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Subject: [EXTERNAL] Arconic TN Ops - North Plant - Outfall 001 Basin Maintenance Update
Date: Thursday, September 1, 2022 6:01:18 AM
Attachments: [image001.png](#)

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Good Morning, Mr. Janjic, Mr. Webber, and Mr. Brooks,

On behalf of Arconic, I am providing this e-mail to update you on the Outfall 001 Basin Maintenance project at the Tennessee Operations – North Plant. Arconic has hired a third-party contractor, O6 Environmental, LLC, to perform the Outfall 001 basin cleaning on its behalf. This cleaning effort will start next week with the mobilization of personnel, equipment, and materials to the site from September 6 through September 8.

Before cleaning, the basin will first be isolated by closing valves and installing inflatable packers in the storm sewer system near outfalls 01E and 01S. This action will divert normal flow from the Outfall 001 basin to these outfalls, as allowed under the terms of the NPDES permit. Arconic will perform routine NPDES compliance monitoring at Outfalls 01E and 01S while the 001 Basin is isolated for maintenance.

Dewatering of the basin is scheduled to start as early as Friday, September 9. The plan is to pump retained basin water through a series of bag filters and granular activated carbon before temporarily storing it in frac tanks. The water in each frac tank will be sampled for analytical testing to confirm compliance with the NPDES permit limits for Outfall 001 before discharge. Please see the table below that summarizes the parameters, analytical testing methods, and NPDES permit limits that will be applied on the containerized water. After dewatering, the sediment from the basin will be suctioned into vacuum trucks for transport to the Waste Management Chestnut Ridge Landfill for solidification and disposal.

Parameter	Method ID	Limit	Units
Aluminum	200.7	3.9	mg/L
Chlorine, total residue (TRC)	Field	0.012	mg/L
Chromium, hexavalent (as CR)	SM 3500 CR B	0.010	mg/L
Chromium, total (as Cr)	200.7	N/A	mg/L
Chromium, trivalent (as Cr)	SM 3500 CR D	0.67	mg/L
Cyanide, free (amen. to chlorination)	OIA 1677	0.005	mg/L
Cyanide, total (as CN)	335.4	N/A	mg/L
Oil & Grease	1664B	10	mg/L
Oxygen, dissolved (DO)	Field	5	mg/L
Polychlorinated biphenyls (PCBs)	EPA 608.3	0.1	µg/L
Total Suspended Solids (TSS)	SM 2540D	40	mg/L
Zinc, total (as Zn)	200.7	0.76	mg/L
pH	Field	6	SU
pH	Field	9	SU
CBOD, 5-day, 20 C	SM 5210B	10	mg/L
Nitrogen, Ammonia total (as N)	EPA 350.1	0.9	mg/L

A pressure washer using potable water will be used to clean the remaining sediment and debris from the basin floor and walls. No surfactant, solvents, or detergents will be used during this final wash. The wash water will be collected and pumped through the filtration system and into frac tanks for storage. A water sample will be collected from each frac tank to confirm NPDES compliance before discharge to Outfall 001, as noted previously. Used bag filters and activated carbon from the filtration system will be drained and dried for waste characterization sampling. This miscellaneous solid waste is anticipated to be managed at Waste Management Chestnut Ridge Landfill. Our current project schedule will have Outfall 001 basin back into service by Friday, September 23.

If you have any questions or concerns regarding the upcoming maintenance activity, please feel free to contact Shane Strickland at shane.strickland@arconic.com.

Thank you,

Matt

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