

Glossary of Technical Terms and Acronyms - Little Rock Creek Progress Report

Below are key technical terms and concepts from the Little Rock Creek Preliminary Design Progress Report along with simplified, clear explanations:

| Technical Term | Simple Definition |
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| ADA (Americans with Disabilities Act) Compliance | Accessibility standards for public documents and facilities. |
| Appropriation Permit | Legal authorization for water extraction issued by regulatory authorities. |
| Appropriations Modification (permit reduction) | Reducing or altering the amount of water farmers and businesses are permitted to use. |
| Aquifer | Geological layers capable of storing and transmitting groundwater. |
| Baseflow | The natural, steady water flow in streams from groundwater. |
| Capital Costs | Initial expenses for infrastructure or solutions. |
| Confining Layers (Aquitards) | Geological layers that restrict water flow between aquifers. |
| Conceptual-Level Cost Estimates | Early-stage financial estimates for proposed solutions, based on preliminary designs and assumptions rather than detailed final plans. |
| Conveyance Systems | Pipelines or channels designed to move water from one location to another |
| Diversion | The reduction in streamflow caused by groundwater pumping. |

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| Environmental Quality Incentives Program (EQIP) | Financial assistance program for agricultural conservation. |
| Flowmeter | Device measuring water flow rate or volume in pipelines. |
| Gridded Surface Subsurface Hydrologic Analysis (GSSHA) | A hydrologic modeling software developed by the U.S. Army Corps of Engineers, used to model surface water and soil interactions such as rainfall infiltration and evaporation. |
| Groundwater Evapotranspiration | Water evaporating from the ground or plants back into the atmosphere. |
| Groundwater Recharge | Water moving down from the surface to refill underground aquifers. |
| High-Density Polyethylene (HDPE) | A type of durable plastic pipe commonly used for water conveyance. |
| Hydraulic Conductivity | A measure of how easily water moves through underground soils and rocks. |
| Hydrologic Cycle | The continuous movement of water on, above, and below the surface of the Earth, involving evaporation, condensation, precipitation, and infiltration. |
| Hydrological Model | A simulation tool used to predict how water moves in the environment, including surface water and groundwater interactions. |
| Impoundment | A constructed pond or basin designed to hold back water temporarily, enhancing groundwater recharge and increasing water availability during dry periods. |