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DOCUMENT NO.

BNWL-C-73

DECLASSIFIED

PROJECT

DATE

May 18, 1971

SERIES AND COPY NO.

A-1

DECLASSIFIED

BATTELLE-NORTHWEST

RICHLAND, WASHINGTON

ISSUING FILE

TITLE AND AUTHOR

TRITIUM TESTWELL DATA - 1964-65

L. S. Kellogg

C-57

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ROUTE TO:	PAYROLL NO.	LOCATION	FILES ROUTE DATE	SIGNATURE AND DATE
J. P. Corley	30528	3705	MAY 18 1971	<i>[Signature]</i> 5/20/71
<i>J. P. Corley</i> <i>Chief, Safeguards</i> <i>Elmer E. B. for</i> <i>J. E. Hanson</i> <i>J. P. Corley</i>	63019	Fed	JAN 15 1974	<i>[Redacted]</i>
	30528	318	JAN 28 1974	<i>J. E. Hanson</i> By <u>RC-CG-1</u> 1-24-74
MASTER				DECLASSIFIED
DISTRIBUTION RESTRICTED TO U.S. ONLY				Classification Cancelled and Changed To
				By Authority of <u>CG-PR-2</u>
				By <i>OS Lewis</i> 12-21-9
				Verified By <i>ADG</i> 1-5-94 <i>DJ Krutew</i> 1-5-94
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ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

C-57

DECLASSIFIED

REQUESTOR'S SAMPLE NO. Refer Below		ANALYSIS NO.	
SAMPLE DESIGNATION Test Wells			
SAMPLE SITE Refer to well location number below			
REQUESTED BY G. E. Backman	AREA 300	BLDG. 3703	PHONE 3153
DATE - TIME SAMPLED Refer Below	DATE RECEIVED 2-3-64	DATE COMPLETED 2-20-64	
ANALYSIS DESIRED Tritium			

Well Location No.	Date Sampled	$\mu\text{C H}^3/\text{ml}$ (1)
E-13-13	1-8-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
13-20	1-8-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
-19-1	1-6-64	$5.7 \times 10^{-6} \pm 2.2 \times 10^{-6}$
-23-2	1-6-64	$1.1 \times 10^{-5} \pm 3.3 \times 10^{-6}$
-24-1	1-6-64	1.6×10^{-2}
-24-7	1-6-64	3.5×10^{-5}
-25-3	1-6-64	1.1×10^{-3}
-25-7	1-6-64	1.8×10^{-3}
-25-11	1-6-64	1.6×10^{-3}
-26-1	1-6-64	$<2.0 \times 10^{-6}$ or $<6.8 \times 10^{-6}$
-26-4	1-6-64	4.4×10^{-4}
-26-5	1-6-64	$1.1 \times 10^{-5} \pm 6.4 \times 10^{-6}$
-28-2	1-8-64	$<2.0 \times 10^{-6}$ or $<6.8 \times 10^{-6}$
34-1	1-8-64	3.5×10^{-5}
W-6-1	1-9-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
-10-1	1-9-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
-11-14	1-9-64	1.6×10^{-5}
-12-1	1-9-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
-14-1	1-9-64	3.6×10^{-4}
-14-2	1-9-64	2.7×10^{-4}
W-15-2	1-9-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
-19-2	1-13-64	1.3×10^{-3}
-19-4	1-13-64	$<2.0 \times 10^{-6}$ or $<6.9 \times 10^{-6}$
-21-1	1-13-64	4.6×10^{-4}
-22-2	1-13-64	1.1×10^{-3}
-22-19	1-13-64	3.7×10^{-2}
-23-4	1-13-64	1.1×10^{-1}

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ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

DECLASSIFIED

REQUESTOR'S SAMPLE NO. , Refer Below		ANALYSIS NO. 425	
SAMPLE DESIGNATION Routine Test Wells			
SAMPLE SITE Refer to well location number			
REQUESTED BY G. E. Backman	AREA 300	BLDG. 3703	PHONE 3153
DATE - TIME SAMPLED Refer Below	DATE RECEIVED --	DATE COMPLETED 7-30-64	
ANALYSIS DESIRED Tritium			

<u>Well Location No.</u>	<u>Date Sampled</u>	<u>$\mu\text{C H}^3/\text{ml}$</u> ⁽¹⁾
299-33-4	4-7-64	$3.6 \times 10^{-6} \pm 2.6 \times 10^{-6}$
-E-24-2	6-9-64	4.6×10^{-2}
-E-26-5	6-9-64	8.3×10^{-5}
-E-26-5	6-11-64	1.4×10^{-4}
-W-22-14	6-9-64	1.2×10^{-1}
-W-22-14P	6-9-64	6.2×10^{-3}
-W-22-19	6-9-64	2.0×10^{-2}
-W-23-4	6-9-64	$<2.1 \times 10^{-6}$ or $<9.1 \times 10^{-6}$
699-31-65	5-5-64	$<2.1 \times 10^{-6}$ or $<9.1 \times 10^{-6}$
-35-70	5-5-64	2.2×10^{-5}
-36-61A	5-5-64	$<2.1 \times 10^{-6}$ or $<9.1 \times 10^{-6}$
-40-24	4-16-64	1.6×10^{-4}
-40-33	4-16-64	$<2.1 \times 10^{-6}$ or $<9.1 \times 10^{-6}$
-42-42	4-15-64	7.0×10^{-4}
-45-42	4-15-64	2.4×10^{-4}
-50-30	4-14-64	$<2.1 \times 10^{-6}$ or $<9.1 \times 10^{-6}$

(1) Two "less than" values are reported. The first is calculated from the upper limit of the background at the 99% C.L. The second calculated for a count rate yielding a statistical counting error of $\leq \pm 25\%$ or the 95% C.L.

/bbm

cc: WA Haney
DJ Brown
AP Binder
File

JJK

BD-7600-086 (10-62) REC-GE RICHLAND, WASH.

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ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
SAMPLE DESIGNATION <i>Test Well Tritium</i>			
SAMPLE SITE <i>Refer to Location</i>			
REQUESTED BY <i>W. J. Haver</i>	AREA <i>200 ft</i>	BLDG. <i>200 ft</i>	PHONE <i>2-4500</i>
DATE - TIME SAMPLED <i>6-15-64</i>	DATE RECEIVED <i>6-17-64</i>	DATE COMPLETED <i>9-1-64</i>	
ANALYSIS DESIRED <i>Tritium</i>			

Location No.	Date Sampled	$\mu\text{Ci}/\text{ml}^{(1)}$	Location No.	Date Sampled	$\mu\text{Ci}/\text{ml}^{(1)}$
29920-6-1	6-15-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	699-28-51	7-14-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-6-1	6-17-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	28-52	7-15-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-13-1	6-15-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-30-31	7-16-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-13-1	6-17-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-30-31	7-17-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-14-10	6-15-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-30-31A	7-15-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-14-10	6-17-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-30-31B	7-17-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-12-1	6-15-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	(2) -30-31C	7-15-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-13-1	6-17-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	(2) -30-31C	7-17-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-19-4	6-15-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-31-53B	7-15-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-21-1	6-17-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-31-53B	7-16-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-21-1	6-15-64	3.9×10^{-4}	-32-70	7-15-64	7.3×10^{-5}
-21-1	6-17-64	4.0×10^{-4}	-32-70	7-16-64	7.3×10^{-5}
-22-4	6-9-64	1.3×10^{-1}	-34-39A	7-15-64	2.5×10^{-3}
-22-4	6-11-64	1.1×10^{-1}	-34-39A	7-16-64	2.5×10^{-3}
-22-12	6-9-64	7.1×10^{-3}	-35-9	7-15-64	4.2×10^{-6} or $< 7.3 \times 10^{-6}$
-22-12	6-11-64	2.2×10^{-2}	-35-9	7-16-64	1.9×10^{-6} or $< 5.2 \times 10^{-6}$
-23-4	6-11-64	1.0×10^{-1}	-35-70	7-15-64	2.5×10^{-3}
			-40-24	7-15-64	2.5×10^{-3}
299E-24-2	6-11-64	3.5×10^{-2}	-40-24	7-16-64	2.5×10^{-3}
-25-11	6-9-64	8.3×10^{-4}	-40-23	7-14-64	1.9×10^{-6} or $< 5.2 \times 10^{-6}$
-25-11	6-11-64	5.7×10^{-4}	-40-33	7-15-64	1.9×10^{-6} or $< 5.2 \times 10^{-6}$
			-42-12	7-7-64	4.2×10^{-6} or $< 7.3 \times 10^{-6}$
299E-1-18	7-7-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-42-12	7-9-64	1.9×10^{-6} or $< 5.2 \times 10^{-6}$
-1-18	7-9-64	1.9×10^{-6} or 1.6×10^{-6}	-42-42	7-11-64	7.3×10^{-5}
-1-3	7-7-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-42-42	7-16-64	7.3×10^{-5}
-1-3	7-9-64	$< 1.4 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$	-45-20	7-15-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-8-17	7-7-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-45-20	7-17-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-8-17	7-9-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-45-42	7-14-64	2.5×10^{-3}
-45-2	7-7-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-45-42	7-16-64	2.5×10^{-3}
-45-2	7-9-64	$< 1.4 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$	-45-69	7-11-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-17-5	7-7-64	$< 4.5 \times 10^{-6}$ or $< 7.3 \times 10^{-6}$	-47-35	7-11-64	2.5×10^{-3} or 1.9×10^{-6}
-17-5	7-9-64	$< 1.4 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$	-47-35	7-16-64	2.5×10^{-3} or 1.9×10^{-6}
-20-20	7-7-64	3.4×10^{-4}	-48-71	7-11-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-20-20	7-9-64	3.2×10^{-4}	-48-71	7-16-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-25-55	7-14-64	$< 1.4 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$	-50-28	7-11-64	2.5×10^{-3} or 1.9×10^{-6}
-25-55	7-16-64	$< 1.4 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$	-50-28	7-16-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
(2) -26-40 S	7-15-64		-50-30	7-15-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
-26-40	7-17-64	2.3×10^{-2}	-50-30	7-17-64	$< 1.9 \times 10^{-6}$ or $< 5.2 \times 10^{-6}$
			-45-69	7-16-64	1.9×10^{-6} or $< 5.2 \times 10^{-6}$

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Well Location	Date Sampled	MC #3/mil
699-50-28	11-25-64	$<5.0 \times 10^{-7}$ or $<1.2 \times 10^{-6}$
-50-30	11-19-64	$<5.2 \times 10^{-7}$ or $<1.2 \times 10^{-6}$
-50-42	11-19-64	$1.0 \times 10^{-6} \pm 0.6 \times 10^{-6}$
-50-53	11-19-64	2.1×10^{-5}
-53-E-12	11-13-64	$<8.0 \times 10^{-7}$ or $<2.3 \times 10^{-6}$
-53-55	11-18-64	$<5.2 \times 10^{-7}$ or $<1.2 \times 10^{-6}$
-53-55	11-20-64	$<5.0 \times 10^{-7}$ or $<1.7 \times 10^{-6}$
(2) -53-55R	7-17-64	$<1.5 \times 10^{-6}$ or $<4.9 \times 10^{-6}$
-54-57	11-19-64	$<5.2 \times 10^{-7}$ or $<1.8 \times 10^{-6}$
-54-57	11-25-64	$<5.0 \times 10^{-7}$ or $<1.7 \times 10^{-6}$
-56-E-4	10-14-64	$<1.4 \times 10^{-6}$ or $<5.3 \times 10^{-6}$
-56-E-4C	8-17-64	$<1.5 \times 10^{-6}$ or $<4.9 \times 10^{-6}$
-56-E-4C	8-24-64	$2.2 \times 10^{-6} \pm 1.8 \times 10^{-6}$
-56-E-15	10-14-64	$<1.4 \times 10^{-6}$ or $<5.3 \times 10^{-6}$
299E-13-20	9-3-64	1.1×10^{-5}
-24-2	9-3-64	4.2×10^{-2}
-24-2	12-2-64	(3)
-24-2	12-3-64	(3)
-25-11	12-3-64	9.3×10^{-4}
-26-5	9-1-64	1.6×10^{-4}
-26-5	12-3-64	1.3×10^{-4}
-27-5	9-3-64	1.3×10^{-5}
299W-6-1	9-14-64	$<1.5 \times 10^{-6}$ or $<4.9 \times 10^{-6}$
-6-1	9-16-64	$<1.4 \times 10^{-6}$ or $<5.3 \times 10^{-6}$
-10-1	9-14-64	$1.8 \times 10^{-6} \pm 1.6 \times 10^{-6}$
-10-1	9-16-64	$<1.4 \times 10^{-6}$ or $<5.3 \times 10^{-6}$
-11-10	9-14-64	$<1.5 \times 10^{-6}$ or $<4.9 \times 10^{-6}$
-11-10	9-16-64	$3.3 \times 10^{-6} \pm 1.6 \times 10^{-6}$
-12-1	9-14-64	$<1.5 \times 10^{-6}$ or $<4.9 \times 10^{-6}$
-12-1	9-16-64	$<1.4 \times 10^{-6}$ or $<5.3 \times 10^{-6}$
-21-1	9-14-64	3.7×10^{-4}
-21-1	9-16-64	3.2×10^{-4}
-22-14	9-1-64	8.9×10^{-2}
-22-14	9-3-64	7.2×10^{-2}
-22-14	12-3-64	6.4×10^{-2}
-22-14P	9-3-64	1.1×10^{-2}
-22-14P	12-3-64	1.5×10^{-2}
-22-19	9-1-64	2.0×10^{-2}
-22-19	9-3-64	1.9×10^{-2}
-23-4	9-1-64	8.8×10^{-2}
-23-4	9-3-64	8.0×10^{-2}
699-30-31S	7-17-64	1.8×10^{-4}
-53-E12	11-12-64	$<5.2 \times 10^{-7}$ or $<1.8 \times 10^{-6}$
S11-E12	11-13-64	$<5.9 \times 10^{-7}$ or $<1.9 \times 10^{-6}$

(1) Two "less than" values are reported. The first being the calculated detection limit based on counting statistics, but no precision estimate. The second value that reported, again according to counting statistics, to give a counting precision of $\pm 25\%$ at the 95% C.L.

(2) These samples were listed on the last report but were in question of being rerun.

(3) These samples are being rerun as they did not agree.

BWL-C-73
Is one in ES+ES
Has a file of these

DO-7800-086 (10-82) REC-82 RICHLAND, WASH.

ANALYTICAL REPORT

HL RADIOLOGICAL ANALYSIS

REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
SAMPLE DESIGNATION Test Waste		DECLASSIFIED	
SAMPLE SITE			
REQUESTED BY J. A. Gannon	AREA 100-10	BLOG. 100-10	PHONE 2-1072
DATE - TIME SAMPLED Before 10:00	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED Tritium			

Sample Designation	Date Sampled	Analysis
100-1-15	1-15-77	1.2×10^{-5} to 2.2×10^{-5}
-2-3	2-3-77	1.2×10^{-5} to 2.2×10^{-5}
-2-3	2-11-77	1.2×10^{-5} to 2.2×10^{-5}
-3E12	3-12-77	1.2×10^{-5} to 2.2×10^{-5}
-3-1	3-1-77	1.2×10^{-5} to 2.2×10^{-5}
-8-17	8-17-77	1.2×10^{-5} to 2.2×10^{-5}
-9E2	9-2-77	1.2×10^{-5} to 2.2×10^{-5}
-11E12	11-12-77	1.2×10^{-5} to 2.2×10^{-5}
-11E12	11-12-77	1.2×10^{-5} to 2.2×10^{-5}
-11E12	11-12-77	1.2×10^{-5} to 2.2×10^{-5}
-17-5	1-7-78	1.2×10^{-5} to 2.2×10^{-5}
-20-20	2-0-78	3.6×10^{-4}
-25-55	2-5-78	1.2×10^{-5} to 2.2×10^{-5}
-30-40	3-0-78	7.6×10^{-5}
-28-40	2-8-78	7.3×10^{-5}
-28-52	2-8-78	7.3×10^{-5}
-28-52	2-8-78	7.6×10^{-5}
-30-31	3-0-78	2.4×10^{-3}
-30-31R	3-0-78	2.0×10^{-3}
-30-31R	3-0-78	2.3×10^{-3}
-30-31S	3-0-78	5.9×10^{-5}
-30-31S	3-0-78	1.7×10^{-5}
-32-70	3-2-78	4.7×10^{-5}
-34-39A	3-4-78	1.2×10^{-5}
-35-9	3-5-78	1.2×10^{-5} to 2.2×10^{-5}
-38-70	3-8-78	4.2×10^{-4}
-40-20	4-0-78	1.2×10^{-5} to 2.2×10^{-5}
-40-24	4-0-78	2.6×10^{-4}
-40-33	4-0-78	1.2×10^{-5} to 2.2×10^{-5}
-42-12	4-2-78	1.2×10^{-5} to 2.2×10^{-5}
-45-30	4-5-78	1.2×10^{-5} to 2.2×10^{-5}
-45-42	4-5-78	2.0×10^{-4}
-45-42	4-5-78	7.3×10^{-5}
-45-44	4-5-78	1.2×10^{-5} to 2.2×10^{-5}
-47-35	4-7-78	1.7×10^{-6} to 7.3×10^{-7}
-48-71	4-8-78	1.2×10^{-5} to 2.2×10^{-5}
-48-71	4-8-78	7.3×10^{-7} to 7.2×10^{-7}
-50-20	5-0-78	1.2×10^{-5} to 2.2×10^{-5}
-50-20	5-0-78	1.2×10^{-5} to 2.2×10^{-5}

BD-7600-086 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

DECLASSIFIED

REQUESTOR'S SAMPLE NO. 7-10-11		ANALYSIS NO.	
SAMPLE DESIGNATION Tad. Walls			
SAMPLE SITE Ref. 10-11			
REQUESTED BY Ref. 10-11	AREA Ref. 10-11	BLDG. Ref. 10-11	PHONE 7-7572
DATE - TIME SAMPLED Ref. 10-11	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED Tad. Walls			

Sample Designation	Counting	µCi H ³ /ml
699-55-20	2-10-11	1.13×10^{-6} or 2.2×10^{-6}
-55-42	2-10-11	2.9×10^{-6}
-55-50A	2-10-11	$< 2.2 \times 10^{-6}$
-55-50B	2-10-11	$< 6.3 \times 10^{-7}$ or $< 2.2 \times 10^{-6}$
-54-57	2-10-11	$< 3.4 \times 10^{-6}$ or $< 1.2 \times 10^{-6}$
299-24-2	2-10-11	1.2×10^{-6}
-24-2	2-10-11	1.3×10^{-6}
-25-11	2-10-11	4.2×10^{-6}
-25-11	2-10-11	1.2×10^{-6}
-25-5	2-10-11	2.4×10^{-6}
-25-5	2-10-11	2.1×10^{-6}
299-10-1	2-10-11	$1.2 \times 10^{-6} \pm 2.9 \times 10^{-7}$
-10-1	2-10-11	5.5×10^{-6}
-10-1	2-10-11	$< 1.7 \times 10^{-6}$ or $< 1.7 \times 10^{-6}$
-11-10	2-10-11	$< 1.7 \times 10^{-6}$ or $< 1.7 \times 10^{-6}$
-11-10	2-10-11	$1.3 \times 10^{-6} \pm 5.5 \times 10^{-7}$
-12-1	2-10-11	2.9×10^{-6}
-12-1	2-10-11	2.8×10^{-5}
-21-1	2-10-11	3.8×10^{-4}
-21-1	2-10-11	3.2×10^{-4}
-22-19	2-10-11	1.6×10^{-1}
-22-19	2-10-11	1.5×10^{-1}
-22-19A	2-10-11	1.9×10^{-2}
-22-19B	2-10-11	1.7×10^{-2}
-22-19	2-10-11	1.6×10^{-2}
-22-19	2-10-11	1.6×10^{-2}
-23-4	2-10-11	2.5×10^{-2}
-23-4	2-10-11	2.6×10^{-2}

Note - "Less than" calculations. Two values are reported, both solely based on counting precision. The first is the amount of sample that would have to be present to be observed as a positive sample at 95% of the time - with no counting precision given. The second value is the amount that would have to be present to give a counting precision of $\pm 20\%$ at the 95% level.

cc: D. J. Brown
R. B. Hall
File

J.S.K.

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END