

- 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

Stream S-184, Intermittent
 UNT to Conodoguinet Creek
 Chapter 93: WWF, MF
 Coordinates: 40.2458, -77.3850
 Stream Impact: 198ft² E&S Sheet: ES-4.15
 Perm. Floodway Impact: 0.154 acres
 Temp. Floodway Impact: 0.075 acres
 Crossing Type: Dry Crossing
 OHW Width: 3 Permit: Individual

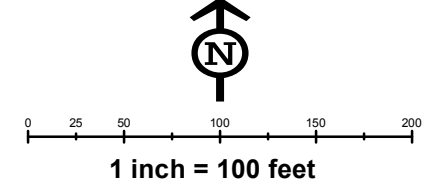
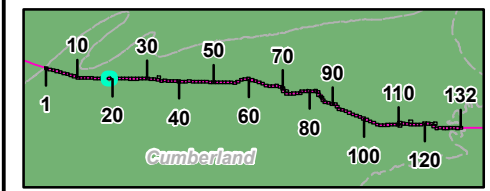
Wetland I60, PEM
 HUC12: 020503050308
 Coordinates: 40.2456, -77.3847
 Perm. Impact: 0.024 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.15 Permit: Individual

Wetland I61, PEM
 HUC12: 020503050308
 Coordinates: 40.2458, -77.3838
 Perm. Impact: 0.052 acres
 Temp. Impact: 0 acres
 Crossing Type: Bore/Temporary Matting
 E&S Sheet: ES-4.15 Permit: Individual

Stream S-185, Intermittent
 UNT to Conodoguinet Creek
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.2455, -77.3839
 Stream Impact: 264ft² E&S Sheet: ES-4.15
 Perm. Floodway Impact: 0.103 acres
 Temp. Floodway Impact: 0.138 acres
 Crossing Type: Temporary Bridge
 OHW Width: 12 Permit: Individual

Wetland I58, PEM
 HUC12: 020503050308
 Coordinates: 40.2455, -77.3855
 Perm. Impact: 0.002 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.15 Permit: Individual

ATWS for spoil and equipment storage to cross resources and bore N Mountain Road.

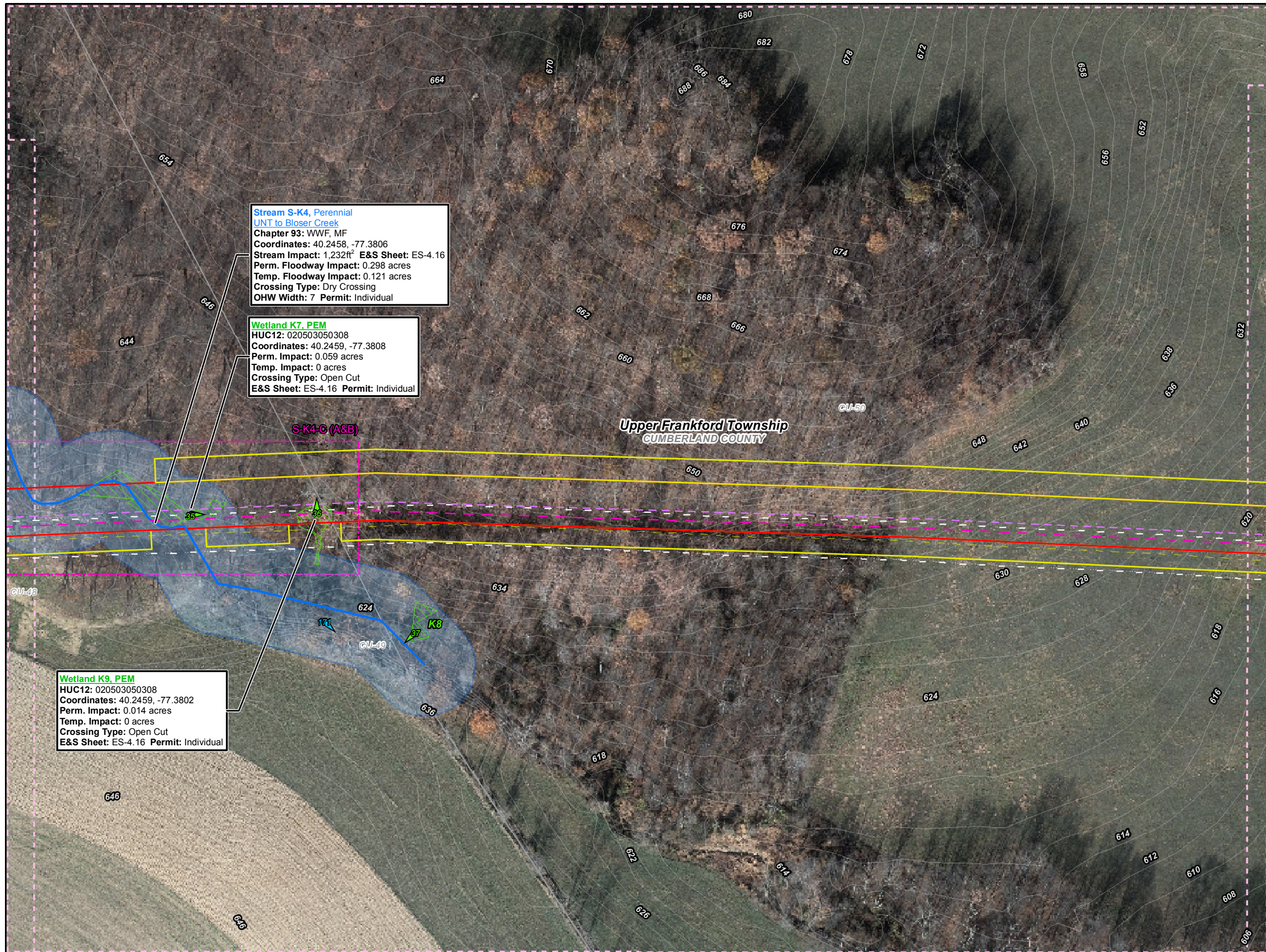


Site Plan for the Sunoco Pennsylvania Pipeline Project, Cumberland County, PA. Sheet 19 of 132

Prepared By: **TETRA TECH** Date: **02/2017**

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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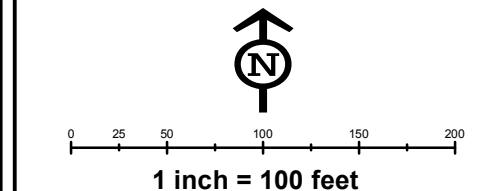
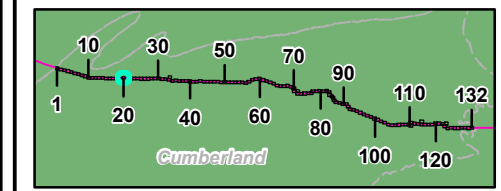
Stream S-K4, Perennial
 UNT to Blosser Creek
 Chapter 93: WWF, MF
 Coordinates: 40.2458, -77.3806
 Stream Impact: 1,232ft² E&S Sheet: ES-4.16
 Perm. Floodway Impact: 0.298 acres
 Temp. Floodway Impact: 0.121 acres
 Crossing Type: Dry Crossing
 OHW Width: 7 Permit: Individual

Wetland K7, PEM
 HUC12: 020503050308
 Coordinates: 40.2459, -77.3808
 Perm. Impact: 0.059 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.16 Permit: Individual

Wetland K9, PEM
 HUC12: 020503050308
 Coordinates: 40.2459, -77.3802
 Perm. Impact: 0.014 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.16 Permit: Individual

Legend

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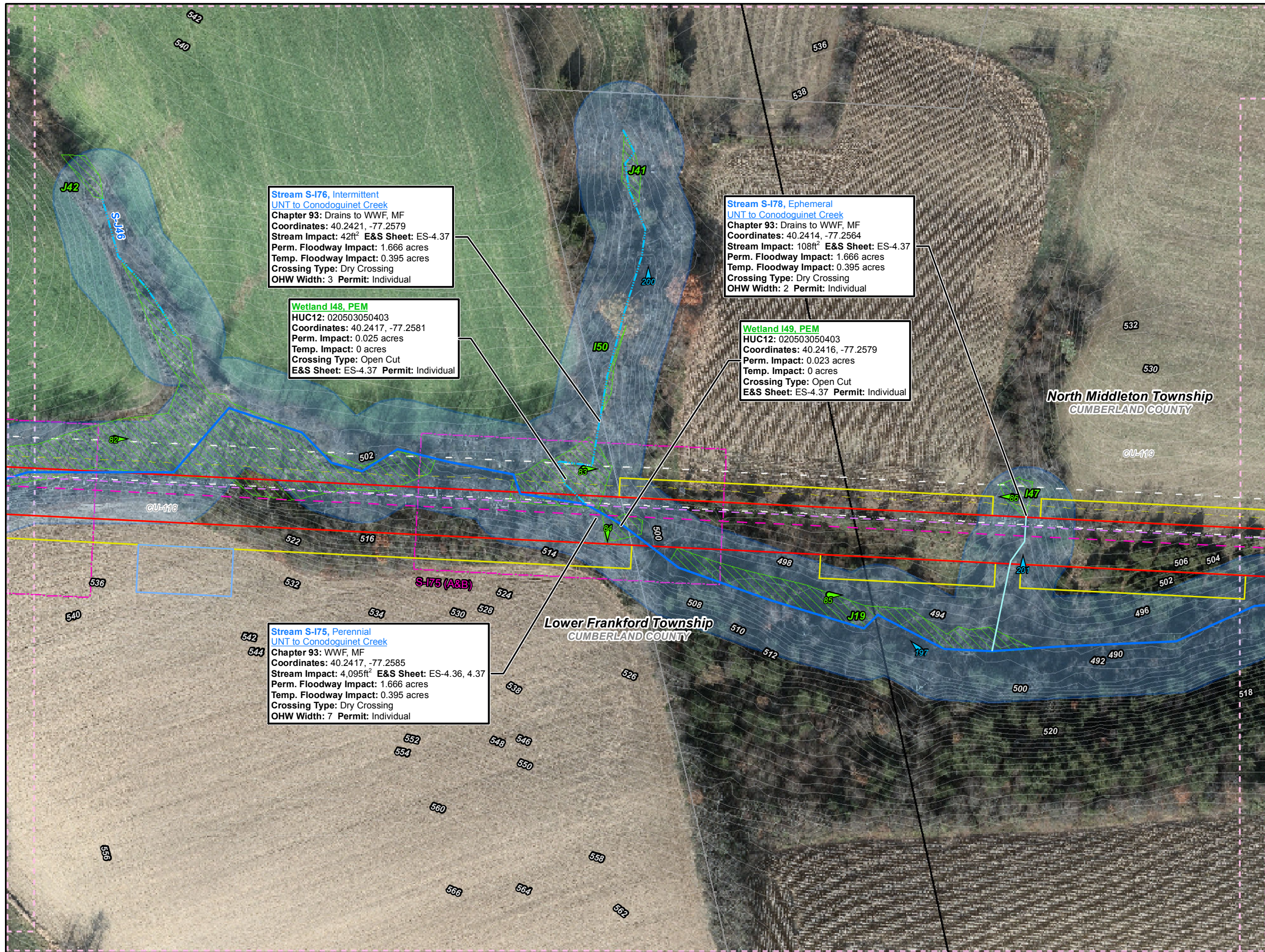


**Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 Cumberland County, PA.
 Sheet 20 of 132**

Prepared By: TETRA TECH	Date: 02/2017
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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-176, Intermittent
 UNT to Conodoguinet Creek
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.2421, -77.2579
 Stream Impact: 42ft² E&S Sheet: ES-4.37
 Perm. Floodway Impact: 1.666 acres
 Temp. Floodway Impact: 0.395 acres
 Crossing Type: Dry Crossing
 OHW Width: 3 Permit: Individual

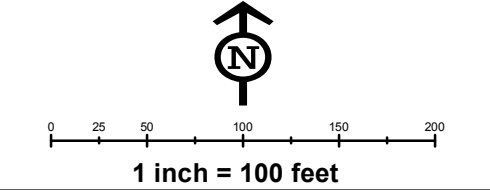
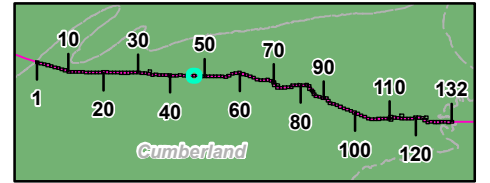
Wetland I48, PEM
 HUC12: 020503050403
 Coordinates: 40.2417, -77.2581
 Perm. Impact: 0.025 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.37 Permit: Individual

Stream S-178, Ephemeral
 UNT to Conodoguinet Creek
 Chapter 93: Drains to WWF, MF
 Coordinates: 40.2414, -77.2564
 Stream Impact: 108ft² E&S Sheet: ES-4.37
 Perm. Floodway Impact: 1.666 acres
 Temp. Floodway Impact: 0.395 acres
 Crossing Type: Dry Crossing
 OHW Width: 2 Permit: Individual

Wetland I49, PEM
 HUC12: 020503050403
 Coordinates: 40.2416, -77.2579
 Perm. Impact: 0.023 acres
 Temp. Impact: 0 acres
 Crossing Type: Open Cut
 E&S Sheet: ES-4.37 Permit: Individual

Stream S-175, Perennial
 UNT to Conodoguinet Creek
 Chapter 93: WWF, MF
 Coordinates: 40.2417, -77.2585
 Stream Impact: 4,095ft² E&S Sheet: ES-4.36, 4.37
 Perm. Floodway Impact: 1.666 acres
 Temp. Floodway Impact: 0.395 acres
 Crossing Type: Dry Crossing
 OHW Width: 7 Permit: Individual

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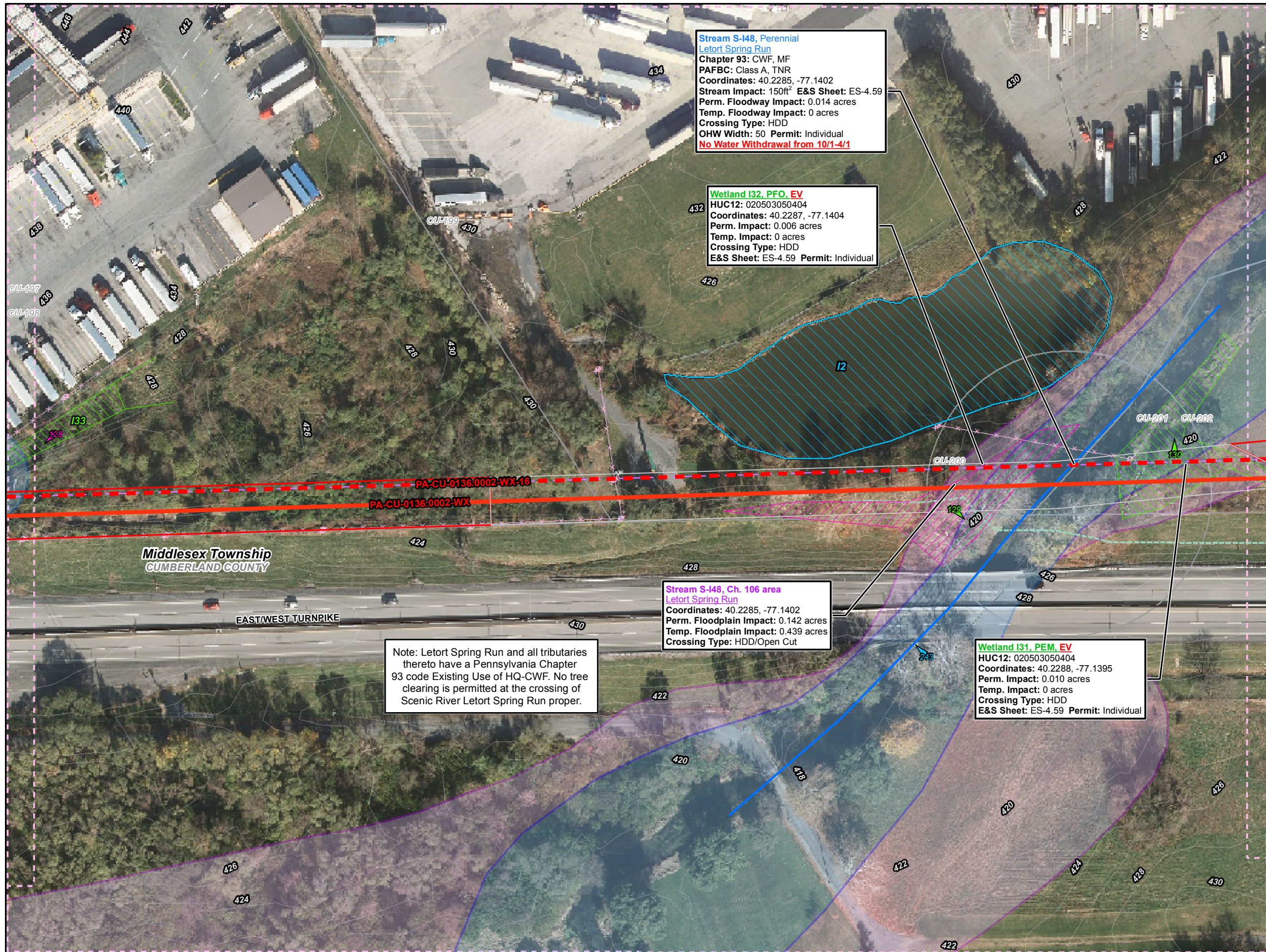


Site Plan for the Sunoco Pennsylvania Pipeline Project, Cumberland County, PA. Sheet 47 of 132

Prepared By: **TETRA TECH** Date: **02/2017**

Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
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Stream S-148, Perennial Letort Spring Run
 Chapter 93: CWF, MF
 PAFBC: Class A, TNR
 Coordinates: 40.2285, -77.1402
 Stream Impact: 150ft E&S Sheet: ES-4.59
 Perm. Floodway Impact: 0.014 acres
 Temp. Floodway Impact: 0 acres
 Crossing Type: HDD
 OHW Width: 50 Permit: Individual
No Water Withdrawal from 10/1-4/1

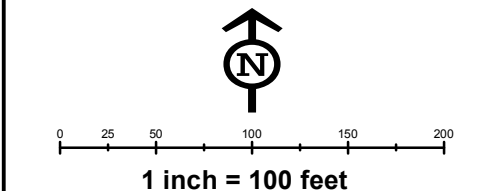
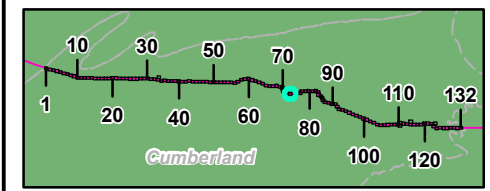
Wetland I32, PFO, EV
 HUC12: 020503050404
 Coordinates: 40.2287, -77.1404
 Perm. Impact: 0.006 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD
 E&S Sheet: ES-4.59 Permit: Individual

Stream S-148, Ch. 106 area Letort Spring Run
 Coordinates: 40.2285, -77.1402
 Perm. Floodplain Impact: 0.142 acres
 Temp. Floodplain Impact: 0.439 acres
 Crossing Type: HDD/Open Cut

Wetland I31, PEM, EV
 HUC12: 020503050404
 Coordinates: 40.2288, -77.1395
 Perm. Impact: 0.010 acres
 Temp. Impact: 0 acres
 Crossing Type: HDD
 E&S Sheet: ES-4.59 Permit: Individual

Note: Letort Spring Run and all tributaries thereto have a Pennsylvania Chapter 93 code Existing Use of HQ-CWF. No tree clearing is permitted at the crossing of Scenic River Letort Spring Run proper.

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Site Plan for the Sunoco Pennsylvania Pipeline Project, Cumberland County, PA. Sheet 74 of 132

Prepared By: **TETRA TECH** Date: **02/2017**

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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