

Fire & Water: Concerns, Solutions, Issues

Community Meeting
7.30 pm Oct 4, 2024 Square Butte Hall

West Foothills Water Coalition website: wsdl.ca/wfw

Announcement

The Foothills County prohibits the smoking, vaping or consumption of any cannabis product in any public place within Foothills County.

A public place is defined as any place including privately or publicly owned or leased property, which the public reasonably has or is permitted to have access, whether on payment or otherwise.

The Square Butte Community Hall is considered a public place and is bound by this local bylaw.

Introductions

- West Foothills Water Coalition (WFWC):

Chair: Mary Anne Desmeules maddie697@gmail.com 403 650 0001 (cell)

Andy Pearson aandycarm@aol.com

Bart Pillage bwpski@gmail.com

Doug Webb djwebb@live.ca

Ed Nowicki edwinpnowicki@gmail.com 403 949 2704 (landline)

Ron Russell 2173rj@gmail.com

Russ Walker rrwalker86@gmail.com 403 690-3986 (cell)

Tom Evans drtfevans@gmail.com

- Website for WFWC: wsdl.ca/wfw

Our Plan for Today

Concern: Forest Fire Threat

Concern: Improper use of Water Treatment Plant and Bulk Fill

Concern: Dropping Water Table & Drying Wells

Solution 1: Do Nothing

Solution 2: Use Water Treatment Plant only as a bulk fill station

Solution 3: Revisit Possibility of a Water Pipeline

Your Concerns, Solutions, Views, Questions and Discussion

Main Objective: Develop a cohesive plan with which we can go, as a community, to the County of Foothills. Hopefully this meeting is a start.

Concern: Forest Fire Threat; 2018 Fire

“Alberta Wildfire is currently on the scene of an “out of control” wildfire near Bragg Creek that started early Sunday. Crews said on Monday the fire didn’t grow overnight, but it was still classified as out of control.”

“As of 1:15 p.m. Monday, a voluntary evacuation was in place for areas west of Highway 762, between Highway 22 and 178 Avenue West in the Foothills County of Foothills.”

Source:

Alberta firefighters battling ‘out of control’ wildfire near Bragg Creek

By Christa Dao Global News, Posted Sunday May 27, 2018 3:14 pm,
Updated May 28, 2018 9:06 pm

However, our Firefighter Heroes saved the day!

Concern: Forest Fire Threat; Some Issues

- 2022 brushfire is a reminder that we need to be vigilant.
- Local fire facilities (Burby Fire Hall) closed circa 1990 due to lack of water
- Increasing temps; decreasing precip. since 2000 in this area
- HW 762 corridor is in frontline of Kananaskis wildfire threat
- Residential cisterns are not viable for firefighting in most cases
- 'Arrangement' with Kananaskis for heli-assist
- No dedicated fire plan using treatment plant as supply
- About 200 homes in the area essentially unprotected from high wildfire threat
- No local fire response initiatives (muster points, call out schemes, communications, voluntary fire parties)
- Heli-assist may not always be available in a major fire
- Insurers have already or will recognise increased geographic risk
- We are already disproportionately penalised for insurance due to fire station distance.

Concern: Improper use of Bulk Fill Station

- In recent years, neighbours have noticed on some days there is no water available from the West Foothills Bulk Fill Station. And neighbours have also observed commercial water trucks, from outside the Foothills County, at the Water Treatment Plant using the Bulk Fill Station.
- At present, the Treatment Plant is licenced for 91 acre feet (equivalent to 273 homes, assuming 3 homes per acre foot) but that water, as per the licence conditions, should only be used within the designated service area. Physical capacity can be increased if more water licences are added to the facility.
- The design capacity of the reservoir (205 acre feet = 615 homes) is sufficient to supply the originally proposed regional pipeline (c.f. 2018 MPE report). Additional water licence capacity of about 114 acre feet would be needed to be applied to the Water Treatment Plant to allow this. Water licences are available within the Fish Creek watershed which could be applied by the County to the Water Treatment Plant with Alberta Environment approval.
- It is very important that the community has discussions with Foothills County to retain all the current water licence capacity at this facility. If licences are moved, we have been told there might be capacity at the Water Treatment Plant bulk fill station for only 45 homes.

Concern: Improper use of Water Treatment Plant and Bulk Fill Station; Issues

Designed

- Reservoir capacity: 205 acre feet, adequate for 615 homes at 3 homes/acre ft (Alberta Environment, re, 3 homes/acre foot)
- Licenced capacity: 91 acre feet (273 homes)
- At present water treatment can process 12 cubic meters per hour, ie, 50 gallons per minute, into the two storage tanks. Additional treatment pumping capacity can be added, at relatively low cost, as needed, with appropriate engineering and licencing
- Designed for residential water supply and firefighting only
- Water to be used in licenced point of use area only. Commercial tanker truck use of the Water Treatment Plant in non-compliant
- Originally designed as a treatment plant to service regional and local water needs with a pipeline, including fire suppression.

Current

- Our bulk fill is one of three commercial bulk fill stations in Foothills County but no tank upgrades (at present, two storage tanks, 75.7 m³ tank and 37.8 m³ tank). It is unclear how the commercial designation was given.
- cf proposed Bragg Creek plant; community voted down a commercial filling station
- Our fill station is often depleted for residents due to over use by commercial tanker trucks
- Hwy safety compromised by large tanker trucks on 762 turnoff/on
- Depletion by trucks compromises firefighting water availability
- Water taken outside service area
- Pipeline not built.

Concern: Dropping Water Table & Drying Wells

- In the last 5 years, several residential wells have gone dry.
- Average lifetime of local wells is 30-50yrs (ie wells drilled 1970-1990); well treatment safe and effective in midlife of well only; current drilling costs \$60-75/ft or for a 160 foot well, \$10-12k (data from local drilling company). This estimate may be on the low side. Also, it is not uncommon to drill several dry wells, at considerable expense before a good well is found. Success rates of wells in our area is low and probably decreasing due to global warming.
- Residents have installed cisterns (typically 500 gallons to 3000 gallons), and fortunately can use Water Treatment Plant bulk fill facility to transport water to their cisterns.
- As wells dry up, and commercial use increases, could there be water supply bottle-necks at the fill station in future?

Concern: Dropping Water Table & Drying Wells; Some Issues

- Deep groundwater wells had low original productivity due to low porosity & permeability lithologies
- Some wells have higher production due to natural fracturing
- Decreasing productivity through time due to cementation (can be treated). Most wells +/- 50 yrs old
- Decreasing productivity due to decreasing precip. since 2000
- Increasing consumption: expectation of residents; higher temps and lower precipitation
- Cost to drill new well: \$10-12k completed for 160 ft well plus \$1500 mobilisation and testing
- Increasing use of cisterns and of the fill station by community
- A residential water pipeline has never progressed despite residential interest
- Two options: large line all the way to Priddis via Rusticana; or smaller line to north and south of Water Treatment Plant
- Either of the pipelines would address future residential water supply and fire suppression issues for the Hwy 762 community and eastward to Priddis.

Possible Solutions

- Solution 1: Do Nothing
- Solution 2: Use the Water Treatment Plant only as a Bulk Fill Station and Retain Current Licences
- Solution 3: Revisit Possibility of a Water Pipeline
- Other Solutions. Let's be creative.

Solution 1: Do Nothing

- Pro: The immediate cost is zero. No effort for anyone. As wells dry up, people can switch over to using the Water Treatment Plant for bulk fill.
- Con: Once we lose the current water licences, unlikely we would ever get them back, with the present system of water allocation, FITFIR (First in Time First in Right; used in Alberta since 1894). Home values will go down as water wells dry up. Most important: If a forest fire develops, and winds are strong, next time, the heli-assist arrangement may not be enough to prevent the fire from reaching HW 762 area and spreading eastward.

Solution 2: Use Water Treatment only as a Bulk Fill Station and Retain Current Licences

- Pro: Low cost solution, however we would need to keep our water licences, with 91 acre foot total. Assuming 3 homes per acre foot, that would mean 273 homes would have enough water from the Bulk Fill Station, even if everyone's well were to dry up (which is very unlikely, at least for the next 10 years).
- Con: As water table drops, if licences are moved to another location, we may end up being left with licence capacity for only 45 homes. And fire suppression issues are not addressed.

Solution 3: Revisit Possibility of Water Pipeline

- Pro: Water is much higher quality than well water; eligibility for 60-70% Alberta Government grant; cost could be amortized over a 10 or 20 year period; our worry about wells drying up is relieved; fire suppression issues addressed; lower insurance costs; residential bulk fill remains for those not hooked up to the pipeline; no more commercial trucks at bulk fill site; and home values go up.
- Con: Needs additional water licences (which are potentially available) if pipeline goes all the way to Priddis. Cost to build the pipeline. Possible administrative fee (may be as high as \$10k per home). Will need community backing, of everyone, from HW 762 corridor and HW 22 and Priddis.

Pipeline Options for the Water Treatment Plant

Option 1: Hwy 762, 22 & Priddis

- Original plan for the proposed 2018 pipeline (MPE study) very high.
- 2018 cost estimate: \$45k per home later revised to \$62k, without gov't grant. Owner pays for connection to cistern. \$10k/home admin fee. Some residents did not view the project favourably.
- Mid-2024 estimates have been generated by a different company: \$23k/home, including fire hydrants. This is a drip feed system; needs cistern for each home. If within 200m of pipe connection to cistern is included in \$23k/home. This figure assumes a 60-70% Alberta Government subsidy. Possible admin. fee as high as \$10k/home, not included, for engineering upgrade and operation of water treatment plant; \$10k is disproportionately excessive
- Why lower? Improved horizontal drilling technology. And the pipeline would supply a community (Priddis), thus the 60-70% gov't fiscal support.

Option 2: Hwy 762 Corridor

- Water would be piped north and south of Water Treatment Plant
- This is also a drip feed system
- Mid-2024 Estimated cost: \$43k/home, including fire hydrants and connection to cistern. The admin fee (up to \$10k/home) not included in this figure of \$43k/home
- Higher cost due to Alberta Gov't subsidy not being included. Hwy 762 community likely is not classified as a hamlet, village or rural subdivision. However, we should not rule out one of the existing subsidy programs, and other financial support may??? be available from the Alberta Government.
- Question of Government subsidy.

Community Involvement

- Enhance communication within the community
 - Website
 - Meetings
- Need more people on the West Foothills Water Coalition committee
- Skillsets needed for the committee:
 - Enthusiasm
 - Youth
 - Possible expertise, formal or practical, welcomed
 - Members from HW 762 corridor
 - Members from North and South of HW 22
 - Members from Priddis

Thank You!!!

For more information contact:

Chair: Mary Anne Desmeules maddie697@gmail.com 403 650 0001 (cell)

Andy Pearson aandycarm@aol.com

Bart Pillage bwpski@gmail.com

Doug Webb djwebb@live.ca

Ed Nowicki edwinpnowicki@gmail.com 403 949 2704 (landline)

Ron Russell 2173rj@gmail.com

Russ Walker rrwalker86@gmail.com 403 690-3986 (cell)

Tom Evans drtfevans@gmail.com

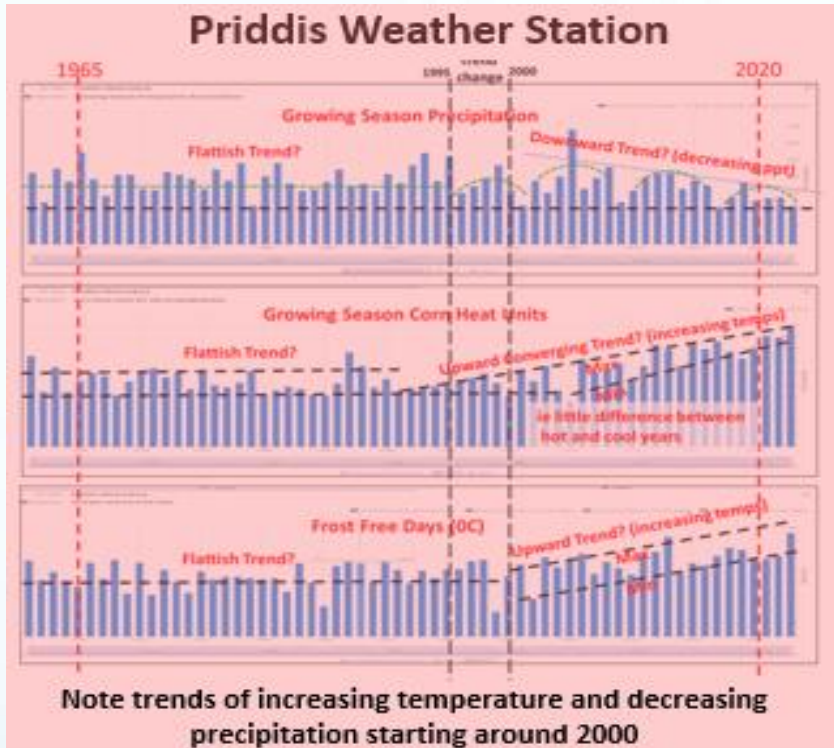
West Foothills Water Coalition website:

wsdl.ca/wfw

Addendum

The following slides, provide maps and further information. We can project maps on the screen during the presentation and during the Q&A discussion session at the end of the presentation. 11"x17" hard copies of maps will be available at the meeting.

West Foothills Water Coalition – Current and Future Work

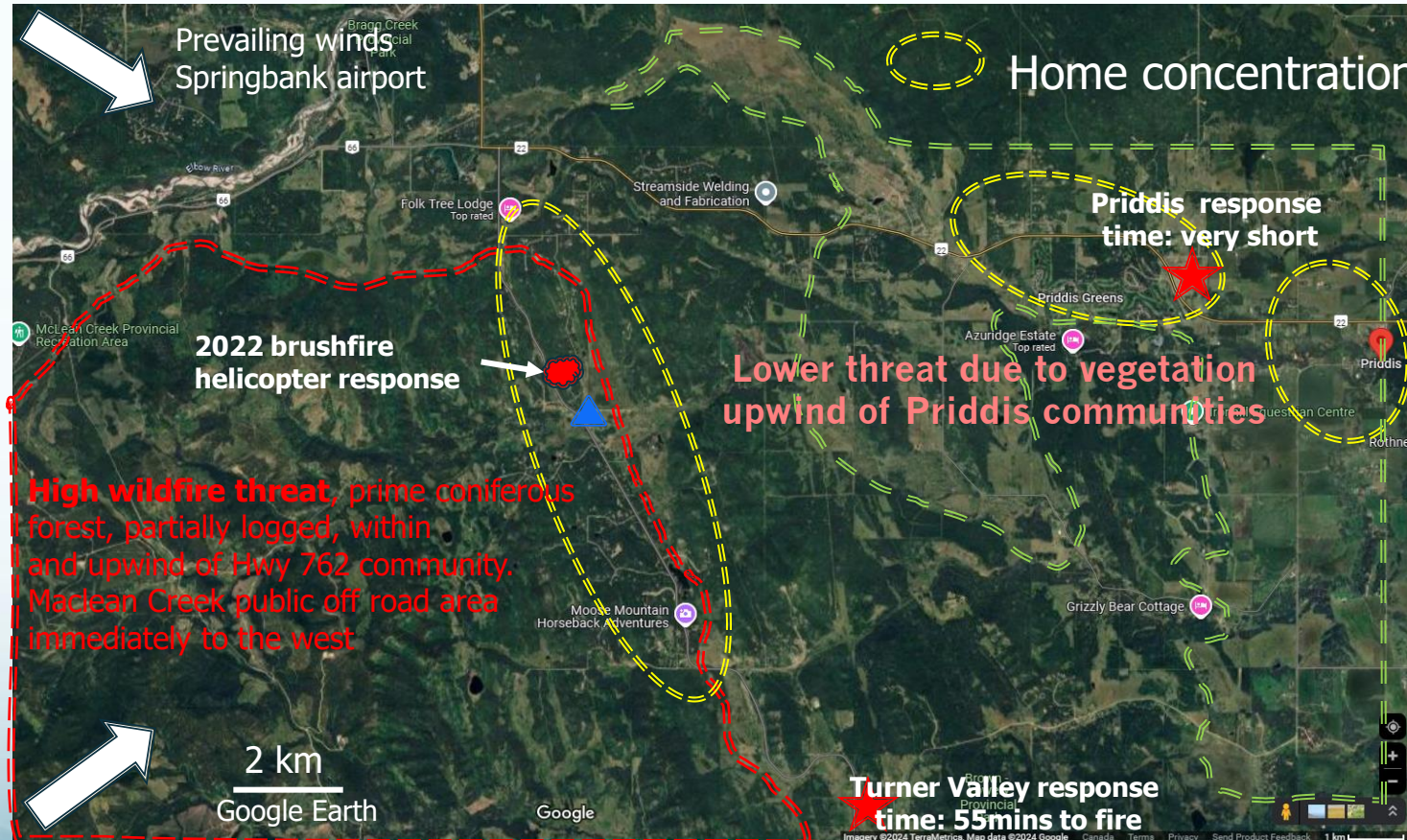


A study is being undertaken by the West Foothills Water Coalition which will review the following:

- Update the surface water licence allocations
- Analyse the historical water production records of currently held Licences. This data has been requested from Alberta Environment
- Determine the trends in precipitation reduction and temperature increases through evaluation of Alberta Environment historical weather data which is available online (see Priddis example to left)

The intent is to integrate the above with the derived water balance of the watershed utilising precipitation and evapotranspiration models. This will give an overall indication of the health of the watershed and the creeks there-in.

Wild fire Threat Issues – Hwy 762 Community and Priddis

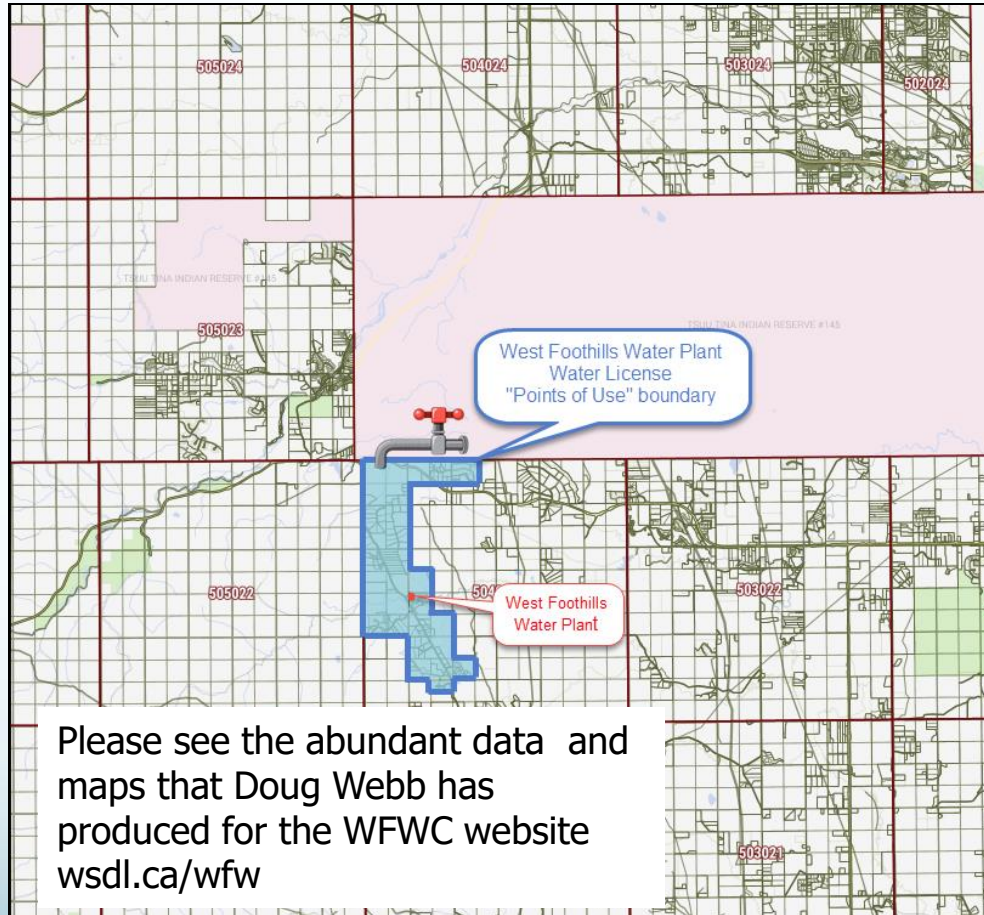


Fire Issues

- Very high wildfire threat from Kananaskis in Hwy 762 area.
- Yet no local fire response initiatives (muster points, call outs, notifications, etc)
- Local voluntary fire assoc. disbanded by MD in 1990 due to lack of water (not lack of interest!)
- Reduction in access for fire trucks at fill station (the new fence beside water treatment plant)
- Depletion of dedicated 'fire water' reservoir by commercial bulk water carriers
- Dependency on Kananaskis (what is helicopter availability in fire event?)
- Turner Valley fire station is a long distance away from West Foothills.
- Priddis area fully covered by modern fire station with very low response time
- Can Foothills help our area by facilitating local training, supply equipment, and better water availability?

West Foothills (aka Fish Creek) Water Treatment Plant

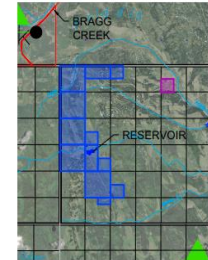
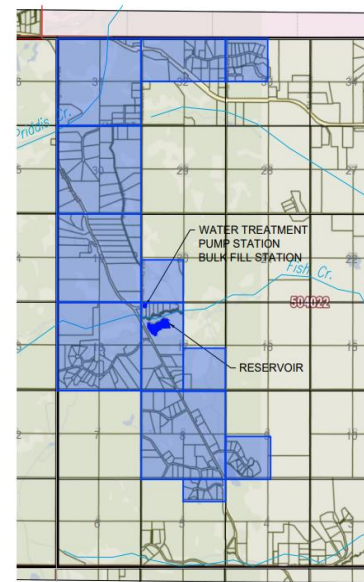
Water Licence Point of Use Area and Licence Details



SURFACE WATER LICENSE POINT OF USE MAP FOR NW-17-022-04 W5M DATA GATHERED FROM waterlicenses.alberta.ca 2024-04-12

As per the Alberta Water Licensing, the points of use for the 91 Acre feet of annual water consumption held by Foothills County are highlighted in blue on the map below

DIVERSION #	PRIORITY	LICENSE	POINT OF DIVERSION #	SOURCE	Annual Volume m3	DIVERSION RATE %	TYPE	PURPOSE	Annual Volume Acre Ft.
483190	2014-09-29-001	FOOTHILLS COUNTY	NW-17-022-04-5	Fish Creek	0	.009	SW	Municipal	0
483190	1962-02-16-003	FOOTHILLS COUNTY	NW-17-022-04-5	Fish Creek	88811	.01	SW	Municipal	72
321780	2003-01-24-004	FOOTHILLS COUNTY	NW-17-022-04-5	Fish Creek	10235	.001	SW	Municipal	8
321775	2005-07-21-001	FOOTHILLS COUNTY	NW-17-022-04-5	Fish Creek	10120	.001	SW	Municipal	8
220297	2003-01-24-004	FOOTHILLS COUNTY	NW-17-022-04-5	Fish Creek	3305	.001	SW	Municipal	3



POINTS OF DIVERSION

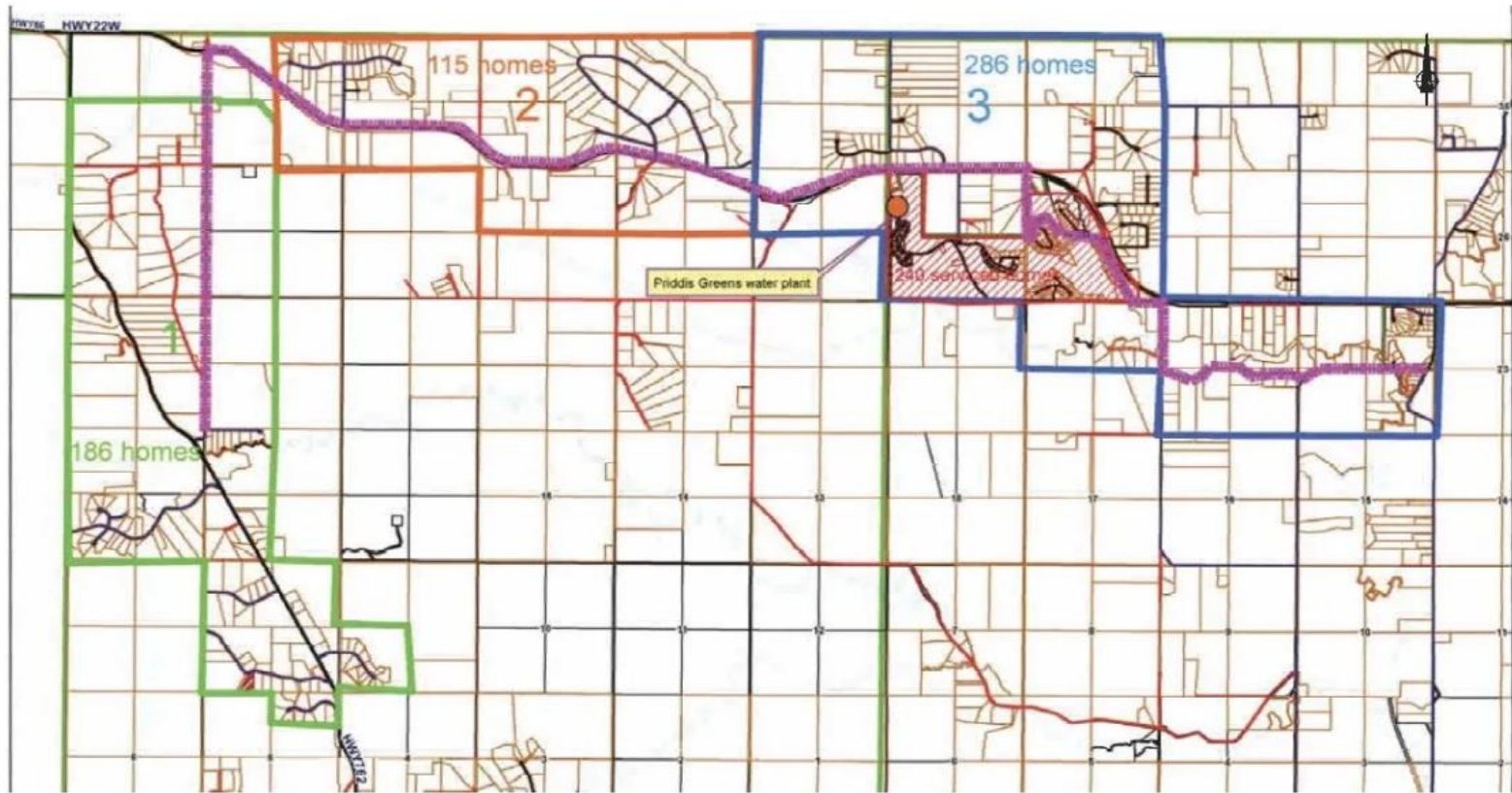
- NW-17-022-04-WSM

POINTS OF USE

- Lands within the Proposed Fish Creek
- Ranch Service Area
- E1/2 19-022-04-WSM
- E1/2 30-022-04-WSM
- SW 09-022-04-WSM
- 08-022-04-WSM
- SW 09-022-04-WSM
- W1/2 17-22-04-WSM
- SE 17-22-04-WSM
- 19-22-04-WSM
- 19-22-04-WSM
- 20-22-04-WSM
- 30-22-04-WSM
- 31-22-04-WSM
- NW 32-22-04-WSM

Note top right hand side table indicating total of 91 acre feet of water licences

Map from MPE Engineering originally presented to the community in Zoom meeting by Foothills County in 2018



From MD Foothills



MUNICIPAL DISTRICT OF FOOTHILLS
NORTH DISTRIBUTION ASSESSMENT
MD PROPOSED SERVICE AREAS

SCALE: N.T.S. DATE: JANUARY 2018

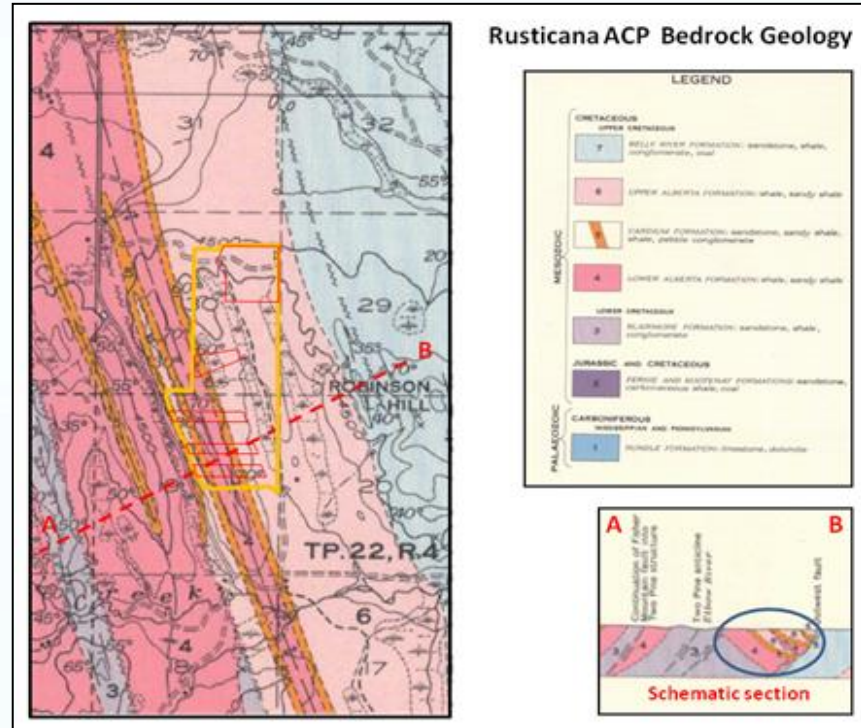
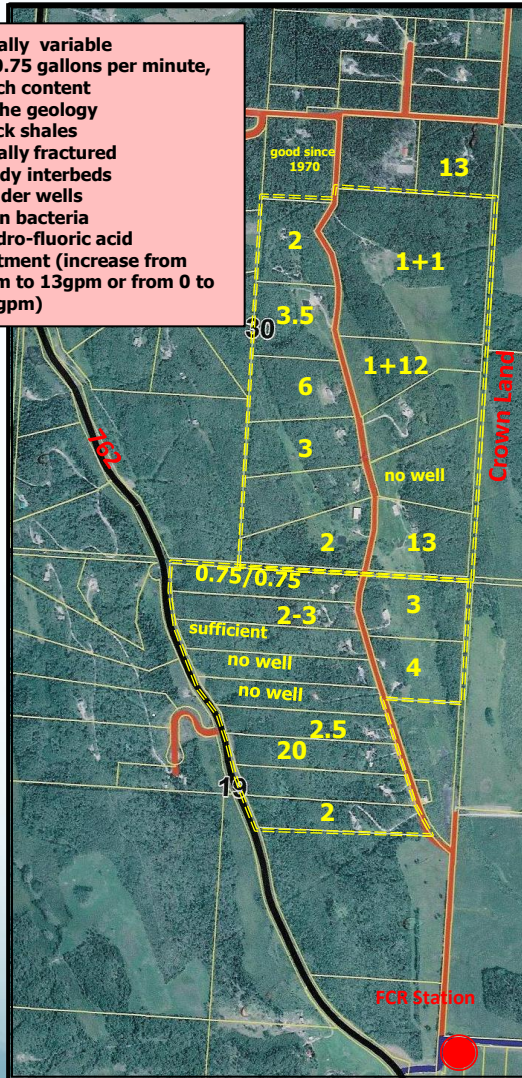
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FIGURE: 1

Geology and example well productivities (2010)

Rusticana Estate
Water well productivity

- Well water is geographically variable
 - Ranges 20 – 0.75 gallons per minute, variable iron rich content
 - Is related to the geology
 - Black shales
 - Locally fractured
 - Sandy interbeds
- Also mostly older wells
 - Iron bacteria
 - Hydro-fluoric acid treatment (increase from 3gpm to 13gpm or from 0 to 2-3 gpm)



Bedrock Geology

As can be seen in geological map Figure 4, the entire Rusticana area is underlain by rocks of the Upper Cretaceous Alberta Group, which comprise, from bottom to top, the Blackstone (or Lower Alberta) Formation, Cardium Formation and Wapiabi (or Upper Alberta) Formation. The Wapiabi Formation, the formation of interest here comprises an approximately 500m thick section of thick marine shales and siltstones with a few sandstone and limestone members. Subsequent to deposition, during the Tertiary tectonism associated with the creation of the Rocky Mountains, the rocks were folded and faulted with the bed-dips in the Rusticana area of 50-70° down towards the ENE.

The geological map was made in 1942 and reflects the then current road system. It clearly shows the geological structure which comprises a tightly folded NNW-SSE trending anticline with outcropping and more resistant Cardium sands forming the crest of the most westerly of the ridges in Rusticana. Further to the east, underlying the majority of the ACP area, steeply dipping Wapiabi is present and it is the thin resistant sandstone beds within this formation which probably form the more easterly of the ridges. Given that sandstones provide the highest potential water reservoirs, the subsurface distribution of these sand units has an impact on well water supply.

From Rusticana Area Concept Plan 2010

Recent (mid-2024) Scoping Engineering Study – Option 1

Option 1 – Pipeline to Priddis

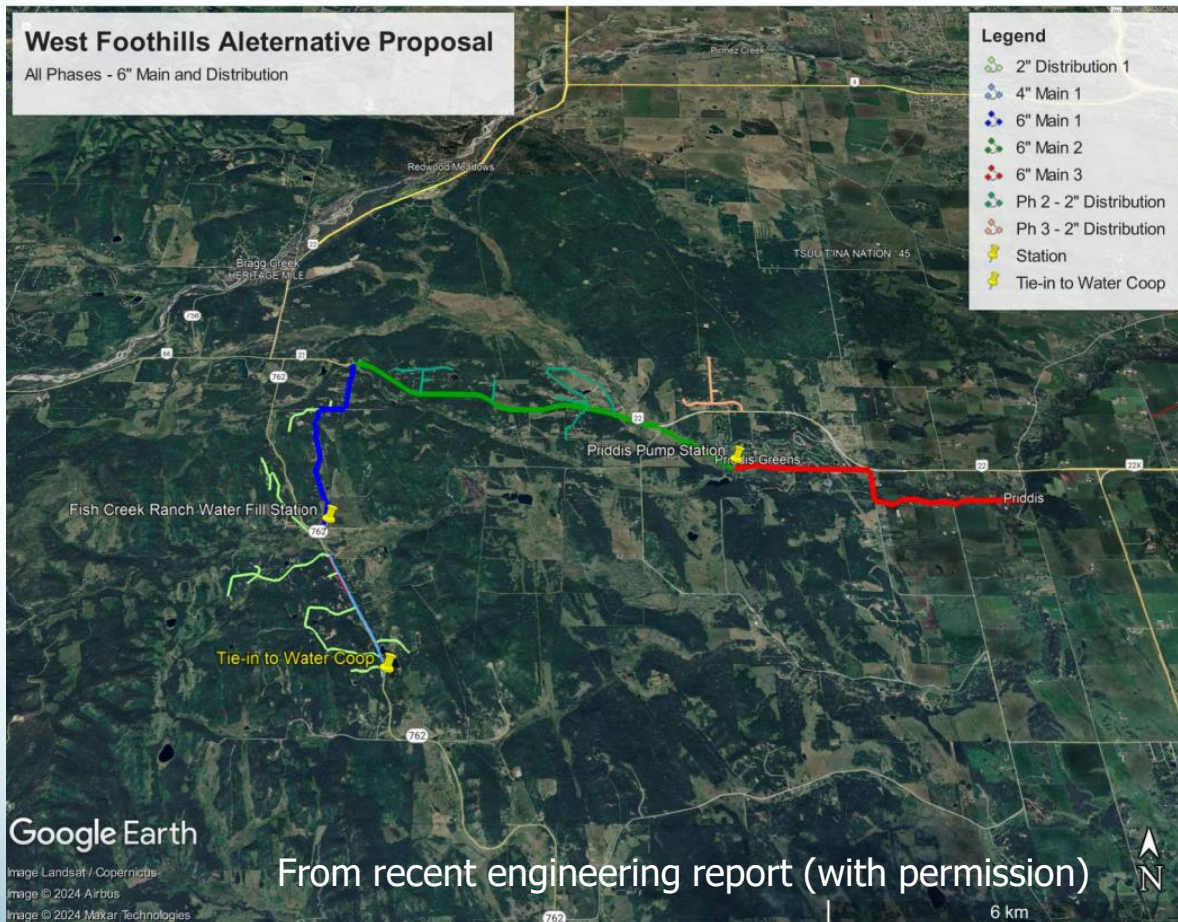
Pros

- **Potentially the least expensive for Hwy 762 community – ballpark \$23k per home**
- **Is the most beneficial for the watershed by obviating the over exploitation of Priddis Creek**
- **Is the most efficient for water distribution**
- **Satisfies Priddis community needs for additional water.**
- **Would qualify for 60-70% subsidy from Alberta Government**
- **Fully utilises the high quality 205 acre foot reservoir having blue clay lining**
- **The existing reservoir can be enlarged if ever needed, as Priddis grows in future**
- **Provides largest wildfire suppression coverage area**

Cons

- **Requires additional water licence capacity (from 91 to 205 acre feet) for pipeline to service residences all the way to Priddis**
- **Needs County to acquire or move licences**
- **Needs Alberta Environment approval to transfer water licences to the reservoir**
- **Needs confirmation that Alberta Government support would be forthcoming**

Note that all the cons noted above have been addressed in the past with positive outcomes.



Recent (mid-2024) Scoping Engineering Study – Option 2

Option 2 - Local Hwy 762 Pipeline

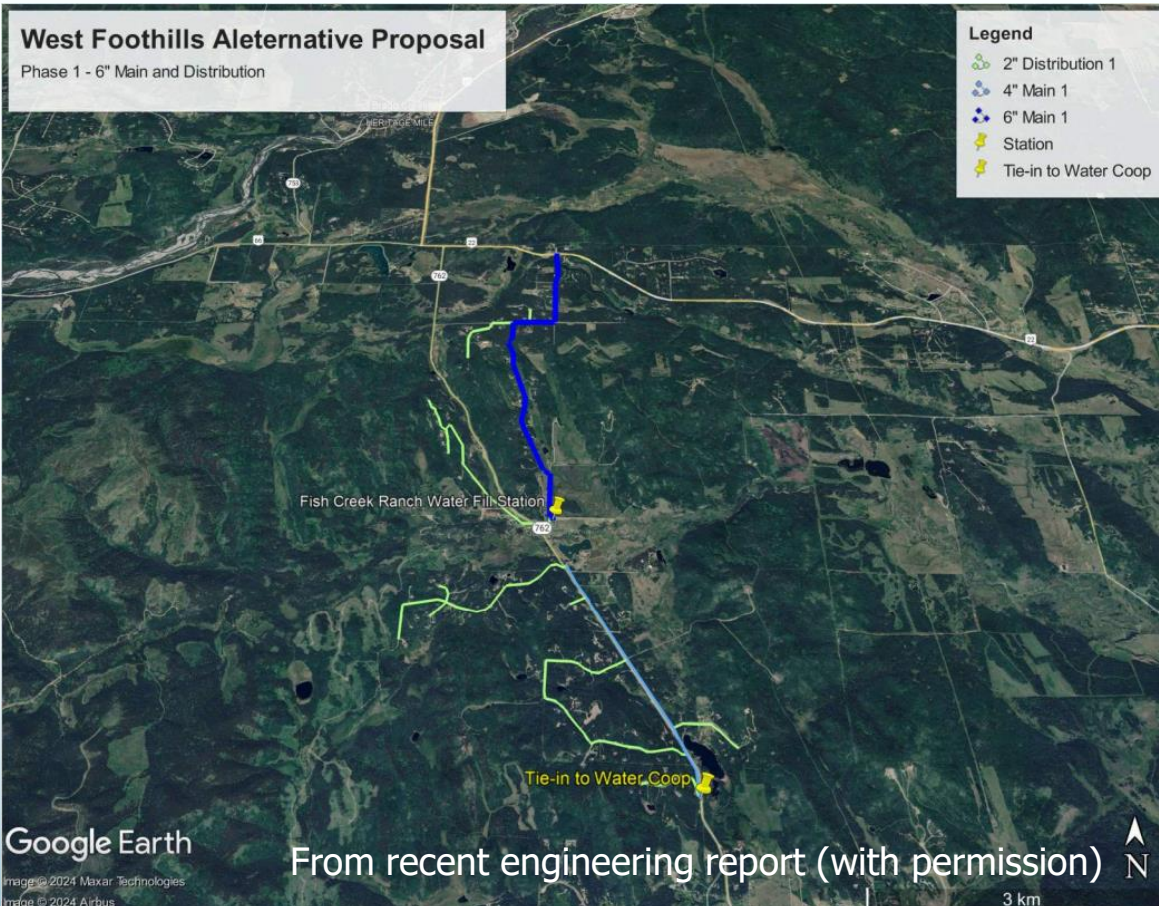
Pros

- Does not require additional water licence capacity (91 acre feet already available)
- Does not need Alberta Environment approval (for water licence transfer).??
- Locally driven initiative, probably managed by Foothills County.??
- Utilises Water Treatment Plant facility, as is, with pumping capacity 12 m³ per hour ie 50 gallons per minute
- Provides local wildfire suppression coverage
- Future potential to extend pipeline eastward along Hwy 22 to Priddis
- In addition the existing reservoir can be enlarged if ever needed as Priddis grows

Cons

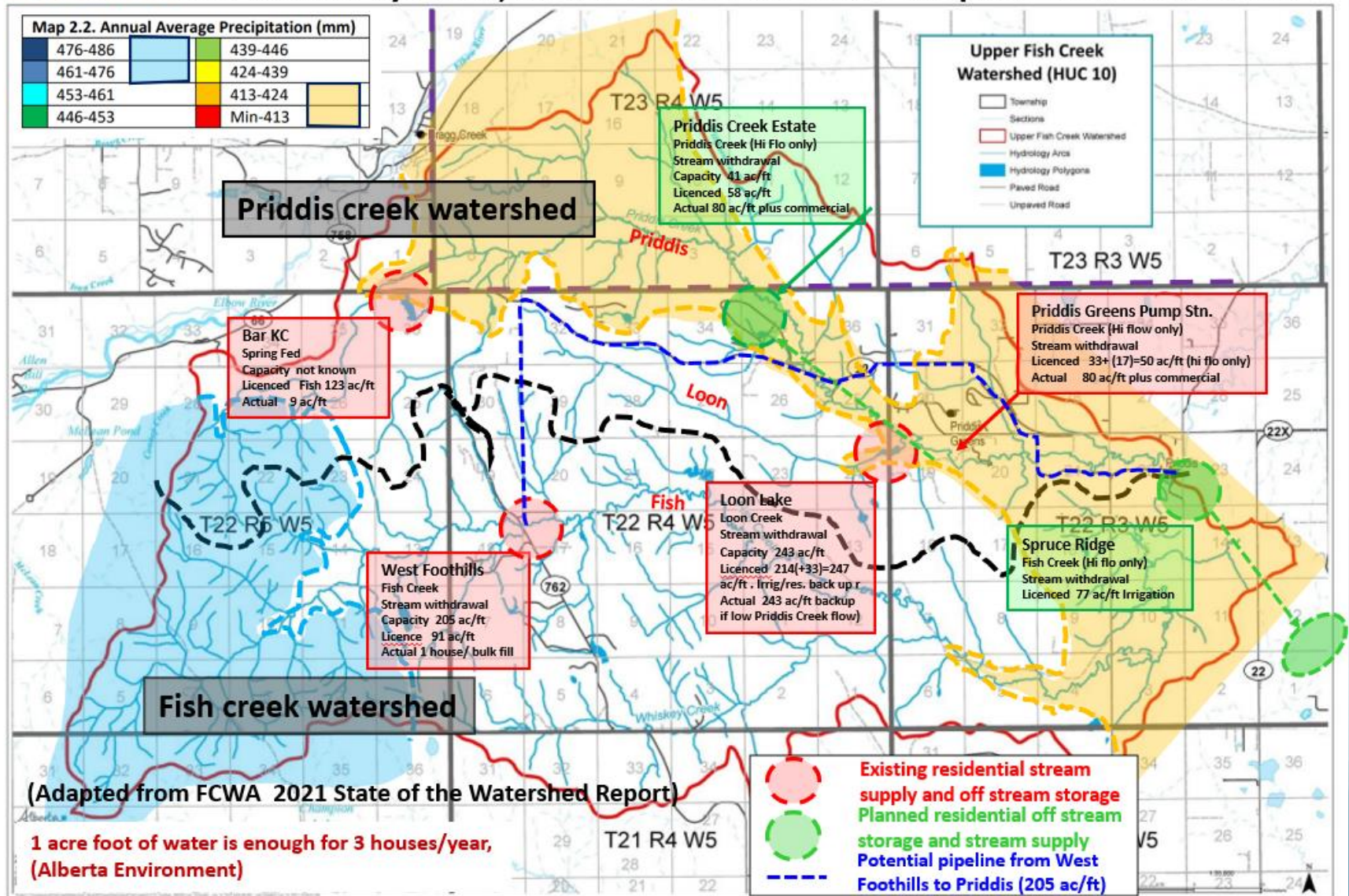
- Is more expensive for the Hwy 762 community – ballpark \$47k per home (without Government subsidy)
- Pumping capacity too low for hydrants
- Is the least beneficial for the watershed
- Will leave reservoir that is under-utilised
- Will not necessarily get a Alberta Government subsidy
- Hopefully would receive County approval
- Larger picture: years later may require the construction of additional off stream storage, as noted above, can be done!

Note that with the increasing focus by the Alberta Government on water issues, especially rural, an application for financial assistance for this option may??? be looked on favourably... TBD!

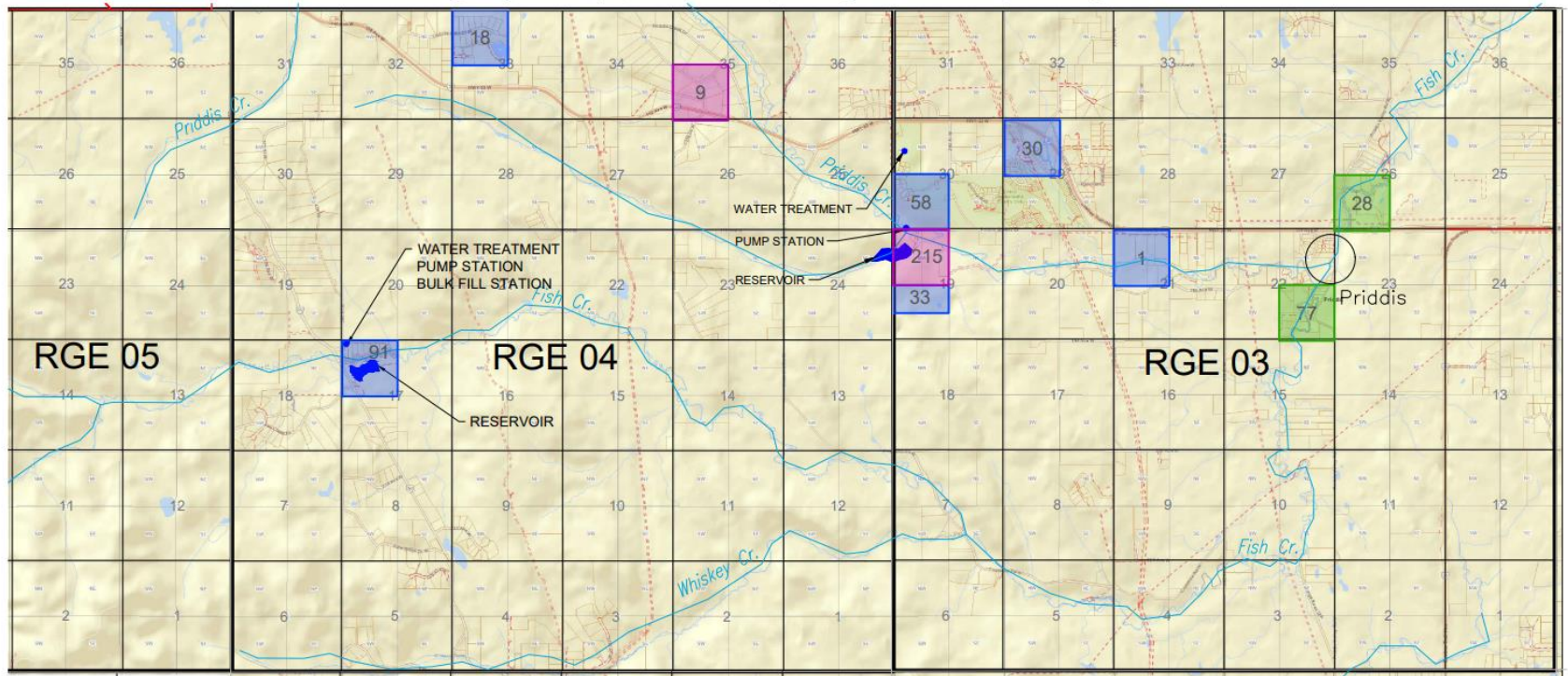


Fish Creek Watershed - Current and proposed residential water supply

APPENDIX A. REFERENCE MAP SHOWING TOWNSHIP AND RANGE FOR THE UPPER FISH CREEK WATERSHED.Plus Stream Systems, Watersheds and Gross Precipitation Distributions



SURFACE WATER LICENSE POINT OF DIVERSION PARTIAL MAP (waterlicenses.alberta.ca) 2024-04-12
showing only Municipal, Commercial, Management of Fish, and Irrigation



RANGE	PURPOSE	POINT OF DIVERSION	LICENSE	Annual Acre/ft
RGE 5	Management of Fish	NE-30-022-05-5	BAR KAY CEE CLUB	120
RGE 5 Total				120
Grand Total				120

RANGE	PURPOSE	POINT OF DIVERSION	LICENSE	Annual Acre/ft
RGE 4	Municipal	NW-27-022-04-5	FOOTHILLS COUNTY	91
RGE 4	Municipal	NW-33-022-04-5	FOOTHILLS COUNTY	18
RGE 4	Agricultural	NW-37-022-04-5	WESTON, DOUGLAS	6
RGE 4	Agricultural	NE-31-022-04-5	WATSON, BETTY	9
RGE 4	Agricultural	NW-08-022-04-5	FREEMAN HOLDINGS LTD	3
RGE 4	Agricultural	NW-23-022-04-5	CHYNICK, ANDREW	3
RGE 4	Agricultural	SE-08-022-04-5	ANTONY, CARLOS	6
RGE 4	Agricultural	SE-22-022-04-5	HARVE, DONALD	20
RGE 4	Agricultural	SE-22-022-04-5	GALIEL, MARY	2
RGE 4	Agricultural	SE-30-022-04-5	JOHN, WILLIAM & SHEL	2
RGE 4	Agricultural	NW-08-022-04-5	LAVALLE, RICK	1
RGE 4	Agricultural	SW-34-022-04-5	BOURKE, STEPHEN ET AL	2
RGE 4	Agricultural	SW-34-022-04-5	LAMP, DARCY & PAMELA	0
RGE 4	Commercial	NW-35-022-04-5	FOOTHILLS COUNTY	9
RGE 4	Management of Fish	SE-38-022-04-5	FOOTHILLS COUNTY, SAGINAW	3
RGE 4	Management of Fish	SW-38-022-04-5	FOOTHILLS COUNTY, SAGINAW	3
RGE 4	Management of Fish	NW-25-022-04-5	WEEBING, GEORGE	183
RGE 4 Total				383

RANGE	PURPOSE	POINT OF DIVERSION	LICENSE	Annual Acre/ft
RGE 3	Commercial	NW-30-022-03-5	PRIDDIS OPENING GOLF & COUNTRY CLUB	215
RGE 3	Agricultural	NE-28-022-03-5	SUDAN, JEFFERY & MARK EISELAND	6
RGE 3	Agricultural	NE-34-022-03-5	COOPER, LAURA	30
RGE 3	Agricultural	NW-23-022-03-5	COOPER, HEATHER	2
RGE 3	Agricultural	NW-25-022-03-5	ADAMS, BRUCE	3
RGE 3	Agricultural	NW-33-022-03-5	ROBERT, ROBERT/ANNE-MA	100
RGE 3	Agricultural	SE-08-022-03-5	SHAW, ROBERT	6
RGE 3	Agricultural	SE-08-022-03-5	Seaman, Gary & Bryan	3
RGE 3	Agricultural	SE-18-022-03-5	WELCH PROPERTY CORPORATION and MELAN	9
RGE 3	Agricultural	SE-21-022-03-5	WILSON, DONALD	2
RGE 3	Agricultural	SE-23-022-03-5	WILSON, DONALD	2
RGE 3	Agricultural	SE-23-022-03-5	WATSON, DONALD	1
RGE 3	Agricultural	SE-27-022-03-5	SUDAN, JEFFERY & MARK EISELAND	4
RGE 3	Agricultural	SE-31-022-03-5	HARVE, DONALD	3
RGE 3	Agricultural	SE-34-022-03-5	BOURKE, DONALD	1
RGE 3	Agricultural	SW-08-022-03-5	MITCHELL, DAVID	2
RGE 3	Agricultural	SW-13-022-03-5	COOPER, GORDON	3
RGE 3	Municipal	NW-33-022-03-5	FOOTHILLS COUNTY	0
RGE 3	Municipal	NW-33-022-03-5	FOOTHILLS COUNTY	1
RGE 3	Municipal	NW-33-022-03-5	FOOTHILLS COUNTY	30
RGE 3	Municipal	SW-30-022-03-5	FOOTHILLS COUNTY	38
RGE 3	Municipal	SW-30-022-03-5	FOOTHILLS COUNTY	13
RGE 3	Irrigation	SE-23-022-03-5	SANDS SPRINGS RANCH LTD	77
RGE 3	Irrigation	SW-28-022-03-5	COOPER, HEATHER	26
RGE 3	Government	NW-30-022-03-5	ALBERTA ENVIRONMENT AND PROTECTED AREAS	10
RGE 3	Government	NW-30-022-03-5	ALBERTA LIMITED	8
RGE 3	Management of Fish	NE-30-022-03-5	38600 ALBERTA LTD.	2
RGE 3	Management of Fish	NE-30-022-03-5	ADAMS, PETER	1
RGE 3	Management of Fish	SE-25-022-03-5	MITCHELL, RONALD	1
RGE 3 Total				633

ANNUAL ACRE FEET

- 231 MUNICIPAL
- 224 COMMERCIAL
- 129 MANAGEMENT OF FISH
- 105 IRRIGATION

Please see the abundant data and maps that Doug Webb has produced for the WFWC website wsdl.ca/wfw

SURFACE WATER LICENSE POINT OF USE SURVEY FOR NW-17-022-04 W5M



- Yes
- Not Surveyed
- No Opinion
- Not interested

West Foothills Water Survey Bulk Fill

This is a simple expression of interest survey to determine if landowners and/or renters within the map area shown are interested in keeping the existing water license allocation of 112473 cubic meters annually within the area indicated in blue on the map shown. This allocation is for the bulk fill usage only.

Name _____ Owner: _____ Renter _____

Email _____ Phone Number _____

Map Area / Parcel Number _____

Do you transport water to your property, either yourself or from a supplier?

Yes _____ No _____ other _____

How often do you access the WFW Bulk Fill?

Never _____ Daily _____ Weekly _____ Monthly _____ Annually _____

Would you like to ensure the current water licenses for the area shown on the map remain in place?

YES _____ NO _____ No Opinion _____

Signature: _____ Signature _____ Date: _____

West Foothills Water Survey Pipeline

This is a simple expression of interest survey to determine if landowners/renters, within the map blue area shown are interested in obtaining water via pipeline to their property line. The county is of the belief our community is not interested in obtaining water from the West Foothills water plant to our homes. This will come as a risk to us losing our water license and allocating it elsewhere within the county.

Name _____ Name _____

Email _____

Phone Number _____

Signature: _____ Date: _____

Adapted from Doug Webb's work
on the WFWC website wsdl.ca/wfw