



TOWN OF
SEDGEWICK

Agenda
Special Meeting of Council
Thursday, July 26th, 2018
Town of Sedgewick Council Chambers
6:15 pm

1. Call to Order

2. Acknowledgement of Treaty 6

3. Business

3.1 [Sedgewick Lake Park](#) – Booster Pump

4. Adjournment

Mayor
25-June-2018

CAO
25-June-2018



THE RAIN MAN IRRIGATION & PLUMBING

(A Division of The Rain Man Plumbing Ltd.)

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July 17, 2018

Town of Sedgewick
Sedgewick Water Park

This system was turned on Friday July 13th, 2018. We were expecting a water supply of 2" 50 G.P.M at 45 PSI. As soon as full flow of water was used the pressure in the park dropped to 10 PSI and no recovery to use for park pressure, stayed low.

After consulting with Water Odyssey and Shelly Robinson of On Course Parks, we were going to put on a booster pump but this would suck water from the campground and will not work.

Option #1

The only solution that will work is if we install a holding tank of 10,000 US Gallons. A 1" float switch from the town water complete with 1" line giving 15-20 G.P.M of water and a 2" pump to pump out of the tank in the playground. We will have to limit a maximum of 3 toys at a time to run approx. 35-45 G.P.M. We will make nozzles smaller where possible thus the 10,000 gallon tank / 40 G.P.M. = 250 minutes or 4.17 hours of run time. $250 \times 15 \text{ G.P.M. filling} = 3,750 \text{ gallons} / 40 = 93 \text{ minutes or } 1.57 \text{ hours.}$

This means $4.17 + 1.57 = 5.74$ hours at full usage, 3 toys at a time, not as designed. We may have to program the controller to stop for refilling at different times to keep the water levels up. Also if the tank gets low then the pump shuts off and has to be manually started. We can install a low float shut off so the pump will not have to be primed and to restart just a button has to be pushed.

Rain Man Plumbing Ltd. will

- Supply a 10,000 US gallon tank to site
- A 25mm water feed complete with float turn off when tank is full
- 4 anchors for tank
- A 14ft radius to sit tank on complete with 150mm concrete and 15mm rebar at 600mm spacing
- Pump giving 50gpm flow at 60psi, 220 volt complete with operation package
- New 50mm water line to playground equipment

Total cost \$29,450.00 + GST

Cost by using a Multi-Stage Pump

- Variable speed Gould's multi-stage
- 60gpm at 55psi boost
- Stainless steel
- This pump changes speed as required for different water uses, much better pump

Total extra if required \$3,245.00 + GST

Owner will supply

- All electrical for new pump controls 220 volt
- Excavate and haul away 14ft radius circle to clay base
- Bring in 150mm of ¾" road crush for tank, level and compact

Option #2

To run a 3" or 4" new water line from the city direct to our park. However, then the existing sewage line might be too small. What size is it? Pricing could be done through us.

A 3" line would give at 50 gallons/minute

1km 3300ft

50 gallon 33 x .29psi per 100ft loss = 9.58lbs

60 gallon 33 x .41psi per 100ft loss = 13.53lbs

A 4" line would give at 50 gallons/minute

1km 3300ft

50 gallon 33 x .08psi per 100ft loss = 2.64lbs

60 gallon 33 x .11psi per 100ft loss = 3.63lbs

Again at 60 gallons the sewer line may be too small

Steve says using 30 gallon/minute 10psi

Note: (parts only)

Cost for 3" DR17 1650ft per reel is \$9,360.00 + reel charge + delivery

Cost for 4" DR17 1100ft per reel is \$15,200.00 + reel charge + delivery

Cost for reels is \$600.00/reel refundable + reel charge + delivery

All installation would be extra to above prices.

The concrete slab may be eliminated if 4 screw piles are installed to anchor the tank in high winds.