



# Guam SOLID WASTE RECEIVER



## Presentation to the GSWA Board



March 7, 2024

1:00 PM ChST





# Guam SOLID WASTE RECEIVER



## Discussion Outline

1. Comparison of 2023 vs. 2022 Leachate Volumes
2. Leachate Treatment Costs
3. Status of GWA rebate claim
4. Next Receiver Presentation to GSWA Board
5. Questions?





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## Comparison of 2023 vs. 2022 Leachate volumes

Average Daily Leachate Flow – 2022 and 2023			
	2022	2023	Change
January	90,395	77,542	-14%
February	85,156	32,430	-63%
March	86,472	21,465	-72%
April	89,925	19,817	-78%
May	88,639	23,734	-73%
June	75,703	45,310	-40%
July	120,500	33,368	-72%
August	120,494	51,463	-57%
September	142,922	94,950	-34%
October	163,107	73,197	-55%
November	142,270	37,152	-74%
December	125,533	22,036	-82%
Annual Monthly Average	110,926	44,372	-60%





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## Comparison of 2023 vs. 2022 Leachate volumes (cont'd)

**Table 1. Annual Leachate Volume – 2016 through 2023**

	Annual Volume (gallons)	Average Day Flow (gpd)	Rainfall (inches)
2016	7,501,396	20,440	93.94
2017	8,466,807	23,197	97.17
2018**	18,407,785	50,571	107.69
2019**	22,151,258	60,688	91.96
2020**	27,748,045	75,814	89.12
2021**	28,552,098	78,440	99.89
2022**	41,117,895	112,344	90.07
2023	16,268,570	44,817	140.01*
Annual Average	21,276,732	58,289	101.23

\*Highest recorded annual rainfall.

\*\*Volume influenced by water main leak in Dero Road.



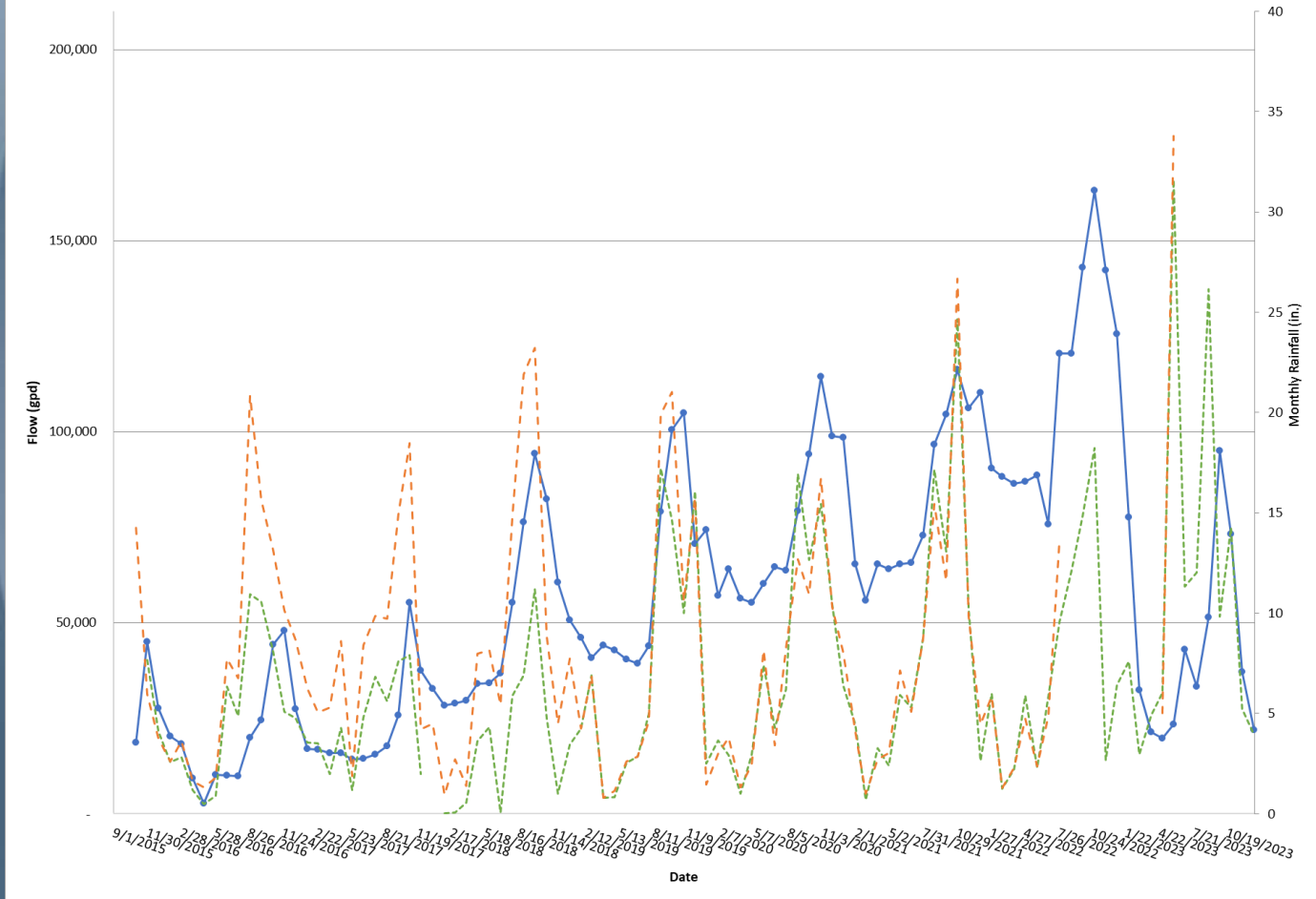


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## Comparison of 2023 vs. 2022 Leachate volumes (cont'd)

Figure - Daily Average Flow and Rainfall by Month Based on GWA Meter ( Through December 2023)





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## Comparison of 2023 vs. 2022 Leachate volumes (cont'd)

### 5.1 Pre-Closure

The analysis for pre-closure was performed for a period of 10 years using an annual average precipitation of 109.62 inches to estimate the amount of leachate that may be generated at the Ordot Dump for a baseline comparison of such to the final closure leachate production values. Average annual percolation rates through the base of the estimated 150-foot-thick municipal solid waste fill has been estimated to be 57,672,900 gallons, with a total peak daily discharge of 620,300 gallons, reference **Tables 5-1, 5-2, and 5-3** for estimates. Please reference Drawing G02 for location of slope length measurements used in estimating the SCS numbers for the pre-closure layout. All data generated by HELP are included in **Attachment 2**.

Brown AND Caldwell

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- Estimated Leachate Discharged to Lonfit River in 2012  
= 57,672,900 Gallons
- Anticipated Leachate Discharged to the Lonfit River in 2024  
= 0 Gallons





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## Leachate Treatment Costs Detry Truck - Costs

Contract year	Month& Year	Total	Comments:
= Year 1 (June 18 through May 19)	Jul	\$ 2,118.60	
	Aug	\$ 4,484.37	
	Sep	\$ 15,102.52	7.4 inches of rain between 8/21 and end of September
	Feb	\$ 3,331.45	
	Mar	\$ 1,286.68	
<b>Year 1 (June 18 through May 19) Total</b>		<b>\$ 26,323.62</b>	
= Year 2 (June 19 through May 20)	Aug	\$ 882.75	
	Sep	\$ 6,691.26	
	Oct	\$ 2,824.80	
	Nov	\$ 4,696.23	
<b>Year 2 (June 19 through May 20) Total</b>		<b>\$ 15,095.04</b>	
= Year 3 (June 20 through May 21)	Aug	\$ 1,165.23	
	Sep	\$ 2,030.33	
	Oct	\$ 2,100.95	
	Nov	\$ 1,165.23	
	May	\$ 622.74	
<b>Year 3 (June 20 through May 21) Total</b>		<b>\$ 7,084.48</b>	
= Year 4 (June 21 through May 22)	Sep	\$ 6,179.25	
	Oct	\$ 41,720.93	27.6 inches of rain between 9/23 and end of October
	Nov	\$ 4,004.15	
<b>Year 4 (June 21 through May 22) Total</b>		<b>\$ 51,904.33</b>	
= Year 5 (June 22 through May 23)	Jul	\$ 2,434.25	
	Aug	\$ 5,842.20	
	Sep	\$ 26,664.40	18.26 inches of rain between 8/22 and end of September
	Oct	\$ 36,475.80	19.4 inches of rain during October
	Nov	\$ 8,463.70	
	Dec	\$ 898.80	GWA line fixed
<b>Year 5 (June 22 through May 23) Total</b>		<b>\$ 80,779.15</b>	
= Year 6 (June 23 through May 24)	Jun	\$ 1,155.00	
	Aug	\$ 1,825.00	
	Sep	\$ 1,787.50	
	Oct	\$ 1,260.00	
<b>Year 6 (June 23 through May 24) Total</b>		<b>\$ 6,027.50</b>	
<b>Grand Total</b>		<b>\$187,214.12</b>	





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## Leachate Treatment Costs (cont'd)

Total Costs

Year	GWA Cost	Detry Cost	Total
2016	\$172,369.04	\$0.00	\$172,369.04
2017	\$205,731.05	\$0.00	\$205,731.05
2018	\$464,031.55	\$26,323.62	\$490,355.17
2019	\$595,706.26	\$15,095.04	\$610,801.30
2020	\$766,008.30	\$7,084.48	\$773,092.78
2021	\$808,781.81	\$51,904.33	\$860,686.14
2022	\$1,231,348.84	\$80,779.15	\$1,312,127.99
2023 (10 months)*	\$210,816.20	\$6,027.50	\$216,843.70
<b>Total</b>	<b>\$4,454,793.05</b>	<b>\$187,214.12</b>	<b>\$4,642,007.17</b>

\* The GWA Rate Change for Leachate Treatment (\$28.92 per 1000 gallons to \$14.72) became effective in August 2023







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## Status of GWA rebate claim

- Rejection of Receiver's claim dated Sept 5, 2023
- Dye Test Observations and impact on claim
  - Receiver is unclear as to the intended conclusions of the study
- Leachate & Seeps Investigation
  - Receiver is awaiting Technical Report
- Based on results, send another letter to GWA
- Additional elements of GWA leak cost impact:
  - Leachate and Seeps Investigation (B&C)
  - Receiver's work responding to leak
  - Additional preparation for Technical meetings and Meet & Confers





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## Next Receiver Presentation to GSWA Board

- Ordot Dump O&M Costs and Change Orders





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Questions?

