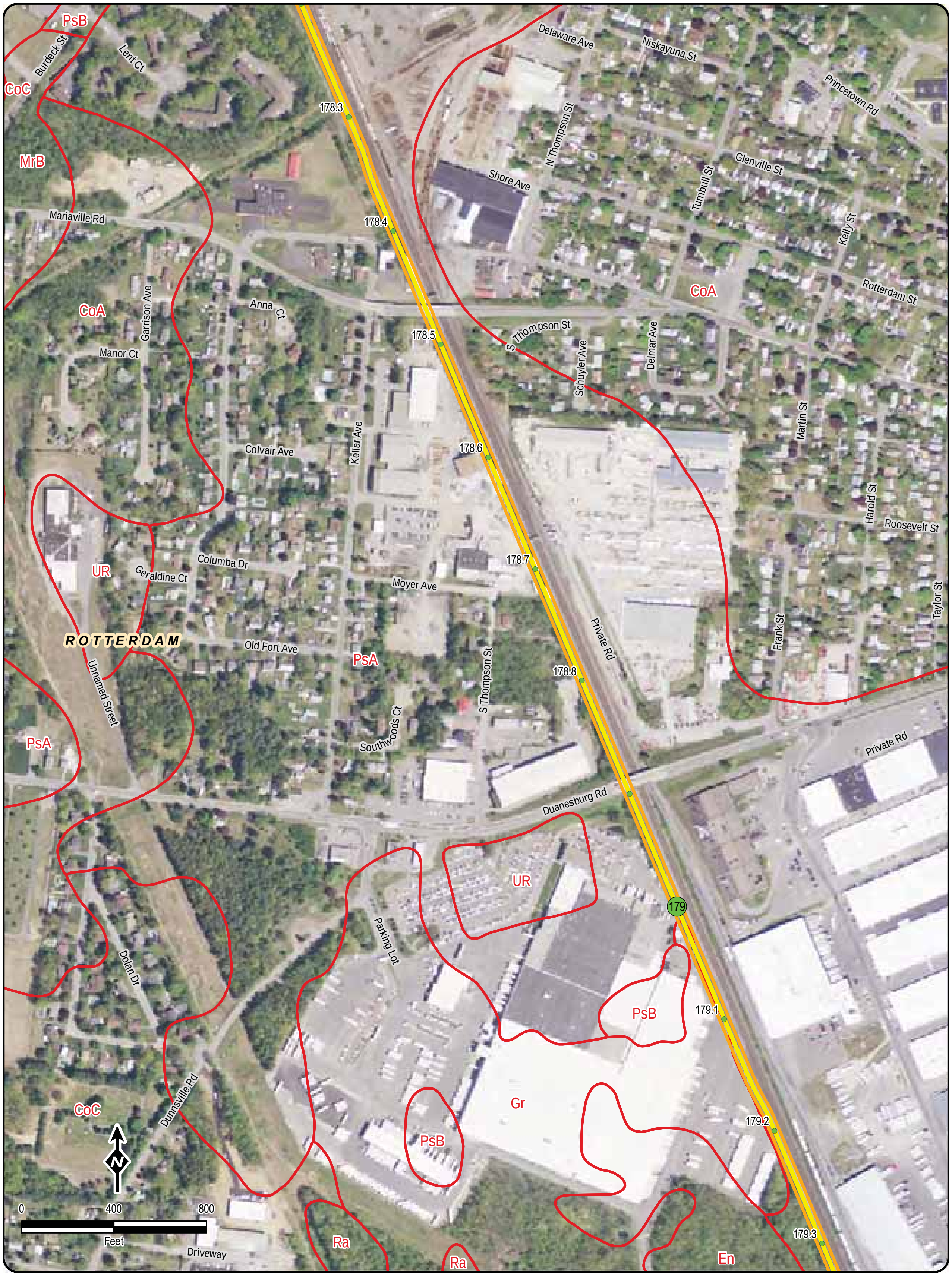
Figure A-2

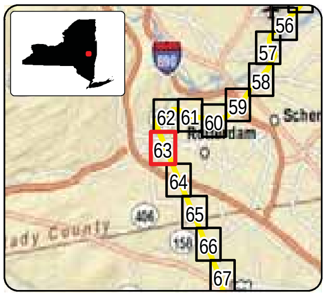
NRCS Soil Mapping

Sheet 62 of 84

Prepared by: HDR | TRC & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

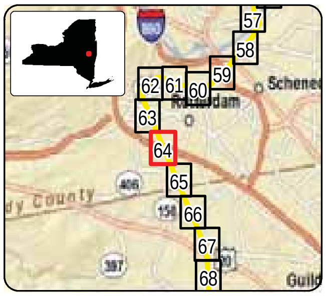
Figure A-2

NRCS Soil Mapping

Sheet 63 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- 🟨 Proposed CHPEI Route
- 🟧 Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
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- **TOWN NAME**

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

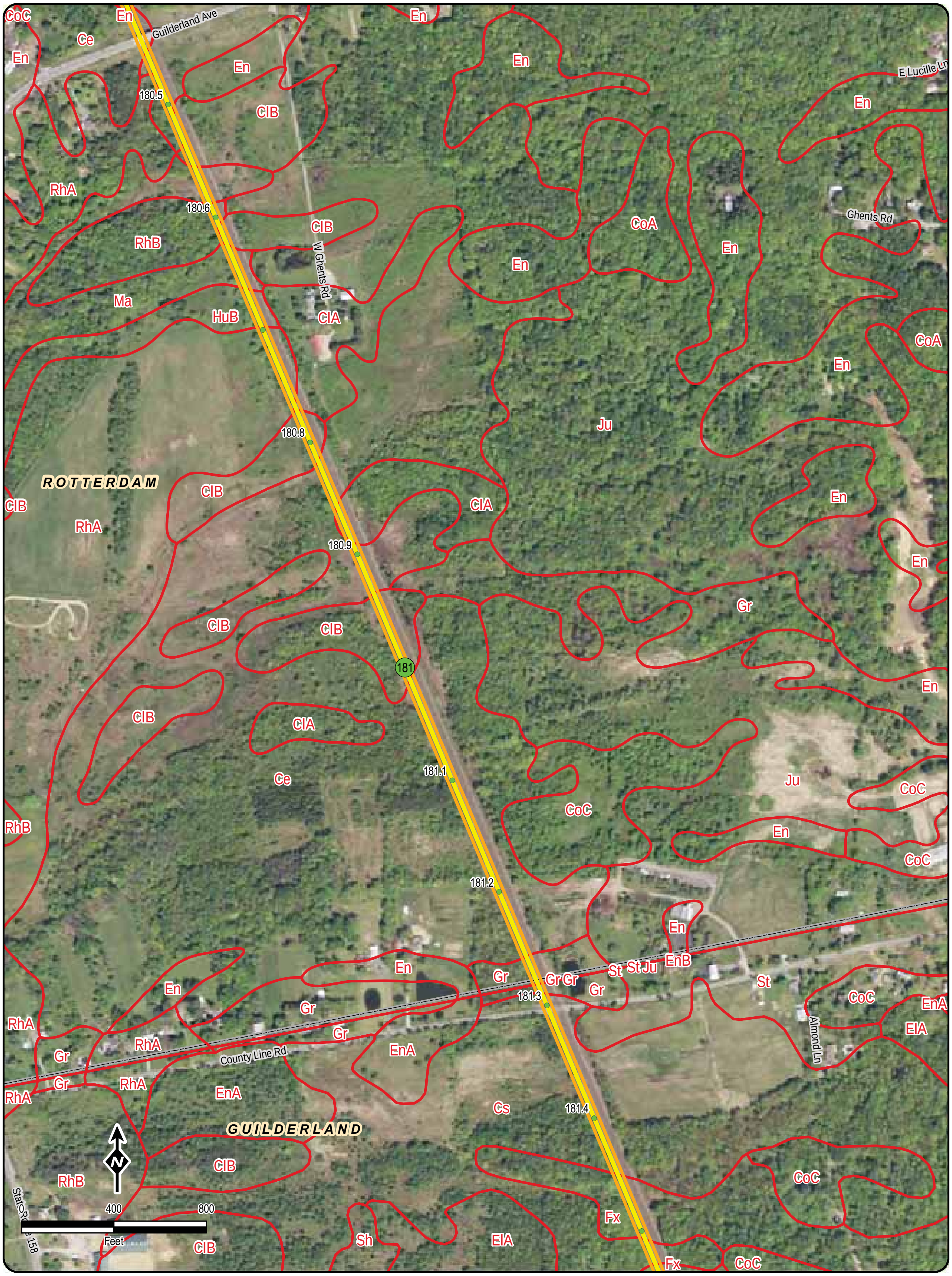
Figure A-2

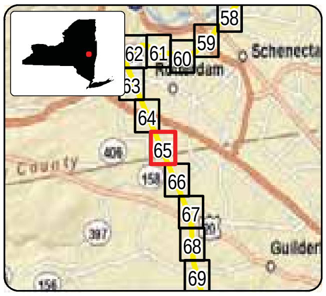
NRCS Soil Mapping

Sheet 64 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
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- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
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Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

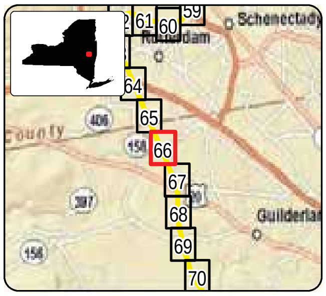
Figure A-2

NRCS Soil Mapping

Sheet 65 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- — Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

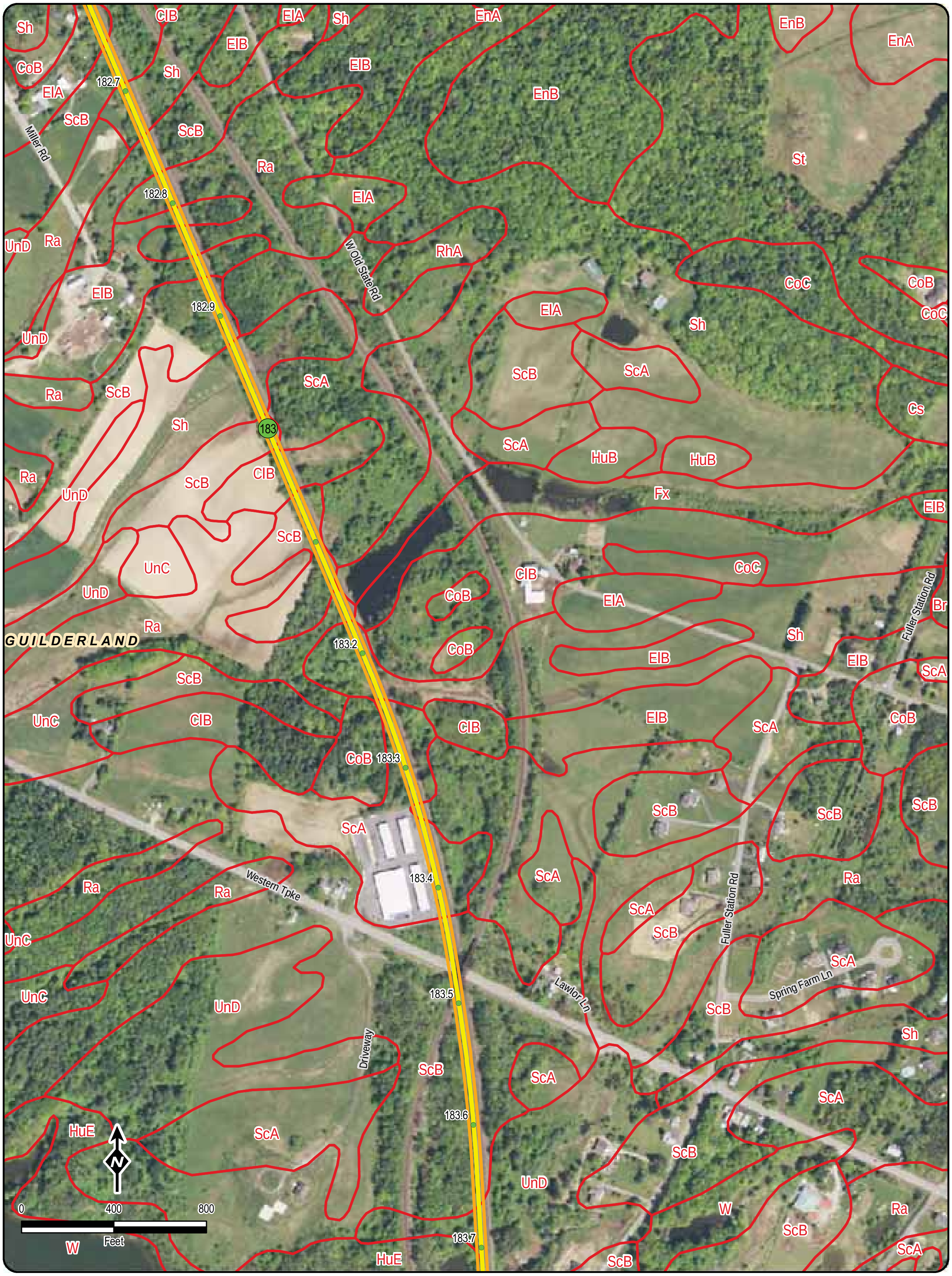
Figure A-2

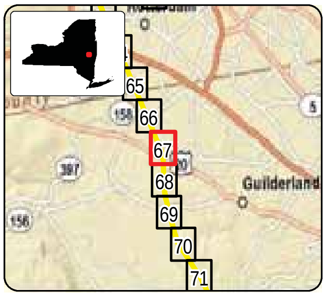
NRCS Soil Mapping

Sheet 66 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

Proposed CHPEI Route

Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

▭ Town Boundary

TOWN NAME

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

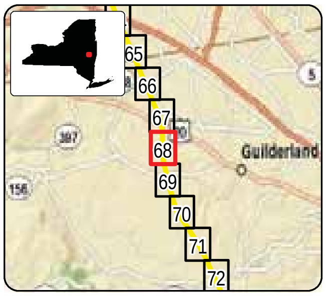
Figure A-2

NRCS Soil Mapping

Sheet 67 of 84

Prepared by: & 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- 🟨 Proposed CHPEI Route
- 🟧 Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ⬚ Town Boundary
- TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

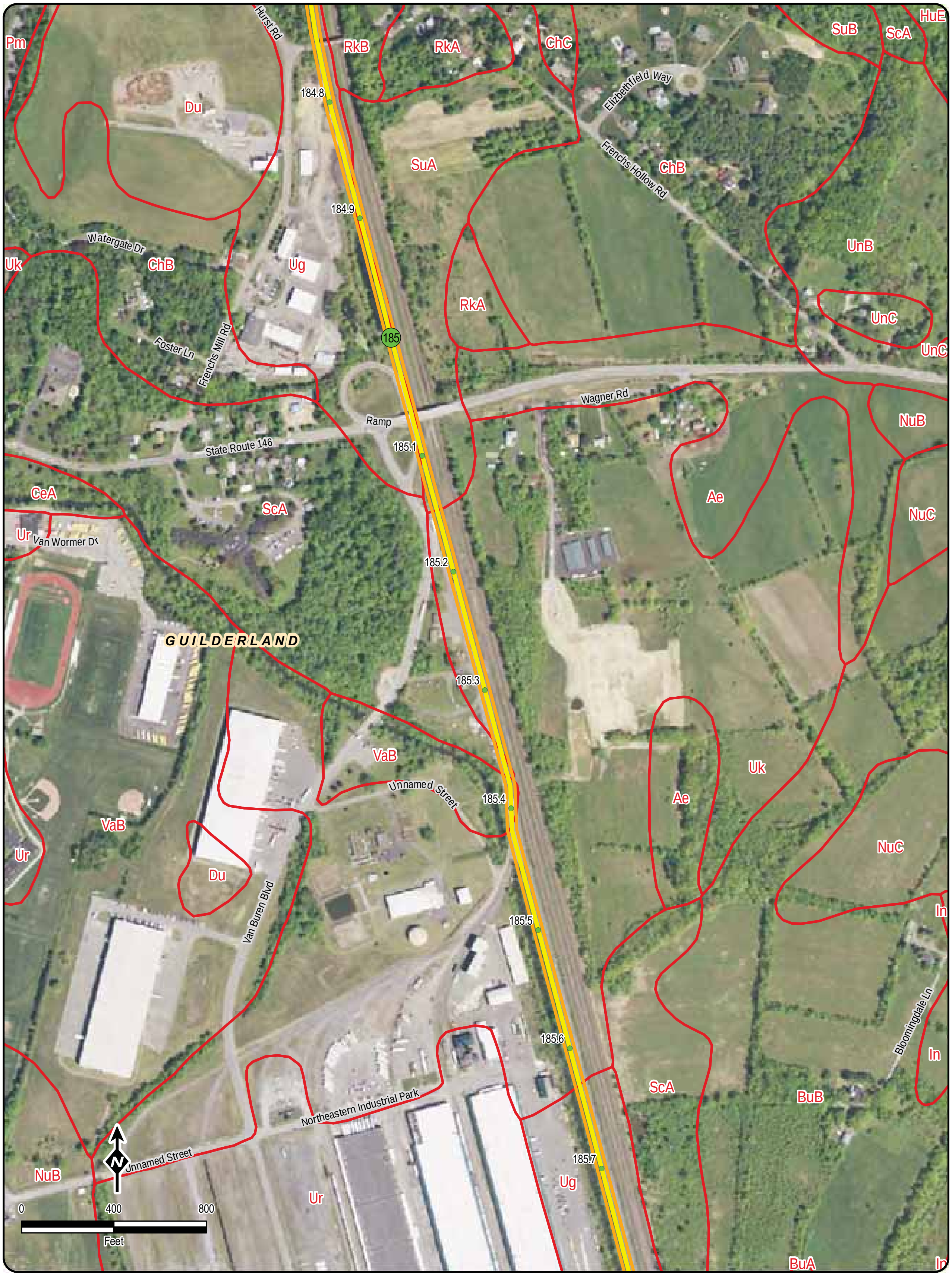
Figure A-2

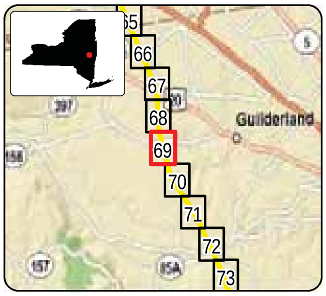
NRCS Soil Mapping

Sheet 68 of 84

Prepared by: HDR | NTA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- *TOWN NAME*

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

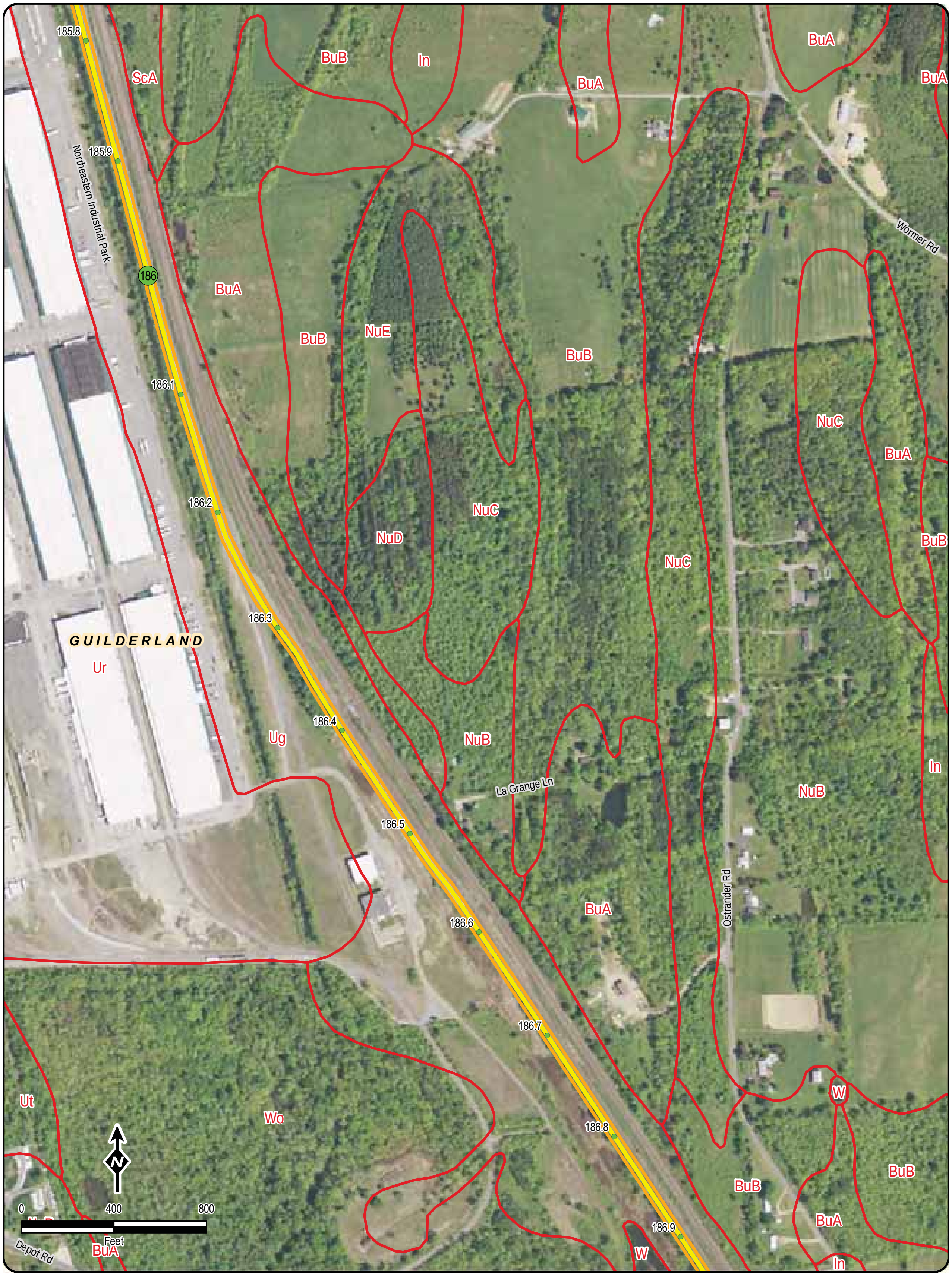
Figure A-2

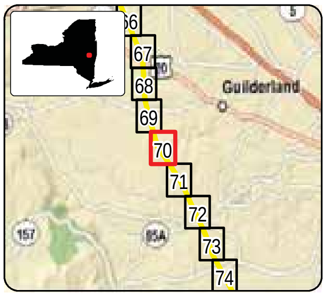
NRCS Soil Mapping

Sheet 69 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

🟨 Proposed CHPEI Route

🟧 Construction Corridor

● Milepost

▲ Canal Lock

🟥 NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

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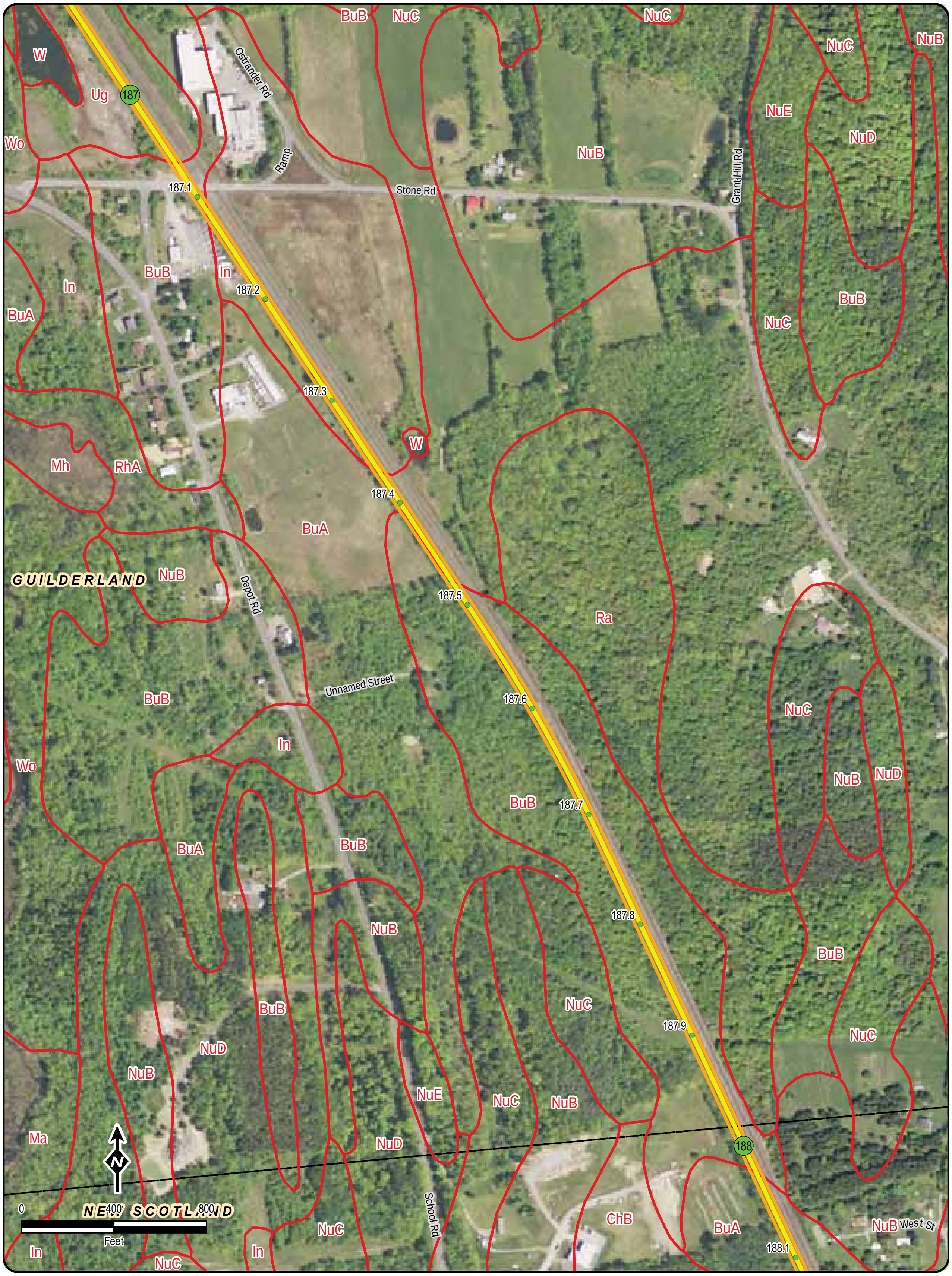
Figure A-2

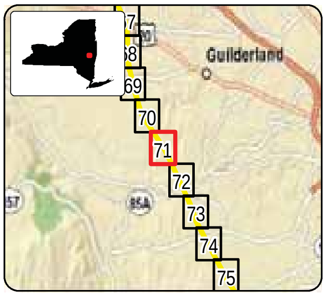
NRCS Soil Mapping

Sheet 70 of 84

Prepared by: HDR | ELS & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
▭ NRCS Soil Boundary
⬚ Town Boundary
TOWN NAME

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

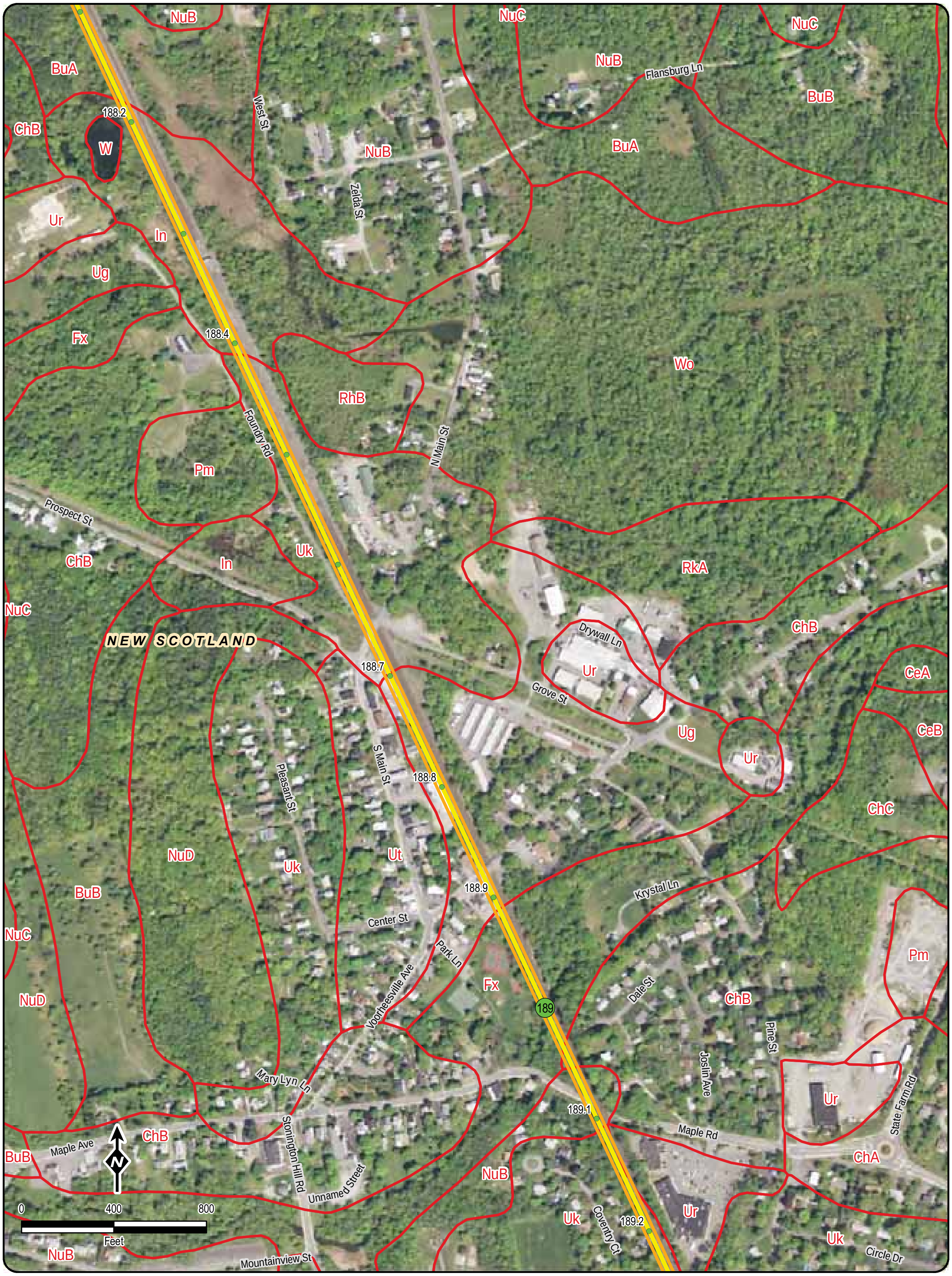
Figure A-2

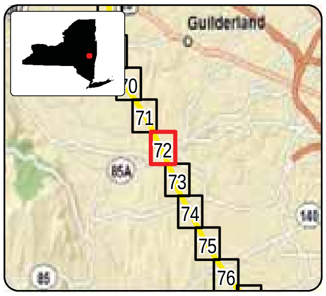
NRCS Soil Mapping

Sheet 71 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
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- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

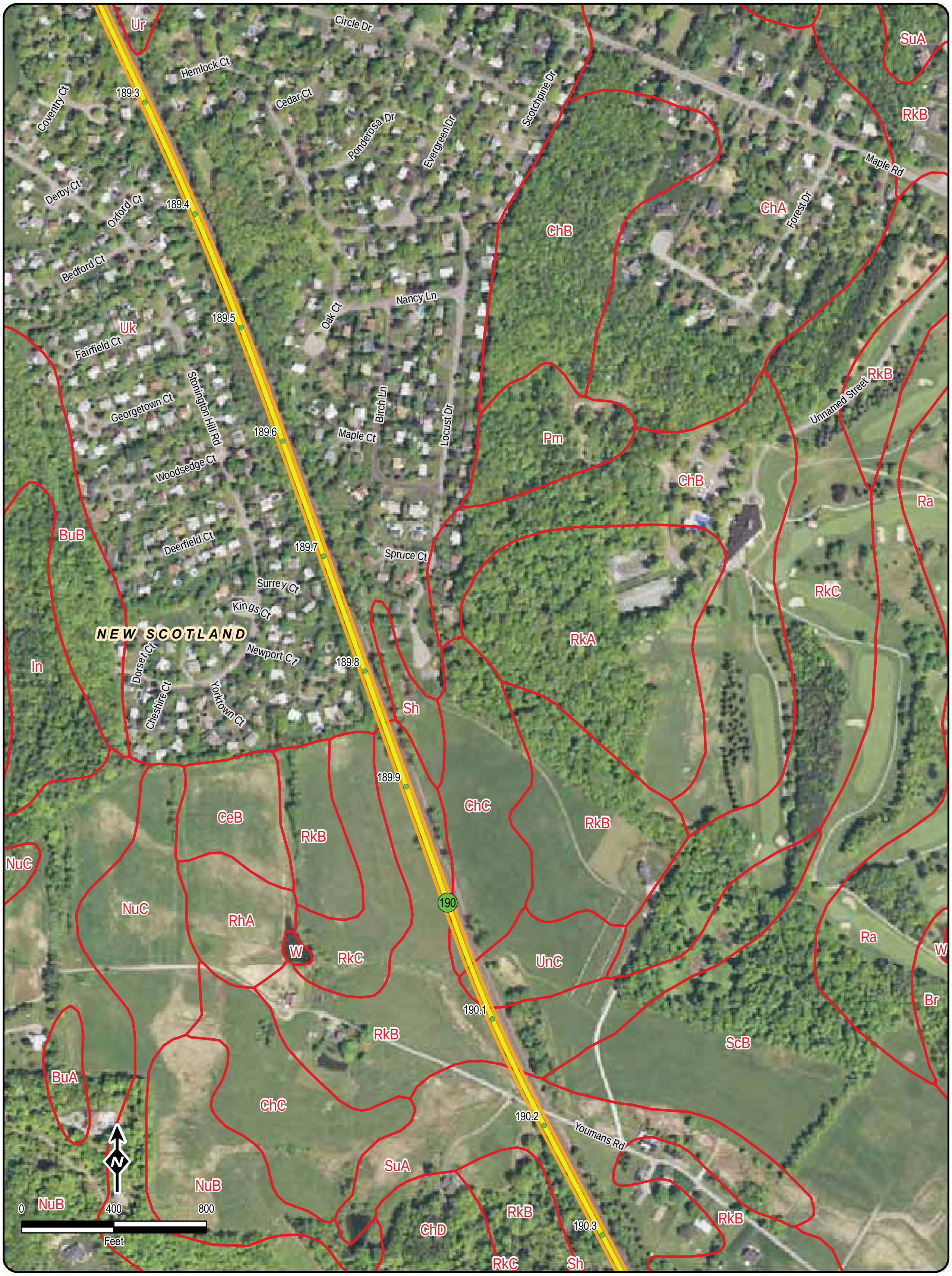
Figure A-2

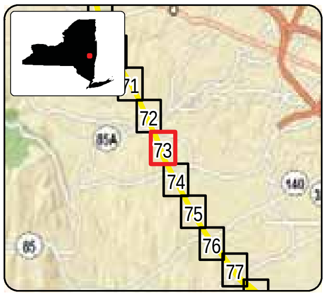
NRCS Soil Mapping

Sheet 72 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

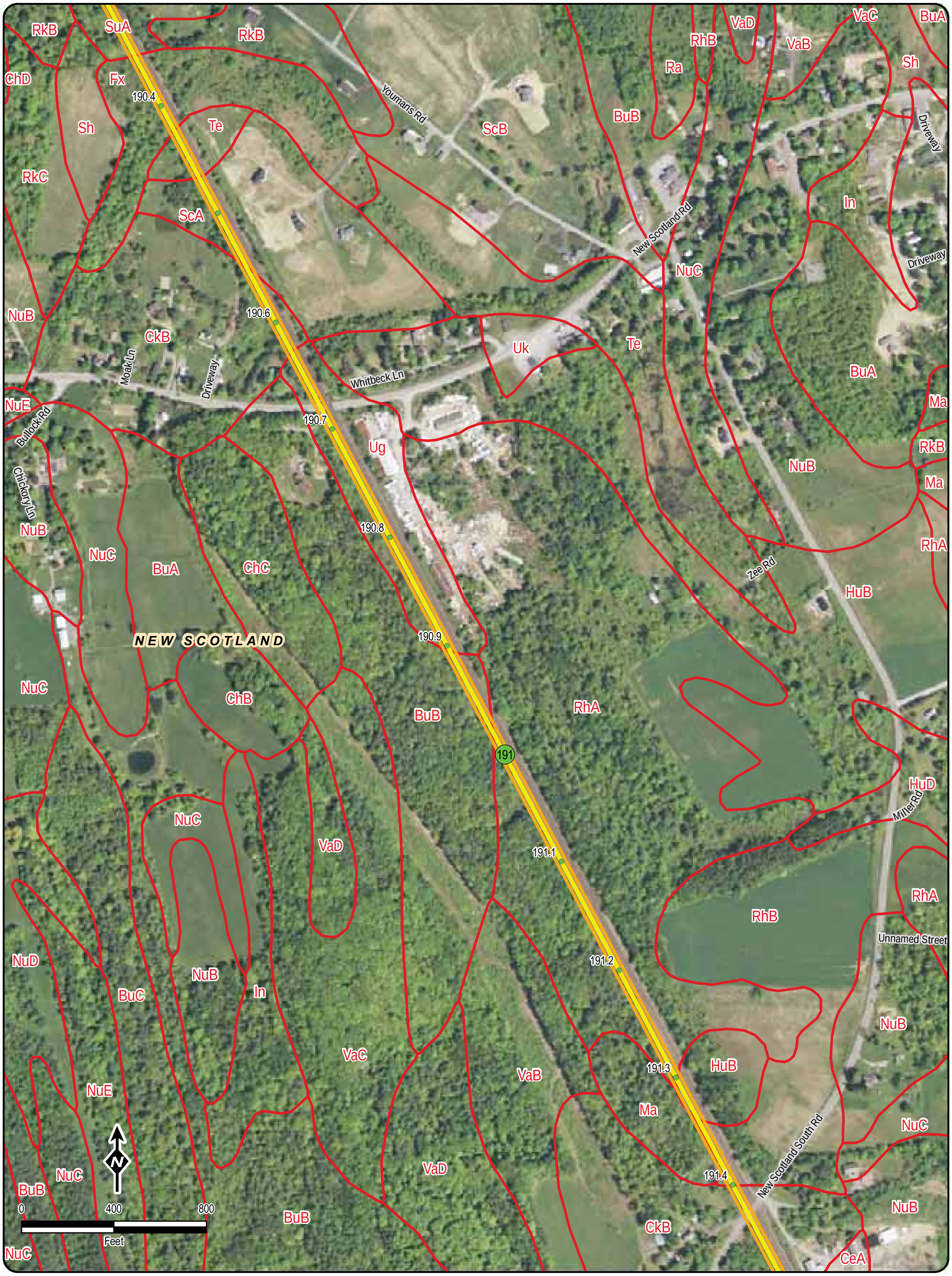
Figure A-2

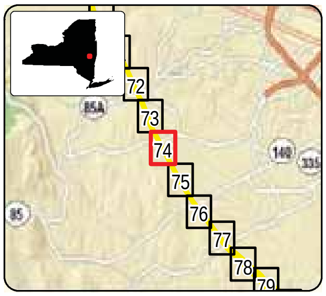
NRCS Soil Mapping

Sheet 73 of 84

Prepared by: HDR | Vera & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ▭ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

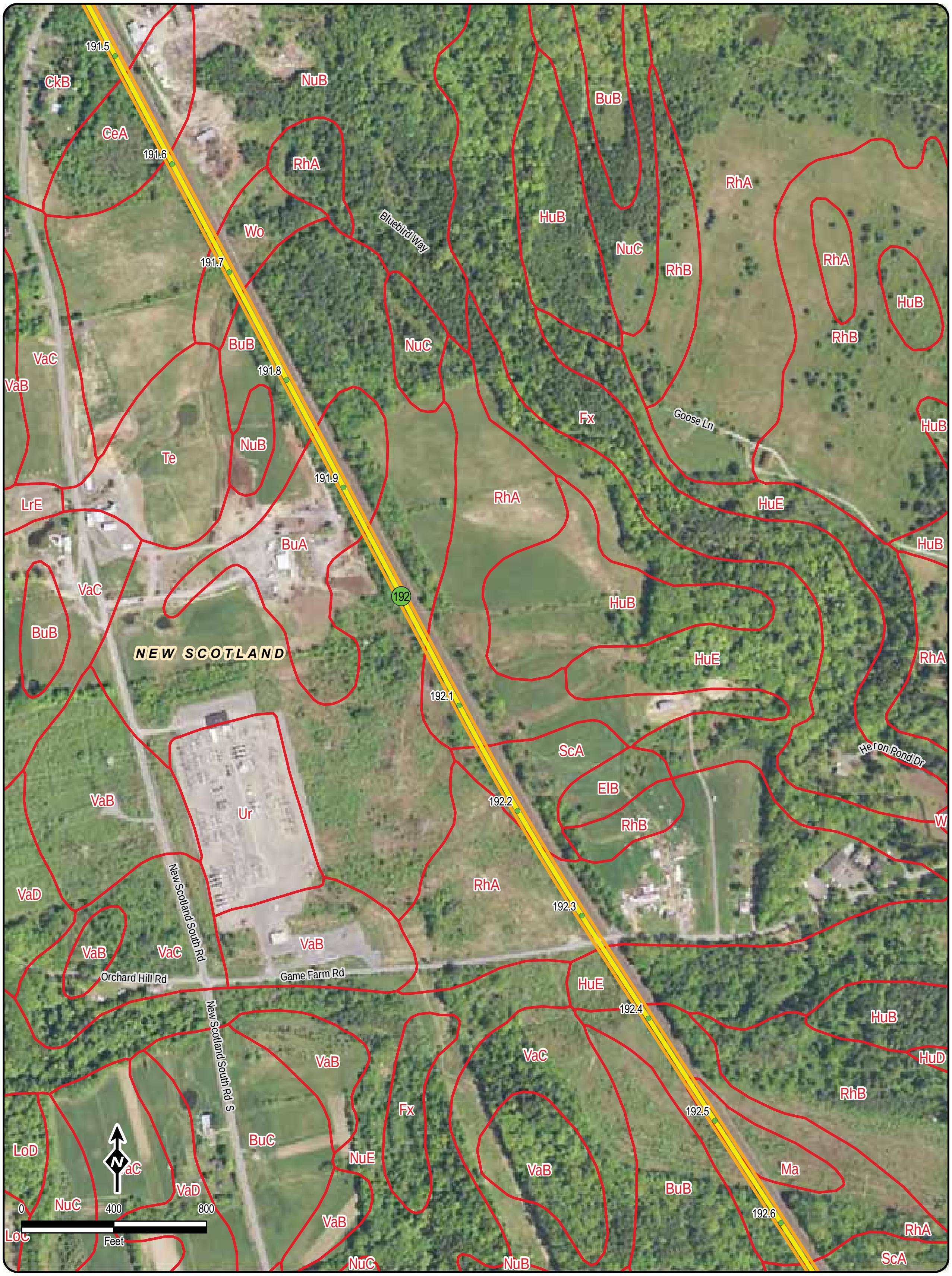
Figure A-2

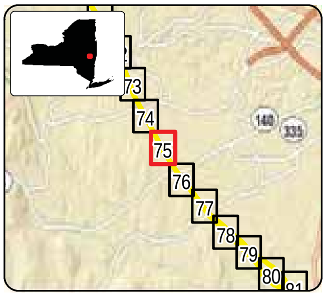
NRCS Soil Mapping

Sheet 74 of 84

Prepared by: HDR | TETRA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

▬ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

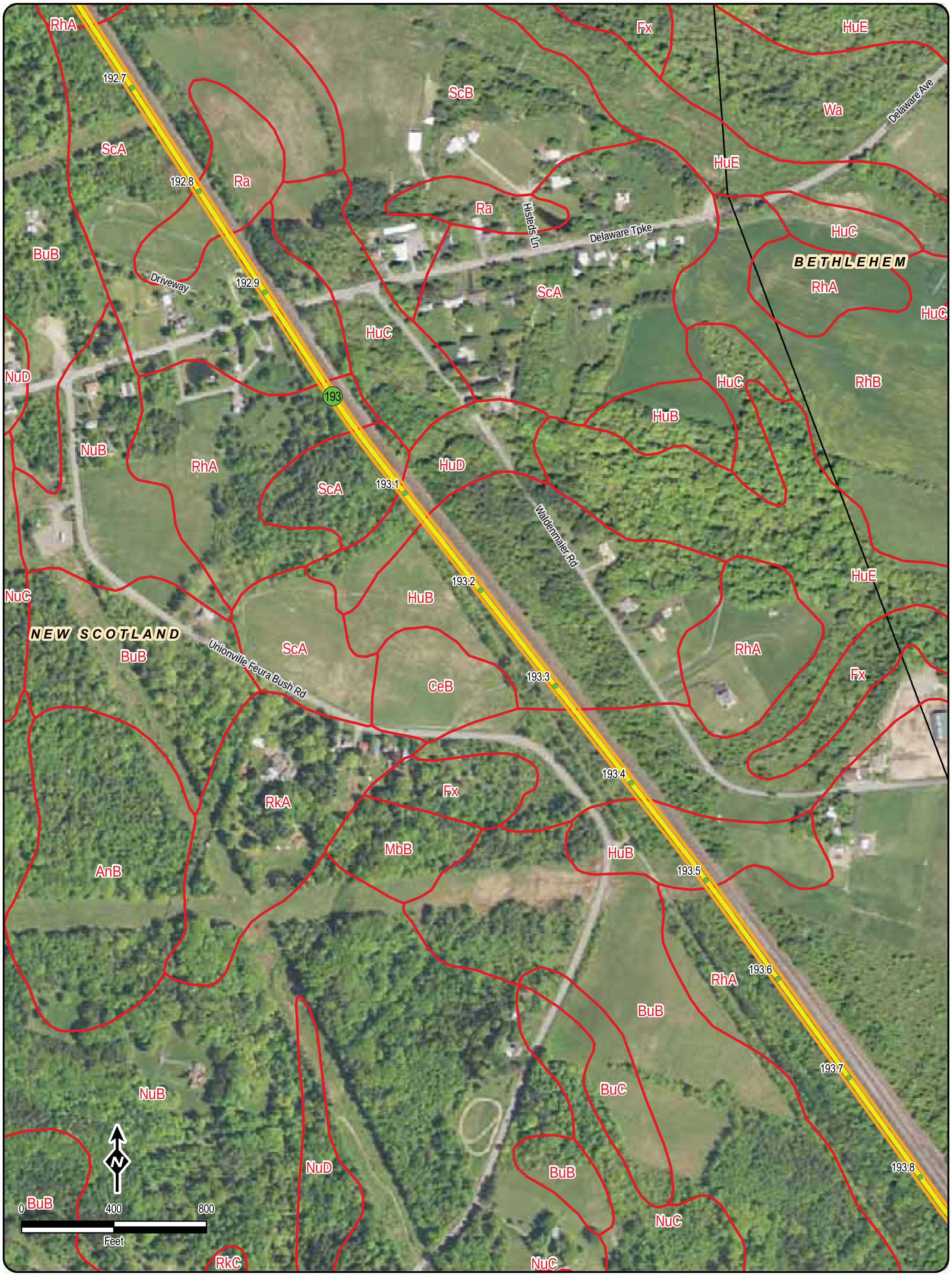
Figure A-2

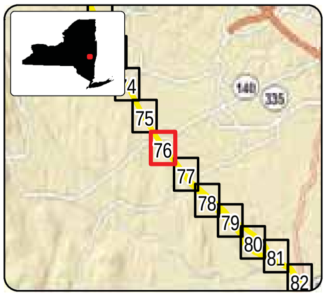
NRCS Soil Mapping

Sheet 75 of 84

Prepared by: HDR | DTA & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

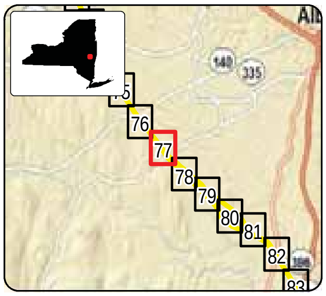
Figure A-2

NRCS Soil Mapping

Sheet 76 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- *TOWN NAME*

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

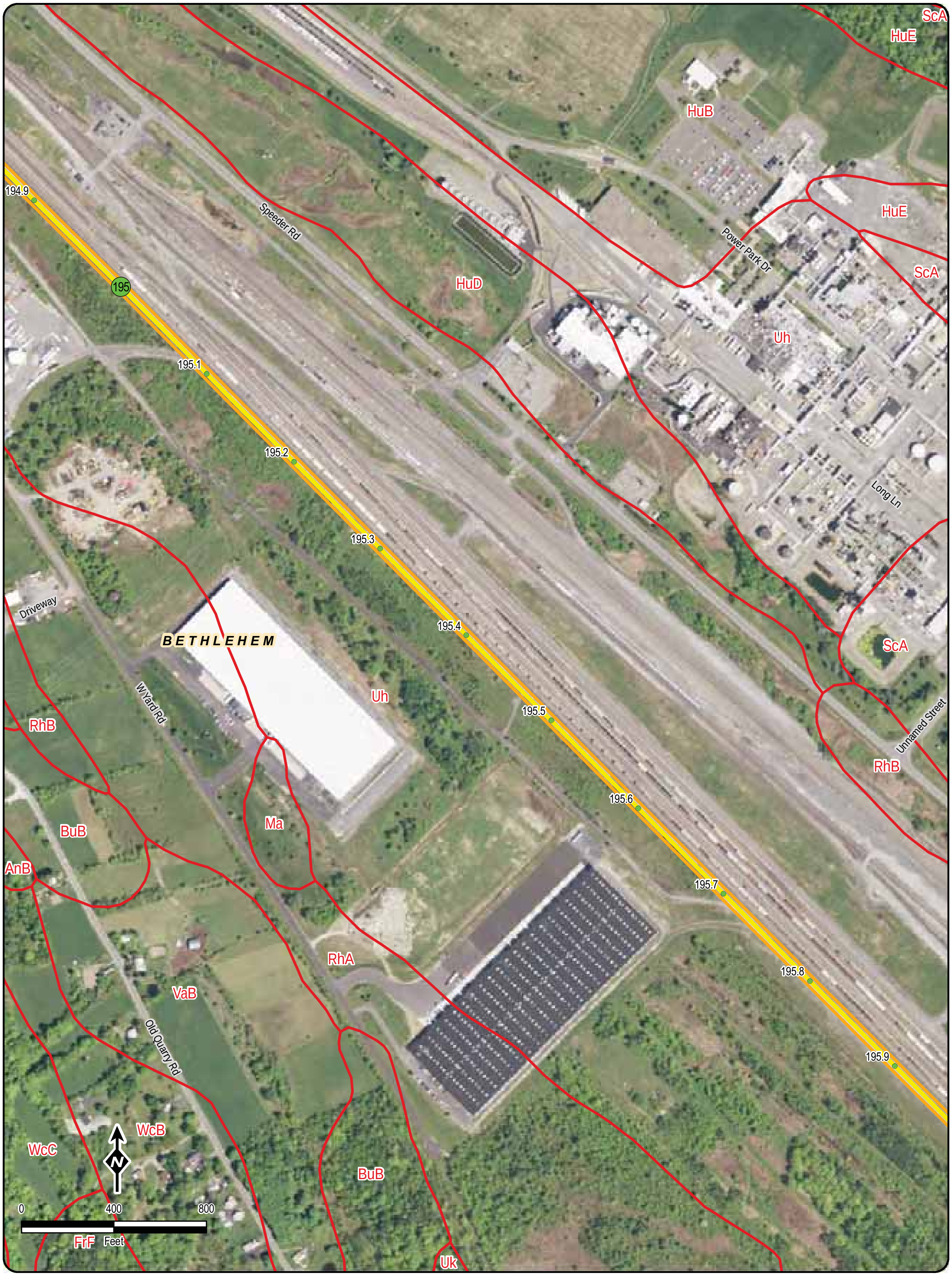
Figure A-2

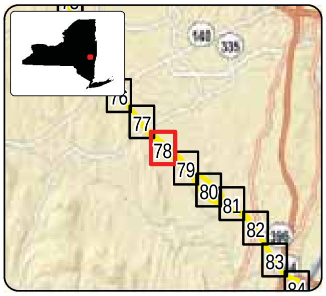
NRCS Soil Mapping

Sheet 77 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- **TOWN NAME**

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

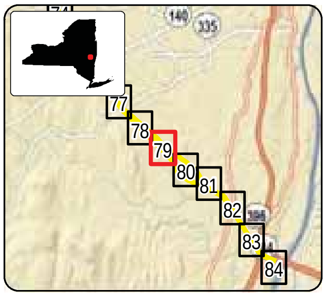
Figure A-2

NRCS Soil Mapping

Sheet 78 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS



LEGEND

━ Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
▭ NRCS Soil Boundary
⬚ Town Boundary
TOWN NAME

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

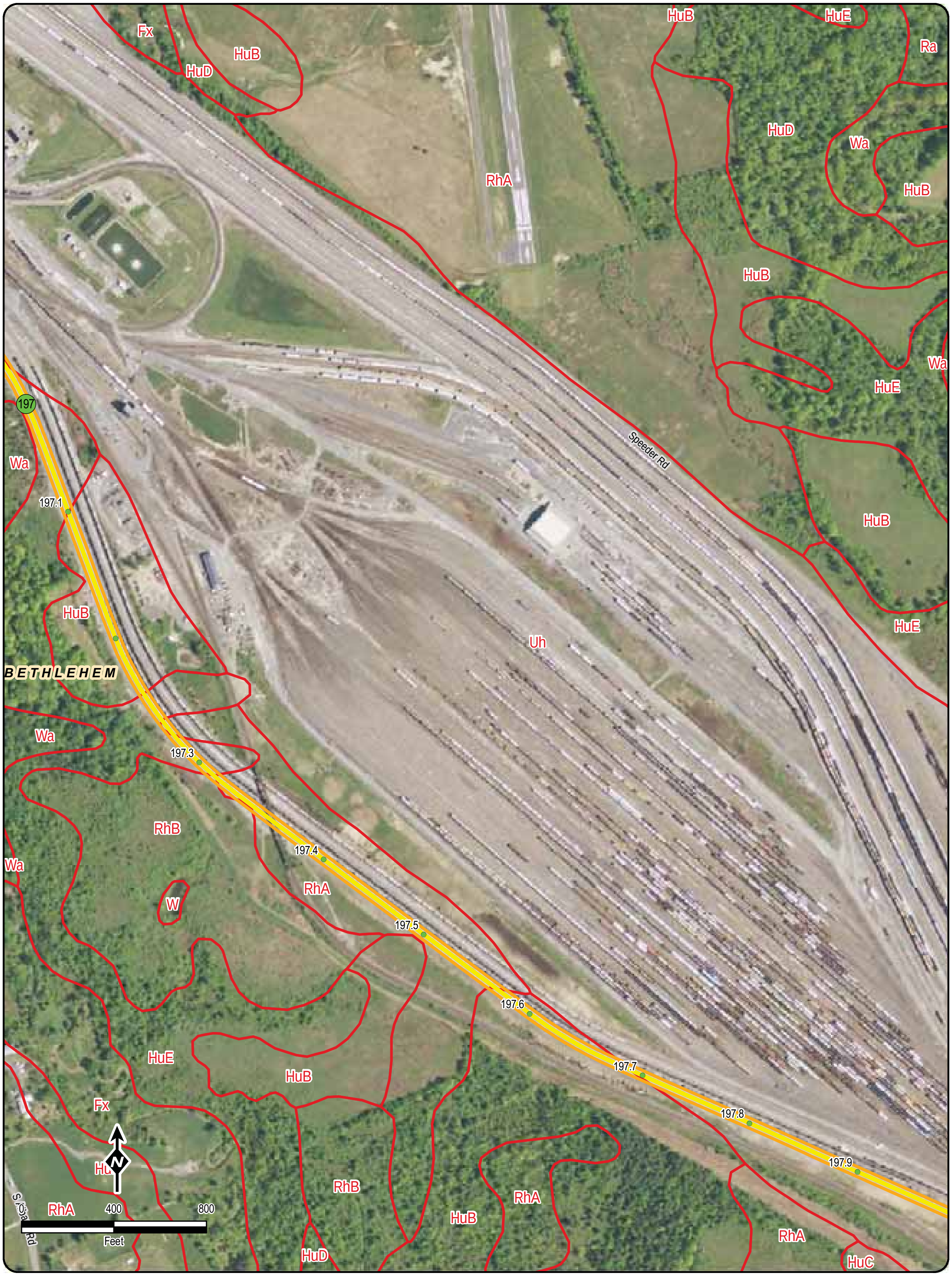
Figure A-2

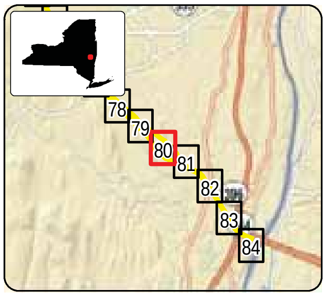
NRCS Soil Mapping

Sheet 79 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ▬ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission Developers Inc.

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

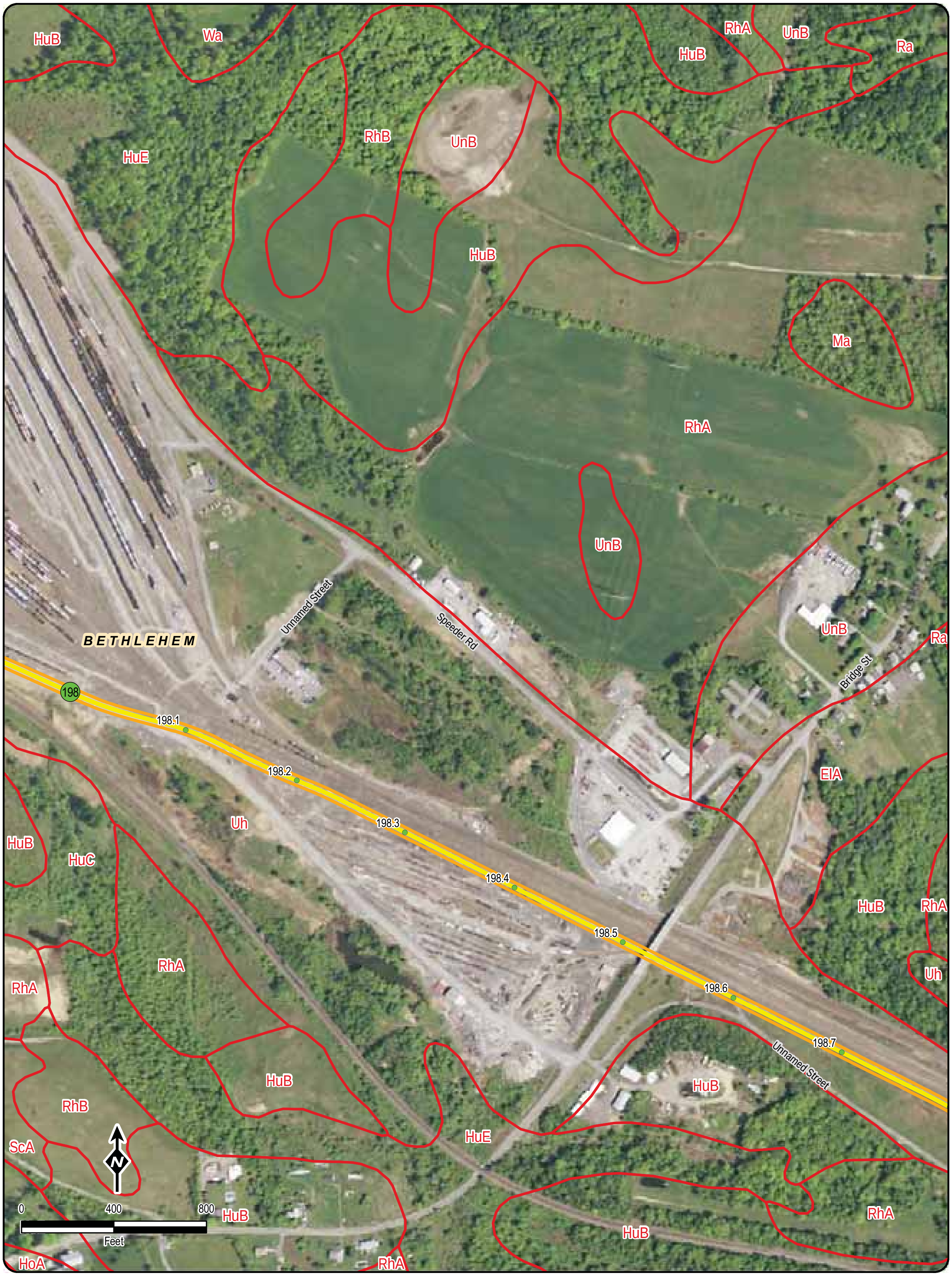
Figure A-2

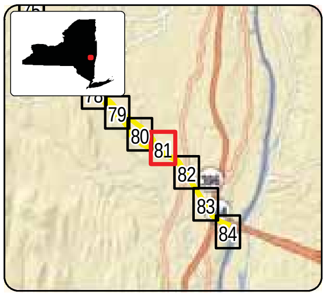
NRCS Soil Mapping

Sheet 80 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- 🟨 Proposed CHPEI Route
- 🟧 Construction Corridor
- ● Milepost
- ▲ Canal Lock
- 🟥 NRCS Soil Boundary
- ⬚ Town Boundary
- TOWN NAME

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

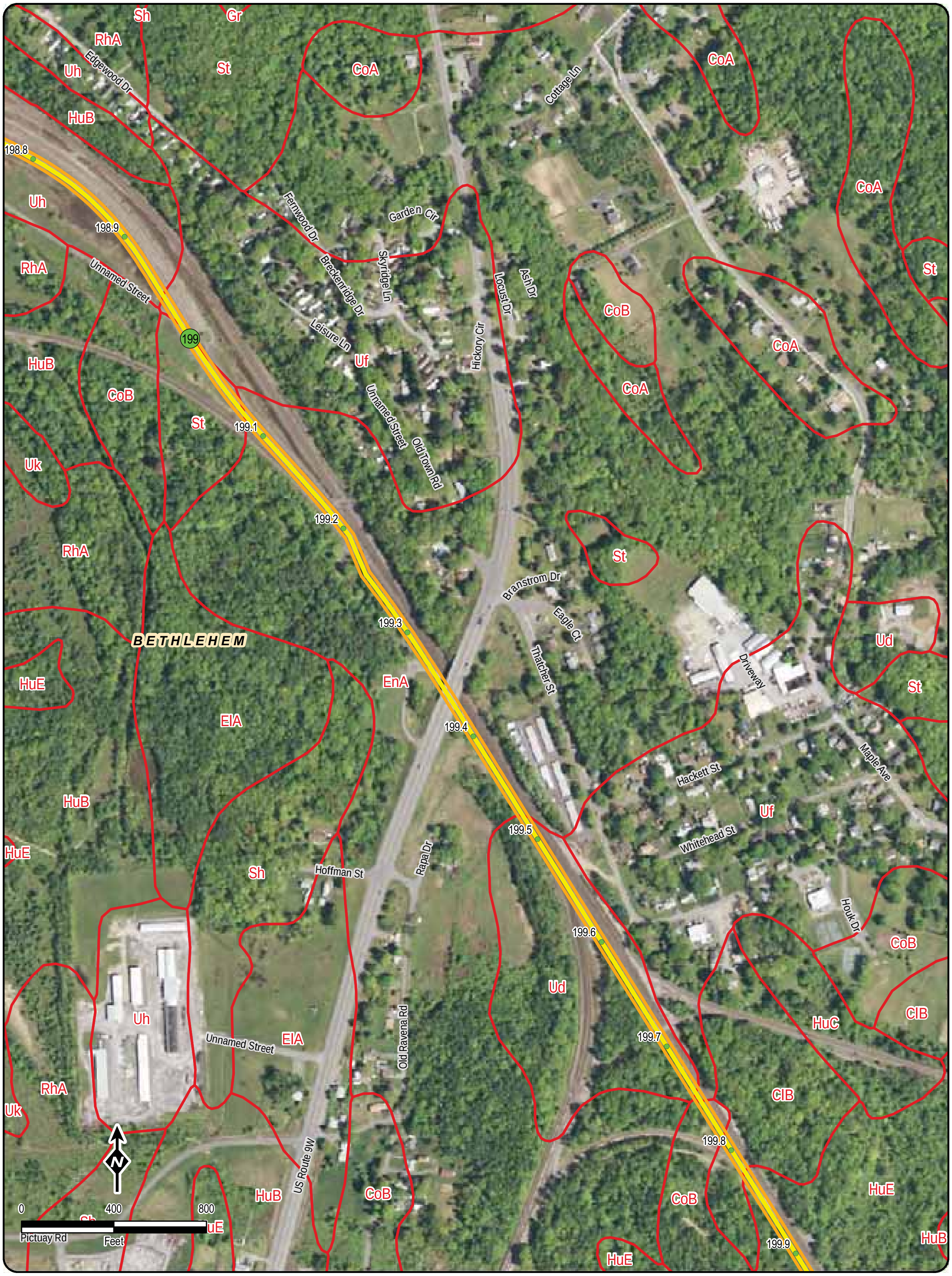
Figure A-2

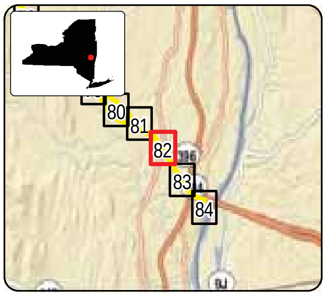
NRCS Soil Mapping

Sheet 81 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

- ━ Proposed CHPEI Route
- ▭ Construction Corridor
- ● Milepost
- ▲ Canal Lock
- ▭ NRCS Soil Boundary
- ⬚ Town Boundary
- ***TOWN NAME***

Transmission

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

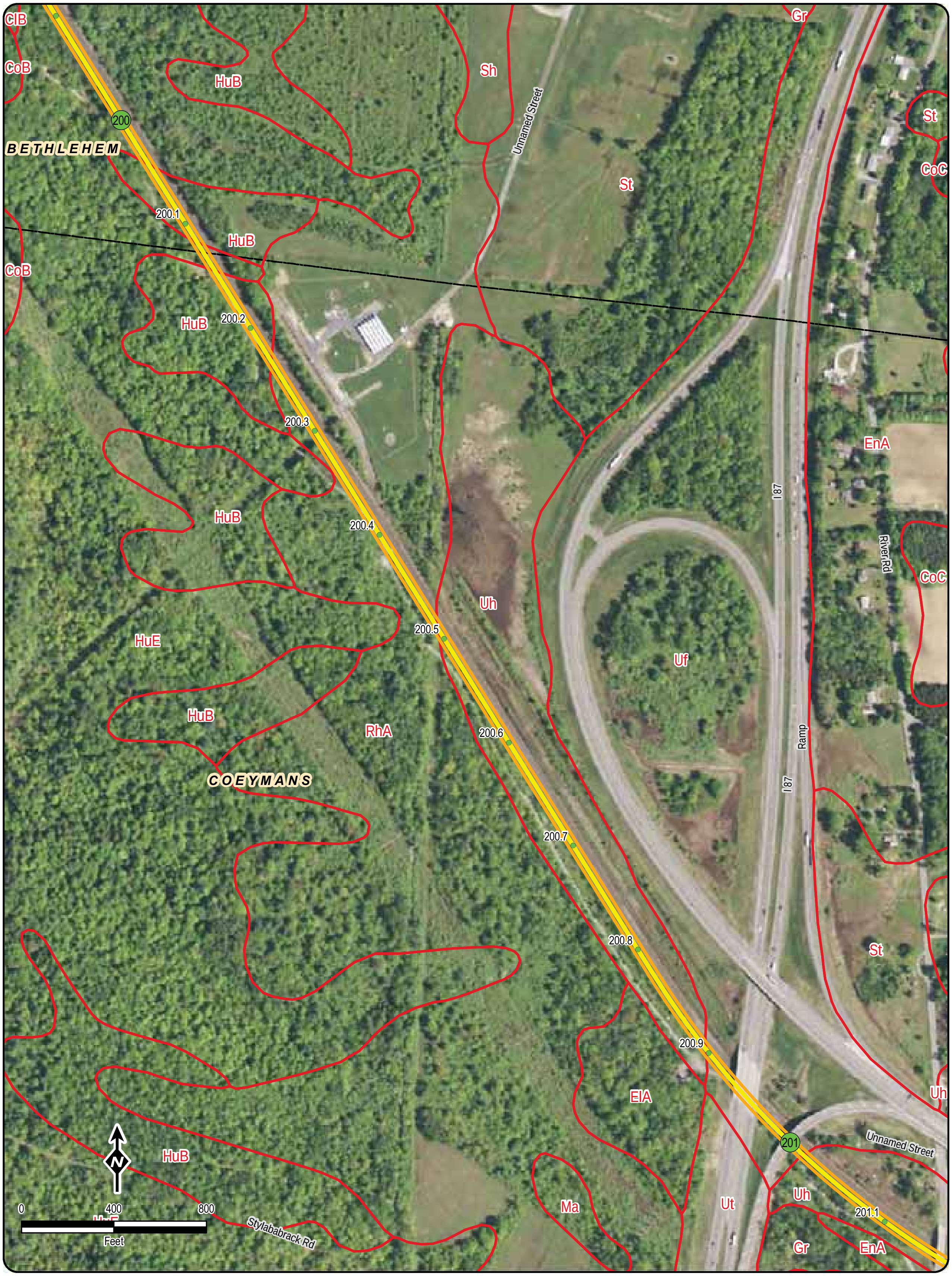
Figure A-2

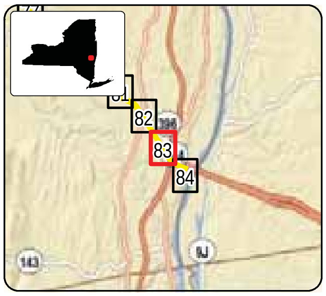
NRCS Soil Mapping

Sheet 82 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route

▭ Construction Corridor

● Milepost

▲ Canal Lock

▭ NRCS Soil Boundary

⬚ Town Boundary

TOWN NAME

Champlain Hudson Power Express Project

Champlain Hudson Power Express Inc.

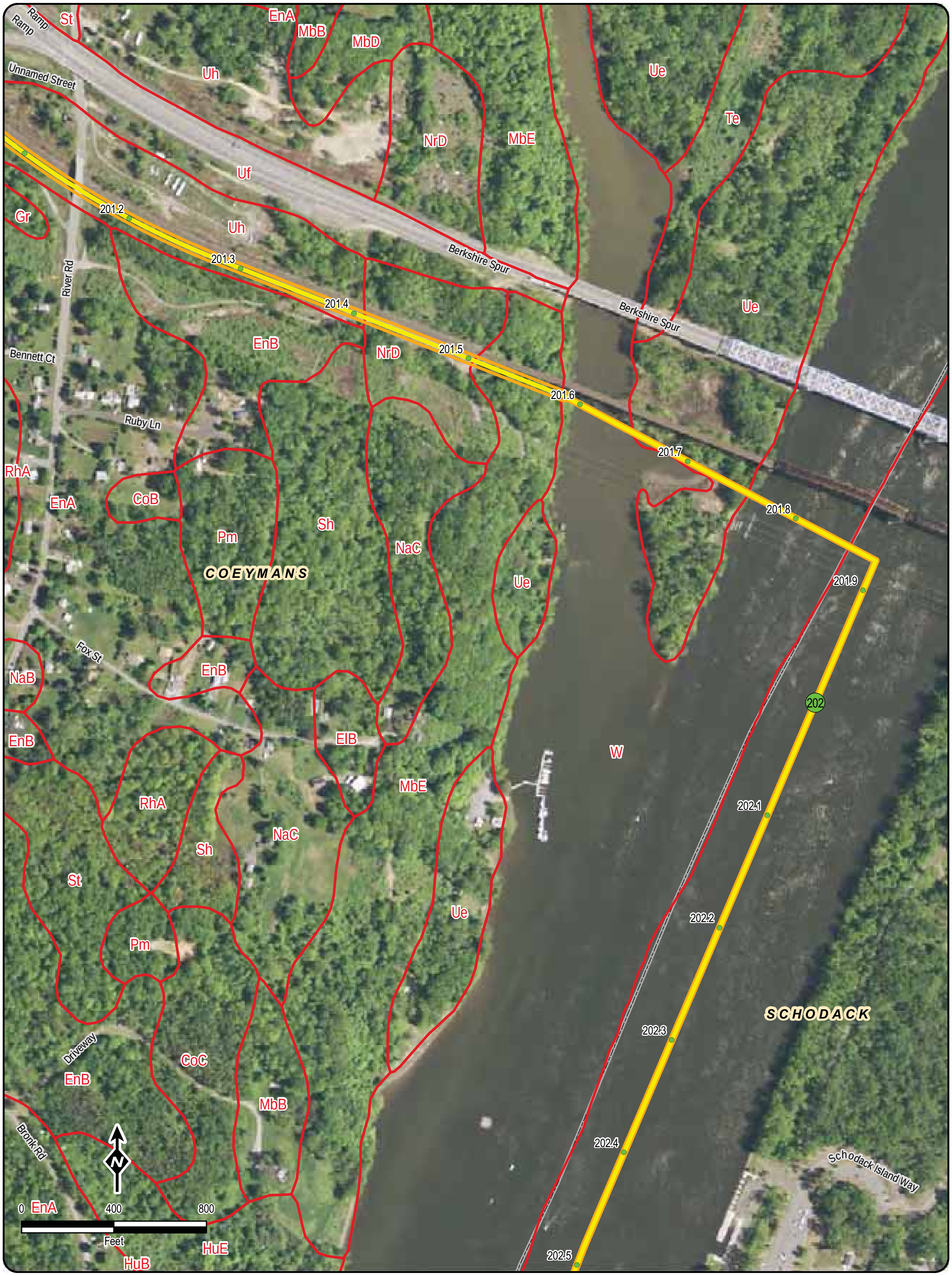
Figure A-2

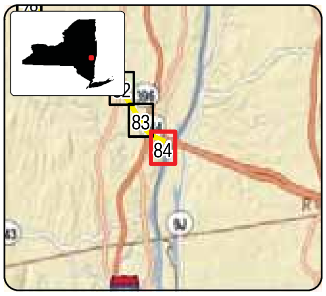
NRCS Soil Mapping

Sheet 83 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS





LEGEND

━ Proposed CHPEI Route
▭ Construction Corridor
● Milepost
▲ Canal Lock
▭ NRCS Soil Boundary
⬚ Town Boundary
TOWN NAME

Champlain Hudson Power Express Project
Champlain Hudson Power Express Inc.

Figure A-2

NRCS Soil Mapping

Sheet 84 of 84

Prepared by: HDR & TRC 7/12/2010

DATA SOURCES: ESRI, NAIP, TDI, TRC, NRCS

ATTACHMENT B

TABLES

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
D10	PEM	Lake Champlain	WH-1
D11	PEM	Champlain Canal	-
B56	PEM	Unnamed Tributaries to Champlain Canal (B56)	WH-2
B54	PEM/PFO/PSS	Unnamed Tributaries to Champlain Canal (B54-1, B54-2, B54-3, B54-4, B54-5, B54-6, B54-6A)	-
B55	PEM/PSS	Champlain Canal	-
B53	PEM	Unnamed Tributaries to Champlain Canal (B53-1, B53-2, B53-3)	-
B52	PEM	Unnamed Tributary to Champlain Canal (B52-1)	-
B51	PEM	-	-
B48A	PEM	Champlain Canal	-
B50	PEM	-	-
B49	PEM	-	-
B48	PEM/PSS/PFO	Unnamed Tributary to Champlain Canal (B48-1)	-
F19	PFO	Unnamed Tributary to Champlain Canal (F19)	-
F20	POW	-	-
F17	POW/PEM/PSS/PFO	Champlain Canal	FA-13
F16	PFO/PEM	Champlain Canal	-
F14	PFO	Unnamed Tributary to Champlain Canal (F14)	-
F13	PFO/PEM	-	-
F12	PFO/PSS	Unnamed Tributary to Champlain Canal (F12)	FA-12
F11	PFO/PSS	Halfway Creek (F11)	-
F10	PFO/PSS	Champlain Canal	-
F8	PFO/PSS/PEM/POW	Unnamed Tributaries to Champlain Canal (F8-1, F8-2)	-
F4	PEM/PSS	Unnamed Tributary to Champlain Canal (F4)	-
F3	PEM/PSS	-	-
F2	PEM/PSS	Unnamed Tributaries to Champlain Canal (F2-1, F2-2)	-
A54	PSS	Unnamed Tributary to Champlain Canal (A55-S1)	HF-10
A55	PSS	Unnamed Tributary to Champlain Canal (A55-S1)	-
A2	PEM/PSS	Unnamed Tributary to Champlain Canal (A2)	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
A3	PEM/PSS	-	-
A4	PEM	-	-
A5	PSS	-	-
A6	PFO	-	-
A8	PFO	-	-
A9	PFO	-	-
A10	PFO	-	-
A12	PFO	Hudson River (A11)	-
A13	PEM/PSS	-	-
A14	PEM/PSS	Unnamed Tributary to Hudson River (A14)	-
A15	PSS	-	-
A16	PFO	-	-
A18	PFO	-	HF-1
A17	PFO/PEM/PSS	Unnamed Tributaries to Hudson River (A17-1, A17-2)	HF-1
A20	PEM/PSS	-	-
A22	PSS	-	-
A23	PEM	Unnamed Tributary to Hudson River (A23)	-
A24	PFO/PEM/PSS	Unnamed Tributary to Hudson River (A24)	-
A25	PSS	-	-
A26	PFO/PSS/PEM	-	F-20
A27	PFO	-	-
A28	PFO	-	F-7
A29	PFO	North Branch Snook Kill (A29)	F-7
A30	PSS	-	F-7
A31	PSS	-	F-7
A33	PSS	-	-
A34	PSS	-	-
A35	PEM	-	-
A36	PSS	Unnamed Tributary to North Branch Snook Kill (A36)	F-7
A37	PFO/PSS	-	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
A38	PFO/PSS	-	F-7
A41	PSS	Unnamed Tributary to Snook Kill (A41)	-
A44	PFO/PEM	-	-
A45	PFO/PSS	-	-
A46	PSS	-	-
A47	PFO/PSS	-	-
A48	PFO	-	-
A50	PSS	-	-
A51	PSS	-	-
A49	PFO	Unnamed Tributary to Rice Brook (A49, A49-2)	Q-32
A53	PFO/PSS	Unnamed Tributary to Rice Brook (A53)	Q-32
A52	PFO	-	-
D7	PEM	Unnamed Tributary to Rice Brook (D7)	GA-20
D6	PFO	-	GA-20
D8	PFO	-	GA-20
D5	PFO	-	-
D4	PFO	-	-
D3	PFO	-	GA-21
D2	PFO	-	-
D1	PFO	Unnamed Tributary to Rice Brook (D1)	GA-20
B38	PEM	Delegan Brook (B38)	Q-11
B39	PFO/PEM	-	Q-11
B36	PFO/PSS	-	Q-11
B37	PFO/PSS	-	Q-11
B1	PFO/PSS/PEM	Unnamed Tributary to Loughberry Lake/Spring Run (B1)	S-7
B3	PFO/PSS/PEM	Unnamed Tributary to Loughberry Lake/Spring Run (B3-2, B3-1)	S-19
B4	PEM/PSS	-	S-19, S-50
B5	PEM/PSS	Putnam Brook and tributaries (B5-S1, B5-S2, B5-S3, B5-S4)	S-19, S-48
B7	PFO/PSS	-	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
B6	PEM/PSS	-	-
B8	PFO/PSS/PEM	Geyser Brook (B8-S1)	S-19
D9	PEM	-	S-20, S-21
B47	PFO/PSS/PEM	Unnamed Tributary to Geyser Brook (B47)	S-21
B46	PEM	Unnamed Tributary to Kayderosseras Creek (B46-S1)	-
B45	PEM	Unnamed Tributary to Kayderosseras Creek (B45-S1)	-
B44	PFO/PEM	Unnamed Tributary to Kayderosseras Creek (B44)	-
B43	PEM	-	-
B42	PEM	-	-
B41	PFO	-	-
B14	PFO	-	-
B10	PFO	Unnamed Tributaries to Kayaderosseras Creek (B10-S1, B10-S2 and B10-S3, and B10-S6) and Kayderosseras Creek (B10-R1)	-
B13	PSS/PEM	-	S-39
B12	PSS/PEM	-	S-39
B11	PSS/PEM	Kayderosseras Creek (B10-R1)	-
B17	PFO/PEM	-	-
B16	PFO	-	-
B18	PSS/PEM	-	-
B19	PSS/PEM	-	-
B20	PSS/PEM	-	-
B21	PEM	-	R-50
B24	PFO	-	R-51
B23	PEM	Unnamed Tributaries to Mourning Kill (B23-S1, B23-S2)	
B25	PFO/PSS/PEM	Unnamed Tributary to Mourning Kill (B25-S1)	R-3
B26	PSS	-	-
B28	PEM	Mourning Kill (B28)	-
B29	PEM/PSS	-	-
B30	PEM/PSS	Unnamed Tributaries to Ballston Creek (B30-S1, B30-S2)	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
B31	PEM	Unnamed Tributary to Ballston Creek (B31-S1)	R-11
B32	PEM	Unnamed Tributary to Ballston Creek (B32-S1)	R-11
B-C1	PEM	-	-
C1	PSS/PEM	Unnamed Tributary to Ballston Lake (C1)	-
C2	PEM	-	
C4	PEM	-	-
C5	PEM	-	R-18
C8	PFO/PEM	Unnamed Tributaries to Ballston Lake (C8-S1, C8-S2 and C8-S3)	R-18
C9	PSS	-	R-18
C15	PFO	Unnamed Tributary to Ballson Lake (C13)	R-18
C12	PEM	-	-
C14	PEM	-	-
C20	PEM	-	-
C21	PEM	Unnamed Tributary to Alplaus Kill (C21)	-
C23	PEM	-	B-31
C26	PEM	Unnamed Tributary to Alplaus Kill (C26)	B-31
C29	PEM	Unnamed Tributary to Alplaus Kill (C29)	B-31
C31	PSS/PEM	Unnamed Tributary to Alplaus Kill (C31-S1)	B-31
C34	PSS/PEM	Unnamed Tributary to Alplaus Kill (C34)	-
C35	PSS/PEM	-	-
C36	PSS	Unnamed Tributary to Alplaus Kill (C36-S1)	-
C37	PFO/PSS	-	-
C42	PFO/PSS/PEM	Unnamed Tributaries to Mohawk River (C42)	S-107
C44	PEM	-	S-112
C46	PEM	Unnamed Tributary (C46)	-
C48	PEM	Unnamed Tributaries (C48, C49)	-
C56	PEM	-	-
C57	PFO/PSS/PEM	-	S-115
E2	PSS	-	-
E3	PFO	Unnamed Tributary to Normans Kill (E3-1)	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
E4	PEM	Unnamed Tributary to Normans Kill (E4-1)	-
E5	PFO	-	-
E6	PFO/PSS	-	-
E7	PFO/PSS	Unnamed Tributary to Normans Kill (E7-1)	-
E8	PEM	-	-
E9	PEM/PSS	Unnamed Tributaries to Normans Kill (E9-1, E9-2)	S-117
E10	PEM/PSS	Unnamed Tributaries to Normans Kill (E10-1, E10-2)	-
E11	PFO	-	-
E12	PFO/PEM/PSS	Unnamed Tributary to Normans Kill (E12-1)	S-15
E13	PEM	-	-
E14	PFO	Unnamed Tributary to Normans Kill (E14-1)	S-15
E15	PFO/PEM	Unnamed Tributaries to Watervliet Reservoir (E15-1, E15-2)	-
E95	PEM/PSS	Unnamed Tributary to Watervliet Reservoir (E95)	-
E96	PFO/PEM/PSS	-	-
E97	PEM/PSS	Unnamed Tributary to Watervliet Reservoir (E97)	-
E98	POW	Unnamed Tributary (E98)	-
E81	PEM/PSS	-	-
E80	PEM/PSS	-	-
E79	PFO/PSS	-	-
E77	PSS	-	-
E75	PFO	-	-
E16	PEM	-	-
E17	POW	-	-
E18	PEM	-	-
E19	PEM	-	-
E20	PFO/PSS	-	-
E21	PEM/PSS/PFO	Unnamed Tributary to Black Creek (E21)	-
E22	PFO	Unnamed Tributary to Black Creek (E22)	-
E23	PEM	-	-
E24	PEM/PFO	-	V-51

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
E25	PEM	-	-
E26	PEM/PSS	-	-
E27	PEM	-	-
E28	PEM/PSS/PFO	Unnamed Tributary to Vly Creek (E28)	V-52
E29	PEM/PSS/PFO	Unnamed Tributary to Vly Creek (E29)	-
E31	PSS	-	-
E32	PEM	Unnamed Tributary to Vloman Kill (E32)	-
E33	PSS/PEM	Unnamed Tributaries to Vloman Kill (E33-1, E33-2)	-
E82	PEM	Unnamed Tributary to Vloman Kill (E82-1)	-
E84	PEM	-	-
E85	PEM	-	-
E83	PEM	-	-
E34	PEM/PFO	-	-
E35	PFO	-	-
E36	PFO	-	-
E37	PSS/PFO	Unnamed Tributary to Vloman Kill (E37)	-
E39	PEM	Unnamed Tributary to Vloman Kill (E39-1)	-
E40	PEM	-	-
E41	PEM	-	-
E42	PFO/PEM	-	-
E43	PFO/PEM	-	-
E44	PEM	-	-
E46	PEM	-	-
E47	PFO/PEM	-	-
E49	PFO/PEM	-	-
E48	PFO/PEM	Unnamed Tributaries to Vloman Kill (E48-1, E48-2, E48-3)	-
E51	PEM	-	-
E52	PEM	-	-
E58	PEM	Coeymans Creek (E58)	-
E59	PEM/PFO/PSS	-	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
E53	PEM	Unnamed Tributary to Coeymans Creek (E53-1)	-
E60	PEM	-	-
E54	PEM	-	-
E55	PEM	-	-
E61	PEM	-	-
E93	PEM	-	-
E92	PEM	-	-
E91	PEM	-	-
E56	PEM	-	-
E90	PEM	-	-
E57	PEM/PSS	-	-
E94	PEM	-	-
E62	PEM	Unnamed Tributary to Coeymans Creek (E62-1)	-
E102	PEM	-	-
E103	PSS/PFO/PEM	Unnamed Tributaries to Coeymans Creek (E103, E103-1, E103-2)	-
E63	PEM/PFO	Unnamed Tributaries to Vlomans Kill (E63-1, E63-2, E63-3)	-
E104	PEM	-	-
E65	PEM	-	-
E67	PFO	-	-
E87	PEM	-	-
E106	PEM	-	-
E64	PEM/PSS/PFO	-	-
E88	PEM	-	-
E101	PEM	-	-
E89	PEM	Unnamed Tributaries to Coeymans Creek (E89-1, E89-2, E89-3)	-
E99	PFO/PSS/PEM	Unnamed Tributaries to Coeymans Creek (E99, E99-1)	-
E100	PEM	-	-
E73	PEM	Unnamed Tributaries to Coeymans Creek (E73, E73-1, E73-2)	-
E71	PFO/PSS	-	-

Table 4-1
Summary of Wetlands Within the Study Area[1]

Wetland ID	Cowardin Classification[2]	Associated Water Course	NYSDEC Mapped Wetland (#)
E72	PEM	-	-
E69	PEM/PFO	Unnamed Tributary to Hudson River (E69)	-
E70	PSS	-	-
E68	PEM/PSS	-	-

[1] Wetlands identified include both wetlands that are directly crossed by the underground transmission cable corridor as well as wetlands that are adjacent to the Project route that were delineated during field surveys.
[2] Cowardin et al. 1979 categories include: Palustrine Emergent (PEM), Palustrine Forested (PFO), Palustrine Scrub-Shrub (PSS), and Palustrine Open Water (POW).

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Champlain Canal	B56	Intermittent	Gravel-cobble	2	0.5
Unnamed Tributary to Champlain Canal	B54-6A	Perennial	Silt-mud	10	2
Unnamed Tributary to Champlain Canal	B54-6	Perennial	Silt-mud	6	2
Unnamed Tributary to Champlain Canal	B54-5	Perennial	Silt-mud	30	3
Unnamed Tributary to Champlain Canal	B54-4	Perennial	Silt-mud	30	3
Unnamed Tributary to Champlain Canal	B54-3	Perennial	Silt-mud	30	3
Unnamed Tributary to Champlain Canal	B54-2	Perennial	Silt-mud	20	2
Unnamed Tributary to Champlain Canal	B54-1	Perennial	Silt-mud	30	3
Unnamed Tributary to Champlain Canal	B53-3	Intermittent	Silt-mud	3	0.5
Unnamed Tributary to Champlain Canal	B53-2	Intermittent	Silt-mud	3	0.5
Unnamed Tributary to Champlain Canal	B53-1	Intermittent	Silt-mud	2	0.5
Unnamed Tributary to Champlain Canal	B52-1	Intermittent	Silt-mud	6	1-2
Unnamed Tributary to Champlain Canal	B48-1	Intermittent	Silt-mud	6	0.5
Unnamed Tributary to Champlain Canal	F18	Intermittent	Silt-mud	6	<0.5
Unnamed Tributary to Champlain Canal	F19	Intermittent	Silt-mud/gravel-cobble	3	0.5
Unnamed Tributary to Champlain Canal	F15	Intermittent	Silt-mud	8	<0.5
Unnamed Tributary to Champlain Canal	F14	Intermittent	Sand	6	0.25
Unnamed Tributary to Champlain Canal	F12	Perennial	Silt-mud/gravel-cobble/boulder	15	Unknown
Halfway Creek	F11	Perennial	Silt-mud	50	Unknown
Unnamed Tributary to Champlain Canal	F9	Ephemeral	Sand	6	<0.5
Unnamed Tributary to Champlain Canal	F8-2	Intermittent	Gravel-cobble	10	<0.5

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Champlain Canal	F8-1	Perennial	Silt-mud	50	Unknown
Unnamed Tributary to Champlain Canal	F7	Ephemeral	Gravel-cobble/boulder	5	0
Unnamed Tributary to Champlain Canal	F6	Ephemeral	Mix	1	0
Unnamed Tributary to Champlain Canal	F5	Perennial	Gravel-cobble/boulder	30	0.5
Unnamed Tributary to Champlain Canal	F4	Intermittent	Gravel-cobble	25	0.1
Unnamed Tributary to Champlain Canal	F2-2	Perennial	Gravel-cobble	25	0.5
Unnamed Tributary to Champlain Canal	F2-1	Intermittent	Silt-mud	6	0
Unnamed Tributary to Champlain Canal	A55	Perennial	Silt-mud	8	3
Bond Creek	A1	Perennial	Silt-mud	30	5
Unnamed Tributary to Champlain Canal	A2	Intermittent	Peat-muck	3.5	1
Unnamed Tributary to Champlain Canal	A7-1	Perennial	Mix	3.0	0.5
Unnamed Tributary to Champlain Canal	A7-2	Intermittent	Gravel-cobble	1.5	0
Hudson River (East Channel)	A11-1	Perennial	Unknown	200	20
Hudson River (West Channel)	A11-2	Perennial	Unknown	200	20
Unnamed Tributary to the Hudson River	A14	Intermittent	Silt-mud	0.5-1	0.5
Unnamed Tributary to the Hudson River	A17-1	Intermittent	Silt-mud/mix/gravel-cobble	1-5	0.2-0.5
Unnamed Tributary to the Hudson River	A17-2	Intermittent	Silt-mud	1	0.25
Unnamed Tributary to the Hudson River	A19	Intermittent	Silt-mud/mix	1-2	0.25-0.75
Unnamed Tributary to the Hudson River	A21	Intermittent	Silt-mud	1-5	0.5-0.6
Unnamed Tributary to the Hudson River	A23	Intermittent	Boulder	1-2	0.5
Unnamed Tributary to the Hudson River	A24	Intermittent	Silt-mud	1-2	0.25-0.5
North Branch Snook Kill	A29	Perennial	Unknown	15-30	4

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to North Branch Snook Kill	A36	Intermittent	Unknown/silt-mud	2.0	0.50
Unnamed Tributary to Snook Kill	A41	Perennial	Mix/Silt-mud	0.5-1	0.2-0.5
Snook Kill	A42	Perennial	Gravel-cobble	15	2
Unnamed Tributary to Snook Kill	A43	Intermittent	Silt-mud/mix/gravel-cobble	1-2.5	0.2
Unnamed Tributary to Snook Kill	A44-2	Intermittent	Gravel-cobble	1.5-3	0.3-0.5
Unnamed Tributary to Rice Brook	A49-1	Perennial	Mix/gravel-cobble/Silt-mud	4-6	1
Unnamed Tributary to Rice Brook	A49-2	Intermittent	Silt-mud/unknown	3	0.5
Unnamed Tributary to Rice Brook	A53	Intermittent	Silt-mud	2-4	0.5
Unnamed Tributary to Rice Brook	D7	Perennial	Sand/gravel-cobble	6	1
Unnamed Tributary to Rice Brook	D1	Ephemeral	Mix/peat-muck	2-2.5	0.5
Delegan Brook	B38	Perennial	Unknown	Unknown	Unknown
Unnamed Tributary to Loughberry Lake/Spring Run	B1	Perennial	Silt-mud/peat-muck/mix	8-10	1-2.5
Unnamed Tributary to Loughberry Lake/Spring Run	B2	Intermittent	Unknown	2-3	0-1
Unnamed Tributary to Loughberry Lake/Spring Run	B3-2	Intermittent	Sand	3-6	0.5
Unnamed Tributary to Loughberry Lake/Spring Run	B3-1	Intermittent	Gravel-cobble	3-6	0.5
Unnamed Tributary to Putnam Brook	B5-1	Perennial	Silt-mud	10	2
Unnamed Tributary to Putnam Brook	B5-3	Intermittent	Gravel-cobble/mix	3	1-2
Unnamed Tributary to Putnam Brook	B5-4	Intermittent	Silt-mud	0.5	0.2
Putnam Brook	B5-2	Perennial	Silt-mud	4-20	2-3.5
Geyser Brook	B8-1	Perennial	Silt-mud	24-30	4-5

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Geyser Brook	B8-2	Intermittent	Silt-mud	2-3	0.5
Unnamed Tributary to Geyser Brook	B8-3	Intermittent	Silt-mud	3	0.5
Unnamed Tributary to Geyser Brook	B47	Perennial	Unknown	Unknown	Unknown
Unnamed Tributary to Kayaderosseras Creek	B46	Intermittent	Sand	3	0.5
Unnamed Tributary to Kayaderosseras Creek	B45-1	Intermittent	Silt-mud	3	0.5
Unnamed Tributary to Kayaderosseras Creek	B45-2	Perennial	Silt-mud	10.0	1
Unnamed Tributary to Kayaderosseras Creek	B45-3	Intermittent	Silt-mud	3	0
Unnamed Tributary to Kayaderosseras Creek	B44	Perennial	Unknown	Unknown	Unknown
Unnamed Tributary to Kayaderosseras Creek	B9-1	Intermittent	Sand	2	0.5
Unnamed Tributary to Kayaderosseras Creek	B9-2	Intermittent	Sand	2-3	0.5
Unnamed Tributary to Kayaderosseras Creek	B10-1	Intermittent	Sand	2-3	0.5
Unnamed Tributary to Kayaderosseras Creek	B10-2	Intermittent	Sand	3-10	0.5
Unnamed Tributary to Kayaderosseras Creek	B10-3	Intermittent	Sand/Silt-mud	3-6	0.5
Unnamed Tributary to Kayaderosseras Creek	B10-6	Intermittent	Sand	3-4	0.5
Kayaderosseras Creek	B10-7	Perennial	Unknown	45-50	5
Unnamed Tributary to Mourning Kill	B23-1	Intermittent	Silt-mud	2.0	0.5
Unnamed Tributary to Mourning Kill	B23-2	Intermittent	Silt-mud	2.0	0.5
Unnamed Tributary to Mourning Kill	B23-3	Intermittent	Silt-mud	2.0	0.5
Unnamed Tributary to Mourning Kill	B23-4	Intermittent	Silt-mud	2.0	0.5
Unnamed Tributary to Mourning Kill	B23-5	Intermittent	Silt-mud	2.0	0.5
Unnamed Tributary to Mourning Kill	B25-1	Intermittent	Gravel-cobble	2.5	0.5
Mourning Kill	B28	Perennial	Gravel-cobble	20.0	3

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Ballston Creek	B30-1	Ephemeral	Gravel-cobble	0.5-1	0
Unnamed Tributary to Ballston Creek	B30-2	Intermittent	Boulder	3-5	1
Unnamed Tributary to Ballston Creek	B31-1	Intermittent	Gravel-cobble	2-6	<1
Unnamed Tributary to Ballston Creek	B32-1	Intermittent	Gravel-cobble	4-8	1
Unnamed Tributary to Ballston Lake	B34-1	Intermittent	Mix	6	1
Unnamed Tributary to Ballston Lake	B35-1	Intermittent	Gravel-cobble	6	0.5
Unnamed Tributary to Ballston Lake	C1	Perennial	Gravel-cobble	10	0.5
Unnamed Tributary to Ballston Lake	C5	Intermittent	Gravel-cobble/Unknown	1.5-6	0.5
Unnamed Tributary to Ballston Lake	C6	Intermittent	Unknown	3-6	0.3-0.5
Unnamed Tributary to Ballston Lake	C7	Intermittent	Unknown/gravel-cobble	4-10	0.5
Unnamed Tributary to Ballston Lake	C8-1	Intermittent	Unknown/gravel-cobble/peat-muck	0.5-8	0.5
Unnamed Tributary to Ballston Lake	C8-2	Intermittent	Unknown/gravel-cobble/peat-muck	0.5-8	0.5
Unnamed Tributary to Ballston Lake	C8-3	Intermittent	Unknown/gravel-cobble/peat-muck	0.5-8	0.5
Unnamed Tributary to Ballston Lake	C11	Intermittent	Unknown/mix/gravel-cobble	1.5-2	0.2
Unnamed Tributary to Ballston Lake	C13	Intermittent	Unknown/gravel-cobble	5-6	0.4
Unnamed Tributary to Ballston Lake	C16	Intermittent	Gravel-cobble/mix	2-7	0.2-0.4
Unnamed Tributary to Ballston Lake	C18	Intermittent	Gravel-cobble	2-3	0.2-0.3
Unnamed Tributary to Alplaus Kill	C21	Intermittent	Gravel-cobble/mix/silt-mud	3-12	0.25-1.5
Unnamed Tributary to Alplaus Kill	C24	Ephemeral	Gravel-cobble	5	2
Unnamed Tributary to Alplaus Kill	C25	Ephemeral	Gravel-cobble/mix/silt-mud	1.5-2.5	0.5-1
Unnamed Tributary to Alplaus Kill	C26	Perennial	Mix	8	1-3

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Alplaus Kill	C28	Ephemeral	Gravel-cobble	0.5-3	0.25-0.5
Unnamed Tributary to Alplaus Kill	C29	Ephemeral	Silt-mud	3-4	0.5-1
Unnamed Tributary to Alplaus Kill	C31	Ephemeral	Silt-mud/mix/gravel-cobble	3-6	0.5-1
Unnamed Tributary to Alplaus Kill	C34	Intermittent	Mix	3.0	0.60
Unnamed Tributary to Alplaus Kill	C36	Intermittent	Mix	3.0	0.60
Alplaus Kill	C33	Perennial	Silt-mud/Gravel-cobble	10-30	5
Unnamed Tributary to Alplaus Kill	C38	Intermittent	Silt-mud	3	0.3
Unnamed Tributary to Alplaus Kill	C40	Intermittent	Silt-mud	1.5	0.1
Unnamed Tributary to Alplaus Kill	C39	Intermittent	Gravel-cobble	3	0.1-0.2
Unnamed Tributary to Mohawk River	C42-1	Intermittent	Peat-muck/unknown	1-4	0.1-0.5
Unnamed Tributary to Mohawk River	C42-2	Intermittent	Peat-muck/gravel-cobble	3-12	0.3-1.5
Unnamed Tributary to Mohawk River	C43	Ephemeral	Unknown/silt-mud	4-8	0-0.5
Mohawk River	C43A	Perennial	Unknown	Unknown	Unknown
Unnamed Tributary	C46	Intermittent	Peat-muck, silt-mud, unknown	1-2	0.1-0.2
Unnamed Tributary	C47	Ephemeral	Silt-mud	0.5	0.25-2
Unnamed Tributary	C48	Intermittent	Silt-mud	1	0.1
Unnamed Tributary	C49	Intermittent	Silt-mud	3	0.1
Unnamed Tributary	C50	Intermittent	Silt-mud	2	0.1
Unnamed Tributary	C51	Intermittent	Silt-mud	5	0.1
Unnamed Tributary	C52	Ephemeral	Mix	2	0.1
Unnamed Tributary	C53	Intermittent	Silt-mud/mix/unknown	3	0.1
Unnamed Tributary	C54	Intermittent	Unknown/gravel-cobble/silt-mud	3	0.1
Unnamed Tributary	C55	Ephemeral	Silt-mud	2-4	0.1
Unnamed Tributary	C57	Intermittent	Unknown	0.5	0.1

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Poentic Kill	C58	Perennial	Boulder	12-25	0.6-1.5
Poentic Kill	E1	Perennial	Gravel-cobble/boulder	15	0.5
Unnamed Tributary to Normans Kill	E3-1	Perennial	Silt-mud/gravel-cobble	6	0.5
Unnamed Tributary to Normans Kill	E4-1	Perennial	Silt-mud/gravel-cobble	5-12	1
Unnamed Tributary to Normans Kill	E7-1	Perennial	Silt-mud	5-10	0.5
Unnamed Tributary to Normans Kill	E9-1	Perennial	Silt-mud	5	<0.5
Unnamed Tributary to Normans Kill	E9-2	Perennial	Silt-mud	8	0.5
Unnamed Tributary to Normans Kill	E10-1	Perennial	Silt-mud/gravel-cobble	4-12	1
Unnamed Tributary to Normans Kill	E10-2	Perennial	Gravel-cobble	8-12	1
Unnamed Tributary to Normans Kill	E12-1	Perennial	Gravel-cobble	10-15	0.5-1
Unnamed Tributary to Normans Kill	E14-1	Perennial	Sand	8	0.5-1
Unnamed Tributary to Watervliet Reservoir	E15-1	Perennial	Silt-mud	10-15	0.5-1
Unnamed Tributary to Watervliet Reservoir	E15-2	Perennial	Silt-mud	12-25	1
Unnamed Tributary to Watervliet Reservoir	E95	Perennial	Gravel-cobble	10	1
Unnamed Tributary to Watervliet Reservoir	E97	Perennial	Silt-mud/gravel-cobble	10	0.5
Unnamed Tributary to Unnamed Pond (E98)	E98	Intermittent	Silt-mud	3	0.1
Normans Kill	E74	Perennial	Bedrock	300	4
Unnamed Tributary to Black Creek	E22	Intermittent	Silt-mud	2	0.25
Unnamed Tributary to Black Creek	E21	Intermittent	Silt-mud/gravel-cobble	2	0.5
Unnamed Tributary to Vly Creek	E28	Perennial	Silt-mud/gravel-cobble	4	0.5-1.5
Unnamed Tributary to Vly Creek	E29	Perennial	Silt-mud	6-10	1-1.5
Vly Creek	E30	Perennial	Gravel-cobble/boulder	35	0.5-1
Unnamed Tributary to Vloman Kill	E32	Perennial	Mix	5	0.75
Unnamed Tributary to Vloman Kill	E33-1	Perennial	Gravel-cobble	4	0.5

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Vloman Kill	E33-2	Perennial	Silt-mud	1	0.25
Unnamed Tributary to Vloman Kill	E82-1	Intermittent	Silt-mud	6	0.25
Unnamed Tributary to Vloman Kill	E37	Perennial	Silt-mud	4	1
Unnamed Tributary to Vloman Kill	E38	Perennial	Gravel-cobble	15	0.25-1
Unnamed Tributary to Vloman Kill	E39-1	Intermittent	Silt-mud	3	0.5
Vloman Kill	E45-2	Perennial	Silt-mud/gravel-cobble	8-15	1
Unnamed Tributary to Vloman Kill	E45-1	Intermittent	Gravel-cobble	6	0.25
Unnamed Tributary to Vloman Kill	E45-2	Intermittent	Silt-mud	3	<0.5
Unnamed Tributary to Vloman Kill	E50-1	Perennial	Gravel-cobble	10	1
Unnamed Tributary to Vloman Kill	E50-2	Intermittent	Gravel-cobble	3	<0.5
Unnamed Tributary to Vloman Kill	E50-3	Perennial	Gravel-cobble	6	<0.5
Unnamed Tributary to Vloman Kill	E86	Perennial	Gravel-cobble	10-30	1-3
Unnamed Tributary to Vloman Kill	E48-1	Intermittent	Silt-mud/gravel-cobble	4	<0.25
Unnamed Tributary to Coeymans Creek	E48-2	Perennial	Silt-mud	10	0.5
Unnamed Tributary to Coeymans Creek	E48-3	Intermittent	Silt-mud	3-6	<0.5
Unnamed Tributary to Coeymans Creek	E53-1	Perennial	Mix	8	0.5
Coeymans Creek	E58	Perennial	Silt-mud	15	0.5
Unnamed Tributary to Coeymans Creek	E62-1/E103-1	Perennial	Silt-mud/gravel-cobble	15	2
Unnamed Tributary to Coeymans Creek	E103	Intermittent	Silt-mud	3	<0.5
Unnamed Tributary to Coeymans Creek	E103-2	Intermittent	Silt-mud/boulder	3	<0.5
Unnamed Tributary to Vloman Kill	E63-3	Perennial	Silt-mud	4	0.1
Unnamed Tributary to Vloman Kill	E63-1	Ephemeral	Silt-mud	3	<0.5
Unnamed Tributary to Vloman Kill	E63-2	Ephemeral	Silt-mud	3-6	<0.5

Table 4-2
Summary of Waterbodies within the Study Area

Waterbody Name	Waterbody Field ID	Flow Status	Substrate	Width (feet)	Depth (feet)
Unnamed Tributary to Vloman Kill	E66-1	Perennial	Silt-mud	10	<0.5
Unnamed Tributary to Vloman Kill	E66-2	Intermittent	Silt-mud/gravel-cobble	3	<0.5
Unnamed Tributary to Coeymans Creek	E105	Perennial	Silt-mud/concrete	10	2-3
Unnamed Tributary to Coeymans Creek	E89-1	Perennial	Silt-mud	15-30	0.5
Unnamed Tributary to Coeymans Creek	E89-2	Ephemeral	Silt-mud	3	0.1
Unnamed Tributary to Coeymans Creek	E99	Perennial	Boulder	20	1
Unnamed Tributary to Coeymans Creek	E99-1	Ephemeral	Silt-mud	1	0.1
Unnamed Tributary to Coeymans Creek	E89-3	Intermittent	Silt-mud	4-6	0.5-1
Unnamed Tributary to Coeymans Creek	E107	Ephemeral	Silt-mud	3	0.5
Unnamed Tributary to Coeymans Creek	E73	Intermittent	Silt-mud	2-6	<0.25
Unnamed Tributary to Coeymans Creek	E73-1	Ephemeral	Silt-mud	1	0.1
Unnamed Tributary to Coeymans Creek	E73-2	Ephemeral	Silt-mud	1	<0.1
Unnamed Tributary to Hudson River	E69	Intermittent	Silt-mud/gravel-cobble	3	0.5

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Hydric Soils					
Albany	Birdsall mucky silt loam	Br	0-2	Y	Very poorly drained
Albany	Fluvaquents-Udifluvents complex, frequently flooded	Fx	0-3	Y	Poorly drained
Albany	Granby loamy fine sand	Gr	0-2	Y	Very poorly drained
Albany	Ilion silt loam	In	0-3	Y	Poorly drained
Albany	Madalin silt loam	Ma	0-3	Y	Poorly drained
Albany	Raynham very fine sandy loam	Ra	0-3	Y	Poorly drained
Albany	Shaker fine sandy loam	Sh	0-3	Y	Poorly drained
Albany	Wayland silt loam	Wo	0-3	Y	Poorly drained
Saratoga	Allis silt loam	As	0-3	Y	Poorly Drained
Saratoga	Fluvaquents frequently flooded	Fl	0-3	Y	Poorly Drained
Saratoga	Ilion silt loam	In	0-3	Y	Poorly Drained
Saratoga	Limerick-Saco complex	Lm	0-3	Y	Poorly Drained
Saratoga	Madalin mucky silty clay loam	Ma	0-3	Y	Very Poorly Drained
Saratoga	Palms muck	Pm	0-2	Y	Very Poorly Drained
Saratoga	Shaker very fine sandy loam	Sh	0-3	Y	Poorly Drained
Saratoga	Sun silt loam	Sn	0-3	Y	Poorly Drained
Saratoga	Wareham loamy sand	Wa	0-3	Y	Poorly Drained
Schenectady	Cheektowaga fine sandy loam	Ce	0-3	Y	Very Poorly Drained
Schenectady	Fluvaquents, loamy	Fl	0-2	Y	Poorly Drained
Schenectady	Fredon silt loam	Fr	0-3	Y	Somewhat Poorly Drained
Schenectady	Granby loamy fine sand	Gr	0-3	Y	Poorly Drained

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Schenectady	Ilion silt loam	IlA	0-3	Y	Poorly Drained
Schenectady	Junius loamy fine sand	Ju	0-3	Y	Poorly Drained
Schenectady	Madalin silty clay loam	Ma	0-3	Y	Poorly Drained
Schenectady	Wayland silt loam	Wy	0-2	Y	Poorly Drained
Washington	Carlisle muck	Ca	0-2	Y	Very Poorly Drained
Washington	Covington silty clay loam	Cv	0-2	Y	Poorly Drained
Washington	Limerick silt loam	Lm	0-2	Y	Poorly Drained
Washington	Saco silt loam	Sa	0-2	Y	Very Poorly Drained
Washington	Saprists, Aquepts, and Aquents	SB	0-2	Y	Very Poorly Drained
Non-hydric Soils					
Albany	Burdett silt loam	BuA	0-3	N	Somewhat poorly drained
Albany	Burdett silt loam	BuB	3-8	N	Somewhat poorly drained
Albany	Castile gravelly loam	CeA	0-3	N	Moderately well drained
Albany	Chenango gravelly silt loam, loamy substratum	ChB	3-8	N	Well drained
Albany	Chenango gravelly silt loam, loamy substratum, rolling	ChC	8-15	N	Well drained
Albany	Chenango channery silt loam, fan	CkB	3-8	N	Well drained
Albany	Claverack loamy fine sand	ClB	3-8	N	Moderately well drained
Albany	Colonie loamy fine sand	CoB	3-8	N	Well drained
Albany	Colonie loamy fine sand, rolling	CoC	8-15	N	Somewhat excessively drained
Albany	Colonie loamy fine sand, hilly	CoD	15-25	N	Somewhat excessively drained
Albany	Cosad loamy fine sand	Cs	0-3	N	Somewhat poorly drained
Albany	Elmridge fine sandy loam	ElA	0-3	N	Moderately well drained

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Albany	Elmridge fine sandy loam	ElB	3-8	N	Moderately well drained
Albany	Elnora loamy fine sand	EnA	0-3	N	Moderately well drained
Albany	Elnora loamy fine sand	EnB	3-8	N	Moderately well drained
Albany	Hudson silt loam	HuB	3-8	N	Moderately well drained
Albany	Hudson silt loam, hilly	HuD	15-25	N	Moderately well drained
Albany	Hudson silt loam	HuE	25-45	N	Moderately well drained
Albany	Manlius channery silt loam	MbE	25-35	N	Somewhat excessively drained
Albany	Nassau very channery silt loam, hilly, very rocky	NrD	15-25	N	Somewhat excessively drained
Albany	Nunda silt loam	NuB	3-8	N	Moderately well drained
Albany	Rhinebeck silty clay loam	RhA	0-3	N	Somewhat poorly drained
Albany	Rhinebeck silty clay loam	RhB	3-8	N	Somewhat poorly drained
Albany	Riverhead fine sandy loam	RkA	0-3	N	Well drained
Albany	Riverhead fine sandy loam	RkB	3-8	N	Well drained
Albany	Scio silt loam	ScA	0-3	N	Moderately well drained
Albany	Scio silt loam	ScB	3-8	N	Moderately well drained
Albany	Stafford loamy fine sand	St	0-3	N	Somewhat poorly drained
Albany	Sudbury fine sandy loam	SuA	0-3	N	Moderately well drained
Albany	Teel silt loam	Te	0-3	N	Moderately well drained
Albany	Udipsamments, smoothed	Ud	0-45	N	Well drained
Albany	Udipsamments, dredged	Ue	0-8	N	Well drained
Albany	Udipsamments-Urban land complex	Uf	0-8	N	Somewhat excessively drained
Albany	Udorthents, loamy	Ug	0-8	N	Moderately well drained

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Albany	Udorthents, clayey-Urban land complex	Uh	0-8	N	Moderately well drained
Albany	Udorthents, loamy-Urban land complex	Uk	0-8	N	Well drained
Albany	Unadilla silt loam	UnC	8-15	N	Well drained
Albany	Unadilla silt loam	UnD	15-25	N	Well drained
Albany	Urban land	Ur	0-15	N	-
Saratoga	Broadalbin silt loam	BtB	3-8	N	Moderately Well Drained
Saratoga	Broadalbin-Manlius-Nassau, complex, undulating	BvB	3-8	N	Moderately Well Drained
Saratoga	Broadalbin-Manlius-Nassua, complex, rolling	BvC	8-15	N	Moderately Well Drained
Saratoga	Burdett silt loam	BxB	3-8	N	Moderately Well Drained
Saratoga	Claverack loamy fine sand	ClA	0-3	N	Moderately Well Drained
Saratoga	Claverack loamy fine sand	ClB	3-8	N	Moderately Well Drained
Saratoga	Cosad fine sandy loam	Cs	0-3	N	Somewhat Poorly Drained
Saratoga	Deerfield loamy fine sand, nearly level	DeA	0-3	N	Moderately Well Drained
Saratoga	Deerfield loamy fine sand, undulating	DeB	3-8	N	Moderately Well Drained
Saratoga	Elmridge very fine sandy loam	ElB	3-8	N	Moderately Well Drained
Saratoga	Hudson silt loam	HuB	3-8	N	Moderately Well Drained
Saratoga	Hudson silt loam	HuC	8-15	N	Moderately Well Drained
Saratoga	Hudson silt loam, hilly	HuD	15-25	N	Moderately Well Drained
Saratoga	Manlius-Nassau complex, undulating, rocky	MnB	3-8	N	Well Drained
Saratoga	Mosherviller silt loam	MvA	0-3	N	Somewhat Poorly Drained
Saratoga	Mosherviller silt loam	MvB	3-8	N	Somewhat Poorly Drained
Saratoga	Mosherville-Hornell complex, undulating	MxB	3-8	N	Somewhat Poorly Drained

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Saratoga	Nunda silt loam	NuB	3-8	N	Moderately Well Drained
Saratoga	Oakville loamy fine sand, nearly level	OaA	0-3	N	Well Drained
Saratoga	Oakville loamy fine sand, undulating	OaB	3-8	N	Well Drained
Saratoga	Oakville loamy fine sand, rolling	OaC	8-15	N	Well Drained
Saratoga	Oakville and Windsor soils	OaE	25-35	N	Well Drained
Saratoga	Rhinebeck silt loam	RhA	0-3	N	Somewhat Poorly Drained
Saratoga	Rhinebeck silt loam	RhB	3-8	N	Somewhat Poorly Drained
Saratoga	Scio silt loam	SeB	3-8	N	Moderately Well Drained
Saratoga	Teel silt loam	Te	0-3	N	Moderately Well Drained
Saratoga	Unadilla very fine sandy loam	UnB	3-8	N	Well Drained
Saratoga	Unadilla very fine sandy loam	UnC	8-15	N	Well Drained
Saratoga	Windsor loamy sand, nearly level	WnA	0-3	N	Excessively Drained
Saratoga	Windsor loamy sand, undulating	WnB	3-8	N	Excessively Drained
Saratoga	Windsor loamy sand, rolling	WnC	8-15	N	Excessively Drained
Schenectady	Burdett-Scriba channery silt loams	BvA	0-3	N	Somewhat Poorly Drained
Schenectady	Claverack loamy fine sand	ClA	0-3	N	Moderately Well Drained
Schenectady	Claverack loamy fine sand	ClB	3-8	N	Moderately Well Drained
Schenectady	Colonie loamy fine sand	CoA	0-3	N	Well Drained
Schenectady	Colonie and Plainfield soils, steep	CPE	15-20	N	Well Drained
Schenectady	Cut and fill land	Cu	-	N	Somewhat Excessively Drained
Schenectady	Elnora loamy fine sand	En	0-3	N	Moderately Well Drained
Schenectady	Howard soils, very steep	HTF	25-70	N	Well Drained

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Schenectady	Hudson silty clay loam	HuB	3-8	N	Moderately Well Drained
Schenectady	Mardin gravelly silt loam	MrB	3-8	N	Moderately Well Drained
Schenectady	Nunda channery silt loam	NuB	3-8	N	Moderately Well Drained
Schenectady	Plainfield loamy sand	PsA	0-3	N	Excessively Drained
Schenectady	Raynham silt loam	Ra	0-3	N	Somewhat Poorly Drained
Schenectady	Rhinebeck silty clay loam	RhA	0-3	N	Somewhat Poorly Drained
Schenectady	Rhinebeck silty clay loam	RhB	3-8	N	Somewhat Poorly Drained
Schenectady	Scio silt loam	ScA	0-3	N	Moderately Well Drained
Schenectady	Scio silt loam	ScB	3-8	N	Moderately Well Drained
Schenectady	Teel silt loam	Te	0-3	N	Moderately Well Drained
Washington	Claverack loamy fine sand	ClA	0-2	N	Moderately Well Drained
Washington	Claverack loamy fine sand	ClB	2-6	N	Moderately Well Drained
Washington	Hollis-Charlton association, moderately steep and steep	HLE	15-25	N	Well Drained
Washington	Hollis-Rock outcrop association, gently sloping and sloping	HNC	3-8	N	Well Drained
Washington	Hudson and Vergennes soils, steep and very steep	HWE		N	Moderately well drained
Washington	Kingsbury silty clay	KbA	0-2	N	Somewhat Poorly Drained
Washington	Orthents and Psamments	OP	0-15	N	Well Drained
Washington	Vergennes silty clay loam	VeB	2-6	N	Moderately Well Drained
Washington	Vergennes silty clay loam	VeC	6-12	N	Moderately Well Drained
Washington	Vergennes silty clay loam	VeD	12-20	N	Moderately Well Drained
Washington	Wallington silt loam, sandy substratum	Wa	0-2	N	Somewhat Poorly Drained

Table 4-3
Soil Description Summary

County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Westchester	Urban Land	Uf	0-8	N	-

ATTACHMENT C

WETLAND AND STREAM PHOTOGRAPHS

Shallow emergent marsh (B54, Whitehall, Washington County)

Shallow emergent marsh (C34, Clifton Park, Schenectady County)

04/21/2010 17:05

Shallow emergent marsh (E10, Guilderland, Albany County)

Deep emergent marsh (B56, Whitehall, Washington County)

Deep emergent marsh (C23, Clifton Park, Saratoga County)

Deep emergent marsh (E15, Guilderland, Albany County)

Reedgrass/purple loosestrife marsh (B30, Ballston, Saratoga County)

Reedgrass/purple loosestrife marsh (C29, Clifton Park, Saratoga County)

Reedgrass/purple loosestrife marsh (E8, Rotterdam, Schenectady County)

Ditch/artificial intermittent stream (B20, Ballston, Saratoga County)

Ditch/artificial intermittent stream (C2, Ballston, Saratoga County)

Ditch/artificial intermittent stream (E41, New Scotland, Albany County)

Scrub shrub wetland (A22, Moreau, Saratoga County)

Scrub shrub wetland (B6, Saratoga Springs, Saratoga County)

05/03/2010 13:42

Scrub shrub wetland (E43, New Scotland, Albany County)

Red maple-hardwood swamp (A49, Northumberland, Saratoga County)

Red maple-hardwood swamp (C15, Ballston, Saratoga County)

Red maple-hardwood swamp (E96, Guilderland, Albany County)

Floodplain forest (D10, Whitehall, Washington County)

Floodplain forest (A12, Moreau, Saratoga County)

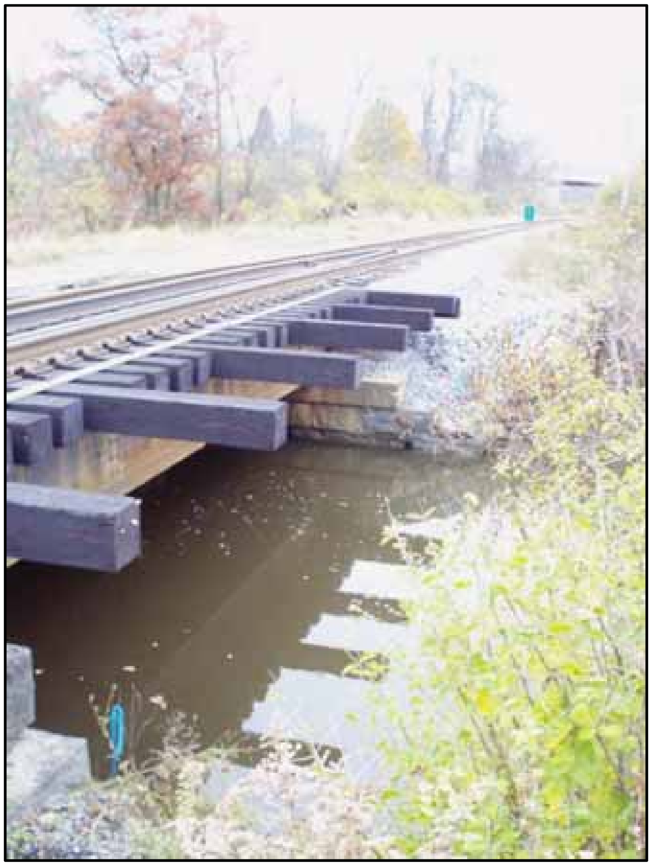
Silver maple-ash swamp (Fort Ann, Washington County)

Palustrine open water (D9, Saratoga Springs, Saratoga County)

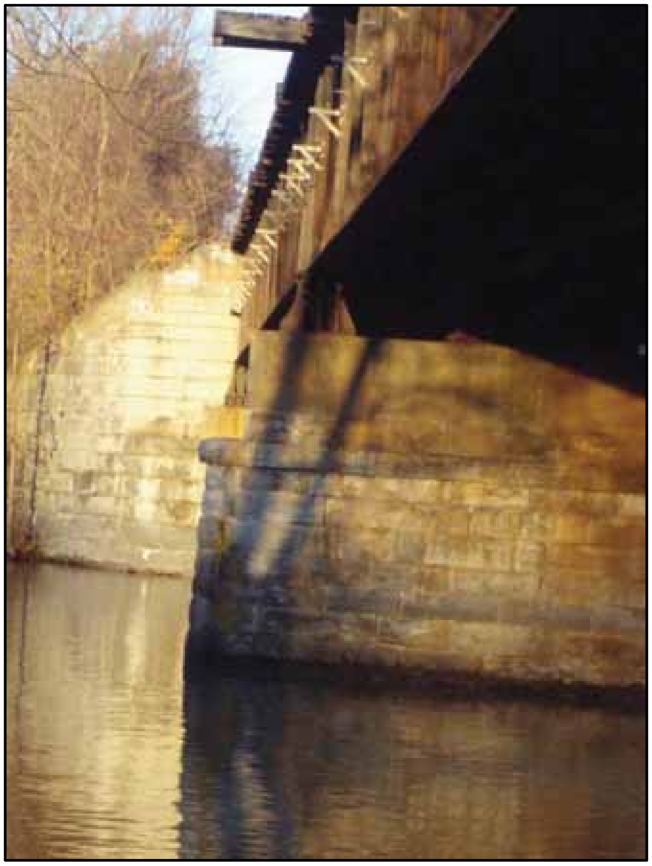
Palustrine open water (E15, Guilderland, Albany County)

Champlain Canal (D10, Whitehall, Washington County)

Halfway Creek crossing (F11, Fort Ann, Washington County)



Bond Creek crossing (A1, Kingsbury, Washington County)



Hudson River crossing (A11, Fort Edward, Washington County & Moreau, Saratoga County)

Snook Kill (A42, Northumberland, Saratoga County)

Putnam Brook (B5, Saratoga Springs, Saratoga County)

Geyser Brook crossing (B8, Saratoga Springs, Saratoga County)

Kayaderosseras Creek crossing (B10, Milton, Saratoga County)

Aplaus Kill (C33, Glenville, Schenectady County)

Poentic Kill (C58, Rotterdam, Schenectady County)

Norman Kill crossing (E74, Guilderland, Albany County)

Vly Creek (E30, New Scotland, Albany County)

Vloman Kill crossing (E45-2, New Scotland, Albany County)