

Date:	December 12, 2013	File:	20132344.00.A.04.01
Time:	12:30-3:00 pm	Page:	1 of 3
Project:	Port Alberni Wastewater Upgrades		
Subject:	Wastewater Advisory Committee Meeting #5		
Client:	City of Port Alberni		
Location:	City Hall, Argyle Street, Port Alberni, BC		
Present:	<p>Rick Avis - Somass Estuary Management Plan Committee / Alberni Valley Enhancement Association (AVEA)</p> <p>Hira Chopra – City of Port Alberni</p> <p>David Clough – Independent Fisheries Biologist</p> <p>Guy Cicon - City of Port Alberni</p> <p>Quinn Crosina – Associated Engineering (AE)</p> <p>Larry Cross – Catalyst Paper</p> <p>Sheena Falconer – West Coast Aquatic</p> <p>Hugh Hamilton – AE / Summit Environmental (by phone)</p> <p>Baljeet Mann – Ministry of Environment (by phone)</p> <p>Jack McLeman – City of Port Alberni</p> <p>Tom Robinson – AE</p> <p>Jana Tondur – AE / Summit Environmental (by phone)</p> <p>Ken Watson – City of Port Alberni</p> <p>Brad West – McGill & Associates Eng.</p> <p>Kirsten White – Ministry of Environment (MOE)</p>		
Distribution:	<p>Those Present</p> <p>James Arnott – Environment Canada</p> <p>Steven Baxter – Port Alberni Port Authority</p> <p>Jeanine Bond – Ducks Unlimited</p> <p>Stephanie Bruvall – Ministry of Health</p> <p>Kelly Bush – Associated Engineering</p> <p>Bill Collette – AV Chamber of Commerce</p> <p>Jason Clarke – Worley Parsons</p> <p>Andy Daniel – Alberni-Clayoquot Regional District</p> <p>Phil Edgell – AVEA</p> <p>Wendy Gallic – Tseshah First Nation</p> <p>Elysha Gordon – Dept. of Fisheries and Oceans</p> <p>Joe Holmes – Western Forest Products</p> <p>Kim Hyatt – Dept. of Fisheries and Oceans</p> <p>Wendy Lee Kerr – City of Port Alberni</p> <p>Dave McCormick – Port Alberni Port Authority</p> <p>Andrew Olson – Tseshah First Nation</p> <p>Ashley Popovich – Catalyst Paper</p> <p>Dean Shiskowski – AE</p> <p>Michal Simhon – AE</p> <p>Scott Smith – City of Port Alberni</p> <p>Steve Tatoosh – Hupacasath First Nation</p> <p>Ivy Whitehorne – Ducks Unlimited</p>		

RECORD OF MEETING

This Record of Meeting is considered to be complete and correct. Please advise the writer within one week of any errors or omissions, otherwise this Record of Meeting will be considered to be an accurate record of the discussions

Subject: Wastewater Advisory Committee Meeting #4

December 12, 2013

- 2 -

Action By:

Discussion:

1 INTRODUCTIONS

Info

New Wastewater Advisory Committee (WAC) meeting attendees, Hiram Chopra and David Clough, were introduced.

2 BACKGROUND AND PRIOR DISCUSSIONS

Info

Tom summarized the project history and the liquid waste management plan (LWMP) process. Guy shared some photos and video taken of the lagoon and surrounding area (e.g. Somass River, Alberni Inlet).

3 EFFLUENT DISCHARGE LOCATION SCREENING EXERCISE

Info

Tom provided a re-cap of the discussions and screening exercise complete to-date, as well as the planned investigations required to confirm the preferred option: sediment sampling, shellfish survey, and archaeological investigations.

4 LIQUID WASTE MANAGEMENT PLAN STAGE 2 DOCUMENT

Info

Quinn presented an overview of the draft LWMP Stage 2 document, currently in development, with slides describing the content of each section (appended). Once the draft is complete, it will be distributed to WAC members for review and comment.

Info

Tom made reference to the flows and loads being used as the basis for planning (Section 4 of the document) and the engineering challenges presented by the unusually high peaking factor in the flows.

Info

Baljeet Mann stated that the results of the EIS will ultimately inform the site-specific standards for wastewater effluent requirements (and thus treatment requirements).

Info

There was some discussion about the public consultation process. It was agreed that a communication plan will be developed as one of the next steps of the project. Tom spoke about providing opportunity for the public to provide comment towards the end of Stage 2, before the document is ultimately approved by the MOE.

Baljeet noted that the communication plan will need to refer to the Ministry's Consultative Area Database, which identifies which First Nations are to be included in

Subject: Wastewater Advisory Committee Meeting #4

December 12, 2013

- 3 -

Action By:

Discussion:

the consultation process and the level of communication recommended for those in closer and further proximity to the project. Baljeet and Kirsten emphasized the importance of documenting the consultation process for the Minister's review prior to approval of Stage 2.

5 ENVIRONMENTAL IMPACT STUDY

Hugh (via teleconference) provided an overview of Part 1 of the Environmental Impact Study (EIS), which is also being drafted alongside the Stage 2 document (slides appended). He noted that the EIS will be split into two parts in order to adequately address the scope and complexity of the project (as is typical for projects of this nature). Hugh noted that the presence of rare and endangered species, such as those noted by Rick Avis during the discussion, will be covered.

Larry Cross asked if it is common to have a baseline condition that includes an existing municipal lagoon. Hugh responded that every project is unique but one complexity of this project is the close proximity to the Catalyst discharge, in addition to the existing municipal discharge. Hugh emphasized that the aim of the project is to improve upon the status quo.

6 NEXT STEPS

It was agreed that the date for the next WAC meeting would depend on the timing of the review periods for the draft LMWP Stage 2 document and the Part 1 EIS document, as well as when results are available from the upcoming planned investigations, which are currently planned for January 26 – 28th, 2014. Tom noted that the timing of the investigations is contingent on permit applications (for the archaeological permit) and must be scheduled to take place during appropriate tidal and daylight conditions.

Prepared by:

Reviewed by:



Quinn Crosina, M.A.Sc., P.Eng.
Environmental Engineer



Tom Robinson, M.A.Sc., P.Eng.
Project Manager

QC/TR/lp

City of Port Alberni Wastewater Advisory Committee

December 12, 2013

City of Port Alberni Wastewater Upgrades – Stage 2 LWMP

Wastewater Advisory Committee

Meeting No. 5


City of Port Alberni Wastewater Advisory Committee

Agenda

1. Introductions
2. Background
 - Objective: to establish the preferred discharge location
3. Effluent Discharge Location Screening Exercise
4. LWMP Stage 2 Document
5. EIS Part 1 Document
6. Next Steps

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Introductions




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Background

Alternative Locations for Treated Effluent Return to the Environment

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The new discharge needs to meet regulations and protect the environment



Long discharge pipe and challenging Phosphorus objective

City Lagoon

Present Discharge Location

Catalyst Lagoon

A discharge in the intertidal zone would impact the ecosystem

This location is too shallow for an estuary discharge

Preferred discharge location but must avoid fibre mat. Further investigations are required

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Overall Objective

Project Definition

- i. Establish discharge location
- ii. Establish treatment objectives
- iii. Establish effluent quality requirements
- iv. Completion of Stage 2 LWMP

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Screening Category & Attributes	Option 1a Freshwater River Discharge (out of town area)	Option 2a Estuarine River Discharge	Option 2b Estuarine Inlet Discharge	Option 3 Intertidal Zone Wastworks
First Nations past use including weir fish traps, etc. and current perspectives including traditional use plants	Not applicable	Not applicable	First Nations investigation in progress	Not applicable
Mill related contamination of intertidal mud flat areas	Not applicable	Not applicable	Not applicable	Not applicable
300 m distance from edge of IDZ to recreational areas, water intakes, shellfish harvesting areas	Not applicable	Not applicable	Not applicable	Not applicable
Purple varnish clams, which is a potentially harvestable invasive species, unlikely in area but investigative work needed to confirm.	Not applicable	Not applicable	Not applicable	Not applicable

Effluent Discharge Location Screening Exercise

methodology – judgements

sufficient information exists at this time to make a PASS judgement on this alternative attribute and a PASS has been assigned

insufficient information exists at this time to make either a PASS or FAIL judgement on this alternative attribute

sufficient information exists at this time to make a FAIL judgement on this alternative attribute and a FAIL judgement has been assigned

City of Port Alberni Wastewater Advisory Committee	
Screen Category & Attribute	Option 2b Estuarine Inlet Discharge
First Nations past use including weir fish traps, etc. and current perspectives including traditional use plants	First Nations Investigation in progress
Mill related contamination of intertidal mud flat areas	Limited screening-level sampling program required to understand potential economic implications related to trenching/spoils management and construction methods
300 m distance from edge of IDZ to recreational areas, water intakes, shellfish harvesting areas	Purple varnish clams, which is a potentially harvestable invasive species, unlikely in area but investigative work needed to confirm.

Upcoming Investigations

- Archaeological Investigations
 - Led by Denis St. Claire and Nicole Smith
 - Waiting to receive comments back on the proposal
 - Planned for January 26-28, 2014
 - Archaeological Permit required
- Sediment Investigation and Shellfish Survey
 - Planned for the same time as the archaeological investigations

Today's Objective:

Discuss the content of the LWMP Stage 2 Document and the EIS Part 1 Document

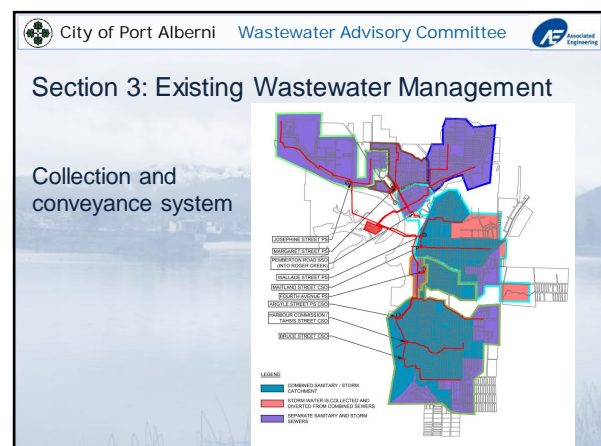
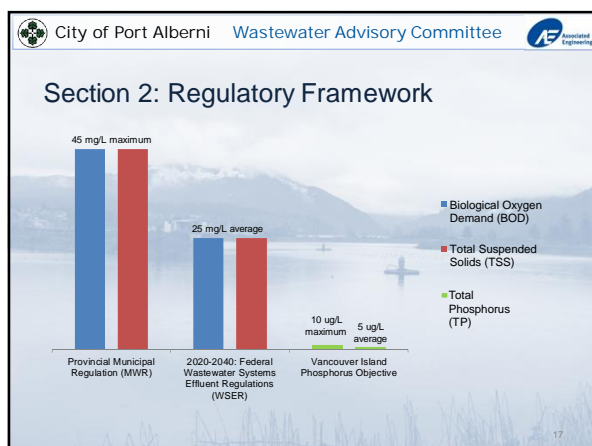
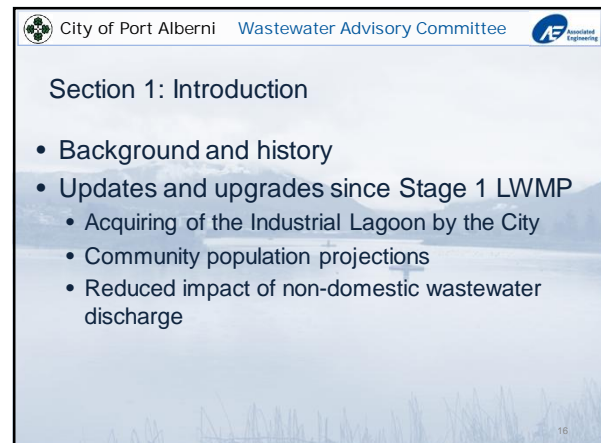
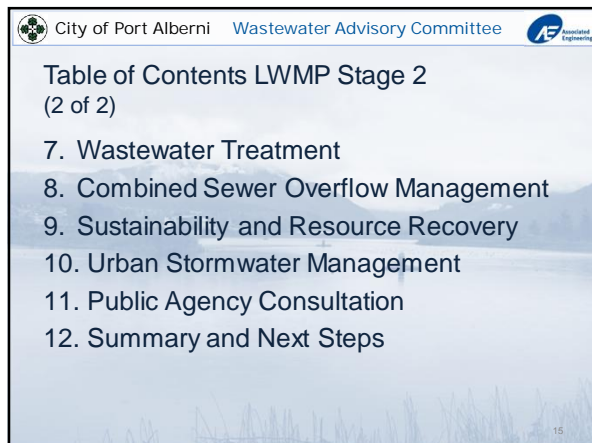
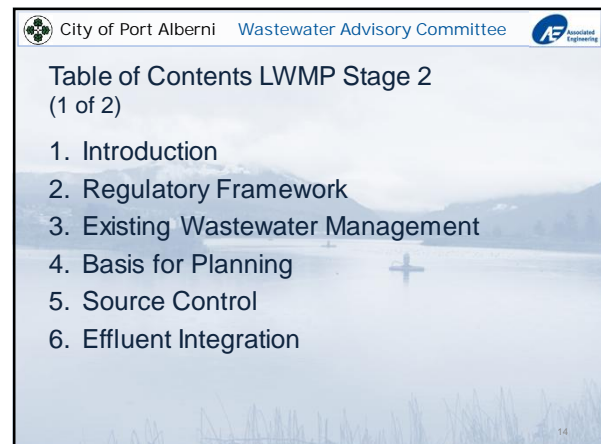
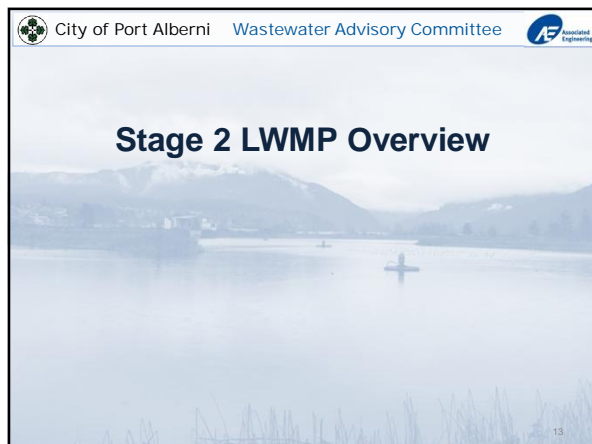
Liquid Waste Management Plan process

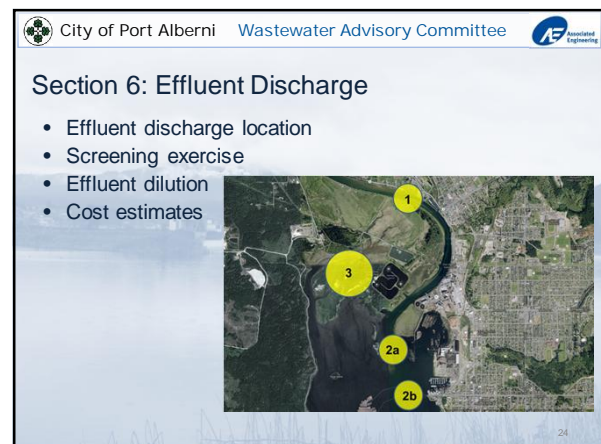
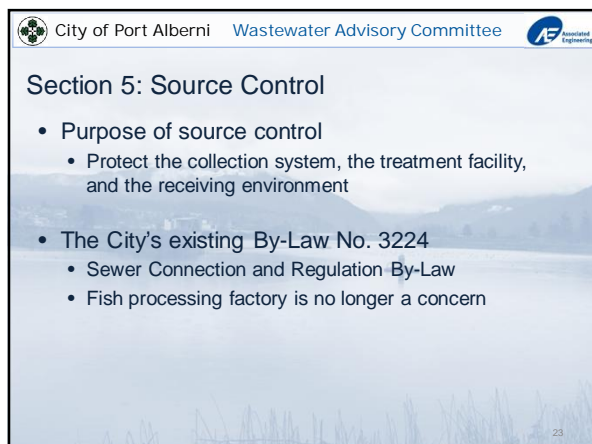
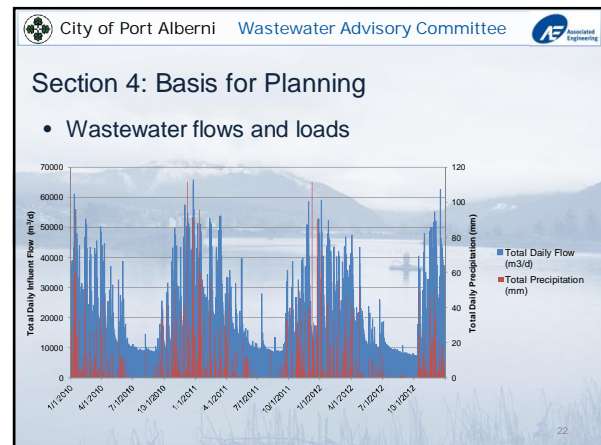
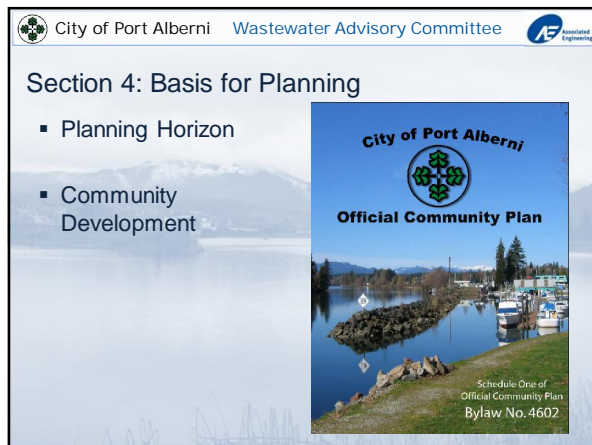
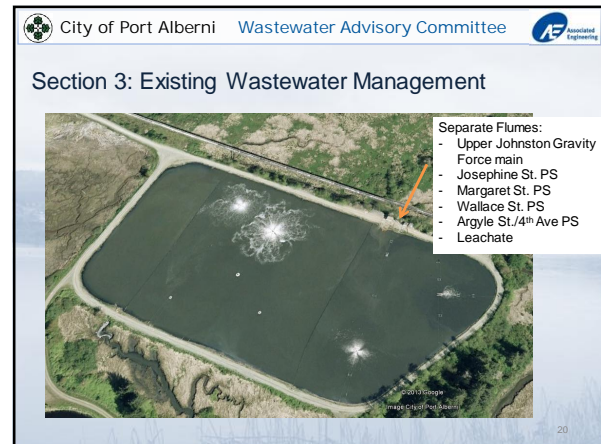
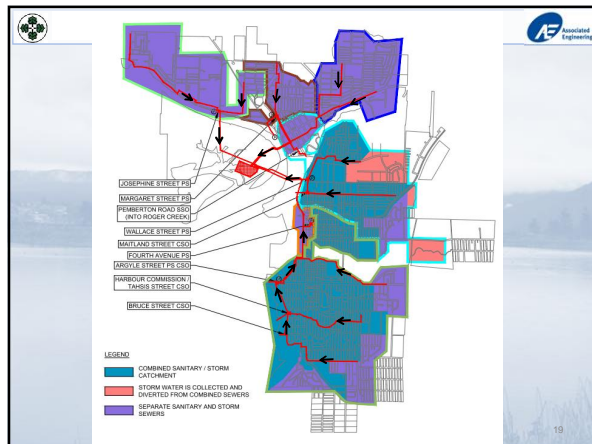
- Engineering planning document meant to provide direction
- Consensus required with community stakeholders, First Nations, and the general public

Stage 1
Identification of key wastewater management issues

Stage 2
Evaluation and selection of the preferred liquid waste management strategy

Stage 3
Implementation of the preferred wastewater management strategy





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Section 7: Wastewater Treatment

- Effluent quality requirements
 - BOD, TSS, Ammonia
- Treatment process configuration
- Disinfection
- Cost estimates

25

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Section 8: Combined Sewer Overflows


- Upgrades to date
 - Wallace Pump Station (2001): \$0.34 Million
 - North Port Sewer Abatement Project (2006): \$2.3 Million
 - Argyle St. Pump Station (2009): \$1.2 Million
 - Additional upgrades include new storm drainage installations and sanitary and storm water upgrades: \$1.85 Million
- Planned Upgrades
 - Continued separation of combined sewer system

26

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Section 9: Sustainability and Resource Recovery

- Biosolids production and reuse
- Effluent reuse
- Heat recovery





27

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Section 10: Urban Stormwater Management

- The City had a trial for a rainwater harvesting program
- The City is in favour of low impact developments
 - Green roofing
 - Permeable pavement

28

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Section 11: Public and Agency Consultation

- Wastewater Advisory Committee (WAC)
- First Nations Consultation
- Ministry of the Environment (MOE) – Advisory role
- Future public consultation
 - Open house
 - Mail outs
 - Web-based communications

29

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Section 12: Summary and Next Steps



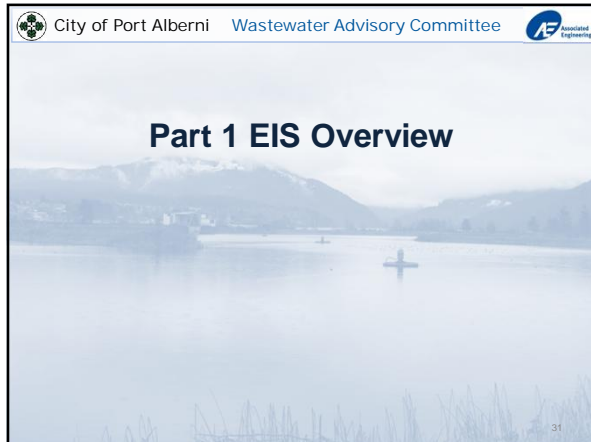
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graph LR
    A[Stage 1  
Identification of key  
wastewater management  
issues] --> B[Stage 2  
Evaluation and selection of  
the preferred liquid waste  
management strategy]
    B --> C[Stage 3  
Implementation of the preferred  
wastewater management  
strategy]
    
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30

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Part 1 EIS Overview

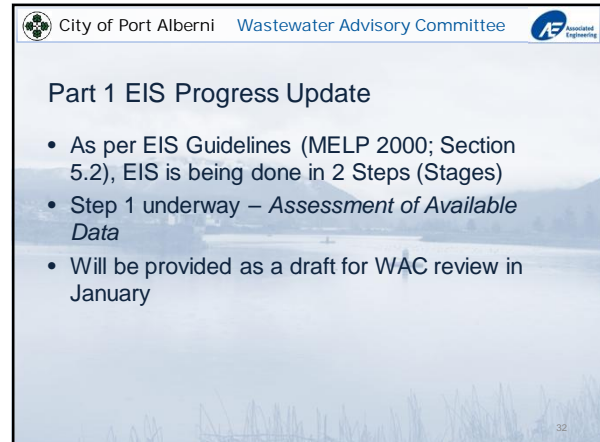


31

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Part 1 EIS Progress Update

- As per EIS Guidelines (MELP 2000; Section 5.2), EIS is being done in 2 Steps (Stages)
- Step 1 underway – *Assessment of Available Data*
- Will be provided as a draft for WAC review in January

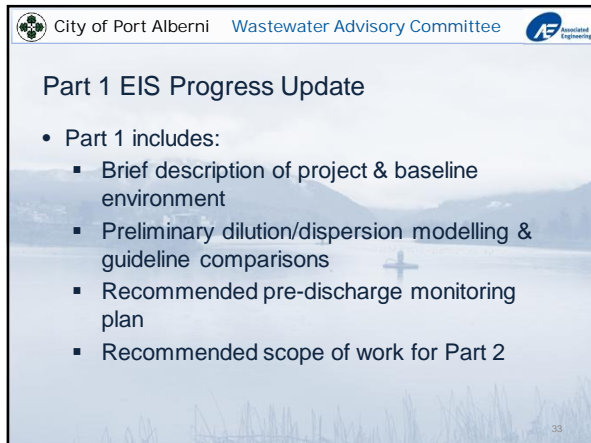


32

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Part 1 EIS Progress Update

- Part 1 includes:
 - Brief description of project & baseline environment
 - Preliminary dilution/dispersion modelling & guideline comparisons
 - Recommended pre-discharge monitoring plan
 - Recommended scope of work for Part 2

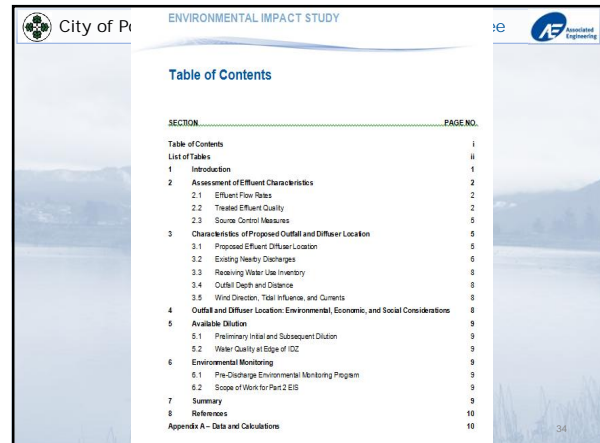


33

City of Port Alberni ENVIRONMENTAL IMPACT STUDY

Table of Contents

SECTION	PAGE NO.
Table of Contents	i
List of Tables	ii
1 Introduction	1
2 Assessment of Effluent Characteristics	2
2.1 Effluent Flow Rates	2
2.2 Treated Effluent Quality	2
2.3 Source Control Measures	5
3 Characteristics of Proposed Outfall and Diffuser Location	5
3.1 Proposed Effluent Diffuser Location	5
3.2 Existing Nearby Challenges	6
3.3 Receiving Water Use Inventory	8
3.4 Outfall Depth and Distance	8
3.5 Wind Direction, Tidal Influence, and Currents	8
4 Outfall and Diffuser Location: Environmental, Economic, and Social Considerations	8
5 Available Dilution	9
5.1 Preliminary Initial and Subsequent Dilution	9
5.2 Water Quality at Edge of ICD	9
6 Environmental Monitoring	9
6.1 Pre-Discharge Environmental Monitoring Program	9
6.2 Scope of Work for Part 2 EIS	9
7 Summary	9
8 References	10
Appendix A – Data and Calculations	10

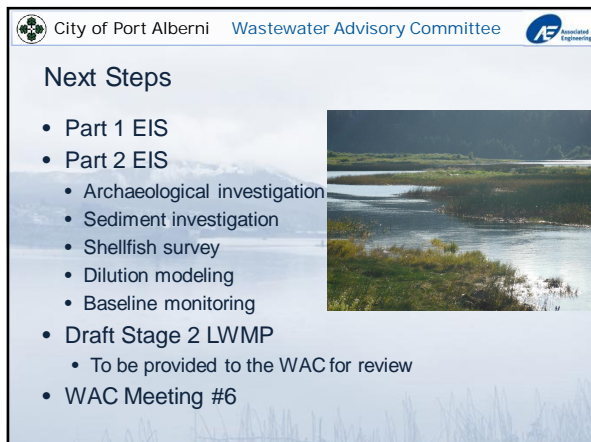


34

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Next Steps

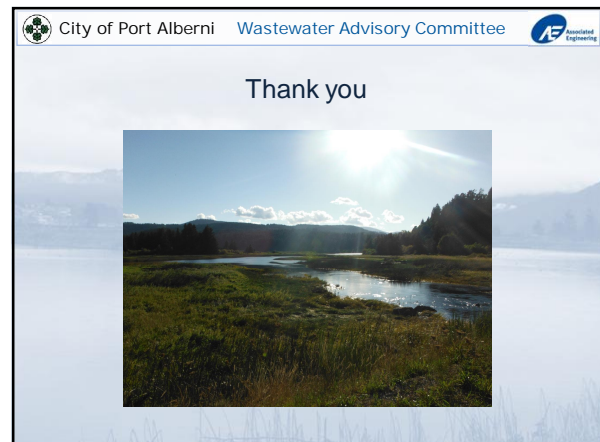
- Part 1 EIS
- Part 2 EIS
 - Archaeological investigation
 - Sediment investigation
 - Shellfish survey
 - Dilution modeling
 - Baseline monitoring
- Draft Stage 2 LWMP
 - To be provided to the WAC for review
- WAC Meeting #6



35

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Thank you



36