



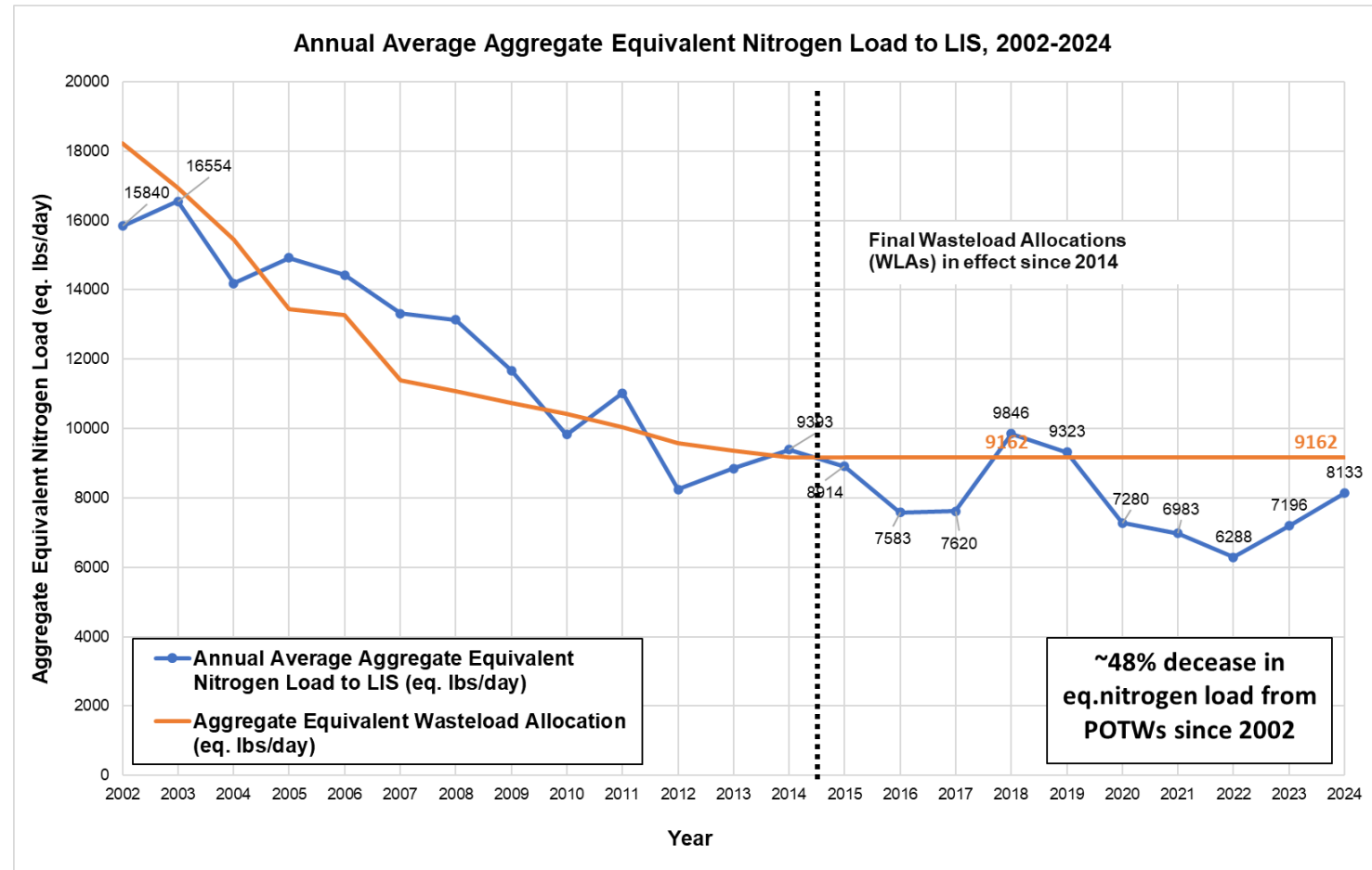
NCAB MEETING

March 12, 2025

Presented by: Iliana Raffa, and Robin Rittgers
Municipal Wastewater
Bureau of Water Protection and Land Reuse

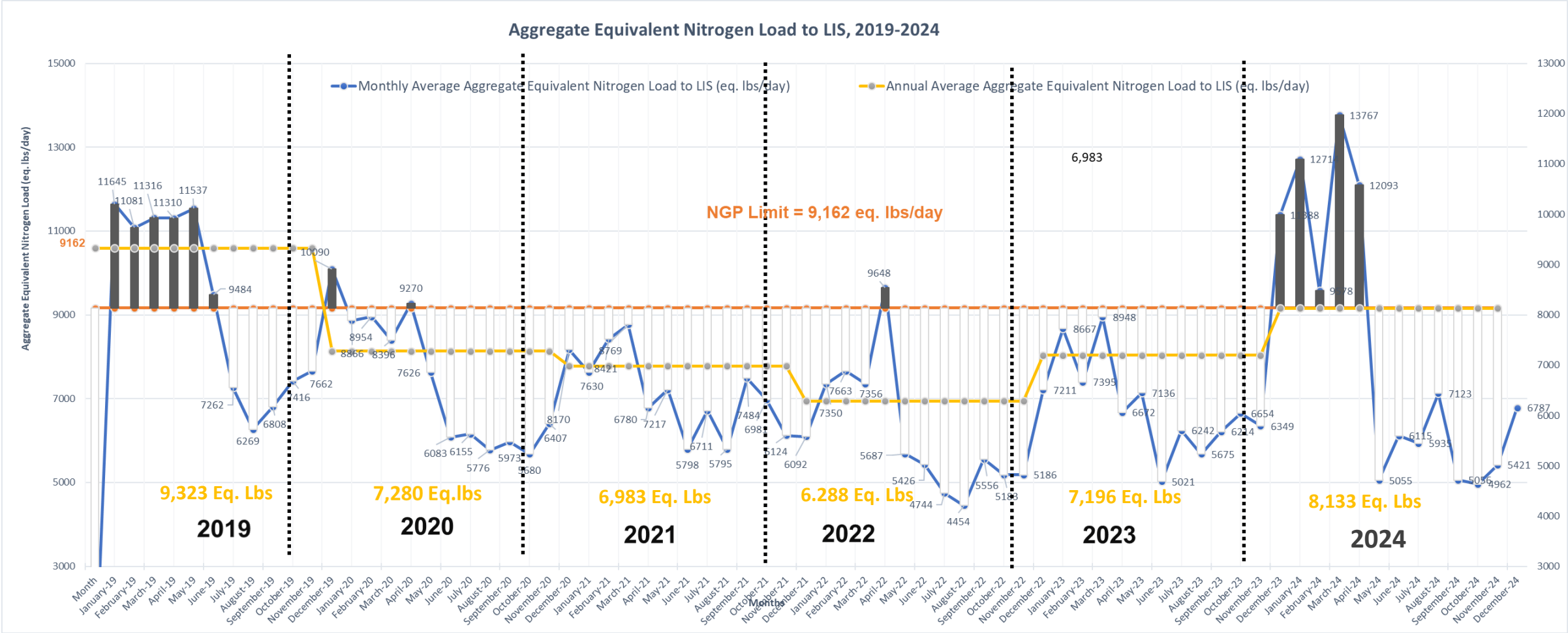
NITROGEN CREDIT EXCHANGE PROGRAM – ACCOMPLISHMENTS

- **Compliance with the final TMDL** limit has been achieved in **8 out of 10 years** since 2014 (when the final limit went into effect)
- Two facilities were purchased by Aquarium: Ansonia WPCF in December 2024 and New Hartford WPCF in January 2024. As both facilities became private, they are no longer eligible to participate in the program.



2019-2024 MONTHLY PERFORMANCE

Aggregate Equivalent Nitrogen Load to LIS, 2019-2024



FINAL 2022 COST NITROGEN CREDIT – DRAFT 2023 COST NITROGEN CREDIT

	2023	2024	
Total Capital Cost:	\$14,946,568 Branford, Fairfield, Torrington pay off the loan	\$14,686.102 Bridgeport East, Bridgeport West, Bristol, Litchfield pay off the loan	These values represent the annual interest and repayment of principal cost on the 2% interest loans
Total O&M Cost of Project Facilities:	\$16,657,608	\$18,121,095	Annual survey to obtain the cost related to nitrogen
Total Project Cost:	\$31,742,616	\$32,807,197	Total Project Cost (\$) = Total Capital Cost + Total O&M Cost

	2023	2024	
Aggregate Eq. Nitrogen per year Reduction from TMDL	6,520,688.5 Eq.lbs	6,190,736.28 Eq. lbs	Equivalent Nitrogen Reduction from TMDL baseline load, calculated for each Project Facility (lbs/day) = (TMDL baseline load – Annual Avg. TN) * Eq. Factor *385 days

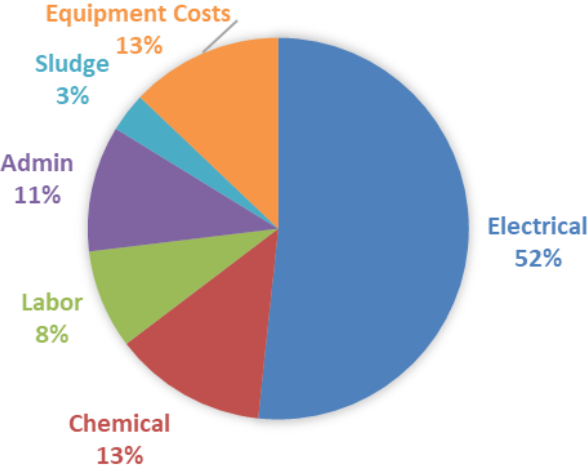
	2023	2024	
Price of Credit for Buyers:	\$4.87	\$5.30	= Total Project Cost / Aggregate Equivalent Nitrogen Reduction
# of facilities buying credits:	28	30	
# of credits bought :	=Total Purchased credits: 361.76 @ \$893,906	= Total purchased credits:1,885.08 @ \$1,671,005	

	2023	2024	
Price of Seller's Credit	\$0.9911226	\$2.42	=(purchased \$892,072) Being shared among sellers credits(2,471.01) /365
#of facilities Selling credits	50	48	
# of credits sold:	=Total Purchased credits: 2,471 eq. lbs. day@ \$893,906	=Total Purchased credits: 861.43@ \$1,671,003	

O&M COSTS BREAKDOWN – 2023 & 2024

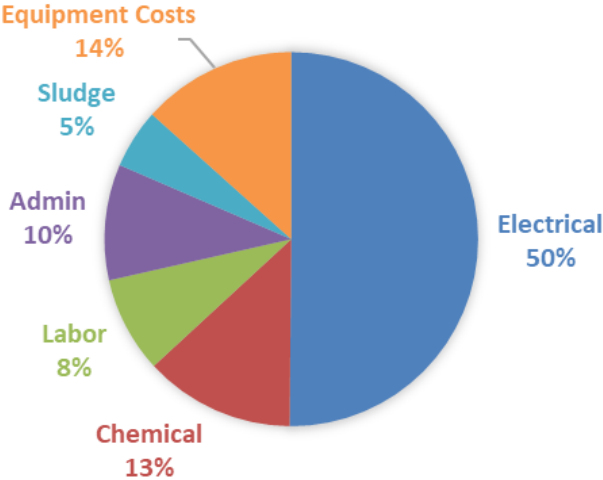
Total Cost Operation and Maintenance: \$16,785,879

2023 COSTS BREAKDOWN



Total Cost Operation and Maintenance: \$18,121,092

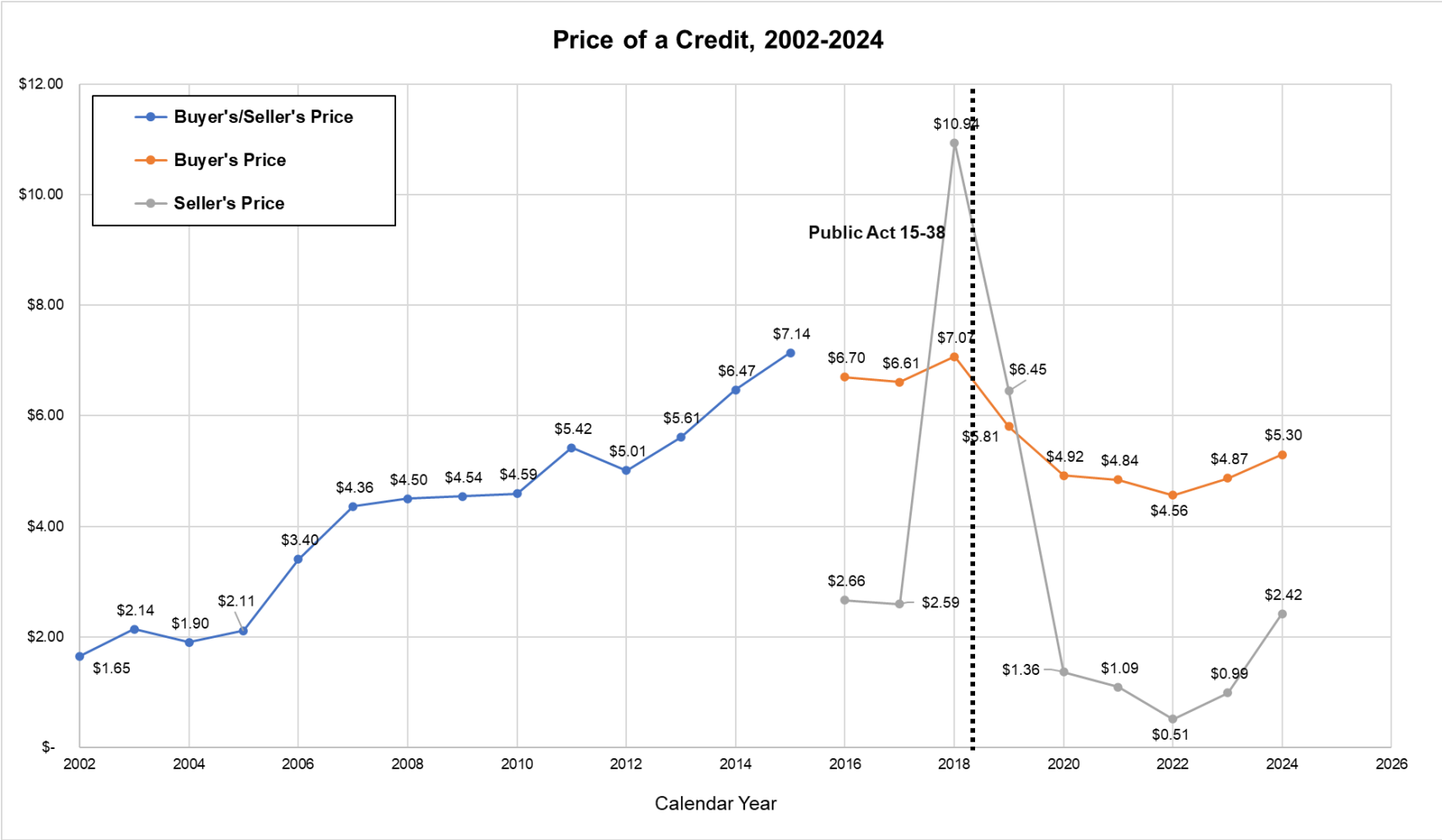
2024 COSTS BREAKDOWN



Equalized Monthly Nitrogen Avg: 7,196 lbs

Equalized Monthly Nitrogen Avg: 8,133 lbs

HISTORY OF NITROGEN CREDIT PRICE



Prior to **Public Act 15-38**, only one credit price was calculated and credits were both bought and sold at that price.

Following **Public Act 15-38**, the sum of money collected from facilities that are required to buy credits to meet their limits is distributed proportionally amongst all facilities selling credits based on how many credits each facility has for sale.

Total money collected from buyers = total money distributed to sellers

MOVING FORWARD

Price of a Credit:

- **Buyer's Price** is expected to continue to decrease slightly over time as Capital Costs decrease
 - Large number of facilities who are finishing paying off their loans
 - Fewer facilities are completing nitrogen reduction projects
- **Seller's Price** is very much dependent on weather
 - Warm, dry weather → lower seller's price
 - Cool, wet weather → higher seller's price
- In 2025, 77 Municipal WPCF are participating in the Nitrogen Credit Exchange Program

What's next for the Nitrogen Credit Exchange Program?

- Revisions to the TMDL?
- Embayment-specific TMDLs?

Tentative Nitrogen Board Meetings

Proposed next NCAB meeting dates:

10/9/2025 at 2:00 p.m. to 3:00 p.m. to discuss USGS proposal; and program update including preliminary balance of buyers and sellers