

Gold King Mine Spill Update

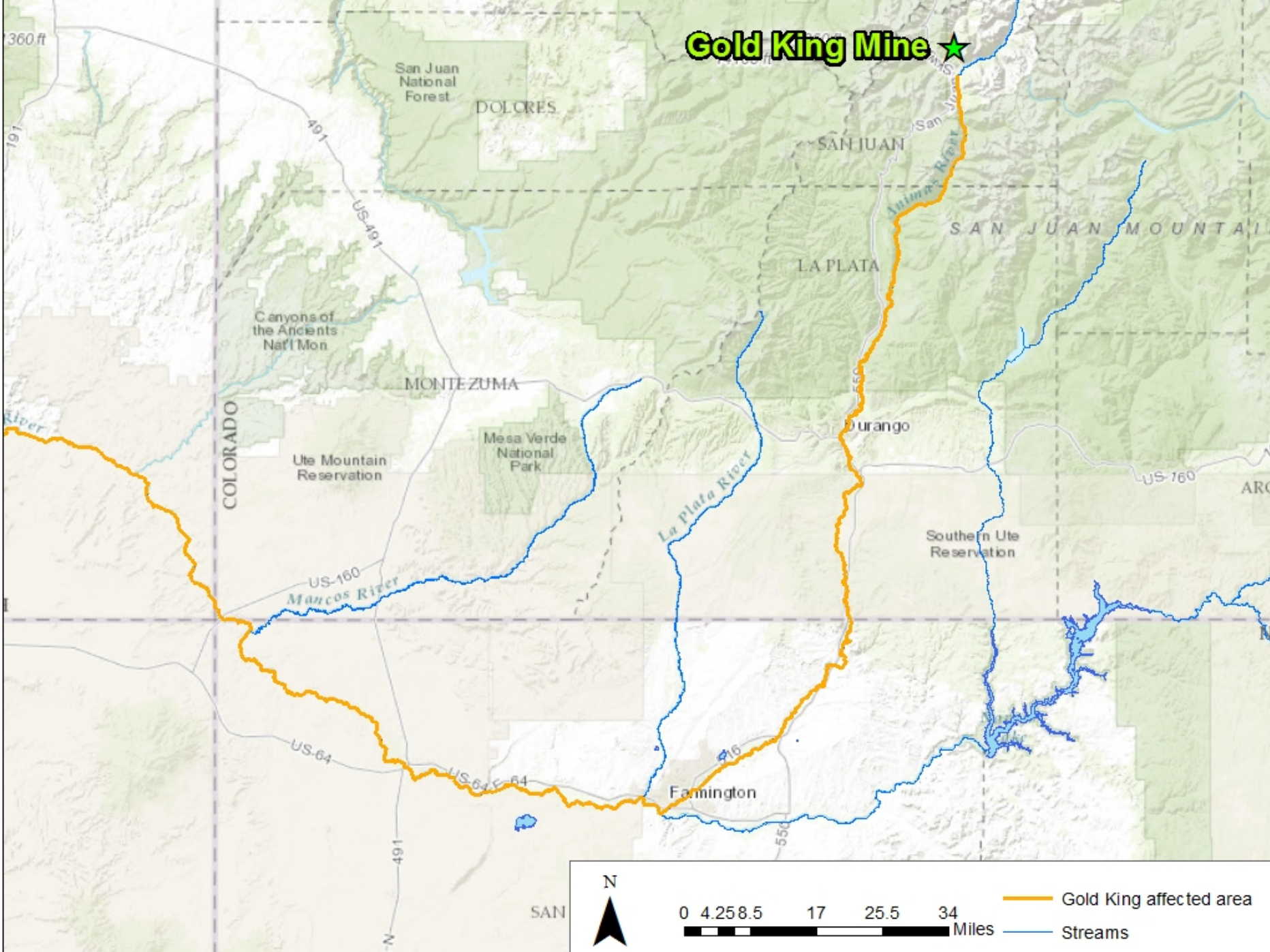


Presented by Eric Frey

Fisheries Division



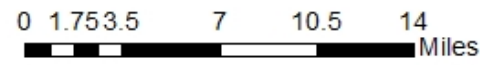
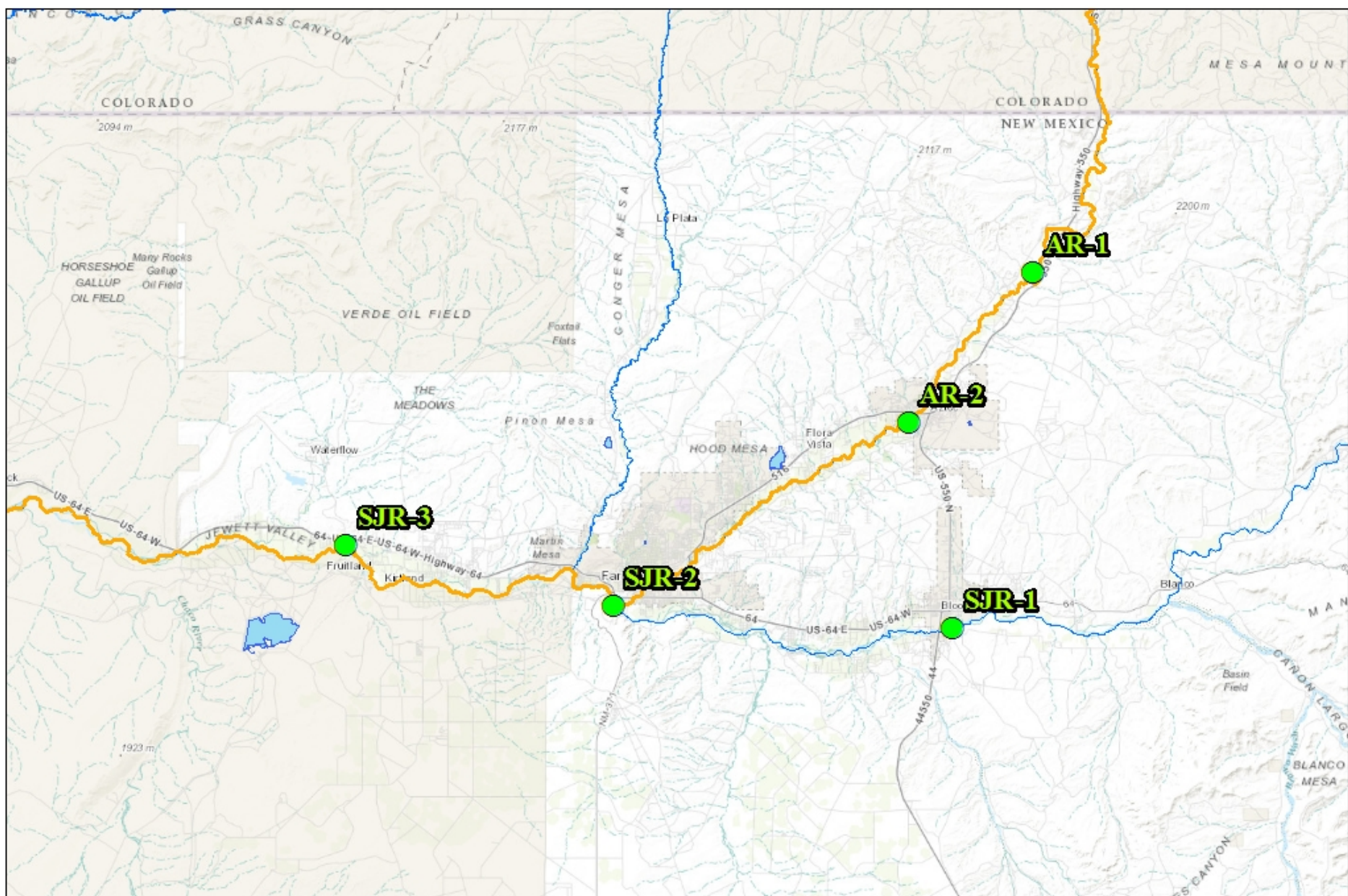
Gold King Mine ★






Fish and Macroinvertebrate Sampling

- 3 sampling events
 - Immediate post spill in August 2015
 - 6 months post spill in March 2016
 - 1 year post spill in August 2016
- 5 collection sites
- Collected muscle and liver tissue on fish
 - 131 fish in August 2015
 - 186 fish in March 2016
 - 196 fish in August 2016
- 7 fish species, different trophic levels
- Macroinvertebrates





-  Sample sites
-  Gold King affected area
-  Streams

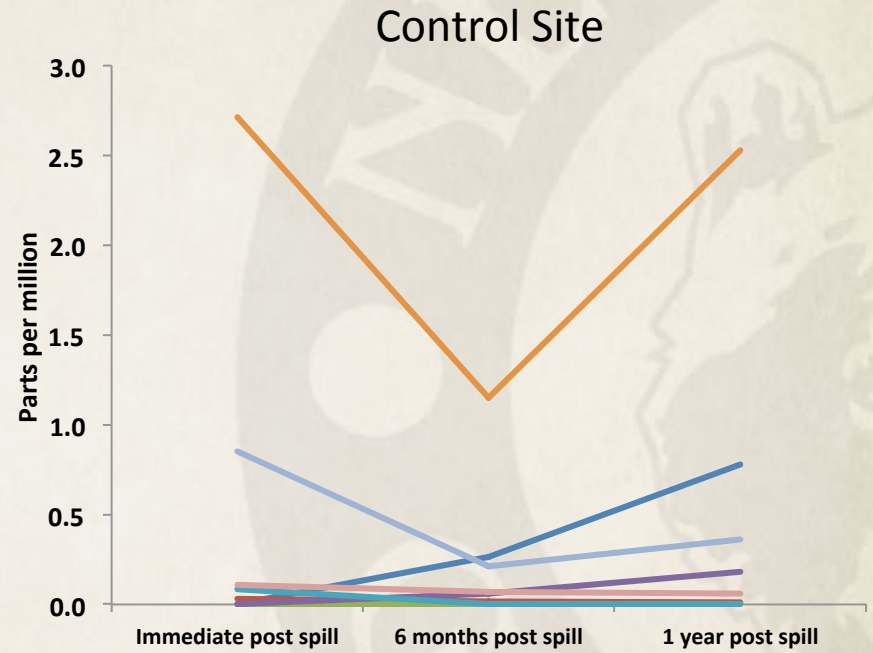
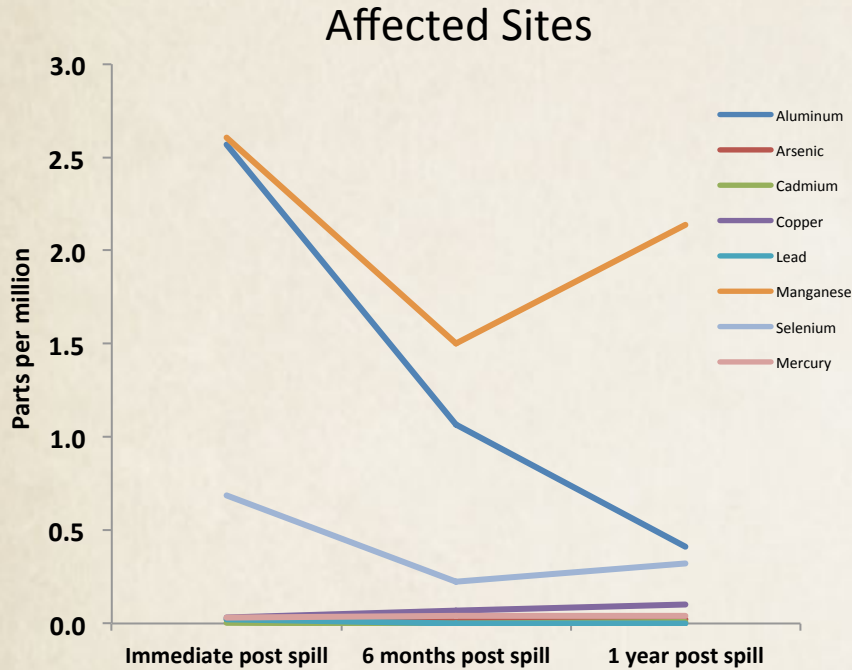
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Field
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Percentage of Samples with Detected Metals in Fish Muscle Tissue

	Immediate Post Spill	6 Month Post Spill	1 Year Post Spill
Affected Sites	41%	18%	16%
Control Site	47%	17%	17%



Average Heavy Metal Concentrations from Fish Muscle Tissue

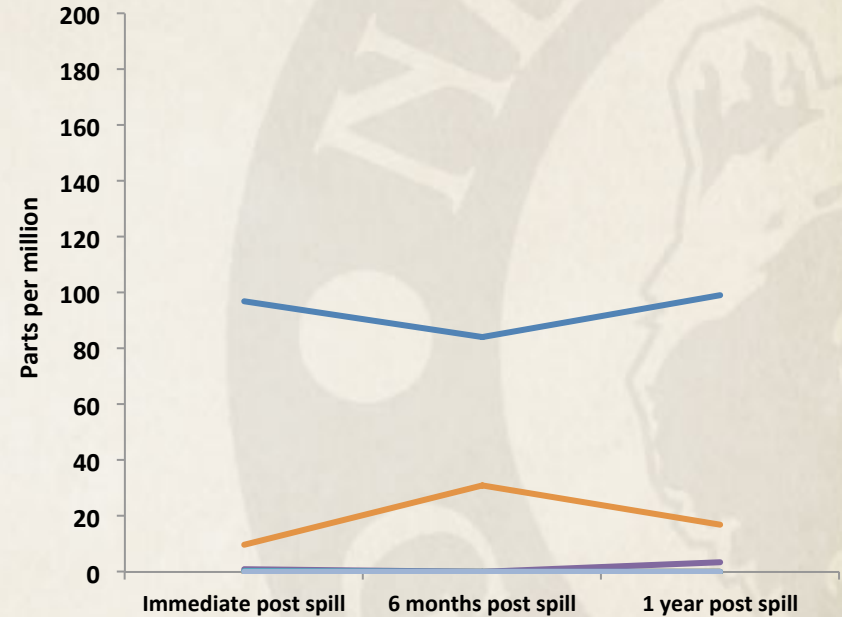


Average Heavy Metal Concentrations from Larval Mayflies

Affected Sites



Control Site



Conclusions to Date

- Heavy metals continue to be below public health risk for fish consumption
- Fish and macroinvertebrate populations and biodiversity continue to appear unaffected by spill
- Fish condition and health continue to appear unaffected by spill
- Overall metal concentrations in August 2016 are similar to August 2015



Ongoing Efforts

- Planning 2 year post spill sampling in August 2017
- Continue to work with NMED, DOH, and other stakeholders



QUESTIONS?

