KGS Annual Meeting Emerging Environmental Issues

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Emerging Issues – contaminants

- * Water Soluble Pharmaceuticals
- * Updated Exposure Data
- * Updated Risk Evaluations



Environmental Remediation

* Using Site Conceptual Models

- More scientific based investigations
- * Engaging all "players" in process
 - * Property Owner
 - * Client
 - * Regulators
 - * Community
- * Favoring in-situ remediation vs. more traditional approaches of excavation or pump and treat



Remediation Continued

- Increasing the use of more traditional geological investigative techniques:
 - Geophysical surveys
 - Creation of cross-sections
 - Sample collection of parameters beyond the contaminate to determine water chemistry



Surface Water Quality

- * TMDL development
- * Water Lab Certifications
- * Storm Water
- * Watershed Protection Policies



WATER QUANTITY

- * Agricultural Uses -Pivot Point Wells
- * City water supplies
- Industrial water supplies
- * WHO gets the water first during droughts?
- * How is the STATE monitoring withdrawals?



HOW IS KGS ANSWERING THE CALL?

- * Databases
- * Mapping
- * New Research
- Participation in public meetings, comment periods, and committees to ensure the information provided by KGS is being properly used.



WHAT NEEDS TO BE DONE?

- Collection of basic data in much of the state regarding soil, water, and bedrock characteristics that impact environmental remediation, water resource development and protection, and geotechnical.
- Need for development and evaluation of newer GIS and hydrologic data modeling techniques that can help address some of the tougher issues.

