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Primary Author Last Name:	Fallon	First Name, Middle Initial:	Bob		
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Primary Recipient (s):	R. Ward				
CC's:	D. Cregar, E. Leser				
Names Stated:	Chamber Works Plant, Haskell, John Domenico,				
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4/30/87

FRANK,

MEMO BELOW PLANNED FOR TRANSMISSION TO TEL GROUP. OK?

BOB FALLON

TO: R. WARD, C&P CHAMBERS WORKS

FROM: BOB FALLON, HASKELL

RE: RESULTS FROM FIRST LEAD ANALYSIS

CC: D. CREGAR, E. LESER

JOHN DOMENICO SENT RESULTS FROM OUR FIRST ATTEMPT AT LEAD ANALYSIS AT HASKELL. TWENTY ML WELL WATER SAMPLES IN TRIPPLICATE WERE CARRIED THROUGH THE FRACTIONATION SCHEME PREVIOUSLY OUTLINED. IN ADDITION, THREE TOTAL LEAD SAMPLES FROM THE SAME BATCH OF WATER WERE ANALYSED. THIS WATER WAS FROM WELL #31, THE SAMPLE WITH THE HIGHER CONCENTRATION OF THE TWO WE COLLECTED. THIS WELL WAS REPORTED TO HAVE TOTAL LEAD CONCENTRATIONS OF 2.2 PPM WITH 0.5 PPM ORGANIC LEAD IN THE DATA ERNIE FORWARDED TO ME (WELL OW-TEL-3D).

RESULTS ARE AS FOLLOWS:

<u>SAMPLE</u>	<u>LEAD CONC.</u>	<u>x</u>	<u>VOL. OR WEIGHT</u>	<u>=</u>	<u>LEAD IN FRACTION</u>
TOTAL #1	0.391 MG/ L		0.023 L		9 UG
TOTAL #2	0.415 "		0.020 L		8.3 UG
TOTAL #3	0.422 "		0.022 L		9.3 UG

MEAN = 8.9 UG OR IN A 20 ML SAMPLE
0.443 PPM TOTAL LEAD

FRACTIONATED

A

TEL	0.217 MG/L	0.035 L	7.6 UG
INSOL(PH9)	0.013 MG/100G	14.1 GM	1.8 UG
SOL(PH9)	0.084 MG/L	0.019 L	1.6 UG
			TOTAL = 11.0 UG

B

TEL	0.228 MG/L	0.035 L	8 UG
INSOL(PH9)	0.006 MG/100G	13.1 GM	0.8 UG
SOL(PH9)	0.142 MG/L	0.019 L	2.7 UG
			TOTAL = 11.5 UG

C

TEL	0.160 MG/L	0.035 L	5.6 UG
INSOL(PH9)	0.044 MG/100G	11.1 GM	4.8 UG
SOL(PH9)	0.152 MG/L	0.019 L	2.9 UG

TOTAL = 13.3 UG

MEAN FOR TOTAL LEAD IN FRACTIONATED
SAMPLE = 11.9 UG OR 0.597 PPM IN
20 ML SAMPLE

DISTILLED WATER GLASSWARE RINSE

0.084 MG/L IN A 70 ML SAMPLE. IF ALL WAS DISSOLVED IN 20 ML
THIS WOULD EQUAL A CONCENTRATION OF 0.294 PPM.

CONSIDERING THAT THIS IS THE FIRST TIME WE HAVE WORKED WITH LEAD ANALYSIS AT HASKELL AND THAT WE MADE ONLY MODERATE GLASS WARE CLEAN UP EFFORTS, I AM VERY ENCOURAGED BY THE RESULTS. SINCE WE WILL BE LOOKING FOR MOVEMENT OF LEAD FROM THE ORGANIC FRACTIONS (TEL + SOL LEAD) TO THE INORGANIC FRACTION (INSOL. LEAD), WE WILL BE MEASURING LOSS FROM THE POOL THAT ALWAYS MAKES UP 60% OR MORE OF THE TOTAL LEAD AND WE SHOULD HAVE REASONABLY GOOD SENSITIVITY TO CHANGES. THEREFORE, I DON'T SEE LEAD ANALYSIS AS A SIGNIFICANT PROBLEM IN THE TEL PROJECT, EVEN THOUGH WE WILL BE WORKING WITH LEAD LEVELS 10-100X LOWER THAN ORIGINALLY DISCUSSED.

PLEASE LET ME KNOW IF ALL PARTIES AT CHAMBERS WORKS AGREE WITH THIS EVALUATION.