U.S. DEPARTMENT *of* ENERGY

Office of Environmental Management

Quarterly Public Meeting

2025 Annual Site Environmental Report (ASER) Summary

West Valley Cleanup Alliance

November 18, 2026

A MESSAGE TO THE COMMUNITY

The WVDP sits on the site of the only commercial nuclear fuel reprocessing facility ever operated in the United States. DOE has managed its long-term cleanup since 1982.

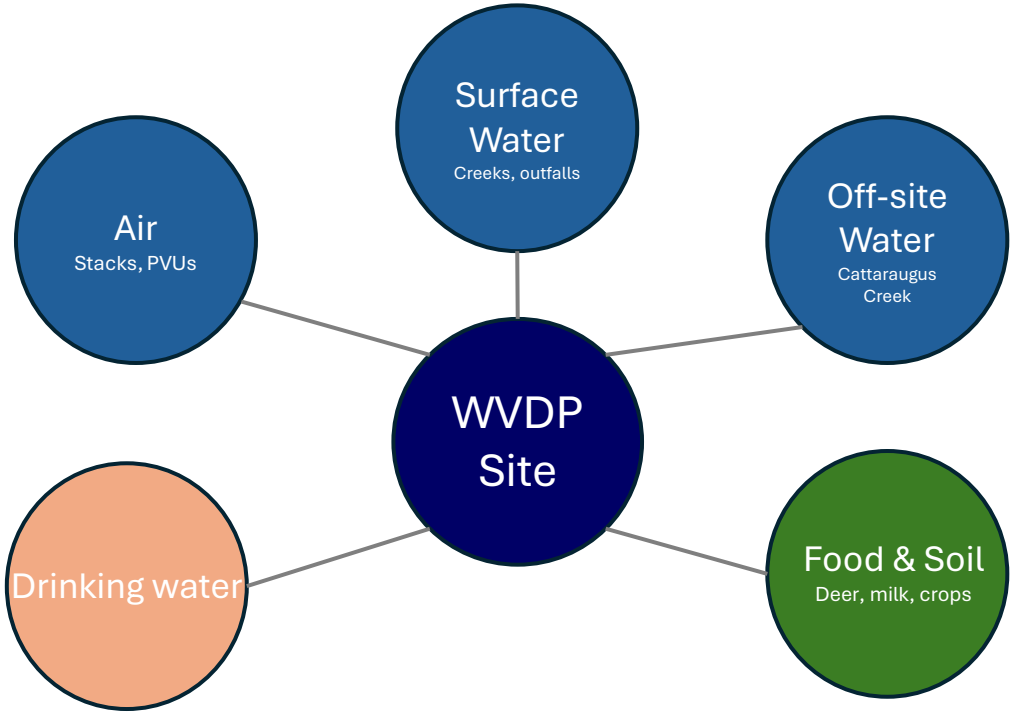
The Annual Site Environmental Report (ASER) summary presentation will help you understand how the cleanup is monitored and how the site protects people and the environment around it.

This presentation **does not replace** the full 2025 ASER which is available at the DOE-WVDP website or through the following QR code:

https://www.energy.gov/wvdp/annual-site-environmental-reports-aser

What Gets Checked

Every pathway that could carry substances to the community



Air and surface water | Land and food | Drinking water

Monitoring locations for air, surface water, soil, and food are also placed outside the WVDP fence line.

Monitoring Program at a Glance

The scale of the 2025 monitoring network

3
Active on-site stacks

16
Off-site air samplers

99.08%
Average ambient air sampler operability in 2025

64
Groundwater wells monitored across the site

7 of 15
Portable ventilation units used in 2025

7 + 3
Surface water locations: 7 on site, 3 off site (1 upstream, 2 downstream)

19
Stormwater discharge points under the NYS SPDES permit

What the 2025 Monitoring Found

Results by category

BELOW SAFETY STANDARDS

Air and Water

All radioactive emissions to air and water stayed well below legal limits. No unplanned releases. No permit violations for off-site creek discharges.

NO NEW CONTAMINATION

Groundwater

Of 64 wells, a couple of metal results were slightly elevated and only one slightly exceeded a threshold, most likely from corroding well equipment. The north-side plume is still tracked.

BELOW LIMITS

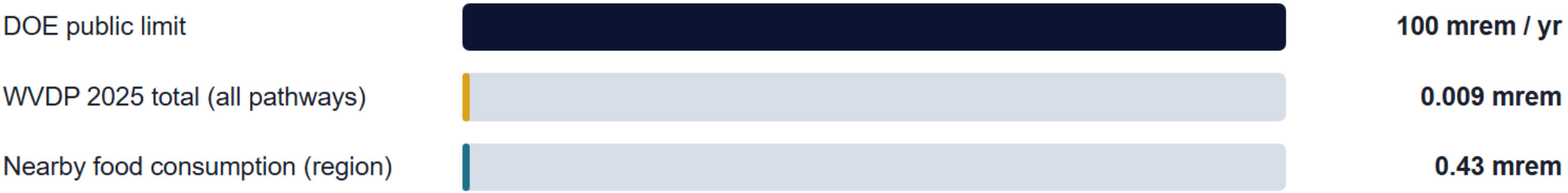
Drinking Water and Local Food

All drinking water samples, including PFAS, were below legal limits. Milk and deer near the site showed no measurable difference from distant background samples.

What “dose” and “safety limit” mean

The site's 2025 dose compared with the limit

Dose is measured in millirem (mrem). Bars show the share of the DOE limit (100 mrem per year, all pathways).



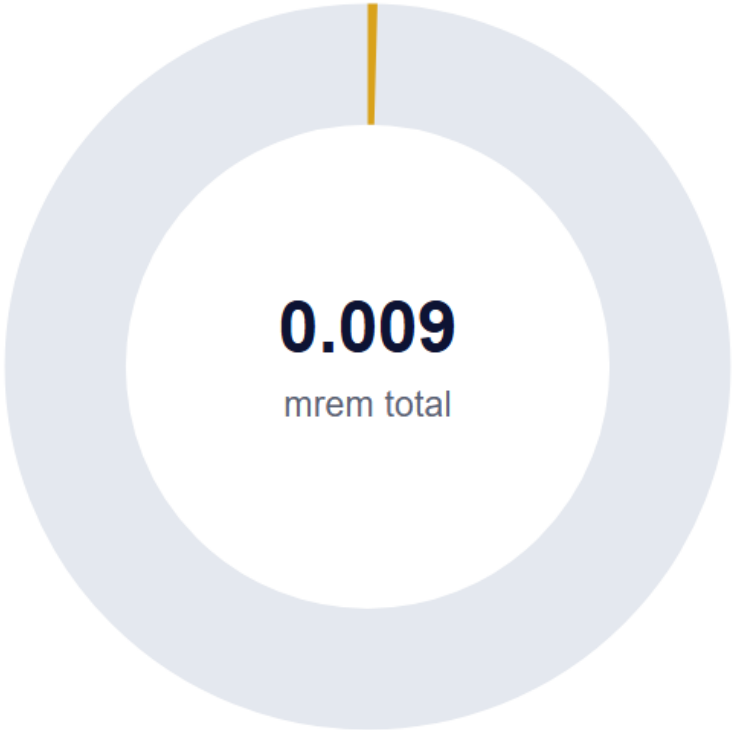
0.009%
of the DOE 100 mrem limit

310
mrem/yr natural background (comparison)

620
mrem/yr average American (about half natural, half man-made)

2025 Annual Dose Results

Airborne releases contributed zero dose; waterborne releases contributed 0.009 mrem



Airborne releases 0 mrem (0 mSv)

0% of the 10 mrem/yr EPA air standard. 0 person-rem collective dose.

Waterborne releases 0.009 mrem (0.00009 mSv)

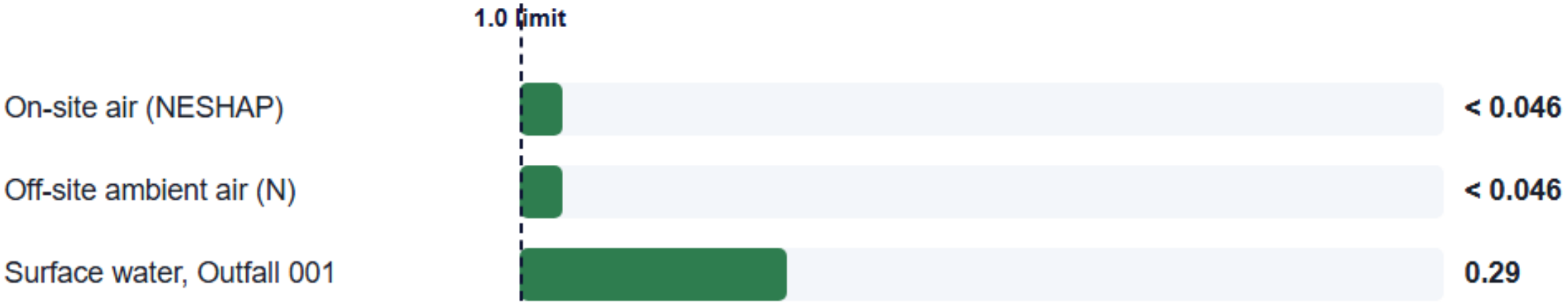
0.003% of natural background. 0.1 person-rem collective dose (50-mile radius).

Total: 0.009% of the DOE 100 mrem standard.

2025 Compliance Results

WVDP was fully compliant with all environmental guidelines

Ratios below 1.0 are compliant. Bars show the highest reported ratio in each category.

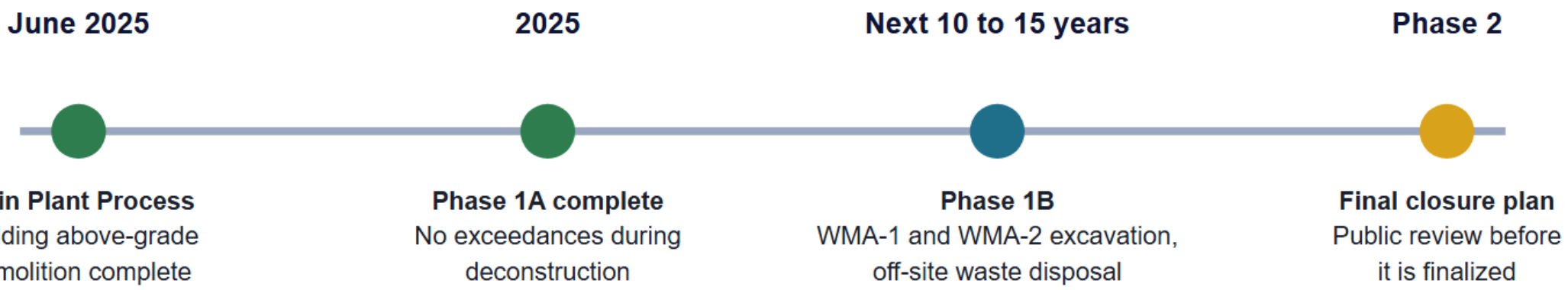


On-site air: annual averages of all isotopes were multiple orders of magnitude below DOE standards.

NYS SPDES (non-radiological): no exceedance of State permit limits.

What's next for the WVDP

Cleanup milestones from completed work to Phase 2



While Phase 1B proceeds, DOE and NYSERDA will decide how to close remaining waste tanks, a debris landfill, and two closed disposal areas, after a new supplemental environmental impact study.

Three Highlights from 2025

Major work completed while keeping the community safe

1

Building Demolition, Done Safely

The above-grade Main Plant Process Building, a major source of historical contamination, was torn down by June 2025, a month ahead of schedule.

2

Protecting the Groundwater Wall

The underground Permeable Treatment Wall (installed 2010) keeps filtering strontium-90 from on-site groundwater. Changes to winter road salt helped it keep working.

3

Study of an Old Waste Tank

Tank 8D-4, one of the site's original radioactive waste tanks, was sampled further to understand what waste remains inside.

How you know these results are trustworthy

Independent checks and multiple agency oversight

INDEPENDENT CHECKS

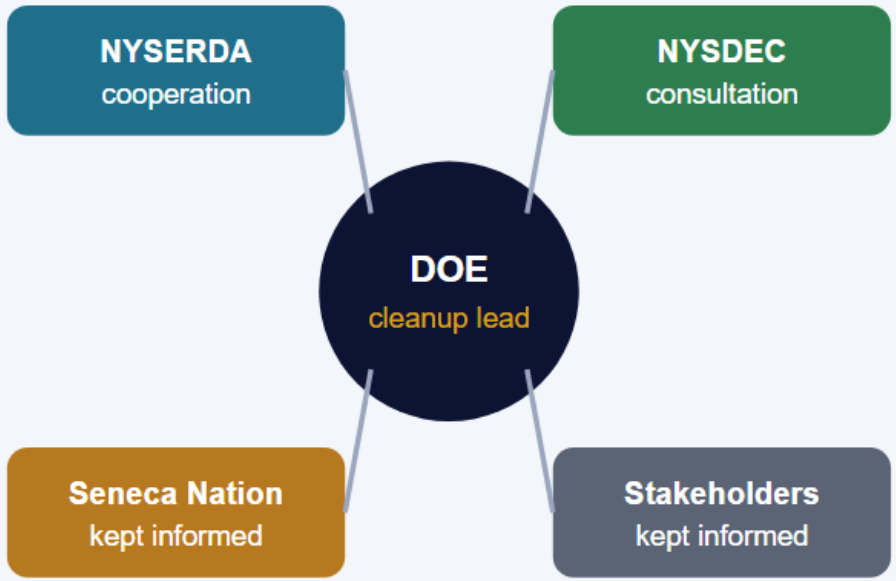
ISO 14001:2015

Outside auditor confirmed the site meets this international environmental management standard (August 2025)

Blind samples

Outside labs tested every year by DOE and the State

AGENCY OVERSIGHT



Biota Sampling

What is sampled, and how often

Every year
Deer

Every year
Milk, one near-site farm (more every 5 years)

Every 5 years
Fish

Every 5 years
Crops (apples, beans, corn)

Every 5 years
Soil and sediments

2025 result: Sr-90 and Cs-137 were detected in one near-site deer sample at very low levels (below the minimum detectable concentration).

Next 5-year samples will be collected in 2027.

Food dose: estimated dose from food consumption in the region was 0.43 mrem, 0.43% of the 100 mrem limit.

How to stay informed or get involved

Quarterly Public Meetings: February, May, August, and November

February	May	August	November
QPM	QPM	QPM	**Nov 18, 2026: this meeting**

Read the full ASER through the DOE WVDP document index.

Watch for public comment periods on future site decisions.

Fill out the survey included with the annual report.

Ask questions of WVDP Communications at any time.

Questions and Contacts

WVDP Communications

(716) 942-4996

Email

joseph.pillittere@wvdp.doe.gov

Full 2025 ASER and SPDES reports: energy.gov/wvdp/public-reading-room

Background



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MPPB Deconstruction Completion

The above-grade portion of the Main Plant Process Building (MPPB) deconstruction was completed in June 2025.

- No changes in the WVDP environmental monitoring program
- The monitoring program, may be modified in the future to account for changes in the surface water systems and groundwater flow.



Environmental Monitoring Program Overview

The Environmental Monitoring Program includes the following components:

- target analytes
- media
- locations
- sampling and analysis methods
- frequencies

These components were established based on:

- historical records of isotope inventories at the plant – major isotope constituents
- site and regional geology
- regional topography
- regional climate
- regional vegetation and farming types
- laboratory analysis capabilities, etc.

On-Site Air Monitoring [radiological (rad)]

3 active stacks in 2025

- ANSTSTK (Supernatant Treatment System)
- ANRHWFK (Remote Handled Waste Facility)
- ANCSPFK (Container Sorting and Packaging Facility)
  - Biweekly/Semiannual
  - 13 radioisotopes + gross alpha/beta

Up to 15 Portable Ventilation Units (PVUs). In 2025, WVDP used 7.

  - Biweekly/Semiannual
  - 14 radioisotopes + gross alpha/beta





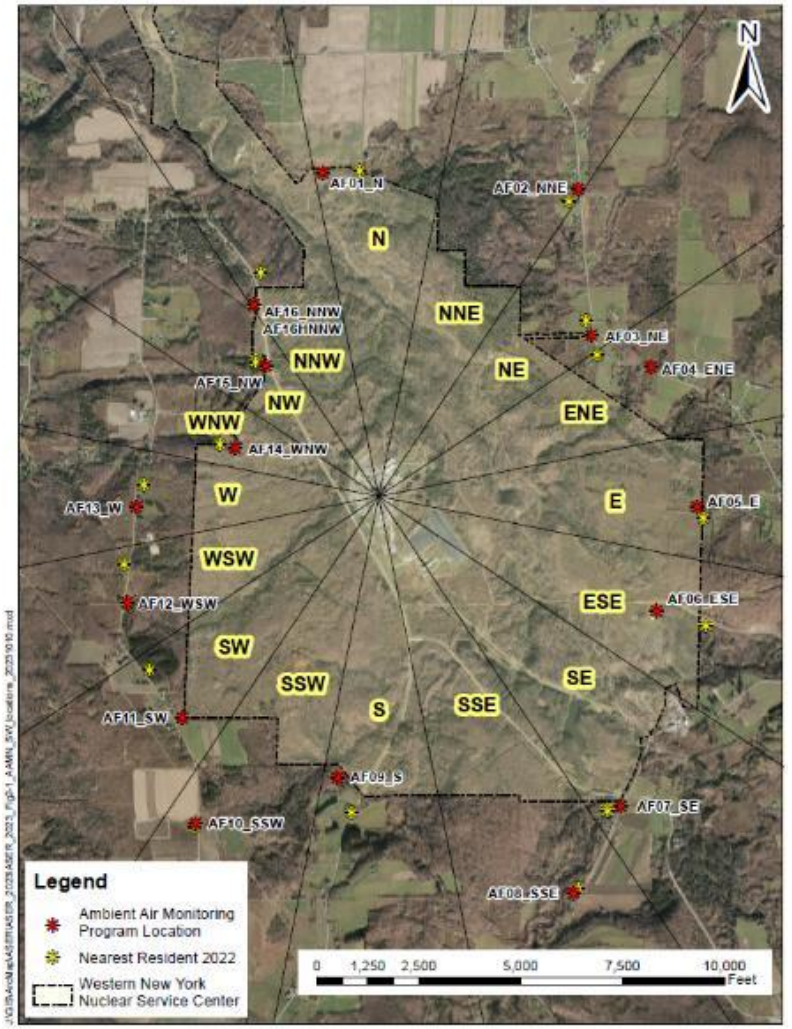




Off-Site (Ambient) Air Monitoring [rad]



- 16 continuously running air samplers within approximately 1 – 2 miles of the WVDP site
- 1 sampler in each compass sector
- 1 additional sampler in the critical receptor direction (NNW)
- The WVDP ambient air samplers achieved 99.08% operability on average in 2025
- Background sampling location in Great Valley approx. 18 miles south of the site (*not on the map*)



On-Site Surface Water Monitoring

Surface Water Monitoring – 7 locations [rad]

- Continuous or grab sample monitoring
- Outfall 001 (from Lagoon 3) – treated water discharge point
- Number of analytes varies by location. At Outfall 001, 15 isotopes + gross alpha/beta

State Pollutant Discharge Elimination System (SPDES) [non-rad]

- 19 stormwater discharge points
- Outfall 001 (WNSP001) is continuously sampled during the controlled discharges from Lagoon 3 to Erdman Brook

SPDES Discharge Monitoring Reports (DMRs) are now posted on the DOE-WVDP website:
https://www.energy.gov/wvdp/public-reading-room



Off-Site Surface Water Monitoring [rad]

1 upstream location and 2 downstream locations.

- **WFFELBR** – Cattaraugus Creek at Felton Bridge. First point of public access to surface water potentially impacted by the WVDP activities. Sampled monthly. Sr-90, Cs-137, H-3, gross alpha/beta

- **WFBCTCB** – Buttermilk Creek at Thomas Corners Road. Sampled semiannually. Sr-90, Cs-137, H-3, gross alpha/beta

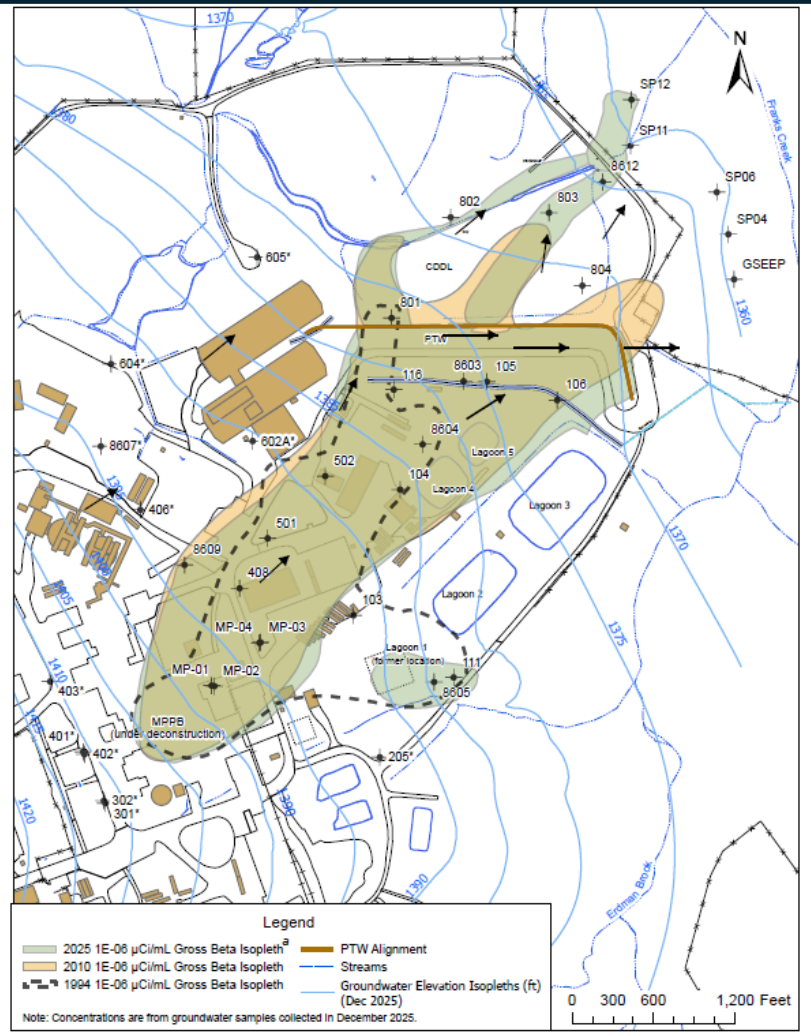
- **WFBCBK**G – Buttermilk Creek approx. 2 miles south of the site (upstream). Sampled semiannually. 14 isotopes + gross alpha/beta



Groundwater [rad]

Not part of dose assessment for off-site residents

- No consumption of groundwater from wells downgradient (groundwater flow) of the Sr-90 underground plume at the WVDP
- Nearby residential groundwater wells are hydraulically separated from the WVDP plume by surface-water ravines (e.g., Quarry and Franks Creeks) that receive groundwater seepage from the site
- Groundwater seepage to surface water is captured by surface water sampling at WFBCTCB – Buttermilk Creek at Thomas Corners Road



Drinking Water

On-site potable water is supplied by two wells and tested for:

- Chemical/bacterial parameters – total coliform, nitrate, principal organic chemicals, primary organic chemicals, lead and copper
- Radiological parameters – gross alpha/beta, tritium
- EPA emerging chemicals – 6 PFAS constituents, PFAS Hazard Index based on 4 PFAS constituents, and 1,4-Dioxane

2025 Results – Radiological results and PFAS/1,4-Dioxane results were below EPA and NYS limits and standards

Biota

Sampling schedule (near-site, background) :

- **Deer: Every year**
- **Milk: One near-site farm sampled every year;**
  - Additional near-site/background every 5 years
- Fish: Every 5 years
- Crops (apples, beans, corn): Every 5 years
- Soil/sediments: Every 5 years

  Next 5-year samples will be collected in 2027








2025 Results

- Positive results of Sr-90 and Cs-137 in one near-site deer sample were at very low levels (< Minimum Detectable Concentration)
- Estimated dose from food consumption in the nearby region was 0.43 mrem, 0.43% of 100 mrem DOE guidelines for annual dose from all pathways.

Compliance

Required to demonstrate against concentration and dose limits, standards, and guidelines

Category	Threshold	Type	Method
Stack Emission	Compared to DOE-STD-1196-2022 Derived Concentration Standard (DCS) (µCi/mL)	Concentration (leads to 100 mrem (1 mSv)/year dose)	Comparison
Off-Site Air (Individual)	Title 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAP) Appendix E	Concentration (leads to 10 mrem (0.1 mSv)/year dose)	Ratio against a concentration limit per radionuclide per location. If MEOSI* ratio is < 1, considered compliant
Off-Site Air (Population) (50-mile [80-km] radius)	DOE-HDBK-1216-2015	Dose. 100 person-rem (1 person-Sv) *guideline*	Comparison/Trend
Surface Water	Compared to DOE-STD-1196-2022 (DCS) (µCi/mL)	Concentration (leads to 100 mrem (1 mSv)/year dose)	Ratio against a concentration limit per radionuclide per location. If sum of ratio is < 1, considered compliant

* Maximally Exposed Off-Site Individual.

2025 Compliance Results

WVDP was fully compliant with all environmental compliance guidelines

On-Site Air [rad]

- Annual average concentrations of all isotopes (μCi/mL) were multiple orders of magnitude lower than the DOE DCSs

Off-Site (Ambient) Air [rad]

- The highest ratio against the NESHAP concentration limit based on the annual concentration averages was < 0.046 (N direction)

Surface Water [rad]

- No exceedance of DOE DCS concentrations. Sum of ratios at Outfall 001 was 0.29

NYS SPDES (surface water discharge) [non-rad]

- No exceedance of State permit limits

2025 Results (Annual Dose)

- Dose estimates account for multiple pathways (e.g., inhalation, ingestion, external exposure)
- WVDP was fully compliant with all environmental compliance guidelines
- For dose calculations, EPA- or DOE-approved dose modeling software is used
- During the Main Plant Process Building deconstruction, no exceedances of regulatory limits/standards occurred

Exposure Pathways	Critical Receptor (Air)/ MEOSI (Water)	Comparison to EPA and DOE Standards	Comparison to Natural Background (310 mrem/year)	Estimated Collective Population Dose (50 miles/80 km radius)
Airborne Releases	0 mrem (0 mSv)	0 % of 10 mrem/year EPA Standard	0 %	0 person-rem (0 person-Sv)
Waterborne Releases	0.009 mrem (0.00009 mSv)	No EPA/DOE Standard	0.003 %	0.1 person-rem (0.001 person-Sv)
Total	0.009 mrem (0.00009 mSv)	0.009 % of 100 mrem DOE Standard	0.003 %	0.1 person-rem (0.001 person-Sv)

For more details of the WVDP Environmental Monitoring Program and 2025 monitoring results, please refer to the 2025 Annual Site Environmental Report at →

QUESTIONS?

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