

#1 21-APR-1987 15:55:02

From: JLCL01::JLCL01::MRGATE::"A1::WARDRB"
To: MRGATE::"HSKVAX::FALLON"
Subj: Update on MR 7971

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Bob Fallon has done some preliminary work with two
samples of well water from CW -- the data are (Pb concentrations
in ppm):

Well

OW-TEL-3D

OW-TEL-2D

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#1 21-APR-1987 15:55:02

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At that point we will need to readdress the project on at least two questions:

(a) a policy question, do we want to spend the project and analytical costs on a study which could only give a bioremediation indicator at less than hazardous waste levels? and

(b) a technical question, are our planned analytical procedures adequate to measure results at the lower range?

Richard.

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21-APR-1987 15:55:02

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Pb level	"high"	"low"
Total Pb	2.2	0.4
Sol Pb @ spl pH	2.4	0.34
Sol Pb @ pH9	0.5	0.28
Microbiological growth	no	yes

This suggests that the original levels planned in MR7971 ("low" 10-20 ppm, "high" 200-400 ppm) are (i) not available from CW wells and (ii) may be too high for growth anyway.

Bob plans to recheck these results and run a few test analyses for Pb. The entire MR as planned has now been estimated to generate about 600 Pb analyses at an added cost of about \$12,000 (\$20 each). However it looks as though the Pb levels in MR7971 may need to be substantially reduced to levels which microorganisms will tolerate, that is <<5 ppm -- the current "hazardous waste trigger level".

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