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Jan. 17, 1978

Treating streams entering #8 Agitator with Calcium Carbonate.

Abstract: To treat incoming streams to #8 Agitator with Calcium Carbonate for Arsenic Suppression.

Data

	<u>ppmAs</u>
#6 Thickener	15
#11 Thickener	63
#13 Thickener	668
Theoretical	134
Actual	192

RATIO of #6, #11, #13 thickener is 70:35:20

<u>Sample</u>	<u>Amt CaCO<sub>3</sub> /ton</u>	<u>ppm As</u>
1	.5	170
2	1	156
3	1.5	167
4	2.0	162
5	2.5	156
*6	0	192 *
**7	0	156 **
***8	0	39 ***

N.B.

- \*6 - control sample not filtered.
- \*\*7 - filtered sample of combined streams.
- \*\*\*8 - solids from #7 sample to see if more As dissolved into solution.

Conclusion:

- the use of calcium carbonate by its self is useless, maybe in conjunction with something else would be useful.
- the solids tend to dissolve when more liquid is added. This is more likely due to the solids from the carbon plant overflow thickener.

Recommendations:

- try Mr. Morton's suggestion of excess chlorine in system for a stable precipitate.