

MEMORANDUM

CITY/BOROUGH OF JUNEAU

155 South Seward Street, Juneau, Alaska 99801

TO: Teri Camery, Planner
Community Development Department

DATE: May 11, 2007

FROM: Rorie Watt, Deputy Director
Engineering Department

RE: Lemon Creek Mining Application

ATTACHMENT 10

I have reviewed the RSH proposal to mine sand and gravel from Lemon Creek, and the applicant supplied hydrological report from HydraCon Engineering.

Additionally, I have reviewed my memorandum of 1/19/07, and Roger Healy's and Dale Pernula's letters of 1/30/07.

I find the hydrology report to be sufficient to address issues of concern to the general public and adjoining owners. The report shows that increased risk of flooding will not occur, and that headcutting or downcutting can be managed. The hydrologist makes recommendations that I support.

We have internally discussed whether the code requirement for a topographic survey is merited, and whether the survey work completed as part of the Lemon Creek Watershed Geomorphic Assessment and Sediment Management Alternatives Analysis (Inter-Fluve, 2004) is sufficient. I believe that the bathymetry and topography in that report is sufficient. The creek bed is a dynamic entity, resurveying would not provide a useful product.

The hydrology report finds that the mining will not adversely affect the flood hazard to adjoining properties, that the Glacier Highway bridge and its associated rip-rap channel hardening limit high water event flows, and control flooding within this area. The report finds that flooding hazard will be reduced by the proposed mining if the bridge hardening is modified.

From a hydrology standpoint, I have no problem recommending approval of this permit with the following added conditions:

Recommended Conditions:

1. By April 15th, one month before the commencement of each mining season, the applicant shall submit a mining plan, such plan shall include:
 - a. Estimation of material to be removed
 - b. Map of area to be worked (showing property lines)
 - c. Map showing proposed culverts, access roads, bank stabilizations, stream relocations and other proposed features
 - d. Such mining plan shall be processed by the Engineering Department as a grading permit



2. That prior to commencement of mining, the applicant be required to stake property lines and a line offset 10' from the property lines.
3. That prior to the commencement of mining that the applicant make video of the entire area and submit the video to the Engineering Department.
4. That the top of excavation slopes be prohibited within 10' of any banks or the property lines.
5. That the applicant directly hire, or pay permit inspection fees to provide for periodic inspection of the mining area by an appropriately licensed engineer and/or hydrologist.
6. That periodic inspections be made as determined by the engineer and/or hydrologist, sufficient to monitor the operation. Such periodic inspections should include visits during or after high rainfall events.
7. That inspection reports be submitted to the Engineering Department for each 10,000 cubic yards of material removed from the stream, and that those reports include the following information:
 - a. Volume of material removed
 - b. Map of area worked
 - c. Verification of compliance with mining plan
 - d. Report of bank destabilizations
 - e. Opinion whether bank/property line setbacks are adequately protecting adjacent properties
 - f. Bank protection/stabilization measures if merited
8. That an inspection report be submitted at the end of the mining season, such report including all items in above numbers 3 and 7, such report submitted within one month of the end of the mining season.