

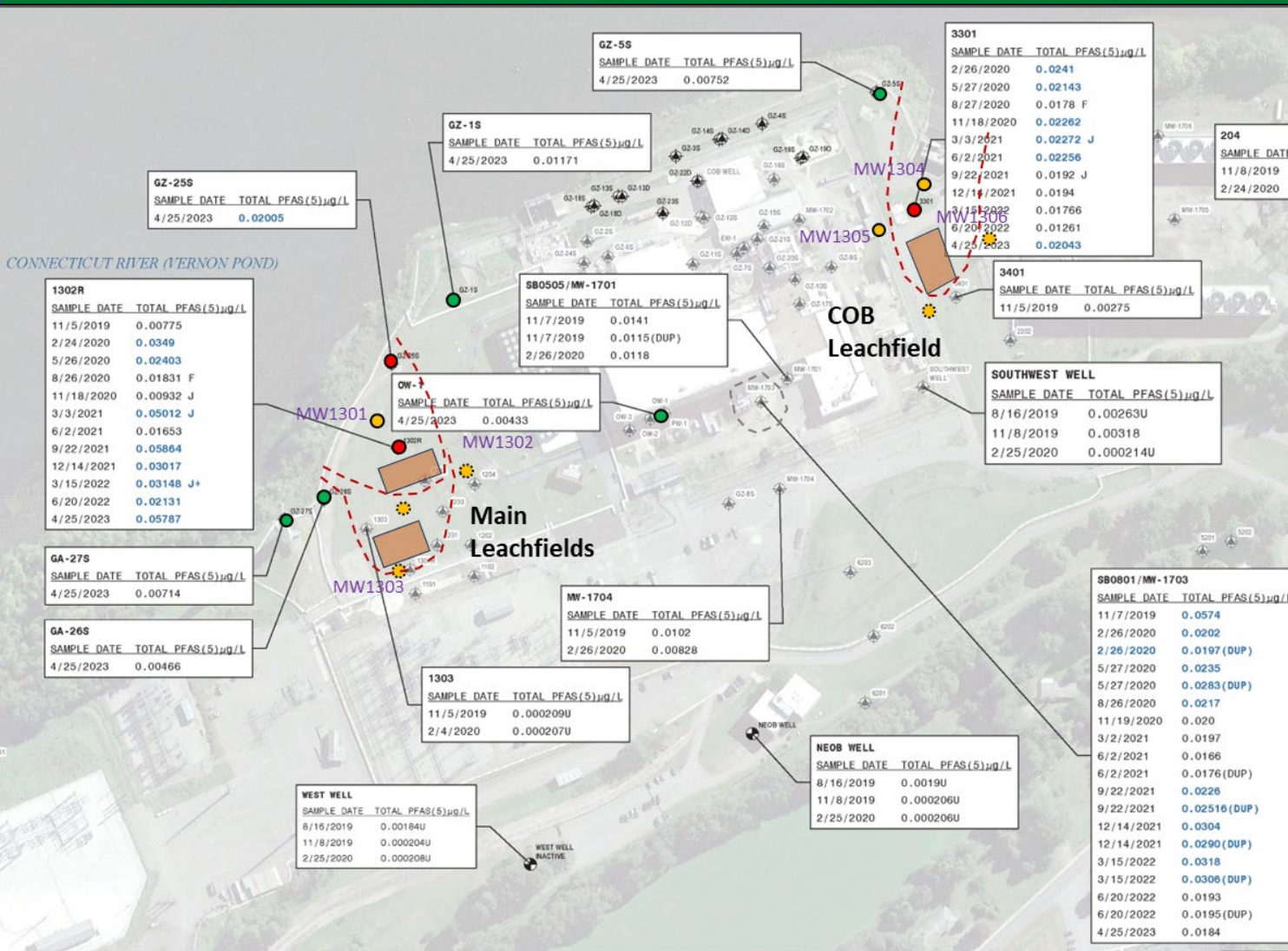
DEC Role: Regulate Vermont Rules & Memorandum of Understanding

- Ongoing communication & coordination
- Oversight of non-radiological remediation:
 - Site Investigation
 - Corrective Actions
 - Post Demolition Surveys
 - Long Term Monitoring
- Permitting – with other DEC programs



- **Non-Radiological Investigation & Remediation**
 - **Site Investigation – Leachfield PFAS groundwater investigation (April/May 2024)**
 - **Post Demolition Surveys (part of investigation)**
 - **Advanced Off-Gas Building (January 2024)**
 - **AOC 11 – “New Warehouse” location (February 2024)**
 - **Corrective Actions**
 - **AOC 5 – former Diesel Oil Tank southwest of former Turbine Building (April/May 2024)**
 - **AOC 7a – former 75,000 gallon Fuel Oil Storage Tanks (April/May 2024)**
- **DEC Permitting**
 - **Drinking Water, Direct Discharge, Stormwater, River Alteration**

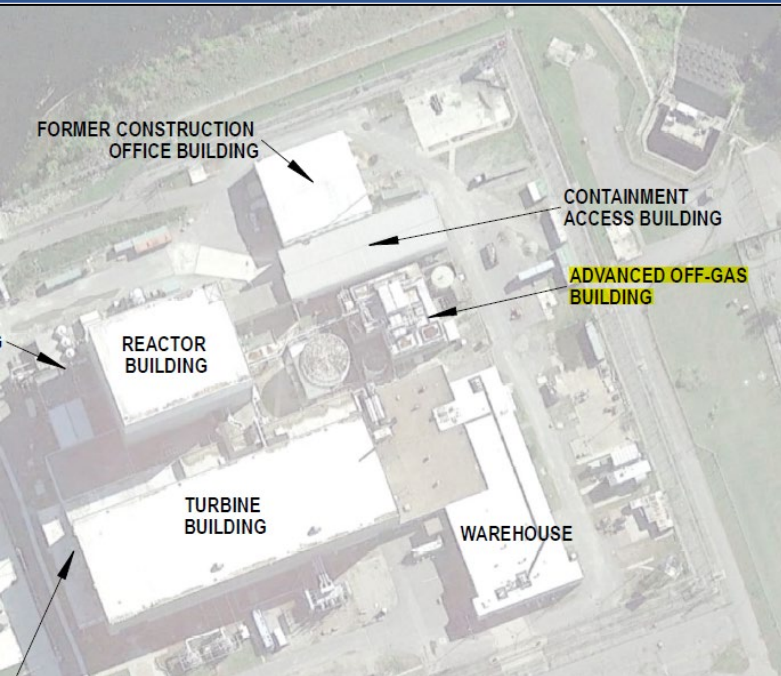
PFAS in Groundwater Investigations



Investigation & Remediation of Contaminated Properties Rule

- PFAS identified downgradient of leachfields 12 to 50 ppt (current standard 20 ppt)
- Report is required to “Identify the source, degree, and spatial extent of contamination”
- DEC reviewed Haley & Aldrich workplan and agreed monitoring well locations
- Groundwater samples being taken
- DEC will determine if this IRule requirement has been achieved

Advanced Off-Gas Building Area (Jan. 2024)

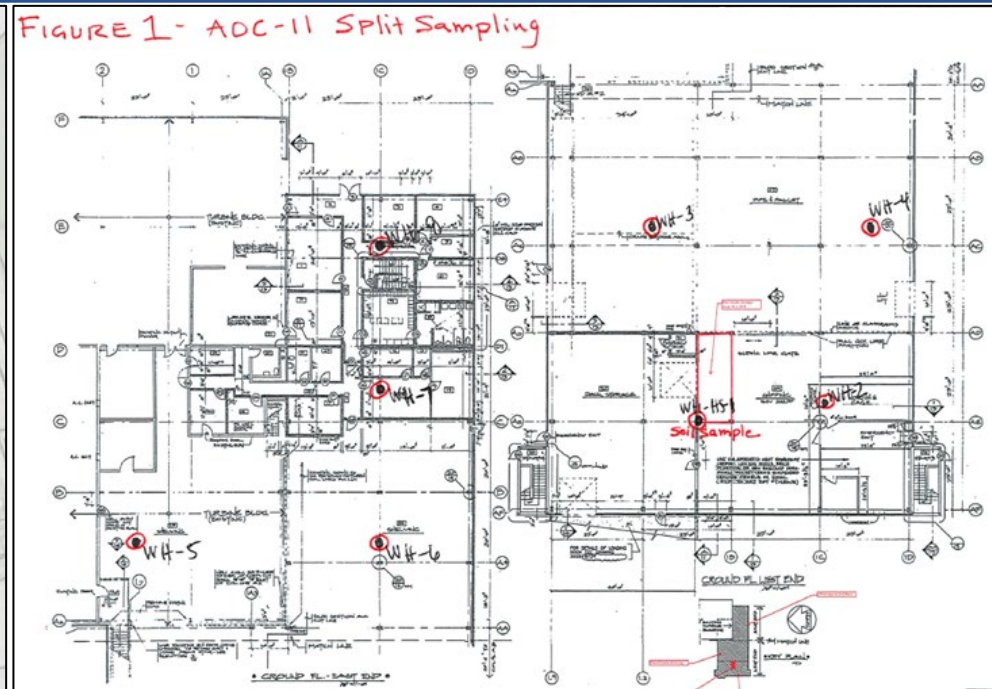
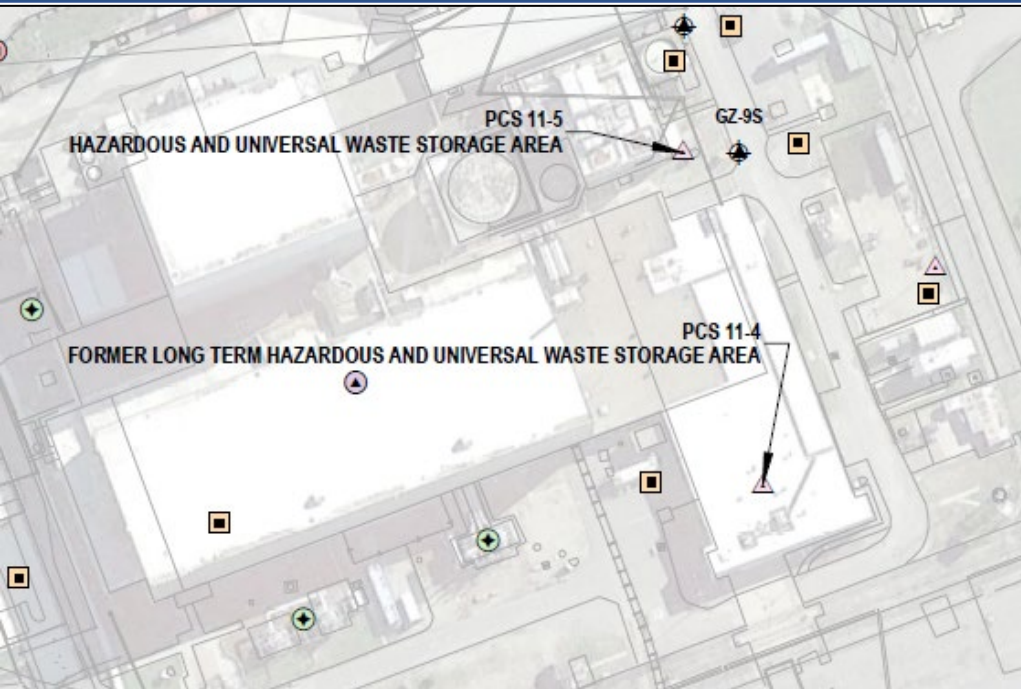


HALEY ALDRICH		HEADSPACE SCREENING REPORT				
PROJECT	Vermont Yankee Nuclear Power Station				H&A FILE NO.	
LOCATION	Advanced Off Gas Building (AOG)				PROJECT MGR.	
CLIENT	NorthStar Nuclear Decommissioning Co., LLC.				FIELD REP.	
INSTRUMENT	MiniRae 3000				DATE SAMPLED	
DATE CALIBRATED ⁽¹⁾	1/17/2024	LAMP (eV)	10.6		DATE SCREENED	
AMBIENT TEMPERATURE	~22°	CALIBRATED BY	ESD		SCREENING LOC.	
Exploration	Sample Number	Depth (ft)	Sample Description	Sample Reading (ppm) ⁽²⁾	Back-Ground Reading (ppm) ⁽²⁾	Remarks
HS-01	--	0-0.25	Brown C to F SAND, some gravel	0.0	0.0	No Staining or odor
HS-02	--	0-0.25	Brown C to F SAND, some gravel	0.0	0.0	No Staining or odor
HS-03	--	0-0.25	Brown C to F SAND, some gravel	0.0	0.0	No Staining or odor
HS-04	--	0-0.25	Brown C to F SAND, some gravel	0.2	0.0	No Staining or odor
HA-05	--	0-0.25	Brown C to F SAND, some gravel	0.0	0.0	No Staining or odor
HS-06	--	0-0.25	Brown C to F SAND, some gravel	0.0	0.0	No Staining or odor
HS-07	--	0-0.25	Brown C to F SAND, some gravel	0.0	0.0	No Staining or odor



- Contamination not expected, but located west of fuel pipes
- Conducted by H&A observed by Atlas Environmental
- No observed visual, olfactory, and PID evidence (7 locations)
- No evidence of Total Organic Vapors (TOVs)

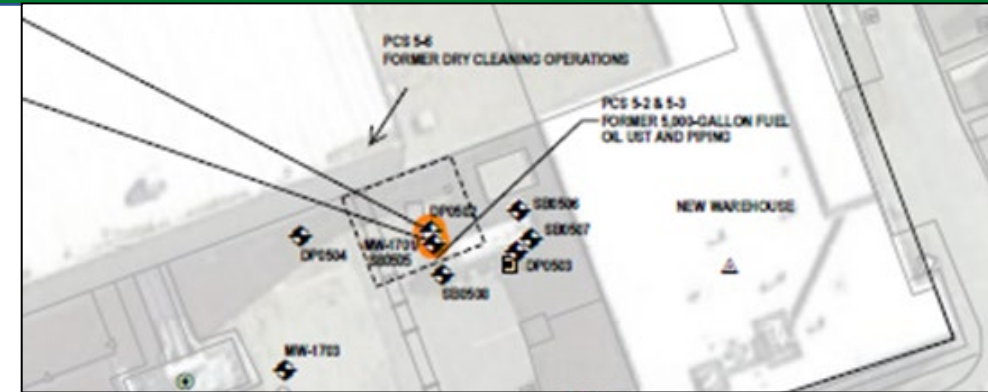
“New” Warehouse Area (Feb. 2024)



- Contamination not expected
- Conducted by H&A observed by Atlas Environmental
- No observed visual, olfactory, and PID evidence (8 locations)
- One sample analyzed for semi-volatile organic compounds; below VT resident standards

AOC 5 – Former Diesel Oil Tank (April/May 2024)

- Leak reported during plant operations, but too close to the building to remediate
- Soils excavated based on visual & PID readings, then clean boundaries sampled
- H&A collected 50 confirmatory soil samples from excavation sidewalls (including QA/QC)
- Atlas collected 6 split samples and 1 QA/QC
- Clean boundaries have been confirmed




AOC 5 – Former Diesel Oil Tank (April/May 2024)

DEC preliminary understanding:

- Excavation larger than expected (approximately 10,000 cubic yards ?)
- Approximately 3,500 cubic yards (?) impacted soil shipped to WCS
- Cut foundations to gain access to contaminated soil
- Non impacted soil stockpiled on concrete slab for radiological screening and potential reuse as backfill, after testing.

AOC 7a – former 75,000 gallon Fuel Oil (April/May 2024)

- Leak reported during plant operations, but below the tank vault (inaccessible)
 - Initial remediation excavation complete
 - H&A and Atlas took confirmation samples last week (May 9, 2024)
 - Waiting on laboratory results
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- The site map displays an aerial view of an industrial facility with several key features and data points. A central circular tank is labeled 'WATER TANK'. To its left is a rectangular area labeled 'WASTE OIL AST'. Four orange circular markers indicate sample locations, each with a callout box: 'BB0704 DEPTH: VARIOUS 0-0.5 00.8', 'BB0701 DEPTH: TOU SLIP 0-0.5 0.007', 'BB0702 DEPTH: TOU SLIP 20-22 0.11', and 'BB0704 DEPTH: BELLBELL 12-18 40.7'. A dashed rectangular boundary encloses the central tank and the two sample points BB0701 and BB0702. Other labels on the map include 'PCB 7-0', 'PCB 7-0-POST', 'PCB 7-0', 'DHW13', and 'DHW14'.
- Both AOC 5 & 7a areas to be backfilled following confirmation from the lab analyses that all impacted soils have been excavated.

- **Public Drinking Water Program (DWGPD)**
 - On-site well. Routine compliance. No issues.
- **Direct Discharge (WMD)**
 - None. No permit change being sought at this time.
- **Stormwater Program (WMD)**
 - Routine inspections to ensure stormwater and sediment control
- **Rivers Program (WMD)**
 - Rivers Program to respond to Stream Alteration Permit change.