



# UAB Meeting

Brian McGuire

3/14/2024



# Agenda

- UAB Meeting

1. Letter of Support for Electric Boiler at Mendenhall (5 min) (Ashley/Brian)
2. Cruise Ship Utility Services Overview (10 min) (Brian)
3. Mendenhall WWTP Permit Modifications (5 min) (Brian/Chad)
4. Lead Service LSLI Update (10 min) (Chad)
5. FY25 CIP Resolution (5 min) (Brian)
6. Valley Water Supply Plan during SC Penstock work (20 min) (Chad)



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# Electric Boiler Grant

DATE: March 14, 2024

TO: Chair Campbell and Utility Advisory Board

FROM: Brian McGuire, Utilities Superintendent

SUBJECT: Grant Letter of Support for Electric Boiler at the Mendenhall Wastewater Treatment Plant (MWWTP)

The City and Borough of Juneau is applying for the Climate Pollution Reduction Grant (CPRG) from the Environmental Protection Agency (EPA). If awarded, the funding would be used to upgrade existing infrastructure at the Mendenhall Wastewater Treatment Plant (MWWTP) to replace diesel boilers with electric, significantly reducing Greenhouse Gas Emissions (GHG).

CBJ is requesting that the UAB consider drafting a Letter of Support for this project.

## **Recommendation:**

Option 1: Discuss and draft a Letter of Support for the Climate Pollution Reduction (CPRG) Grant application for the MWWTP Electric Boiler.

OR

Option 2: Make a motion granting a UAB member authority to work with Brian McGuire to draft a Letter of Support for CBJ to send to the EPA in support of the CPRG grant application.



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# Cruise Ship Revenue

- Wastewater
  - Cruise Ships sign Contracts each year
  - Not all Cruise Ships participate
  - Cruiseships pay based upon volume and strength
    - Composite samples are pulled during offload.

## 5. BILLING PROCEDURE

At the end of each calendar month, Cruise Line Agencies of Alaska, on behalf of the Cruise Line, shall prepare (or is responsible to arrange to have prepared) a monthly billing summary that contains the following information for each discharged event:

- 1) Date of the discharge
- 2) Name of the vessel
- 3) Volume of discharge (in gallons)
- 4) BOD concentration (in mg/L)
- 5) Total BOD discharged (in pounds)
- 6) TSS concentration (in mg/L)
- 7) Total TSS discharged (in pounds)
- 8) Charge rate per 1000 gallons (in dollars)
- 9) Total CBJ charge for the discharge event based on the tariff charges in this agreement
- 10) Laboratory results for BOD and TSS



# Cruise Ship Revenue

- Wastewater – Actual Ship WW analysis



641 W. Willoughby Ave., Suite 301 Juneau, AK 99801  
(907) 463 - 4415  
[www.admiraltyenvironmental.com](http://www.admiraltyenvironmental.com)

Graywater Offload

Carnival Cruise Lines

Franklin Dock

**Carnival Miracle**

**September 15, 2023**

## Analytical Report

Admiralty Environmental EPA ID AK 00976

AE 33270

Sample Location	Graywater Offload Composite
BOD (mg/L)	520
TSS (mg/L)	136



# Cruise Ship Revenue

- Wastewater (cont)
  - Base rate (\$/1000 gal) is Commercial metered rate

From 7/1/22 to 6/30/23

Concentration (mg/L)	Tariff (\$ per 1000 gallons)
BOD < 300 and TSS < 350	\$13.56
BOD < 600 and TSS < 700	\$27.12
BOD < 900 and TSS < 1050	\$40.68
BOD < 1200 and TSS < 1450	\$54.24
BOD < 1500 and TSS < 1750	\$67.80
BOD < 1800 and TSS < 2100	\$81.36
BOD < 2100 and TSS < 2450	\$94.92
BOD < 2400 and TSS < 2800	\$108.48
BOD < 2700 and TSS < 3150	\$122.04
BOD < 3000 and TSS < 3500	\$135.60
BOD < 3300 and TSS < 3850	\$149.16
BOD < 3600 and TSS < 4200	\$162.72
BOD < 3900 and TSS < 4550	\$176.28
BOD < 4200 and TSS < 4900	\$189.84

From 7/1/23 to 6/30/24

Concentration (mg/L)	Tariff (\$ per 1000 gallons)
BOD < 300 and TSS < 350	\$13.83
BOD < 600 and TSS < 700	\$27.65
BOD < 900 and TSS < 1050	\$41.48
BOD < 1200 and TSS < 1450	\$55.31
BOD < 1500 and TSS < 1750	\$69.13
BOD < 1800 and TSS < 2100	\$82.96
BOD < 2100 and TSS < 2450	\$96.79
BOD < 2400 and TSS < 2800	\$110.62
BOD < 2700 and TSS < 3150	\$124.44
BOD < 3000 and TSS < 3500	\$138.27
BOD < 3300 and TSS < 3850	\$152.10
BOD < 3600 and TSS < 4200	\$165.92
BOD < 3900 and TSS < 4550	\$179.75
BOD < 4200 and TSS < 4900	\$193.58



# Cruise Ship Revenue

- Wastewater (cont)

2023 ALL SHIPS CHRONOLOGICAL DISCHARGE SUMMARY										
	Date	Receipt No.	Vessel	Volume (gallons)	BOD conc. (mg/l)	BOD (lbs.)	TSS conc. (mg/l)	TSS (lbs.)	Charge Rate per 1000 gal.	Total CBJ Charge
163	9/11/23	23168FKL	Royal Princess	79,593	490	325	103	68	\$27.66	\$2,201.54
164	9/12/23	23169FKL	Grand Princess	85,653	1,000	714	560	400	\$55.32	\$4,738.32
165	9/13/23	23171CT	Nieuw Amsterdam	33,000	760	209	192	53	\$41.49	\$1,369.17
166	9/13/23	23170FKL	Majestic Princess	179,096	540	807	88	131	\$27.66	\$4,953.80
167	9/13/23	23172AS	Discovery Princess	167,775	760	1,063	145	203	\$41.49	\$6,960.98
168	9/14/23	23173CT	Noordam	69,000	570	328	172	99	\$27.66	\$1,908.54
169	9/15/2023	23174FKL	Carnival Miracle	61,392	520	266	136	70	\$27.66	\$1,698.10
170	9/17/23	23176FKL	Sapphire Princess	173,681	530	768	102	148	\$41.49	\$7,206.02
171	9/17/23	23177CT	Ruby Princess	45,925	870	333	356	136	\$41.49	\$1,905.43
172	9/17/2023	23175CT	SS Explorer	23,275	760	148	174	34	\$41.49	\$965.68
173	9/19/23	23178FKL	Majestic Princess	247,318	720	1,485	186	384	\$41.49	\$10,261.22
174	9/20/23	23179FKL	Grand Princess	48,903	1,000	408	522	213	\$55.32	\$2,705.31
175	9/20/23	23180AS	Discovery Princess	160,200	630	842	106	142	\$41.49	\$6,646.70
176	9/21/23	23181CT	Nieuw Amsterdam	41,900	690	241	187	65	\$41.49	\$1,738.43
177	9/22/23	23182FKL	Sapphire Princess	115,897	480	464	131	127	\$27.66	\$3,205.71
178	9/27/23	23184AS	Discovery Princess	136,775	550	627	117	133	\$27.66	\$3,783.20
			<b>AVERAGE</b>	<b>96,301</b>	<b>674</b>	<b>542</b>	<b>189</b>	<b>138</b>	<b>\$37.69</b>	<b>\$3,633.93</b>
			<b>TOTAL</b>	<b>17,141,514</b>		<b>96,484</b>		<b>24,486</b>		<b>\$646,838.97</b>



# Cruise Ship Revenue

- Drinking Water
  - Docks and Harbors re-sells water to the ships.
    - Cruise Ships pay either a flat rate or a metered rate.
    - Not all Cruise Ships participate.
    - Cruise Ships pay either a flat rate or a metered rate.

**Our 2022 water fees for the large cruise ships -**  
Jan 1 2022 – June 30<sup>th</sup>, 2022 \$5.30 per 1,000 gal  
July 1 2022 – Dec 31, 2022 \$5.40 per 1000 gal  
**The smaller ships are not metered and paid a flat fee –**  
Jan 1 2022 – June 30<sup>th</sup>, 2022 \$27.00  
July 1 2022 - Dec 31, 2022 \$28.00  
**Amount collected for water in 2022 from all ships - \$93,051.82**

**Our 2023 water fees for the large cruise ships –**  
Jan 1 2023 – June 30<sup>th</sup>, 2023 \$5.40 per \$1,000  
July 1 2023 – Dec 31, 2023 \$5.50 per \$1,000  
**The smaller ships flat fee**  
Jan 1 2023 – June 30<sup>th</sup>, 2023 \$28.00  
July 1 2023 – Dec 31, 2023 \$28.56  
**Amount collected for water in 2023 for all ships \$125,648.78**



# Cruise Ship Revenue

- CBJ Utility Revenue Summary

<b>Area</b>	<b><u>2022</u></b>	<b><u>2023</u></b>
<b>Water -D&amp;H</b>	<b>\$ 93,051</b>	<b>\$ 125,648</b>
<b>Water -Util</b>	<b>\$ 62,614</b>	<b>\$ 86,427</b>
<b>WW</b>	<b>\$ 439,555</b>	<b>\$ 646,838</b>
<b>Utility total</b>	<b>\$ 502,168</b>	<b>\$ 733,265</b>



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# Lead Service Line Inv



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# Revised Lead and Copper Rule

## Lead and Copper Rule Revisions Service Line Inventory Guidance

On August 4, 2022, EPA released *Guidance for Developing and Maintaining a Service Line Inventory* to support water systems with their efforts to develop inventories and to provide states with needed information for oversight and reporting to EPA. The guidance provides essential information to help water systems comply with the Lead and Copper Rule Revisions requirement to prepare and maintain an inventory of service line materials by October 16, 2024. Specifically, EPA's Lead Service Line Inventory guidance:



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