



Waste Management and Prevention Division

Vermont Yankee Nuclear Decommissioning
Citizen Advisory Panel Meeting
DEC Oversight Status

December 12, 2022

Graham Bradley

Vermont DEC WMPD

DEC Role:

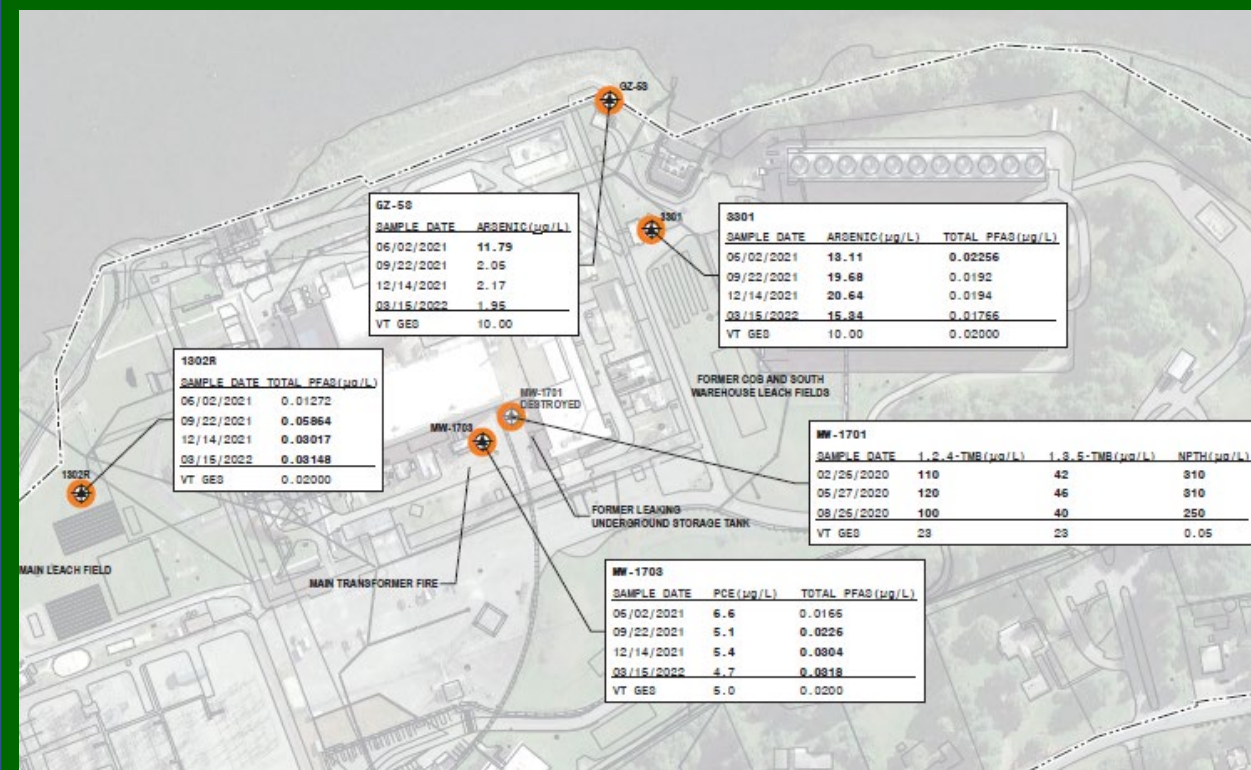
Ensure adherence to the 3/2/2018 Memorandum of Understanding (MOU) between NorthStar and the State of Vermont, through:

- Ongoing communication and coordination
- Oversight of non-radiological characterization:
 - Site Investigation
 - Groundwater Monitoring
 - Post Demolition Surveys
- Corrective Action Plans (CAP) Review/Approval
- CAP Completion Review/Approval
- Permitting – with other DEC programs
- Progress review

Groundwater Monitoring

Groundwater Quarterly Sampling:

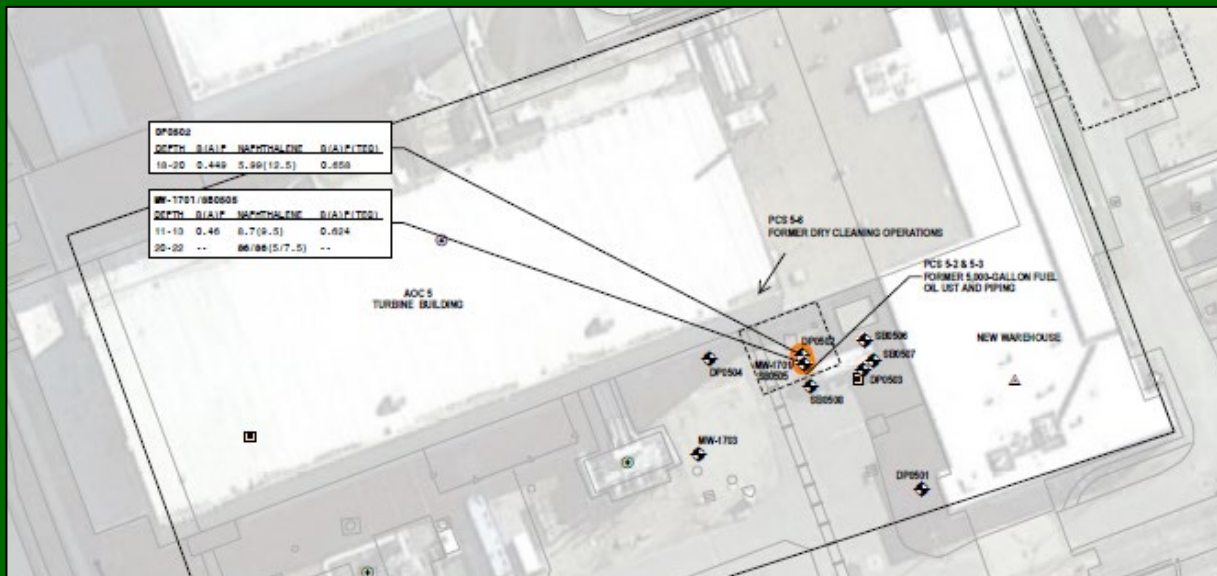
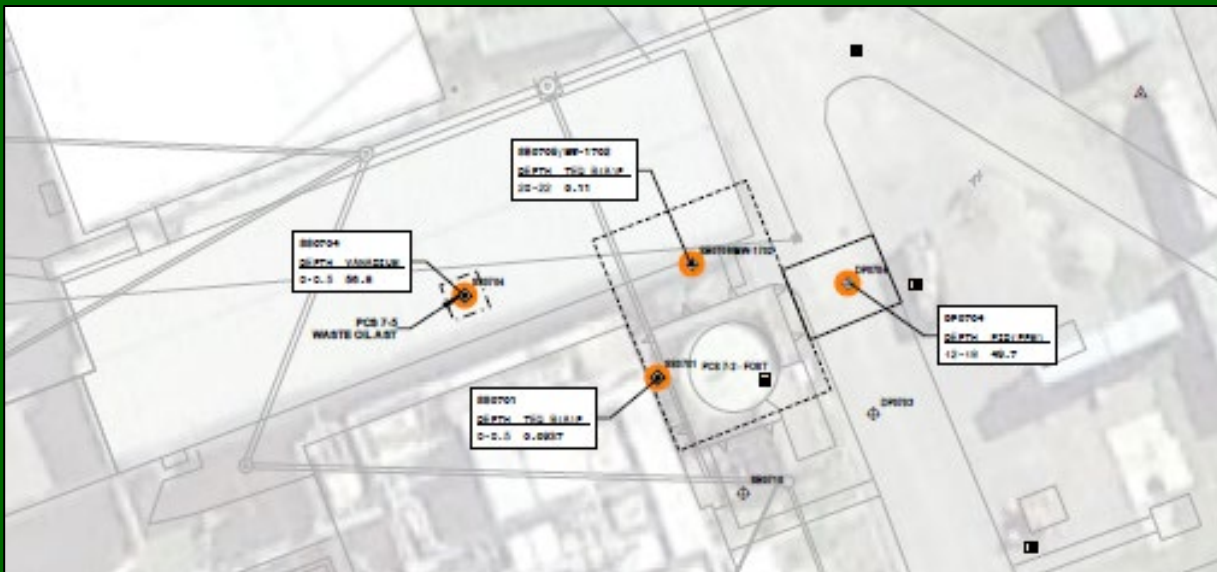
- No update
 - Three years of quarterly monitoring
 - 70 wells to 19 wells to 4 wells
 - Atlas validated Haley & Aldrich procedures and laboratory results
 - 2021-2022 Annual Report received
 - Impacts small - local exceedances of VOCs, PAHs, and PFAS
 - Monitoring suspended during demolition and soil remediation
 - Existing wells abandoned and new well installed post-remediation
 - Post-completion monitoring plan in preparation by H&A



Corrective Action Plans Approved

1. Area of Concern (AOC) 7A - 75,000 gal Fuel Oil Storage Tank & 500 gal Waste Oil Aboveground Storage Tank
2. Area of Concern (AOC) 5 - Fuel-Impacted Soils at the Turbine Building
 - Excavation
 - Confirmatory soil sampling
 - Groundwater sampling
 - Stockpile management & characterization
 - Off-site disposal
 - Restoration & completion report
 - Schedule – when area is clear and equipment available

Corrective Actions





Post Demo Surveys



Post Demolition Surveys

1. Spray Pond

- Used to cool non-contact plant water
- Soil stockpile area for non-rad remedial excavations
- No staining or orders. Photoionization detector readings 0.0 ppm

2. Interim Off-Gas System (IOG)

- Steam forced through condensers and carbon bed, before discharge
- Replaced by Advanced Off-Gas System in 1973.
- No visual or olfactory evidence of non-radiological contamination

DEC Permit Programs

- **Hazardous Waste Program (WMPD)**
 - Offsite battery shipment as mixed waste
- **Residuals program (WMPD)**
 - Processing end of certification for land application
- **Public Drinking Water Program (DWGPD)**
 - Routine compliance
- **Direct Discharge (WMD)**
 - New permit effective December 1st
- **Stormwater Program (WMD)**
 - IFISI general permit under review
- **Rivers Program (WMD)**
 - Working on restoration design & permits
- **Air Emissions (AQCD)**
 - Processing permit for generators