



Technical Track Next Steps

SRRTTF Meeting

June 24, 2015



Pre-Work

- *Technical Work Group*
 - *Met June 3rd*
 - *LimnoTech Presentation on “High Level” Phase 3 scoping*
 - *Developed listing of potential next step projects*
 - *Performed pareto analysis to develop a priority for next step projects*



Brief Project Summaries

- *Upgradient Groundwater Investigations*
 - *Barker to Trent – “Kaiser Section” only*
 - *Install and monitor wells to identify contribution*
 - *Location based*
 - *Use based*
 - *Barker to Trent – “Non-Kaiser Section”*
 - *Install and monitor wells to identify contribution*
 - *Location based*
 - *Use based*



Brief Project Summaries

- *Dry Weather River Sampling*
 - *After Greene Street gage upgrade repeat 2014 river sampling*
 - *Barker, Trent, Greene, and Spokane stations*
- *River Gaging Stations*
 - *Operate Trent gage*
 - *Install and operate Nine Mile gage*



Brief Project Summaries

- *Stormwater Contribution Assessments*
 - *Retrospective Loading Analysis*
 - *Estimate contribution through analysis of existing data (concentration and river flow)*
 - *Wet Weather Sampling*
 - *Hangman Creek*
 - *City of Spokane Storm Discharge*

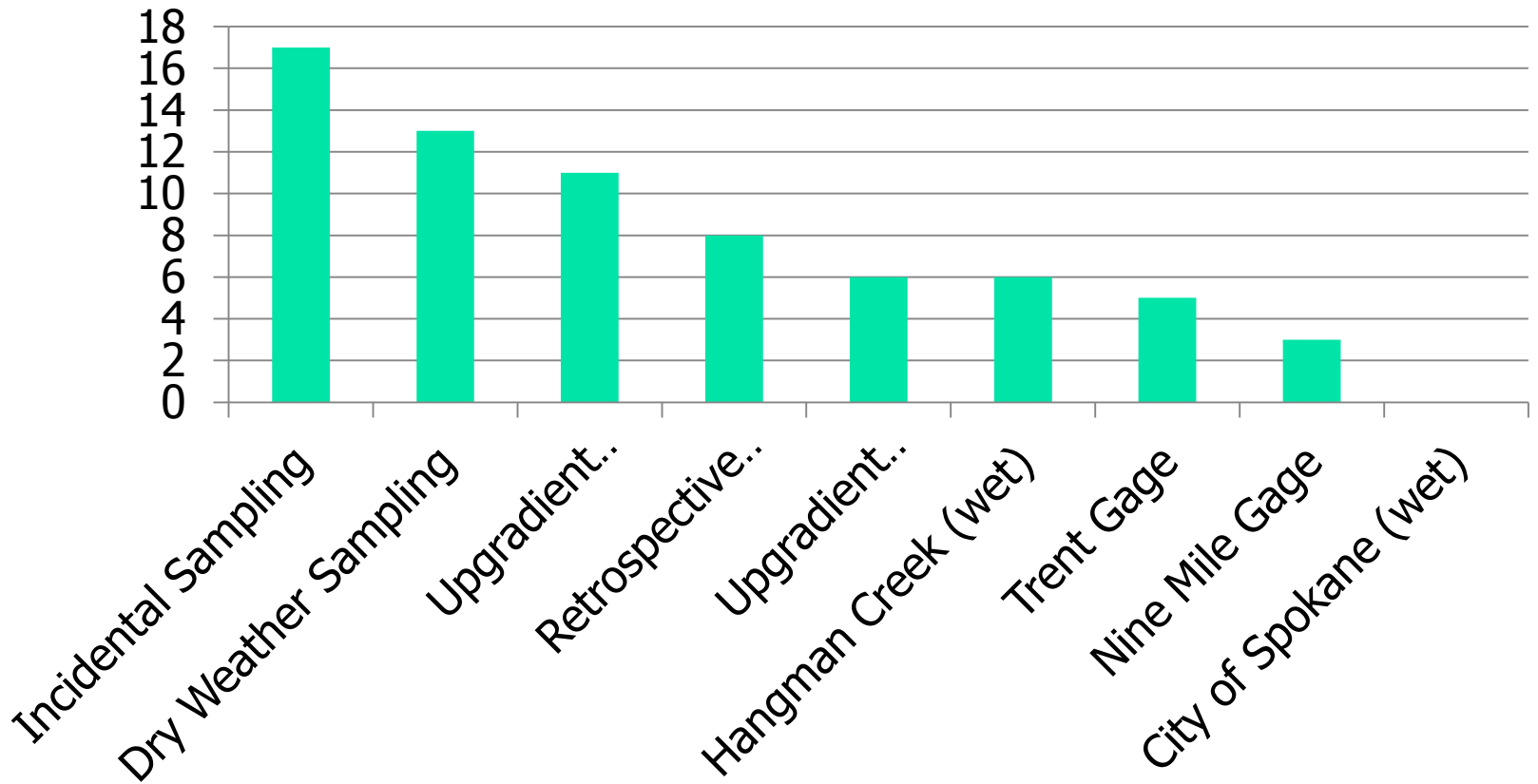


Brief Project Summaries

- *Incidental Sampling*
 - *Non-specific wet weather sampling to estimate loading*
 - *River sampling (Barker to Trent) to guide upgradient groundwater investigation*
 - *Indicator chemistry, temperature, flow measurements*



Pareto Analysis





Cost Estimates

Technical Task	One-Time	Annually
<i>Dry Weather Sampling</i>	\$65,000	
<i>Upgradient GW (K)</i>	\$70,000 to \$130,000	
<i>Upgradient GW (NK)</i>	\$55,000 to \$130,000	
<i>Retrospective Analysis</i>	\$7,500	
<i>Incidental Sampling</i>	?	
<i>Hangman Creek</i>	\$27,000	
<i>City of Spokane Storm</i>	\$14,000	
<i>Trent Gage</i>		\$20,000*
<i>Nine Mile Gage (Install)</i>	\$25,000	
<i>Nine Mile Gage (Operate)</i>		\$20,000



Cost Estimates

<i>LimnoTechTasks</i>	<i>One-Time</i>	<i>Monthly</i>
<i>Develop Monitoring Scopes</i>	\$5,000	
<i>Meeting Participation</i>		\$1,200
<i>Workshop Participation</i>	\$5,000	
<i>Update Dry Weather Mass Balances</i>	\$7,500	
<i>Assess Wet Weather Loads</i>	\$5,000	
<i>Assess Groundwater Loads</i>	\$7,500	
<i>Reporting</i>	\$5,000	
<i>Project Management</i>		\$400



Cost Estimates

Other Tasks

Ruckelshaus

High Volume Sampling "Proofing"

Workshop

Administrative Expenses

One-Time

\$65,000

\$10,000

Annually

\$72,500

\$5,000

Pareto Analysis With Costs

