



Hilcorp Alaska, LLC

**Kathryn Kaufman**  
Liberty Development Permitting  
Lead

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March 4, 2016

Lauren Boldrick  
Bureau of Ocean Energy Management  
Alaska OCS Region  
3801 Centerpoint Drive, Suite #500  
Anchorage, Alaska 99503-5823

**RE: Hilcorp Liberty Development and Production Plan – Report Requests**

Dear Ms. Boldrick,

Hilcorp Alaska, LLC (HAK) submits the enclosed documents in response to the Bureau of Energy Management's (BOEM's) request for copies of documents mentioned in HAK's Liberty Development and Production Plan (DPP) for OCS Leases Y-1650 and Y-1585. Enclosed please find the following documents:

- Vaudrey and Associates and Coastal Frontiers Corporation. 2013. *Liberty Development Design Basis Ice Criteria Concept Select Phase*. July 2013. Anchorage, Alaska.
- Kad Mine Site Plans 2014-12-22.pdf
- Liberty Kad Material Source - DRAFT 21Nov13 full report.pdf
- Duck Island Mine Site Expansion Memo.pdf

Report Summary

The Vaudrey et al 2013 report "*Liberty Development Design Basis Ice Criteria Concept Select Phase*" was prepared to analyze and develop the design basis ice criteria for preliminary engineering of the Liberty Development prior to final design and siting. At the time this report was completed, the project team was considering the construction of two islands, a subsea pipeline from the proposed Liberty Development and Production Island (LDPI) west to a shore crossing location at the Satellite Development Island (SDI)/Endicott, and an expansion of SDI. As stated within the DPP, HAK is proposing a subsea pipeline from LDPI to a southern shore crossing location. HAK used the Vaudrey report and analysis to assist with determining the LDPI design basis.

The "Kad Mine Site Plans 2014-12-22.pdf" summarizes HAK's mine site plan for the proposed development of the Liberty gravel source near the Kadleroshilik (Kad) River. The document titled "Liberty Kad Material Source - DRAFT 21Nov13 full report.pdf" summarizes the preliminary geological and hydrologic review of three potential material source areas near the Kad River. The final area identified as a potential gravel source for the Liberty Development, as identified within the DPP, is within a portion of the area titled The West Kad Area – Option 1 analyzed in the 2013 report.

The "Duck Island Mine Site Expansion Memo.pdf" summarizes available technical information regarding the existing Duck Island Mine Site and a brief analysis of the expansion of the site as a

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potential material source for the Liberty Development. This technical memo uses a volume of 600,000 cubic yards of material in its analyses of a potential expansion. In contrast, HAK estimates approximately 1,250,000 cubic yards of gravel will be needed to meet immediate and potential long-term needs for the Liberty Project. The Liberty mine site operation is planned for one season.

If you have any questions, please contact me at 907-777-8329 or by email at [kkaufman@hilcorp.com](mailto:kkaufman@hilcorp.com).

Sincerely,

A handwritten signature in black ink that reads "Kathryn Kaufman". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Kathryn Kaufman  
Liberty Development Permitting Lead

Attachments