Notes:
1. Data from the maximum result sampled 2019-2020.
2. For co-located wells completed at multiple depths, the highest value for the period was mapped.

Inset A

Inset B

See Inset A

See Inset B

TRUE
PLANT
20°

600 300 0 600 1,200 1,800 Feet

LEGEND

2020 TCE Plume Concentration Fields for Alternate Interpretation Using Maximum Concentrations

- 5 - 100 µg/L
- 100 - 1,000 µg/L
- 1,000 - 10,000 µg/L
- 10,000 - 100,000 µg/L
- ≥ 100,000 µg/L

2020 TCE Plume Concentration Fields (Figure C.1)

- 5 - 100 µg/L
- 100 - 1,000 µg/L
- 1,000 - 10,000 µg/L
- 10,000 - 100,000 µg/L
- ≥ 100,000 µg/L

Note: Contours defining plume cores are based on historical records

MW100 (1U) - Monitoring Well Identification and Sample Value (in µg/L)
1U = not detected at a reporting limit of 1 µg/L
J indicates detected at a value less than the reporting limit.
L indicates LCS or LCSD recovery outside of control limits

- Contours defining plume cores are based on historical records

- Lower RGA Well
- Middle RGA Well
- Upper RGA Well
- Multizone RGA Well
- Active Extraction Well
- Inactive Extraction Well
- Seep Monitoring Location
- DOE Property Boundary
- Roadways
- Streams
- 229 Boundary
- PGDP Boundary
- Water Policy Area

MAP SOURCE INFOMATION
Map Generation Date and Location - Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\MXD\Fig_A1_2020PlumesTCE_MAXR1.mxd, 6/3/2021
Monitoring Well Layer: Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\SHP\2019-2020_TCE-MAX.shp
2020 TCE Plume Concentration Fields: Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\SHP\TCE_100000.shp, TCE_10000-100000.shp, TCE_1000-10000.shp, TCE_100-1000.shp, TCE_5-100.shp
2020 Maximum TCE Plume Concentration Layer: Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\SHP\2020_TCE_MAX_All_Plumes.shp
Active Extraction Well, Inactive Extraction Well, Seep Monitoring Location, Water Policy Area, DOE Property Boundary, Roadways, Streams, 229 Boundary, and PGDP Boundary from PEGASIS; downloaded 3/16/2021

U.S. DEPARTMENT OF ENERGY
PORTSMOUTH / PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC

Figure A.1. 2020 TCE Plume–Regional Gravel Aquifer Alternate Interpretation Using Maximum Values