

July 9, 2025

Process Water Intake Location Assessment For Information

PURPOSE

The purpose of the Process Water Intake Location Assessment is to evaluate and compare multiple potential sites for locating a water intake system. This assessment helps identify the most suitable location based on a set of predefined criteria that are critical to the success, feasibility, and efficiency of the project.

ANALYSIS

Intake Location Assessment Criteria

Parameter	Current	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
River access	4	4	1	4	5	3	4
Construction Ease	2	3	3	3	5	2	4
Road Access	2	4	3	3	5	2	4
Pipeline Crossings	3	1	4	1	3	3	3
Cost	2	3	2	3	5	2	4
Proximity to DIZ	1	5	3	5	5	5	5
Regulatory Process	4	2	2	2	5	2	2
Total Score	18	22	18	21	33	19	26
Rank	6	3	6	4	 1	5	 2

Scoring: 1 = Lowest, 5 = Highest

Location Assessment Criteria

- **River access:** Refers to the ease and proximity of accessing a river from the site. Important for water intake, site access, and environmental considerations.
- **Construction Ease:** Measures how straightforward it is to build on the site, considering terrain, soil stability, and existing infrastructure.
- **Road Access:** Evaluates the quality and availability of roads leading to the site, impacting site access efficiency.
- **Pipeline Crossings:** Assesses the number and complexity of existing pipeline crossings required, affecting alignment, risk and costs.
- **Cost:** Represents the estimated financial investment required for development, including construction and operational costs.
- **Proximity to DIZ:** Indicates how close the site is to the Designated Industrial Zone, influencing logistics and zoning compliance etc.
- **Regulatory process:** Reflects the expected complexity and duration of obtaining necessary permits and approvals.

RECOMMENDATION

- Option 4 is recommended as the top-ranked intake location based on the assessment criteria. It scores highly across all key areas such as river access, construction ease, and proximity to the Designated Industrial Zone (DIZ), making it a desirable location for the County's future Process Water Intake.
- All options will be analyzed further through the detailed engineering component of the project.