



REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-069

From: Gerritt Lacey, Solid Waste Manager

Date: December 3, 2021

Subject: **2021 Fall Clean-Up Review**

RECOMMENDATION:

That the Solid Waste Committee recommend that the report titled "2021 Fall Clean-Up Review-ENV-SWC-069", which outlines the tonnage, customer use, and costs for the Clean-Up Campaign, be received for information by the Solid Waste Committee and shared with the Regional Board for their information.

BACKGROUND/RATIONALE:

Over the last three years, the Peace River Regional District (PRRD) has offered and advertised Spring/Fall Clean-Up Campaigns in an effort to prevent illegal dumping. During the clean-up weeks, free bulky waste disposal is made available to residents, twice a year for a 2-week period each. In the fall of 2021, bulky bins were placed at all unmanned and Tier 2 Transfer Stations, tipping fees were waived for sorted waste at the PRRD Landfills and Transfer Stations, and the hours of operation for the solid waste collection network were extended.

The purpose of this report is to:

- a. Compare customer and tonnage statistics for the campaigns, 2019 through to 2021; and
- b. Summarize the successes for the recent Fall 2021 Clean-Up program and the program overall.

Customer Count Comparison Fall 2019 to 2021:

There was an overall 13% decrease in customers during the 2021 Fall Clean-Up campaign compared to 2020. A quick overview of chart 1a in the attached Appendix A document is provided below:

- Landfills (LFs) had a total decrease of 11% in customers in 2021 compared to 2020.
 - The highest decrease of 14% occurred at the Bessborough LF.
- Tier 1 Transfer Stations (TSs) had an overall decrease of 13% in customers.
 - Wonowon and Kelly Lake TS increased by 169% and 86%, respectively.
- Tier 2 TSs had an overall decrease of 25% in customers.
 - All sites saw a decrease, with the highest decrease occurring at the Goodlow TS with a decrease of 78%. However this is attributed to the site being closed for a few days at the beginning of Fall Clean-Up due to a break in and the bin being placed outside the fence where customers were not counted.
 - The next highest decrease of 42% occurred at the Buick Creek TS.

Yearly Comparison to Date including Spring and Fall Clean-up:

Looking at all season and yearly totals, there was a total decrease 6% of customers between 2020 and 2021, whereas between 2019 and 2020 there was an increase of 54%. However over the three years of the campaign there was an increase of 45% between 2019 and 2021. A quick overview of chart 1b in Appendix A, as attached, is provided below:

- Landfills saw a total decrease of 4% of customers between 2020 and 2021. Over the three years of the campaign there has been an increase of 48% of customers.
- Tier 1 TS's saw a total decrease of 7% of customers between 2020 and 2021. Over the three years of the campaign there has been an increase of 26% of customers.
- Tier 2 TS's saw a total decrease of 9% in customers between 2020 and 2021. Over the three years of the campaign there has been an increase of 162% of customers.

Tonnage Comparison Fall 2019 to 2021:

There was an overall decrease of 22% in tonnage during Fall Clean-Up 2021 compared to 2020. A quick overview of the chart 2a in Appendix A, as attached, is provided below:

- Landfills had an overall decrease of 20% of tonnage in fall of 2021 compared to 2020. All Landfills saw a decrease of tonnage between 2020 and 2021.
 - Bessborough LF had the highest decrease of 36%.
- Tier 1 TS's had an overall decrease of 27% in tonnage in fall of 2021 compared to 2020.
 - Rose Prairie saw the highest decrease of 54%.
- Tier 2 TS's had an overall decrease of 21% of tonnage in 2021 compared to 2020.
 - Pink Mountain TS had the highest increase of 122%.
 - All other sites saw a decrease in tonnage.
- Unattended sites had an overall decrease of 14% of tonnage received in fall of 2021 compared to 2020.
 - Mile 62.5 had the highest increase of 327%.
 - Osborn had the highest decrease of 65%.

Yearly Comparison to Date including Spring and Fall Clean-up:

Looking at yearly totals, there was a total decrease of 19% in tonnage received between 2020 and 2021, whereas between 2019 and 2020 there was an increase of 70%. However over the three years of the campaign there was an increase of 38% between 2019 and 2021. A quick overview of chart 2b in Appendix A, as attached, is provided below.

- Landfills saw a total decrease of 24% of tonnage received between 2020 and 2021. Over the three years of the campaign there has been an increase of 64% of tonnage.
- Tier 1 TS's saw a total decrease of 13% of tonnage between 2020 and 2021. Over the three years of the campaign there has been an increase of 23% of tonnage.
- Tier 2 TS's saw a total decrease of 20% of tonnage received in the bulky bins between 2020 and 2021. Over the three years of the campaign there has been a decrease of 25% of tonnage.
- Unattended sites saw a total decrease of 4% of tonnage received between 2020 and 2021. Over the three years of the campaign there has been an increase of 4% of tonnage received.

Analysis of Trends

- Decrease of both tonnage and customers in fall of 2021 compared to fall 2020.
- Decrease in tonnage and customer counts in the yearly totals in 2021 compared to 2020.

- Increase in both tonnage and customers in the yearly totals in 2021 compared to 2019.

It is believed that the spike in tonnage and customers in 2020 was related to the COVID-19 pandemic.

Successes

Over the last three years, this campaign has developed into a well-used and appreciated program. By implementing waived tipping fees during the Spring/Fall Clean-Up, instances of illegal dumping have been reduced and there have been increased opportunities to educate customers on proper segregation and diversion of materials and promote new programs offered by the PRRD.

Overall this program of waiving tipping fees during Fall Clean-Up has been successful.

ALTERNATIVE OPTIONS:

1. That the Solid Waste Committee provide further direction.

STRATEGIC PLAN RELEVANCE:

- ☒ Not Applicable to Strategic Plan

FINANCIAL CONSIDERATION(S):

Table 1: Fall Clean-Up Costs from 2019-2021

Operational Cost Items	FALL		
	2019	2020	2021
Haulage for Unattended Bins	\$ 36,466.00	\$ 40,187.00	\$ 36,575.00
Haulage for Bulky Bins at RTS	\$ 31,428.65	\$ 38,956.21	\$ 17,555.00
Additional Staff Costs at Attended Transfer Stations	\$ 4,680.00	\$ 38,891.14	\$ 35,852.58
Additional Equipment Costs at Landfills	\$ 3,480.00	\$ -	\$ -
Additional Staff at Landfills	\$ 10,708.79	\$ 7,995.62	\$ 7,995.62
Advertising Costs	\$ -	\$ 1,160.00	\$ 765.00
TOTAL	\$ 86,763.44	\$ 127,189.97	\$ 98,743.20

As shown above in Table 1, there was a decrease of over \$28,000 or 22% to the Fall Clean-Up in 2021 when compared to the 2020 costs.

Table 2: Yearly Clean-Up Costs from 2019-2021

Operational Cost Items	ALL YEARS		
	2019	2020	2021
Haulage for Unattend Bins	\$ 87,240.50	\$ 95,110.50	\$ 80,905.00
Haulage for Bulky Bins at RTS	\$ 65,483.53	\$ 75,624.50	\$ 52,310.00
Additional Staff Costs at Attended Transfer Stations	\$ 11,320.00	\$ 75,796.04	\$ 73,307.58
Additional Equipment Costs at Landfills	\$ 16,089.00	\$ 11,638.00	\$ -
Additional Staff at Landfills	\$ 10,708.79	\$ 16,380.24	\$ 15,990.62
Advertising Costs	\$ -	\$ 2,320.00	\$ 1,530.00
TOTAL	\$ 190,841.82	\$ 276,869.28	\$ 224,043.20

As shown in Table 2, 2021 Clean-Up costs decreased by over \$50,000 or 19% when compared to the 2020 costs.

The 2021 budget for both Spring and Fall Clean-Up campaigns was \$280,000, approximately \$55,000 under budget.

The loss in revenue for providing these Clean-Up campaigns are provided in Tables 3 and 4 below. It is important to note, that during the clean-up events, waived tipping fees reflect potential revenue only as the program encourages materials that would may not have been brought in otherwise.

Table 3: Waived Tipping Fees Comparisons for Fall of 2019-2021

Potential Lost Revenue	Fall 2019	Fall 2020	Fall 2021
Waiving of Tipping Fees	\$42,938.99	\$76,907.34	\$62,830.82

Table 4: Annual Waived Tipping Fees for 2019-2021

Potential Lost Revenue	2019	2020	2021
Waiving of Tipping Fees	\$132,436.73	\$240,894.21	\$205,310.09

COMMUNICATIONS CONSIDERATION(S):

The Fall Clean-Up 2021 was advertised via posters at PRRD Solid Waste Facilities, social media, website posts, and radio ads.

OTHER CONSIDERATION(S):

2022 Clean-Up Dates are as follows:

- Spring 2022 – June 6, 2022 to June 19, 2022
- Fall 2022 – October 3, 2022 to October 16, 2022

Attachments:

1. Appendix A – 2021 Fall Clean-up Data