

# Bralorne Sewer Project

Community Information Meeting

Bralorne Fire Hall

June 28<sup>th</sup> 2018



**SQUAMISH - LILLOOET**  
REGIONAL DISTRICT

# Agenda



**SQUAMISH - LILLOOET**  
REGIONAL DISTRICT

- 1. Brief history of the Bralorne Sewer system**
- 2. Current operations and wastewater discharge**
- 3. Overview of project**
  - What has been completed**
  - What is outstanding**
- 4. Options to move forward**
- 5. Questions**

# Bralorne Sewer Background

- **Constructed in the early 1900's by the mining company to support the town of Bralorne**
  - **Single owner/occupier of the land**
- **Late 1960's Marmot Enterprises buys the town and subdivides it.**
  - **Water system improvements are made but no major investments in sewer infrastructure**
- **SLRD assumed ownership in the 1989**

**BRALORNE, B.C.**

**"THE TOWN WITH THE  
GOLDEN FUTURE"**

Your choice of numerous houses located in Townsite No. 1 at Bralorne, B.C. At unbelievably low prices in today's market. Prices range from \$14,500 to \$26,500 for 2, 3, and 4 bedroom homes for retirement or recreational living. Year round gravel road from Lillooet provides good access to Bralorne summer or winter.

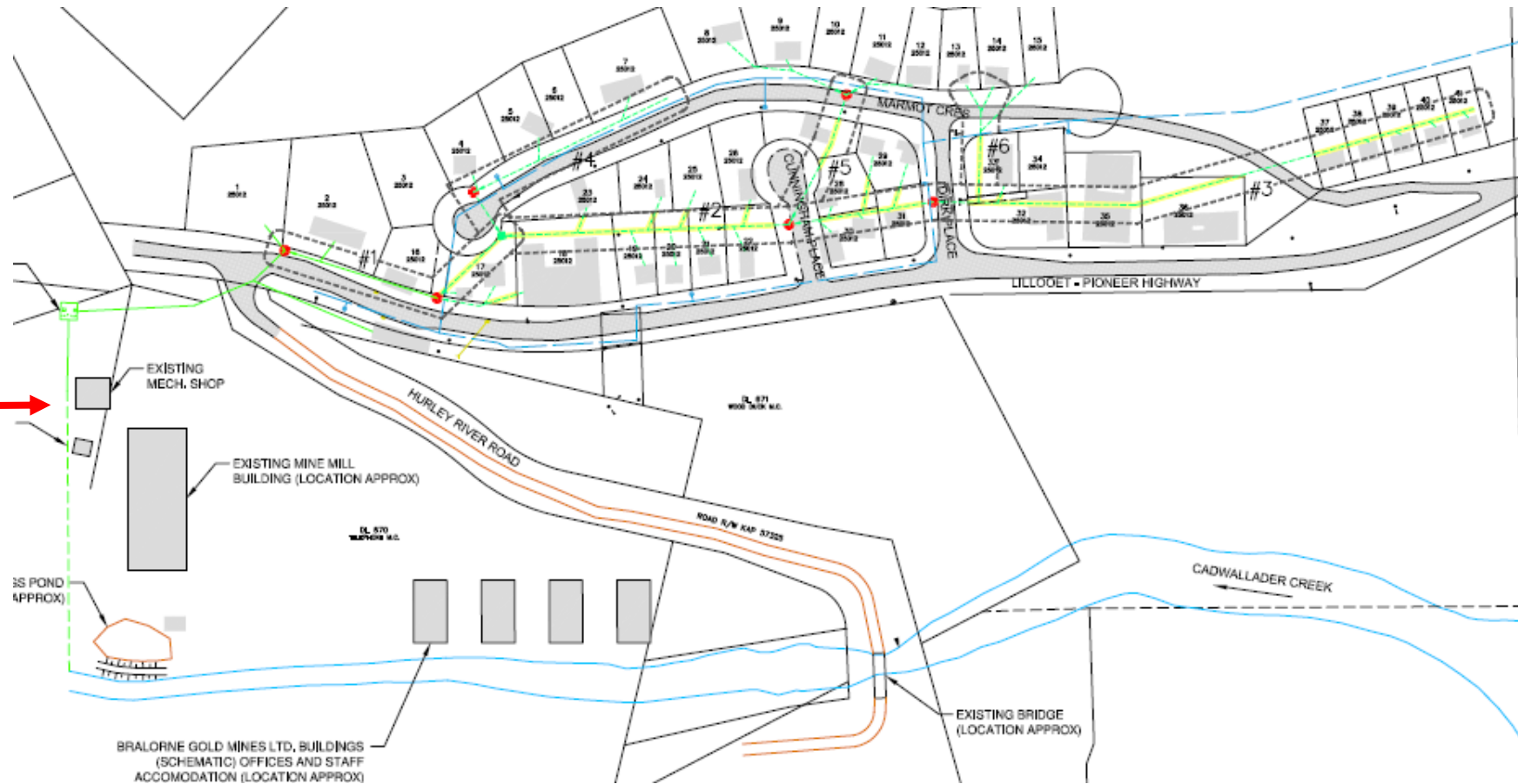
Ideal summer homes located in Townsite No. 2 ranging in price from \$5,250 to \$10,500. These houses do need some hard work but are good potential summer homes. All lots in Townsite No. 1 & No. 2 are serviced.

Acreages are also available ranging in size from 3.01 acres to 51.65 acres. Prices range from \$5,000 to \$40,000. Only two creek front acreages left, so take advantage now at these low prices so you can enjoy the summer at one of Canada's great outdoor areas.

**EXCELLENT TERMS AVAILA-  
BLE ca**

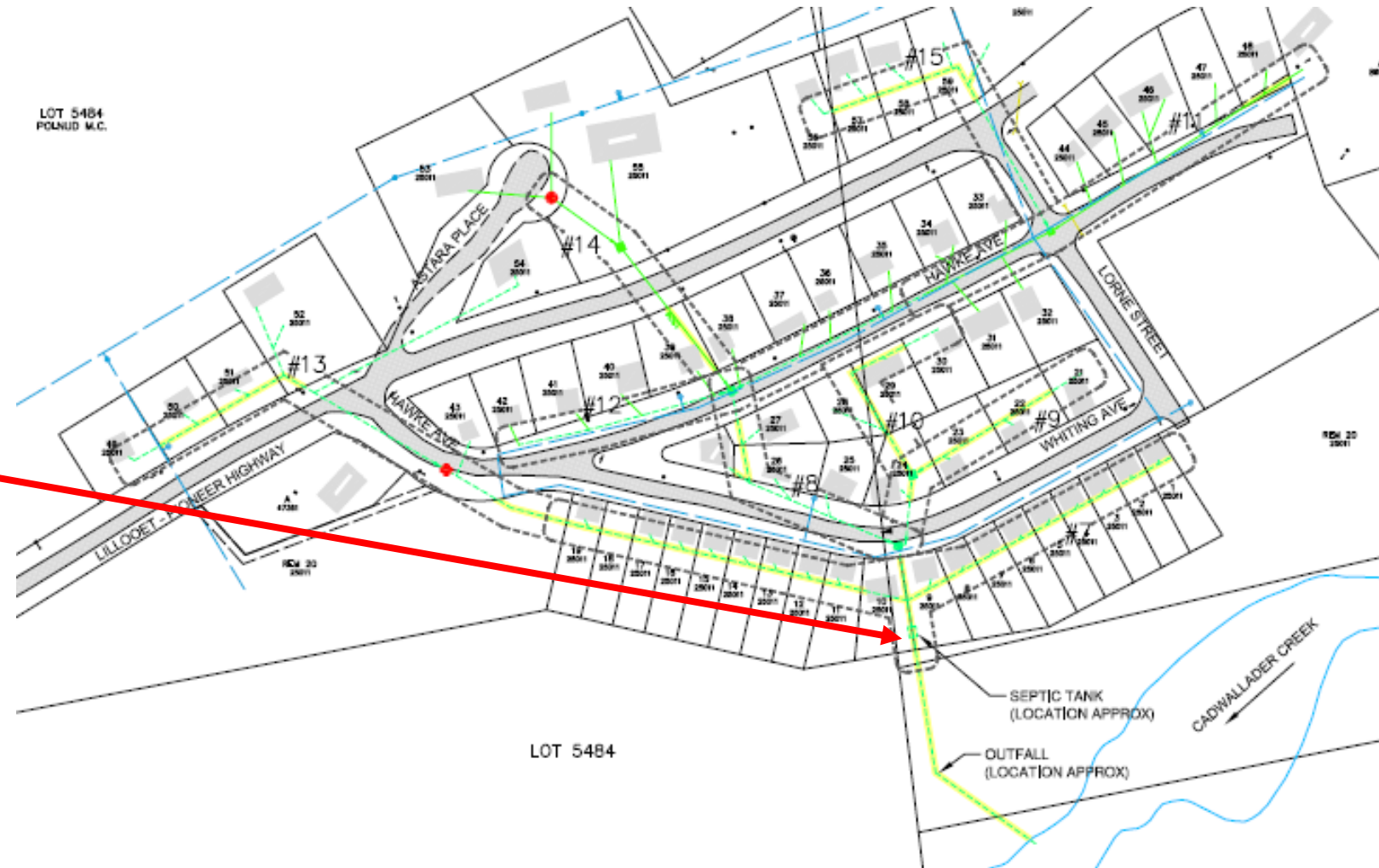
# Bralorne Sewer today Townsite #1

- Nearly a Century Old
  - 4"-8" vitrified clay collection piping
    - 62% of collection system is in trespass with no statutory rights of way
  - Septic tank with outfall to Cadwallader creek
- Unknown water infiltration and leakage rates
- Original 1974 operating permit PE – 3157



# Bralorne Sewer today Townsite #2

- Nearly a Century Old
  - 4"-8" vitrified clay collection piping
    - 41% of collection system is in trespass with no statutory rights of way
  - Septic tank with outfall to Cadwallader creek
- Unknown water infiltration and leakage rates
- Original 1974 operating permit PE – 3157



The Ministry of Environment is contemplating amending the existing Permit in order to force the Regional District to provide secondary treatment as a minimum for this facility. The Ministry has concerns with the potential impacts from this discharge.

The Ministry believes that this municipal wastewater treatment system is the most in need of an upgrade compared to all other municipal wastewater treatment systems in the Southern Interior Region.

Recognizing the need to find a balance between providing community services and protecting the environment, the Ministry is strongly supportive of this funding application.

Yours truly,



Don Vergamini, AScT  
Environmental Protection Officer



# Bralorne Sewer Upgrade Project

**Project summary:** Replace existing end-of-life sewer infrastructure with a modern watertight system in proper rights of way. Combine sewer systems to provide a single discharge with passive secondary treatment.



**Project Includes:**

2,460 meters of piping, 107 service connections, 43 Manholes, new septic tanks and Secondary treatment.

# What is complete:

- Gas Tax grant funding: \$1,999,530
- Detailed Engineering Design
- Acceptance of Rights-of-way (ROW's)
- Approval of the Environmental Impact Assessment
- MOTI Construction Permits
- New MOE Discharge Permit
- Location for the secondary treatment plant
- Approved Construction Contract





# Results from Tender

- 4 responses
- Prices ranging from \$2.47 – \$6.4 Million
- Low Bidder Hazelwood Construction Services
  - Still **\$829,000** over budget
- Additional funding sources
  - Bralorne Sewer Reserve Contribution \$38,000
  - Area A Gas Tax Amenity Funds \$91,000



# Project Budget

Update June 19th 2018	
<b>Original Funding sources</b>	
Gas Tax Grant	\$ 1,999,530
Bralorne Gold Mine Contribution	\$ 10,000
Bralorne Sewer Reserve Contribution	\$ 22,000
<b>Additional Funding Post May 23/24 Board Meeting</b>	
Area A Gas Tax Community Works Funds	\$ 91,000
Unallocated Bralorne Sewer Reserve	\$ 38,000
<b>Total Available Funds</b>	<b>\$ 2,160,530</b>
<b>Project Costs</b>	
Engineering	\$ 110,659
Geotechnical	\$ 28,688
Environmental Studies	\$ 32,267
Permits ect.	\$ 10,000
Land purchase and transfer costs	\$ 40,000
Construction	\$ 2,469,129
Reduced Scope	\$ (167,000)
Additional Scope	\$ 140,000
Contingency	\$ 196,787
<b>Updated Project Budget</b>	<b>\$ 2,860,530</b>
<b>Funding Shortfall</b>	<b>\$ (700,000)</b>

# Options to move forward

**OPTION 1** - Cancel tender, seek additional funding and retender next spring.

**Pros** – Buys time to address funding shortfall

**Cons/Risk** – Pricing escalation risk; Project delay, Grant Deadline.

**OPTION 2** – Phase project; award contract for sewer collection system with option to include treatment plant subject to Elector Approval.

**Pros** – Allows for construction to start this summer with known costs and good contractor.

**Cons/Risks** – If additional funding is not secured for phase 2, we could lose 15% of grant funding (300K) if project is not completed. Note: MOE will require secondary treatment in the future.



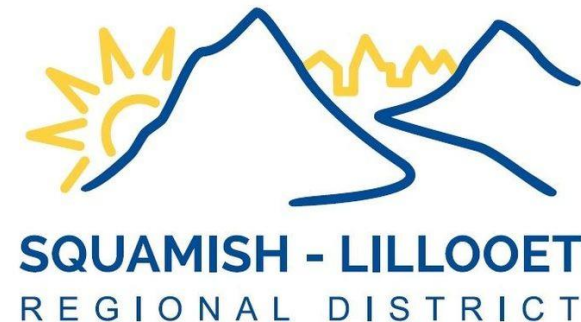
The SLRD is seeking Electoral Approval via Alternative Approval Process to borrow up to \$700,000 to complete the sewer upgrade project.

## What is an Alternative Approval Process?

A form of approval that allows electors to indicate whether they are against a local government proposal to move forward. The process will take about 3 months to complete.

## How much will it cost me?

- Current Sewer Parcel Tax is \$285.28/parcel per year
- The SLRD estimates the loan financing costs will be ~\$418.15/parcel per year
- Total Sewer cost ~\$703.43







**Questions???**