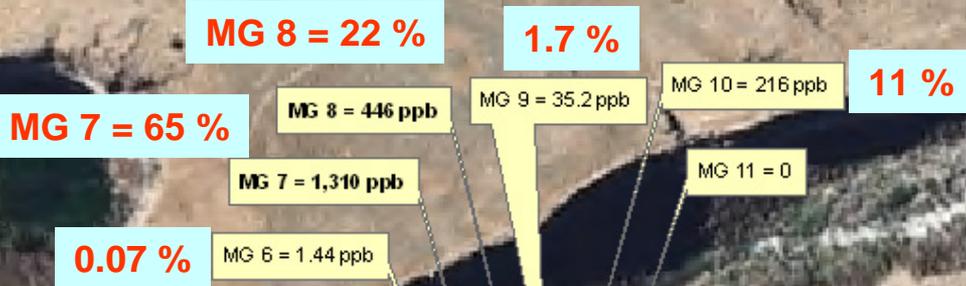


What was learned:

- Which spring has best hydraulic communication with the well.
- 87% of dye passed by MG 7&8.
- General azimuth of flow = 310° (almost due northwest)
- Injection method of tubing worked.
- Injection level in well worked.
- All dye moved out of the well by 3.5 days.
- No problems with park water supply and green water.
- Bacteria test was absent.
- 3.5 days of pump off was not a problem with park.
- Water sampling frequency was too long.
- Charcoal packets are good contingency planning.
- Site is accessible by foot.
- Number of sites seems acceptable.
- IPCo. Div. charcoal packet detected dye even with dilution of river water.
- Optimal location to place 'SCUFA' in-situ fluorometer with datalogger.
- Amount of dye needed.

Malad Gorge Tracer Test Charcoal packet concentrations of fluorescein dye (not water concentration)



IPCo. Div. = 70.7 ppb

0.2 %

MG 2 = 4.57 ppb

MG 3 = 0

MG 1 = 0

MG 4 = 0

MG 5 = 0

MG 6 = 1.44 ppb

MG 7 = 1,310 ppb

MG 8 = 446 ppb

MG 9 = 35.2 ppb

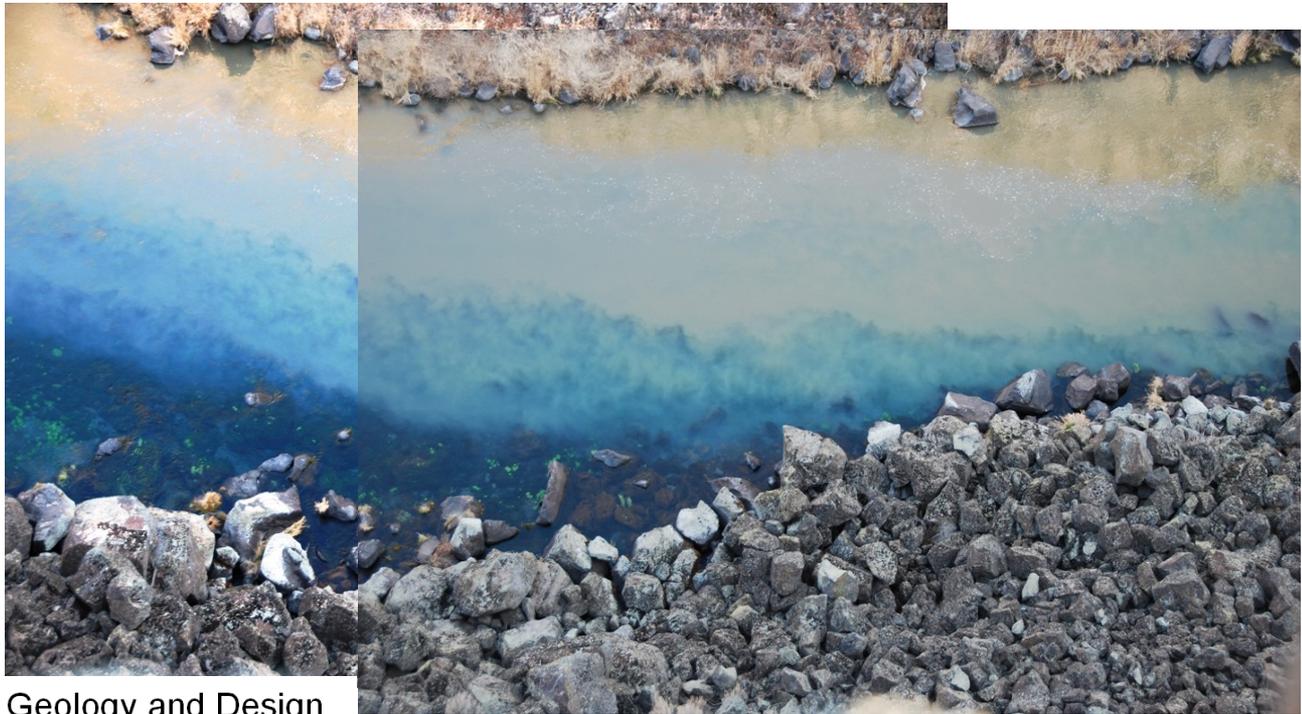
MG 10 = 216 ppb

MG 11 = 0

Park well

Dye injection well

Talus = about 18 % of the linear distance of 1,098 feet between well and MG-7



Malad St. Pk. Picnic Area Well Geology and Design

