G-2 Attachment B Page 1 of 10

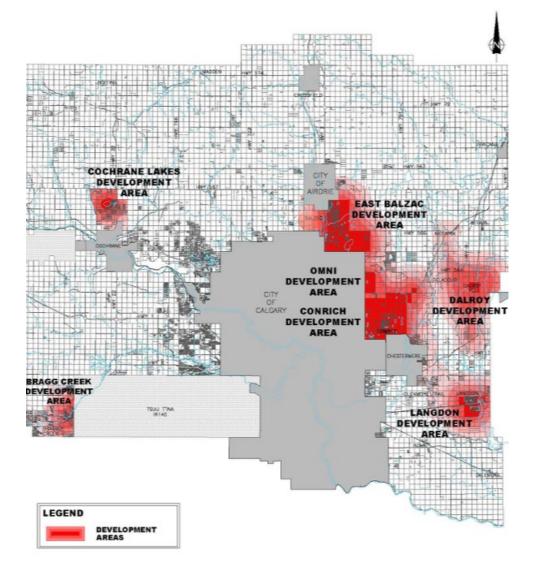
## Regional Water & Wastewater Off-site Levy Bylaw Proposed Updates

July 23, 2024

ROCKY VIEW COUNTY Jeannette Lee, Acting Executive Director, Operations Manager Capital & Engineering Services

#### G-2 Attachment B Page 2 of 10

# Scope of Work



**ROCKY VIEW** 

COUNTY

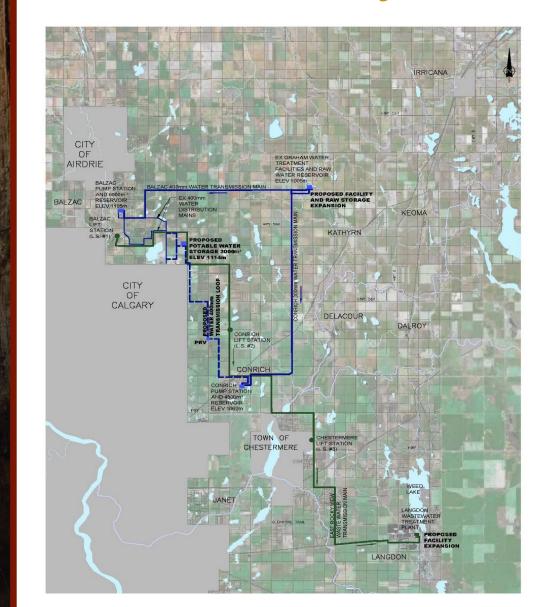
### What's Changed Since 2020 Bylaw Adopted

- Extension of services to West Balzac
- Completed the Stage 1 upgrade of the Langdon WWTP to a capacity of 5,850 m3/day
- Acquisition of the Blazer Water System
- Acquisition of the Bearspaw Wastewater System
- Acquisition of the Cochrane Lakes Water System

### **Proposed Scope**

- Update Langdon WWTP technology for Stage 2 upgrades to meet ultimate capacity of 8,000 m3/day
- Update Cost to Current Year in All Levy Schedules
- Review of Allocated Capacity of System Components
- Introduce West Balzac Servicing Area and schedule
- Assessment of the Blazer Water System
- Assessment of the Bearspaw Wastewater System
- Assessment of the New Cochrane Lakes Water Servicing Area

# East Rocky View Water & Wastewater



ROCKY VIEW COUNTY

### **Current Service Area Includes:**

- Langdon (Wastewater Only)
- Conrich
- Omni
- East Balzac

### **Main Facilities:**

- Langdon WWTP
- Graham Creek WTP
- ERVWWTM & Regional Lift Stations
- Potable Reservoirs (Conrich & Balzac)
- Water Transmission Mains
- Back-up Loop

## **Recently completed:**

 Extension of water and wastewater services to West Balzac

### G-2 Attachment B Page 4 of 10

# New West Balzac Wastewater Servicing



ROCKY VIEW COUNTY

### **Extension Wastewater Servicing:**

- 350 mm HDPE sanitary forcemain
- Lift Station
- Stage 1: Capacity of 1,000 m3/day
- Stage 2: Capacity of 2,240 m3/day

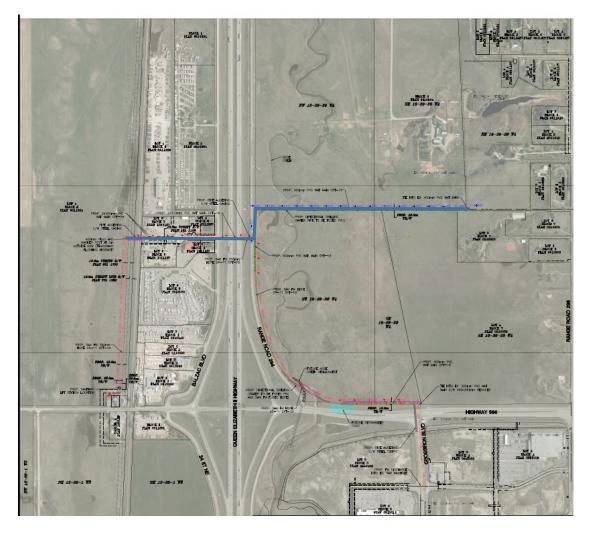
### **Levy Calculation**

Original Capital Budget:	\$5,084,547.00
Future Lift Station Pump Upgrade	\$ 300,000.00
Total Recoverable	\$5,384,547.00
Total Estimated Cost to Levy	\$5,384,547.00

Levy Cost Calculation	\$ 2,403.82/m3/day
Remaining Capacity to Levy	2,240 m3/day
Capacity Committed (average day flow)	0 m3/day
Capacity (average day flow)	2,240 m3/day

### G-2 Attachment B Page 5 of 10

# **New West Balzac Water Servicing**



### **Extension Wastewater Servicing:**

- 400 mm water feeder main
- Target Capacity of 2,240 m3/day

### Levy Calculation

Levy Cost Calculation	\$ 2,011.94/m3/day
Remaining Capacity to Levy	2,240 m3/day
Capacity Committed (average day flow)	0 m3/day
Capacity (average day flow)	2,240 m3/day
Total Estimated Cost to Levy	\$4,506,755.50
Total Recoverable	\$4,506,755.50
Original Capital Budget:	\$4,506,755.50



# Langdon WWTP Schedule Update

What's changed since 2020 bylaw adopted?

## Stage 1:

Introduction of new technology that resulted in a shift from the Continuous Flow, Constant Level SCR to a Moving Bed Biofilm Reactor (MBBR) system to increase capacity to 5,850 m3/day. This included the conversion of the existing SBR #2 to a MBBR system.

## Stage 2:

Convert SBR 1 to a MBBR system to provide treatment for the ultimate 8,000 m3/day capacity.

Target Average Day Capacity	8,000 m3/day
Total Committed Flow	5,070 m3/day
Remaining Capacity	2,930 m3/day
Total Recoverable	\$19,736,195
Upgrade Cost Estimate	\$3,565,000
Total Levy Costs	\$23,301,195
Levy Rate	\$7,951.66 m3/day



## New Cochrane Lakes Water & Wastewater Servicing



ROCKY VIEW COUNTY

### **Existing Horse Creek Water & Wastewater Servicing:**

- WTP capacity is 2,488 m3/day
- Wastewater flow to the Town of Cochrane is limited to 48 l/s (4,233 m3/day) due to constraints within the Town's internal system.
- Cost Contribution and Connection Agreement with the developers within the area for yearly payments or contributions towards the water system's debt payment.
- Wastewater system schedule has been updated

Target Average Day Capacity	1,049 m3/day
Total Committed Flow	258 m3/day
Remaining Capacity	790 m3/day
Total Recoverable	\$2,073,487
Upgrade Cost Estimate	\$
Total Levy Costs	\$2,073,487
Levy Rate	\$2,624.67 m3/day

#### G-2 Attachment B Page 8 of 10

# Proposed Updated Schedule of Levy

Offsite Levy Schedule	Cost	Service Area Map
WASTEWATER LEVIES	per m <sup>3</sup>	
Schedule C-1: Langdon WWTP	\$ <del>8,437.88</del> \$7,951.66	B-1
Schedule C -2: ERVWWTM & Regional Lift Stations	<del>\$7,599.49</del>	B-2
Schedule C -3: Langdon Wastewater Utilities: Area 1: Area 2: Area 3:	\$ <del>1,332.21</del> \$2,003.30 \$ <del>1,063.76</del> \$2,112.70 \$ <del>633.73</del> \$690.74	B-3
Schedule C -4: Dalroy Regional LS and Wastewater Transmission Main	<del>\$26,359.42</del>	B-4
Schedule C -5: Cochrane Lakes Wastewater	<del>\$2,395.85</del>	B-5
POTABLE WATER LEVIES		
Schedule C -6: Graham Creek WTP & RWR	<del>\$9,715.50</del>	B-6
Schedule C -7a: East Balzac Transmission Main (Base)	\$ <del>926.12</del> \$1,071.86	B-7a
Schedule C -7b: East Balzac Transmission Main (Oversize)	\$244.23 \$323.55	B-7b
Schedule C -8: East Balzac Pump Station & Reservoir and RR293 Loop	<del>\$1,157.81</del>	B-8
Schedule C -9a: Conrich Transmission Main (Base)	<del>\$1,247.61</del>	B-9a
Schedule C -9b: Conrich Transmission Main (Oversize)	\$141.92 \$183.13	B-9b
Schedule C -10: Conrich Pump Station & Reservoir	<del>\$2,419.0</del> 4 <b>\$3,725.73</b>	B-10
Schedule C -11: East Rocky View Back-Up Loop	<del>\$3,613.97</del>	B-11

ROCKY VIEW COUNTY

Offsite Levy Schedule	Cost	Service Area Map
BRAGG CREEK LEVIES		
Schedule C-12a: Bragg Creek Wastewater Treatment Plant	\$ <del>23,727.68</del>	B-12a
Schedule C-12b: Bragg Creek WTP & PWR	\$ <u>22,600.90</u> \$24,695.98	B-12b
WEST BALZAC LEVIES		
Schedule C-13a: West Balzac Wastewater Lift Station and Forcemain	\$2,408.28	B-13a
Schedule C-13b: West Balzac Water Transmission Main	\$2,011.94	B-13b

### G-2 Attachment B Page 9 of 10

## Next Steps....

- Stakeholder Consultation on Bylaw
- Website Supporting Information
- Engage industry representatives and stakeholders on updates/changes
- Final Edits & Consolidate Feedback
- Prepare final bylaw package for Council consideration
- Bylaw would then apply to development after the date of adoption 2025





# **Comments and Questions**

