Interim Site Characterization Report

Public Comment Meeting

September 15, 2025



Agenda

- Welcome/Meeting Overview
- Interim Site Characterization Report Summary
 - Purpose & Objectives (Section 1)
 - Project Background (Section 2)
 - Characterization (Section 3)
 - Findings & Recommendations (Section 4)
 - Overview of Interim Remedial Progress (Section 5)
- Public Comment
- Conclusion



Meeting Overview

- Written public comments will be accepted through
 Oct. 17, 2025 and can be sent via email or in writing:
 - Email: uppermakefieldact2@energytransfer.com
 - Mail: SPLP, 525 Fritztown Road, Sinking Spring, PA 19608
- Please direct written comments to Attention: ISCR
 Public Comment



Verdantas Introduction



- Environmental consultants specializing in environmental assessment & remediation
- Neil Ketchum: 25+ years of broad technical and management experience in environmental site assessments, soil and groundwater contamination investigations, soil and groundwater remediation, and post-remediation/post-closure maintenance and monitoring
- Appointed to PADEP Cleanup Standards Scientific Advisory Board
 - Involved on subcommittees and working groups for the development of guidance for Act 2 regulations and Land Recycling Program Technical Guidance Manual



Investigation & Remediation Update

Completed and Ongoing

- Ongoing water testing
- Supplying bottled water
- Installation of POET systems
- Daily reporting to DEP
- Performing site characterization activities (e.g., ground penetrating radar; downhole geophysics; electric resistivity imaging; passive soil gas sampling; indoor air sampling; sub-slab soil gas sampling; packer testing; recovery well installation; monitoring well installation)
- Performing interim remedial activities (e.g., soil excavation; LNAPL removal)
- Submitted and implemented Public Involvement Plan
- Submitted Interim Remedial Action Plan
- Submitted Remedial Action Progress Reports
- Submitted Vapor Intrusion Investigation Progress Report
- Submitted Site Characterization Work Plan
- Submitted Interim Site Characterization Report

Future

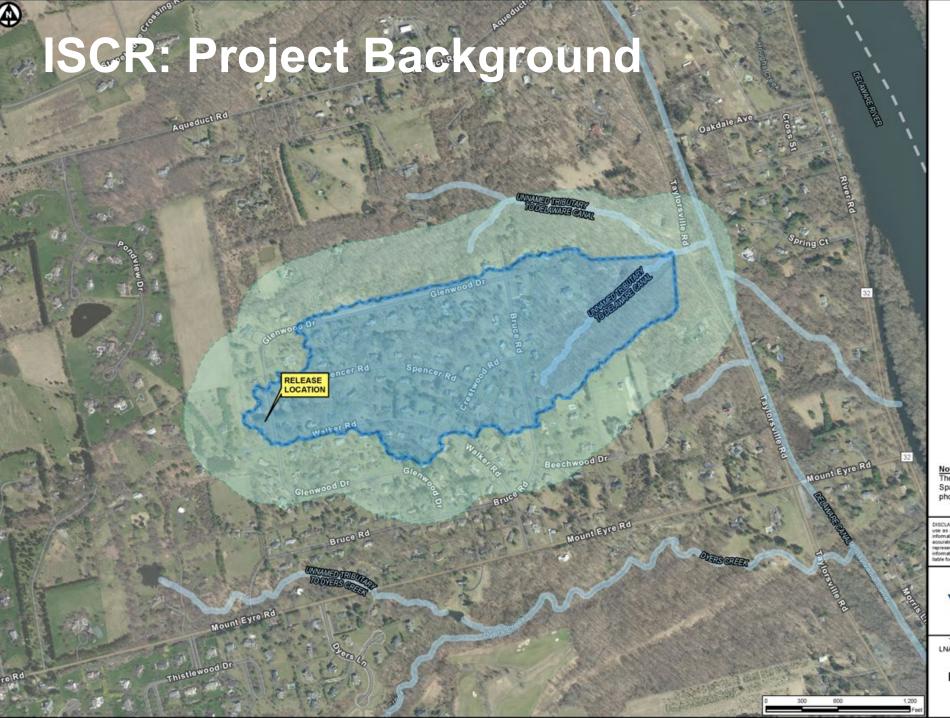
- Complete site characterization activity
- Submit additional Remedial Action Progress Reports
- Submit Remedial Action Plan
- Submit Act 2 Final Report



ISCR: Purpose & Objectives

- Provides current status of the ongoing characterization of soil and groundwater impacts from the pipeline release
- Goal of the characterization process:
 - Define the nature and extent of impacts from the pipeline release
 - Gather necessary information to develop any required remedial actions
- Additional report required by DEP Administrative Order
 - Not required by Act 2





LEGEND

Catchment/Drainage Area

Catchment/Drainage 500' Buffer

Note: The aerial photo was acquired from the Pennsylvania Spatial Data Access (PASDA) web service. Aerial photography dated 2018.

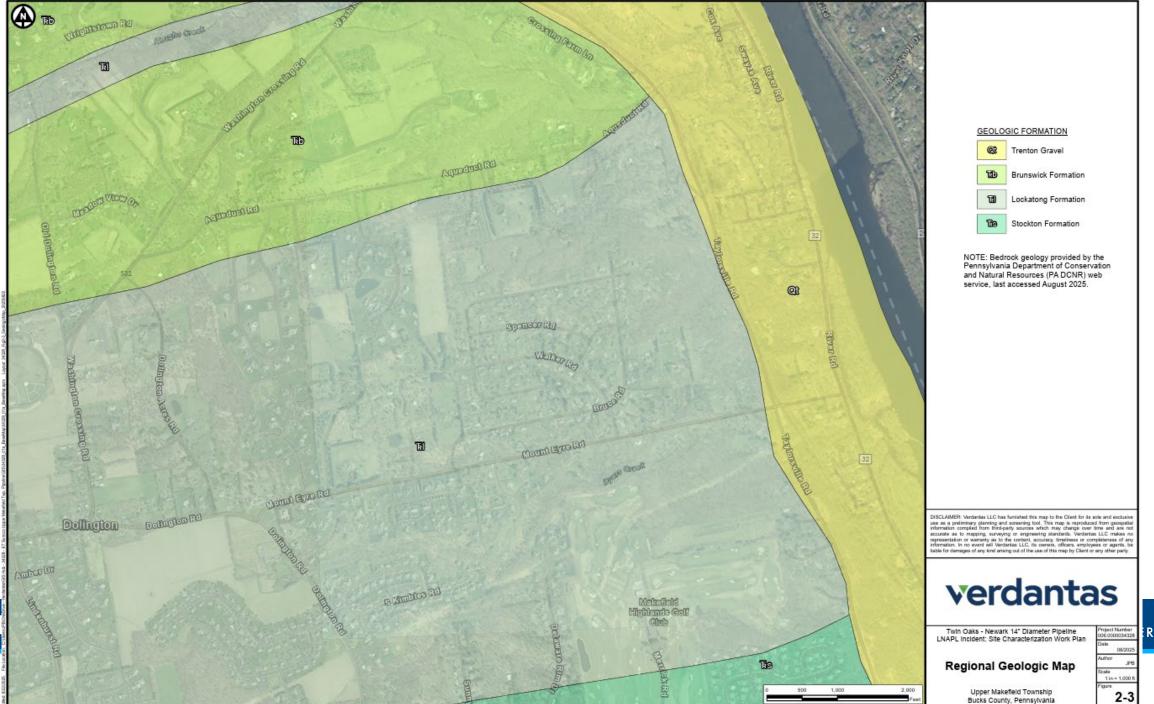
agresentation or warranty as to the content, accuracy, timeliness or completeness of an formation, in no event will Vertentials LLC, its owners, officers, employees or agents able to damages of any kind arising out of the use of this map by Client or any other party.

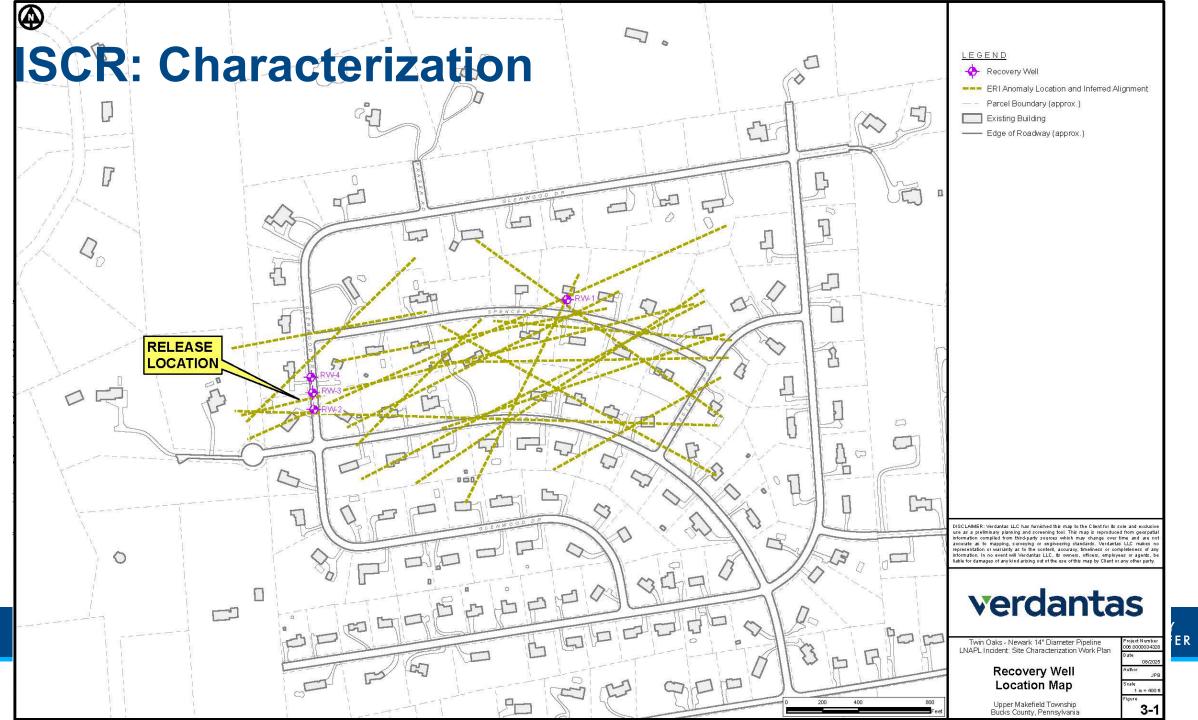
verdantas

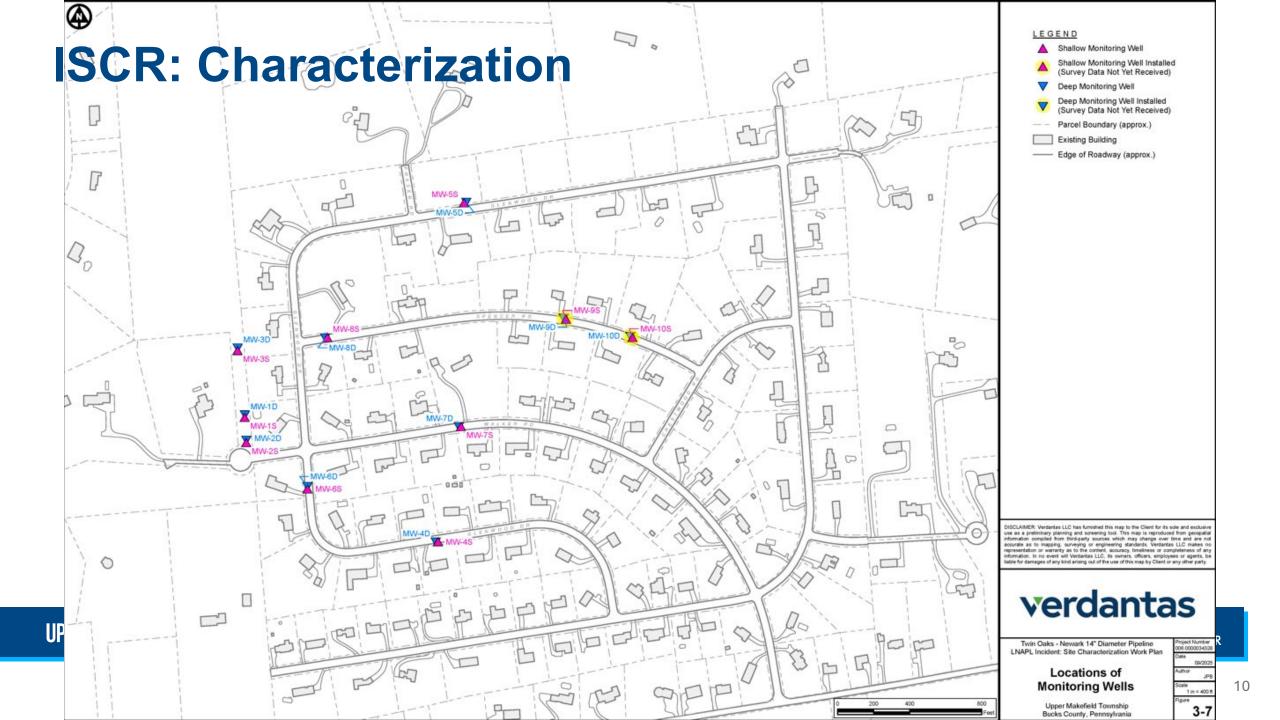
Twin Oaks - Newark 14" Diameter Pipeline LNAPL Incident: Site Characterization Work Plan

Investigation Area Map

Upper Makefield Township Bucks County, Pennsylvania

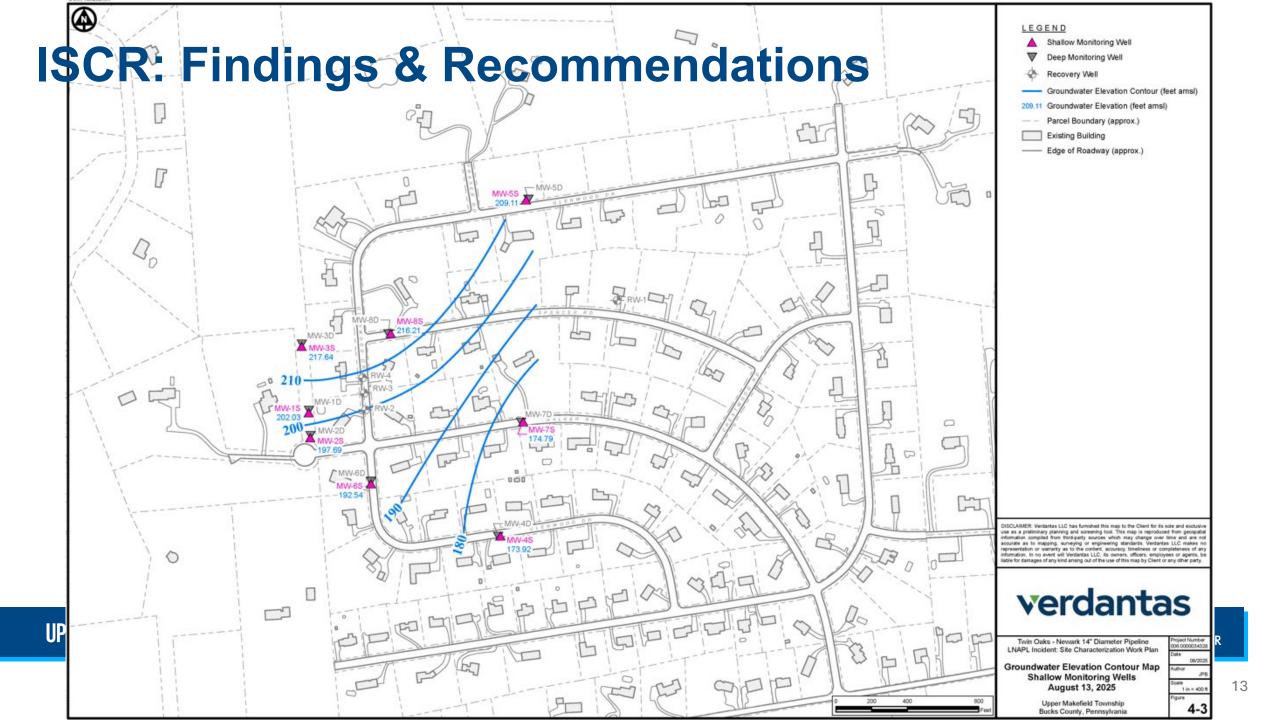












ISCR: Findings & Recommendations **RELEASE** LOCATION RW-3 RW-2 Walker Rd **UPPER** Glenwood Dr Glenwood Dr

LNAPL Historical Results (February - August 2025)

LEGEND

- ▲ Shallow Monitoring Well
- ▼ Deep Monitoring Well
- Recovery Well

LNAPL (Light Non-Aqueous Phase Liquid) RESULTS

- No LNAPL Detected
- NAPL Detected
- LNAPL Does Not Appear to be Jet Fuel Based on Visual Appearances and Odor

NOTE:

1) The well at 108 Spencer Road is no longer used as a domestic water supply.







ISCR: Findings & Recommendations



LNAPL (August 11-12, 2025)

LEGEND

- ▲ Shallow Monitoring Well
- ▼ Deep Monitoring Well
- Recovery Well

LNAPL (Light Non-Aqueous Phase Liquid) RESULTS

- No LNAPL Detected
- LNAPL Detected
- LNAPL Does Not Appear To Be Jet Fuel Based on Visual Appearances and Odor

NOTE:

1) The well at 108 Spencer Road is no longer used as a domestic water supply.

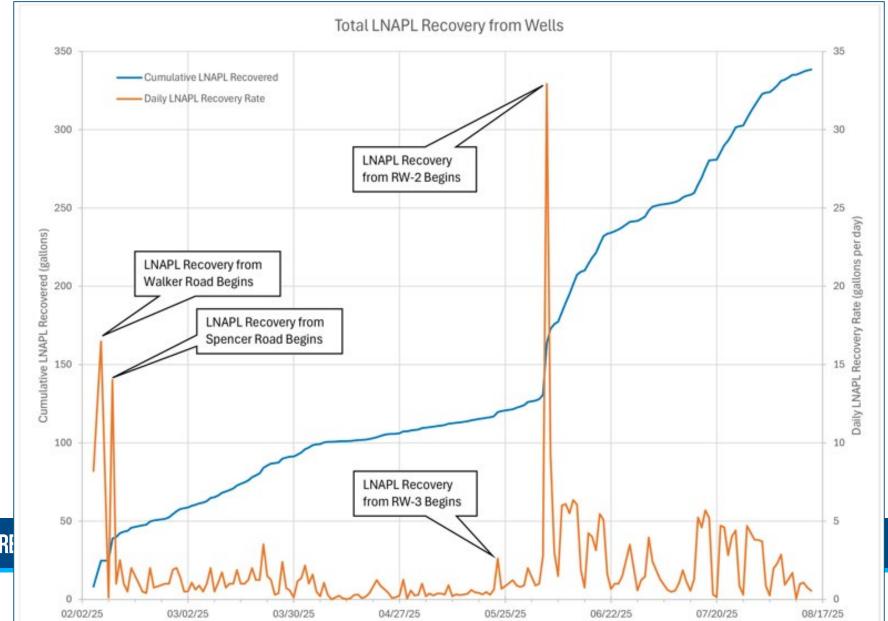




UPPER MAKE

ENERGY ▶ TRANSFER

ISCR: Overview of Interim Remedial Progress







References & Appendices

Examples of references included in the report:

Boggs, Jr S., 2009. Petrology of Sedimentary Rocks. 2nd ed. Cambridge University Press.

Pennsylvania Department of Conservation and Natural Resources (DCNR). 2025. Bedrock Geology of Pennsylvania – Geologic Units. Bureau of Topographic and Geologic Survey. Retrieved from https://www.dcnr.pa.gov

 Full ISCR references and all 43 appendices can be found: https://uppermakefield.incidentupdates.com/act-2-remediation-documents/



Public Comment

- Written public comments will be accepted through
 Oct. 17, 2025 and can be sent via email or in writing:
 - Email: uppermakefieldact2@energytransfer.com
 - Mail: SPLP, 525 Fritztown Road, Sinking Spring, PA 19608
- Please direct written comments to Attention: ISCR
 Public Comment



For information shared at this meeting, or to view documents related to Act 2 and our Public Involvement Plan, please visit:

uppermakefield.incidentupdates.com



