
AGENDA
JOINT LAGOON COMMITTEE
REGULAR MEETING - Community Hall Sandy Beach Highway 642
63 Lakeshore Drive
Nov 9th, 2021 @ 7 PM.

- | | |
|--|-------------|
| 1.0 CALL TO ORDER | Action |
| 2.0 ACCEPTANCE OF AGENDA | Action |
| 3.0 APPROVAL OF MINUTES | |
| A. September 23 rd , 2021; | Action |
| 4.0 DELEGATIONS | Info |
| none | |
| 5.0 APPOINTMENT | |
| No scheduled appointment(s); | |
| 6.0 BUSINESS ARISING | |
| A. Lagoon Repair 2022 + Grant Applications by 30 th Nov 2021; | Action |
| B. Darwell Transmission Line Ph A (info); | Action |
| C. Lagoon Chair Expenses (Oct 31) approve; | Action |
| D. | Action |
| E. | Info/Action |
| F. | Info/Action |
| 7.0 DEVELOPMENT MATTERS None | |
| 8.0 NEW BUSINESS | |
| A. ATB Statement Sept 30 th , 2021 (<u>NO ACTION</u> required); | Info |
| B. | Action |
| C. | Info/Action |
| 9.0 LAGOON MANAGER REPORT | |
| A. | Info/Action |
| 10.0 CORRESPONDENCE ITEMS | |
| A. None | Info |
| NEXT MEETING | |
| To be determined | Info |
| ADJOURNMENT | Action |

MINUTES
JOINT LAGOON COMMITTEE
REGULAR MEETING OF THE JOINT LAGOON COMMITTEE
Sandy Beach Community Hall, Highway 642, 63 Lakeshore Drive
September 23rd, 2021 @ 6.30 PM.

IN ATTENDANCE

Committee

Michael Harney (Chair & Councillor Sandy Beach)
Denise Lambert (Mayor Sandy Beach) (*regrets*)
Larysa Luciw (Deputy Mayor Sandy Beach)
Jon Ethier (Mayor Sunrise Beach)
Mike Benson (Deputy Mayor Sunrise Beach) (*regrets*)
Everett Steenbergen (Councillor Sunrise Beach) (*regrets*)
Emily House (Public Member)

Lagoon Manager & Lagoon Discharge Support

Brett Henkel Lagoon Manager (*regrets*)
Guy Tremblay Lagoon Discharge Support

Administration (recording ONLY)

Rudolf Liebenberg (Sandy Beach)

1.0 CALL TO ORDER

Chair Michael Harney called the meeting to order at 6.40 p.m.

2.0 ACCEPTANCE OF AGENDA

MOVED by Emily House that the agenda be approved as presented and amended with the following additions; 6B: Discharge review; 6C: Remuneration Chair for special meetings and additional work.

Res. # 29 - 21

CARRIED

3.0

MINUTES, July 30th, 2021

Res. # 30 - 21

MOVED by Emily House that the minutes of the July 30th, 2021 meeting be accepted and approved as presented and printed. CARRIED

4.0

DELEGATIONS none

5.0

APPOINTMENTS none

6.0

BUSINESS ARISING

A.

Lagoon Repairs: Options 1 to 4

Res. # 31 - 21

MOVED by Larysa Luciw that the Joint Lagoon Committee request the respective Councils of the Summer Villages of Sandy Beach and Sunrise Beach approve the Engineers Morrison Hershfield apply for a ACP grant for the next Engineering study as it relates to the evaporative options for the lagoon and the motion include the Engineering Consultants be instructed to apply also for other grants that might be available for lagoon repairs and rebuild in the period 2022-2025.

CARRIED

B.

Joint Lagoon Committee Expenses

Res. # 32 - 21

MOVED by Emily House that lagoon committee expenses from members during 2021-2025 for special meetings with the Engineers (and other lagoon work) are approved at a cost of \$25/h for meetings, and 0.59 cents per kilometer mileage for travel that pertains to these meetings.

CARRIED

MEMORANDUM



TO: Michael Harney - Mayor
Rudolph Liebenberg -CAO

FROM: Nedal Barbar/Chad Newton

PROJECT No.: 180347100

RE: Sandy Beach Existing Lagoon Summary &
Recommended Upgrade Options

DATE: 11/17/2020

P:\2018\180347100-ENGINEERING STUDY SANDY BEACH\08. WORKINGMEMO - RECOMMENDED OPTIONS\MH MEMO -LAGOON IMPROVEMENT OPTIONS_17NOV2020.DOCX

Morrison Hershfield was retained by the Summer Village of Sandy Beach to evaluate the performance of the existing lagoon and propose recommended options for improvement. Background information was reviewed, and the lagoon currently exceeds its capacity.

This memorandum summarizes existing conditions and proposed options for improvement to the evaporation lagoon onsite.

Available Information

The following information was reviewed. No other data or reports were available.

- Project Binder supplied by the Summer Village
- Regional Lagoon Feasibility Study by Wardrop Alberta LTD, dated July 1990
- As-built drawings by Maxim Engineering, dated July 29, 1991
- Parts 3 and 4 of the *Standards and Guidelines for Municipal Waterworks, Wastewater and Storm Drainage Systems* (March 2013)

Existing System Conditions

The existing lagoon was constructed in Year 1991 and consists of three cells, a primary cell and two evaporation cells. Some of the berms are in need of repair and therefore the sewage level in lagoon will need to be lowered to accommodate the repairs.

Figure 1.0 shows a site plan of the area.

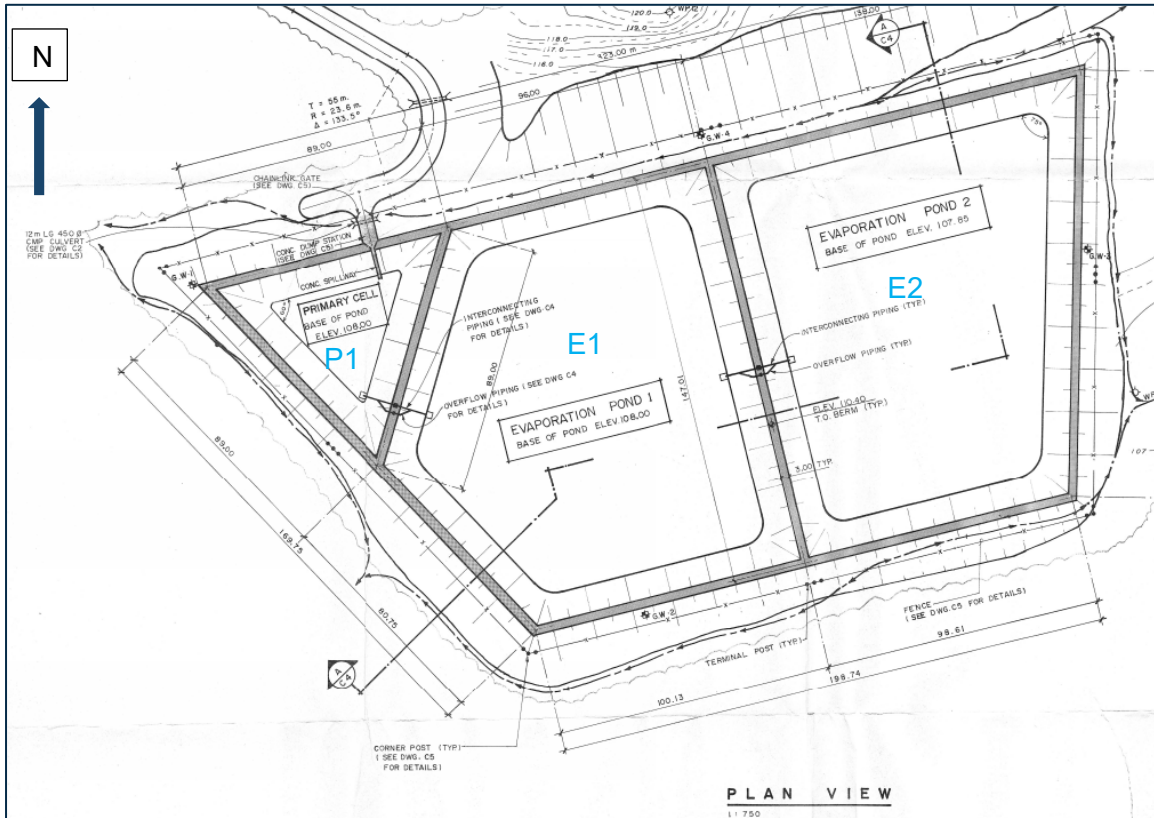


Figure 1.0

Table 1.0 shows the dimensions and volumes for all cells at maximum operation level but excludes freeboard. Original design included a Free Board (FB) of 0.9 m but currently the lagoon has a remaining freeboard of 0.1 m, therefore exceeding its capacity and occupying the freeboard area.

Table 1.0: Existing Lagoon Cells

Lagoon Cell	Treatment Cell	Side Slopes (H:V)	Max. Operation Liquid Depth	Liquid Volume m ³	Liquid Surface Area m ²	0.9 m Depth Freeboard Volume m ³	Total Volume (includes FB) m ³
P1	Primary Cell	4:1	1.50	2,460	2,100	1,890	4,350
E1	Evaporation Cell	4:1	1.50	20,660	15,200	13,680	34,340
E2	Evaporation Cell	4:1	1.65	20,020	14,850	13,365	33,385
Total				43,140	32,150	28,935	72,075

The lagoons are designed to hold a liquid volume of approx. 43,140 m³ (without the freeboard volume), however, the liquid is currently at approx. 68,860 m³ with approximately 0.1 m of freeboard remaining. The total available volume in existing lagoon is 72,075 m³, including the freeboard (28,935 m³).

This indicates that the freeboard depth is currently at 0.8 m and 89% of the design freeboard is occupied as shown in Table 2.0 below:

Table 2.0: Existing Freeboard

	Depth (m)	Approx. Volume (m ³)	% of Total FB Volume
Design Freeboard	0.9	28,935	n/a
Occupied Freeboard	0.8	25,720	89%
Vacant Freeboard	0.1	3,215	11%

Approximately 25,720 m³ of volume is in excess of the design capacity and needs to be relocated elsewhere through hauling, pumping, or a possible new lagoon cell in order to keep the existing lagoon running at its optimum operating capacity.

The *Regional Lagoon Feasibility Study* by Wardrop indicated that there will be a time in the design life of the lagoon where inflow will exceed evaporation. The lagoon level will continue to rise at that point until storage capacity is has been exceeded. The study stated a major discharge would be required to reduce the storage volume.

It appears this lagoon has passed that point and is currently reaching near the top of berm.

Existing Lagoon Limitations

At the time of design, the evaporation lagoon was designed based on a net evaporation rate of 180 mm/yr. This rate was confirmed to be near the calculated average based on available climate data from years 1980 to 2010. The existing cells were assessed to understand the sewage inflow limits. **Table 3.0** below shows that an influent of 15.9 m³/day (5787 m³/year) will evaporate from lagoon and not cause further increase in levels and will ensure the 0.9 m freeboard is available.

Table 3.0: Influent Limitations of Existing Lagoon

Influent Flow	m³/day	15.9
	m ³ /year	5,787
Net Evaporation Rate	mm/yr	180
Primary Cells		
Influent	m ³ /yr	5,787
Net Evaporative Water Loss in Lagoons	m ³ /yr	378
Effluent to Evaporation Cell #1	m ³ /yr	5,409
Evaporation Cell #1		
Influent from Primary Cell	m ³ /yr	5,409
Net Evaporative Water Loss in Lagoons	m ³ /yr	2,736
Effluent to Evaporation Cell #2	m ³ /yr	2,673
Evaporation Cell #2		
Influent from Evap. Cell #1	m ³ /yr	2,673
Net Evaporative Water Loss in Lagoons	m ³ /yr	2,673
Excess Effluent	m ³ /yr	-



Based on conversations with the Summer Village, there was approximately 10,500 m³/year (28.7 m³/day) being discharged into the lagoon, which is greater than the limit of 5787 m³/year (15.9 m³/day) available thru evaporation. Therefore, there is an excess of 4713 m³ being dumped into the lagoon per year which explains why the freeboard is currently at 0.1 m versus 0.9 m. Based on the occupied freeboard volume of 25,720 m³, **it may have taken an estimate of 6-7 years for lagoon freeboard to fill to that level based on the excess rate of 4713 m³/year.**

It should also be noted that in 2009 it was recommended that a desludging of the lagoon should be completed. However, this recommendation was not completed, and the capacity of the lagoon was further reduced by the sludge volume.

Design Standards and Guidelines

According to Parts 3 of the *Standards and Guidelines for Municipal Waterworks, Wastewater and Storm Drainage Systems* (March 2013), Section 3.4.2.1 states the following for evaporation ponds:

- “For systems with average daily design flows of less than 250 m³, the system may be designed with one evaporation cell. Provision must be made at the inlet to the cell for settlement and removal of sludge.”
- “In no case shall an evaporation lagoon provide less than 3 years of storage capacity based on average daily design flows.”
- “Evaporation cells shall not have a depth greater than 1.5 m.”

One of the evaporation cells, Cell E2, is a little over the depth limit but still acceptable (1.65 m vs 1.5 m). The minimum volume required based on a 3-year storage capacity and a daily average sewage flow of 26 m³/d (Year 2016) would be approximately 28,000 m³. The current lagoon volume exceeds this amount, however, the design should consider the rate of evaporation in sizing the surface area of the lagoon.

Recommended Options for Improving Lagoon Operation

Based on the existing conditions onsite, we have proposed 4 options for improving the function of this existing lagoon. **All options will require desludging.** A discharge extension which has been requested by MH to Alberta Environment would be required to bring the sewage level down further so repairs can be made. All options are discussed below:

1. **Option 1:** Discharge existing lagoon to a water level to allow repair to berms. Approval by Alberta Environment will be required prior to discharge. Restrict the capacity of the facility to 15.9 m³/day (5,787 m³/yr) and haul the rest 12.9 m³/day (4713 m³/yr) to another lagoon nearby. Long term hauling contract with Onoway or another facility would be required.
2. **Option 2:** Upgrade the system to 30 m³/day (10,950 m³/yr) by constructing another evaporation cell with a total surface of area of approximately 29,000 m². A sketch of Option 2 is shown below in **Figure 2.0**.

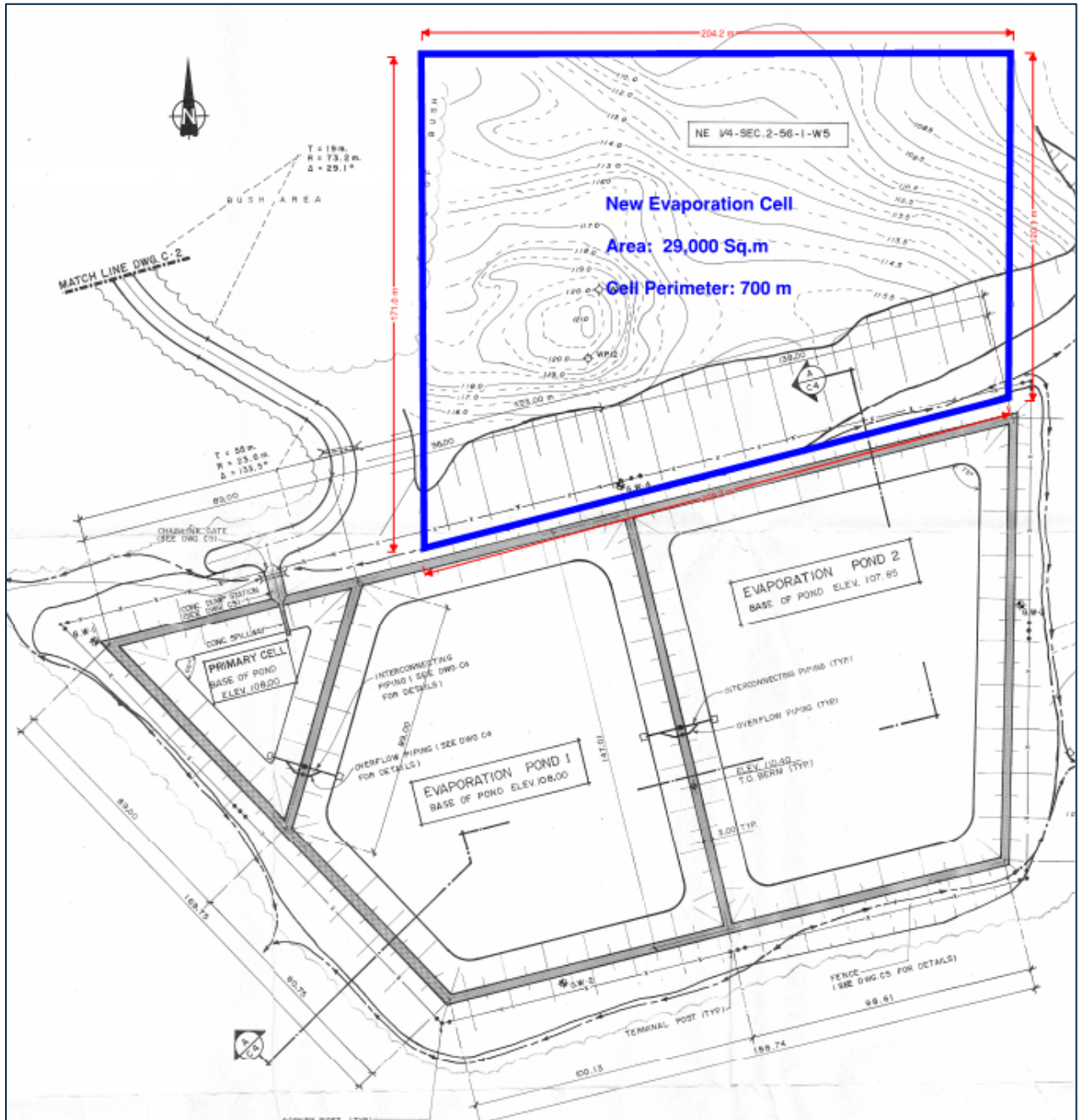


Figure 2.0

- Option 3:** Construct a conventional lagoon that consists of a primary cell with a storage volume of 2,700 m³ (includes freeboard) and storage cell with a volume of 13,000 m³ (includes freeboard) based on the inflow of 28.7 m³/day (10,500 m³/year). The storage cell will need to be deeper at 3.0 m with an outlet that is directed to Bard Lake. This option is subject to approval by Alberta Environment and the First Nation Reserve neighboring Bard Lake. A sketch of Option 3 is shown below in **Figure 3.0**. Decommissioning of the existing evaporation pond may be required.

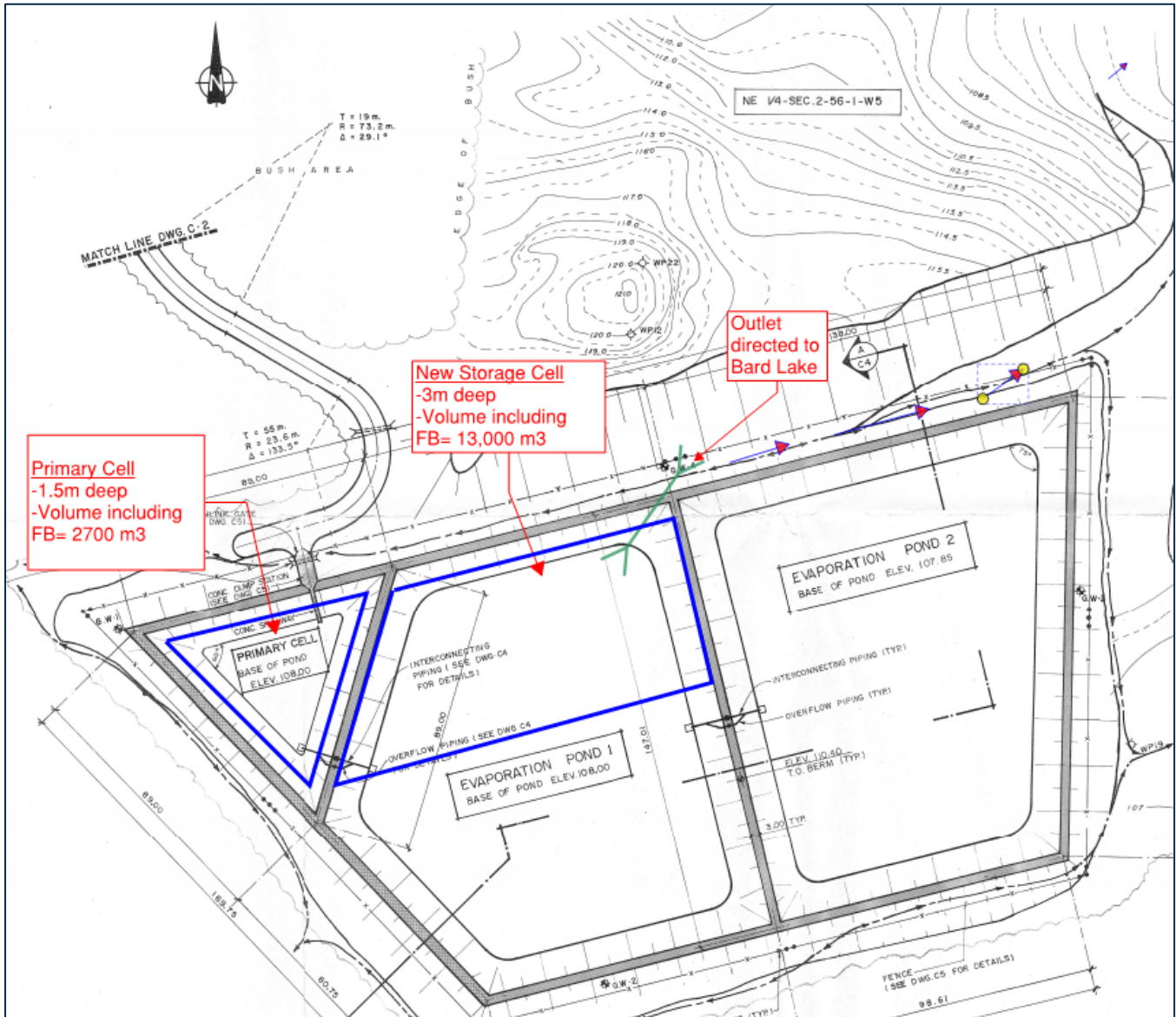


Figure 3.0

- Option 4:** Leave Lagoon operational but not in operation. Discharge existing lagoon to a water level to allow repair to berms. Approval by Alberta Environment will be required prior to discharge. Monitoring and reporting will be required to maintain lagoon capacity levels as required by Alberta Environment. Redirect all sewage to another lagoon for a period of time until volume is available in the cells. Hauling contract with Onaway or another facility required.

Costs:

Costs for each option are shown below in Table 4.0. The additional cost for Option 4 is negligible as the only costs that occur are desludging and repair to eroded berms. **Desludging of all cells is required by all options, and have been included in cost estimate.** Berm repair was assumed to be within the freeboard depth of Evaporation Pond 2 only.

Table 4.0: Cost Estimates for Each Option

	Total Cost
Option 1 - Restrict Inflow to 15.9 m ³ /day*	\$ 252,000
Option 2 - Evaporation Cell	\$ 2,531,000
Option 3 - Conventional Lagoon	\$ 1,119,000
Option 4 – Haul to Another Lagoon Offsite*	\$ 258,000

*Option 1 & 4 require an additional \$4713/year and \$10,500/year, respectively.

Detailed breakdown of this conceptual estimate is provided in **Appendix A**. Note that Option 1 and Option #4 would require an additional \$4713 per year and \$10,500 per year, respectively, for hauling to Onoway or another facility.

Note that the costs above are within ± 30% error. As design progresses, more accurate cost estimates can be provided.

Funding:

Research was completed on possible grants for water and wastewater systems in Alberta. The following are possible sources of funding for this project:

1. *Water for Life Program* – Provides cost-shared funding to regional commissions or groups of 2 or more municipalities and consists of 2 funding streams. One stream for new infrastructure and one for existing infrastructure.
2. *Alberta Municipal Water/Wastewater Partnership (AMWWP)* – Provides cost-shared funding to eligible municipalities to help build municipal facilities for water supply and treatment, and wastewater treatment and disposal.

Grant application are due yearly by Nov 30th, 2020. Engineering and repairs should be applicable.

Should you have any questions or concerns, please feel free to contact the Chad Newton or myself.



Yours truly,
Morrison Hershfield Limited



Chad Newton, MBA, PMP, Principal
PM Department Manager West,
Senior Project Manager

Nedal Barbar, P.Eng
Project Engineer

Morrison Hershfield Limited
APEGA PERMIT TO PRACTICE P2277

Brian Fanson, P.Eng.



Nov 18, 2020

Attached: Appendix A: Cost Breakdown



Appendix A - Detailed Cost Breakdown for Each Option

Summary

	Total Cost
Option 1 - Restrict Flow to 15.9 m3/day	\$ 252,134
Option 2 - Evaporation Cell	\$ 2,531,313
Option 3 - Conventional Lagoon	\$ 1,118,572
Option 4 - Haul to Another Lagoon	\$ 257,921

Option - 1 (Restrict to 15.9 m3/day)				
Item	Unit	Qty	Unit Rate	Cost
Additional Delta Hauling Costs	m3	4,713	\$ 1.00	\$ 4,713
(additional cost to haul to Onoway vs Current Lagoon)				
Sludge Removal and Disposal	LS	1	\$136,627	\$ 136,627
Repair to Berms (assumed just freeboard area of berm)	m ³	3187	\$20	\$ 63,748
Pumping between Cells	LS	1	\$33,846	\$ 33,846
Sewage Sampling	LS	1	\$4,400	\$ 4,400.00
Environmental Sampling for Sewage Disposal on Agricultural Land	LS	1	\$8,800	\$ 8,800.00
			<i>Sub Total</i>	<i>\$ 252,134</i>
Total Cost				\$ 252,134

* assumed current rate to original lagoon is ~\$4/m3

* new rate assumption \$5/m3

* these costs would be either absorbed by municipality or past directly onto residents

Option - 4 (Haul to Another Lagoon Offsite)				
Item	Unit	Qty	Unit Rate	Cost
Additional Delta Hauling Costs	m3	10,500	\$ 1.00	\$ 10,500
(additional cost to haul to Onoway vs Current Lagoon)				
Sludge Removal and Disposal	LS	1	\$136,627	\$ 136,627
Repair to Berms (assumed just freeboard area of berm)	m ³	3187	\$20	\$ 63,748
Pumping between Cells	LS	1	\$33,846	\$ 33,846
Sewage Sampling	LS	1	\$4,400	\$ 4,400.00
Environmental Sampling for Sewage Disposal on Agricultural Land	LS	1	\$8,800	\$ 8,800.00
			<i>Sub Total</i>	<i>\$ 257,921</i>
Total Cost				\$ 257,921

* assumed current rate to original lagoon is ~\$4/m3

* new rate assumption \$5/m3

* these costs would be either absorbed by municipality or past directly onto residents

Option - 3 (Conventional Lagoon)				
Item	Unit	Qty	Unit Rate	Cost
New Storage and Primary Cell				
Topsoil and subsoil Stripping 1m deep	m ²	7405	\$5	\$ 37,026
Topsoil Placement (150mm depth)	m ²	7405	\$1.5	\$ 11,108
Pond Storage Excavation	m ³	6500	\$10	\$ 65,000
Clay Bottom Placement (1.0m Thick)	m ²	7405	\$20	\$ 148,105
Wave protection on side slopes (250mm Thick)	m ²	594	\$65	\$ 38,610
Containment Berms	m ³	12882	\$20	\$ 257,645
Hydroseed	m ²	7405	\$1.0	\$ 7,405
Sludge Removal and Disposal	LS	1	\$136,627	\$ 136,627
Pumping between Cells	LS	1	\$33,846	\$ 33,846
Sewage Sampling	LS	1	\$4,400	\$ 4,400.00
Environmental Sampling for Sewage Disposal on Agricultural Land	LS	1	\$8,800	\$ 8,800.00
Control/Overflow Manhole or Chamber	each	1	\$35,000	\$ 35,000
Splash Pad	LS	2	\$10,000	\$ 20,000
Outlet Pipe	LS	1	\$25,000	\$ 25,000
			<i>Sub Total</i>	<i>\$ 828,572</i>
Mob/Demob/Insurances	10%			\$ 82,857
Contingencies and Engineering	25%			\$ 207,143
Total Cost				\$ 1,118,572

Option - 2 (New Evaporation Cell)				
Item	Unit	Qty	Unit Rate	Cost
New Evaporation Cell				
Topsoil and subsoil Stripping 1m deep	m ²	29000	\$5	\$ 145,000
Topsoil Placement (150mm depth)	m ²	29000	\$1.5	\$ 43,500
Pond Storage Excavation	m ³	40000	\$10	\$ 400,000
Clay Bottom Placement (1.0m Thick)	m ²	29000	\$20	\$ 580,000
Wave protection on side slopes (250mm Thick)	m ²	480	\$65	\$ 31,200
Containment Berms	m ³	14969	\$20	\$ 299,376
Hydroseed	m ²	29000	\$1.0	\$ 29,000
Sludge Removal and Disposal	LS	1	\$136,627	\$ 136,627
Repair to Berms (assumed just freeboard area of berm)	m ³	3187	\$20	\$ 63,748
Pumping between Cells	LS	1	\$33,846	\$ 33,846
Sewage Sampling	LS	1	\$4,400	\$ 4,400.00
Environmental Sampling for Sewage Disposal on Agricultural Land	LS	1	\$8,800	\$ 8,800.00
Control/Overflow Manhole or Chamber	each	1	\$35,000	\$ 35,000
Splash Pad	LS	2	\$10,000	\$ 20,000
Install Fence	m	495	\$90	\$ 44,550

Sandy Beach:

Scope of Work will include the following provisions:

1. Bathymetric survey of all three cells of the lagoon to determine sludge removal depth/volumes and any issues with the berms below water.
2. Geotechnical investigation to test for lagoon leakage and soils.
3. Survey of entire lagoon for detailed design (survey everything above lagoon water level).
4. Preliminary Report summarizing remediation (repair and restoration of the lagoon – Option 4) which includes the option of adding evaporators.
5. Detailed Design, Tender, Construction
6. Apply for the Grants or funding for all the above surveys, engineering studies, detailed design, and construction for lagoon before November 30, 2021. Grants/Funding available are the following:

a. Alberta Municipal Water/Wastewater Partnership

Include the following documents in the application [package](#):

- i. a letter to the Regional Director in the Alberta Transportation Regional Office from each member municipality or the regional commission requesting funding*
- ii. request for funding*
- iii. project plan*
- iv. project description*
- v. project rationale (design criteria)*
- vi. proposed implementation schedule*
- vii. detailed cost estimates following the cost estimate requirements*
- viii. outline of how the municipal share of project costs will be funded*
- ix. rate base for water and wastewater service and the extent of metering*

b. Water For Life (Regional Application – Sunrise and Summer Village must apply)

Include the following documents in the application [package](#):

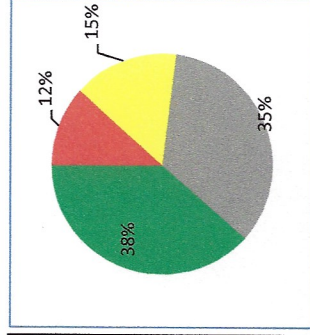
- i. a letter to the Regional Director in the Alberta Transportation Regional Office (PDF, 148 KB) from each member municipality or the regional commission requesting funding*
- ii. request for funding*
- iii. project description*
- iv. project rationale (design criteria)*
- v. proposed implementation schedule*
- vi. detailed cost estimates following the cost estimate requirements*
- vii. outline of how the municipal share of project costs will be funded (if applicable)*
- viii. proposed rates and the impact on the cost for services for each member municipality*
- ix. rate base for water and wastewater service and the extent of metering for each member municipality*

Action Log

MYALTA VENTURES LTD.

Project ID	2019010A
Project	PHASE A - SANDY BEACH/SUNRISE BEACH to ONOWAY
Last	2021-01-26

Status	Count
Due	3
Open	4
Hold	9
Complete	10
Total	26



Action #	Topic	Action Items/Open Questions	Resp.	Date Raised	Due Date	Status	Comments
9	Technical Committee Meetings	Regularly scheduled Technical Meetings with MPE, County, and Myalta.	MPE, County, and Myalta.	19-May-20	31-Oct-21	Open	Minutes of Technical Committee Meeting #13 and #14 are attached.
11	Pre-Design Report	MPE submission of report.	MPE, County, and Myalta.	19-May-20	31-Dec-20	Open	Pre-Design Report delayed due to land acquisition for second lift Station. Application for use of HWY 641 Row has been submitted based on positive response from AT Regional Director.
12	Public Meeting?	Is a Public Meeting Required?		2-Jun-20	TBA	Hold	Project "IN REVIEW" as Summer Village's request. Virtual "Open House" to be held and will include Town of Onoway.
13	Town of Onoway Approval	Obtain Town of Onoway Approval for use of Town's Lagoon Facility	County and Myalta	2-Jun-20	31-Oct-20	Hold	Project "IN REVIEW" as Summer Village's request. DRAFT Wastewater Service Agreement has been provided to Town and Steering Committee (SC). SC to provide comments by October 26 then a meeting will be arranged with Town for Final Review of Agreement.
14	Governance Alternatives	Engage the Services of Brownlee Law to prepare a paper on the alternatives for governance.	County and Myalta	4-Jun-20	15-Nov-20	Hold	Project "IN REVIEW" as Summer Village's request. Brownlee Law to prepare a presentation for a meeting of all interested parties for "Governance" alternatives for the Regional Concept.
14A	Agreement - Darwell, SVs, County	Administration of project, funds, responsibilities, etc. among parties	County and Myalta	4-Jun-20	31-Oct-20	Hold	Project "IN REVIEW" as Summer Village's request. Brownlee Law has provided a "Clean Copy" of MOU for Lac Ste Anne County, SV of Sunrise Beach, SV of Sandy Beach, and Darwell Lagoon Commission to pass resolutions to sign MOU.

15	Final Design for Wastewater Lift Stations	Completed Detailed Design, Drawings, and Contract Documents for Lift Stations and Septage Receiving Station	MPE, County, and Myalta.	19-May-20	15-Nov-20	Open	Detailed DWGS are being completed. To be finalized when Land has been assembled for Lift Station #2
16	Final Design for Wastewater Transmission line	Completed Detailed Design, Drawings, and Contract Documents for Wastewater Transmission Line	MPE, County, and Myalta.	19-May-20	30-Sep-20	Open	Dwgs and Tender Package is 90% and awaiting finalization of LS#2 for final alignment of transmission lines.
17	Tender for Wastewater Transmission line	Project Tenders Close	MPE, County, and Myalta.	19-May-20	1-Dec-20	Hold	Project "IN REVIEW" as Summer Village's request. Rescheduled due to Administrative procedures that need to be completed.
18	Tender for Lift Stations	Project Tenders Close	MPE, County, and Myalta.	19-May-20	15-Dec-20	Hold	Project "IN REVIEW" as Summer Village's request. Rescheduled due to Administrative procedures that need to be completed.
19	Construction Start - Wastewater Transmission Line	Contract awarded and Construction Starts	Contractor	19-May-20	21-Jan-01	Hold	Project "IN REVIEW" as Summer Village's request.
20	Construction Start - Lift Stations and Septage Receiving Station	Contract awarded and Construction Starts	Contractor	19-May-20	21-Jan-01	Hold	Project "IN REVIEW" as Summer Village's request.
21	Construction Completion	Project is Operational	Contractor, MPE, County, and Myalta	19-May-20	1-Jun-21	Hold	Project "IN REVIEW" as Summer Village's request.



Minutes of Meeting #13

Design Update

Client: Darwell Lagoon Commission **File:** N:\52\25\018-00\MM13
Project: Sandy Beach/Onoway Regional Wastewater Transmission Line
Date: December 1, 2020
Time: 10:00 a.m.

Attendance:

Joe Duplessie	Lac Ste. Anne County	iduplessie@lsac.ca
Brian Hartman	Lac Ste. Anne County	bhartman@lsac.ca
Mike Yakemchuk	Darwell Lagoon Commission	myalta@shaw.ca
Jason Madge	Town of Onoway	jason@onoway.ca
Ryan Sharpe	MPE Engineering Ltd.	rsharp@mpe.ca
Scott Kusalik	MPE Engineering Ltd.	skusalik@mpe.ca

Absent: None

Location: GoToMeeting Video Conference

Purpose: Design Update

Distribution: All Present

**Action
Req'd
By:**

1.0 Forcemain:

- Alignment along Highway 642: MPE has applied to Alberta Transportation (AT) for the Highway crossing as well as approval to install the forcemain and low pressure sewer within the Highway right-of-way. MPE continues to follow up. No approvals received to date.
- Onoway Tie-in Agreement: The Town has agreed in principle with the tie-in proposed at the lagoon site. Town will ratify the agreement with the Summer Villages of Sandy Beach and Sunrise Beach when the Summer Villages have an agreement in place.
- Onoway Lagoon Details: MPE posted updated layout on the FTP site. DLC to review. **DLC**

2.0 Lift Station:

- Discussed placement of the Sandy Beach lift station. DLC requested a short technical memo comparing the current, proposed location versus the existing Sandy Beach lagoon site. MPE to assemble a Tech Memo. A summary of the tech memo will be included in the preliminary design report. **MPE**
- DLC has had discussions with WILD regarding potable water supply to the SRS building. A basic system only is required with minimal equipment. DLC to follow up with WILD. **DLC**

- Scott Land has had initial contact with the landowner on the east side of range Road 13 (across from Roger Dunsdall's). He has plans to construct buildings at the front of his property where the lift station is proposed. He suggested discussing with the landowner to the north. Scott Land discussed with this landowner as well and he is not open to selling land for the lift station. MPE and Scott Land to re-engage Roger Dunsdall to secure land west of Range Road 13. **MPE**
- Power Service: MPE noted that Fortis no longer allows higher capital cost with reduced monthly power rates. MPE to discuss further with Fortis when lift station locations and design loads are finalized. **MPE**

3.0 Regulatory:

- AEP has indicated that the system must be registered as a collection system but will be treated as a transmission system for operation and sampling requirements. DLC requested that the submission to AEP under EPEA be deferred until tender dates are finalized (submit within two months of tender start). **Update:** DLC noted a letter of commitment from the Owner(s) will be required as part of the submission. **MPE**
- MPE has submitted the notification to AEP under the Water Act in early October for creek and wetland crossings. No comments to date from AEP.

4.0 Miscellaneous:

- Geotechnical Investigation is complete aside from the intermediate lift station site and along Highway 642. WILD has provided preliminary geotechnical results along Highway 642. Boreholes for the intermediate lift station to be completed after the site location is confirmed and permission is granted from the landowner.
- Utility crossing agreements have been initiated. Only update from the previous meeting is the Xplornet Tower at the Sandy Beach Lift Station site.
 - Xplornet – Require a proximity agreement for constructing the wet well adjacent to the tower. DLC provided a sample proximity agreement.
 - ATCO natural gas – agreement received and signed by DLC.
 - Fortis – MPE working on crossing agreement for overhead power lines as well as proximity agreement where the forcemain is on the same side of the road as power. The agreement is close, ongoing discussions with Fortis regarding portions of the alignment where the pipeline parallels overhead power.
 - In Play Oil – After reviewing further review the site is abandoned and currently owned by Conoco Phillips.
 - Pembina Pipelines – Crossing request issued on July 14. Pembina is also experiencing a high volume of third party requests but they are working on an agreement.
 - Ste. Anne Gas Co-op – The County and MPE are working with the gas co-op to ensure the agreement is in the proper name (Darwell Lagoon Commisison, not the Contractor nor MPE).
 - Telus – Crossing Agreement finalized.

- DLC is working with the Summer Villages of Sandy Beach and Sunrise Beach to establish DLC agreements for wastewater collection.

Schedule:

- Target Milestones are as follows:
 - Forcemain Tender – May 30, 2020.
 - Lift Station Tender – May 30, 2020.
 - Due to agreements and ongoing administrative requirements by the Summer Villages, the tender dates have shifted by 6 months.
- MPE provided a proposed tender schedule update to each pre-qualified contractor.

6.0 Budget:

- DLC has reviewed the updated cost estimate and will use it moving forward for all discussions with municipalities and grant funding agents.

Meeting was adjourned at 11:00 am. Next meeting will be held December 15 at 10:00 am.

Recorded by: Ryan Sharpe

If there are any errors, omissions, or discrepancies, please contact the MPE office at (780) 486-2000.



Minutes of Meeting #14

Design Update

Client: Darwell Lagoon Commission **File:** N:\52\25\018-00\MM14
Project: Sandy Beach/Onoway Regional Wastewater Transmission Line
Date: December 15, 2020
Time: 10:00 a.m.

Attendance:

Joe Duplessie	Lac Ste. Anne County	jduplessie@lsac.ca
Brian Hartman	Lac Ste. Anne County	bhartman@lsac.ca
Mike Yakemchuk	Darwell Lagoon Commission	myalta@shaw.ca
Jason Madge	Town of Onoway	jason@onoway.ca
Ryan Sharpe	MPE Engineering Ltd.	rsharp@mpe.ca
Scott Kusalik	MPE Engineering Ltd.	skusalik@mpe.ca

Absent: None

Location: GoToMeeting Video Conference

Purpose: Design Update

Distribution: All Present

**Action
Req'd
By:**

1.0 Forcemain:

- Alignment along Highway 642: MPE has applied to Alberta Transportation (AT) for the Highway crossing as well as approval to install the forcemain and low pressure sewer within the Highway right-of-way. MPE continues to follow up. No approvals received to date. Roadside Dev Permit received.
- Onoway Tie-in Agreement: The Town has agreed in principle with the tie-in proposed at the lagoon site. Town will ratify the agreement with the Summer Villages of Sandy Beach and Sunrise Beach when the Summer Villages have an agreement in place.
- Onoway Lagoon Details: MPE posted updated layout on the FTP site. DLC has no issues or comments. **DLC**

2.0 Lift Station:

- Discussed placement of the Sandy Beach lift station. MPE completed a short technical memo comparing the current, proposed location versus the existing Sandy Beach lagoon site. The technical memo is posted on the FTP site. Additional cost is approximately \$1.5 Million and the future low pressure sewer system from Sunrise Beach is challenging and may require a separate discharge point. A summary of the tech memo will be included in the preliminary design report. **MPE**

- DLC has had discussions with WILD regarding potable water supply to the SRS building. DLC proposing to have a 300 gallon tank or a size that will fit in the SRS building, along with other equipment as required (valves, piping, check valve, etc.). MPE to complete a design and send to WILD. **MPE**
- Scott Land has made progress with the landowner west of Range Road 13. An agreement for land acquisition, in the amount of \$7,000 has been signed by the landowner. MPE to forward documents to DLC for execution. **MPE**

3.0 Regulatory:

- AEP has indicated that the system must be registered as a collection system but will be treated as a transmission system for operation and sampling requirements. DLC requested that the submission to AEP under EPEA be deferred until tender dates are finalized (submit within two months of tender start). DLC noted a letter of commitment from the Owner(s) will be required as part of the submission. **MPE**

4.0 Miscellaneous:

- Geotechnical Investigation is complete aside from the intermediate lift station site and along Highway 642. WILD has provided preliminary geotechnical results along Highway 642. Boreholes for the intermediate lift station to be completed after permission is granted from the landowner.
- Utility crossing agreements have been initiated. Only update from the previous meeting is the Xplornet Tower at the Sandy Beach Lift Station site.
 - Xplornet – Require a proximity agreement for constructing the wet well adjacent to the tower. DLC provided a sample proximity agreement.
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 - Ste. Anne Gas Co-op – The County and MPE are working with the gas co-op to ensure the agreement is in the proper name (Darwell Lagoon Commisison, not the Contractor nor MPE).
 - Telus – Crossing Agreement finalized.
- DLC is working with the Summer Villages of Sandy Beach and Sunrise Beach to establish agreements for wastewater collection. **DLC**

Schedule:

- Target Milestones are as follows:
 - Forcemain Tender – May 30 2021, subject to Agreements with Summer Villages and the Town of Onoway.
 - Lift Station Tender – May 30, 2021, subject to Agreements with Summer Villages and the Town of Onoway.
 - Due to agreements and ongoing administrative requirements by the Summer Villages, the tender dates have shifted by 6 months (Tender start now proposed for May 30, 2021).
- MPE provided a proposed tender schedule update to each pre-qualified contractor.
- MPE to finalize the design for the forcemain and lift stations in preparation of a May tender.

6.0 Budget:

- DLC has reviewed the updated cost estimate and will use it moving forward for all discussions with municipalities and grant funding agents.
- MPE to submit additional costs for the following items:
 - Addition of SRS at Onoway Lagoon Site.
 - Assessment of Sandy Beach lift station location (current versus existing Sandy Beach lagoon).
 - Extension of design time (additional meetings, administration).

Meeting was adjourned at 11:00 am. Next meeting will be held January 12 at 10:00 am.

Recorded by: Ryan Sharpe

If there are any errors, omissions, or discrepancies, please contact the MPE office at (780) 486-2000.

DARWELL LAGOON COMMISSION

PROJECT COST SUMMARY

REGIONAL WASTEWATER TRANSMISSION LINE - PHASE A (SANDY BEACH to ONOWAY)

		Spent to Date 31-Dec-20	% Spent
Construction			
Wastewater Transmission Line	\$4,300,000.00	\$ -	
Lift Station No. 1 and SRS	\$1,800,000.00	\$ -	
Lift Station No. 2	\$1,200,000.00	\$ -	
Miscellaneous	\$ 702,000.00	\$ -	
Construction Budget	\$ 8,002,000.00	\$ -	0.0%
Engineering			
Proposal	\$ 493,929.00		
Change Order No. 1 Geotechnical	\$ 17,150.00		
Change Order No. 2 Add. Eng. SRS	\$ 88,426.00		
Change Order No. 3 Add. Eng. Align.	\$ 30,186.00		
Change Order No. 4 Legal Survey	\$ 3,956.00		
Eng. Contingency	\$ 76,353.00		
Engineering Budget	\$ 710,000.00	\$ 250,250.45	35.2%
Project Management Services	\$ 100,000.00	\$ 58,873.96	58.9%
Miscellaneous			
Budget Remaining	\$ 28,491.71		
Lunch -Lagoon Phase A	\$ 340.00	\$ 340.00	
Brownlee LLP	\$ 5,380.45	\$ 5,380.45	
Town of Onoway	\$ 570.80	\$ 570.80	
Hall Rental	\$ 50.00	\$ 50.00	
Town of Onoway	\$ 315.00	\$ 315.00	
Brownlee LLP	\$ 4,188.87	\$ 4,188.87	
Hall Rental	\$ 40.00	\$ 40.00	
Hall Rental	\$ 40.00	\$ 40.00	
Brownlee LLP	\$ 10,183.17	\$ 10,183.17	
Town of Onoway	\$ 400.00	\$ 400.00	
Miscellaneous Budget	\$ 50,000.00	\$ 21,508.29	43.0%
Contingency	\$ 831,200.00	\$ -	0.0%
PROJECT COST SUMMARY		\$ 9,693,200.00	\$ 330,632.70 3.4%

Water for Life Grant	\$ 8,723,880.00	
Water for Life Grant Received	-\$ 5,000,000.00	-\$5,000,000.00
Water for Life Grant Due	\$ 3,723,880.00	-\$4,669,367.30

Approved Water for Grant Amount \$11,272,500.00

Hi All Members of Phase A Steering Committee and Administrators

The following link gives you access to the November and December Project Management Reports for the Project. It also provides you access to the Final Predesign Report for the Project which has all the pertinent information on the Project including design criteria and drawings. You will note that the report is some 365 pages.

You have 2 weeks to download the information for your use and then I will disable the URL. I trust this is the information you were seeking in making your decision on participation.

https://www.dropbox.com/sh/leav12vp5gt7b4v/AAAMwTn6hX7u7tKP0tKK9ZA_a?dl=0

Please let me know if you have any difficulty in downloading the reports.

Mike Yakemchuk
780-231-3698

Statement date September 30, 2021

Transit number 08989-219

Customer number 0000063389

Page number 1 of 1

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SANDY BEACH AND SUNRISE BEACH
JOINT LAGOON COMMITTEE
JOINT LAGOON AUTHORITY
COMP 63 RR 1 SITE 1
ONOWAY AB TOE 1V0

Your ATB Financial Branch

08989 Onoway Branch
4910 50 St
Onoway AB
TOE 1V0

If you have any questions, contact us at
1 800 332-8383 or visit us at
www.atb.com

A summary of Deposit Account Pay As You Go Account

00110547724	Transit # 08989-219
Your balance forward on Aug 31, 2021	\$3,121.53
Debits to your account (1 item)	- \$8.00
Credits to your account (0 items)	+ \$0.00
Your closing balance on Sep 30, 2021	= \$3,113.53

Details of your account transactions

Date	Description	Debits to your account (\$)	Credits to your account (\$)	Balance (\$)
Aug 31	Balance forward			\$3,121.53
Sep 30	Monthly Maintenance Fees	\$8.00		3,113.53
Sep 30	Closing balance			\$3,113.53

Find an error? Give us a call or drop by a branch. We'll take care of it.