



Edwards, Howard & Martens, Inc.

ENGINEERS / PLANNERS / SURVEYORS

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June 6, 1984

IN THE FIELDS OF:

PLANNING
SURVEYING
HIGHWAYS
WATER
SEWAGE
STRUCTURAL
SUBDIVISIONS
AIRPORTS
BRIDGES

Lower Snake River Aquifer Recharge District
P. O. Box 487
Hagerman, Idaho 83332

Attention: John LeMoyne

RECEIVED

OCT 18 1984

Dear Sir:

Department of Water Resources

The following is our summary of the aquifer recharge effort for the 1983 spring season. Also summarized is the monitoring and testing work accomplished.

Prior to April 18, 1984 - Completion of diversion structure and monitoring well. Minor test diversion at random times.

April 18, 1984 - Began discharge of water at estimated rate of 250 cfs.

April 19, 1984 - Terminated discharge to raise elevation of roadway to increase size of recharge area.

April 23, 1984 - Resumed discharge at varied rates (150 cfs - 350 cfs)

May 8, 1984 - Sampled canal water for insecticides, coliform, complete inorganic chemical contamination. Four private wells were sampled as background wells and tested for coliform analysis, chloride, PH, specific conductance and turbidity (see attached map for locations).

May 8, 1984 - First date cascading water was observed in monitor well. Water level at 181 feet below top of casing.

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.

Shelley W. Keen

EXHIBIT

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May 11, 1984 - Cascading water in monitoring well.
Water level 176.5 feet below top of casing. Monitor
sampled for coliform, chlorine, PH, specific
conductivity and turbidity.

May 15, 1984 - Cascading water in monitor well.
Water level at 176.5 feet from top. Sampled for
coliform.

May 15, 1984 - Terminated all discharge into recharge
area.

May 22, 1984 - Cascading water in monitor well.
Water level at 182 feet below top. Sampled for
coliform.

June 5, 1984 - Cascading water in monitor well.
Water level at 186 feet below top. Sampled for
coliform.

The sample of water taken for insecticides on May 8, 1984,
was destroyed in shipment. No follow-up sample was taken.

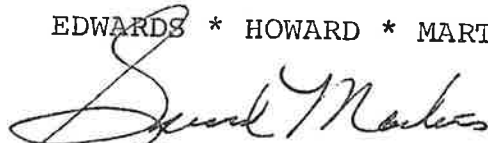
No further sampling or testing is planned unless I am
otherwise directed by the board.

Based on average flows, the total discharge during the
spring discharge was approximately 7000 acre feet.

There is one small ridge, approximately 10 feet wide and
80 feet long, that is restricting the size of the recharge area
and keeping the surface level higher than necessary. If
approximately two feet of this ridge, less than 100 yards of
material, was removed the recharge area would quickly double and
theoretically double the recharge capacity. The diversion
structure would accommodate the increase with no problems.
Following some initial problems with inadequate generator
capability, the structure worked well and satisfies Mr. Oneida of
the canal company. I think they have found the structure to be
a very convenient management tool.

Respectfully yours,

EDWARDS * HOWARD * MARTENS, INC.



Gerald L. Martens, P.E.

GLM/bn
cc: file