

Update on GAPT Report

The association of arsenic in ground water
with depth, redox conditions, and ground-water age
in varied hydrogeologic settings
within the Glacial Aquifer

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N	Selection criteria
1,544	Glacial aquifer excluding flow-path study wells
767	Glacial aquifer & arsenic data
832	Glacial aquifer & estimated ages
490	Glacial aquifer & arsenic data & estimated ages 248 Tritium 242 CFCs, tritium-helium, SF ₆

Glacial Aquifer stratification variables

**All samples
N=1,544**

Surficial sediment	Aquifer type	Region			
		East	Central east	Central west	West
Coarse	Layer/lens		172	178	79
	Valley fill	310	164	160	34
Fine	Layer/lens		264	31	
	Valley fill	32	30	15	
To be determined					75

Glacial Aquifer stratification variables

Samples with arsenic data
N=767

Surficial sediment	Aquifer type	Region			
		East	Central east	Central west	West
Coarse	Layer/lens		144	32	
	Valley fill	143	105		33
Fine	Layer/lens		159	30	
	Valley fill	30	30	15	
To be determined					46

Glacial Aquifer stratification variables

Samples with arsenic data
and
estimated age (grouped variable)

N=490

Surficial sediment	Aquifer type	Region			
		East	Central east	Central west	West
Coarse	Layer/lens		118	30	14
	Valley fill	40	89		30
Fine	Layer/lens		149		
	Valley fill		20		

Arsenic concentrations

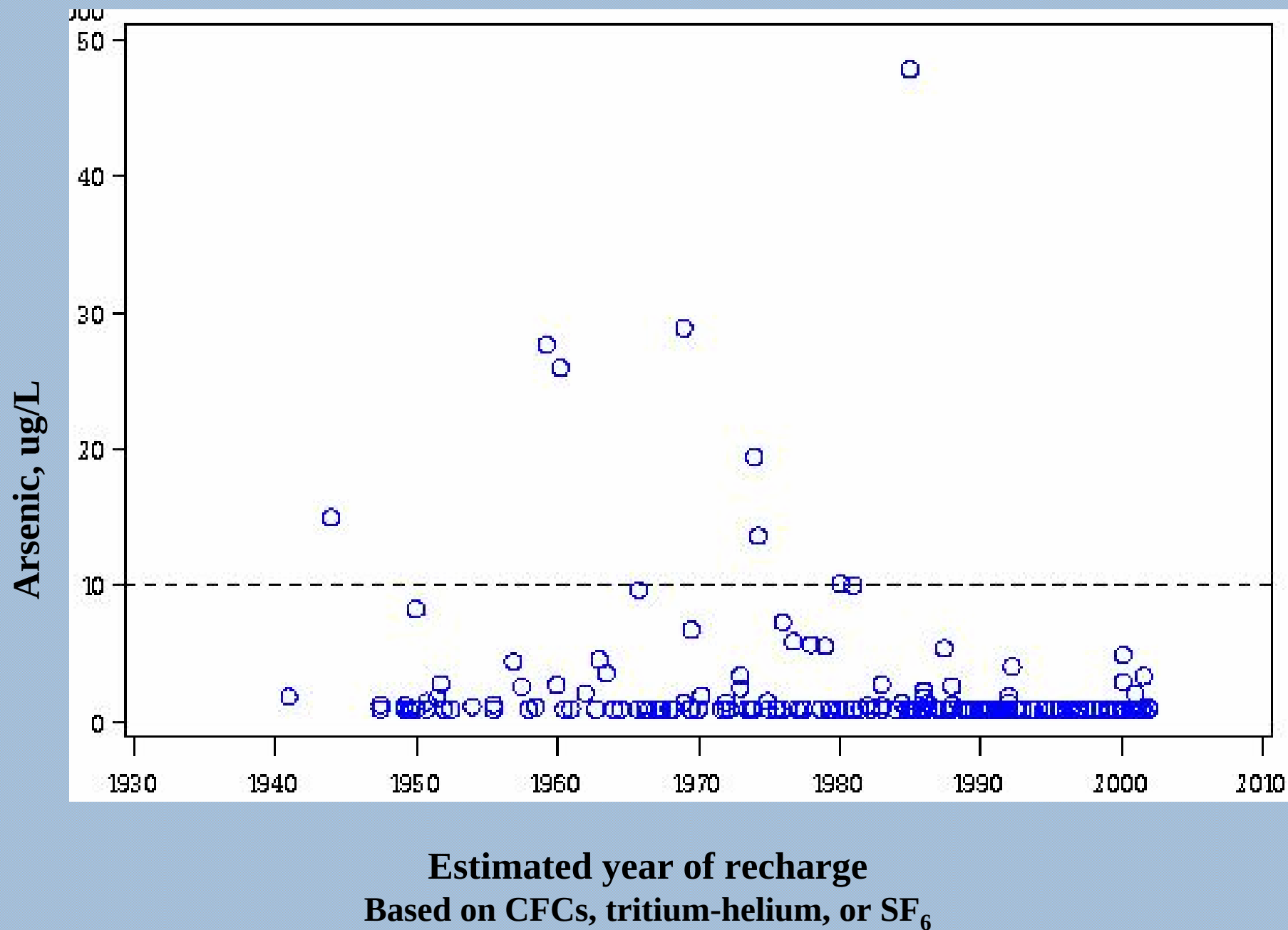
	N	Median (ug/L)
All samples	767	<1
Samples younger than 1953	410	<1
Samples older than 1953	80	3.8

Glacial Aquifer stratification variables

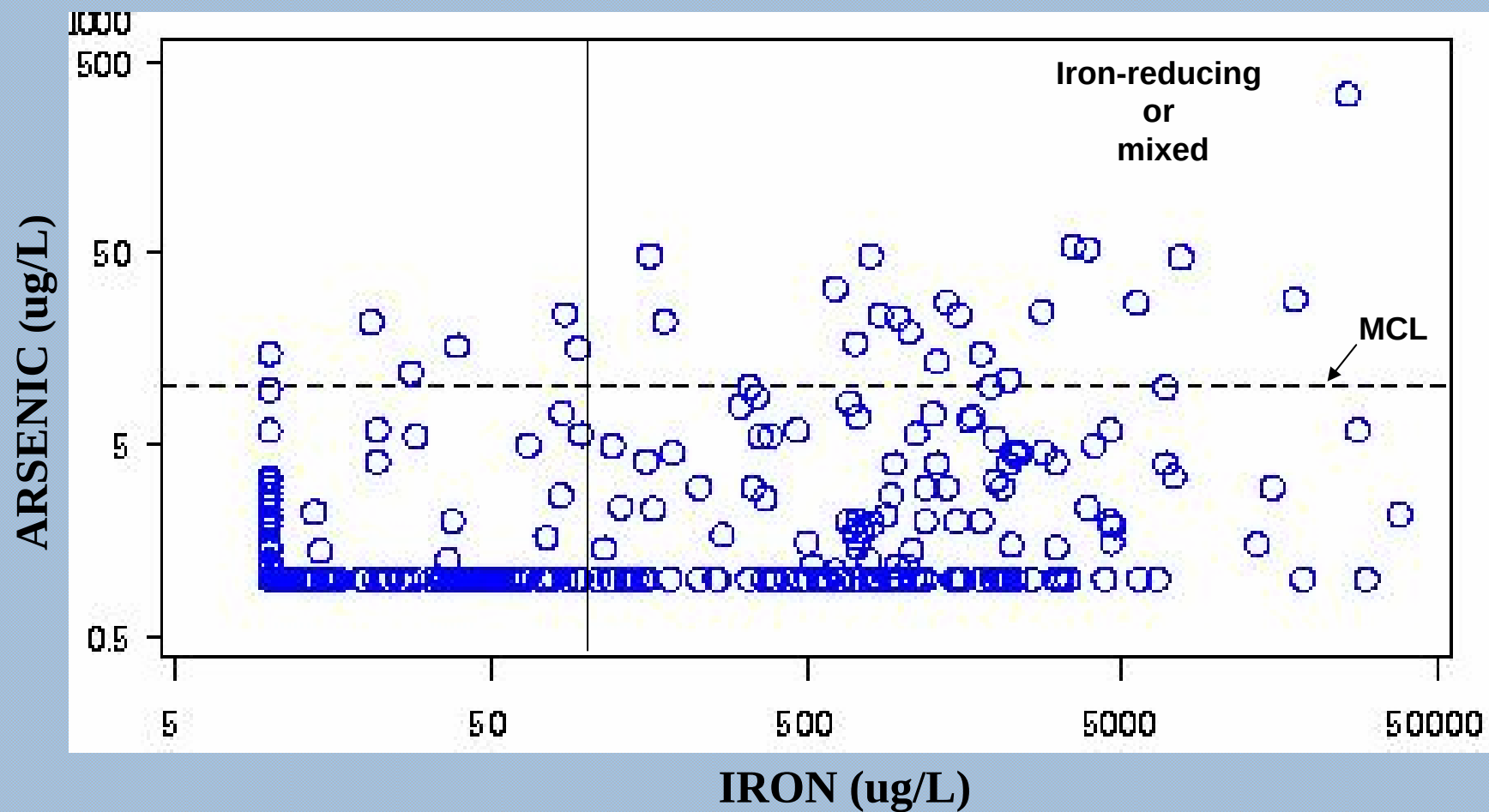
Samples with arsenic data
and
estimated age (continuous variable)

N=242

Surficial sediment	Aquifer type	Region			
		East	Central east	Central west	West
Coarse	Layer/lens		71	1	13
	Valley fill	35	67		29
Fine	Layer/lens		36		
	Valley fill				



Coarse-grained surficial sediment



Fine-grained surficial sediment

