

**Stream S164a, Ephemeral
UNT to Bloomster Hollow**
Crossing Type: Temporary Bridge
Permit: PADEP Waived

Wetland W006, PEM
HUC12: 050100010103
Coordinates: 41.7243, -78.4869
Permanent Impact: 0.019 acres
Temporary Impact: 0.004 acres
Crossing Type: Open Cut
Permit: Individual

Wetland W004, PSS, EV
HUC12: 050100010103
Coordinates: 41.7233, -78.4883
Permanent Impact: 0.512 acres
Temporary Impact: 0.292 acres
Crossing Type: Open Cut
Permit: Individual

**Stream S005, Intermittent
Bloomster Hollow**
Chapter 93: CWF
PAFBC: TNR, Drains to ATW, STS
Coordinates: 41.7230, -78.4890
Stream Impact: 815ft²
Permanent Floodway Impact: 0.249 acres
Temporary Floodway Impact: 0.119 acres
Crossing Type: Dry Crossing
Permit: GP-5/8

Wetland W004, PFO, EV
HUC12: 050100010103
Coordinates: 41.7228, -78.4895
Permanent Impact: 0.268 acres
Temporary Impact: 0.146 acres
Crossing Type: Open Cut
Permit: Individual

**Stream S163a, Ephemeral
UNT to Bloomster Hollow**
Crossing Type: Temporary Bridge
Permit: PADEP Waived



Legend			
Mileposts	Temporary Access Road	Dry Ditch	PEM Wetland
Proposed Centerline	HDD Path	Ephemeral	PFO Wetland
Permanent ROW	Main Line Valve	Intermittent	PSS Wetland
Temporary ROW	Clermont Interconnect	Perennial	Elevation Contours
ATWS	Contractor Yard	PA 50-ft Floodway	Foreign Utilities
Permanent Access Road	Pipe Yard	Other Waters	Sheet Boundary

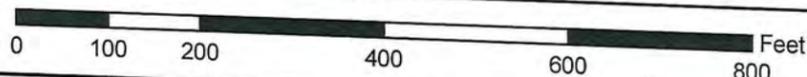
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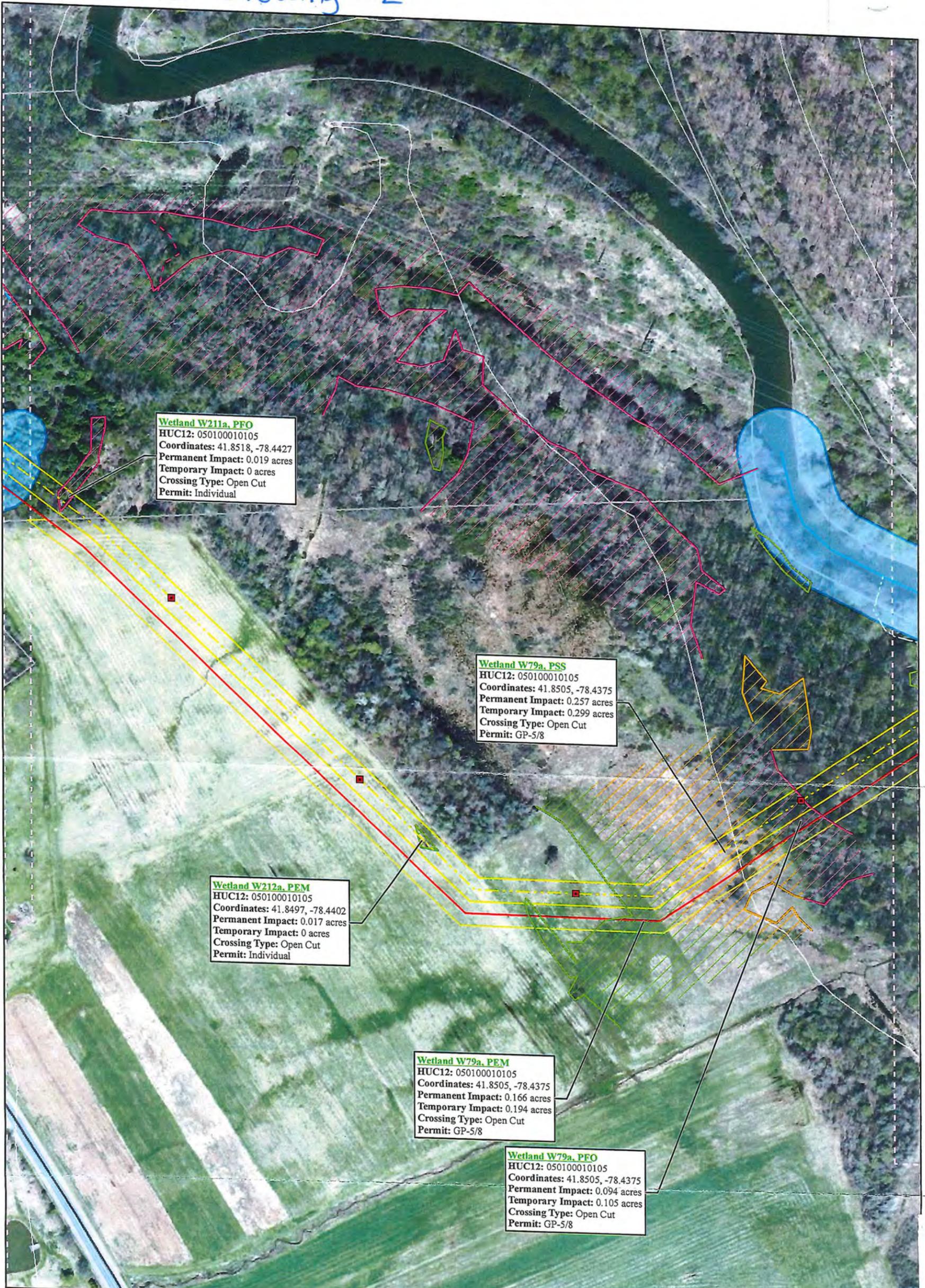
Prepared By: TETRA TECH
Prepared For: National Fuel

Date: 01/2016
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Orthoimagery basemap from ArcGIS Online Services, available at: <http://services.arcgisonline.com/arcgis/services>. Aquatic Resources, Tetra Tech; 2014-2015.

Figure 1. Site Plans of Aquatic Resource Impacts for the Proposed Northern Access 2016 Project, McKean County, Pennsylvania.





Wetland W211a, PFO
 HUC12: 050100010105
 Coordinates: 41.8518, -78.4427
 Permanent Impact: 0.019 acres
 Temporary Impact: 0 acres
 Crossing Type: Open Cut
 Permit: Individual

Wetland W79a, PSS
 HUC12: 050100010105
 Coordinates: 41.8505, -78.4375
 Permanent Impact: 0.257 acres
 Temporary Impact: 0.299 acres
 Crossing Type: Open Cut
 Permit: GP-5/8

Wetland W212a, PEM
 HUC12: 050100010105
 Coordinates: 41.8497, -78.4402
 Permanent Impact: 0.017 acres
 Temporary Impact: 0 acres
 Crossing Type: Open Cut
 Permit: Individual

Wetland W79a, PEM
 HUC12: 050100010105
 Coordinates: 41.8505, -78.4375
 Permanent Impact: 0.166 acres
 Temporary Impact: 0.194 acres
 Crossing Type: Open Cut
 Permit: GP-5/8

Wetland W79a, PFO
 HUC12: 050100010105
 Coordinates: 41.8505, -78.4375
 Permanent Impact: 0.094 acres
 Temporary Impact: 0.105 acres
 Crossing Type: Open Cut
 Permit: GP-5/8



Legend			
■ Mileposts	— Temporary Access Road	— Dry Ditch	◊ PEM Wetland
— Proposed Centerline	— HDD Path	— Ephemeral	◊ PFO Wetland
— Permanent ROW	— Main Line Valve	— Intermittent	◊ PSS Wetland
— Temporary ROW	— Clermont Interconnect	— Perennial	— Elevation Contours
— ATWS	— Contractor Yard	— PA 50-ft Floodway	— Foreign Utilities
— Permanent Access Road	— Pipe Yard	— Other Waters	— Sheet Boundary

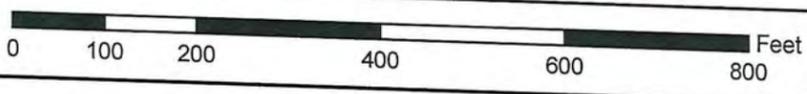
Scale = 1:2,400 1 inch = 200 feet



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Figure 1. Site Plans of Aquatic Resource Impacts for the Proposed Northern Access 2016 Project, McKean County, Pennsylvania.



Orthoimagery basemap from ArcGIS Online Services, available at: <http://services.arcgis.com/arcgis/services/AquaticResources>, Tetra Tech; 2014-2015.



Legend			
Mileposts	Temporary Access Road	Dry Ditch	PEM Wetland
Proposed Centerline	HDD Path	Ephemeral	PFO Wetland
Permanent ROW	Main Line Valve	Intermittent	PSS Wetland
Temporary ROW	Clermont Interconnect	Perennial	Elevation Contours
ATWS	Contractor Yard	PA 50-ft Floodway	Foreign Utilities
Permanent Access Road	Pipe Yard	Other Waters	Sheet Boundary

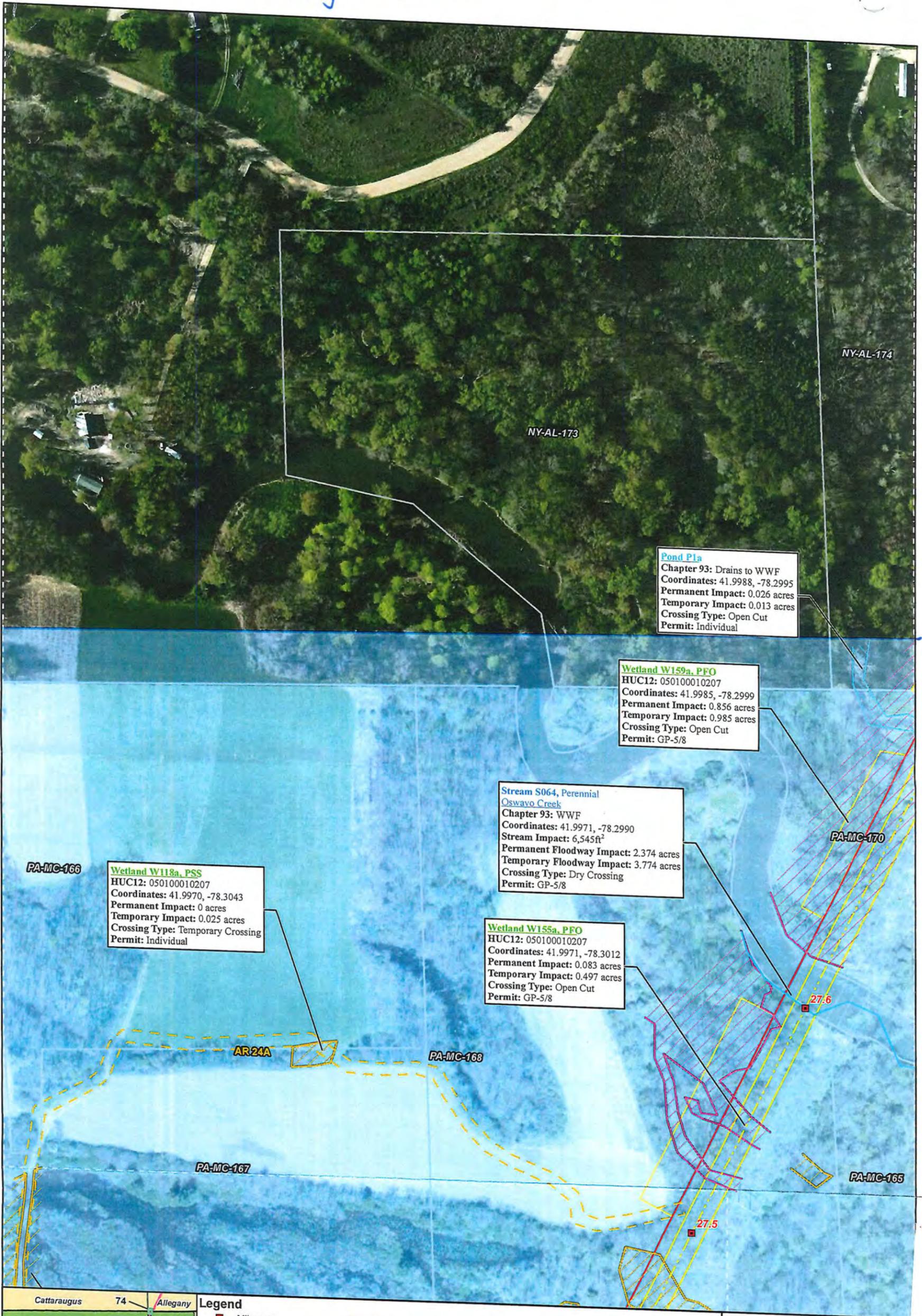
Scale = 1:2,400
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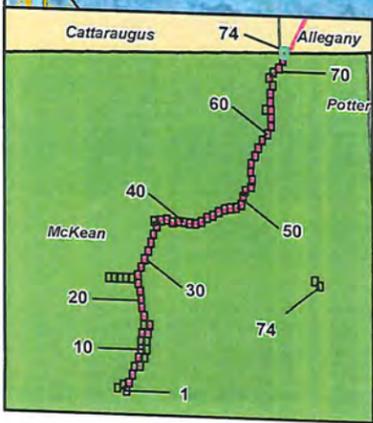
Figure 1. Site Plans of Aquatic Resource Impacts for the Proposed Northern Access 2016 Project, McKean County, Pennsylvania.

Orthoimagery basemap from ArcGIS Online Services, available at: <http://services.arcgisonline.com/arcgis/services/AquaticResources>; Tetra Tech; 2014-2015.



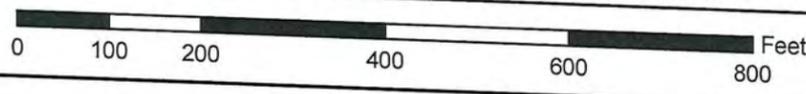
New York State

Pennsylvania



Legend			
	Mileposts		Dry Ditch
	Proposed Centerline		PEM Wetland
	Permanent ROW		PFO Wetland
	Temporary ROW		PSS Wetland
	ATWS		Elevation Contours
	Permanent Access Road		Foreign Utilities
	Temporary Access Road		Sheet Boundary
	HDD Path		Other Waters
	Main Line Valve		
	Clermont Interconnect		
	Contractor Yard		
	Pipe Yard		

Figure 1. Site Plans of Aquatic Resource Impacts for the Proposed Northern Access 2016 Project, McKean County, Pennsylvania.



Scale = 1:2,400 1 inch = 200 feet

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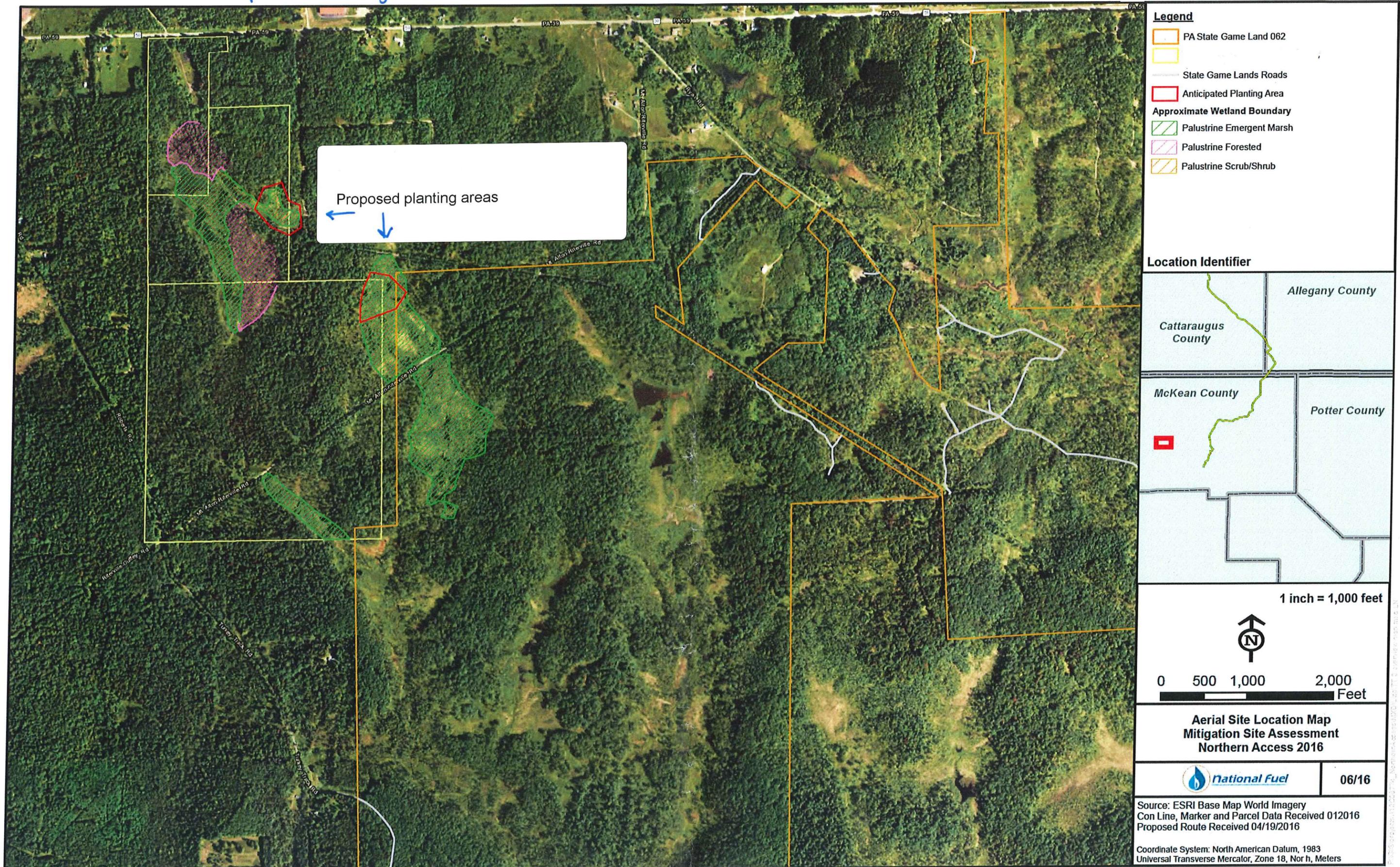
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Orthoimagery basemap from ArcGIS Online Services, available at: <http://services.arcgisonline.com/arcgis/services/AquaticResources>, Tetra Tech; 2014-2015.

2014-473 Proposed Mitigation Location

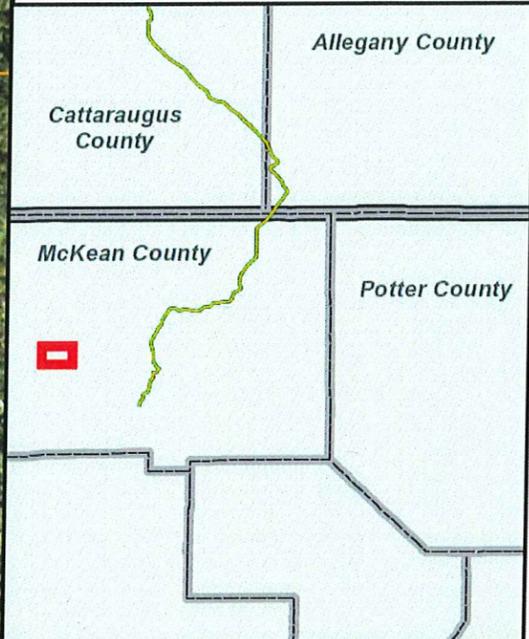


Proposed planting areas
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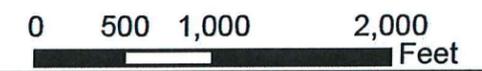
Legend

- PA State Game Land 062
- State Game Lands Roads
- Anticipated Planting Area
- Approximate Wetland Boundary**
- Palustrine Emergent Marsh
- Palustrine Forested
- Palustrine Scrub/Shrub

Location Identifier



1 inch = 1,000 feet



**Aerial Site Location Map
 Mitigation Site Assessment
 Northern Access 2016**



06/16

Source: ESRI Base Map World Imagery
 Con Line, Marker and Parcel Data Received 012016
 Proposed Route Received 04/19/2016

Coordinate System: North American Datum, 1983
 Universal Transverse Mercator, Zone 18, North, Meters