



# Shoreway Capital Projects Update



SBWMA Board of Directors

**October 2021 Update**

*Original 2021 Capex Budget presented  
to Board on March 23, 2021*

# Presentation Outline

- Refresh CIP Budget & Schedule
- O2E Project Update
- MRF Equipment Update
  - Phase I
  - Phase II & III
- Other Shoreway Projects

# CIP Project Costs & Source of Funds

<u>Date</u>	<u>CIP Project</u>	<u>Cost</u>	<u>Status</u>
2019	MRF Sort System Upgrades Phase I	\$7M	Pending BOD consideration
2020	O2E Full-Scale Project	\$10-15M	Conditionally approved by BOD
2020	MRF Sort System Upgrades Phase II	<u>\$5-8M</u>	Pending BOD consideration
	<b>Capital Projects Estimated Cost</b>	<b>\$22-30M</b>	
	<b>Agency Sources of Funds</b>	<b>Amount</b>	<b>Status</b>
	Bond Refunding Savings	\$10M	Pending refunding process completion in 2019
	Optional Funds from Bond Refunding	\$10M	Additional funds from extending Bond term
	Capital Reserve	<u>\$5.5M</u>	Mid-Year 18/19 Budget projected balance
	<b>Total of Estimated Funds</b>	<b>\$25.5M</b>	

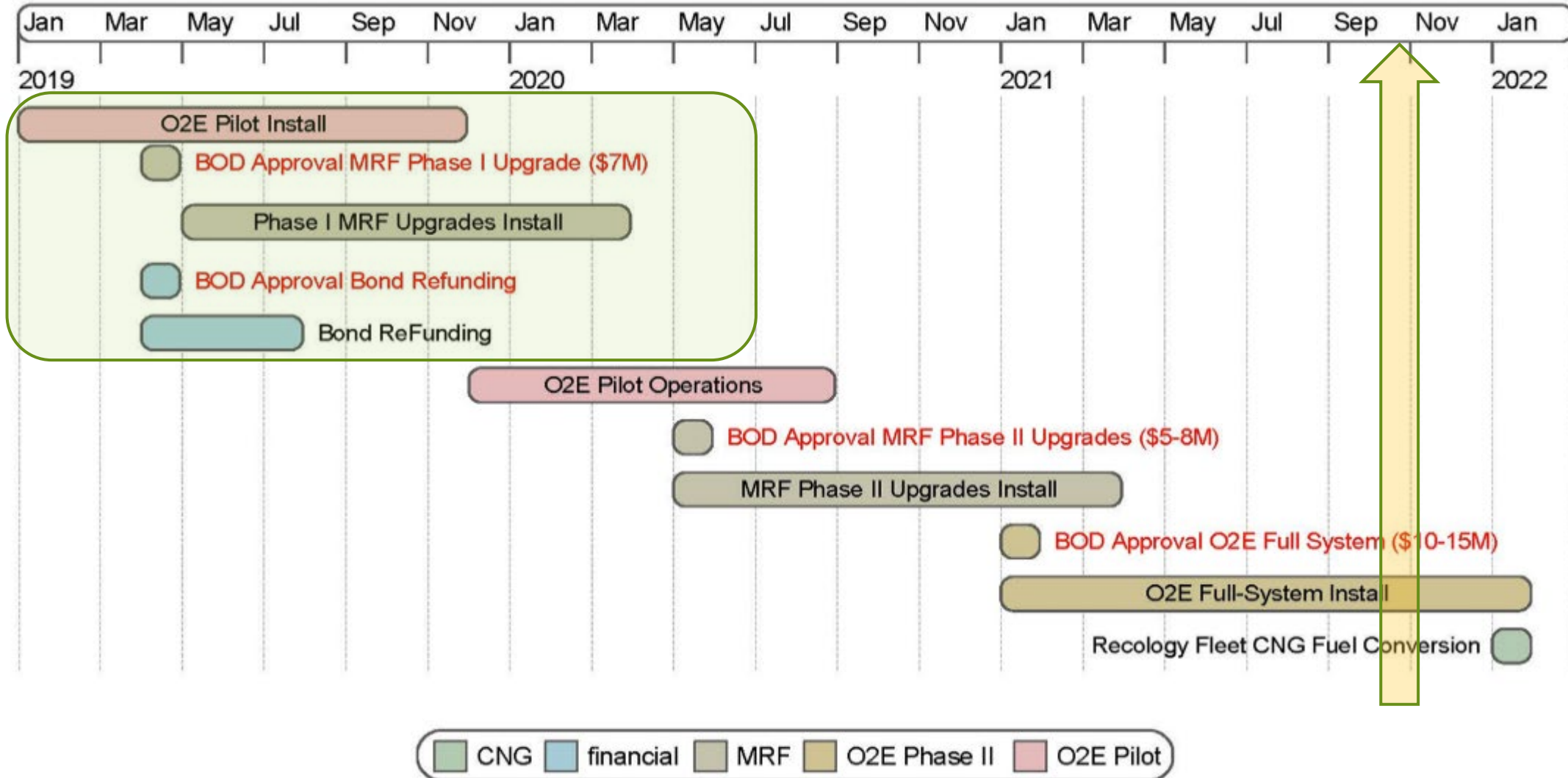
# CIP Projected Expenditures Through 2021

*Presented on March 23 2021*

Bond Project Funding Projected Spending		
2019 Bond Project Funding Beginning Balance		\$ 20,000,000
MRF Phase I (inc sales tax)	\$ 6,303,975	
O2E Pilot (net of grant proceeds)	\$ 1,535,000	
MRF Phase II Design & Assessment (CY2021 Budget)	\$ 1,100,000	
O2E Full Scale Assessment (CY2021 Budget)	\$ 160,000	
Projected Spending Through CY2021	\$ 9,098,975	
<b>Projected Bond Fund Balance End of 2021</b>		<b>\$ 10,901,025</b>

Originally presented to Board in 2018, Reviewed ZWC June, 2020

# Capital Project Approval & Implementation Schedule



# O2E Goals & Phasing

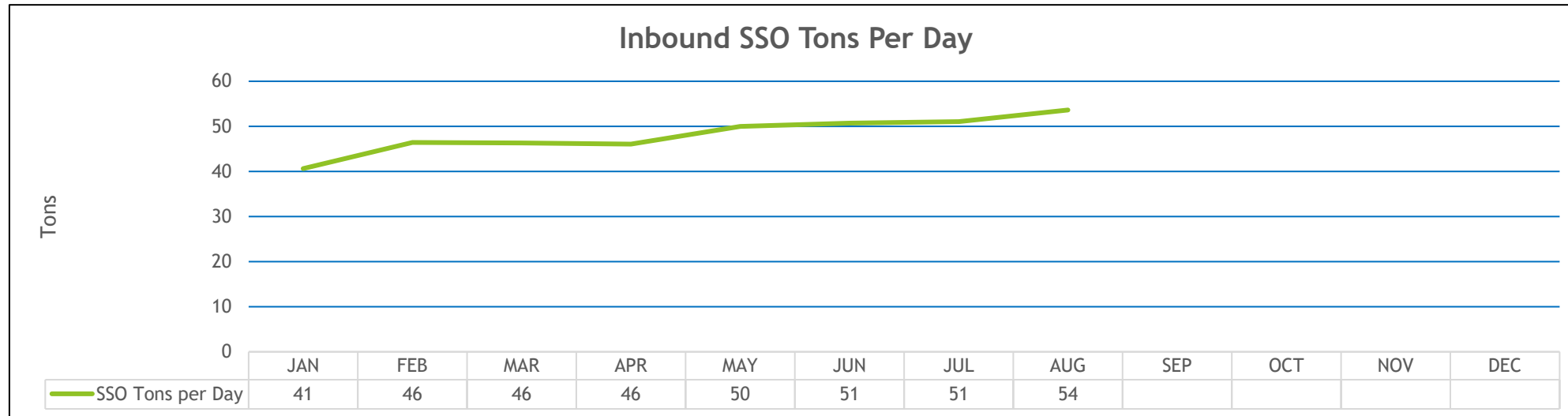
## Phase 1: O2E Pilot

- ☑ *Validate O2E system for MSW processing*
- ☑ *Validate O2E system diversion potential & AB1383 compliance*
- ☑ *Validate O2E system costs compared to disposal/composting*
- ☑ *Validate proof of concept for MSW organics to WWTP AD*
  - *Provide basis for expanding WWTP partnerships*

## O2E “Regular” Operations

- *Consistent deliveries to WWTP partners*
- *Complete Off-Take agreements with WWTP*
- *Expand system processing to match SSO under new 1383 collection regime*
  - *Additional processing and delivery equipment*

# Organics to Energy – Inbound SSO Tons to Shoreway





# MRF Upgrades Project - Goals & Phasing

## MRF Phase 1:

- ☑ *Update system hardware and software*
- ☑ *Improved processing capacity / reduced overtime*
- ☑ *Reduced Battery fire risk*
- ☑ *Addressed fiber quality concerns*

## MRF Phase II

- *Increase recovery of CRV from Residue line*
- *Reduce contract-sorter labor expense*
- *Realtime and trend monitoring of system production and quality*

## MRF Phase III

- *System updates and improvements to be designed with Operations Contractor input during new Operating Agreement term*

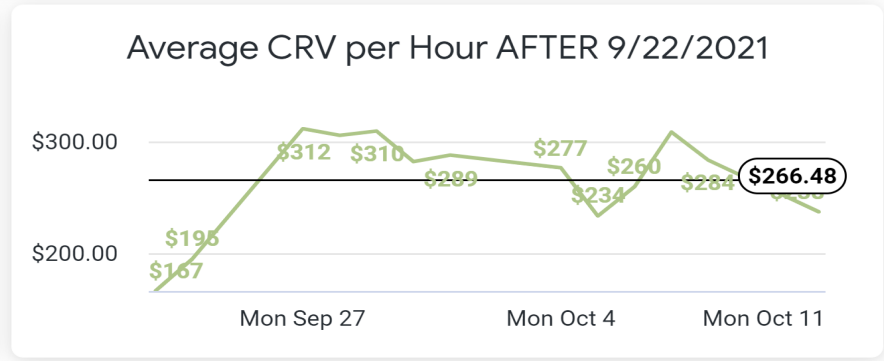
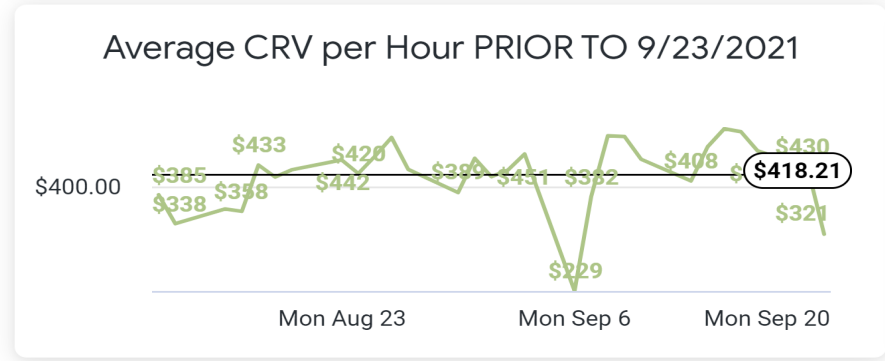
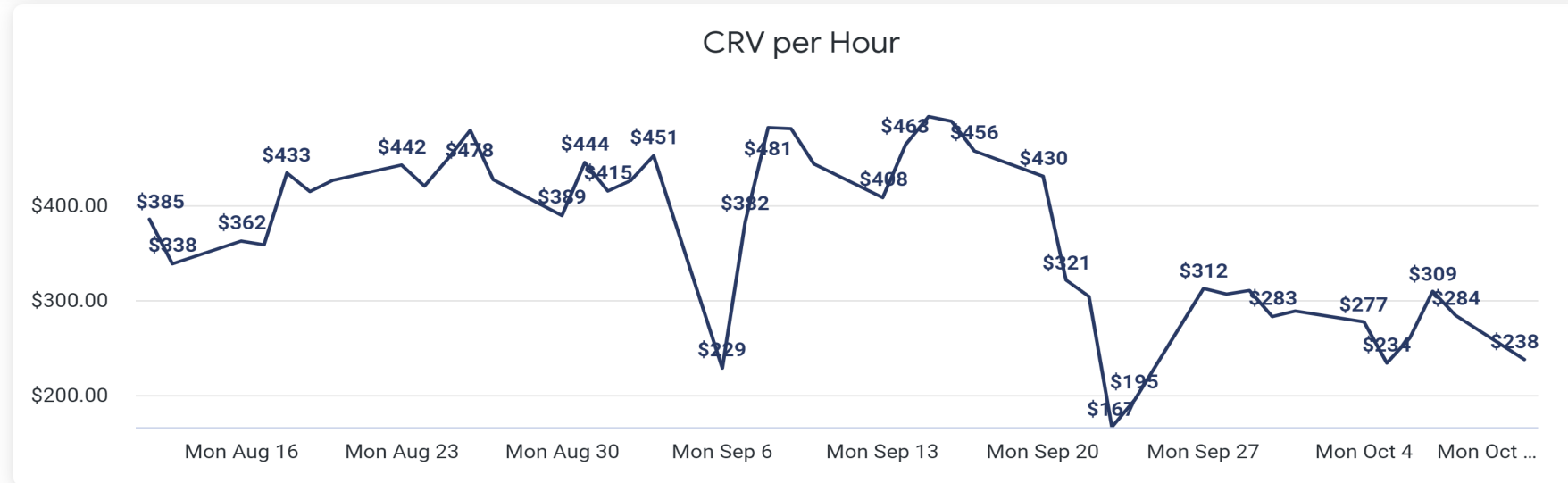


# MRF Upgrades Project - Goals & Phasing

Rethink — San Carlos Base Camp

## September 2021 Adjustment Deep Dive

16m ago



# Other Shoreway Projects

- **UST Replacement Project** *(engineering started)*
- **MRF Sort System infeed pedestal crane** *(pending analysis)*
- **Shoreway Site assessment** *(pending analysis)*
  - Operations Contractor truck maintenance area
  - Parts and equipment storage area(s)
  - Paving of Shoreway Operations Area
  - Transfer Station odor mitigation system *(pending CARB regulations)*