

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

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

Parameter	Date	Permit Limit	Sample Result
Nitrogen, ammonia total [as N] Daily Maximum	5/2/23	605 lbs./day	1990.03 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/3/23	605 lbs./day	1989.92 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/4/23	605 lbs./day	1437.20 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/9/23	605 lbs./day	1671.38 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/10/23	605 lbs./day	1658.35 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/11/23	605 lbs./day	2321.81 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/16/23	605 lbs./day	2487.44 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/17/23	605 lbs./day	1575.40 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/18/23	605 lbs./day	2259.53 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/23/23	605 lbs./day	2893.61 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/24/23	605 lbs./day	2202.04 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/25/23	605 lbs./day	2070.31 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/30/23	605 lbs./day	1967.21 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	5/31/23	605 lbs./day	1285.96 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/2/23	1568.3 lbs./day	2155.86 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/3/23	1568.3 lbs./day	2321.58 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/4/23	1568.3 lbs./day	1724.64 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/9/23	1568.3 lbs./day	1823.33 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/10/23	1568.3 lbs./day	1990.02 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/11/23	1568.3 lbs./day	2487.66 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/16/23	1568.3 lbs./day	2487.44 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/17/23	1568.3 lbs./day	2487.47 lbs./day

Parameter	Date	Permit Limit	Sample Result
Nitrogen, nitrate total [as N] Daily Maximum	5/18/23	1568.3 lbs./day	2118.31 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/23/23	1568.3 lbs./day	2284.43 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/24/23	1568.3 lbs./day	2202.04 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/25/23	1568.3 lbs./day	2070.31 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/30/23	1568.3 lbs./day	2118.53 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	5/31/23	1568.3 lbs./day	2143.27 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	5/1/23-5/31/23	265.2 lbs./day	1986.44 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	5/1/23-5/31/23	581.3 lbs./day	2172.49 lbs./day

Due to the numerous rain events over the last several months, the facility has maxed out its ability to reuse and recycle process wastewater streams. This results in elevated NH₃-N and NO₃-N in the storage lagoon. The site is investigating significant stormwater runoff into Lake Killdeer from the upslope areas surrounding Lake Killdeer that are not inside the production area footprint. Solutions to minimize this influent to Lake Killdeer are being evaluated. 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 Killdeer. Additionally, EDC is working to develop plans to reduce the source load at the facility and long term treatment solutions.