



# PEACE RIVER REGIONAL DISTRICT

## Solid Waste Committee Meeting Agenda

March 4, 2021, 10:00 a.m.  
1981 Alaska Avenue, Dawson Creek, BC

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	<b>Pages</b>
1. Call to Order	
2. Directors' Notice of New Business	
3. Adoption of Agenda	
4. Gallery Comments or Questions	
5. Adoption of Minutes	2
5.1 Solid Waste Committee Meeting Draft Minutes of February 4, 2021	
6. Business Arising from the Minutes	
7. Delegations	
8. Correspondence	
9. Reports	
9.1. Future Groundbirch Transfer Station Land Acquisition, ENV-SWC-037	5
9.2. Prespatou Waste Transfer Station Weigh Scale, ENV-SWC-036	7
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12.1 Terms of Reference	
13. Adjournment	



## PEACE RIVER REGIONAL DISTRICT

### SOLID WASTE COMMITTEE MEETING MINUTES

THURSDAY, FEBRUARY 4, 2021

**LOCATION** Peace River Regional District Office, Dawson Creek, BC

#### ATTENDANCE

##### Committee Directors

Director Rose, Electoral Area 'E' – Committee Chair  
Director Bumstead, City of Dawson Creek  
Director Zabinsky, City of Fort St. John  
Alternate Director Deck, District of Chetwynd  
Director Fraser, District of Taylor  
Director Sperling, Electoral Area 'C' – ex officio  
Director Goodings, Electoral Area 'B' (*via teleconference*)

##### Staff

Shawn Dahlen, Chief Administrative Officer  
Tyra Henderson, Corporate Officer  
Tab Young, Deputy Corporate Officer  
Paulo Eichelberger, GM of Environmental Services  
Gerritt Lacey, Solid Waste Manager  
Suzanne Garrett, Recorder

**1. CALL TO ORDER** The Chair called the meeting to order at 10:05 a.m.

#### 2. DIRECTORS' NOTICE OF NEW BUSINESS

Director Sperling agriculture plastics

#### 3. ADOPTION OF AGENDA

- 3.1 Adoption of Agenda MOVED Director Fraser, SECONDED Director Zabinsky,  
That the Solid Waste Committee adopt the February 4, 2021 Meeting Agenda, as amended  
to include Director's new business (agriculture plastics):
1. Call to Order
  2. Directors' Notice of New Business
  3. Adoption of Agenda
  4. Gallery Comments or Questions
  5. Adoption of Minutes
    - 5.1 Solid Waste Committee Draft Meeting Minutes of January 7, 2021
    - 5.2 Solid Waste Committee Draft Budget Meeting Minutes of January 15, 2021
  6. Business Arising from the Minutes
  7. Delegations
  8. Correspondence
  9. Reports
    - 9.1 RFP Award 23-2020 Mile 62.5 Transfer Station Site Attendant, ENV-SWC-034
  10. New Business
    - 10.1 agricultural plastics
  11. Diary
  12. Item(s) for Information
    - 12.1 Solid Waste Terms of Reference
  13. Adjournment

**CARRIED**



#### 4. GALLERY COMMENTS OR QUESTIONS

#### 5. ADOPTION OF MINUTES

- 5.1 MOVED Director Goodings, SECONDED Director Zabinsky,  
Jan 7, 2021 SWC Minutes That the Solid Waste Committee adopt the January 7, 2021 Meeting Minutes.

**CARRIED**

- 5.2 MOVED Director Bumstead, SECONDED Director Zabinsky,  
Jan 15, 2021 SWC Budget Minutes That the Solid Waste Committee adopt the January 15, 2021 Budget Meeting Minutes.

**CARRIED**

#### 6. BUSINESS ARISING FROM THE MINUTES

#### 7. DELEGATIONS

#### 8. CORRESPONDENCE

#### 9. REPORTS

- 9.1 RFP Award 43-2020 Mile 62.5 Transfer Station Site Attendant ENV-SWC-034  
MOVED Director Zabinsky, SECONDED Alternate Director Deck,  
That the Solid Waste Committee recommend that the Regional Board award Request for Proposal 43-2020 "Mile 62.5 Transfer Station Site Attendant" to Dusty Road Ventures Ltd. for a three year contract at a cost of \$135,000 (excluding taxes); further, that the Chair and Chief Administrative Officer be authorized to sign the contract on behalf of the Peace River Regional District.

**CARRIED**

Staff confirmed that the contract price is \$135,000 for three years, averaging approximately \$45,000 per year.

It was also noted that staff continues to work with Procurement to find efficiencies and maintain a "use local" approach for contracts. Consolidating contracts by area is under consideration for future contract renewals.

#### 10. NEW BUSINESS

- 10.1 Agricultural plastics  
Director Sperling felt that the article in the January 28, 2021 edition of the Western Producer entitled "Alberta farmer turns ag plastic into fence posts" presents an opportunity for investigation as existing recyclers only want clean plastics.

A Vermillion farmer, Danny Farkash, has constructed a recycling machine using old oilfield pipe, an anhydrous ammonia tank, a straw chopper, and parts of a swather. The machine takes plastic grain bags in one end and spits out fence posts. The machine is also capable of recycling other types of plastics, regardless of how dirty it is.

*Continued on next page*



10.1 Agricultural plastics  
(Cont'd)

MOVED by Director Sperling, SECONDED by Alternate Director Deck,  
That the Solid Waste Committee recommend to the Regional Board that  
discussions be undertaken with Mr. Farkash to determine his interest in an  
initiative to accept agricultural plastics from the Peace Region as feedstock for use  
in his new process which creates fence posts from ag-plastic waste; further, that a  
report detailing the discussion and potential next steps be brought back to the  
Solid Waste Committee for consideration.

**CARRIED**

**11. DIARY**

**12. ITEMS FOR INFORMATION**

12.1 SWC Terms of  
Reference

**13. ADJOURNMENT**

13.1

The Chair adjourned the Meeting at 10:25 a.m.

**CARRIED**

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Director Rose, Meeting Chair

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S. Garrett, Recorder



# REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-037

From: Paulo Eichelberger, General Manager of Environmental Services

Date: March 4, 2021

**Subject: Future Groundbirch Transfer Station Land Acquisition**

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## RECOMMENDATION:

That the Solid Waste Committee recommend that the Regional Board authorize submission of an application to purchase 8225-271 Road (PID 012-260-509) "as is" from the Province, through a Sponsored Crown Grant, for the purpose of expanding and upgrading the existing transfer station.

## BACKGROUND/RATIONALE:

On July 2, 2020, the Regional Board passed the following resolution:

MOVED/SECONDED AND CARRIED,

That the Regional Board notify nearby property owners of the proposed acquisition of 8225-271 Road for the purpose of expanding and upgrading the existing transfer station and authorize an offer of \$5,000 for the purchase of 8225-271 Road (PID 012-260-509) from the Province of British Columbia subject to receipt of a Phase 2 environmental assessment satisfactory to the PRRD.

PRRD staff approached the Province to purchase 8225-271 Road (PID 012-260-509). The authorizing specialist from the Province informed staff that there are two approaches to purchase.

1. Crown Grant

- Fair market value is paid for the land as is, state of the property is taken into consideration of the appraised value.
- Once the title is signed over, the property belongs to the client (i.e. the PRRD).

2. Sponsored Crown Grant

- A concessionary value is paid for the property.
- Sponsorship is based on condition of use, meaning if the use changes or stops the property reverts back to the Province.

For either approach, purchases of Crown Land must be completed through an application via FrontCounter BC. Through the application process, there is the ability to apply for a Sponsored Crown Grant (SCG). Regional Districts are eligible to apply for a SCG if the property they wish to purchase is for community purposes. Once an application is submitted, an authorizing specialist will determine if it progresses to ministry sponsorship. The ministry will then decide to either sponsor or not sponsor the application. If the ministry approves sponsorship, it will work with the authorizing specialist to

develop a concessionary value through their Pricing Policy<sup>1</sup>. The authorizing specialist will then provide written notification to the applicant of the decision that was made.

If ministry sponsorship is not obtained, then the applicant can still apply for the purchase of land through a Crown Grant for fair market value.

**ALTERNATIVE OPTIONS:**

1. That the Solid Waste Committee provide further direction.

**STRATEGIC PLAN RELEVANCE:**

- ☒ Responsive Service Delivery
- ☐ Not Applicable to Strategic Plan.

**FINANCIAL CONSIDERATION(S):**

The application fee is \$250, which would be paid out of Solid Waste operations.

**COMMUNICATIONS CONSIDERATION(S):**

N/A

**OTHER CONSIDERATION(S):**

Once the authorizing specialist provides any updates on the application (if sponsorship is approved and the cost), staff will report back to the SWC.

In 2018, the property was appraised at \$24,000. At that time there was a mobile trailer located on the property. Since then, the mobile trailer has been removed and there is significant material that would need to be taken from site. This could affect the fair market value of the property resulting in a lower cost. If the SCG is approved, the concessionary value is expected to be less than the previous appraisal.

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<sup>1</sup> The value of SCG includes, the fair market value of the land, the assessed value of merchantable timber, the current value of any improvements including buildings and other development created with public fund. The actual amount charged for all SCG will reflect all Book Costs incurred by the province (application fees, development costs, advertising, appraisals, etc.)



# REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-036

From: Paulo Eichelberger, GM of Environmental Services

Date: March 4, 2021

Subject: Prespatou Waste Transfer Station Weigh Scale

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## RECOMMENDATION:

That the Solid Waste Committee receive the report, titled “Prespatou Waste Transfer Station Weigh Scale-ENV-SWC-036” regarding the Prespatou Waste Transfer Station weigh scale for discussion.

## BACKGROUND/RATIONALE:

As Committee members are aware, the foundations for the weigh scale at the Prespatou Transfer Station (the Station) have begun to move, contacting the adjacent frame and deck. This movement is likely caused by drainage issues and water becoming trapped and saturating the ground. The scale currently meets federal regulations<sup>1</sup> but will likely require additional maintenance work to stay that way.

Operational monies are in the 2021 draft Financial Plan to investigate whether or not repairs can be done in-house to enhance the life of the scale.

At the Special Budget meeting held on February 17, 2021, the Regional Board considered the supplemental budget request for \$60,000 to compile engineered design for capital works, should operations be unable to permanently repair the scale. The discussion determined that the site could operate as a volume-only station, much like the bulk of the manned rural transfer stations in the region. Therefore the Regional Board resolved not to add in monies for design of capital works for the Prespatou scale.

## ALTERNATIVE OPTIONS:

1. That the Solid Waste Committee provide further direction.

## STRATEGIC PLAN RELEVANCE:

- ☒ Not Applicable to Strategic Plan.

## FINANCIAL CONSIDERATION(S):

With the conversion of the Station to a volume-only transaction site, annual scale certification will no longer be required, which will reduce annual costs by approximately \$7,600.

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<sup>1</sup> [Weights and Measures Act](#) (Use of Devices) – regulations require any weigh scale being utilized for customer transactions to be calibrated by a certified inspector according to measurement standards.

Maintenance of the scale is typically \$5,400-\$7,700 per year, based on 2019-2020 actuals. Those monies will be utilized in 2021 to convert over to a volume-only system, using the scale deck as a bridge to access the station. Costs to remove the scale (if necessary) are unknown at this time.

**COMMUNICATIONS CONSIDERATION(S):**

When the PRRD purchased the lands containing the weigh scale in 2012, an agreement was established between the PRRD and the Prespatou Farmer's Institute (PFI) such that ag-users in the area could utilize the scale for weighing their grain loads. With the lapse of the agreement in 2020 and direction by the Regional Board not to pursue any capital works to upgrade the scale, a letter will be issued to the PFI notifying them that the scale can no longer be utilized for bale/grain handling to report out accurate weights.

**OTHER CONSIDERATION(S):**

None at this time.

**External Links:**

1. Function 500 Regional Solid Waste Draft Budget – See [Item 5.42](#)





# REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-035

From: Paulo Eichelberger, GM of Environmental Services

Date: March 4, 2021

**Subject: Draft Regional Solid Waste Management Plan – Consultation Update**

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## RECOMMENDATION:

That the Solid Waste Committee receive the report titled “Draft Regional Solid Waste Management Plan – Consultation Update – ENV-SWC-035”, which updates members on the progress of the Public Consultation phase of the Draft Regional Solid Waste Management Plan Renewal project, for information.

## BACKGROUND/RATIONALE:

The Draft Regional Solid Waste Management Plan (RSWMP) was approved on Dec 11, 2020, by the Regional Board to move to the Public Consultation phase. This report is intended to provide an update on the progress of the Public Consultation phase:

1. Combination of online and hard copy surveys to be used as an alternative public consultation technique, with survey links forwarded to member municipalities to increase the level of reach to the public.
  - a. Survey was finalized and issued on the new PRRD website communications platform, <https://haveyoursay.prrd.bc.ca/> on February 2, 2021 – scheduled to run for 6 weeks.
  - b. Links were forwarded to all member municipalities and all in-region First Nations that utilize the PRRD’s solid waste sites.
2. A combination of virtual open houses and town hall meetings.
  - a. Currently virtual open houses are scheduled between April 12, 2021 and April 29, 2021. These open houses will be broken into 16 sessions for the public (see table under Communications Considerations).
  - b. These open houses will be held via Zoom. It should be noted that these open houses are unrestricted, meaning that the sessions provide the opportunity for anyone to attend one or more of these events, regardless of the location.
3. A targeted mail-out survey – will be sent out in April 2021.

Once the public consultation phase is completed:

1. All comments will be reviewed and compiled into a public consultation report; then,
2. Key themes from the consultation will be incorporated into the renewed Plan; and finally,
3. Both documents will be presented to the Solid Waste Committee and Regional Board for consideration, prior to submission to the B.C. Ministry of Environment and Climate Change Strategy.

## ALTERNATIVE OPTIONS:

1. That the Solid Waste Committee provide further direction.

**STRATEGIC PLAN RELEVANCE:**

- ☒ Responsive Service Delivery
- ☒ Review and Amend Solid Waste Management Plan

**FINANCIAL CONSIDERATION(S):**

None at this time. Funds already captured in the 2021 Draft Financial Plan

**COMMUNICATIONS CONSIDERATION(S):**

All open houses will be virtual, due to the public health restrictions resulting from the COVID-19 pandemic. The open house schedule is listed below, subject to change.

Target Communities	Date	Time
Dawson Creek	Thursday, April 8, 2021	1:00 PM
Fort St. John	Saturday, April 10, 2021	2:00 PM
Chetwynd	Monday, April 12, 2021	11:00 AM
Hudson's Hope	Wednesday, April 14, 2021	9:30 AM
Tumbler Ridge	Wednesday, April 14, 2021	3:30 PM
Pouce Coupe	Thursday, April 15, 2021	7:30 PM
Taylor	Monday, April 19, 2021	12:00 PM
Electoral Area B	Tuesday, April 20, 2021	7:30 PM
Electoral Area C	Wednesday, April 21, 2021	9:30 AM
Electoral Area D	Thursday, April 22, 2021	12:00 PM
Electoral Area E	Friday, April 23, 2021	9:30 AM
Doig River First Nations	Monday, April 26, 2021	11:00 AM
Halfway River First Nations	Tuesday, April 27, 2021	1:00 PM
Blueberry River First Nations	Wednesday, April 28, 2021	9:30 AM
West Moberly First Nations	Wednesday, April 28, 2021	3:00 PM
Saulteau First Nations	Thursday, April 29, 2021	11:00 AM

**OTHER CONSIDERATION(S):**

Staff entertained the idea of adding in an informational video providing an overview of the Plan, which would be posted on "Have Your Say," however, this would result in an additional cost of \$8,500 to the project. Should the Committee consider this option, the monies can be applied to the COVID relief fund, in the same manner as additional cost of \$5,000 for the solid waste surveys that was approved in December 2020.



# REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-038

From: Gerritt Lacey, Solid Waste Manager

Date: March 4, 2021

**Subject: 2020 Recycling Services Financial Recap**

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## RECOMMENDATION:

That the Solid Waste Committee receive the report titled "2020 Recycling Services Financial Recap – ENV – SWC - 038", which provides an update on the Peace River Regional District's Recycling programs for information.

## BACKGROUND/RATIONALE:

The purpose of this report is to update the Solid Waste Committee (SWC) on the Peace River Regional District's (PRRD) Recycling programs through 2020.

The PRRD collects and markets recyclable material throughout the region by the use of two contracts:

1. Recycle BC
2. Regional Recycling Contract

### Recycle BC

The service agreement with Multi-Material BC Society (MMBC), now Recycle BC (RBC), was entered into in November of 2013 for a 5-year term. This agreement was extended in 2018 for another 5 year term which ends in December of 2023. Through this agreement, material is collected at a series of manned depots. Once material is collected at the depots, the cost of transportation to market is born by RBC, with the PRRD receiving a market value based on fixed rates for each material type.

The table below shows the 12 sites that collect RBC material and the site type:

#### *RBC Depots*

Location of Service Area	Site Type
Buick Creek Transfer Station	Depot
Cecil Lake Transfer Station	Depot
Goodlow Transfer Station	Satellite
Kelly Lake Transfer Station	Satellite
Moberly Lake Transfer Station	Depot
Pink Mountain Transfer Station	Satellite
Prespatou Transfer Station	Depot
Rolla Transfer Station	Depot
Tumbler Ridge Recycling Depot	Depot
Tomslake Transfer Station	Depot
Upper Halfway Transfer Station	Depot
Wonowon Transfer Station	Depot

There are 7 streams of materials that are collected through the RBC program, these are:

- |                        |                            |
|------------------------|----------------------------|
| 1. Coloured Styrofoam  | 5. Other Flexible Plastics |
| 2. White Styrofoam     | 6. Plastic Film            |
| 3. Paper and Cardboard | 7. Glass                   |
| 4. Mixed Containers    |                            |

The costs associated for providing the recycling services for these 7 streams are broken out in three categories:

1. Collection - PRRD Staff time to move material from satellite sites to the depots.
2. Market Costs - Fixed rate per tonne, depending on material stream and collection method (Bailed vs loose).
3. Education Top Up - Fixed rate per household in the servicing area.

A breakdown of the costs for the RBC contract during 2020 is provided below:

*2020 RBC Recycling Recap*

2020	
<b>Tonnage</b>	94.7358
<b>Collection</b>	-\$6,585
<b>Market Gain</b>	\$16,514.77
<b>Average Unit Rate</b>	\$104.82/tonne
<b>Education Top Up</b>	\$32,194.92

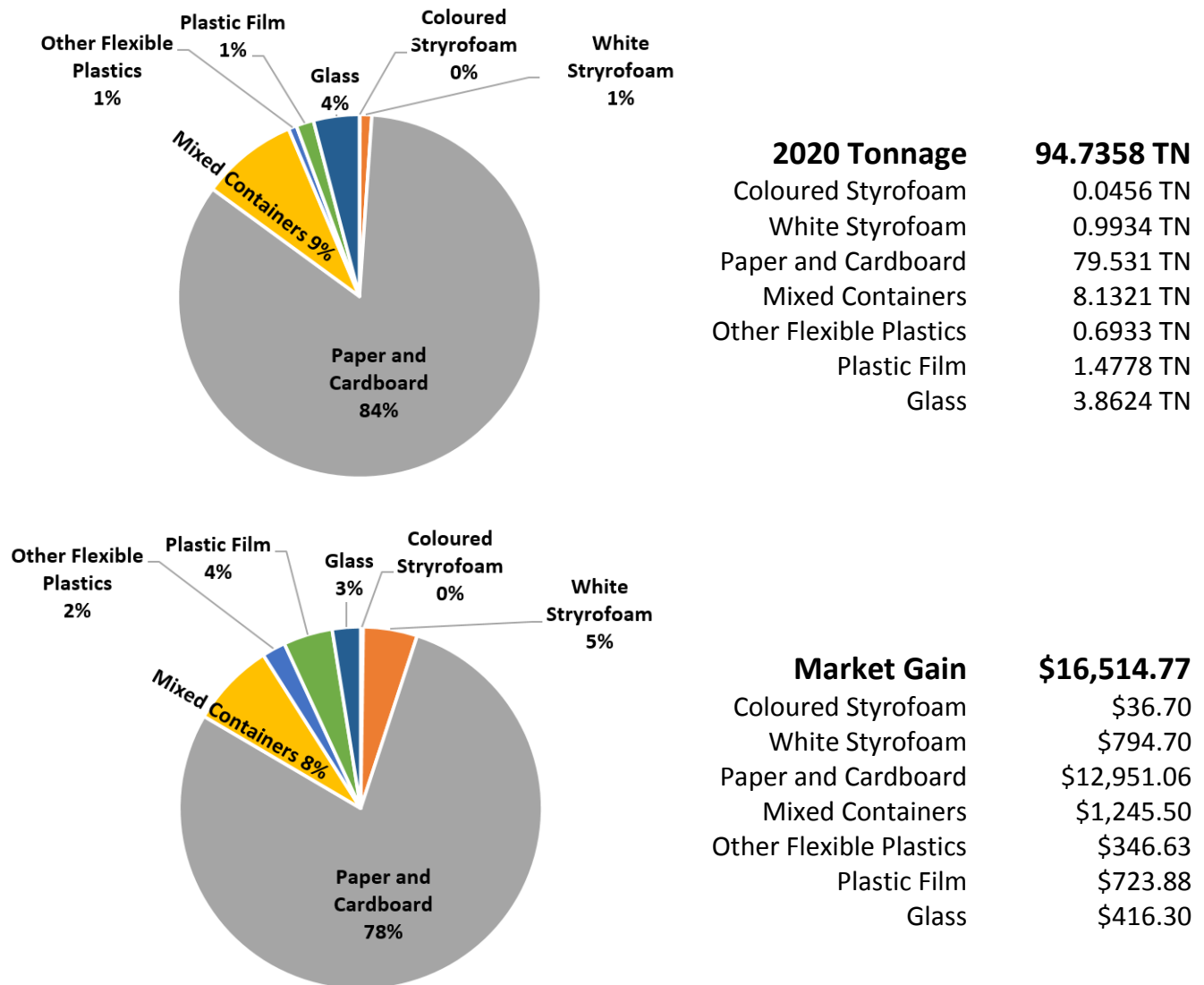
The collection costs the PRRD paid in 2020 are from two operational items:

1. Moving materials from the satellite sites to the closest depots. This was approximately \$1,905 in 2020.
2. Moving mega bags from the wooden coops to rig mats at the depots in preparation for collection. This was approximately \$4,680 in 2020.

In the fall of 2020, 9 recycling sheds were added at the transfer station depots. These sheds eliminated the need for field services staff to move materials from the coops to the rig mats, saving the cost in future years.

The PRRD splits market gains with the District of Tumbler Ridge (DTR). The DTR operates the Tumbler Ridge depot with District staff. When the PRRD receives the market gain for materials coming from that site, the funds are transferred to the DTR. In 2020, the Tumbler Ridge depot contributed 66% of the total tonnage, and received \$10,276.81 in market gains.

Charts illustrating how each of the 7 streams contributed to tonnage and market gain for 2020 have been included below:



RBC is a steward for an Extended Producer Responsibility (EPR) Program that manages Packaging and Printed Paper (PPP). The intension of EPR programs is that the cost of materials to their end of life is the responsibility of the manufacturer. These manufacturers put funds into a program which is run by a steward entity (in this case, RBC). When utilized properly, an EPR program should bear 100% of the cost of handling the material which they are responsible for.

**Regional Recycling Contract**

The contract was awarded to Recycle-It Resource Recovery (R3) on August 4, 2016. This is a five-year contract, which runs from March 1, 2017 until February 28, 2022. This contract handles recyclable materials that are not being collected through stewardship programs, such as Recycle BC. The material is collected at a series of manned and unmanned depots across the PRRD.

The table below outlines the number of depots and their service areas throughout the region:

***R3 Depot Service Areas***

Location of Service Area	Minimum Number of Depots
Bessborough Landfill	1
Charlie Lake	1
Chetwynd	2
Dawson Creek	5
Fort St. John	5
Hudson's Hope	1
Mile 62.5	1
Pouce Coupe	1
Taylor	1

Along with the depots that being serviced, R3 also handles the municipal commingled curbside material collected in Dawson Creek, Fort St. John, Pouce Coupe, and Tumbler Ridge.

There are 8 streams of materials that R3 collects, which are:

- |                                   |                        |
|-----------------------------------|------------------------|
| 1. Commingled Curbside            | 5. Hard Plastics (HPL) |
| 2. Mixed Waste Paper (MWP)        | 6. Metal (MTL)         |
| 3. Shredded Office Paper (SOP)    | 7. Styrofoam (SYF)     |
| 4. Old Corrugated Cardboard (OCC) | 8. Glass (GLS)         |

The costs associated for providing the recycling services for these 8 streams are broken out in two categories:

1. Collection and Processing - Fixed Rate (\$/Tonne) applied to each stream.
2. Market Costs - Variable cost for each stream that can change daily, it includes transportation to markets and market value. These Costs are viewed as either a Market Loss<sup>1</sup> or a Market Gain<sup>2</sup> and are invoiced monthly.

Through the Contract with R3, market costs are handled in 3 ways:

Material	Market Loss	Market Gain
<b>Commingled Curbside</b>	100% payable by PRRD	100% paid to PRRD
<b>Mixed Waste Paper</b>	50% payable by PRRD 50% payable by R3	100% paid to PRRD
<b>Remaining 6 Streams* (SOP,OCC,HPL,MTL,SYF,GLS)</b>	100% payable by R3	100% paid to PRRD

<sup>1</sup> Market Loss: When the sum of all costs to take the material to market nets as a negative value in the invoicing month.

<sup>2</sup> Market Gain: When the sum of all costs to take the material to market nets as a positive value in the invoicing month.

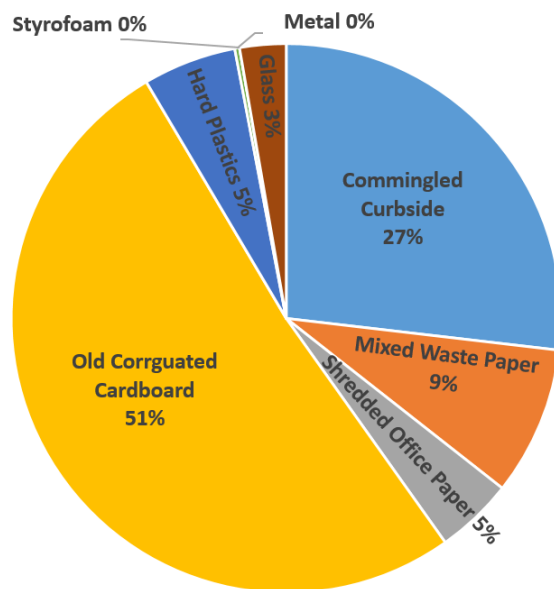
\*The market loss/gain is determined by adding all six streams in the invoicing month, rather than handling as individual streams per month.

In 2020, \$2,103,147 was budgeted for the Recycling Services Contract (RSC). A breakdown of the total tonnages and costs for 2020 vs 2019 has been provided below:

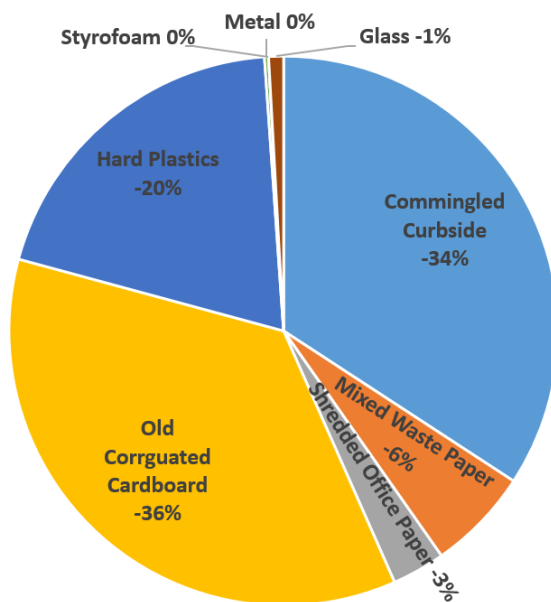
*2020 RSC Recap*

Total Recycling Costs		2019	2020	% Change
Unit Rate	Total Tonnage	4527.54	4328.46	-4%
	Collection/Processing Rate	-\$380.45	-\$375.87	-1%
	Market Rate	-\$55.34	-\$33.06	40%
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$435.78</b>	<b>-\$408.93</b>	<b>-6%</b>
Stream Cost	Collection/Processing Cost	-\$1,722,485.69	-\$1,626,956.56	-6%
	PRRD Market Gain	\$2,281.98	\$64,917.82	2745%
	PRRD Market Loss	-\$252,821.65	-\$208,013.87	-18%
	<b>Total PRRD Cost</b>	<b>-\$1,973,025.36</b>	<b>-\$1,770,052.61</b>	<b>-10%</b>

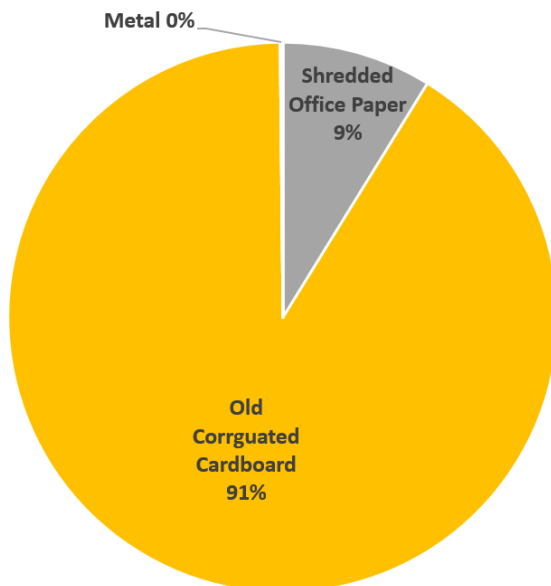
Charts illustrating how each of the 8 streams contributed to tonnage, collection/processing, market gain, market loss, and total costs for the 2020 RSC have been included below:



<b>2020 Tonnage</b>	<b>4,528.5 TN</b>
Commingled	1,162.2 TN
Mixed Waste Paper	379.1 TN
Shredded Office Paper	198.0 TN
Old Corrugated Cardboard	2,221.4 TN
Hard Plastics	237.9 TN
Metal	12.1 TN
Styrofoam	0.0 TN
Glass	117.8 TN

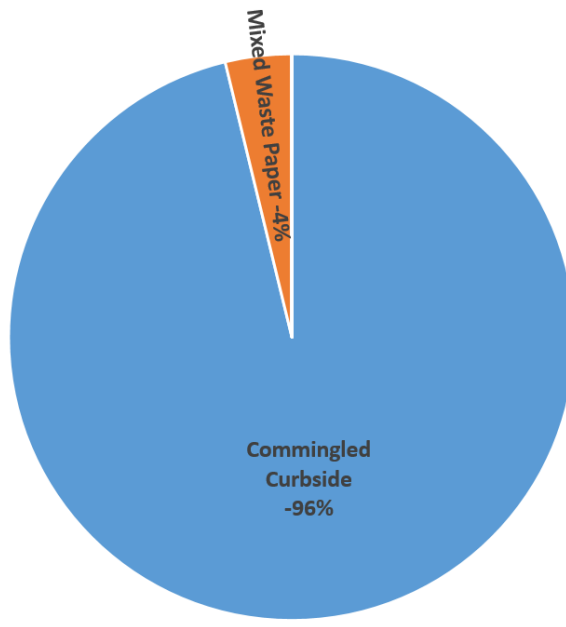


<b>Collection/Processing</b>	<b>-\$1,626,956.56</b>
Commingled	-\$556,443.66
Mixed Waste Paper	-\$98,468.27
Shredded Office Paper	-\$50,871.54
Old Corrugated Cardboard	-\$582,912.94
Hard Plastics	-\$320,118.99
Metal	-\$3,928.38
Styrofoam	\$0
Glass	-\$14,212.78

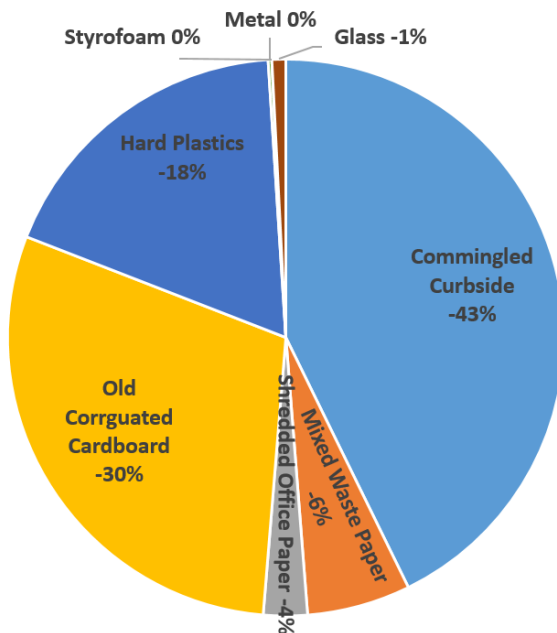


<b>Market Gain</b>	<b>\$64,917.82</b>
Commingled	\$0
Mixed Waste Paper	\$0
Shredded Office Paper	\$5,716.29
Old Corrugated Cardboard	\$59,094.78
Hard Plastics	\$0
Metal	\$106.75
Styrofoam	\$0
Glass	\$0



**Market Loss - \$208,013.87**

Commingled	-\$200,129.69
Mixed Waste Paper	-\$7,884.18
Shredded Office Paper	\$0
Old Corrugated Cardboard	\$0
Hard Plastics	\$0
Metal	\$0
Styrofoam	\$0
Glass	\$0

**Total Cost - \$1,770,052.61**

Commingled	-\$756,573.35
Mixed Waste Paper	-\$106,352.45
Shredded Office Paper	-\$45,155.25
Old Corrugated Cardboard	-\$523,818.16
Hard Plastics	-\$320,118.99
Metal	-\$3,821.62
Styrofoam	\$0
Glass	-\$14,212.78

Attachment 1 provides a detailed breakdown of the individual streams comparing 2020 and 2019 costs and market values.

**ALTERNATIVE OPTIONS:**

1. That the Solid Waste Committee provide further direction.

**STRATEGIC PLAN RELEVANCE:**

- ☒ Not Applicable to Strategic Plan.

**FINANCIAL CONSIDERATION(S):**

In 2020 the material handled through the RBC program provided the PRRD with a net loss of -\$347.04 or -\$10.50/tonne, when the tonnage and market gain of Tumbler Ridge is removed from the total program. This loss is attributed to extra field service time needed through the transition into recycling sheds.

In 2020 the material handled through the RSC program provided the PRRD with a net loss of -\$1,770,052.61 or -\$408.93/tonne. This can be attributed to the PRRD funding 100% of collection/processing, transportation to market, and uncertain markets.

**COMMUNICATIONS CONSIDERATION(S):**

None at this time.

**OTHER CONSIDERATION(S):**

None at this time.

**Attachments:**

1. RCS 2020 vs 2019 Stream Summaries

2020 Recyclable Stream Data

Total Recycling Costs		2019	2020	% Change
Unit Rate	Total Tonnage	4527.54	4328.46	-4.4%
	Collection/Processing Rate	-\$380.45	-\$375.87	-1.2%
	Market Rate	-\$55.34	-\$33.06	40.3%
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$435.78</b>	<b>-\$408.93</b>	<b>-6.2%</b>
Stream Cost	Collection/Processing Cost	-\$1,722,485.69	-\$1,626,956.56	-5.5%
	PRRD Market Gain	\$2,281.98	\$64,917.82	2744.8%
	PRRD Market Loss	-\$252,821.65	-\$208,013.87	-17.7%
	<b>Total PRRD Cost</b>	<b>-\$1,973,025.36</b>	<b>-\$1,770,052.61</b>	<b>-10.3%</b>

Remaining 6 Streams		2019	2020	% Change
Unit Rate	Total Tonnage	2762.88	2787.13	0.9%
	Collection/Processing Rate	-\$373.14	-\$348.76	-6.5%
	Market Rate	\$0.83	\$23.29	2720.0%
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$372.32</b>	<b>-\$325.47</b>	<b>-12.6%</b>
Stream Cost	Collection/Processing Cost	-\$1,030,948.64	-\$972,044.63	-5.7%
	PRRD Market Gain (100%)	\$2,281.98	\$64,917.82	2744.8%
	PRRD Market Loss (0%)	\$0.00	\$0.00	-
	<b>Total PRRD Cost</b>	<b>-\$1,028,666.66</b>	<b>-\$907,126.81</b>	<b>-11.8%</b>
Market Data	Total Market Value	-\$53,505.54	\$56,434.73	205.5%
	Market Gain	\$20,377.30	\$99,974.58	390.6%
	Market Loss	-\$73,882.84	-\$43,539.85	-41.1%
	Average Market Rate	-\$19.37	\$20.25	204.6%

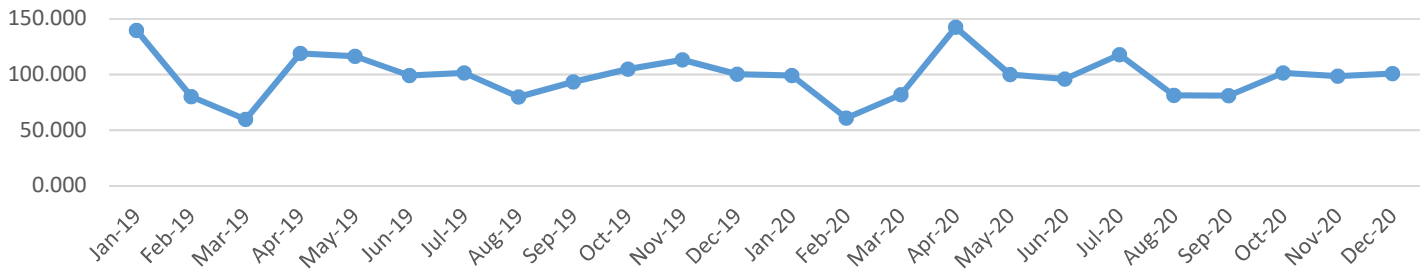
Commingled Curbside		2019	2020	% Change
Unit Rate	Total Tonnage	1207.60	1162.23	-3.8%
	Collection/Processing Rate	-\$458.92	-\$478.77	4.3%
	Market Rate	-\$189.22	-\$172.19	9.0%
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$648.14</b>	<b>-\$650.97</b>	<b>0.4%</b>
Stream Cost	Collection/Processing Cost	-\$554,193.17	-\$556,443.66	0.4%
	PRRD Market Gain (100%)	\$0.00	\$0.00	-
	PRRD Market Loss (100%)	-\$228,498.11	-\$200,129.69	-12.4%
	<b>Total PRRD Cost</b>	<b>-\$782,691.28</b>	<b>-\$756,573.35</b>	<b>-3.3%</b>

Mixed Waste Paper		2019	2020	% Change
Unit Rate	Total Tonnage	557.06	379.10	-31.9%
	Collection/Processing Rate	-\$246.55	-\$259.74	5.4%
	Market Rate	-\$43.66	-\$20.80	52.4%
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$290.21</b>	<b>-\$280.54</b>	<b>-3.3%</b>
Stream Cost	Collection/Processing Cost	-\$137,343.88	-\$98,468.27	-28.3%
	PRRD Market Gain (100%)	\$0.00	\$0.00	-
	PRRD Market Loss (50%)	-\$24,323.54	-\$7,884.18	-67.6%
	<b>Total PRRD Cost</b>	<b>-\$161,667.42</b>	<b>-\$106,352.45</b>	<b>-34.2%</b>

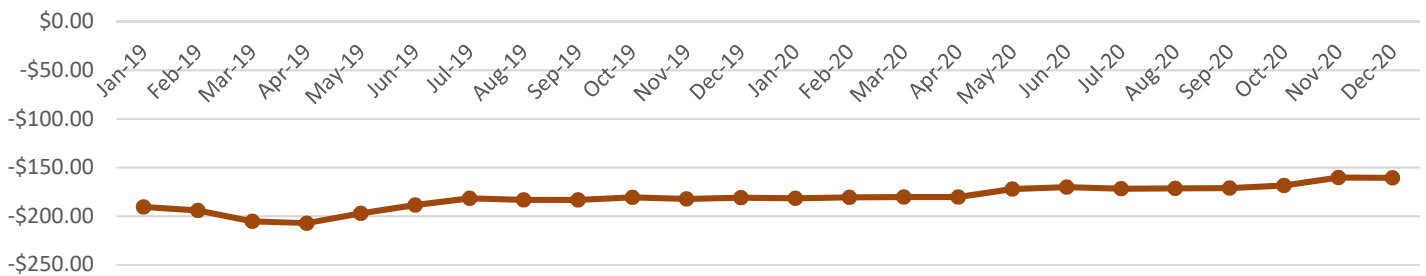
## 2020 Recyclable Stream Data

Commingled Curbside		2019	2020	% Change
Unit Rate	Total Tonnage	1207.60	1162.23	-3.8%
	Collection/Processing Rate	-\$458.92	-\$478.77	4.3%
	Market Rate	-\$189.22	-\$172.28	8.9%
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$648.14</b>	<b>-\$650.97</b>	<b>0.4%</b>
Stream Cost	Collection/Processing Cost	-\$554,193.17	-\$556,443.66	0.4%
	Market Cost (100% Gain   100% Loss)	-\$228,498.11	-\$200,129.69	-12.4%
	<b>Total PRRD Cost</b>	<b>-\$782,691.28</b>	<b>-\$756,573.35</b>	<b>-3.3%</b>
Market Data	Total Market Value	-\$228,498.11	-\$200,129.69	-12.4%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$228,498.11	-\$200,129.69	-12.4%
	Average Market Value/month	-\$19,041.51	-\$16,677.47	-12.4%
	Highest Market Rate (\$/tonne)	-\$180.57	-\$160.08	-11.3%
	Lowest Market Rate (\$/tonne)	-\$206.99	-\$181.55	-12.3%

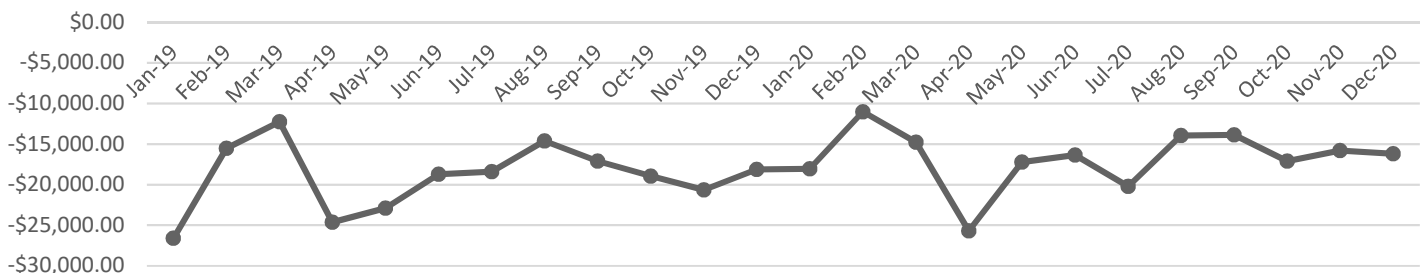
### Commingled Curbside Tonnage



### Commingled Curbside Net Rate Paid/MT



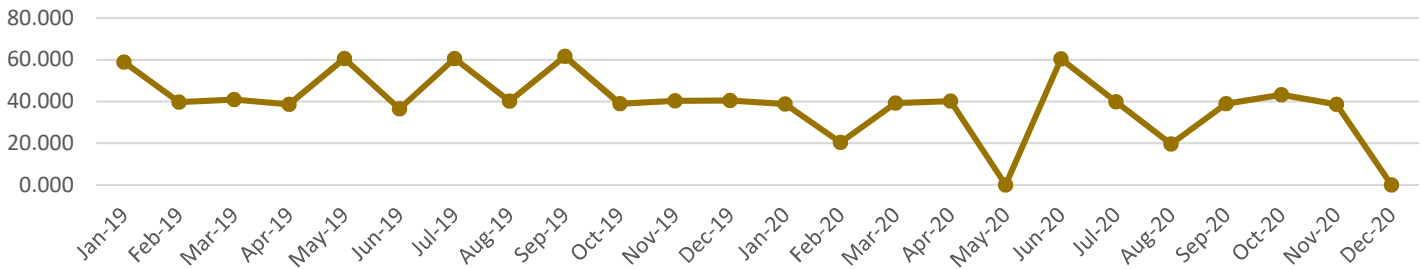
### Commingled Curbside Net Cost / Revenue



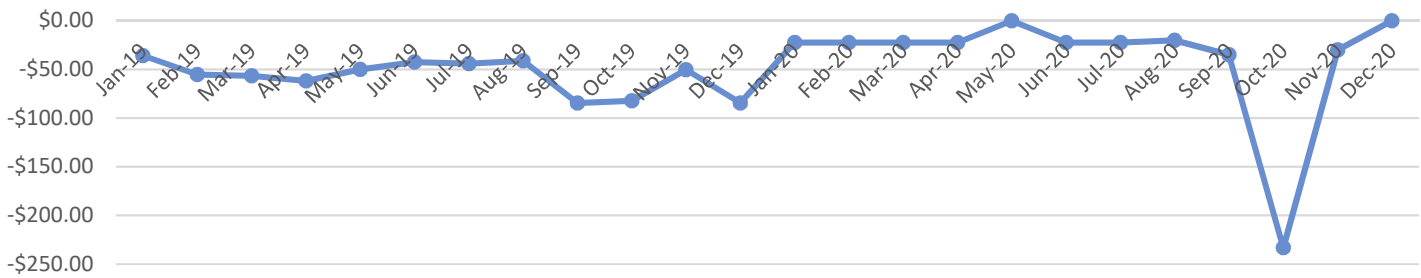
## 2020 Recyclable Stream Data

Mixed Waste Paper		2019	2020	% Change
Unit Rate	Total Tonnage	557.06	379.10	-31.9%
	Collection/Processing Rate	-\$246.55	-\$259.74	5.4%
	Market Rate	-\$43.66	-\$20.80	52.4%
	<b>Average Unit Rate (\$/Tonne)</b>	<b>-\$290.21</b>	<b>-\$280.54</b>	<b>-3.3%</b>
Stream Cost	Collection/Processing Cost	-\$137,343.88	-\$98,468.27	-28.3%
	Market Cost (100% Gain   50% Loss)	-\$24,323.54	-\$7,884.18	-67.6%
	<b>Total PRRD Cost</b>	<b>-\$161,667.42</b>	<b>-\$106,352.45</b>	<b>-34.2%</b>
Market Data	Total Market Value	-\$48,647.17	-\$15,768.36	-67.6%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$48,647.07	-\$15,768.36	-67.6%
	Average Market Value/month	-\$4,053.93	-\$1,576.84	-61.1%
	Highest Market Rate (\$/tonne)	-\$35.77	-\$20.00	-44.1%
	Lowest Market Rate (\$/tonne)	-\$84.67	-\$233.09	175.3%

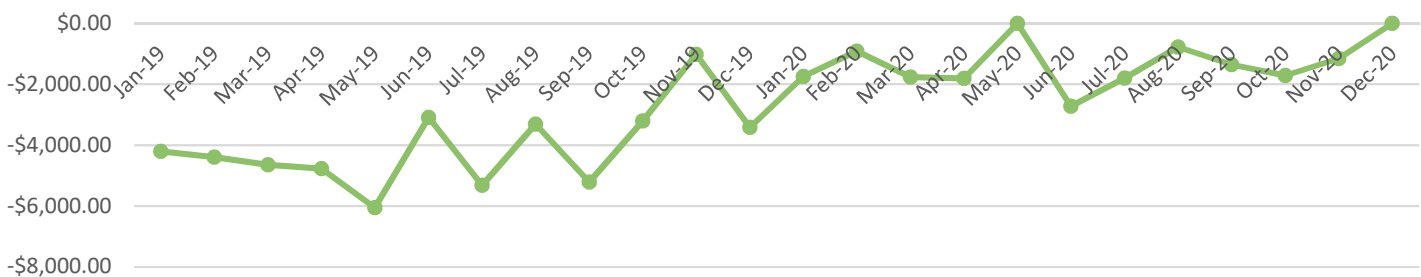
### Mixed Waste Paper Tonnage



### Mixed Waste Paper Net Rate Paid/MT



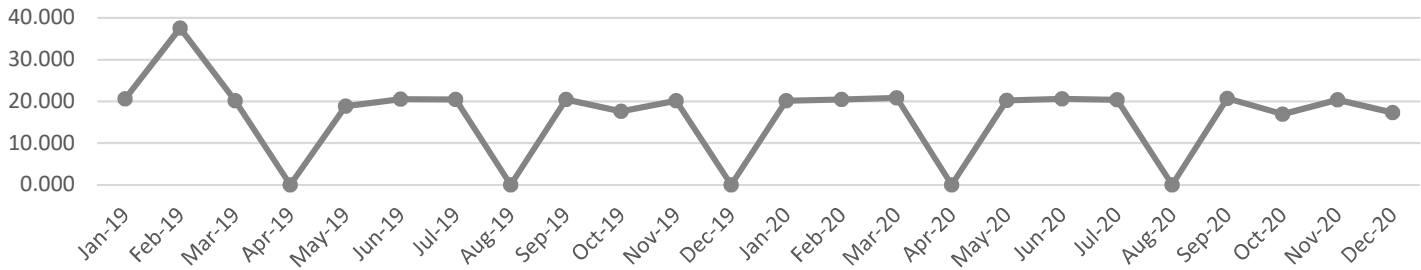
### Mixed Waste Paper Net Cost / Revenue



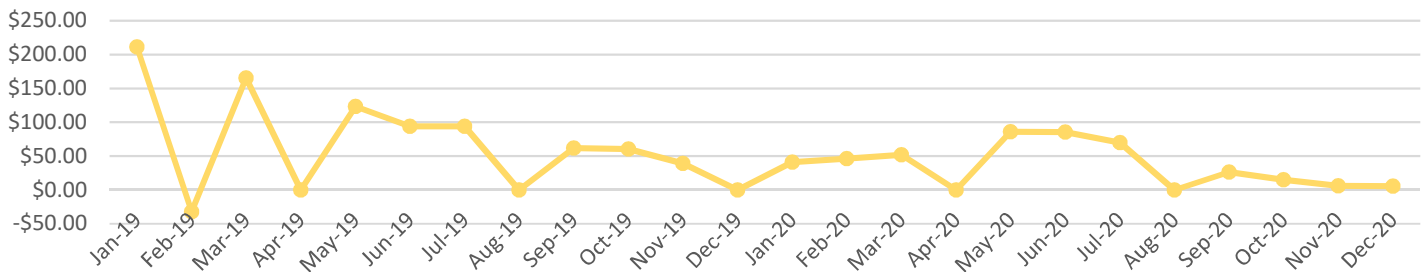
## 2020 Recyclable Stream Data

Shredded Office Paper		2019	2020	% Change
Unit Rate	Total Tonnage	196.29	197.97	0.9%
	Collection/Processing Rate	-\$246.55	-\$256.97	4.2%
	Market Rate	Grouped	Grouped	-
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$237.32</b>	<b>-\$228.09</b>	<b>-3.9%</b>
Stream Cost	Collection/Processing Cost	-\$48,395.79	-\$50,871.54	5.1%
	PRRD Market Cost	\$1,811.89	\$5,716.29	215.5%
	<b>Total PRRD Cost</b>	<b>-\$46,583.91</b>	<b>-\$45,155.25</b>	<b>-3.1%</b>
Market Data	Total Market Value	\$15,777.88	\$8,803.18	-44.2%
	Market Gain	\$16,977.88	\$8,803.18	-48.1%
	Market Loss	-\$1,200.00	\$0.00	-100.0%
	Average Market Value	\$1,753.10	\$880.32	-49.8%
	Average Market Rate	\$90.89	\$43.37	-52.3%
	Highest Market Rate (\$/tonne)	\$211.39	\$86.06	-59.3%
	Lowest Market Rate (\$/tonne)	-\$31.94	\$5.48	-117.2%

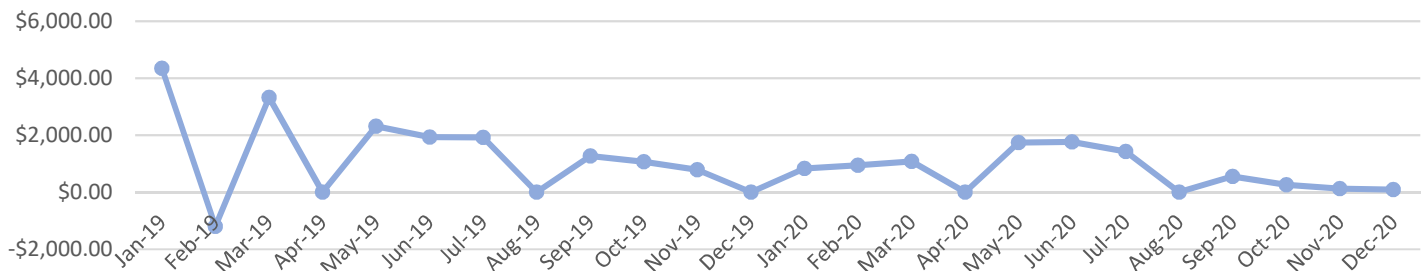
### Shredded Office Paper Tonnage



### Shredded Office Paper Net Rate Paid/MT



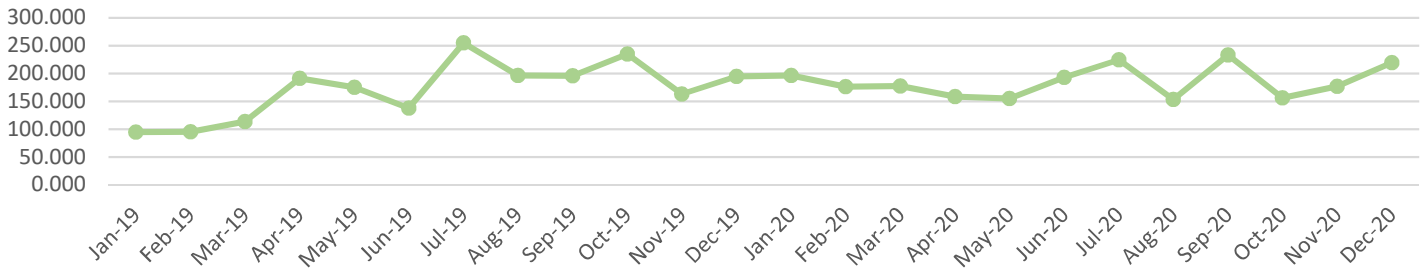
### Shredded Office Paper Net Cost / Revenue



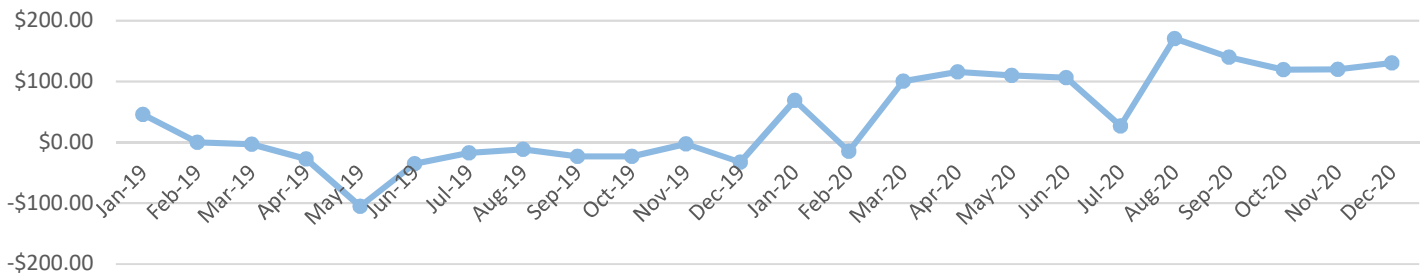
## 2020 Recyclable Stream Data

Old Corrugated Cardboard		2019	2020	% Change
Unit Rate	Total Tonnage	2048.32	2221.36	8.4%
	Collection/Processing Rate	-\$249.48	-\$262.41	5.2%
	Market Rate	Grouped	Grouped	-
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$249.25</b>	<b>-\$235.81</b>	<b>-5.4%</b>
Stream Cost	Collection/Processing Cost	-\$511,014.05	-\$582,912.94	14.1%
	PRRD Market Cost	\$470.10	\$59,094.78	12470.8%
	<b>Total PRRD Cost</b>	<b>-\$510,543.95</b>	<b>-\$523,818.16</b>	<b>2.6%</b>
Market Data	Total Market Value	-\$18,362.99	\$85,084.98	563.4%
	Market Gain	\$3,218.56	\$91,007.00	2727.6%
	Market Loss	-\$21,581.55	-\$5,922.02	-72.6%
	Average Market Value	-\$1,530.25	\$7,090.42	563.4%
	Average Market Rate	-\$8.96	\$99.49	1209.7%
	Highest Market Rate (\$/tonne)	\$45.86	\$170.60	272.0%
	Lowest Market Rate (\$/tonne)	-\$105.20	-\$14.84	85.9%

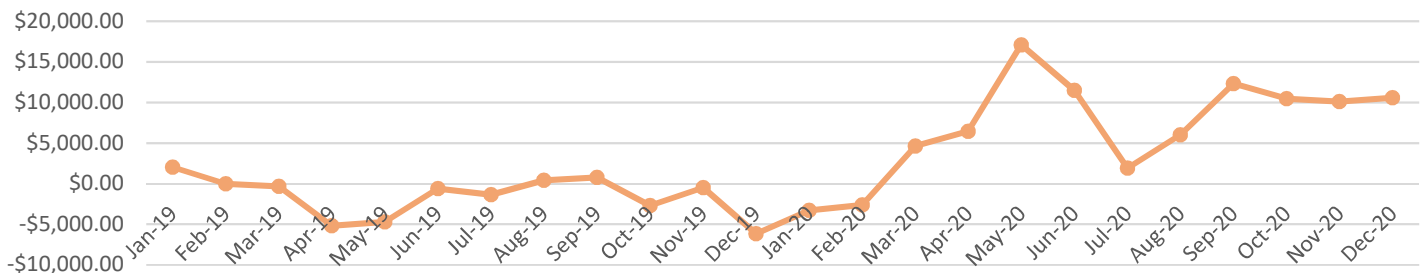
### Old Corrugated Cardboard Tonnage



### Old Corrugated Cardboard Net Rate Paid/MT



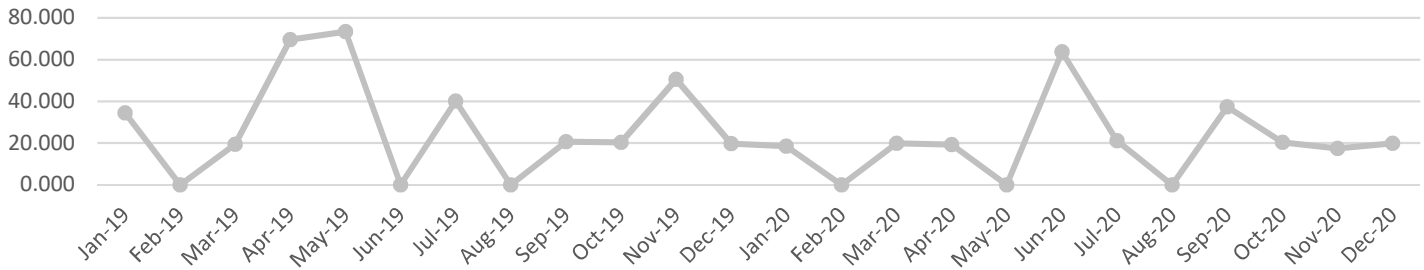
### Old Corrugated Cardboard Net Cost / Revenue



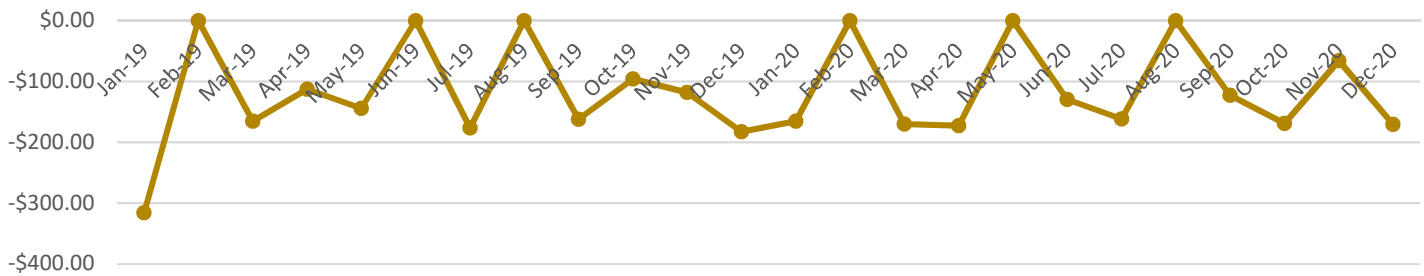
# 2020 Recyclable Stream Data

Hard Plastics (INJ -7)		2019	2020	% Change
Unit Rate	Total Tonnage	348.36	237.88	-31.7%
	Collection/Processing Rate	-\$1,294.21	-\$1,345.70	4.0%
	Market Rate	Grouped	Grouped	-
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$1,294.21</b>	<b>-\$1,345.70</b>	<b>4.0%</b>
Stream Cost	Collection/Processing Cost	-\$450,854.88	-\$320,118.99	-29.0%
	PRRD Market Cost	\$0.00	\$0.00	-
	<b>Total PRRD Cost</b>	<b>-\$450,854.88</b>	<b>-\$320,118.99</b>	<b>-29.0%</b>
Market Data	Total Market Value	-\$45,794.10	-\$34,017.83	25.7%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$45,794.10	-\$34,017.83	25.7%
	Average Market Value	-\$5,088.23	-\$3,401.78	33.1%
	Average Market Rate	-\$131.46	-\$147.36	-12.1%
	Highest Market Rate (\$/tonne)	-\$95.78	-\$65.67	31.4%
	Lowest Market Rate (\$/tonne)	-\$315.94	-\$172.73	45.3%

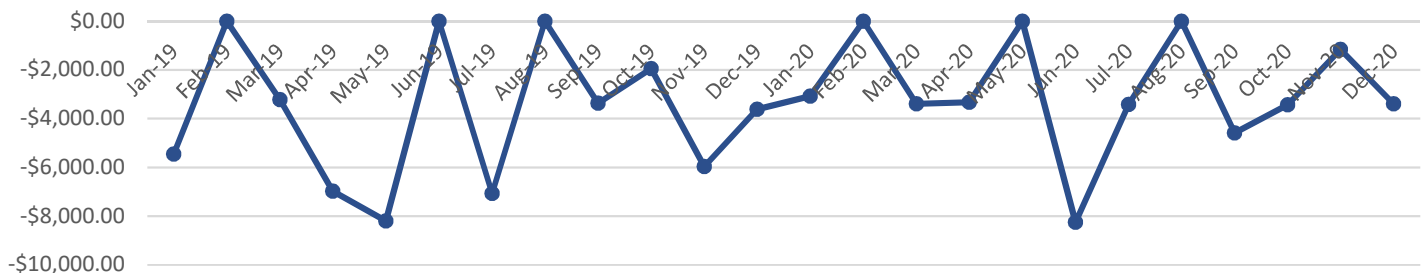
## Hard Plastics (INJ 1-7) Tonnage



## Hard Plastics (INJ 1-7) Net Rate Paid/MT



## Hard Plastics (INJ 1-7) Net Cost / Revenue

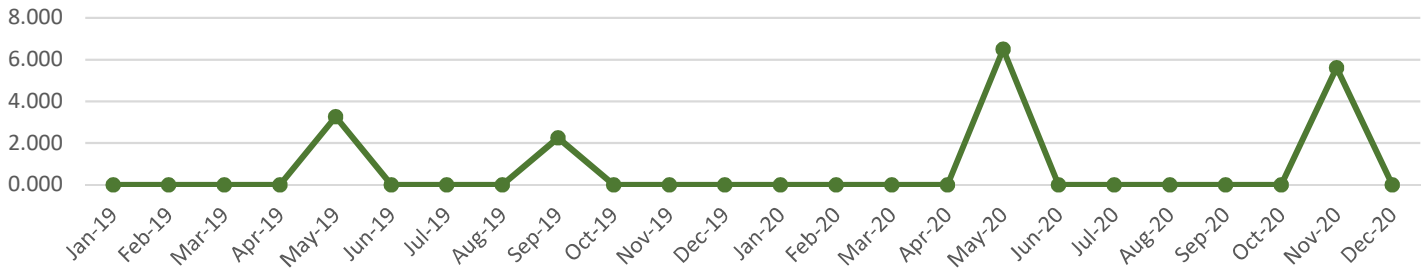




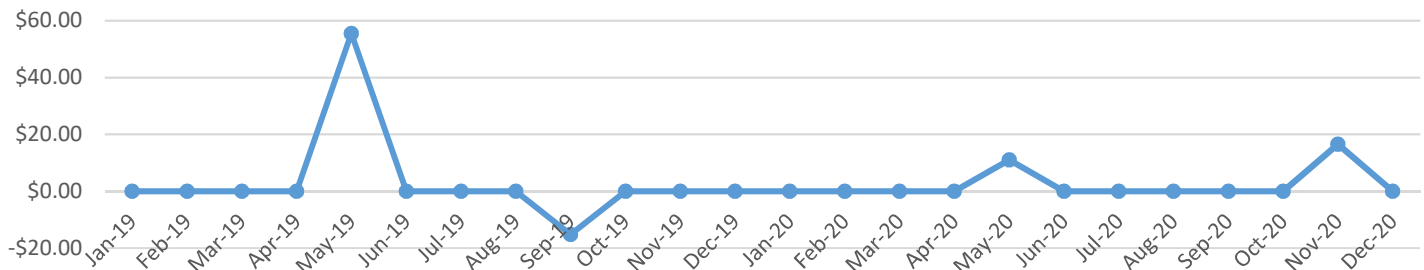
# 2020 Recyclable Stream Data

Metal (Tin)		2019	2020	% Change
Unit Rate	Total Tonnage	5.51	12.11	119.9%
	Collection/Processing Rate	-\$310.31	-\$324.39	4.5%
	Market Rate	Grouped	Grouped	-
	Average Unit Rate (\$/tonne)	-\$310.31	-\$315.58	1.7%
Stream Cost	Collection/Processing Cost	-\$1,708.88	-\$3,928.38	129.9%
	PRRD Market Cost	\$0.00	\$106.75	100.0%
	Total PRRD Cost	-\$1,708.88	-\$3,821.62	123.6%
Market Data	Total Market Value	\$146.77	\$164.40	12.0%
	Market Gain	\$180.86	\$164.40	-9.1%
	Market Loss	-\$34.09	\$0.00	-100.0%
	Average Market Value	\$73.39	\$82.20	12.0%
	Average Market Rate	\$26.65	\$13.78	-48.3%
	Highest Market Rate (\$/tonne)	\$55.51	\$16.54	-70.2%
	Lowest Market Rate (\$/tonne)	-\$15.16	\$11.02	172.7%

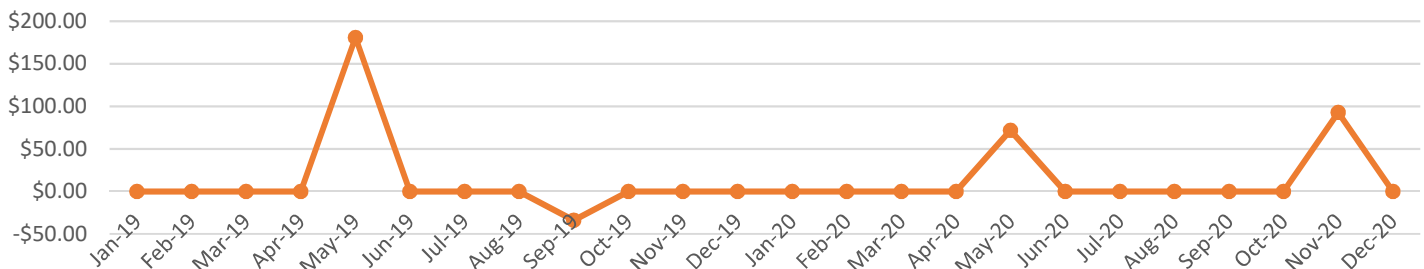
## Metal (Tin) Tonnage



## Metal (Tin) Net Rate Paid/MT



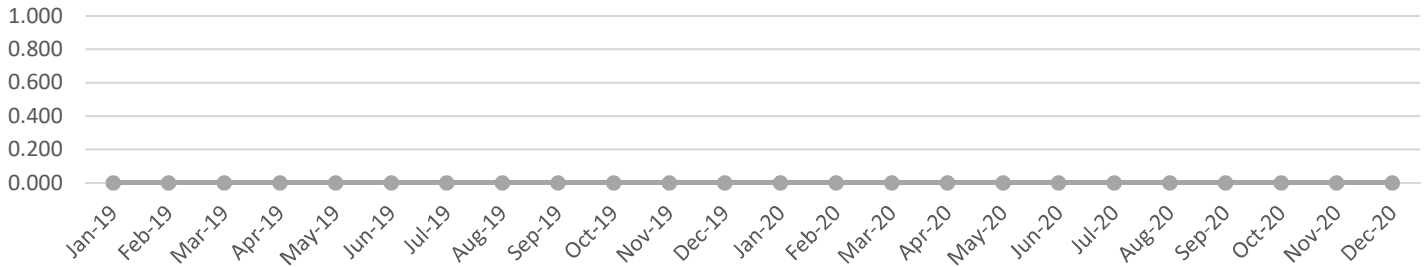
## Metal (Tin) Net Cost / Revenue



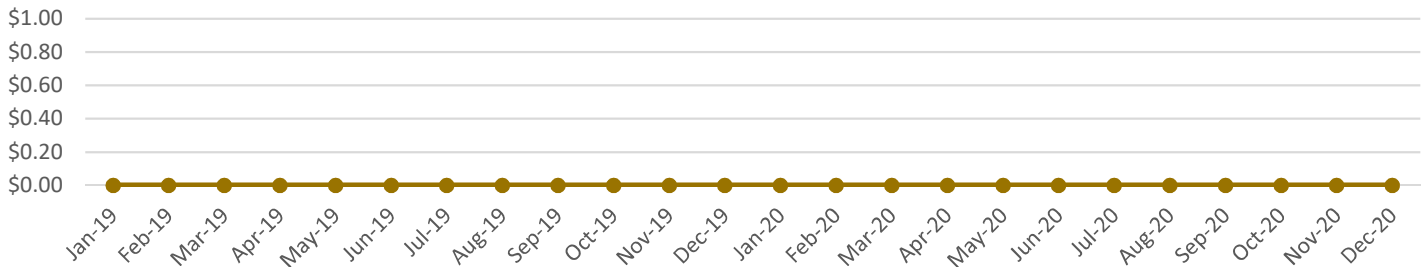
## 2020 Recyclable Stream Data

Styrofoam		2019	2020	% Change
Unit Rate	Total Tonnage	0.00	0.00	N/A
	Collection/Processing Rate	-\$1,294.21	0	N/A
	Market Rate	Grouped	Grouped	N/A
	Average Unit Rate (\$/tonne)	#DIV/0!	#DIV/0!	N/A
Stream Cost	Collection/Processing Cost	\$0.00	\$0.00	N/A
	PRRD Market Cost	\$0.00	\$0.00	N/A
	Total PRRD Cost	\$0.00	\$0.00	N/A
Market Data	Total Market Value	\$0.00	\$0.00	N/A
	Market Gain	\$0.00	\$0.00	N/A
	Market Loss	\$0.00	\$0.00	N/A
	Average Market Value	\$0.00	\$0.00	N/A
	Average Market Rate	\$0.00	\$0.00	N/A
	Highest Market Rate (\$/tonne)	\$0.00	\$0.00	N/A
	Lowest Market Rate (\$/tonne)	\$0.00	\$0.00	N/A

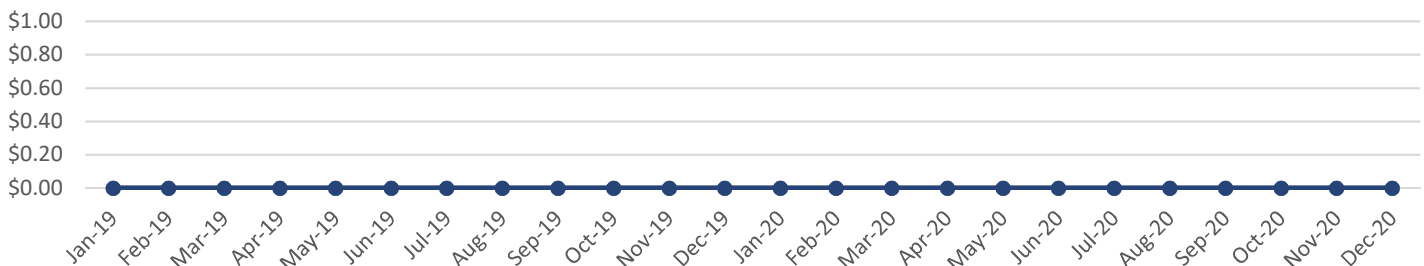
### Styrofoam Tonnage



### Styrofoam Net Rate Paid/MT

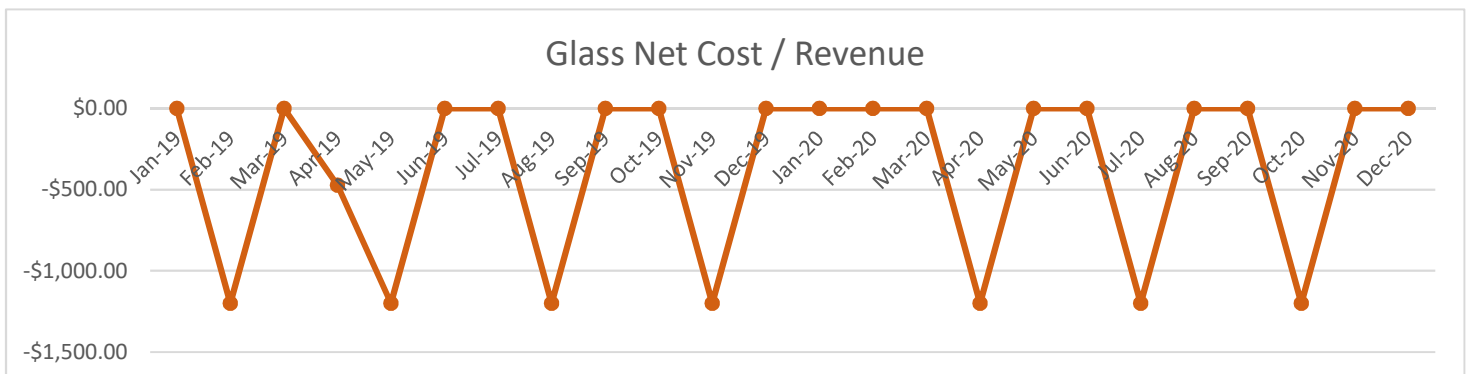
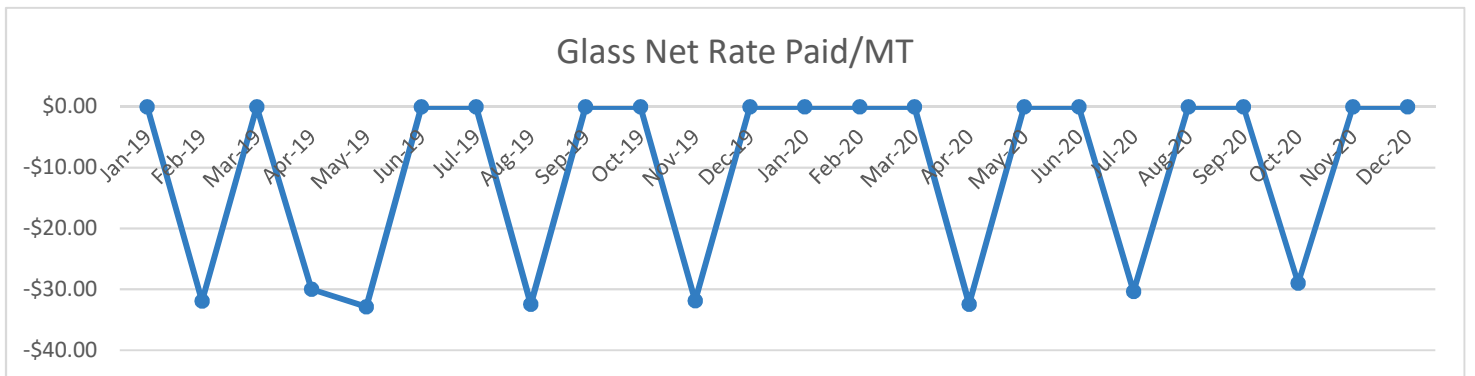
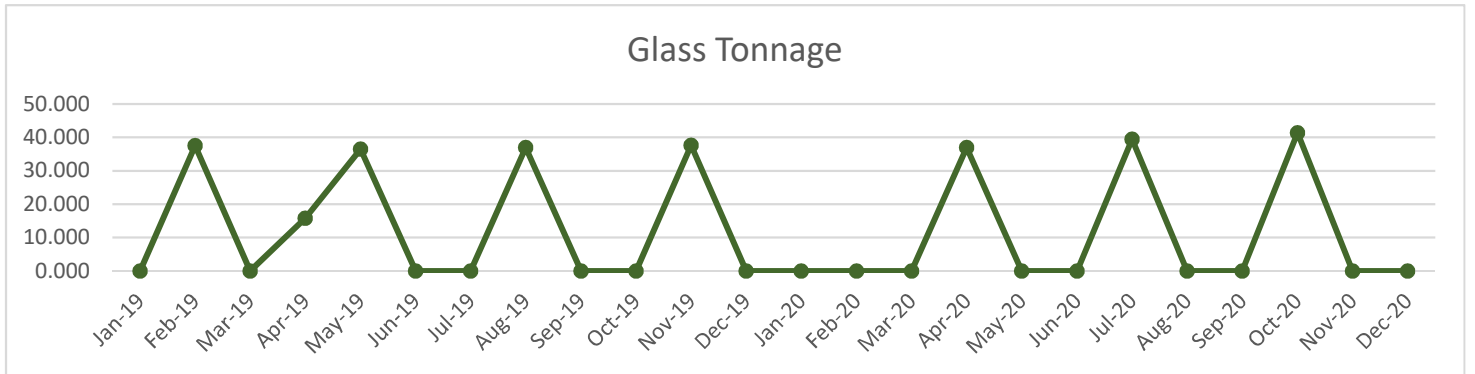


### Styrofoam Net Cost / Revenue



# 2020 Recyclable Stream Data

Glass		2019	2020	% Change
Unit Rate	Total Tonnage	164.40	117.81	-28.3%
	Collection/Processing Rate	-\$115.42	-\$120.64	4.5%
	Market Rate	Grouped	Grouped	-
	<b>Average Unit Rate (\$/tonne)</b>	<b>-\$115.42</b>	<b>-\$120.64</b>	<b>4.5%</b>
Stream Cost	Collection/Processing Cost	-\$18,975.05	-\$14,212.78	-25.1%
	PRRD Market Cost	\$0.00	\$0.00	-
	<b>Total PRRD Cost</b>	<b>-\$18,975.05</b>	<b>-\$14,212.78</b>	<b>-25.1%</b>
Market Data	Total Market Value	-\$5,273.10	-\$3,600.00	31.7%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$5,273.10	-\$3,600.00	31.7%
	Average Market Value	-\$1,054.62	-\$1,200.00	-13.8%
	Average Market Rate	-\$32.07	-\$30.62	4.5%
	Highest Market Rate (\$/tonne)	-\$30.00	-\$29.01	-3.3%
	Lowest Market Rate (\$/tonne)	-\$32.88	-\$32.48	-1.2%





## Solid Waste Committee Terms of Reference

### 1. Background:

- 1.1 The Peace River Regional District (PRRD) developed a Regional Solid Waste Management Plan that was approved in 2009 and is being amended in 2020-2021. The current 2009 Plan addresses three key areas:
- Greater efficiency of programs and services.
  - Greater focus on reducing, reusing, and recycling to protect our environment.
  - Greater focus on sustainable management to protect future generations.

### 2. Role of the Committee:

- 2.1 With the understanding that Solid Waste Management is a regional function and represents our largest single budget item; the goals of the Solid Waste Committee (SWC) is to act as an advisory committee for the Regional District solid waste management function and identify concerns and issues that may arise.

### 3. Structure of the Solid Waste Committee:

- 3.1 Members: The SWC will consist of six (6) Board members as appointed by the Chair and will consist of:
- Director from the City of Dawson Creek, or alternate director;
  - Director from the City of Fort St. John, or alternate director;
  - Director or alternate director from one additional municipality in the South Peace (District of Chetwynd, or Village of Pouce Coupe or District of Tumbler Ridge);
  - Director or alternate director from one additional municipality in the North Peace (District of Hudson's Hope or District of Taylor);
  - Director or alternate director from the North Peace (Electoral Area 'B' or 'C');
  - Director or alternate director from South Peace (Electoral Area 'D' or 'E');
  - PRRD Board Chair, as ex-officio member;
  - Appropriate Regional District staff person – non-voting.
- 3.2 The meetings will be chaired by a Committee member elected by the Committee participants on an annual basis.
- 3.3 In the absence of the Chair, a member elected Vice-Chair by the Committee on an annual basis will chair the meetings.

### 4. Meetings:

- 4.1 The Committee shall meet on a monthly basis, with the meeting schedule approved in conjunction with the Board meeting schedule each year;
- 4.2 Meetings will be open to the public;
- 4.3 Items for the regular agenda must be provided to Administration one (1) week prior to the scheduled meeting;
- 4.4 The PRRD Board Chair will be given a copy of all Committee meeting agendas;
- 4.5 The Committee has the authority to add or reschedule its meetings as necessary.
- 4.6 The Committee has the authority to call special committee meetings as necessary.

### 5. Procedures:

- 5.1 Quorum – at least one-half of the members of the Committee;
- 5.2 Voting – all options and recommendations shall be determined by majority vote, with recommendations and options being forwarded to the Regional Board for consideration and action.

Date Committee Established		Board Resolution #	
Date TOR Approved by Board	May 26, 2016	Board Resolution #	RD/16/05/20 (26)
Amendment Date	January 14, 2021	Board Resolution #	RD/21/01/14
Amendment Date		Board Resolution #	
Amendment Date		Board Resolution #	