



Revised Matrix of Candidate ECs for Characterizing Groundwater Recharge Projects

Type	Chemical	Use	Method	U.S. Source Study	U.S. Drink. Study	IEUA NPDES Permit	SAR Study	W. Basin Expert Panel	Andy Eaton MWH	USGS Oreg. Study
				%Detect	%Detect	Detected	Detected	Recommend	Recommend	Detected
Pharmaceuticals	Acetaminophen	Analgesic	LC-MS ² -1			Y	Y			Y
	Atenolol	Beta-blocker	LC-MS ² -1	63%-74%	44%					
	Atorvastatin	Anti-cholesterol		Y	Y					
	Azithromycin	Antibiotic					Y			
	Carbamazepine	Anti-convulsant	LC-MS ² -1	79%-83%	44%	Y	Y	Y	Y	Y
	Ciprofloxacin	Antibiotic					Y			
	Cotinine	Stimulant	LC-MS ² -1							Y
	Diazepam	Tranquilizer	LC-MS ² -1	Y	Y					
	Diclofenac	Anti-inflammatory	LC-MS ² -5	Y	Y		Y			
	Dilantin	Anti-convulsant	LC-MS ² -5	74%-91%	56%			Y		
	Fluoxetine	Anti-depressant	LC-MS ² -1	Y	Y					Y
	Gemfibrozil	Anti-cholesterol		58%-78%	39%	Y	Y	Y	Y	Y
	Ibuprofen	Analgesic	LC-MS ² -10			Y	Y			Y
	Iopromide	Contrast Media	LC-MS ² -5			Y		Y		
	Meprobamate	Anti-anxiety		84%-91%	78%			Y		
	Naproxen	Analgesic		58%-70%	Y					
	Primidone	Anti-convulsant	LC-MS ² -2				Y			
	Risperidone	Antipsychotic		Y	Y					
Sulfamethoxazole	Antibiotic	LC-MS ² -1	89%-91%	22%		Y	Y		Y	
Tricolsan	Anti-bacterial	LC-MS ² -5	Y	Y	Y	Y				
Trimethoprim	Antibiotic	LC-MS ² -1	58%-74%	Y						
Pesticides/Herbicides	Atrazine	Herbicide	LC-MS ² -1	79%-87%	83%		Y	Y		
	Chlorpyrifos	Pesticide	GC-MS, 25							
	DEET	Insect Repellent	GC-MS	Y	33%			Y		
	Diazinon	Pesticide		Y	Y					
	Dirun	Herbicide	LC-MS ² -5					Y		
	Lindane (g-BHC)	Pesticide	?				ND			
	Linuron	Herbicide	LC-MS ² -5	Y	Y		Y			
	Methoxychlor	Pesticide	GC-MS	Y	Y		Y			
	Metolachlor	Herbicide		Y	27%					
	o,p-DDD	Pesticide	GC-MS				Y			
	Simazene	Pesticide					Y			
Industrial	1,4-Dioxane	Solvent						Y		
	4-Nonylphenol	Surfactant	GC-MS		Y	Y	ND			
	Benzo(a)pyrene	PAH					Y			
	Bisphenol A	Plasticizing Agent	LC-MS ² -10			ND	ND			
	Octylphenol	Surfactant		Y	Y	Y	ND			
	TCEP	Flame Retardant	LC-MS ²	53%-65%	39%		Y	Y		
Hormones	Estrone	Birth Control	LC-MS ² -10	74-79%	Y	Y	ND	Y		
	Ethinylestradiol	Birth Control	LC-MS ² -10	Y	Y	Y	ND			
	Testosterone	Birth Control	?	Y	Y		ND			
Other	Caffeine	Stimulant	LC-MS ² -5	?	?	Y	Y		Y	Y

Yellow = Recommended for Inclusion in 2010 Characterization Study; *Blue* = Under Consideration for Possible Inclusion in 2010 Study