TABLE I	adiation Tasky -		
Rem	rediation Technol	logies Used at U.S. (Shromium Sites
Additive	Additive Type	Treatment Mechanism	Comments
Calcium Polysulfide	Inorganic	Sulfide oxidation causing	End products in aerobic conditions is sulfate
Hydrogen Sulfide Gas	Inorganic	hexavalent chromium reduction to trivalent chromium and	and sulfide precipitate (retained by soil) and ir anaerobic conditions may produce measurabl
Sodium Sulfide	Inorganic	precipitation as a sulfide concentrations of aqueous sulfide or other sulfide compounds.	
Ferrous Sulfate	Inorganic	Ferrous oxidation causing hexavalent chromium reduction to trivalent chromium and coprecipitation with ferric iron hydroxide	End products in aerobic conditions is ferric coprecipitate (retained by soil) and in anaerobic conditions may produce measurabl concentrations of aqueous ferrous iron and trivalent chromium.
Sodium Dithionite	Inorganic	Sulfite oxidation causing hydrox hexavalent chromium reduction to potenti trivalent chromium, excess trivalent aqueou chromium preciptates as hydroxide condition	End products in aerobic conditions is a hydroxide precipitate (retained by soil) and,
Sulfur Dioxide Gas	Inorganic		potentially, measureable concentrations of
Sodium Metabisulfite	Inorganic		aqueous trivalent chromium and in anaerobic conditions may produce higher measurable concentrations of aqueous trivalent chromium
Aolasses	Organic (Off-the-Shelf)		
Cheese Whey	Organic (Off-the-Shelf)	Anaerobic biological depression of ORP causing reduction of hexavalent chromium reduction to trivalent chromium, excess trivalent chromium preciptates as hydroxide	 End products in aerobic conditions is a
Sodium Lactate	Organic (Off-the-Shelf)		potentially, measureable concentrations of
Emulsified Oil	Organic (Off-the-Shelf)		
Corn Syrup	Organic (Off-the-Shelf)		
Ethanol	Organic (Off-the-Shelf)		transformation of organic source).
actose	Organic (Off-the-Shelf)		
IRC	Organic (Proprietary)		
		Anaerobic biological depression of ORP causing reduction of hexavalent chromium reduction to trivalent chromium, excess trivalent chromium preciptates as hydroxide	HRC (Hydrogen Release Compound by Regenesis) is propanoic acid, also known as Glycerol Tripolylactate, a carbohydrate. It is a highly viscous material (like Honey) that dissolves slowly, typically about 18 months. End products in aerobic conditions is a hydroxide precipitate (retained by soil) and, potentially, measureable concentrations of aqueous trivalent chromium and in anaerobic conditions may produce higher measurable concentrations of aqueous trivalent chromium and carboxylic acids (incomplete transformation of organic source).
DRC	Organic (Proprietary) blended with Inorganic	Anaerobic biological depression of ORP causing reduction of hexavalent chromium reduction to trivalent chromium, potentially also direct reduction by inorganic sulfide, trivalent chromium preciptates as sulfide	ORC (Oxygen Remediation Compound by Regenesis) is the same material as HRC with an additional organosulfur to precipitate trivalent chromium as a sulfide precipitate. Like HRC, it is a highly viscous material that dissolves slowly, typically about 18 months. End products in aerobic conditions is sulfate and sulfide precipitate (retained by soil) and ir anaerobic conditions may produce measurabl concentrations of aqueous sulfide or other sulfide compounds and carboxylic acids (incomplete transformation of organic source)