

Operational Period # 13

- Transported and disposed of 13 truckloads liquid waste from Site. (See Progress Metrics)
- Completed demolition of the ACZA chemical storage shed.
- Continued treatment of sludges.
- Continued to receive equipment for water treatment system.
- T-16, T-17, and T18 which contains Alkaline Copper Quaternary (ACQ) was designated as WS-10 due to arsenic concentrations.
- Liquids from T-16, T-17 and T-18 have been pumped out and sent off from disposal. An estimated 1,000-gallons remaining according to tank gauging. Remaining contents will be placed in poly totes and stored separately from ACZA.
- Removed liquid contents of T-35 and placed into poly tote. Contents are suspected to be arsenic acid. Sludge remains in the bottom of the tank. T-35 was moved to opposite side secondary containment to make space for further DU02 demolition activities. Work was conducted in Level B PPE on supplied air.
- Began sludge removal from T-12 using air mover. Confined space entry was required and permitted to conduct work. Air monitoring was conducted during entry.
- Conducted additional demolition of Retort 85 to allow access to the underlying sump which, is critical to operating water treatment systems.
- T-12 prepped for excavation of hardened sludge by cutting a port large enough to accommodate a mini-excavator into the west side of the tank.

Unmanned Aerial Systems (UAS) Activities:

- No activity during this operational period

Monitoring, Sampling, and Analysis

- Continued to deploy air monitoring on the site perimeter and in work areas during active operations. This included monitoring at AM03 near the site entrance, as well as at AM07, and AM10 for work zone monitoring.
- Due to the persistent rains, the particulate monitors were not deployed at times, specifically during heavy rain events.
- No air samples were collected this week.
- The inside atmosphere of T-35 was screened with Draeger X-act 7000 and MicroTubes for Hydrogen fluoride (HF) gas and a Draeger X-act 5000 equipped

with colorimetric tubes was used for HNO₃ gas and HCL gas. None of the gases were detected.

- Air monitoring conducted on T-11 and T-12 during sludge removal activities to support confined space entry.

Tank and air monitoring status viewer

Particulate Air Monitoring Data (DusTrak) October 28-November 2, 2024							
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
10/28/2024	AM03	9:36	0	0.082	0.002	0.003	0.0%
	AM07	9:36	0.004	0.052	0.006	0.009	0.0%
10/29/2024	AM03	10:27	0	0.089	0.008	0.017	1.1%
	AM07	10:27	0	0.049	0.02	0.005	0.0%
10/30/2024	AM03	8:46	0	0.08	0.008	0.025	0.0%
	AM07	8:46	0	0.195	0.011	0.034	0.0%
10/31/2024	AM03	9:33	0	0.53	0.002	0.002	0.0%
	AM07	9:33	0.003	0.207	0.008	0.008	0.4%
11/1/2024	AM03	9:22	0.001	0.038	0.004	0.005	0.0%
11/2/2024	AM03	8:54	0	3.97	0.014	0.023	4.6%

Notes:

VOC Air Monitoring Data (AreaRAE) October 28-November 2, 2024						
Date	Air Monitoring Station	Total Run Time	VOC Min (ppb)	VOC Max (ppb)	VOC Average (ppb)	Percent of Readings Exceeding 5 ppm
10/28/2024	AM03	9:26	0	42	19	0%
	AM07	9:26	487	738	629	0%
	AM10	9:26	200	248	225	0%
10/29/2024	AM03	9:24	0	17	1	0%
	AM07	9:24	0	349	171	0%
	AM10	9:24	0	95	26	0%
10/30/2024	AM03	8:42	17	44	32	0%
	AM07	8:42	147	355	257	0%
	AM10	0:00	249	305	279	0%
10/31/2024	AM03	9:28	64	89	77	0%
	AM07	9:28	360	697	492	0%
	AM10	9:28	397	440	416	0%
11/1/2024	AM03	9:08	0	95	21	0%
	AM07	9:08	361	815	526	0%
	AM10	9:08	292	463	369	0%
11/2/2024	AM03	8:13	2	21	11	0%
	AM07	8:13	593	771	670	0%
	AM10	8:13	385	440	417	0%

Notes:

NH ₃ Air Monitoring Data (AreaRAE) October 28-November 2, 2024						
Date	Air Monitoring Station	Total Run Time	NH ₃ Min (ppm)	NH ₃ Max (ppm)	NH ₃ Average (ppm)	Percent of Readings Exceeding 25 ppm
10/28/2024	AM03	9:26	0	0	0	0%
	AM07	9:26	0	0	0	0%
	AM10	9:26	0	0	0	0%
10/29/2024	AM03	9:24	0	0	0	0%
	AM07	9:24	0	0	0	0%
	AM10	9:24	0	0	0	0%
10/30/2024	AM03	8:42	0	1	0.281	0%
	AM07	8:42	0	1	0.001	0%
	AM10	8:42	0	1	0.004	0%
10/31/2024	AM03	9:28	0	0	0	0%
	AM07	9:28	0	0	0	0%
	AM10	9:28	0	0	0	0%
11/1/2024	AM03	9:08	0	0	0	0%
	AM07	9:08	0	0	0	0%
	AM10	9:08	0	0	0	0%
11/2/2024	AM03	8:13	0	0	0	0%
	AM07	8:13	0	0	0	0%
	AM10	8:13	0	0	0	0%

Notes:

2.1.3 Progress Metrics

Tank Status Map:



Disposal:

Waste Name	Tank#	Profile #	Ship Date	Manifest #	Disposal Qty (lbs)
WS 1.0 Pentachlorophenol 3-6% in oil	T-20	CH2793166	8/14/2024	019433223FLE	16,600
WS 1.0 Pentachlorophenol 3-6% in oil	T-20	CH2793166	8/14/2024	019433219FLE	38,940
WS 1.0 Pentachlorophenol 3-6% in oil	T-20	CH2793166	8/14/2024	019443224FLE	32,200
WS 1.0 Pentachlorophenol 3-6% in oil	T-20	CH2793166	8/15/2024	019433225FLE	38,640
WS 1.0 Pentachlorophenol 3-6% in oil	T-20 & 25	CH2793166	8/16/2024	019433226FLE	36,000
WS 1.0 Pentachlorophenol 3-6% in oil	T-25	CH2793166	8/16/2024	019433227FLE	33,220
WS 1.0 Pentachlorophenol 3-6% in oil	T-25	CH2793166	8/16/2024	019433228FLE	27,380
WS 1.0 Pentachlorophenol 3-6% in oil	T-25	CH2793166	8/19/2024	019433229FLE	37,640
WS 1.0 Pentachlorophenol 3-6% in oil	T-20 & 25	CH2793166	8/20/2024	019433230FLE	39,360
WS 1.0 Pentachlorophenol 3-6% in oil	T-25	CH2793166	8/20/2024	019433231FLE	40,340
WS 1.0 Pentachlorophenol 3-6% in oil	T-25	CH2793166	8/21/2024	019433215FLE	38,940
WS 1.0 Pentachlorophenol 3-6% in oil	T-20 & 25	CH2793166	8/22/2024	019433232FLE	41,960
WS 1.0 Pentachlorophenol 3-6% in oil	T-25	CH2793166	8/23/2024	019433233FLE	37,000
WS 1.0 Pentachlorophenol 3-6% in oil	T-25/Retort 81	CH2793166	8/23/2024	019433234FLE	37,180
WS 4.0 Creosote/Penta	T-4	CH2808188	8/26/2024	019298949FLE	40,820
WS 1.0 Pentachlorophenol 3-6% in oil (Off-spec)	20 A & B	CH2793166	8/27/2024	019433235FLE	41,100
WS 4.0 Creosote/Penta	T-4	CH2808188	8/28/2024	019298948FLE	39,160
WS 1.0 Pentachlorophenol 3-6% in oil	20-B/Retort 81/Totes	CH2793166	8/28/2024	019433236FLE	20,900
WS 4.0 Creosote/Penta	T-4	CH2808188	8/29/2024	019298944FLE	40,480
WS 4.0 Creosote/Penta	T-4	CH2808188	8/29/2024	019298945FLE	41,120
WS 4.0 Creosote/Penta	T-4	CH2808188	8/30/2024	019298946FLE	38,000
WS 4.0 Creosote/Penta	T-4	CH2808188	8/30/2024	019298947FLE	41,620
WS 4.0 Creosote/Penta (off-spec low btu <500)	T-4	CH2808188	9/3/2024	019298925FLE	39,140
WS 4.0 Creosote/Penta	T-4 & T-2	CH2808188	9/3/2024	019298926FLE	38,900
WS 4.0 Creosote/Penta	T-2	CH2808188	9/3/2024	019298927FLE	42,360
WS 4.0 Creosote/Penta	T-2	CH2808188	9/5/2024	019298928FLE	37,560
WS 4.0 Creosote/Penta	T-2	CH2808188	9/17/2024	019298929FLE	39,960
WS 4.0 Creosote/Penta	T-2	CH2808188	9/19/2024	019298930FLE	40,480
WS 4.0 Creosote/Penta	T-2	CH2808188	9/20/2024	019298931FLE	35,740
WS 4.0 Creosote/Penta (low btu, CH notified)	T-7	CH2808188	9/23/2024	019298932FLE	25,500
WS 4.0 Creosote/Penta	T-2 & T-7	CH2808188	9/23/2024	019298933FLE	40,660
WS 5.0 Water 50/50 Creo/Penta Low BTU	500 bbl Close Top	CH2797074	9/3/2024	019298950FLE	39,380
WS 5.0 Water 50/50 Creo/Penta Low BTU	500 bbl Close Top # 4	CH2797074	9/19/2024	019298951FLE	32,580
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-1/500 bbl Tank 4	CH2797074	9/25/2024	019298952FLE	37,960
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-26	CH2797074	9/26/2024	019298953FLE	40,960
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-26	CH2797074	9/30/2024	019298955FLE	28,920
WS 4.0 Creosote/Penta	T-26	CH2808188	9/30/2024	019298934FLE	39,100
WS 4.0 Creosote/Penta	T-27	CH2808188	9/30/2024	019298936FLE	41,700
WS 4.0 Creosote/Penta	T-27	CH2808188	9/30/2024	019298937FLE	30,520
Rejected 10/7/24 due to high sludge-WS 5.0 V	T-26	CH2797074	10/2/2024	019298956FLE	-
Rejected 10/7/24 due to high sludge-WS 5.0 V	T-27&500 bbl	CH2797074	10/3/2024	019298957FLE	-
WS 5.0 Water 50/50 Creo/Penta Low BTU	500 bbl Close Top # 4	CH2797074	10/3/2024	019298958FLE	29,480
WS 5.0 Water 50/50 Creo/Penta Low BTU	500 bbl Close Top # 4	CH2797074	10/3/2024	019298959FLE	30,040
WS 5.0 Water 50/50 Creo/Penta Low BTU	Frac	CH2797074	10/8/2024	019298960FLE	37,540
WS 5.0 Water 50/50 Creo/Penta Low BTU	Frac	CH2797074	10/8/2024	019298961FLE	39,220
WS 5.0 Water 50/50 Creo/Penta Low BTU	Frac#2,T-9	CH2797074	10/11/2024	019298962FLE	39,140
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/14/2024	019298963FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/15/2024	019298964FLE	40,020
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/17/2024	019298965FLE	38,000
WS 4.0 Creosote/Penta	Frac 1 South	CH2808188	10/18/2024	019298938FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/21/2024	019298967FLE	35,500
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/21/2024	019298969FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/22/2024	019298966FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/25/2024	019298970FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/25/2024	019298968FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/29/2024	019298971FLE	40,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/30/2024	019298974FLE	39,000
WS 5.0 Water 50/50 Creo/Penta Low BTU	T-9	CH2797074	10/31/2024	019298972FLE	40,000
Totals through Operational Period #13					2,077,960
Waste Name	Tank#	Profile #	Ship Date	Manifest #	Disposal Qty (gal)
WS 10.0 ACZA Solutions	12	OR 360347	8/26/2024	018963591FLE	3,451
WS 10.0 ACZA Solutions	12	OR 360347	8/27/2024	018963592FLE	3,811
WS 10.0 ACZA Solutions	12	OR 360347	8/28/2024	018963593FLE	4,069
WS 10.0 ACZA Solutions	12	OR 360347	9/17/2024	018963595FLE	3,500
WS 10.0 ACZA Solutions	12	OR 360347	9/18/2024	018963596FLE	4,000
WS 10.0 ACZA Solutions	12	OR 360347	9/19/2024	018963597FLE	4,000
WS 10.0 ACZA Solutions	Frac Tank 1	OR 360347	10/15/2024	018963598FLE	4,700
WS 10.0 ACZA Solutions	Frac Tank 1	OR 360347	10/16/2024	018963599FLE	4,700
WS 10.0 ACZA Solutions	Frac Tank 1	OR 360347	10/17/2024	018963600FLE	4,100
WS 10.0 ACZA Solutions	Frac Tank 1	OR 360347	10/18/2024	019380601FLE	4,100
WS 10.0 ACZA Solutions	Frac Tank 1	OR 360347	10/21/2024	019380604FLE	4,600
WS 10.0 ACZA Solutions	Frac Tank 1&2	OR 360347	10/22/2024	019380605FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 1&2	OR 360347	10/23/2024	019380606FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 2	OR 360347	10/24/2024	019380602FLE	4,450
WS 10.0 ACZA Solutions	Frac Tank 2	OR 360347	10/25/2024	019380603FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 2	OR 360347	10/28/2024	019380607FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 2	OR 360347	10/28/2024	019380608FLE	4,000
WS 10.0 ACZA Solutions	Frac Tank 3	OR 360347	10/29/2024	019380609FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 3	OR 360347	10/29/2024	019380610FLE	3,700
WS 10.0 ACZA Solutions	Tank 16	OR 360347	10/30/2024	019380611FLE	4,500
WS 10.0 ACZA Solutions	Tank 16	OR 360347	10/30/2024	019380612FLE	3,700
WS 10.0 ACZA Solutions	Tank 16	OR 360347	10/31/2024	019380613FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 3	OR 360347	10/31/2024	019380614FLE	3,700
WS 10.0 ACZA Solutions	Frac Tank 3	OR 360347	11/1/2024	019380615FLE	4,500
WS 10.0 ACZA Solutions	Frac Tank 3	OR 360347	11/1/2024	019380616FLE	3,700
Totals through Operational Period #13					104,281