



State of Idaho

DEPARTMENT OF WATER RESOURCES

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John. Beal

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March 16, 1984

Mr. Gerald L. Martens
Edwards, Howard & Martens, Inc.
1139 Falls Ave. E., Suite B
Twin Falls, ID 83301

Dear Mr. Martens:

After consulting with my staff, I have concluded that Mr. Brockway's Impact Evaluation and Monitoring Program for the Lower Snake Plain Aquifer Recharge Project would be acceptable with the following modifications:

1. A "Figure 1," as described in the text, must be included in the final plan. This figure must illustrate the location of the proposed monitoring well, in addition to the predicted limits of the recharge area. The Department will need to confirm the location of the proposed well prior to drilling.
2. The first two sample sets of canal water and background samples from the existing production wells selected for monitoring must be analyzed by an approved laboratory for the following parameters:

Dissolved Sodium
Dissolved Potassium
Dissolved Calcium
Dissolved Magnesium
Dissolved Carbonate (CO_3)
Dissolved Bicarbonate (HCO_3)
Dissolved Chloride
Dissolved Sulfate
Dissolved Fluoride
Dissolved Orthophosphate
Dissolved Nitrate, as Nitrogen
Total Kjeldahl Nitrogen
Dissolved Cadmium
Dissolved Copper
Total Nonfilterable Residue (Suspended Solids)
Turbidity
ph
Total Coliform Bacteria
Fecal Coliform Bacteria

The foregoing is a true and certified copy of the document on file at the Department of Water Resources.

Signed this 31st day of October, 2018.

Alley W. Beal

EXHIBIT

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In addition, the first two sample sets of canal water must be analyzed for organochloride and organophosphate insecticides, and chlorophenoxy herbicides by an approved laboratory.

The two sample sets of canal water should be collected no less than two days apart, and the results of analysis must be reviewed prior to inception of the recharge event.

Subsequent samples of recharge water and samples from the selected existing wells and the newly-constructed monitoring well(s), when and if water is present, shall be collected on a weekly basis and analyzed for turbidity, specific conductance, total coliform bacteria and fecal coliform bacteria. Additional analyses may be required on a basis of previous results.

3. The project monitoring well must be logged by a geologist or other qualified person during the drilling operation. Additional construction features will be based on the results of geologic and geophysical logs of the open hole. At this time, it appears the hole should be cased into the first basalt layer rather than to 160 ft. as proposed. Construction must be completed prior to inception of the first recharge event.
4. Weekly observation of the recharge facility must be conducted to determine a relative level of waterfowl use of the pond.
5. The final plan must include a figure detailing the specific locations of the existing wells selected for monitoring. Basic construction and operational features of the selected wells should also be included in the plan. The monitoring network should comprise at least three wells down-gradient and two wells up-gradient of the recharge area, and three wells situated between the recharge area and the City of Shoshone.
6. The plan or some additional document must make a commitment to the construction of an additional monitoring well located down-gradient from the recharge site prior to the inception of the spring recharge event in 1985.

Likewise, the Department must have a commitment from the district limiting the 1984 spring and fall recharge events to 30-days duration.

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The above conditions primarily refine the existing elements of the proposed evaluation and monitoring program. As you know, based upon monitoring data and future operations, the Department will be requiring additional monitoring wells in the next few years. If you or Mr. Brockway have any questions concerning these modifications, please contact John Beal or Bill Graham at your earliest convenience.

Sincerely,

Norman C. Young
Administrator

NCY:WGG:cjk

cc: Russ Renk, IDHW-DOE