

**NPDES Permit No. AR0000752  
 El Dorado Chemical Company  
 Outfall 010 Non-Compliance Report  
 December 2023**

All parameters sampled at outfall 010 were within permit limits except for the following:

<b>Parameter</b>	<b>Date</b>	<b>Permit Limit</b>	<b>Sample Result</b>
Nitrogen, ammonia total [as N] Daily Maximum	12/05/23	605 lbs./day	696.90 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	12/06/23	605 lbs./day	630.27 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	12/07/23	605 lbs./day	680.22 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	12/1/23-12/31/23	265.2 lbs./day	437.09 lbs./day
Nitrogen, nitrate total [as N] Monthly Average	12/1/23-12/31/23	581.3 lbs./day	650.03 lbs./day

El Dorado Chemical Company has been implementing additional measures to limit wastewater discharges following the receipt of the August 4, 2023 "Interim Measures" letter and the September 15, 2023 Corrective Action Plan. For a short-term solution, El Dorado Chemical Company has permitted a temporary cooling tower to operate as an ammonia stripper to remove ammonia from Lake Lee, this is a point upstream that directly discharges to Lake Kildeer. The cooling tower became operational on July 21<sup>st</sup>. Additionally, EDC is working to develop plans to reduce the source load at the facility and long-term treatment solutions. EDC adjusted flows to decrease loadings when the risk of overflowing into the emergency spillway was minimal. EDC ran at a reduced discharge rate from December 8-17, 2023, and December 26-31, 2023. In doing so, we limited our daily maximum exceedances to just three days in December. EDC has decreased the average ammonia loading by approximately 81% and average nitrate loading by approximately 67% since July 2023.

## EDCC 2017 Permit Outfall by Outfall Appeal Summary

### Outfall 001:

- Final numerical dissolved mineral concentration limits – Stayed
- Final metals concentration limits (year round) – Stayed
- Critical season (mid-May – mid-Sept) WET limit – Stayed
- Final NH<sub>3</sub>-N concentration limits – Stayed.

### Outfall 002:

- Final numerical dissolved mineral concentration limits – Stayed
- Final metals concentration limits (year round) – Stayed
- Critical season (mid-May – mid-Sept)) chronic biomonitoring– Stayed
- Final NH<sub>3</sub>-N concentration limits – Stayed.
- Interim and final chronic WET testing requirement – Stayed
- Interim and final Total Recoverable Copper, Lead and Zinc limits – Stayed (However no practical effect, limits remain the same as 2007 permit)

### Outfall 003:

- Final numerical dissolved mineral concentration limits – Stayed
- Final NH<sub>3</sub>-N concentration limits – Stayed.
- Interim DO limit – Stayed
- Interim and final zinc report only limit – Stayed

### Outfalls 006 & 007:

- Final numerical dissolved mineral concentration limits – Stayed
- Final NH<sub>3</sub>-N concentration limits – Stayed.
- Interim and final chronic WET testing requirement – Stayed
- Interim and final instantaneous flow monitoring sample type – stayed

### Outfall 010:

- TSS, CBOD, and TP monitoring frequency reduction request to three per week.

### Outfall 101ST:

- Interim NH<sub>3</sub>-N mass limits – Stayed

### Outfall 102ST:

- NH<sub>3</sub>-N mass limits (year round) – Stayed

### Outfall 103ST:

- Numerical dissolved mineral mass limits – Stayed
- NH<sub>3</sub>-N mass limits (year round) – Stayed

### Outfall 104ST:

- Metals concentration limits (year round) – Stayed
- Chronic WET testing requirement – Stayed