



# Avon Lake

**ENVIRONMENTAL REDEVELOPMENT GROUP, LLC.**

January 2024 Update





# Safety

- 58260 Accident-Free Hours since 3-10-2023.
- Security issues. No trespassers seen but have had a few repeated cuts in the fence along Miller Rd park. Quiet thru the extended holiday break.
- ALERG Safety Committee meets bi-weekly. Sponsored a Thanksgiving meal.
- ALERG & Trifecta all have fulltime on-site safety representatives
- Task specific Work Plans are reviewed & approved by site team prior to start of new work
- All vendors have a Hazardous Communication Program and conduct morning safety tailgate meetings
- 15 on-site workers are First Aid & CPR trained
- Demolition area is encircled with red barrier tape with spotters in the area.
- ALERG team members conduct monthly a minimum of 10 safety inspections of contractors recording a minimum of 10 unsafe acts/conditions.
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# Environmental Risk Reduction



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- ✓ Underground tunnel sealing/ pathway closures – Complete
- ✓ Off-site coal removal – Complete
- ✓ Off-site asbestos removal – Complete
- ✓ Plant-wide Pb dust vacuuming and off-site disposal – Complete
- ✓ Off-site removal/disposal of rad source material - Complete
- ✓ Substantial reduction in NPDES industrial process/stormwater discharges
- ✓ Universal Waste (Hg-containing devices) removed off-site—IP – 85%
- ✓ Off-site fly ash removal – IP – 90% complete
- ✓ Off-site transformer oil removal – Complete
- ✓ Achievement of Ohio VAP risk-based standards for soil and groundwater  
– In Process
- ✓ Chemical removal and flushing of lines – Complete

# Permanent Removal of Hazardous Substances

Item	Quantity to December 2023
Lead-contaminated dust removal	128 tons
Asbestos removal	2,700 tons
Transformer oil and Used oil	147,112 gallons
Petroleum removal	23,900 gallons
Low level radioactive sources	76 units
Flyash removal	3557 tons
Coal reclaimed	36,000 tons
RR Ties recycled	95 tons
Ammonia removal	1155 gallons
Caustic removal	18125 pounds
Sulfuric acid removal	6600 pounds
Arsenic impacted soil	198 tons
Batteries	312 units



## Short Term Low Level Mercury (LLM) NPDES Excursion – May 2023



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- ☐ We had a single low-level parts per trillion (ppt) mercury monthly average exceedance following a storm event in early May 2023. The event caused our monthly average to be 4.878 ng/l, which exceeded the monthly average NPDES permit limit of 2.6 ng/l or parts per trillion (ppt).
- ☐ None of the samples collected in May 2023 exceeded the daily maximum limit of 1,700 ng/l (ppt).
- ☐ None of the samples exceeded the USEPA National Primary Drinking Water Regulations of 2,000 ng/L (ppt) for Mercury
- ☐ Ohio EPA was immediately notified and indicated our response action was satisfactory.
- ☐ The screen shot that was presented at the November 2023 City Council meeting reports violations across the Quarter (April through June). We did not have a violation in April or June.



## Alerg Remedy to Short Term (LLM) NPDES Excursion – May 2023



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- ❑ Following the LLM excursion in May 2023, ALERG staff consulted with multiple contractors to develop a plan to return to and maintain compliance in the future.
- ❑ ALERG procured Applied Specialties Inc. to evaluate potential treatment additives specifically designed for mercury treatment utilizing existing on-site clarifiers.
- ❑ ALERG conducted isotherm testing to determine the most effective activated carbon treatment for ALERG's site specific stormwater.
- ❑ ALERG has brought in a portable activated carbon treatment unit designed to treat low level mercury. It is set-up and ready to operate once Ohio EPA provides the permit to operate. Ohio EPA inspected the system on 10/26/23 and is ready to issue the permit. Other than the minor monthly averaging exceedance at outfall 002 in May, we have not had an NPDES/Clean Water Act violation since ALERG took ownership of the site.
- ❑ The City and the public can and should be assured that we are maintaining full compliance and are highly responsive to any “upset” conditions that may arise in this complex demolition work.



# Demolition

- **Completed Demolition to Date:**
  - Demolition of coal yard structures & conveyors has been completed
  - Demo of U9 precipitator building, package boilers, stores/maintenance shop, U1-6 Generators and the Combustion Turbine.
  - Lake Erie plant intake and discharge have been closed off
  - Complete power shutdown on May 22, 2023
  - Transmission line removal completed on May 21, 2023
- Removal of U9 Flyash from Silos & silo demo is also complete.
- Demo of the back road is 90% done.



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# Demo – East Side



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# Demo West Side



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# Demolition



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## Equipment Implosion Schedule

### Equipment

### Date

Precipitator #6 & #7

**Late February 2024 – NA\***

U8 Stack

Mid May 2024

Precipitator #8

Late May 2024

Boiler 10

Mid October 2024

Boiler 11

Early December 2024

Boiler 12

Late January 2025

U9 Stack

Early March 2025





# Other – Multi Use Trail is Essentially Complete



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## Other: Stormwater Re-direct from the Former Coal Yard Pond



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- Our coal yard cleanup eliminated the sources of stormwater pollutants in the yard that required the NPDES permit.
- We are operating the Yard under NPDES Construction Site Stormwater General Permit until the treatment building & pond platform is demolished.
- Ohio EPA acknowledged we are no longer permitting the outfall from the pond.
- Bramhall design BMP's were reviewed/approved by the City and were constructed to meet the City of Avon Lake MS4 permit requirements.
- Ohio EPA inspectors from the stormwater group were on site on 10/26/23 and conducted a thorough compliance inspection of the coal yard and powerplant site.



# Other: Stormwater Tie In is Complete



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# Avon Lake Project Schedule



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Activity Description	Actual/Planned Start	Actual/Planned Finish
Close on the Property	4/4/22 (A)	
Power Station Demolition	4/4/22 (A)	4/15/25
Asbestos Abatement	4/25/22 (A)	6/16/23(A)
Asset Recovery/Salvage	6/20/22 (A)	12/31/23
Plant-Wide Demolition	4/4/22 (A)	4/15/25
Coal Recovery	5/31/22 (A)	1/26/23 (A)
Plant Site Remediation	8/8/22 (A)	6/30/25
Site Restoration Complete		8/31/25





# Community



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- Working with the Avon Lake Historical Society in obtaining plant drawings and blueprints.
- ALERG Giving Tree – Workers at the plant provided Christmas wish fulfillment for 20 children in the area.
- Diamond sponsor for Community Resource Services Charity Ball.
- Retrieval of Plant artifacts.



# East Side Demo Overview



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