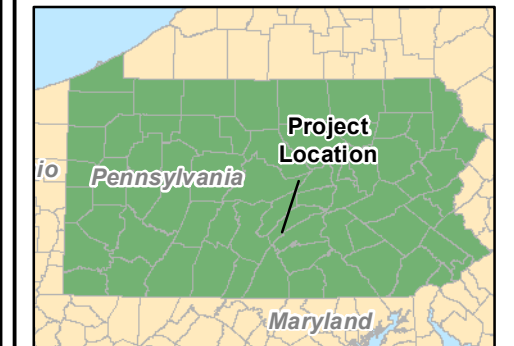
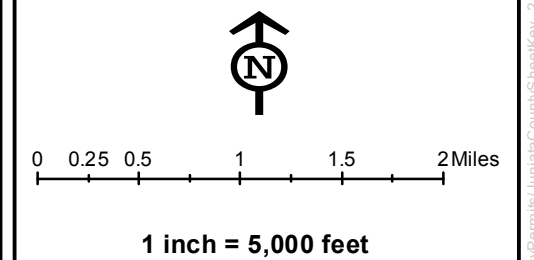


- Legend**
- Sheet Boundary
  - Municipal Boundary
  - PPP 1
  - PPP 2
  - Roads
  - County Boundary



**Mapset Legend**

- |   |  |                                  |                           |                    |
|---|--|----------------------------------|---------------------------|--------------------|
| Sheet Boundary                              | Permanent ROW                                | ME1 12" Pipeline                 | Existing Water Line       | PEM Extension      |
| Site Specific Drawing                       | Temporary ROW                                | 12" ME1 Permanent ROW            | Stream Photo              | PFO Extension      |
| PPP 1                                       | ATWS   | 8" Centerline                    | PEM Photo                 | PSS Extension      |
| PPP 2                                       | Permanent Access Road                        | 8" Pipeline Maintenance Corridor | PFO Photo                 | PEM Wetland        |
| PPP 1, Bore                                 | Temporary Access Road                        | Existing Buried Cable            | PSS Photo                 | PFO Wetland        |
| PPP 1, HDD                                  | ROW - Travel LOD (Travel Lane)               | Existing Electric Line           | Ephemeral Stream          | PSS Wetland        |
| PPP 2, Bore                                 | ROW - Travel and Clearing LOD (Clearing LOD) | Existing Fiberoptic Cable        | Intermittent Stream       | Pond               |
| PPP 2, HDD                                  | Station LOD                                  | Existing Gas Line                | Perennial Stream          | Municipal Boundary |
| Pullback String                             | Hay Bale Discharge (See E&S Plan, Att 12)    | Existing Phone Line              | Chapter 105 Floodway      | Parcels            |
| Bore Pits                                   | Direct Discharge (See E&S Plan, Att 12)      | Existing Sanitary Sewer          | Waived Ch. 105 Floodway   | Contours           |
| Existing Block Valve                        | Water Source (See E&S Plan, Att 12)          | Existing Septic System           | Ch. 106 Floodplain Fringe | Roads              |
| New Block Valve                             |  | Existing Storm Sewer             |                           |                    |
| Block Valve Setting LOD                     |  | Existing TV Line                 |                           |                    |
| Permanent Easement (no surface disturbance) |  | Existing Utility (unknown)       |                           |                    |



**Site Plan Sheet Key for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA.**  
Sheet 1 of 1

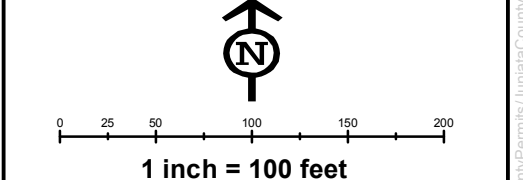
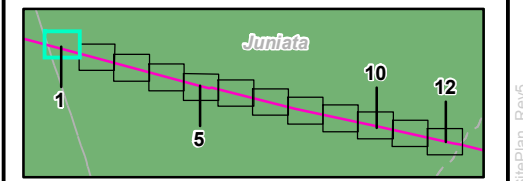
**Prepared By:** **TETRA TECH** **Date:** 11/2016

Base Map: ESRI ArcGIS Online, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA National Flood Hazard Layer, downloaded 10/2015.  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
  - ROW-Travel and Clearing LOD
  - Existing Block Valve
  - New Block Valve
  - Block Valve Setting LOD
  - Station LOD
  - Bore Pits
  - PEM Wetland
  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe



**Site Plan for the Sunoco  
Pennsylvania Pipeline Project,  
Juniata County, PA.  
Sheet 1 of 12**

<b>Prepared By:</b> TETRA TECH	<b>Date:</b> 11/2016
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Legend**

- Sheet Boundary
- PPP 1
- PPP 2
- PPP 1, Bore
- PPP 1, HDD
- PPP 2, Bore
- PPP 2, HDD
- Pullback String
- Permanent Easement (no surface disturbance)
- Permanent ROW
- Temporary ROW
- ATWS
- Permanent Access Road
- Temporary Access Road
- ROW-Travel LOD
- ROW-Travel and Clearing LOD
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- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Chapter 105 Floodway
- Waived Floodway
- Ch. 106 Floodplain Fringe

**1 inch = 100 feet**

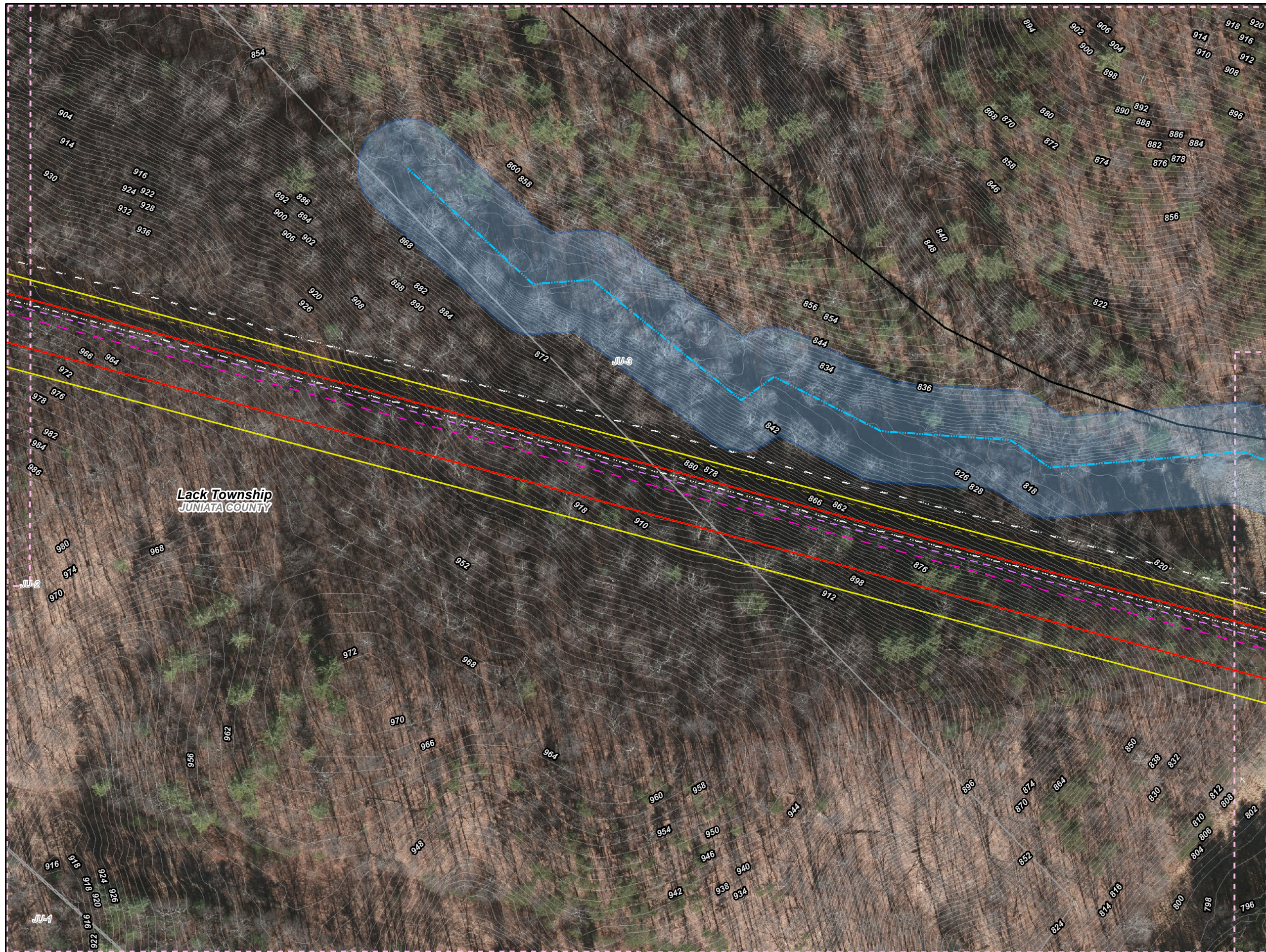
**Site Plan for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA.**  
Sheet 2 of 12

Prepared By: <b>TETRA TECH</b>	Date: <b>11/2016</b>
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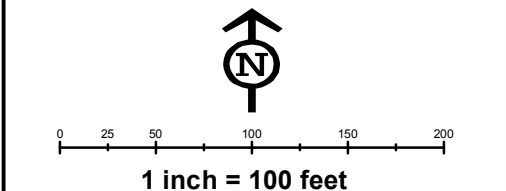
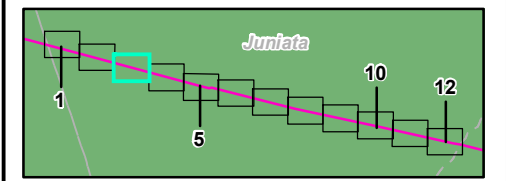
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Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
  - ROW-Travel and Clearing LOD
  - Existing Block Valve
  - New Block Valve
  - Block Valve Setting LOD
  - Station LOD
  - Bore Pits
  - PEM Wetland
  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

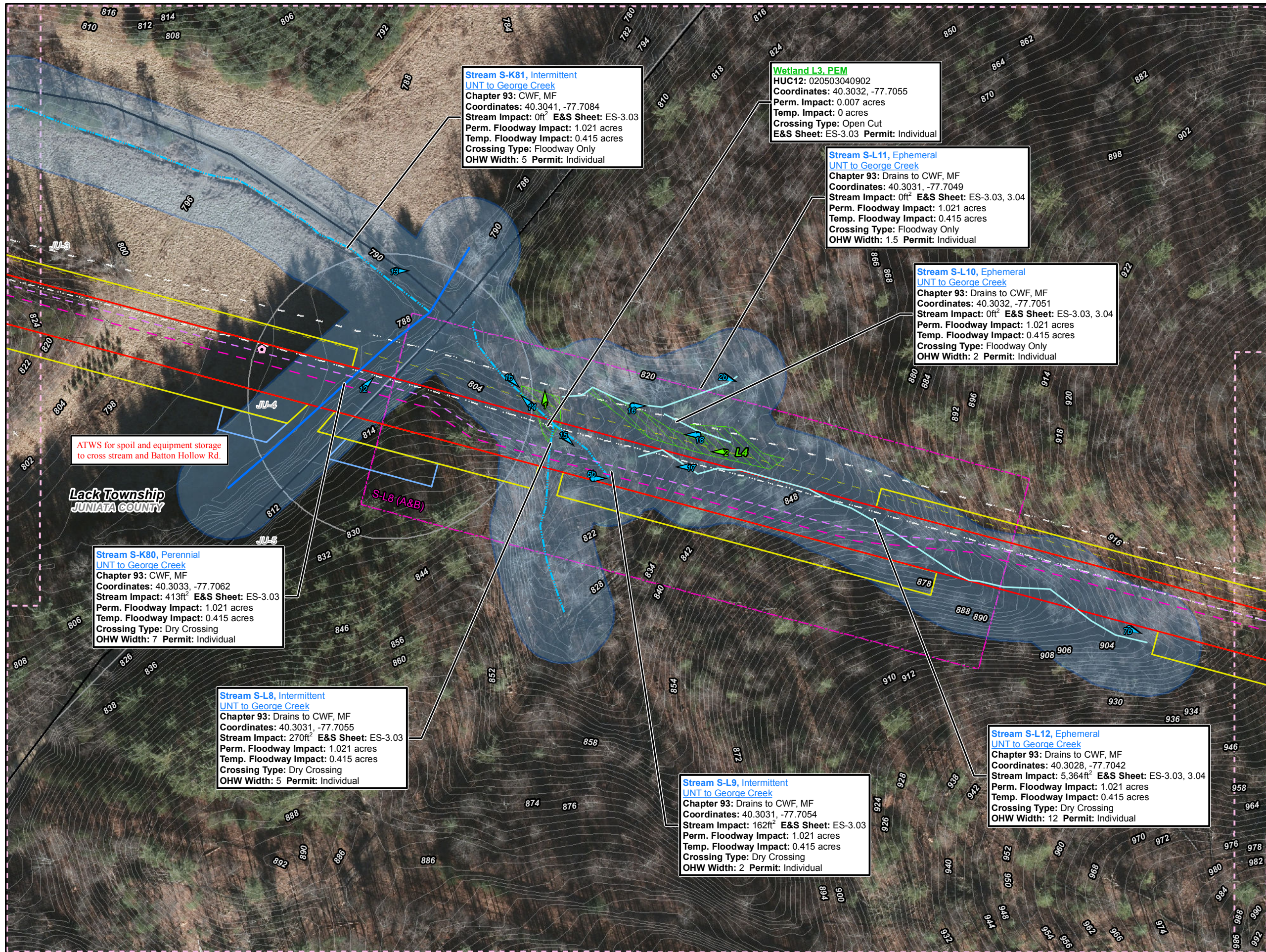


**Site Plan for the Sunoco  
Pennsylvania Pipeline Project,  
Juniata County, PA.  
Sheet 3 of 12**

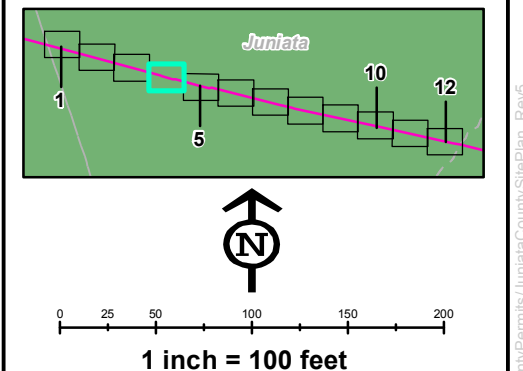
Prepared By: <b>TETRA TECH</b>	Date: <b>11/2016</b>
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- ### Legend
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
  - ROW-Travel and Clearing LOD
  - Existing Block Valve
  - New Block Valve
  - Block Valve Setting LOD
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  - PEM Wetland
  - PFO Wetland
  - PSS Wetland
  - Pond
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  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

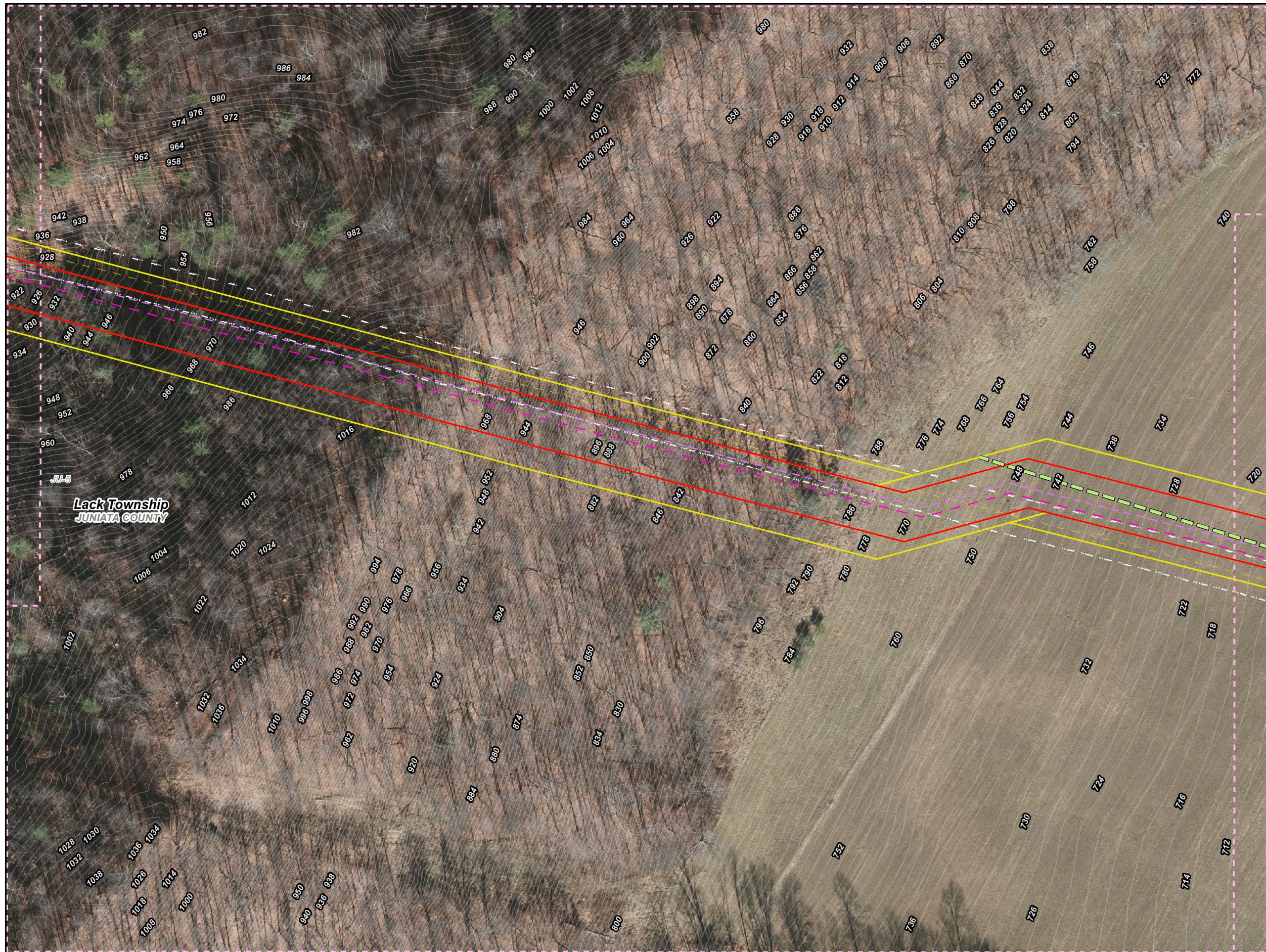


**Site Plan for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA.**  
 Sheet 4 of 12

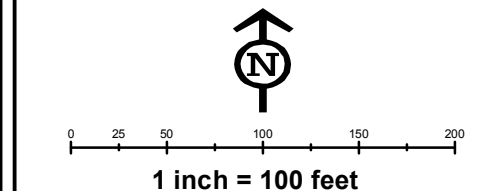
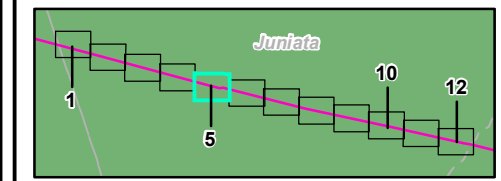
Prepared By: **TETRA TECH** Date: **11/2016**

Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
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  - Station LOD
  - Bore Pits
  - PEM Wetland
  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

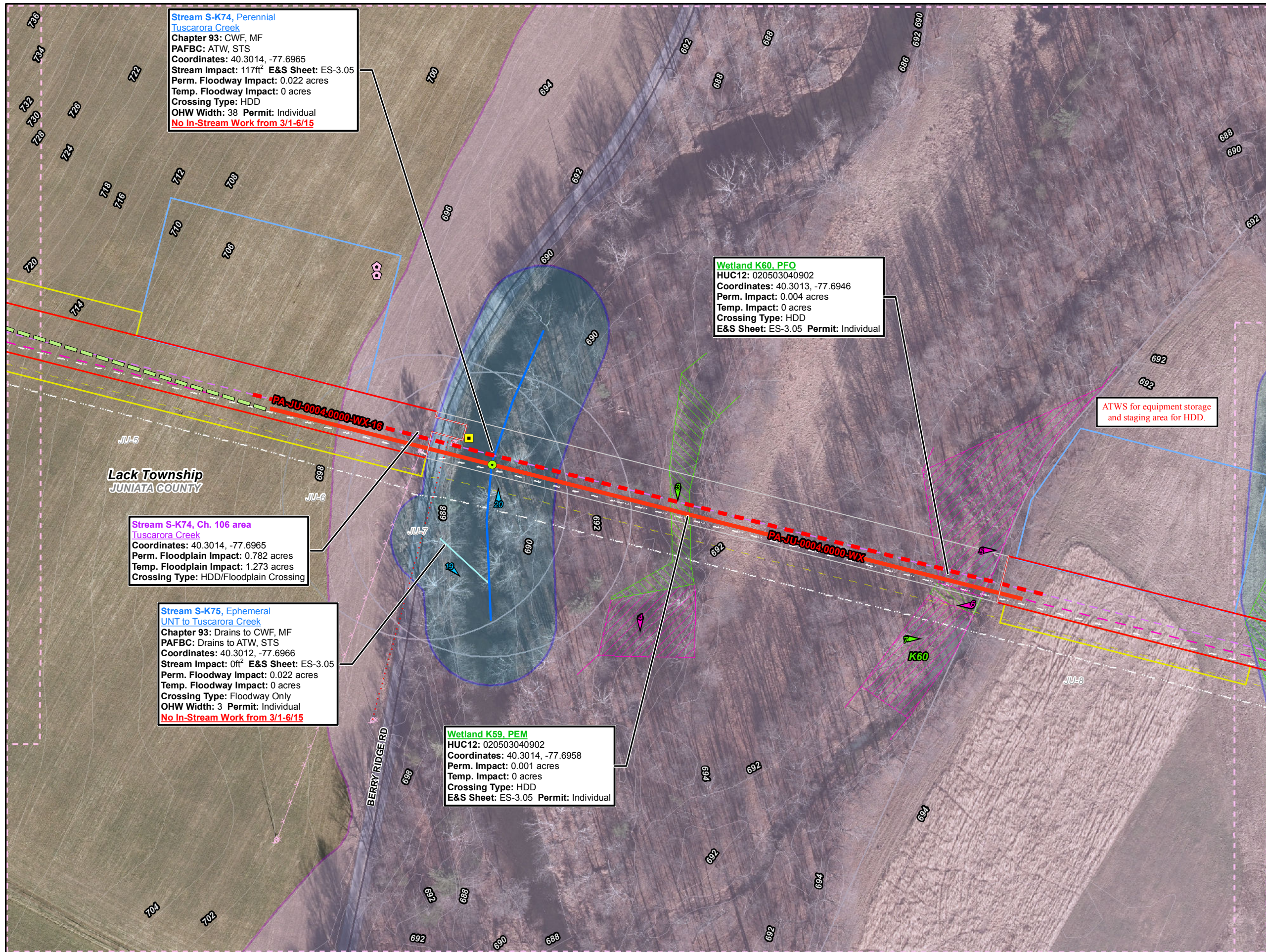


**Site Plan for the Sunoco  
Pennsylvania Pipeline Project,  
Juniata County, PA.  
Sheet 5 of 12**

Prepared By: <b>TETRA TECH</b>	Date: <b>11/2016</b>
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Stream S-K74, Perennial  
Tuscarora Creek**  
Chapter 93: CWF, MF  
PAFBC: ATW, STS  
Coordinates: 40.3014, -77.6965  
Stream Impact: 117ft<sup>2</sup> E&S Sheet: ES-3.05  
Perm. Floodway Impact: 0.022 acres  
Temp. Floodway Impact: 0 acres  
Crossing Type: HDD  
OHW Width: 38 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Wetland K60, PFO**  
HUC12: 020503040902  
Coordinates: 40.3013, -77.6946  
Perm. Impact: 0.004 acres  
Temp. Impact: 0 acres  
Crossing Type: HDD  
E&S Sheet: ES-3.05 Permit: Individual

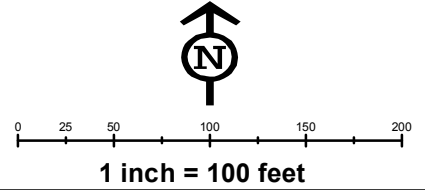
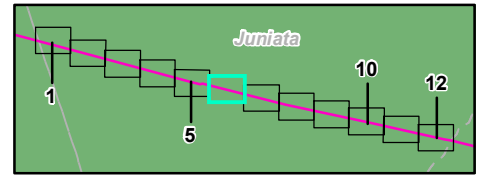
**Stream S-K74, Ch. 106 area  
Tuscarora Creek**  
Coordinates: 40.3014, -77.6965  
Perm. Floodplain Impact: 0.782 acres  
Temp. Floodplain Impact: 1.273 acres  
Crossing Type: HDD/Floodplain Crossing

**Stream S-K75, Ephemeral  
UNT to Tuscarora Creek**  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.3012, -77.6966  
Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-3.05  
Perm. Floodway Impact: 0.022 acres  
Temp. Floodway Impact: 0 acres  
Crossing Type: Floodway Only  
OHW Width: 3 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Wetland K59, PEM**  
HUC12: 020503040902  
Coordinates: 40.3014, -77.6958  
Perm. Impact: 0.001 acres  
Temp. Impact: 0 acres  
Crossing Type: HDD  
E&S Sheet: ES-3.05 Permit: Individual

- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
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  - Existing Block Valve
  - New Block Valve
  - Block Valve Setting LOD
  - Station LOD
  - Bore Pits
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  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

ATWS for equipment storage and staging area for HDD.

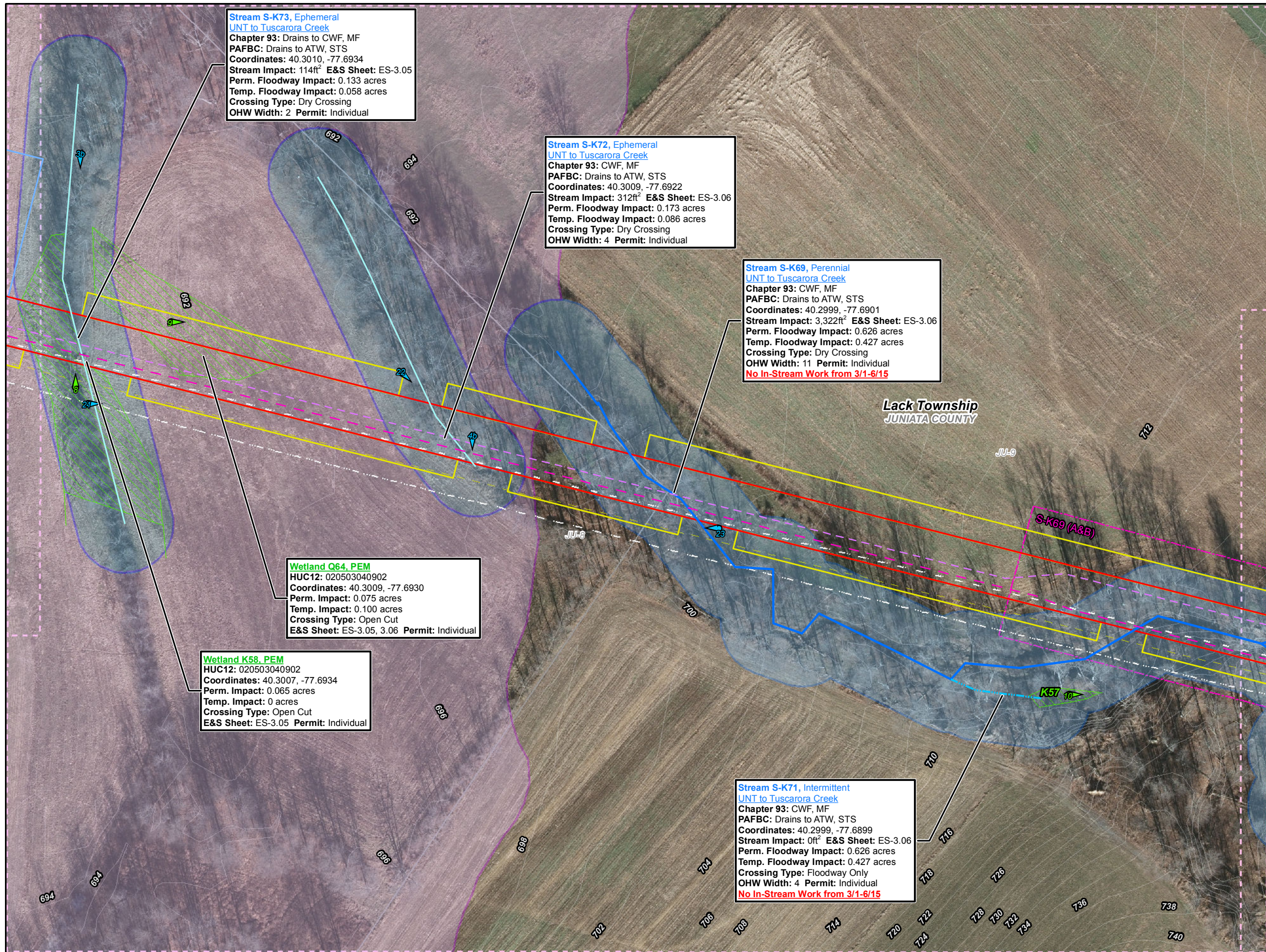


**Site Plan for the Sunoco  
Pennsylvania Pipeline Project,  
Juniata County, PA.  
Sheet 6 of 12**

Prepared By: **TETRA TECH** Date: **11/2016**

Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Stream S-K73, Ephemeral**  
 UNT to Tuscarora Creek  
 Chapter 93: Drains to CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.3010, -77.6934  
 Stream Impact: 114ft<sup>2</sup> E&S Sheet: ES-3.05  
 Perm. Floodway Impact: 0.133 acres  
 Temp. Floodway Impact: 0.058 acres  
 Crossing Type: Dry Crossing  
 OHW Width: 2 Permit: Individual

**Stream S-K72, Ephemeral**  
 UNT to Tuscarora Creek  
 Chapter 93: CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.3009, -77.6922  
 Stream Impact: 312ft<sup>2</sup> E&S Sheet: ES-3.06  
 Perm. Floodway Impact: 0.173 acres  
 Temp. Floodway Impact: 0.086 acres  
 Crossing Type: Dry Crossing  
 OHW Width: 4 Permit: Individual

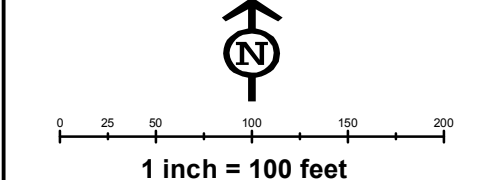
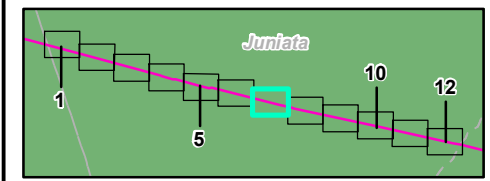
**Stream S-K69, Perennial**  
 UNT to Tuscarora Creek  
 Chapter 93: CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2999, -77.6901  
 Stream Impact: 3,322ft<sup>2</sup> E&S Sheet: ES-3.06  
 Perm. Floodway Impact: 0.626 acres  
 Temp. Floodway Impact: 0.427 acres  
 Crossing Type: Dry Crossing  
 OHW Width: 11 Permit: Individual  
 No In-Stream Work from 3/1-6/15

**Wetland Q64, PEM**  
 HUC12: 020503040902  
 Coordinates: 40.3009, -77.6930  
 Perm. Impact: 0.075 acres  
 Temp. Impact: 0.100 acres  
 Crossing Type: Open Cut  
 E&S Sheet: ES-3.05, 3.06 Permit: Individual

**Wetland K58, PEM**  
 HUC12: 020503040902  
 Coordinates: 40.3007, -77.6934  
 Perm. Impact: 0.065 acres  
 Temp. Impact: 0 acres  
 Crossing Type: Open Cut  
 E&S Sheet: ES-3.05 Permit: Individual

**Stream S-K71, Intermittent**  
 UNT to Tuscarora Creek  
 Chapter 93: CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2999, -77.6899  
 Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-3.06  
 Perm. Floodway Impact: 0.626 acres  
 Temp. Floodway Impact: 0.427 acres  
 Crossing Type: Floodway Only  
 OHW Width: 4 Permit: Individual  
 No In-Stream Work from 3/1-6/15

- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
  - ROW-Travel and Clearing LOD
  - Existing Block Valve
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  - Block Valve Setting LOD
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  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

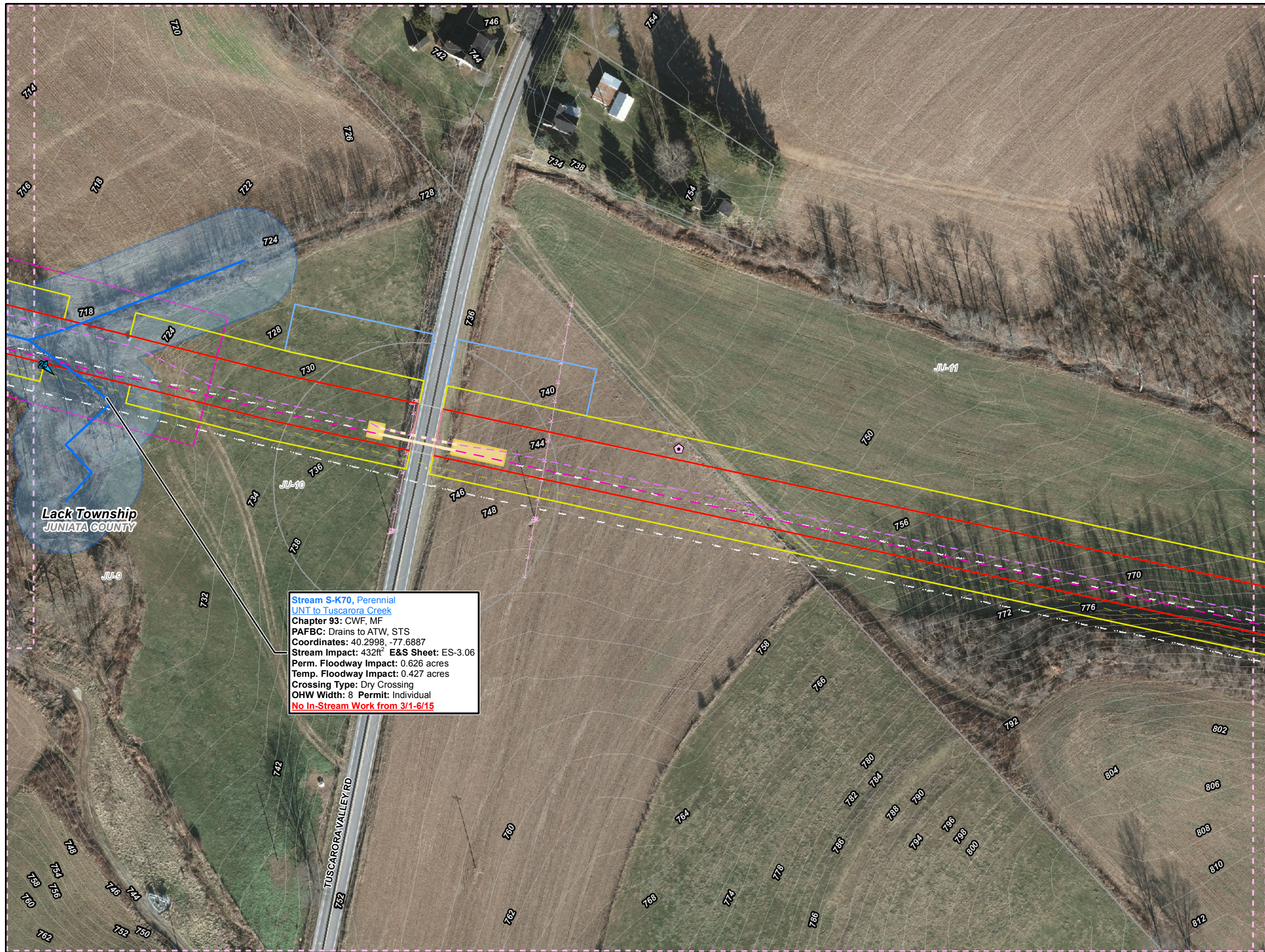


**Site Plan for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA.**  
 Sheet 7 of 12

Prepared By: **TETRA TECH** Date: **11/2016**

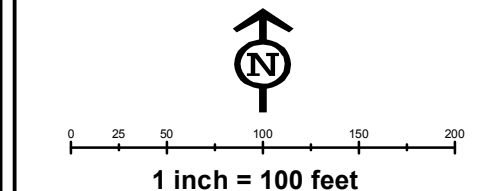
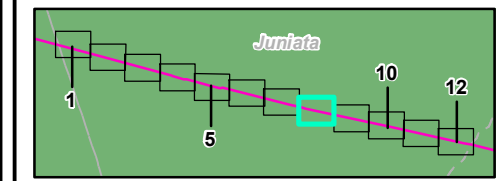
Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**Stream S-K70, Perennial**  
**UNT to Tuscarora Creek**  
 Chapter 93: CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2998, -77.6887  
 Stream Impact: 432ft<sup>2</sup> E&S Sheet: ES-3.06  
 Perm. Floodway Impact: 0.626 acres  
 Temp. Floodway Impact: 0.427 acres  
 Crossing Type: Dry Crossing  
 OHW Width: 8 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
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  - Block Valve Setting LOD
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  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

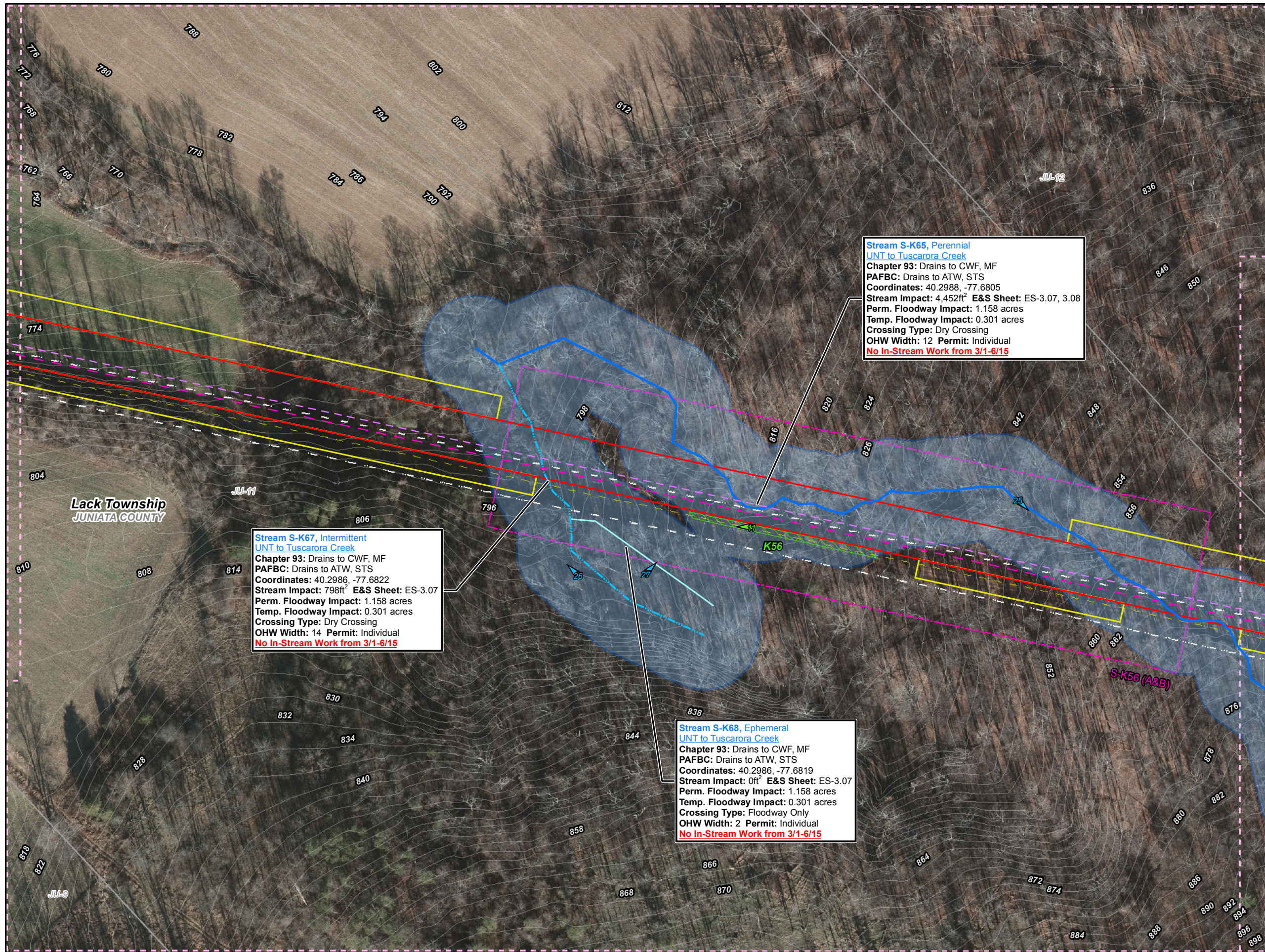


**Site Plan for the Sunoco**  
**Pennsylvania Pipeline Project,**  
**Juniata County, PA.**  
**Sheet 8 of 12**

Prepared By: 	Date: <b>11/2016</b>
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Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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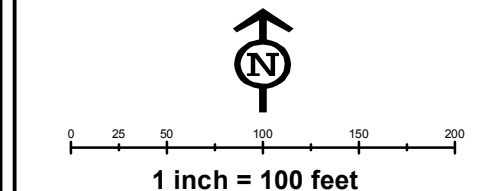
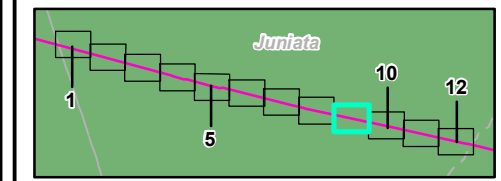


**Stream S-K65, Perennial**  
 UNT to Tuscarora Creek  
 Chapter 93: Drains to CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2988, -77.6805  
 Stream Impact: 4,452ft<sup>2</sup> E&S Sheet: ES-3.07, 3.08  
 Perm. Floodway Impact: 1.158 acres  
 Temp. Floodway Impact: 0.301 acres  
 Crossing Type: Dry Crossing  
 OHW Width: 12 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K67, Intermittent**  
 UNT to Tuscarora Creek  
 Chapter 93: Drains to CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2986, -77.6822  
 Stream Impact: 798ft<sup>2</sup> E&S Sheet: ES-3.07  
 Perm. Floodway Impact: 1.158 acres  
 Temp. Floodway Impact: 0.301 acres  
 Crossing Type: Dry Crossing  
 OHW Width: 14 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K68, Ephemeral**  
 UNT to Tuscarora Creek  
 Chapter 93: Drains to CWF, MF  
 PAFBC: Drains to ATW, STS  
 Coordinates: 40.2986, -77.6819  
 Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-3.07  
 Perm. Floodway Impact: 1.158 acres  
 Temp. Floodway Impact: 0.301 acres  
 Crossing Type: Floodway Only  
 OHW Width: 2 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
  - ATWS
  - Permanent Access Road
  - Temporary Access Road
  - ROW-Travel LOD
  - ROW-Travel and Clearing LOD
  - Existing Block Valve
  - New Block Valve
  - Block Valve Setting LOD
  - Station LOD
  - Bore Pits
  - PEM Wetland
  - PFO Wetland
  - PSS Wetland
  - Pond
  - Ephemeral Stream
  - Intermittent Stream
  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe



**Site Plan for the Sunoco  
 Pennsylvania Pipeline Project,  
 Juniata County, PA.  
 Sheet 9 of 12**

<b>Prepared By:</b> <b>TETRA TECH</b>	<b>Date:</b> <b>11/2016</b>
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Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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**TIMBER RATTLESNAKE AREA**  
See Conservation Plan for Requirements

**Stream S-K63, Ephemeral**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2983, -77.6783  
Stream Impact: 1,880ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 1.158 acres  
Temp. Floodway Impact: 0.301 acres  
Crossing Type: Dry Crossing  
OHW Width: 20 Permit: Individual

**Stream S-K61, Perennial**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2978, -77.6771  
Stream Impact: 308ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 0.636 acres  
Temp. Floodway Impact: 0.101 acres  
Crossing Type: Dry Crossing  
OHW Width: 4 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K59, Intermittent**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2977, -77.6764  
Stream Impact: 486ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 0.636 acres  
Temp. Floodway Impact: 0.101 acres  
Crossing Type: Dry Crossing  
OHW Width: 9 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K58, Perennial**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2980, -77.6761  
Stream Impact: 1,428ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 0.636 acres  
Temp. Floodway Impact: 0.101 acres  
Crossing Type: Dry Crossing  
OHW Width: 17 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K66, Perennial**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2980, -77.6794  
Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 1.158 acres  
Temp. Floodway Impact: 0.301 acres  
Crossing Type: Floodway Only  
OHW Width: 5 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

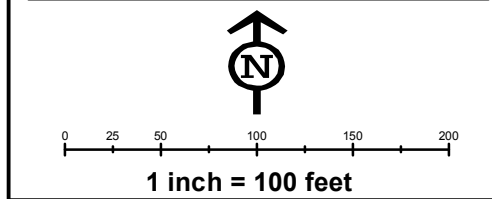
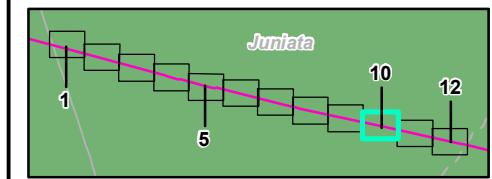
**Stream S-K64, Intermittent**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2979, -77.6783  
Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 1.158 acres  
Temp. Floodway Impact: 0.301 acres  
Crossing Type: Floodway Only  
OHW Width: 4 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K62, Ephemeral**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2980, -77.6773  
Stream Impact: 74ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 0.636 acres  
Temp. Floodway Impact: 0.101 acres  
Crossing Type: Dry Crossing  
OHW Width: 2 Permit: Individual

**Stream S-K60, Ephemeral**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2978, -77.6765  
Stream Impact: 0ft<sup>2</sup> E&S Sheet: ES-3.08  
Perm. Floodway Impact: 0.636 acres  
Temp. Floodway Impact: 0.101 acres  
Crossing Type: Floodway Only  
OHW Width: 2 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K57, Perennial**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2975, -77.6753  
Stream Impact: 376ft<sup>2</sup> E&S Sheet: ES-3.08, 3.09  
Perm. Floodway Impact: 0.636 acres  
Temp. Floodway Impact: 0.101 acres  
Crossing Type: Dry Crossing  
OHW Width: 4 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
  - Pullback String
  - Permanent Easement (no surface disturbance)
  - Permanent ROW
  - Temporary ROW
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  - Pond
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  - Perennial Stream
  - Chapter 105 Floodway
  - Waived Floodway
  - Ch. 106 Floodplain Fringe

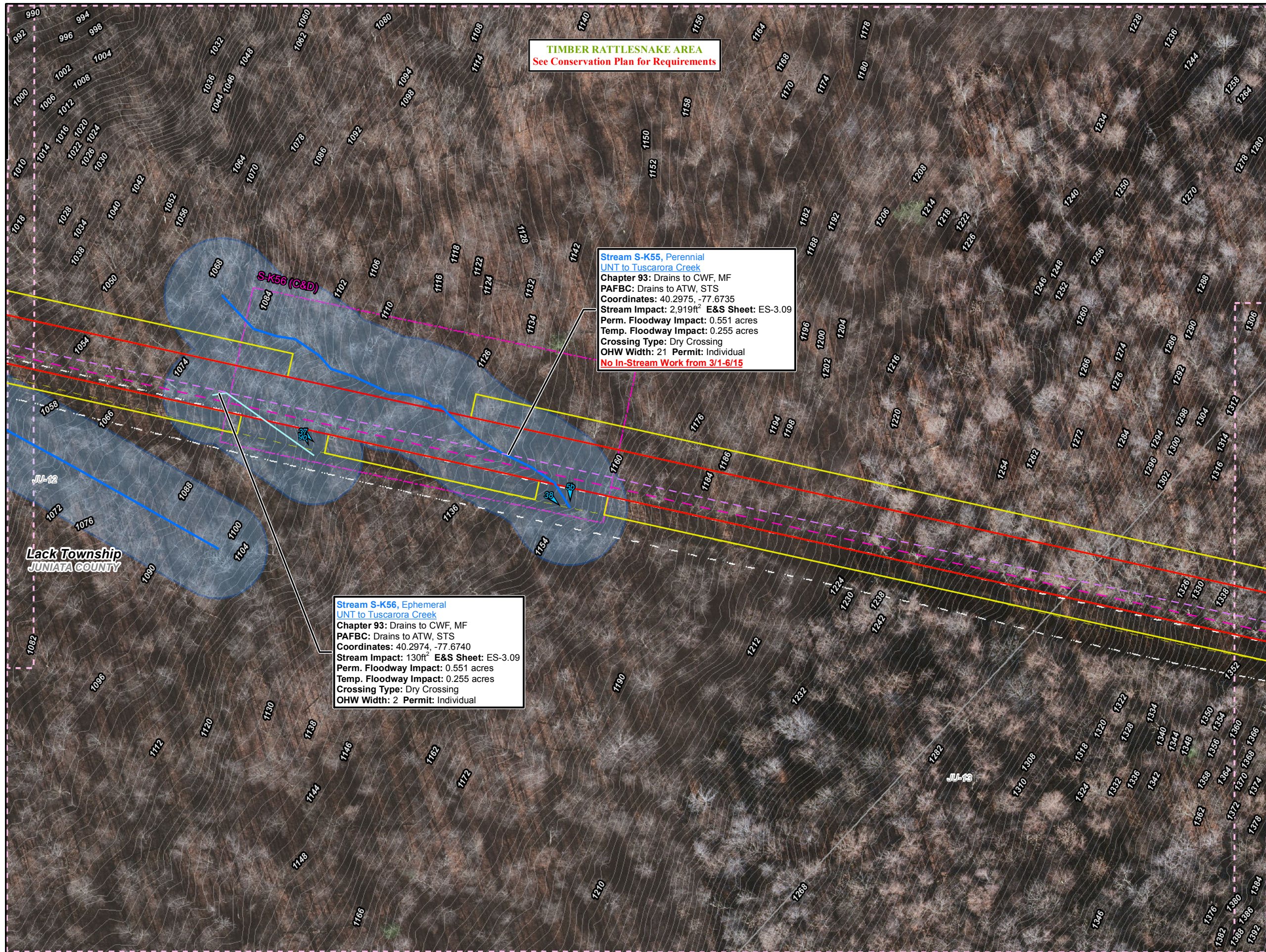


**Site Plan for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA. Sheet 10 of 12**

Prepared By: **TETRA TECH** Date: **11/2016**

Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.  
Coordinate System: NAD 83 Stateplane, PA South, Feet

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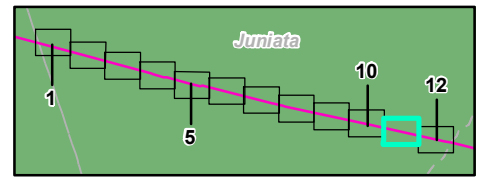


**TIMBER RATTLESNAKE AREA**  
See Conservation Plan for Requirements

**Stream S-K55, Perennial**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2975, -77.6735  
Stream Impact: 2,919ft<sup>2</sup> E&S Sheet: ES-3.09  
Perm. Floodway Impact: 0.551 acres  
Temp. Floodway Impact: 0.255 acres  
Crossing Type: Dry Crossing  
OHW Width: 21 Permit: Individual  
**No In-Stream Work from 3/1-6/15**

**Stream S-K56, Ephemeral**  
UNT to Tuscarora Creek  
Chapter 93: Drains to CWF, MF  
PAFBC: Drains to ATW, STS  
Coordinates: 40.2974, -77.6740  
Stream Impact: 130ft<sup>2</sup> E&S Sheet: ES-3.09  
Perm. Floodway Impact: 0.551 acres  
Temp. Floodway Impact: 0.255 acres  
Crossing Type: Dry Crossing  
OHW Width: 2 Permit: Individual

- Legend**
- Sheet Boundary
  - PPP 1
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0 25 50 100 150 200

1 inch = 100 feet

**Site Plan for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA.**  
Sheet 11 of 12

Prepared By:	Date:
TETRA TECH	11/2016

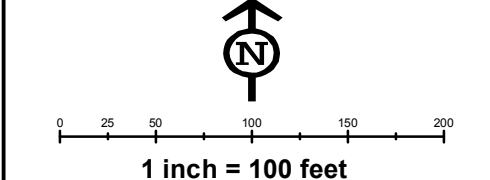
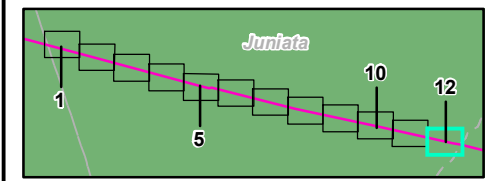
Base Map: SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.

Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
  - PPP 1
  - PPP 2
  - PPP 1, Bore
  - PPP 1, HDD
  - PPP 2, Bore
  - PPP 2, HDD
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**Site Plan for the Sunoco Pennsylvania Pipeline Project, Juniata County, PA.**  
Sheet 12 of 12

Prepared By: <b>TETRA TECH</b>	Date: <b>11/2016</b>
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Base Map; SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.

Coordinate System: NAD 83 Stateplane, PA South, Feet

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