

Operational Period # 24

- On February 3rd, water evaporation operations commenced with the expectation of 24 / 7 operations. The system will come off line after 129 hours of operations for evaluation. The Encon manufacturer completed a bench test and we expect the evaporator to be ~97% efficient at reducing the water volume. At the end of each run, the concentrate which has been collected within the bottom of the evaporator, will be collected and prepared for stabilization, as needed, and disposal. This concentrate will be considered F032 waste and added to the Waste Stream (WS) 5.0 water 50/50 Creo Penta low BTU and disposed appropriately.
- Finalized the installation of the abatement containment system which was inspected by EPA, USCG, and LRAPA. A few health and safety modifications were made during the evaluation.
- On February 6, asbestos abatement activities commenced on Retort 83. USCG will support EPA in evaluating H&S procedures and make periodic entries into the containment
- Demolition operations continued in DU03 on T-09, T-31, T-32, and T-41
- Due to an increased volume of sludges, an additional storage area has been established under the dry storage shed next to the demolished tanks holding area on the west side of the property.
 - EPA is currently storing an estimated 700 tons of stabilized sludge.
- On February 7, EPA met with ODEQ Hazardous Waste (HAZWASTE) inspector to discuss strategies to prepare and send off metal (tanks, pipes, etc) that may have been in contact with Pentachlorophenol and other wastes from the processing areas, for recycling and disposal.

Unmanned Aerial Systems (UAS) Activities:

UAV operations were conducted during this Ops Period - A compiled mosaic consisting of three flights focusing on DU03 and the retort area was collected and used to update the Tank Status Map. Additional flights were made to support the H&S of the abatement activities and ensure stabilization of the abatement containment.

Monitoring, Sampling, and Analysis

- Six asbestos air samples were collected by EPA. Samples were taken at the entrance and downwind of the containment area, Thursday (2/6/25) through Saturday (2/8/2025).
- Additional samples have been collected by the abatement contractor within and outside the containment area.
- Air monitoring continued at AM03, AM10, and AM13 locations.

Below are the analytical results from the water collected from within the secondary containment. EPA attempted to treat the water onsite for off site discharge, but sampling results did not support that action (Sample ID 11202452 and 11202453). The sample results from Sample ID 1202578 and 1202579 demonstrate continued flushing of the system as EPA continues removal activities throughout the raining

season. This water is continued to be held for evaporation - see below for process metrics.

Metals Results for Stormwater Retained

Method: EPA 200.8		Sample ID	11202452	11202453	1202578	1202579
Analyte	CAS NO.	Location ID	JHBSW01	JHBSW02	JHBSW03	JHBSW04
		Location Description	Post-Water Treatment	Pre-Water Treatment	Untreated water From Frac Tank	
		Units	11/18/2024	11/18/2024	1/16/2025	1/16/2025
Arsenic	7440-38-2	(µg/L)	860	2700	1800	1200
Chromium	7440-47-3	(µg/L)	1.2	2.2	3.6	3.1
Copper	7440-50-8	(µg/L)	340	1700	1400	620
Lead	7439-92-1	(µg/L)	4.9	6.4	5.6	3.1
Zinc	7440-66-6	(µg/L)	270	2700	1400	980

Note: Bold type indicates the sample result is above the method detection limit.

Key:

CAS = Chemical Abstract Service.

µg/L = micrograms per liter.

[Tank and air monitoring status viewer](#)

Particulate Air Monitoring Data (DusTrak) February 3-8, 2025

Date	Air Monitoring Station	Total Run Time	Min (mg/m ³)	Max (mg/m ³)	Average (mg/m ³)	Max TWA	Percent of Readings Exceeding 0.07 mg/m ³
2/3/2025	AM03	9:36	0	1.04	0.009	0.009	0.4%
	AM10	9:36	0	0.064	0.006	0.006	0.0%
	AM03	9:30	0.002	0.899	0.018	0.020	0.1%
2/4/2025	AM10	9:30	0.002	0.061	0.018	0.019	0.0%
	AM13	8:30	0	0.063	0.028	0.029	0.0%
	AM03	8:33	0	0.128	0.001	0.001	0.2%
2/5/2025	AM10	8:33	0	0.087	0.001	0.000	0.0%
	AM13	8:56	0	0.03	0.004	0.004	0.0%
	AM03	9:46	0.005	0.045	0.012	0.018	0.0%
2/6/2025	AM10	9:46	0.005	0.845	0.013	0.021	0.2%
	AM13	9:31	0	0.089	0.021	0.000	0.1%
	AM03	9:54	0.001	0.36	0.007	0.016	0.3%
2/7/2025	AM10	9:54	0	0.473	0.012	0.012	2.6%
	AM13	9:17	0	0.075	0.01	0.011	0.1%
	AM03	8:33	0	0.022	0.002	0.002	0.0%
2/8/2025	AM10	8:33	0	0.357	0.003	0.004	0.3%
	AM13	8:17	0	0.036	0.004	0.000	0.0%

Notes:

VOC Air Monitoring Data (AreaRAE) February 3-8, 2025

Date	Air Monitoring Station	Total Run Time	VOC Min (ppb)	VOC Max (ppb)	Average (ppb)	Percent of Readings Exceeding 5 ppm
2/3/2025	AM03	8:46	0	90	36	0%
	AM10	8:46	164	355	243	0%
	AM03	8:41	16	48	35	0%
2/4/2025	AM10	8:41	63	299	133	0%
	AM13	8:41	98	119	107	0%
2/5/2025	AM03	8:50	36	56	47	0%
	AM10	8:50	9	466	195	0%
2/6/2025	AM03	9:28	45	59	51	0%
	AM10	9:28	91	323	200	0%
2/7/2025	AM03	9:14	18	49	39	0%
	AM10	9:14	0	367	154	0%
2/8/2025	AM03	8:08	47	67	59	0%
	AM10	8:08	174	477	229	0%

Notes:

NH3 Air Monitoring Data (AreaRAE) February 3-8, 2025

Date	Air Monitoring Station	Total Run Time	NH ₃ Min (ppm)	NH ₃ Max (ppm)	Average (ppm)	Percent of Readings Exceeding 25 ppm
2/3/2025	AM03	8:46	0	0	0	0%
	AM10	8:46	0	0	0	0%
	AM03	8:41	0	0	0	0%
2/4/2025	AM10	8:41	0	0	0	0%
	AM13	8:41	0	0	0	0%
2/5/2025	AM03	8:50	0	0	0	0%
	AM10	8:50	0	0	0	0%
2/6/2025	AM03	9:28	0	0	0	0%
	AM10	9:28	0	0	0	0%
2/7/2025	AM03	9:14	0	0	0	0%
	AM10	9:14	0	1	0.003	0%
2/8/2025	AM03	8:08	0	0	0	0%
	AM10	8:08	0	0	0	0%

Notes:

2.1.3 Progress Metrics

Tank Status Map:



Water Storage and Evaporation:

The volume concentrate is collected and added to WS 5.0 for disposal

Water evaporation began at approximately 14:20 on 2/3/25.

Week Ending	Run Time	Volume Evaporated	Volume Retained	Available Storage Capacity	Volume Concentrate
02/08/2025	129 hrs	8,377 gal	225,623 gal	68,377 gal	425 gal
02/01/2025	0 hrs	0 gal	234,000 gal	60,000 gal	0 gal
Running Total	129 hrs	8,377 gal	225,623 gal	68,377 gal	425 gal

Key:
N/A= Not Applicable. No water has been processed at this time.
gal = Gallons
hrs = Hours

Disposal:

- ACM Rolloff boxes:0
- RCRA Rolloff boxes: 0
- Non RCRA Rolloff boxes:
 - 1 box of non-ACM material