

MEMORANDUM

To H.E. Fawson; R.J. Tucker
From C.C. Olesen
Subject Arsenic Suppression

Date July 28/75
Ref.

ABSTRACT: To determine if treated #8 agitator will reverse on dilution.

On July 10 and July 24 samples were taken from the discharge line of #8 agitator and a set of dilutions were done using Mill Waste Water and tap water as dilutants.

Dilutant	Dilutions	pH	ppm As	(24 hr. wait period)	
				pH	ppm As
Mill Waste	8-1	11.1	12.2	11.5	14.3
Mill Waste	8-2	11.2	14.0	11.4	12.6
Mill Waste	8-4	11.4	12.2	11.6	9.2
Tap Water	8-1	11.0	7.1	11.1	6.1
Tap Water	8-2	11.3	9.2	11.3	9.2
Tap Water	8-4	11.4	9.6	11.6	10.5
Tap Water	8-1	11.0	7.5		
Tap Water	8-2	11.6	5.8		
Tap Water	8-4	12.0	6.0		

(July 24)

Also on the 24th of July a sample of treated #8 was filtered and the ppte was then diluted to the same volume as the filtrate that was originally removed.

	pH	ppm As
#8 treated	12.1	6.0
Diluted #8 treated ppte	10.8	12.0

TEST RESULTS

The above test definitely shows that there is a reversal in #8 agitator after treatment. If no reversal was present then the following readings for arsenic should be:

Dilution	ppm As
8-4	7.5
8-2	3.8
8-1	1.9