

TOWN OF LUMSDEN
MINUTES OF THE WASTEWATER TREATMENT COMMITTEE MEETING
HELD ON JUNE 1ST, 2011

The Wastewater Treatment Committee held a meeting in the Centennial Hall in Lumsden, on the afternoon of Wednesday, June 1st, 2011 at 4:15 p.m. with Chairperson Rhonda Phillips presiding.

Present:

Chairperson:	Rhonda Phillips
Mayor:	Bryan Matheson
Councillors:	Doug Mader, Sid Sikorski, Al Sulma
Asst. Administrator:	Darcie Cooper
Utilities Foreman:	Dave Cherney

Associated Engineering (AE): Bill Heywood
Michael Whalley, Wastewater Process Specialist
Stan Togenrud
Warren Wilson, Peer Reviewer

Associated Engineering representatives attended to hold Workshop No. 2 to review the Draft Technical Memo for the Wastewater Treatment Facility with the Committee.

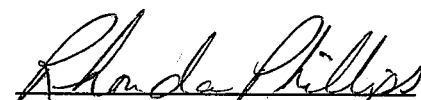
AE reviewed the following with the Committee:

- Process requirements Liquid Stream Treatment and Solids Stream Treatment
- alternatives for Liquid Stream Treatment and Solid Stream Treatment
- Liquid and Solid Stream Treatment Evaluation Criteria – Triple Bottom Line Criteria and Weights
- Wastewater Treatment Facility Site Selection, committee indicated their feeling that Site A1 would be the preferable location. Site A1 is located east of the intersection of the railroad and the access road to the landfill, south of the existing lagoons. It is already owned by the Town and the site is already elevated in relation to the other sites. Geotechnical reports have yet to be received from Clifton Associates Ltd.
- A new lift station may be required for the new wastewater treatment facility, however this still needs to be confirmed
- Discussed flow rates - for a normal to dry year maximum flow rate is approx. 1,100 m³/day. There is a contingency built in to the design for wet years to be up to 3,000 m³/day

The next meeting is scheduled for Wednesday, June 22nd at 4 pm.

Adjournment:

The meeting adjourned at 7:34 p.m.


Chairperson


Administrator



Date: June 1, 2011 **File:** 2010.4796.00.P.04.00
Time: 4:15 to 8:00 pm **Page:** 1 of 3
Project: Wastewater Treatment Facility
Subject: Workshop No. 2
Client: Town of Lumsden
Location: Town of Lumsden
Present: Bryan Matheson (Mayor, Town of Lumsden)
Rhonda Phillips (Committee Chair, Town of Lumsden)
Darcie Cooper (Administrator, Town of Lumsden)
Doug Mader (Councillor, Town of Lumsden)
Sid Sikorski (Councillor, Town of Lumsden)
Al Sulma (Councillor, Town of Lumsden)
Dave Cherney (Foreman, Town of Lumsden)
Dr. A. Warren Wilson (WPC Solutions Inc.)
Bill Heywood (Associated Engineering)
Mike Whalley (Associated Engineering)
Stan Torgunrud (Associated Engineering)
Behrooz Razban (Associated Engineering)
Distribution: All Present, Greg Schmidt, Dr. Dean Shiskowski

RECORD OF MEETING

These minutes are considered to be complete and correct. Please advise the writer within one week of any errors or omissions, otherwise these minutes will be considered to be an accurate record of the discussions.

Action By: Discussion:

1 INTRODUCTION (PRESENTED BY BILL HEYWOOD)

- AE has progressed on a number of components of the conceptual design:
 - Population projection. Design population of 3019 in 2040.
 - Flow monitoring ongoing. High daily flows have been observed since mid-April (>1000 m³/day, compare to approximately 550 m³/day winter 2011 and approximately 400 m³/day in 2008 and 2009).
 - Wastewater sampling program complete. Weak to medium strength wastewater observed.
 - Initial long list of sites A, B, C, D, E, F, G and H have been narrowed to sites CE (between C and E, west of existing lagoons) and new site A1 (downhill from landfill, near site A). Economic analysis of sites ongoing.
 - Evaluation of existing lift station and forcemain ongoing. Early findings suggest a new lift station will be required for design flows. Town expresses interest in deferring construction of new lift station to future if immediate upgrade is not required.
 - Summit Environmental has prepared a memo characterizing the receiving environment. Ministry of Environment (MOE) has reviewed and generally agrees with findings. MOE open to discuss TSS discharge limit to avoid requirement for



Subject: Qu'Appelle River Receiving Environment and Estimated Load Increases

May 3, 2011

Page 3 of 3

Action By: Discussion:

cover and be integrated with community gardens.

- IFAS is not typically implemented in a new facility. The process is very useful for expanding the capacity of an existing plant without building new tanks. Peer reviewer suggests considering an extended aeration facility with provisions for upgrading to IFAS for expanding capacity in the future.

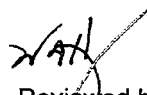
4 ECONOMIC COMPARISON (PRESENTED BY BILL HEYWOOD)

- Capital costs have been developed to compare extended aeration and IFAS plants.
- Costs for lift station, outfall and site development are not included.
- Capital cost estimates include contingencies, indirect costs and financial adjustments.
- Extended aeration capital cost estimate \$10.3M, annual operating cost estimate \$0.27M.
- IFAS capital cost estimate \$11M, annual operating cost estimate \$0.28M.
- Costs for comparison rather than budgeting purposes.
- Costs for lift station, outfall and site development to be developed.

5 OTHER

- Draft version of Technical Memorandum No. 2 Process Overview by Associated Engineering was provided to the Town.
- Draft version of Qu'Appelle River Receiving Environment and Estimated Load Increases by Summit Environmental was provided to the Town.
- Town inquired about the viability of implementing an extended aeration or IFAS 'packaged-plant'. Peer reviewer acknowledges that this is something for consideration however Lumsden will require a plant on a greater scale than most packaged plants are designed for.
- AE continuing to investigate potential for P3 approach to project delivery.
- Workshop No.3 set for Wednesday June 22, 2011.

Meeting minutes prepared by Stan Torgunrud.

 June 9, 2011
Reviewed by Bill Heywood.