ANIAK

PRELIMINARY ENGINEERING REPORTS: 65% PRESENTATION

CITY COUNCIL MEETING

FEBRUARY 18, 2026

CRW ENGINEERING GROUP

Laurie Hulse, PE

907-562-3252

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
STATE OF ALASKA

Marc Cambra

907- 269-7525

INTRODUCTIONS

- Marc Cambra (VSW)
- James Robinson (VSW)
- Laurie Hulse (CRW)

PROJECT STATUS

- Project Kickoff and Field Investigation– July/August 2025 - Completed
- Alternatives Memo and Community Resolution of Support – October 2025 -Completed
- First Service Water 65% PER - Submitted to Review Committee December 31, 2025
- Wastewater Treatment Upgrades 65% PER - Submitted to Review Committee February 9, 2026
- 65% PER Presentation - WE ARE HERE
    - Community meeting with CRW and VSW to discuss alternatives, layouts, concept design, and answer questions.
- NEXT – Selection of a preferred alternative for each PER via Community Resolution
- 95% PERs preparation
- YKHC Concurrence with 95% PERs
- VSW seeks funding for Design and Construction

CRW ENGINEERING GROUP

DEPARTMENT OF ENVIRONMENTAL CONSERVATION · STATE OF ALASKA

FIRST SERVICE WATER PER

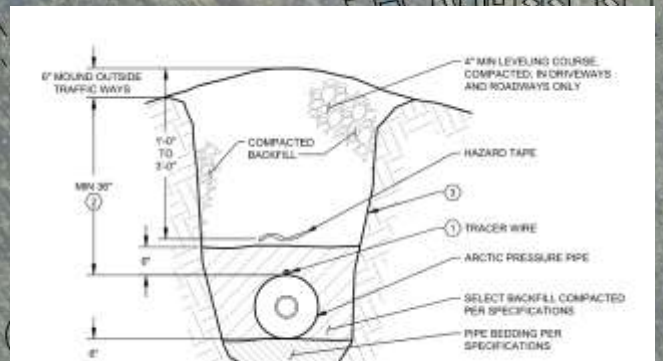
- Purpose: Improve water access and water quality for all residents
- Existing System: Individual groundwater wells and laundromat self-haul
- Aniak features:
  - Excellent groundwater quantity
  - Existing individual wells
    - Some wells have unpalatable water
    - Older wells are 35-45 ft deep (shallow and possibly influenced by river stage)
  - Individual responsibility for residential water
    - Well maintenance costs
    - Hauling water is onerous for some residents
    - No water utility fees
  - Tanker truck filling capacity is limited to the fire station well pump

FIRST SERVICE WATER PER ALTERNATIVES

- Alt 1: Community Piped Water System
- Alt 2: New Supplemental Community Well and Watering Point
- Alt 3: Enhancement / Replacement of Deficient Wells
- Alt 4: Both Alt 2 & Alt 3
- Alt 5: Do Nothing

ALT 1: COMMUNITY PIPED WATER SYSTEM

KUSKOKWIM RIVER
PROPOSED WATER STORAGE TANK
PROPOSED WATER TREATMENT PLANT
WATER MAIN LOOP A
CITY OFFICE
ANIAK PUBLIC LIBRARY
AIRPORT
ANIAK TRIBAL COUNCIL OFFICE
ANIAK SCHOOL
LAUNDROMAT AND PUBLIC WATERING POINT
WATER MAIN LOOP B
ANIAK SLOUGH
CITY SHOP
PROPOSED WATER SYSTEM BOOSTER BUILDING
WATER MAIN LOOP C



Advantages:

- All existing and future homes would have potable, palatable water
- Homeowners not responsible for well upkeep
- Tanker truck fill available in more locations

Disadvantages:

- Higher cost
- City may struggle with sustaining system

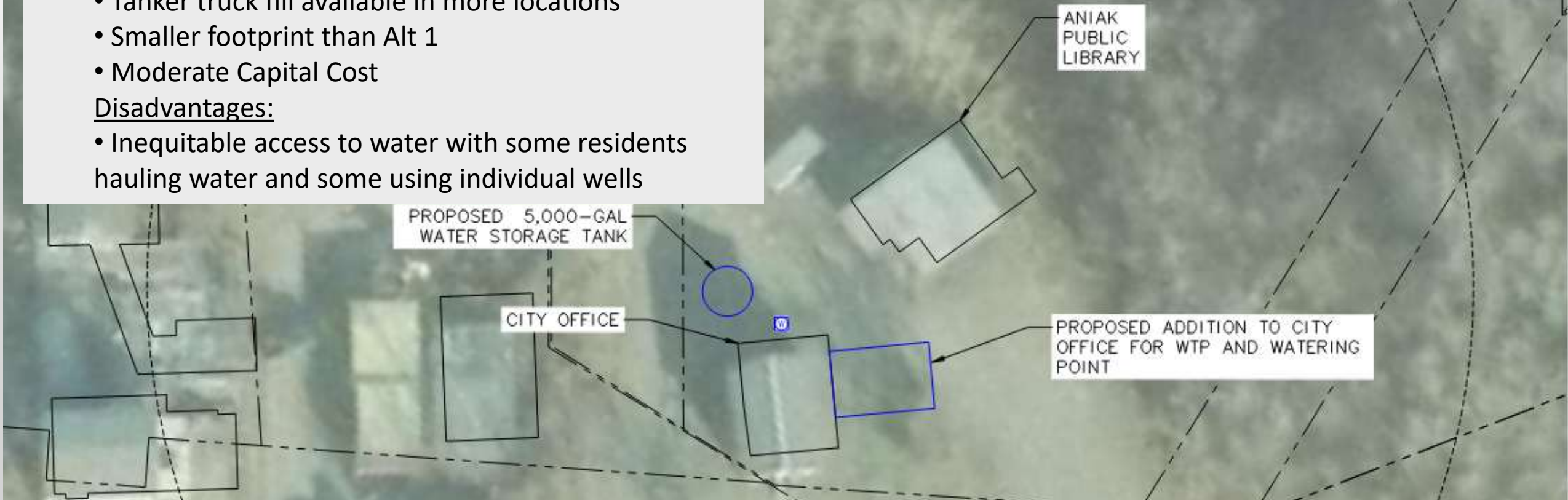
ALT 2: SUPPLEMENTAL COMMUNITY WELL AND WATERING POINT

Advantages:

- Residents who haul water would have more efficient access with two watering points in town
- Tanker truck fill available in more locations
- Smaller footprint than Alt 1
- Moderate Capital Cost

Disadvantages:

- Inequitable access to water with some residents hauling water and some using individual wells



ALT 3: REPLACEMENT / ENHANCEMENT OF DEFICIENT WELLS

House to House Survey ID	Owner/Occupant	Noted Deficiency	Water Used for Consumption
56	Donald Morgan	High Iron and Calcium	Yes
101	Ben Morgan and Brenda Focaro	Utilities need minor repairs	Yes
116	Maureen Kameroff	High Iron / Rusty water	Yes
153	Jeremy	Pressure tank does not keep pressure	Yes
185	Olga Peterson	Low water pressure	Yes
188	Annie Michaelson	Low water pressure	Yes
193	Barbara Simeon	Well non-functional	No
199	Bertha Pasamika	Rusty water, leaking glycol	No
203	Erica Kameroff	Well non-functional	No
222	Kuspuk SD	Rusty water	No
276	Phillip Simeon	Well non-functional	No
312	Kenny Nick	Well pump not funtioning well	Yes
314	Travis	Water only works in summer	Yes
500	Roger Morgan	Water system non-functional	No
501	Laura Crane	Water system non-functional	No
503	Aniak Tribal Council (rented to Troopers)	High Iron / Rusty water	No

Advantages:

- Palatable water provided in every home
- Lowest capital cost
- No need for City to establish a water utility

Disadvantages:

- Homeowners responsible for all maintenance
- Purchase of consumable water treatment products for some homeowners is an inequitable burden
- Does not address tanker truck filling need

ALT 4: BOTH ALT 2 AND ALT 3

Advantages:

- Palatable and reliable water provided in every home
- Tanker truck fill available on both sides of the community
- Smaller footprint than Alt 1
- Moderate Capital Cost
- Shared mobilization for drilling community and individual wells
- Managerial org structure would be less complicated than Alt 1

Disadvantages:

- Future homes would need to install individual wells

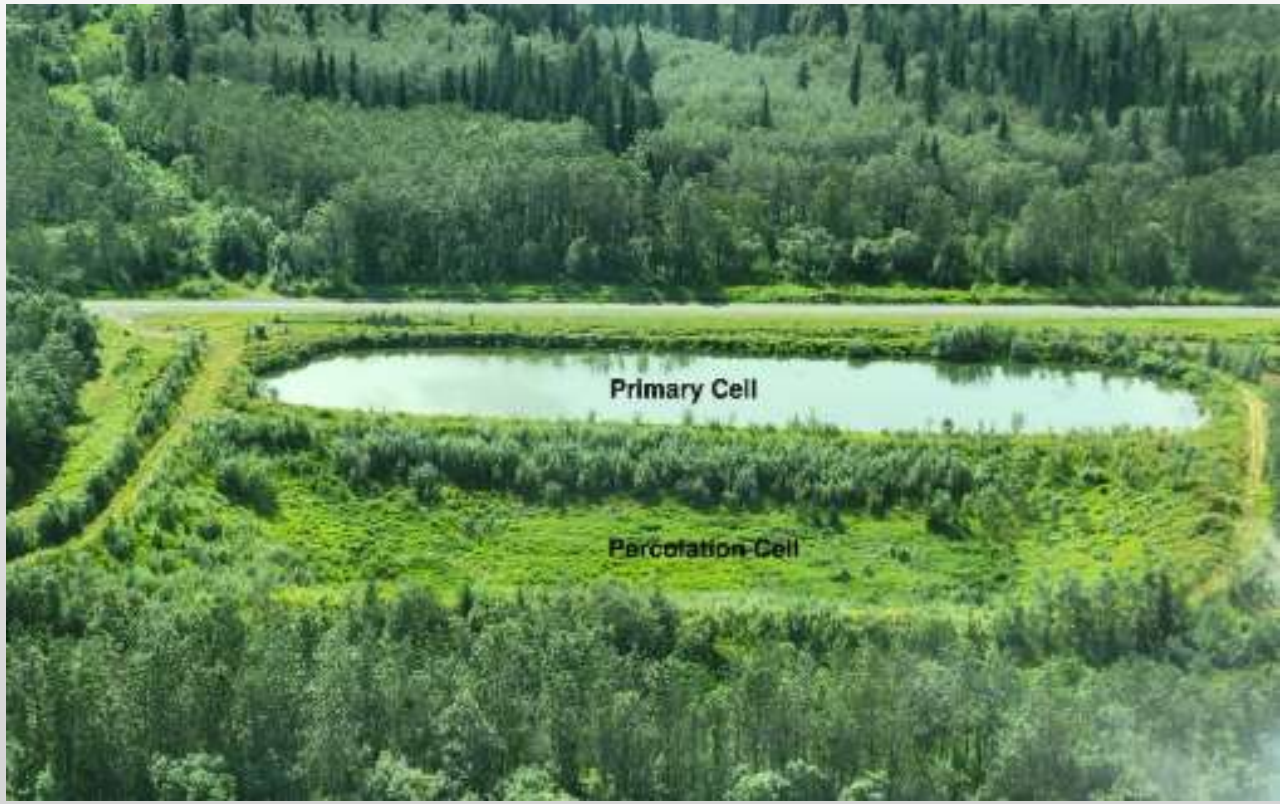
COST COMPARISONS

Alternative	Estimated Capital Cost	O&M Cost	Households Served	Additional Utility Cost/ Month
1 - Community Piped Water System	$112M	$ 179,500	140	$ 108
2 - New Supplemental Community Well and Watering Point	$3.8M	$ 37,600	140	$ 20
3 - Enhancement / Replacement for Deficient Wells	$2.7M	$ -	16	$ -
4 - Both Alternative 2 and Alternative 3	$6.3M	$ 37,600	140	$ 20
5 - Do Nothing				

WATER ALTERNATIVES DISCUSSION

WASTEWATER TREATMENT UPGRADES PER

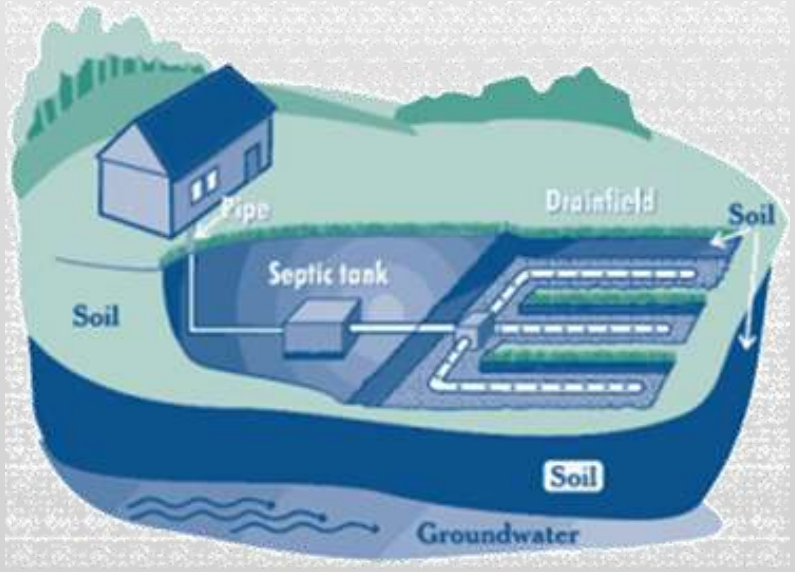
- Purpose: Upgrade wastewater treatment and disposal system for all residents
- Existing System:
  - City-wide buried piped collection system, lift stations, sewage lagoon
  - A few homes have onsite systems
- Aniak features:
  - Long history of success with buried piped system
  - Functioning lift stations, but some security and power problems
  - Lagoon system allows wastewater to infiltrate to groundwater (incomplete treatment)
  - Lagoon system is on airport property



WASTEWATER UPGRADES PER ALTERNATIVES

- Alt 1: Construct New Primary Wastewater Treatment Lagoon Cell, Redevelop Existing Lagoon Cells as Percolation Cells, and Provide Backup Power Generation at Existing Lift Stations
- Alt 2: Construct New Wastewater Treatment Lagoon System (Primary Treatment Cell Followed by Percolation Cell) and Provide Backup Power Generation at Existing Lift Stations
- Alt 3: Construct New Two Cell, Facultative Wastewater Treatment Lagoon System with Seasonal Discharge to River and Provide Backup Power Generation at Existing Lift Stations
- Alt 4: Do Nothing

Alternatives 1, 2, and 3 will also include new exterior doors and a backup power supply at the six lift stations, as well as installation of onsite septic systems at three homes across the Slough.



ALTERNATIVE 1:

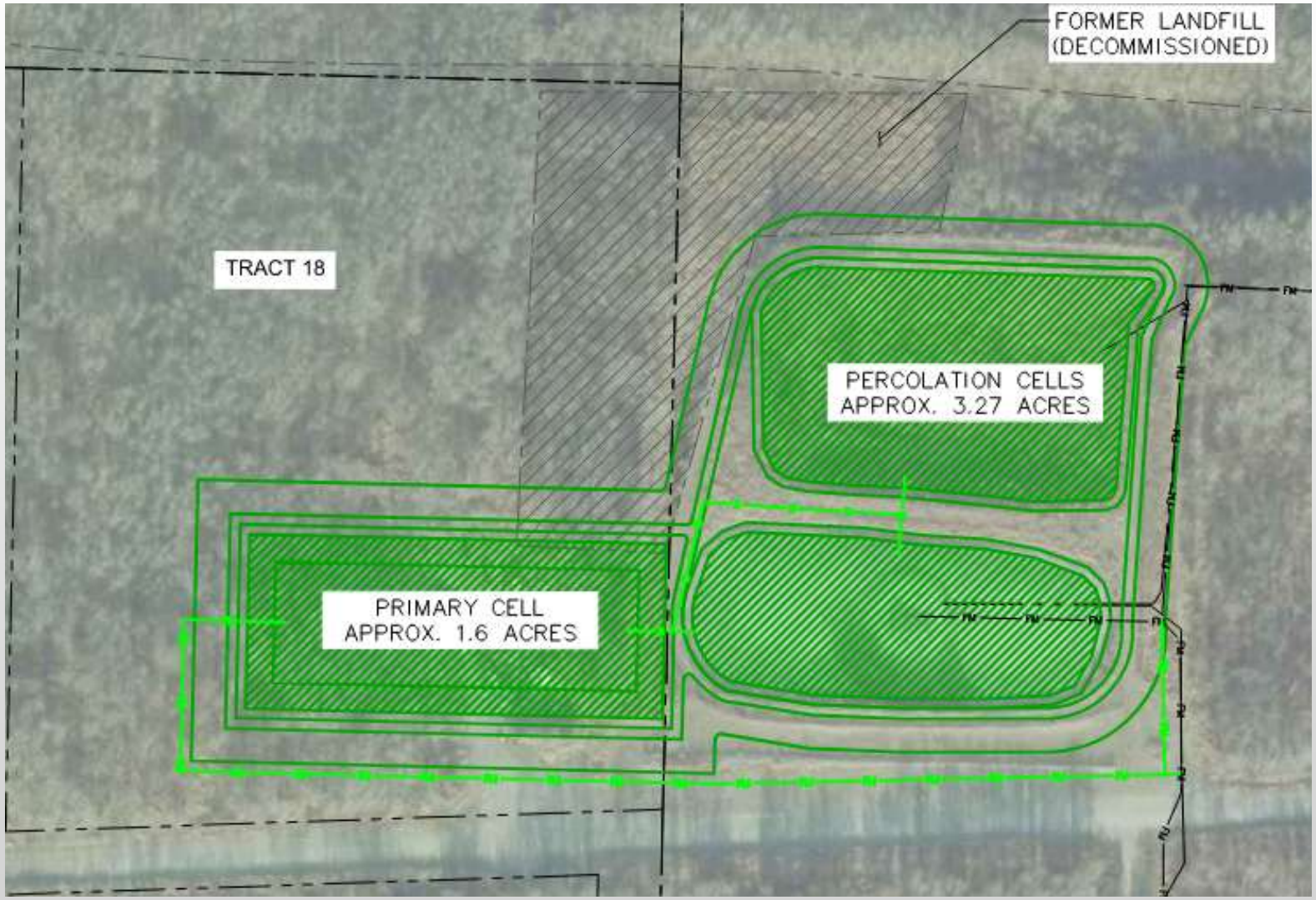
- New lined primary treatment cell
- Redevelop existing cells into percolation cells

Advantages:

- Lowest cost
- Simple and familiar operation
- Further from river than Alt 2 or Alt 3
- Reutilizes lagoon site

Disadvantages:

- City would continue to use airport property



ALTERNATIVE 2:

- New lined primary treatment cell and new percolation cell
- Decommission existing lagoon

Advantages:

- Lower cost than Alt 3
- Simple and familiar operation
- All improvements are on City land

Disadvantages:

- Higher cost than Alt 1
- Percolation cell would be closer to the river than in Alt 1
- Requires closeout of existing lagoon

ALTERNATIVE 3:

- New two-cell lined facultative lagoon system
- Seasonal discharge to river
- Decommission existing lagoon

Advantages:

- All improvements are on City land

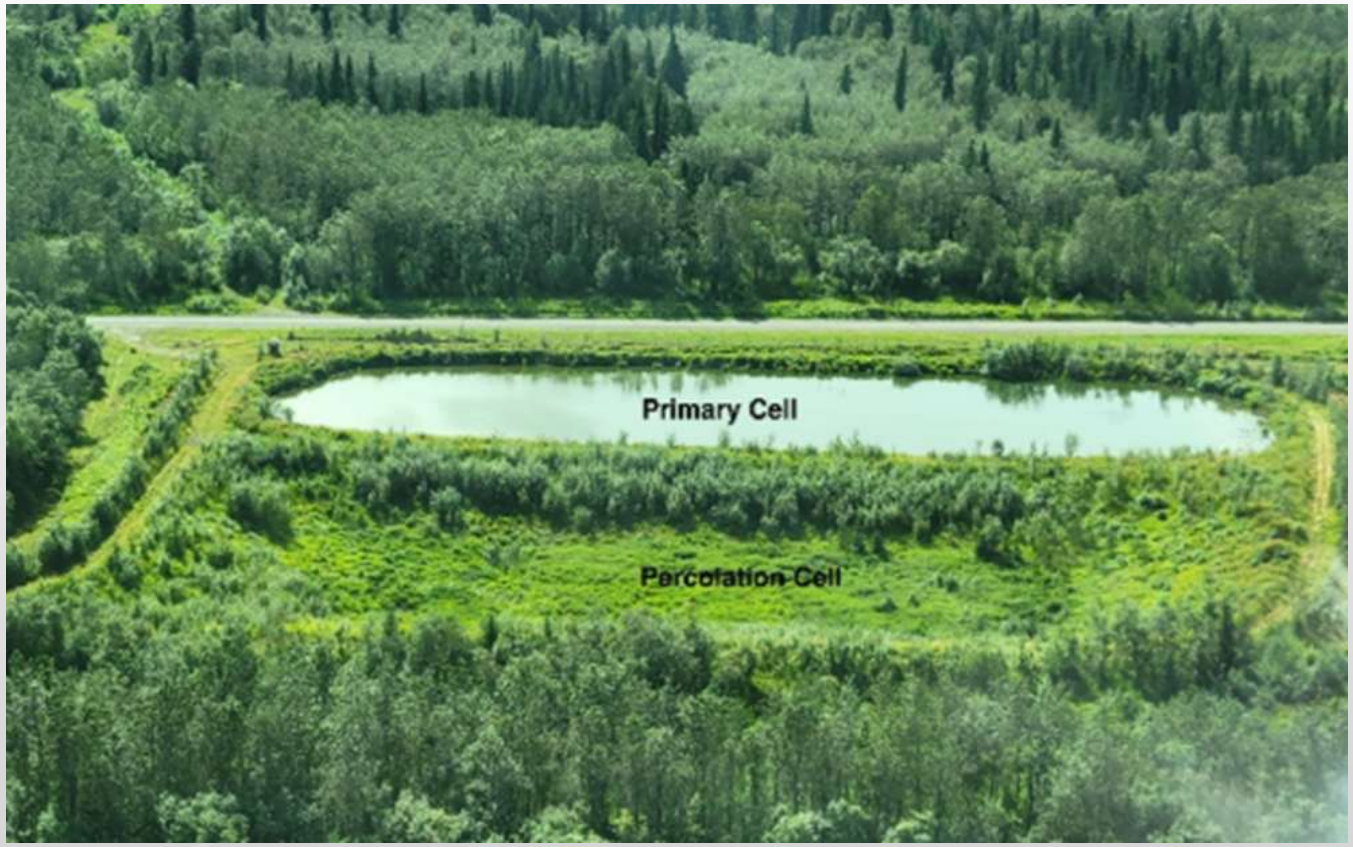
Disadvantages:

- Close to river (erosion and flood risk)
- Highest cost
- Annual discharge operations
- Requires closeout of existing lagoon

COST COMPARISONS

Alternative	Estimated Capital Cost	Additional O&M Cost	Additional Monthly Utility Fee
Alternative 1 - Construct New Primary Wastewater Treatment Lagoon Cell, Redevelop Existing Lagoon Cells as Percolation Cells, and Provide Backup Power Generation at Existing Lift Stations	$7.9M	$ -	$ -
Alternative 2 - Construct New Wastewater Treatment Lagoon System (Primary Treatment Cell Followed by Percolation Cell) and Provide Backup Power Generation at Existing Lift Stations	$10.5M	$ -	$ -
Alternative 3 - Construct New Wastewater Treatment Lagoon System with Seasonal Discharge to River and Provide Backup Power Generation at Existing Lift Stations	$18.0M	$ 7,615	$ 4.15
Alternative 4 – Do Nothing			

WASTEWATER ALTERNATIVES DISCUSSION



NEXT STEPS

- Community Resolution Selecting an Alternative for each PER (by March 2026)
- 95% PERs (April 2026)
- VSW applies for CIP funding grant (grant window open March 23-April 24, 2026)
- PER Completion (June 2026)

QUESTIONS?
COMMENTS?