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ChemRisk/Shonka Research Associates, Inc., Document Request Form

(This section to be completed by subcontractor requesting document)

Jack Buddenbaum / K-25 Site Records
Requestor / Document Center (is requested to provide the following document)

Date of request 3/22/95 Expected receipt of document 4/7/95

Document number _____ Date of document 1963

Title and author (if document is unnumbered)
Report of Water Analyses (Veg, Soil, Mud, etc) 1963

Please copy the entire folder

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Date request received 3/27/95

Date submitted to ADC 3/29/95

Date submitted to HSA Coordinator _____

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Date submitted to CICO 3/29/95 6/2/95

Date received from CICO 5/2/95 6/5/95

Date submitted to ChemRisk/Shonka and DOE 6/5/95

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

Date document received _____

Signature _____

REPORT OF WATER ANALYSES
(Veg., Soil, Mud, etc.) 1963

Union Carbide Nuclear Company, Oak Ridge Gaseous Diffusion Plant, Operating Contractor for the U.S. Atomic Energy Commission.

This document has been approved for release to the public by:

Arvin S Quist 6/2/95

Technical Information Officer Date
Oak Ridge K-25 Site

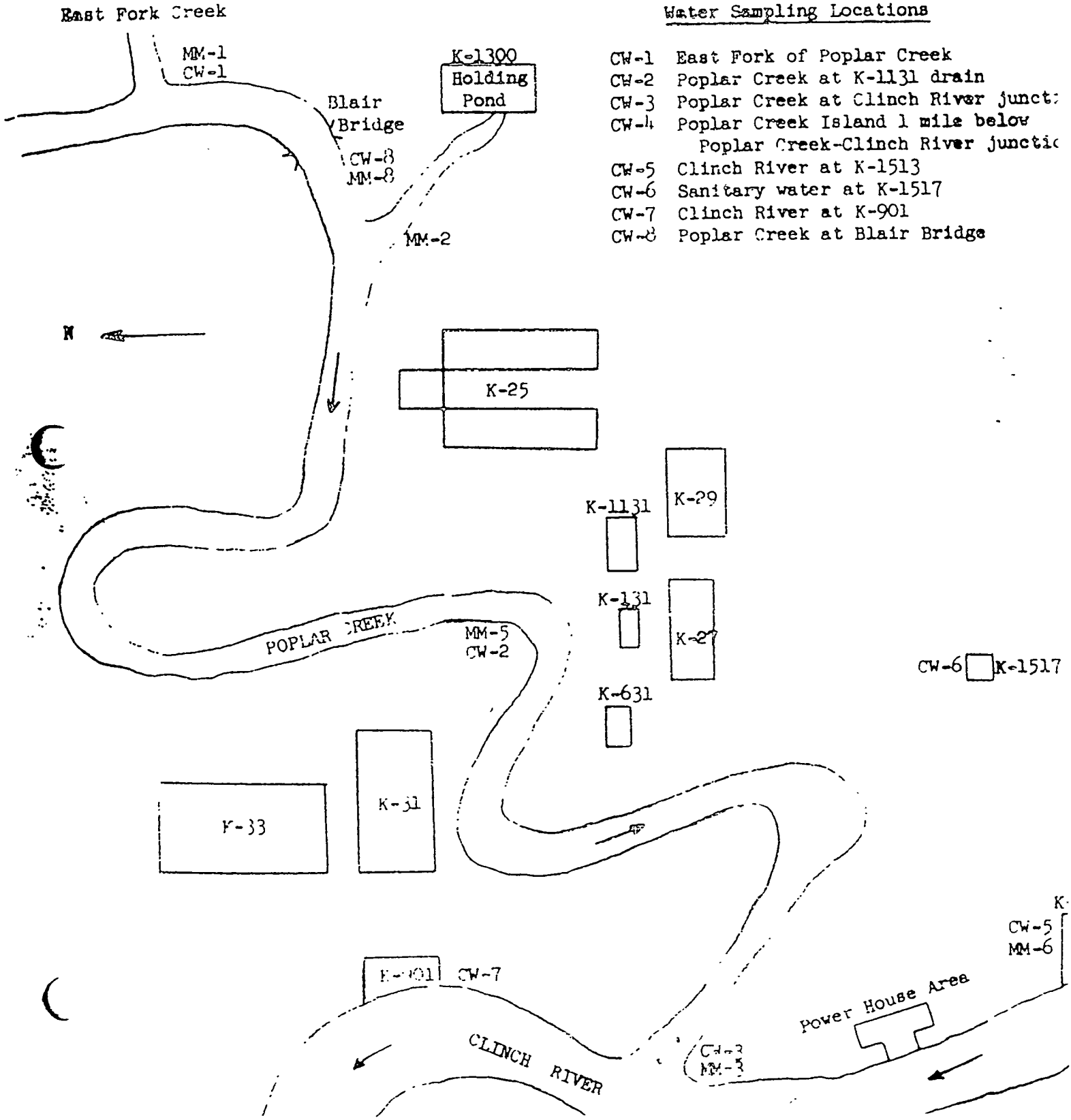
K-25 DRAINAGE AREA

Mud Sampling Locations

MM-1 East fork at Poplar Creek junction
MM-2 K-1300 Holding Pond drain at Poplar Creek
MM-3 Poplar Creek at Clinch River junction
MM-4 Clinch River 1 mile below the Poplar Creek junction
MM-5 Poplar Creek at the K-27 area drain
MM-6 Clinch River at K-1513
MM-7 Sludge from Sewage Disposal Plant
MM-8 Poplar Creek at Blair Bridge

Water Sampling Locations

CW-1 East Fork of Poplar Creek
CW-2 Poplar Creek at K-1131 drain
CW-3 Poplar Creek at Clinch River junct
CW-4 Poplar Creek Island 1 mile below Poplar Creek-Clinch River junctio
CW-5 Clinch River at K-1513
CW-6 Sanitary water at K-1517
CW-7 Clinch River at K-901
CW-8 Poplar Creek at Blair Bridge



N.B. SCHULTZ

URANIUM MEASUREMENTS DATA

SAMPLE SUBMITTED BY | BLDG. NO. | PHONE

QUEST NO. | CHARGE

U. M. NUMBER	DATE RECEIVED	DESCRIPTION	Tc µg/g	Np µg/g	Sr dis/min/L	U gu/g
CYLINDER	2306			0.4		
"	2310			1.0		
SNOW	Dec 1963 SNOW				12	
HEEL, (ROUND)		7/11/63	.04	0.34		0.0018
K1037 Top (Rectangle)			.29	<0.02		0.0011
PAD. FERRAL			1.4	0.23		0.0012
K1302 BLOWER (Stack fan)			<0.02	<0.02		

0.8 - 5.0 mm/hr (beta)
0.2 mm/hr (gamma)

1964 FEB 7 AM 11:30

Safety and Health Physics

DATE 2-4-64

RESULTS APPROVED BY G. S. Petit

UCN-2813

REPORT OF WATER ANALYSES

REPORT NO._____

Distribution:

A. F. Becher, T. Kwasnoski, R(
C. H. Mahoney, W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	Counts per min/100 ml. BETA
498-W	11-16-63	CW-1	14				
502-W	"	CW-7	0				
515-W	11-23-63	CW-1	12				
519-W	"	CW-7	16				
522-W	11-30-63	CW-1	12				
526-W	"	CW-7	0				
529-W	12-7-63	CW-1	0				
533-W	"	CW-7	0				
536-W	12-14-63	CW-1	0				
540-W	"	CW-7	0				
545-W	12-21-63	CW-7	0				
549-W	12-29-63	CW-1	0				
553-W	"	CW-7	0				

1964 FEB 12 PM 12:31

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR T Kwasnoski

DATE RELEASED 2/11/64

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

Health Physics

REPORT OF WATER ANALYSES

REPORT NO. 579

Distribution:
A. F. Becher, T. Kwasnoski, RC
W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
529-W	12-7-63	CW-1	0.8	6.4	6.7×10^{-8}	0.46×10^{-7}	0.63×10^{-7}
530-W	"	CW-3	0.4	6.8	2.1×10^{-9}	0.11×10^{-7}	2.34×10^{-7}
531-W	"	CW-5	0.4	7.2	$< 7.0 \times 10^{-10}$	0.04×10^{-7}	0.92×10^{-7}
532-W	"	CW-6	0.4	7.2	$< 7.0 \times 10^{-10}$	0.05×10^{-7}	1.28×10^{-7}
533-W	"	CW-7	0.2	7.3	$< 7.0 \times 10^{-10}$	0.03×10^{-7}	0.97×10^{-7}
534-W	"	CW-8	0.3	7.3	$< 7.0 \times 10^{-10}$	0.03×10^{-7}	1.87×10^{-7}
535-W	"	DW-1	0.4	7.1	$< 7.0 \times 10^{-10}$	0.03×10^{-7}	0.08×10^{-7}
536-W	12-14-63	CW-1	0.8	7.0	8.0×10^{-8}	0.51×10^{-7}	0.50×10^{-7}
537-W	"	CW-3	1.0	7.3	1.5×10^{-8}	0.30×10^{-7}	1.34×10^{-7}
538-W	"	CW-5	0.5	7.5	5.6×10^{-8}	0.02×10^{-7}	0.76×10^{-7}
539-W	"	CW-6	0.4	7.4	2.8×10^{-8}	0.00×10^{-7}	1.11×10^{-7}
540-W	"	CW-7	0.3	7.5	1.4×10^{-9}	0.06×10^{-7}	0.36×10^{-7}
541-W	"	CW-8	0.3	7.5	7.0×10^{-10}	0.05×10^{-7}	0.18×10^{-7}
542-W	"	DW-1	0.4	7.2	$< 7.0 \times 10^{-10}$	0.04×10^{-7}	1.34×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

SUPERVISOR Kwasnoski

DATE RELEASED 1/8/64

UCN-3252
(1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 583

Distribution:

A. F. Becher, T.Kwasnoski, R(
W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
505-W	11-20-63	V-16	24				
506-W	"	V-17	20				
507-W	"	V-18	15				
508-W	"	V-19	51				
509-W	"	V-20	5				
510-W	"	P-16	2				
511-W	"	P-17	7				
512-W	"	P-18	5				
513-W	"	P-19	14				
514-W	"	P-20	0.5				

1964 FEB 12 PM 12:31

Safety and Health Physics

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

SUPERVISOR T Kwasnoski

DATE RELEASED 2/11/64

REPORT OF WATER ANALYSES

REPORT NO. 584

Distribution:
A. F. Becher; T.Kwasnoski, RC
W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
543-W	12-21-63	CW-3	0.5	6.7	3.4×10^{-8}	0.23×10^{-7}	0.58×10^{-7}
544-W	"	CW-5	0.0	7.2	2.1×10^{-9}	0.00×10^{-7}	1.48×10^{-7}
545-W	"	CW-6	0.7	7.4	7.0×10^{-10}	0.06×10^{-7}	0.88×10^{-7}
546-W	"	CW-7	0.2	7.5	7.0×10^{-10}	0.03×10^{-7}	0.98×10^{-7}
547-W	"	CW-8	1.0	7.2	3.4×10^{-8}	0.39×10^{-7}	0.09×10^{-7}
548-W	"	DW-1	0.1	7.3	7.0×10^{-10}	0.06×10^{-7}	0.41×10^{-7}
549-W	12-29-63	CW-1	1.0	6.9	6.6×10^{-8}	0.27×10^{-7}	0.50×10^{-7}
550-W	"	CW-3	0.0	7.1	5.6×10^{-9}	0.11×10^{-7}	0.69×10^{-7}
551-W	"	CW-5	0.0	7.4	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.77×10^{-7}
552-W	"	CW-6	0.0	7.4	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.32×10^{-7}
553-W	"	CW-7	0.8	7.4	$<7.0 \times 10^{-10}$	0.08×10^{-7}	0.68×10^{-7}
554-W	"	CW-8	0.0	6.9	3.9×10^{-8}	0.37×10^{-7}	0.26×10^{-7}
555-W	"	DW-1	0.0	7.0	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.45×10^{-7}

Safety and Health Physics
1964 FEB 12 PM 12:31

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

SUPERVISOR T Kwasnoski

DATE RELEASED 2/11/64

REPORT OF WATER ANALYSES

REPORT NO. 578

Distribution:
A. F. Becher, T. Kwasnoski, RC
W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
515-W	11-23-63	CW-1	1.2	6.7	4.4×10^{-8}	0.42×10^{-7}	0.77×10^{-7}
516-W	"	CW-3	0.8	6.8	2.7×10^{-8}	0.13×10^{-7}	0.82×10^{-7}
517-W	"	CW-5	0.2	7.0	$< 7.0 \times 10^{-10}$	0.04×10^{-7}	1.81×10^{-7}
518-W	"	CW-6	0.2	7.1	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.42×10^{-7}
519-W	"	CW-7	0.1	7.0	2.1×10^{-9}	0.00×10^{-7}	0.70×10^{-7}
520-W	"	CW-8	0.8	6.5	4.1×10^{-8}	0.47×10^{-7}	0.91×10^{-7}
521-W	"	DW-1	0.3	6.7	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.41×10^{-7}
522-W	11-30-63	CW-1	0.5	6.8	4.1×10^{-8}	0.37×10^{-7}	0.49×10^{-7}
523-W	"	CW-3	0.6	7.1	4.4×10^{-8}	0.32×10^{-7}	0.52×10^{-7}
524-W	"	CW-5	0.3	7.3	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.59×10^{-7}
525-W	"	CW-6	0.3	7.3	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.28×10^{-7}
526-W	"	CW-7	0.3	7.3	$< 7.0 \times 10^{-10}$	0.03×10^{-7}	0.10×10^{-7}
527-W	"	CW-8	0.5	7.2	4.1×10^{-8}	0.39×10^{-7}	0.44×10^{-7}
528-W	"	DW-1	0.3	6.8	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.41×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 1/8/64

REPORT OF WATER ANALYSES

REPORT NO. 575

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
491-W	11-9-63	CW-1	0.7	7.0	3.4×10^{-8}	0.30×10^{-7}	0.35×10^{-7}
492-W	"	CW-3	0.3	7.6	2.1×10^{-9}	0.01×10^{-7}	0.35×10^{-7}
493-W	"	CW-5	0.2	7.8	$<7.0 \times 10^{-10}$	0.03×10^{-7}	0.26×10^{-7}
494-W	"	CW-6	0.2	7.6	$<7.0 \times 10^{-10}$	0.09×10^{-7}	0.15×10^{-7}
495-W	"	CW-7	0.1	7.7	$<7.0 \times 10^{-10}$	0.04×10^{-7}	0.22×10^{-7}
496-W	"	CW-8	0.3	7.4	$<7.0 \times 10^{-10}$	0.17×10^{-7}	0.20×10^{-7}
497-W	"	DW-1	0.0	6.9	$<7.0 \times 10^{-10}$	0.04×10^{-7}	0.41×10^{-7}
498-W	11-16-63	CW-1	1.0	6.7	1.4×10^{-7}	1.09×10^{-7}	1.03×10^{-7}
499-W	"	CW-3	0.3	7.1	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.38×10^{-7}
500-W	"	CW-5	0.3	7.2	$<7.0 \times 10^{-10}$	0.05×10^{-7}	0.41×10^{-7}
501-W	"	CW-6	0.2	7.2	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.25×10^{-7}
502-W	"	CW-7	0.1	7.3	$<7.0 \times 10^{-10}$	0.04×10^{-7}	0.33×10^{-7}
503-W	"	CW-8	0.3	7.2	2.1×10^{-8}	0.14×10^{-7}	0.30×10^{-7}
504-W	"	DW-1	0.0	6.8	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.42×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

SUPERVISOR T. Kwasnoski

DATE RELEASED 12/18/63

ORKS LABORATORY
PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

Neal Schultz

URANIUM MEASUREMENTS DATA

SAMPLE SUBMITTED BY

BLDG. NO.

PHONE

.QUEST NO.

CHARGE

U. M. NUMBER	DATE RECEIVED	DESCRIPTION	Np vg/g			
HPY 409	10/31/63	smelter residue	3.0			
Pu Spool 23	362 9/19/63		2.4			280 mg.

Safety and Health Physics

DATE

4-6-64

RESULTS APPROVED BY

W. S. Petit

REPORT OF WATER ANALYSES

REPORT NO. 576

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
471-W	10-26-63	CW-1	0.7	7.2	1.5×10^{-8}	0.16×10^{-7}	0.35×10^{-7}
472-W	"	CW-3	0.4	7.6	7.0×10^{-9}	0.04×10^{-7}	0.22×10^{-7}
473-W	"	CW-5	0.3	7.7	7.0×10^{-10}	0.00×10^{-7}	0.17×10^{-7}
474-W	"	CW-6	0.2	7.6	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.32×10^{-7}
475-W	"	CW-7	0.3	7.2	$<7.0 \times 10^{-10}$	0.00×10^{-7}	0.17×10^{-7}
476-W	"	CW-8	1.6	7.3	1.3×10^{-8}	0.17×10^{-7}	0.25×10^{-7}
477-W	"	DW-1	0.5	7.0	7.0×10^{-10}	0.00×10^{-7}	0.20×10^{-7}
478-W	11-2-63	CW-1	1.0	6.7	2.1×10^{-8}	0.18×10^{-7}	0.51×10^{-7}
479-W	"	CW-3	0.1	7.1	1.3×10^{-8}	0.14×10^{-7}	0.14×10^{-7}
480-W	"	CW-5	0.2	7.4	4.2×10^{-9}	0.03×10^{-7}	0.34×10^{-7}
481-W	"	CW-6	0.3	7.2	7.0×10^{-9}	0.03×10^{-7}	0.42×10^{-7}
482-W	"	CW-7	0.3	7.5	7.0×10^{-10}	0.06×10^{-7}	0.27×10^{-7}
483-W	"	CW-8	0.7	7.3	2.8×10^{-9}	0.05×10^{-7}	0.40×10^{-7}
484-W	"	DW-1	0.3	7.1	7.0×10^{-10}	0.00×10^{-7}	0.38×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

SUPERVISOR [signature]

DATE RELEASED 12/18/63

REPORT OF WATER ANALYSES

REPORT NO.__ _____

Distribution:
A. F. Becher, T. Kwasnoski, RC
C. H. Mahoney, W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
461-W	10-19-63	CW-1	0				
465-W	"	CW-7	0				
471-W	10-26-63	CW-1	28				
475-W	"	CW-7	0				
478-W	11-2-63	CW-1	12				
482-W	"	CW-7	12				
485-W	"	801-A	6				
486-W	"	901 Raw Water	0				
487-W	"	A and B K-802	0				
488-W	"	C Loop	0				
489-W	"	E Loop	0				
490-W	"	G Loop	10				
491-W	11-9-63	CW-1	22				
495-W	"	CW-7	24				

1964 FEB 12 AM 12:31
Safety and Health Physics

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR Kwasnoski DATE RELEASED 2/11/64

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

REPORT OF WATER ANALYSES

REPORT NO. 572

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
454-W	10-12-63	CW-1	0.6	6.8	3.2×10^{-8}	0.14×10^{-7}	0.45×10^{-7}
455-W	"	CW-3	1.1	7.7	5.9×10^{-8}	0.50×10^{-7}	1.25×10^{-7}
456-W	"	CW-5	0.4	7.9	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.14×10^{-7}
457-W	"	CW-6	0.3	7.4	7.0×10^{-10}	0.00×10^{-7}	0.05×10^{-7}
458-W	"	CW-7	0.5	7.5	3.5×10^{-9}	0.08×10^{-7}	0.15×10^{-7}
459-W	"	CW-8	0.9	7.2	3.7×10^{-8}	0.27×10^{-7}	0.40×10^{-7}
460-W	"	DW-1	0.3	6.9	$< 7.0 \times 10^{-10}$	0.06×10^{-7}	0.14×10^{-7}
461-W	10-19-63	CW-1	0.7	7.2	2.5×10^{-8}	0.12×10^{-7}	0.27×10^{-7}
462-W	"	CW-3	0.3	7.6	3.0×10^{-8}	0.28×10^{-7}	0.66×10^{-7}
463-W	"	CW-5	0.2	7.8	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.04×10^{-7}
464-W	"	CW-6	0.0	7.4	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.10×10^{-7}
465-W	"	CW-7	0.0	7.6	2.1×10^{-9}	0.00×10^{-7}	0.12×10^{-7}
466-W	"	CW-8	0.2	7.4	9.1×10^{-9}	0.01×10^{-7}	0.13×10^{-7}
467-W	"	DW-1	0.0	7.1	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.00×10^{-7}
468-W	10-23-63	Emory Valley Road	0.0	7.4	7.0×10^{-10}	0.05×10^{-7}	0.08×10^{-7}
469-W	"	Gauging Station	0.1	7.6	2.1×10^{-9}	0.11×10^{-7}	0.13×10^{-7}
470-W	"	Pond (South West - 1007)	0.3	8.4	4.9×10^{-9}	0.36×10^{-7}	0.81×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 11/13/63

REPORT OF WATER ANALYSES

REPORT NO. 565

Distribution:
A. F. Becher, C.H.Mahoney
W. H. Taylor, T.Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg ~~FLUORIDES~~ ppb	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
441-W	10-5-63	CW-1	0				
445-W	"	CW-7	0				
448-W	"	801-A	0				
449-W	"	802- A and B	0				
450-W	"	C-Loop	0				
451-W	"	E-Loop	0				
452-W	"	G-Loop	0				
453-W	"	901 Raw Water	0				
454-W	10-12-63	CW-1	0				
458-W	"	CW-7	0				

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 10/25/63

REPORT OF WATER ANALYSES

REPORT NO. 573

Distribution:
A. F. Becher, W.H. Taylor,
T, Kwasnoski, RC.

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
433-W	9-28-63	CW-1	0.7	7.2	3.8×10^{-8}	0.31×10^{-7}	0.48×10^{-7}
434-W	"	CW-3	0.8	7.5	1.4×10^{-8}	0.22×10^{-7}	0.68×10^{-7}
435-W	"	CW-5	0.1	7.8	7.0×10^{-10}	0.01×10^{-7}	0.14×10^{-7}
436-W	"	CW-6	0.1	7.4	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.13×10^{-7}
437-W	"	CW-7	0.1	8.0	2.1×10^{-9}	0.00×10^{-7}	0.22×10^{-7}
438-W	"	CW-8	0.3	7.5	2.1×10^{-8}	0.21×10^{-7}	0.14×10^{-7}
439-W	"	DW-1	0.1	7.3	2.8×10^{-9}	0.04×10^{-7}	0.50×10^{-7}
440-W	9-27-63	Holding Pond	23.8	3.6	3.04×10^{-5}	1.74×10^{-5}	3.47×10^{-5}
441-W	10-5-63	CW-1	0.9	6.8	3.8×10^{-8}	0.72×10^{-7}	0.61×10^{-7}
442-W	"	CW-3	0.5	7.4	2.4×10^{-8}	0.46×10^{-7}	0.68×10^{-7}
443-W	"	CW-5	0.3	7.6	3.5×10^{-9}	0.11×10^{-7}	0.23×10^{-7}
444-W	"	CW-6	0.1	7.3	2.1×10^{-9}	0.07×10^{-7}	0.28×10^{-7}
445-W	"	CW-7	0.2	8.4	7.0×10^{-10}	0.04×10^{-7}	0.28×10^{-7}
446-W	"	CW-8	0.5	7.2	1.4×10^{-8}	0.36×10^{-7}	0.45×10^{-7}
447-W	"	DW-1	0.0	7.0	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.14×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

SUPERVISOR T. Kwasnoski

DATE RELEASED 11/13/63

JCN-3252
1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 571

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
417-W	9-14-63	CW-1	0.6	7.0	5.2×10^{-8}	0.24×10^{-7}	0.57×10^{-7}
418-W	"	CW-3	0.1	7.7	9.8×10^{-9}	0.15×10^{-7}	0.67×10^{-7}
419-W	"	CW-5	0.1	7.9	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.50×10^{-7}
420-W	"	CW-6	0.1	7.5	7.0×10^{-10}	0.07×10^{-7}	0.26×10^{-7}
421-W	"	CW-7	0.4	7.8	1.4×10^{-9}	0.00×10^{-7}	0.17×10^{-7}
422-W	"	CW-8	0.7	7.4	8.4×10^{-9}	0.00×10^{-7}	0.20×10^{-7}
423-W	"	DW-1	0.0	7.0	3.5×10^{-9}	0.00×10^{-7}	0.33×10^{-7}
424-W	9-17-63	Holding Pond	4.1	3.3	1.44×10^{-6}	1.94×10^{-6}	82.89×10^{-7}
425-W	9-18-63	Holding Pond	8.6	3.7	2.22×10^{-6}	3.42×10^{-6}	149.40×10^{-7}
426-W	9-21-63	CW-1	0.7	7.6	3.4×10^{-8}	0.18×10^{-7}	0.43×10^{-7}
427-W	"	CW-3	0.9	8.1	3.1×10^{-8}	0.15×10^{-7}	0.50×10^{-7}
428-W	"	CW-5	0.4	8.0	2.1×10^{-9}	0.00×10^{-7}	0.30×10^{-7}
429-W	"	CW-6	0.6	7.5	1.1×10^{-8}	0.00×10^{-7}	0.20×10^{-7}
430-W	"	CW-7	0.1	8.0	1.5×10^{-8}	0.06×10^{-7}	0.14×10^{-7}
431-W	"	CW-8	0.7	7.3	2.2×10^{-8}	0.23×10^{-7}	0.32×10^{-7}
432-W	"	DW-1	0.5	7.5	4.2×10^{-9}	0.09×10^{-7}	0.18×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

SUPERVISOR T. Kwasnoski

DATE RELEASED 10/25/63

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PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

REPORT OF WATER ANALYSES

REPORT NO. 570

Distribution:

A. F. Becher, W. H. Taylor, T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
403-W	8-31-63	CW-1	0.0	6.2	3.2×10^{-8}	0.25×10^{-7}	0.58×10^{-7}
404-W	"	CW-3	0.0	6.4	2.3×10^{-8}	0.18×10^{-7}	0.78×10^{-7}
405-W	"	CW-5	0.3	6.6	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.37×10^{-7}
406-W	"	CW-6	0.3	6.6	7.0×10^{-10}	0.00×10^{-7}	0.29×10^{-7}
407-W	"	CW-7	0.3	6.7	1.4×10^{-9}	0.03×10^{-7}	0.29×10^{-7}
408-W	"	CW-8	0.4	6.7	2.1×10^{-9}	0.00×10^{-7}	0.58×10^{-7}
409-W	"	DW-1	0.3	6.6	2.1×10^{-9}	0.00×10^{-7}	0.25×10^{-7}
410-W	9-7-63	CW-1	0.4	6.7	2.9×10^{-8}	0.12×10^{-7}	0.45×10^{-7}
411-W	"	CW-3	0.5	7.0	1.6×10^{-8}	0.00×10^{-7}	0.55×10^{-7}
412-W	"	CW-5	0.3	7.2	7.0×10^{-10}	0.06×10^{-7}	0.39×10^{-7}
413-W	"	CW-6	0.3	7.2	4.2×10^{-9}	0.03×10^{-7}	0.36×10^{-7}
414-W	"	CW-7	0.7	7.2	4.2×10^{-9}	0.06×10^{-7}	0.41×10^{-7}
415-W	"	CW-8	0.3	7.2	2.1×10^{-9}	0.00×10^{-7}	0.31×10^{-7}
416-W	"	DW-1	0.6	6.8	1.4×10^{-9}	0.00×10^{-7}	0.22×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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DATE RELEASED 10/25/63

REPORT OF WATER ANALYSES

REPORT NO. 569

Distribution:

A. F. Becher, W. H. Taylor
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
389-W	8-17-63	CW-1	0.7	6.4	2.9×10^{-8}	0.24×10^{-7}	0.38×10^{-7}
390-W	"	CW-3	0.7	6.6	1.9×10^{-8}	0.22×10^{-7}	0.86×10^{-7}
391-W	"	CW-5	0.2	6.9	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.68×10^{-7}
392-W	"	CW-6	0.3	7.0	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.72×10^{-7}
393-W	"	CW-7	0.3	7.0	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.72×10^{-7}
394-W	"	CW-8	0.4	7.1	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.40×10^{-7}
395-W	"	DW-1	0.3	6.8	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.32×10^{-7}
396-W	8-24-63	CW-1	0.3	6.4	4.9×10^{-9}	0.04×10^{-7}	0.39×10^{-7}
397-W	"	CW-3	0.4	7.0	1.4×10^{-8}	0.20×10^{-7}	0.62×10^{-7}
398-W	"	CW-5	0.3	7.2	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.51×10^{-7}
399-W	"	CW-6	0.2	7.2	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.50×10^{-7}
400-W	"	CW-7	0.3	7.2	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.67×10^{-7}
401-W	"	CW-8	0.1	7.3	7.0×10^{-10}	0.00×10^{-7}	0.48×10^{-7}
402-W	"	DW-1	0.1	7.2	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.32×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

SUPERVISOR T. Kwasnoski

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1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 566

Distribution:
A. F. Becher, C. H. Mahoney
W. H. Taylor, T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg. ppb.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
396-W	8-24-63	CW-1	18				
400-W	"	CW-7	0				
403-W	8-31-63	CW-1	8				
407-W	"	CW-7	0				
410-W	9-7-63	CW-1	0				
414-W	"	CW-7	0				
417-W	9-14-63	CW-1	0				
421-W	"	CW-7	0				
426-W	9-21-63	CW-1	0				
430-W	"	CW-7	0				
433-W	9-28-63	CW-1	0				
437-W	"	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwasnoski

DATE RELEASED 10/25/63

UCN-3252
(1 11-61)

WETM

REPORT OF WATER ANALYSES

REPORT NO.

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	URANIUM ppm	Dis./Min./gram Sr	Dis./Min./gram Ra	Dis. per min/gram ALPHA	Dis. per min/gram BETA
379-W	8-15-63	HPX-401	5.5			43.9	1221
380-W	"	HPX-402	13.6			9.3	289
381-W	Slough	HPX-403	14.5			16.0	631
382-W	W of	HPX-404	14.1			18.7	1096
383-W	K-33	HPX-405	12.1			16.9	1147
384-W	"	HPX-406	3.1			4.7	435
385-W	"	HPX-407 K-1206F Sludge (Standpipe - bd. level)	75.9	1	2	76	5007
386-W	"	HPX-408 K-1206F Sludge (In Elevated Tanks)	50.9	0	3	83	4635
387-W	8-16-63	HPX-409 K-1206 Paint Flakes (removed by blasting)	3.5	0.3	0.7	8	199
388-W	"	HPX-410 K-1206 Sand Blast (used)	0.6	0.7	0.7	3	51
		Elevated Water Tank					

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR T. Kwasnoski

DATE RELEASED 12/18/63

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

N. B. Schultz

URANIUM MEASUREMENTS DATA

SAMPLE SUBMITTED BY

BLDG. NO.

PHONE

REQUEST NO.

CHARGE

U. M. NUMBER	DATE RECEIVED	DESCRIPTION	β dis/min /g	α ct/min g		Sr dis/min /g		Ru dis/min /g
385W	8/15/63 sludge Grand level	Mud	5,607	76		1		2
386W	8/15/63 sludge Elevated tank	"	4,635	83		0		3
387W	8/16/63 paint	"	199	8		0.3		0.7
388W	8/16/63 sand	"	51	3		0.7		0.7

[illegible]

$_{19}K^{42}$ [illegible]

= 26 × 10² d/m/cc = [illegible] d/m/[illegible]

DATE

11-5-63

RESULTS APPROVED BY

G. S. Petit

UCN-2813
(1 4-61)

URANIUM MEASUREMENTS DEPARTMENT
General Data Sheet

Sample Submitted by N. B. Schultz Bldg. No. K-1003 Phone _____

Request No. _____ Charge M-30230-C2

U.M. Number	Spool 23362		[illegible]	[illegible]	[illegible]	[illegible]
Date Received						
Description						
G.U/g. sample	0.202					
α dis./min./g. sample	220,000					
α dis./min./g. U	1,026,667	([illegible] 1.5 x 10^6 d/m/g)				
β dis./min./g. sample	841,429					
β dis./min./g. U	3,926,667	3.9/1.5 = 2.6 no [illegible] if [illegible]				

8/14/63 [illegible] sample discarded; requested 8/14/63 [illegible] another sample (a) count beta (b) recount beta in a month — is "extra" beta, daughter products of uranium or other beta emitter(s)? — Up results to come from Petit (9/24) [illegible]

Date 8-14-63 Results Approved by A R Flynn

TL 109 (5/50) NRC

REPORT OF WATER ANALYSES

REPORT NO.

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC.

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	URANIUM ppm	FLUORIDES ppm.	pH	Dis. gram per min ALPHA	BETA
350-W	8-8-63	11V Mt. Pisgah	0.0	7		1.0	161
351-W	"	12V Buttermilk Road	0.1	36		0.3	223
352-W	"	13V Lawnville	0.2	44		1.0	284
353-W	"	14V Hwy #61	0.1	0		0.8	181
354-W	"	15V Black Oak Ridge	0.0	15		1.0	135
355-W	"	11S	0.8	-		4.2	53
356-W	"	12S	1.3	-		5.4	199
357-W	"	13S	1.2	-		4.9	106
358-W	"	14S	0.8	-		4.2	123
359-W	"	15S	1.0	-		4.5	67
360-W	"	11P	0.0	3		1.0	77
361-W	"	12P	0.0	7		0.9	117
362-W	"	13P	0.1	7		1.3	207
363-W	"	14P	0.1	11		1.9	80
364-W	"	15P	0.1	2		1.2	110

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR T. Kwasnoski

DATE RELEASED 11/13/63

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

REPORT OF WATER ANALYSES

REPORT NO. 574 (cont'd.)
Distribution:

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
365-W	8-8-63	11-W ✓	0.3	5.8	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.06×10^{-7}
366-W	"	12-W ✓	0.0	6.3	2.1×10^{-9}	0.00×10^{-7}	0.15×10^{-7}
367-W	"	13-W ✓	0.3	6.7	7.0×10^{-10}	0.00×10^{-7}	0.23×10^{-7}
368-W	"	14-W ✓	0.3	7.0	7.0×10^{-10}	0.00×10^{-7}	0.28×10^{-7}
369-W	"	15-W ✓	0.1	6.9	7.0×10^{-10}	0.00×10^{-7}	0.02×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

SUPERVISOR T. Kwasnoski

DATE RELEASED 11/13/63

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:N-3252
11-61)

REPORT OF WATER ANALYSES

REPORT NO. 568

Distribution:
A. F. Becher, W. H. Taylor,
T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
337-W	8-3-63	CW-1	0.0	6.9	1.4×10^{-9}	0.09×10^{-7}	0.22×10^{-7}
338-W	"	CW-3	0.0	7.2	2.1×10^{-9}	0.09×10^{-7}	1.17×10^{-7}
339-W	"	CW-5	0.3	7.3	7.0×10^{-10}	0.07×10^{-7}	2.48×10^{-7}
340-W	"	CW-6	0.4	7.2	$< 7.0 \times 10^{-10}$	0.04×10^{-7}	2.25×10^{-7}
341-W	"	CW-7	0.3	7.2	4.2×10^{-9}	0.04×10^{-7}	2.34×10^{-7}
342-W	"	CW-8	0.7	7.2	3.2×10^{-8}	0.41×10^{-7}	0.45×10^{-7}
343-W	"	DW-1	0.3	7.0	$< 7.0 \times 10^{-10}$	0.02×10^{-7}	2.16×10^{-7}
370-W	8-10-63	CW-1	0.3	7.1	1.1×10^{-8}	0.09×10^{-7}	0.20×10^{-7}
371-W	"	CW-3	0.3	7.1	1.6×10^{-8}	0.22×10^{-7}	0.58×10^{-7}
372-W	"	CW-5	0.1	7.2	5.6×10^{-9}	0.02×10^{-7}	1.92×10^{-7}
373-W	"	CW-6	0.3	7.0	$< 7.0 \times 10^{-10}$	0.09×10^{-7}	1.08×10^{-7}
374-W	"	CW-7	0.3	7.0	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	0.63×10^{-7}
375-W	"	CW-8	0.3	7.0	7.0×10^{-10}	0.05×10^{-7}	0.22×10^{-7}
376-W	"	DW-1	0.3	6.9	$< 7.0 \times 10^{-10}$	0.07×10^{-7}	0.18×10^{-7}
377-W	8-8-63	Holding Pond ✓	8.6	2.9	6.0×10^{-6}	3.2×10^{-6}	167.40×10^{-7}
379-W	"	Same ✓	10.0	3.0	6.2×10^{-6}	1.7×10^{-6}	172.12×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

SUPERVISOR T. Kwasnoski

DATE RELEASED 10/25/63

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(1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 564

Distribution:
A. F. Becher
[redacted]
T. Kwasnoski (RC)
W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
330-W	7-27-63	CW-1	0.6	6.7	3.0×10^{-8}	0.45×10^{-7}	0.63×10^{-7}
331-W	"	CW-3	1.2	6.9	5.6×10^{-9}	0.14×10^{-7}	2.70×10^{-7}
332-W	"	CW-5	0.9	7.2	2.1×10^{-9}	0.00×10^{-7}	1.35×10^{-7}
333-W	"	CW-6	0.5	7.2	$< 7.0 \times 10^{-10}$	0.14×10^{-7}	1.30×10^{-7}
334-W	"	CW-7	0.5	7.3	7.0×10^{-10}	0.00×10^{-7}	1.66×10^{-7}
335-W	"	CW-8	0.6	7.3	$< 7.0 \times 10^{-10}$	0.05×10^{-7}	0.45×10^{-7}
336-W	"	DW-1	0.3	7.1	$< 7.0 \times 10^{-10}$	0.00×10^{-7}	2.07×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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ICN-3252
1 11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 9/6/63

REPORT OF WATER ANALYSES

REPORT NO. 567

Distribution:
A. F. Becher, C. H. Mahoney
W. H. Taylor, T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg ppb.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
323-W	7-20-63	CW-1	38				
327-W	7-20-63	CW-7	32				
330-W	7-27-63	CW-1	18				
334-W	"	CW-7	34				
337-W	8-3-63	CW-1	24				
341-W	"	CW-7	28				
344-W	8-2-63	C Loop	6				
345-W	"	E Loop	12				
346-W	"	G Loop	0				
347-W	"	801	0				
348-W	"	802 A and B	0				
349-W	"	901	0				
370-W	8-10-63	CW-1	0				
374-W	"	CW-7	0				
389-W	8-17-63	CW-1	0				
393-W	"	CW-7	0				

Calculated from uranium content assuming natural isotopic abundance.

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PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 10/25/63

REPORT OF WATER ANALYSES

REPORT NO. 562

Distribution:
A. F. Becher T. Kwasnoski (RC)
[redacted]y W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
00-W	7-6-63	CW-1	0.5	6.6	7.7×10^{-9}	0.11×10^{-7}	0.32×10^{-7}
01-W	"	CW-3	0.4	7.0	7.0×10^{-10}	0.14×10^{-7}	0.81×10^{-7}
02-W	"	CW-5	0.3	7.3	$< 7.0 \times 10^{-10}$	0.03×10^{-7}	1.12×10^{-7}
03-W	"	CW-6	0.2	7.2	$< 7.0 \times 10^{-10}$	0.10×10^{-7}	0.86×10^{-7}
04-W	"	CW-7	0.1	7.3	$< 7.0 \times 10^{-10}$	0.08×10^{-7}	0.81×10^{-7}
05-W	"	CW-8	0.3	7.3	$< 7.0 \times 10^{-10}$	0.16×10^{-7}	0.22×10^{-7}
06-W	"	DW-1	0.0	7.6	$< 7.0 \times 10^{-10}$	0.07×10^{-7}	0.18×10^{-7}
12-W	7-13-63	CW-1	0.2	6.6	3.5×10^{-9}	0.15×10^{-7}	0.18×10^{-7}
13-W	"	CW-3	0.3	6.7	5.6×10^{-9}	0.14×10^{-7}	1.53×10^{-7}
14-W	"	CW-5	0.1	6.9	$< 7.0 \times 10^{-10}$	0.04×10^{-7}	3.20×10^{-7}
15-W	"	CW-6	0.2	7.0	$< 7.0 \times 10^{-10}$	0.04×10^{-7}	1.94×10^{-7}
16-W	"	CW-7	0.2	7.1	$< 7.0 \times 10^{-10}$	0.06×10^{-7}	3.82×10^{-7}
17-W	"	CW-8	0.3	7.2	3.5×10^{-9}	0.06×10^{-7}	1.48×10^{-7}
18-W	"	DW-1	0.0	7.2	4.2×10^{-9}	0.18×10^{-7}	0.32×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
11-61)

SUPERVISOR T Kwasnoski

DATE RELEASED 9/6/63

REPORT OF WATER ANALYSES

REPORT NO. 563

Distribution:
A. F. Becher T. Kwasnoski(RC)
[redacted] W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
319-W	7-5-63	West end of Holding Pond	6.2	3.7	3.9×10^{-6}	1.1×10^{-6}	1.0×10^{-5}
320-W	7-10-63	Same	9.4	3.5	4.3×10^{-6}	2.9×10^{-6}	1.7×10^{-5}
321-W	7-12-63	Same	11.2	3.3	6.7×10^{-6}	4.8×10^{-6}	1.6×10^{-5}
322-W	7-16-63	Same	17.0	3.3	8.5×10^{-6}	7.9×10^{-6}	2.3×10^{-5}
323-W	7-20-63	CW-1	1.3	4.5	5.6×10^{-9}	0.04×10^{-7}	0.58×10^{-7}
324-W	7-20-63	CW-3	1.1	5.9	1.2×10^{-9}	0.10×10^{-7}	0.94×10^{-7}
325-W	7-20-63	CW-5	0.4	6.5	$< 7.0 \times 10^{-9}$	0.00×10^{-7}	0.94×10^{-7}
326-W	7-20-63	CW-6	0.4	6.6	1.4×10^{-9}	0.00×10^{-7}	1.08×10^{-7}
327-W	7-20-63	CW-7	0.1	6.8	3.5×10^{-9}	0.00×10^{-7}	1.27×10^{-7}
328-W	7-20-63	CW-8	0.2	6.9	4.9×10^{-9}	0.07×10^{-7}	0.76×10^{-7}
329-W	7-20-63	DW-1	0.1	6.8	2.1×10^{-9}	0.00×10^{-7}	0.68×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwasnoski

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UCN-3252
(1 11-61)

REPORT OF ~~WATER~~ ANALYSES

REPORT NO._____

Distribution: A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	URANIUM ~~ppb.~~ ppm	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
269-W	6-18-63	6-S	0.5			18.5	27
270-W	6-18-63	7-S	1.6			15.8	173
271-W	6-18-63	8-S	1.0			5.4	85
272-W	6-18-63	9-S	1.0			4.4	104
273-W	6-18-63	10S	1.4			11.5	75

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

SUPERVISOR T Kwasnoski

DATE RELEASED 8/8/63

REPORT OF WATER ANALYSES

REPORT NO. 556

Distribution:
A. F. Becher
[redacted]
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
264-W	6-18-63	6-W	0.0	6.6	$< 7 \times 10^{-10}$	$< 1 \times 10^{-8}$	5.0×10^{-9}
265-W	6-18-63	7-W	0.0	6.6	$< 7 \times 10^{-10}$	$< 1 \times 10^{-8}$	2.7×10^{-8}
266-W	6-18-63	8-W	0.2	6.8	$< 7 \times 10^{-10}$	$< 1 \times 10^{-8}$	1.4×10^{-8}
267-W	6-18-63	9-W	0.0	4.9	$< 7 \times 10^{-10}$	$< 1 \times 10^{-8}$	6.3×10^{-8}
268-W	6-18-63	10-W	0.3	6.1	$< 7 \times 10^{-10}$	$< 1 \times 10^{-8}$	1.8×10^{-8}

* *Calculated from uranium content assuming natural isotopic abundance.*

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(1 11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 8/8/63

Industrial Health Physics

REPORT OF ~~WATER~~ VEGETATION ANALYSES

REPORT NO. _____

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	URANIUM ppm	FLUORIDES ppm.	pH	Counts per min/gram	
						ALPHA	BETA
274-W	6-18-63	6V Pisgah	0.0	24		0.7	617
275-W	6-18-63	7V Buttermilk	0.0	22		1.1	416
276-W	6-18-63	8V Lawnville	0.1	24		1.3	644
277-W	6-18-63	9V Hwy. #61	0.0	20		17	550
278-W	6-18-63	10V Black Oak Ridge	0.0	15		0.5	600
279-W	6-18-63	6P	0.0	14		0.2	362
280W	6-18-63	7P	0.0	11		0.3	278
281-W	6-18-63	8P	0.0	12		0.1	388
282-W	6-18-63	9P	0.0	11		0.1	393
283-W	6-18-63	10P	0.2	7		0.1	509

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kwasnoski

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REPORT OF WATER ANALYSES

REPORT NO. 55

Distribution:
A. F. Becher
~~G. H. McKinney~~
W. H. Taylor
T. Kwasnoski (RC)

Health Physics

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
245-W	6-8-63	CW-1	0.3	6.7	4.9×10^{-8}	2.2×10^{-8}	6.8×10^{-8}
246-W	6-8-63	CW-3	0.3	6.8	2.8×10^{-8}	2.3×10^{-8}	1.5×10^{-7}
247-W	6-8-63	CW-5	0.0	7.0	2.1×10^{-9}	$< 1 \times 10^{-8}$	8.1×10^{-8}
248-W	6-8-63	CW-6	0.0	7.0	2.1×10^{-9}	$< 1 \times 10^{-8}$	1.5×10^{-7}
249-W	6-8-63	CW-7	0.8	7.1	2.1×10^{-9}	$< 1 \times 10^{-8}$	8.6×10^{-8}
250-W	6-8-63	CW-8	0.2	7.1	7.0×10^{-10}	$< 1 \times 10^{-8}$	9.0×10^{-8}
251-W	6-8-63	DW-1	0.2	7.0	7.0×10^{-10}	$< 1 \times 10^{-8}$	5.8×10^{-8}
252-W	6-8-63	DW-3	0.4	7.2	4.2×10^{-9}	1.3×10^{-8}	5.8×10^{-7}
256-W	6-15-63	CW-1	0.5	6.2	2.2×10^{-8}	3.0×10^{-8}	6.3×10^{-8}
257-W	6-15-63	CW-3 No sample					
258-W	6-15-63	CW-5	0.1	6.3	7×10^{-10}	$< 1 \times 10^{-8}$	6.8×10^{-8}
259-W	6-15-63	CW-6	0.3	6.1	$< 7 \times 10^{-10}$	$< 1 \times 10^{-8}$	6.3×10^{-8}
260-W	6-15-63	CW-7	0.1	6.5	2.8×10^{-9}	$< 1 \times 10^{-8}$	2.2×10^{-7}
261-W	6-15-63	CW-8	0.2	6.3	2.1×10^{-9}	$< 1 \times 10^{-8}$	4.5×10^{-8}
262-W	6-15-63	DW-1	0.2	6.5	1.4×10^{-9}	$< 1 \times 10^{-8}$	7.2×10^{-8}
263-W	6-15-63	DW-3 No sample					

* *Calculated from uranium content assuming natural isotopic abundance.*

SUPERVISOR T. Kwasnoski

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WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 55

Distribution:
A. F. Becher
[redacted]
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
223-W	5-25-63	CW-3	0.7	6.7	6.3×10^{-9}	2.7×10^{-8}	1.8×10^{-7}
224-W	5-25-63	CW-7	0.3	7.0	7.0×10^{-10}	1.4×10^{-8}	4.4×10^{-7}
225-W	5-25-63	DW-1	0.2	7.0	$<7.0 \times 10^{-10}$	1.1×10^{-8}	1.3×10^{-7}
226-W	5-25-63	DW-3	0.4	7.0	4.9×10^{-9}	6.8×10^{-8}	5.1×10^{-7}
229-W	6-1-63	CW-1	0.9	6.5	2.2×10^{-8}	3.4×10^{-8}	3.2×10^{-8}
230-W	6-1-63	CW-3	0.9	6.8	1.5×10^{-8}	2.6×10^{-8}	1.4×10^{-7}
231-W	6-1-63	CW-5	0.1	7.1	2.8×10^{-9}	2.1×10^{-8}	1.4×10^{-7}
232-W	6-1-63	CW-6	0.1	7.2	2.8×10^{-9}	$<1.0 \times 10^{-8}$	1.4×10^{-7}
233-W	6-1-63	CW-7	0.1	7.3	2.1×10^{-9}	1.4×10^{-8}	1.9×10^{-7}
234-W	6-1-63	CW-8	0.3	7.3	5.6×10^{-9}	$<1.0 \times 10^{-8}$	2.7×10^{-8}
235-W	6-1-63	DW-1	0.2	7.1	1.4×10^{-9}	$<1.0 \times 10^{-8}$	1.9×10^{-7}
236-W	6-1-63	DW-3	0.3	7.1	1.1×10^{-8}	1.1×10^{-8}	3.0×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
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SUPERVISOR T. Kwasnoski

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REPORT OF WATER ANALYSES

REPORT NO. 5

Distribution:

A. F. Becher
[redacted]
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
227-W	5-29-63	K-1407 B Holding Pond. (West Effluent)	14.6	3.1	3.0×10^{-6}	$4 \times 7 \times 10^{-6}$	1.94×10^{-5}
228-W	5-29-63	Drainage ditch at perimeter fence	2.8	5.5	5.8×10^{-8}	1.0×10^{-6}	4.2×10^{-6}
242-W	5-29-63	West end of Holding Pond	12.6	2.9	2.4×10^{-6}	5.3×10^{-6}	1.9×10^{-5}
243-W	5-31-63	Same	16.6	3.1	2.0×10^{-6}	6.1×10^{-6}	2.0×10^{-5}
244-W	6-4-63	Same	15.4	3.2	3.0×10^{-6}	2.9×10^{-6}	2.0×10^{-5}
253-W	6-6-63	Same	9.2	2.5	3.4×10^{-6}	6.3×10^{-6}	1.5×10^{-5}
254-W	6-11-63	Same	16.6	3.0	3.6×10^{-6}	3.6×10^{-6}	1.2×10^{-5}
255-W	6-14-63	Same	15.2	3.1	2.4×10^{-6}	6.9×10^{-6}	2.5×10^{-5}
284-W	6-19-63	Same	11.2	3.1	3.3×10^{-6}	1.6×10^{-6}	9.4×10^{-6}
292-W	6-26-63	Same	8.3	3.0	4.4×10^{-6}	2.7×10^{-6}	8.2×10^{-6}

Calculated from uranium content assuming natural isotopic abundance.

ORKS LABORATORY
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CN-3252
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SUPERVISOR T. Kwasnoski

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REPORT OF WATER ANALYSES

REPORT NO. _____

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
285-W	6-22-63	CW-1	0.7	6.1	1.7×10^{-8}	3.6×10^{-8}	7.2×10^{-8}
286-W	6-22-63	CW-3	0.7	6.4	1.8×10^{-8}	2.2×10^{-8}	7.6×10^{-8}
287-W	6-22-63	CW-5	<0.1	6.6	3.5×10^{-9}	2.2×10^{-8}	9.4×10^{-8}
288-W	6-22-63	CW-6	0.1	6.5	4.2×10^{-9}	$<1.0 \times 10^{-8}$	1.8×10^{-8}
289-W	6-22-63	CW-7	0.0	6.7	4.2×10^{-9}	1.4×10^{-8}	5.4×10^{-8}
290-W	6-22-63	CW-8	0.9	6.7	2.0×10^{-8}	3.6×10^{-8}	5.8×10^{-8}
291-W	6-22-63	DW-1	0.2	6.7	4.9×10^{-9}	$<1.0 \times 10^{-8}$	5.0×10^{-8}
293-W	6-29-63	CW-1	1.1	6.5	5.2×10^{-8}	3.2×10^{-8}	3.6×10^{-8}
294-W	6-29-63	CW-3	0.7	6.7	4.2×10^{-9}	1.8×10^{-8}	1.8×10^{-7}
295-W	6-29-63	CW-5	0.5	7.0	7.0×10^{-10}	$< 1.0 \times 10^{-8}$	6.3×10^{-8}
296-W	6-29-63	CW-6	0.5	7.0	$< 7.0 \times 10^{-10}$	$< 1.0 \times 10^{-8}$	9.0×10^{-8}
297-W	6-29-63	CW-7	0.5	7.1	7.0×10^{-10}	$< 1.0 \times 10^{-8}$	1.0×10^{-7}
298-W	6-29-63	CW-8	0.1	7.1	2.1×10^{-9}	$< 1.0 \times 10^{-8}$	5.0×10^{-8}
299-W	6-29-63	DW-1	0.4	7.1	$< 7.0 \times 10^{-10}$	$< 1.0 \times 10^{-8}$	1.5×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

Health Physics

WORKS LABORATORY
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JCN-3252
1 11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 8/8/63

REPORT OF WATER ANALYSES

REPORT NO. 55-

Distribution:
A. F. Becher W. H. Taylor
C. H. Mahoney T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	~~FLUORIDES~~ Mercury ppb ~~ppm~~	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
229-W	6-1-63	CW-1	0				
233-W	6-1-63	CW-7	0				
237-W	6-1-63	A and B	12				
238-W	6-1-63	C Loop	4				
239-W	6-1-63	E Loop	18				
240-W	6-1-63	G Loop	4				
241-W	6-1-63	901-801-A	0				
245-W	6-8-63	CW-1	8				
249-W	6-8-63	CW-7	0				
256-W	6-15-63	CW-1	0				
260-W	6-15-63	CW-7	0				

Calculated from uranium content assuming natural isotopic abundance.

SUPERVISOR T. Kwasnoski

DATE RELEASED 8/8/63

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

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1 11-61)

REPORT OF WATER ANALYSES

REPORT NO.

Distribution:
A. F. Becher
C. H. Mahoney
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ~~CHROMIUM~~ ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	Counts per min/100 ml. BETA
285-W	6-22-63	CW-1	0				
289-W	6-22-63	CW-7	0				
293-W	6-29-63	CW-1	10				
297-W	6-29-63	CW-7	0				
300-W	7-6-63	CW-1	0				
304-W	7-6-63	CW-7	0				
307-W	7-6-63	A and B Loop	0				
308-W	7-6-63	C Loop	0				
309-W	7-6-63	E Loop	0				
310-W	7-6-63	G Loop	8				
311-W	7-6-63	901 Raw Water	0				
312-W	7-13-63	CW-1	0				
316-W	7-13-63	CW-7	0				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

SUPERVISOR Kwasnoski

DATE RELEASED 8/8/63

Safety and Health Physics

REPORT OF WATER ANALYSES

REPORT NO. 55

Distribution:

A. F. Becher
[redacted]ney
W. H. Taylor
T. Kwasnoski(RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
219-W	5-20-63	HPX-450-W River Road at Emory Valley	0.0	6.3	7.0×10^{-10}	$< 1.0 \times 10^{-8}$	3.6×10^{-8}
220-W	5-20-63	HPX-451-W Scarboro Gauging Station	0.0	7.1	1.4×10^{-9}	$< 1 \times 10^{-8}$	4.5×10^{-9}
221-W	5-20-63	HPX-450-M River Road at Emory Valley			2μg/g.	3.9 cts/min/g.	103 cts/min/g.
222-W	5-20-63	HPX-451-M Scarboro Gauging Station			2μg/g.	5.6 cts/min/g.	52 cts/min/g.

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 8/8/63

REPORT OF WATER ANALYSES

REPORT NO. 51

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
212 W	5/18/63	CW-1	1.5	6.3	2.6×10^{-8}	2.7×10^{-8}	3.2×10^{-8}
213 W	"	CW-3	0.3	6.4	7.0×10^{-9}	1.8×10^{-8}	1.8×10^{-7}
214 W	"	CW-5	0.0	6.8	7.0×10^{-10}	$<1.0 \times 10^{-8}$	2.5×10^{-7}
215 W	"	CW-6	0.2	6.8	7.0×10^{-10}	$<1.0 \times 10^{-8}$	2.7×10^{-7}
216 W	"	CW-7	0.2	6.9	2.1×10^{-9}	$<1.0 \times 10^{-8}$	2.1×10^{-7}
217 W	"	CW-8	0.0	7.0	7.0×10^{-10}	$<1.0 \times 10^{-8}$	4.5×10^{-8}
218 W	"	DW-1	0.0	6.8	1.4×10^{-9}	$<1.0 \times 10^{-8}$	2.4×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

SUPERVISOR J. T. Matterson for T. Kwasnoski

DATE RELEASED July 2, 1963

URANIUM MEASUREMENTS DATA

N B SCHLTZ

SAMPLE SUBMITTED BY

BLDG. NO.

PHONE

QUEST NO.

CHARGE d/m/pm

U. M. NUMBER	DATE RECEIVED	DESCRIPTION	TOTAL Sr	TOTAL Ru	TOTAL Beta	
Copper Tube Scrap			226	3,214	19,750	
Sampled 5/16/63						
Salvage Yard						
		0.2 mr/hr beta (GM tube)				
4' long + 1" diam.						

1964 FEB 7 AM 11:30

DATE

2-4-64

RESULTS APPROVED BY

G. S. Petit.

UCN-2813
(1 5-62)

REPORT OF WATER ANALYSES

REPORT NO. 0

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc.		
					URANIUM*	ALPHA	BETA
204 W	5/11/63	CW-1	0.2	6.2	7.0×10^{-10}	$<1.0 \times 10^{-8}$	3.6×10^{-8}
205 W	"	CW-3	0.2	6.5	1.4×10^{-9}	1.0×10^{-8}	2.6×10^{-7}
206 W	"	CW-5	0.2	6.7	$<7.0 \times 10^{-10}$	1.0×10^{-8}	5.8×10^{-7}
207 W	"	CW-6	0.1	6.8	$<7.0 \times 10^{-10}$	1.0×10^{-8}	7.6×10^{-7}
208 W	"	CW-7	0.2	7.1	7.0×10^{-10}	$<1.0 \times 10^{-8}$	7.2×10^{-7}
209 W	"	CW-8	1.2	6.9	2.5×10^{-8}	1.8×10^{-8}	5.0×10^{-8}
210 W	"	DW-1	0.2	7.1	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	3.4×10^{-7}
211 W	"	DW-3	0.3	7.0	3.5×10^{-9}	1.0×10^{-8}	7.0×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

SUPERVISOR J. T. Mattern for T. Kwasnoski

DATE RELEASED July 2, 1963

REPORT OF WATER ANALYSES

REPORT NO. 46

Distribution:

A.F.Becher, W.H.Taylor
C.H.Mahoney, T.Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
191 W	5/4/63	CW-1	0				
195 W	"	CW-7	0				
199 W	5/3/63	A and B Loops	0				
200 W	5/4/63	C Loop	0				
201 W	"	E Loop	0				
202 W	"	G Loop	0				
203 W	"	901-K-27-801-A. Raw Water	0				
204 W	5/11/63	CW-1	0				
208 W	"	CW-7	0				
212 W	5/18/63	CW-1	0				
216 W	"	CW-7	0				
224 W	5/25/63	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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UCN-3252
(1 11-61)

SUPERVISOR J. T. Mottern for T. Kwasnoski

DATE RELEASED 7/2/63

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REPORT OF ~~WATER~~ ANALYSES

REPORT NO. _____

Distribution:
A.F.Becher
W.H.Taylor
T.Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	URANIUM* ppm.	~~MICROCURIES/GRAM~~ Cts/min/gram ALPHA	BETA
189 W	5/3/63	HPX-430-V	13		0.8	1.1	450

~~* Calculated from uranium content assuming natural isotopic abundance.~~

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(1 11-61)

SUPERVISOR J. T. Mottern for T. Kwasnoski

DATE RELEASED 7/2/63

REPORT OF WATER ANALYSES

REPORT NO. 9

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
188 W	5/3/63	HPX-430(W) - Burial Ground NW of K-33	0.1	7.0	7.0×10^{-10}	1.8×10^{-8}	4.5×10^{-8}
191 W	5/4/63	CW-1	0.7	6.7	1.5×10^{-8}	3.6×10^{-8}	2.7×10^{-8}
192 W	"	CW-3	0.2	6.9	2.1×10^{-9}	3.6×10^{-8}	1.1×10^{-7}
193 W	"	CW-5	0.0	7.0	$<7.0 \times 10^{-10}$	1.0×10^{-8}	1.1×10^{-6}
194 W	"	CW-6	0.0	7.1	7.0×10^{-10}	1.0×10^{-8}	5.0×10^{-7}
195 W	"	CW-7	0.0	7.2	7.0×10^{-10}	1.8×10^{-8}	6.4×10^{-7}
196 W	"	CW-8	0.1	7.3	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	1.8×10^{-8}
197 W	"	DW-1	0.0	6.9	$<7.0 \times 10^{-10}$	1.0×10^{-8}	6.1×10^{-7}
198 W	"	DW-3	0.2	7.2	2.1×10^{-9}	7.3×10^{-8}	8.8×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR J. T. Mottern for T. Kwasnoski

DATE RELEASED July 2, 1963

REPORT OF ~~W. H.~~ ANALYSES

REPORT NO. 8

Distribution:
A.F.Becher
W.H.Taylor
T.Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	URANIUM* ppm	~~MICROCURIES~~ Cts/min/gram ALPHA	BETA
190 W	5/3/63	HPX-430-S Burial Ground NW K-33			2.6	4.2	61

~~* Calculated from uranium content assuming natural isotopic abundances~~

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SUPERVISOR J. T. Mottern for T. Kwasnoski

DATE RELEASED July 2, 1963

REPORT OF WATER ANALYSES

REPORT NO. 5

Distribution:
A.F.Becher W.H.Taylor
C.H.Mahoney T.Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
110 W	2/23/63	CW-1	26				
114 W	"	CW-7	0				
94 W	3/9/63	CW-1	0				
98 W	"	CW-7	0				
102 W	3/16/63	CW-1	0				
106 W	"	CW-7	0				
148 W	3/30/63	CW-1	36				
152 W	"	CW-7	6				
156 W	4/6/63	CW-1	18				
160 W	"	CW-7	8				
164 W	4/13/63	CW-1	8				
168 W	"	CW-7	4				
172 W	4/20/63	CW-1	0				
176 W	"	CW-7	0				
180 W	4/27/63	CW-1	0				
184 W	"	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR J. T. Matterer
for T. Kwasnoski

DATE RELEASED July 2, 1963

REPORT OF WATER ANALYSES

REPORT NO. 4

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
180 W	4/27/63	CW-1	0.1	6.8	9.1×10^{-9}	1.0×10^{-8}	1.4×10^{-8}
181 W	"	CW-3	0.5	7.0	1.2×10^{-8}	2.7×10^{-8}	1.2×10^{-7}
182 W	"	CW-5	0.0	7.4	7.0×10^{-10}	1.0×10^{-8}	7.3×10^{-8}
183 W	"	CW-6	<0.1	7.5	7.0×10^{-10}	$<1.0 \times 10^{-8}$	1.1×10^{-8}
184 W	"	CW-7	<0.1	7.6	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	5.8×10^{-8}
185 W	"	CW-8	0.2	7.6	7.0×10^{-10}	1.0×10^{-8}	9.0×10^{-9}
186 W	"	DW-1	0.0	7.1	7.0×10^{-10}	1.0×10^{-8}	6.3×10^{-8}
187 W	"	DW-3	<0.1	7.3	7.0×10^{-10}	1.0×10^{-8}	1.9×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

SUPERVISOR T. Kwasnoski

DATE RELEASED May 21, 1963

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SPECIAL ANALYTICAL SERVICES DEPARTMENT

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REPORT OF WATER ANALYSES

REPORT NO. 43

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
172 W	4/20/63	CW-1	1.3	6.3	3.1×10^{-8}	3.6×10^{-8}	3.6×10^{-8}
173 W	"	CW-3	0.6	6.6	1.2×10^{-8}	3.6×10^{-8}	1.1×10^{-7}
174 W	"	CW-5	0.4	7.0	$<7.0 \times 10^{-10}$	1.0×10^{-8}	3.1×10^{-7}
175 W	"	CW-6	0.3	7.0	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	4.2×10^{-7}
176 W	"	CW-7	1.2	7.1	2.8×10^{-9}	$<1.0 \times 10^{-8}$	1.8×10^{-7}
177 W	"	CW-8	1.0	7.1	6.3×10^{-9}	1.0×10^{-8}	1.4×10^{-8}
178 W	"	DW-1	0.3	7.1	$<7.0 \times 10^{-10}$	1.0×10^{-8}	6.8×10^{-8}
179 W	"	DW-3	1.0	6.9	8.4×10^{-9}	2.7×10^{-8}	1.3×10^{-6}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwasnoski

DATE RELEASED May 21, 1963

REPORT OF WATER ANALYSES

REPORT NO. 41

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
164 W	4/13/63	CW-1	0.4	7.6	4.2×10^{-8}	3.6×10^{-8}	3.6×10^{-8}
165 W	"	CW-3	0.4	8.0	1.9×10^{-8}	3.6×10^{-8}	1.7×10^{-7}
166 W	"	CW-5	0.4	8.4	9.8×10^{-9}	$<1.0 \times 10^{-8}$	4.5×10^{-7}
167 W	"	CW-6	<0.1	8.0	2.1×10^{-9}	$<1.0 \times 10^{-8}$	1.2×10^{-7}
168 W	"	CW-7	0.1	8.3	9.1×10^{-9}	1.0×10^{-8}	2.8×10^{-7}
169 W	"	CW-8	0.0	7.9	1.4×10^{-9}	$<1.0 \times 10^{-8}$	9.0×10^{-9}
170 W	"	DW-1	0.3	7.6	4.2×10^{-9}	$<1.0 \times 10^{-8}$	2.6×10^{-7}
171 W	"	DW-3	0.1	8.0	5.6×10^{-9}	1.0×10^{-8}	5.1×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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REPORT OF WATER ANALYSES

REPORT NO. .0

Distribution:

A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
156 W	4/6/63	CW-1	0.8	6.7	1.1×10^{-7}	3.6×10^{-8}	5.4×10^{-8}
157 W	"	CW-3	1.0	6.9	2.2×10^{-8}	3.6×10^{-8}	1.5×10^{-7}
158 W	"	CW-5	0.3	7.4	5.6×10^{-9}	$<1.0 \times 10^{-8}$	2.8×10^{-7}
159 W	"	CW-6	0.3	7.3	4.9×10^{-9}	$<1.0 \times 10^{-8}$	5.4×10^{-8}
160 W	"	CW-7	0.4	7.4	4.2×10^{-9}	1.0×10^{-8}	3.1×10^{-7}
161 W	"	CW-8	1.0	7.3	8.7×10^{-8}	4.5×10^{-8}	5.4×10^{-8}
162 W	"	DW-1	0.3	7.2	7.0×10^{-10}	$<1.0 \times 10^{-8}$	2.7×10^{-7}
163 W	"	DW-3	0.3	7.2	8.4×10^{-9}	3.6×10^{-8}	3.5×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kusumoto

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REPORT OF WATER ANALYSES

REPORT NO. 5

Distribution:
A.F.Becher ✓ R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
148 W	3/30/63	CW-1	1.2	6.6	1.4×10^{-8}	2.7×10^{-8}	2.3×10^{-8}
149 W	"	CW-3	0.8	6.7	9.1×10^{-9}	1.8×10^{-8}	6.8×10^{-8}
150 W	"	CW-5	0.3	7.2	7.0×10^{-10}	$<1.0 \times 10^{-8}$	9.2×10^{-8}
151 W	"	CW-6	0.2	7.1	7.0×10^{-10}	$<1.0 \times 10^{-8}$	5.0×10^{-8}
152 W	"	CW-7	0.3	7.2	2.8×10^{-9}	$<1.0 \times 10^{-8}$	1.3×10^{-7}
153 W	"	CW-8	0.3	7.2	1.4×10^{-9}	$<1.0 \times 10^{-8}$	2.3×10^{-8}
154 W	"	DW-1	0.2	6.9	7.0×10^{-10}	$<1.0 \times 10^{-8}$	6.8×10^{-8}
155 W	"	DW-3	0.7	7.0	7.0×10^{-10}	1.0×10^{-8}	1.5×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwoonshi

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REPORT OF WATER ANALYSES

REPORT NO. 56

Distribution:

A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
143 W	3/27/63	1 W	0.8	7.3	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	3.6×10^{-8}
144 W	"	2 W	0.8	7.0	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	2.7×10^{-8}
145 W	"	3 W	1.6	7.2	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	$<4.5 \times 10^{-9}$
146 W	"	4 W	0.4	7.4	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	1.8×10^{-8}
147 W	"	5 W	0.4	7.3	2.1×10^{-9}	$<1.0 \times 10^{-8}$	2.3×10^{-8}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwasnoski

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REPORT OF ~~WATER~~ ANALYSES

REPORT NO. 8

Distribution:

A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	URANIUM*, ppm.	~~MICROCURIES/GRAM~~ Counts/min/gram ALPHA	BETA
128 W	3/27/63	1 P	18		0.0	0.2	231
129 W	"	2 P	22		0.0	0.4	323
130 W	"	3 P	23		0.0	0.3	336
131 W	"	4 P	10		1.0	0.9	306
132 W	"	5 P	17		0.6	0.6	731

~~*. Calculated from uranium content assuming natural isotopic abundance.~~

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SUPERVISOR T. Kuroda

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REPORT OF ~~WATER~~ ANALYSES

REPORT NO. 37

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	URANIUM ~~ppb.~~ ppm	FLUORIDES ppm.	pH	Counts per min/~~100 ml~~ gram ALPHA	BETA
133 W	3/27/63	1 V Mt. Pisgah	0.6	23		0.8	446
134 W	"	2 V Buttermilk	0.2	22		0.3	233
135 W	"	3 V Lawnville	0.2	19		0.8	221
136 W	"	4 V Hwy. 61.	0.7	28		1.3	328
137 W	"	5 V Black Oak Ridge	0.2	30		0.8	271

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
Laboratory Central Files K25RC
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kusunoki

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REPORT OF ~~XXXXXX~~ GR ANALYSES

REPORT NO. 539

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	URANIUM*, ppm	~~XXXXXXXXXXXXXXX~~ Counts/min/gram ALPHA	BETA
123 W	3/27/63	HPX-401 V, K-1131 (50' NE)	507		9.4	6.2	1026
124 W	"	HPX-402 V, K-33 (100' W)	154		0.7	0.2	557
125 W	"	HPX-403 V, K-25 - Guard Tower North Fence	53		0.0	0.9	502
126 W	"	HPX-404 V, K-1420 (100' NE)	24		9.9	23.4	563
127 W	"	HPX-405 V, K-1045 - Guard Tower South Fence	42		0.0	0.8	417

~~Calculated from uranium content assuming natural isotopic abundance.~~

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SUPERVISOR T. Kuzanoshi

DATE RELEASED 4/17/63

REPORT OF WATER ANALYSES

REPORT NO. 542

Distribution:
A. F. Becher
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	URANIUM*, ppm	Counts/min/[redacted] ALPHA	BETA
118 W	3/27/63	HPX-401S - K-1131 (50' NE)			296	300	975
119 W	"	HPX-402S - K-33 (100' W)			21	27	110
120 W	"	HPX-403S - K-25 Guard Tower, North Fence			5	12	120
121 W	"	HPX-404S - K-1420 (100' NE)			28	83	240
122 W	"	HPX-405S - K-1045C Guard Tower, South Fence			5	11	214
138 W	"	1 S Mt Lookout			1	5	53
139 W	"	2 S Buttermilk Rd			1	4	62
140 W	"	3 S Lawrenville			2	14	82
141 W	"	4 S Little Emory @ Hwy 61			2	5	217
142 W	"	5 S Black Oak Ridge			2	4	84

~~*Calculated from uranium content assuming natural isotopic abundance.~~

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SUPERVISOR T. Kwasnoski

DATE RELEASED May 21, 1963

REPORT OF WATER ANALYSES

REPORT NO. 4

Distribution:

A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
102 W	3/13/63	CW-1	0.3	6.6	4.8×10^{-8}	3.6×10^{-8}	4.5×10^{-8}
103 W	"	CW-3	0.3	6.8	3.5×10^{-9}	1.0×10^{-8}	4.5×10^{-7}
104 W	"	CW-5	0.2	7.1	7.0×10^{-10}	$<1.0 \times 10^{-8}$	2.2×10^{-7}
105 W	"	CW-6	0.3	7.1	7.0×10^{-10}	$<1.0 \times 10^{-8}$	4.2×10^{-7}
106 W	"	CW-7	0.4	7.3	2.1×10^{-9}	1.0×10^{-8}	2.2×10^{-7}
107 W	"	CW-8	0.1	7.3	2.1×10^{-9}	$<1.0 \times 10^{-8}$	4.1×10^{-8}
108 W	"	DW-1	0.1	7.0	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	2.3×10^{-8}
109 W	"	DW-3	0.2	7.0	2.1×10^{-9}	$<1.0 \times 10^{-8}$	2.3×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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SUPERVISOR T. Kuroiwa

DATE RELEASED April 9, 1963

REPORT OF WATER ANALYSES

REPORT NO. 33

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
94 W	3/9/63	CW-1	0.8	6.5	1.1×10^{-8}	1.0×10^{-8}	9.2×10^{-7}
95 W	"	CW-3	0.4	6.7	4.2×10^{-9}	1.8×10^{-8}	5.4×10^{-8}
96 W	"	CW-5	0.5	7.0	7.0×10^{-10}	1.0×10^{-8}	5.5×10^{-7}
97 W	"	CW-6	0.2	6.9	7.0×10^{-10}	1.0×10^{-8}	4.1×10^{-7}
98 W	"	CW-7	0.5	7.1	3.5×10^{-9}	1.8×10^{-8}	7.3×10^{-8}
99 W	"	CW-8	0.3	7.1	7.0×10^{-10}	1.0×10^{-8}	7.3×10^{-8}
100 W	"	DW-1	0.1	6.7	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	4.5×10^{-7}
101 W	"	DW-3	0.5	7.0	1.7×10^{-8}	2.7×10^{-8}	8.2×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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(1 11-61)

SUPERVISOR T. Kurosaki

DATE RELEASED April 9, 1963

REPORT OF WATER ANALYSES

REPORT NO. 0

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
81 W	3/2/63	CW-1	0.1	7.1	9.1×10^{-8}	4.5×10^{-8}	5.0×10^{-8}
82 W	"	CW-3	0.8	6.3	9.8×10^{-9}	2.7×10^{-8}	1.4×10^{-7}
83 W	"	CW-5	0.9	7.6	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	2.5×10^{-7}
84 W	"	CW-6	0.5	6.4	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	2.6×10^{-7}
85 W	"	CW-7	0.5	7.1	2.1×10^{-9}	$<1.0 \times 10^{-8}$	2.0×10^{-7}
86 W	"	CW-8	0.5	7.5	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	1.8×10^{-8}
87 W	"	DW-1	0.4	6.4	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	2.9×10^{-7}
88 W	"	DW-3	0.6	7.1	1.4×10^{-9}	$<1.0 \times 10^{-8}$	2.6×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kuroosaki

DATE RELEASED 3/20/63

UCN-3252
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URANIUM MEASUREMENTS DATA

N. B. SCHULTZ

SAMPLE SUBMITTED BY	BLDG. NO.	PHONE

REQUEST NO.	CHARGE

U. M. NUMBER	DATE RECEIVED	DESCRIPTION		Sr d/m/g		Ru d/m/g		Total Beta d/m/g
1206 F	Elevated	Water Sludge		38		217		1117

DATE	RESULTS APPROVED BY
3-1-63	G. S. Petit

REPORT OF WATER ANALYSES

REPORT NO. 52

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
110 W	2/23/63	CW-1	0.1	6.5	1.3×10^{-8}	1.8×10^{-8}	2.3×10^{-8}
111 W	"	CW-3	0.1	6.8	$<7.0 \times 10^{-10}$	1.0×10^{-8}	5.0×10^{-8}
112 W	"	CW-5	0.0	7.5	$<7.0 \times 10^{-10}$	1.0×10^{-8}	9.9×10^{-8}
113 W	"	CW-6	0.0	7.4	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	4.1×10^{-8}
114 W	"	CW-7	0.0	7.4	7.0×10^{-10}	1.0×10^{-8}	5.8×10^{-8}
115 W	"	CW-8	0.0	7.5	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	$<4.5 \times 10^{-9}$
116 W	"	DW-1	0.1	7.0	$<7.0 \times 10^{-10}$	1.0×10^{-8}	5.4×10^{-8}
117 W	"	DW-3	0.2	7.1	1.8×10^{-8}	1.8×10^{-8}	2.3×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
SPECIAL ANALYTICAL SERVICES DEPARTMENT

JCN-3252
1 11-61)

SUPERVISOR T. Kusumoto

DATE RELEASED April 9, 1963

REPORT OF WATER ANALYSES

REPORT NO. 29

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
73 W	2/23/63	CW-1	1.6	6.6	1.7×10^{-8}	1.8×10^{-8}	$<4.5 \times 10^{-9}$
74 W	"	CW-3	0.2	6.7	9.1×10^{-9}	1.0×10^{-8}	$<4.5 \times 10^{-9}$
75 W	"	CW-5	0.0	7.4	4.9×10^{-9}	$<1.0 \times 10^{-8}$	2.9×10^{-7}
76 W	"	CW-6	0.0	7.3	7.0×10^{-9}	$<1.0 \times 10^{-8}$	2.8×10^{-7}
77 W	"	CW-7	0.3	7.6	8.4×10^{-9}	1.0×10^{-8}	7.7×10^{-8}
78 W	"	CW-8	0.0	7.6	4.2×10^{-9}	$<1.0 \times 10^{-8}$	$<4.5 \times 10^{-9}$
79 W	"	DW-1	0.2	7.2	1.1×10^{-8}	$<1.0 \times 10^{-8}$	2.6×10^{-7}
80 W	"	DW-3	0.0	7.3	8.4×10^{-9}	$<1.0 \times 10^{-8}$	4.7×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwasnoski

DATE RELEASED 3/20/63

JCN-3252
1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 527

Distribution:

A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
65 W	2/17/63	CW-1	0.2	6.7	2.3×10^{-8}	1.8×10^{-8}	2.7×10^{-8}
66 W	"	CW-3	0.2	6.1	7.0×10^{-9}	1.0×10^{-8}	5.4×10^{-8}
67 W	"	CW-5	0.4	7.2	$<7.0 \times 10^{-10}$	1.0×10^{-8}	5.0×10^{-7}
68 W	"	CW-6	0.3	7.1	7.0×10^{-10}	$<1.0 \times 10^{-8}$	5.9×10^{-7}
69 W	"	CW-7	0.3	7.4	2.2×10^{-8}	$<1.0 \times 10^{-8}$	1.2×10^{-7}
70 W	"	CW-8	0.7	7.0	$<7.0 \times 10^{-9}$	1.0×10^{-8}	4.1×10^{-8}
71 W	"	DW-1	0.0	6.8	7.0×10^{-9}	$<1.0 \times 10^{-8}$	1.9×10^{-7}
72 W	"	DW-3	0.6	7.1	1.4×10^{-9}	1.0×10^{-8}	3.4×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

WORKS LABORATORY
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UCN-3252
(1 11-61)

SUPERVISOR T. Kuwanoshi

DATE RELEASED 3/14/63

REPORT OF WATER ANALYSES

REPORT NO. 528

Distribution:
A.F.Becher W.H.Taylor T.C.Whitson (RC)
C.H.Mahoney R.A.Walker

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
51 W	2/9/63	CW-1	0				
55 W	"	CW-7	0				
65 W	2/17/63	CW-1	0				
69 W	"	CW-7	0				
73 W	2/23/63	CW-1	0				
77 W	"	CW-7	0				
81 W	3/2/63	CW-1	0				
85 W	"	CW-7	10				
89 W	"	A and B Loop K-802	0				
90 W	"	C-Loop	0				
91 W	"	E-Loop	0				
92 W	"	G-Loop	0				
93 W	"	801-A	0				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
~~Laboratory Control Files K25RC~~
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kwoonoshi

DATE RELEASED 3/20/63

REPORT OF ~~WATER~~ D ANALYSES

REPORT NO. 1

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	URANIUM ~~xxx~~ppm.	FLUORIDES ppm.	pH	Counts per min/~~xxxxxx~~gram ALPHA	BETA
59 W	2/9/63	MM-1	152			114	471
60 W	"	MM-2	592			1905	3638
61 W	"	MM-3	28			77	363
62 W	"	MM-5	38			47	231
63 W	"	MM-6	8			15	187
64 W	"	MM-8	14			26	289

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
~~Laboratory Control Files K25RC~~
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kwasnoski

DATE RELEASED 3/29/63

REPORT OF WATER ANALYSES

REPORT NO. 26

Distribution:

A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
51 W	2/9/63	CW-1	0.9	6.9	1.4×10^{-7}	4.5×10^{-8}	3.6×10^{-8}
52 W	"	CW-3	0.4	7.1	2.7×10^{-8}	1.8×10^{-8}	3.6×10^{-8}
53 W	"	CW-5	0.3	7.2	4.9×10^{-9}	$<1.0 \times 10^{-8}$	6.4×10^{-7}
54 W	"	CW-6	0.3	7.2	1.4×10^{-9}	$<1.0 \times 10^{-8}$	6.3×10^{-7}
55 W	"	CW-7	0.2	7.4	3.5×10^{-9}	$<1.0 \times 10^{-8}$	2.9×10^{-7}
56 W	"	CW-8	0.2	7.4	7.0×10^{-10}	1.0×10^{-8}	$<4.5 \times 10^{-9}$
57 W	"	DW-1	0.5	7.1	1.4×10^{-9}	$<1.0 \times 10^{-8}$	6.6×10^{-7}
58 W	"	DW-3	0.6	7.1	1.4×10^{-9}	$<1.0 \times 10^{-8}$	6.9×10^{-7}

* *Calculated from uranium content assuming natural isotopic abundance.*

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(1 11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 3/14/63

REPORT OF WATER ANALYSES

REPORT NO. 524

Distribution:
A.F.Becher W.H.Taylor T.C.Whitson (RC)
C.H.Mahoney R.A.Walker

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
32 W	2/2/63	CW-1	0				
36 W	"	CW-7	0				
40 W	"	A and B Loop	2				
41 W	"	C-Loop	0				
42 W	"	E-Loop	0				
43 W	"	G-Loop	0				
44 W	"	901 Make-up	0				
45 W	"	A and B 801-A	0				
46 W	"	K-801-A A and B Make-up	10				
47 W	"	K-802 A and B Loop	0				
48 W	"	C-Loop	0				
49 W	"	E-Loop	2				
50 W	"	G-Loop	6				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
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Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kusanoshi

DATE RELEASED 2/13/63

REPORT OF WATER ANALYSES

REPORT NO. -5

Distribution:
A.F.Becher R.A.Walker
W.H.Taylor T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
32 W	2/2/63	CW-1	0.8	6.7	4.4×10^{-8}	3.6×10^{-8}	1.3×10^{-7}
33 W	"	CW-3	0.5	6.9	1.1×10^{-8}	1.0×10^{-8}	8.5×10^{-8}
34 W	"	CW-5	0.2	7.4	2.8×10^{-9}	$<1.0 \times 10^{-8}$	4.1×10^{-7}
35 W	"	CW-6	0.3	7.4	1.4×10^{-9}	$<1.0 \times 10^{-8}$	1.1×10^{-7}
36 W	"	CW-7	1.0	7.4	5.6×10^{-9}	$<1.0 \times 10^{-8}$	2.3×10^{-7}
37 W	"	CW-8	0.5	7.3	2.1×10^{-9}	$<1.0 \times 10^{-8}$	2.6×10^{-8}
38 W	"	DW-1	0.2	6.9	1.4×10^{-9}	$<1.0 \times 10^{-8}$	2.5×10^{-7}
39 W	"	DW-3	0.3	7.2	5.6×10^{-9}	$<1.0 \times 10^{-8}$	4.4×10^{-7}

* Calculated from uranium content assuming natural isotopic abundance.

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JCN-3252
(1 11-61)

SUPERVISOR T. Kwasnoski

DATE RELEASED 2/19/63

REPORT OF WATER ANALYSES

REPORT NO. -2

Distribution:
A. F. Becher R. A. Walker
W. H. Taylor T. C. Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
25 W	1/26/63	CW-1	0.3	6.1	5.9×10^{-8}	6.3×10^{-8}	1.1×10^{-7}
26 W	"	CW-3	0.3	6.2	1.8×10^{-8}	2.7×10^{-8}	9.9×10^{-8}
27 W	"	CW-5	0.0	6.8	1.4×10^{-9}	1.0×10^{-8}	7.6×10^{-7}
28 W	"	CW-6	0.2	6.8	1.4×10^{-9}	1.0×10^{-8}	6.9×10^{-7}
29 W	"	CW-7	0.3	7.1	5.6×10^{-9}	$<1.0 \times 10^{-8}$	2.5×10^{-7}
30 W	"	DW-1	0.2	6.9	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	3.1×10^{-7}
31 W	"	DW-3	0.4	6.8	1.4×10^{-8}	2.7×10^{-8}	6.6×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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:N-3252
11-61)

SUPERVISOR T. Kuroda

DATE RELEASED 2/13/63

REPORT OF WATER ANALYSES

REPORT NO. 1

Distribution:
A.F.Becher
W.H.Taylor
R.A.Walker
T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
17 W	1/19/63	CW-1	0.9	6.6	2.9×10^{-8}	5.4×10^{-8}	5.4×10^{-7}
18 W	"	CW-3	0.5	6.8	4.3×10^{-8}	1.8×10^{-8}	8.5×10^{-8}
19 W	"	CW-5	0.3	7.4	2.1×10^{-9}	$<1.0 \times 10^{-8}$	3.3×10^{-7}
20 W	"	CW-6	0.3	7.4	7.0×10^{-10}	$<1.0 \times 10^{-8}$	1.8×10^{-7}
21 W	"	CW-7	0.3	7.2	2.8×10^{-9}	$<1.0 \times 10^{-8}$	1.7×10^{-7}
22 W	"	CW-8	0.5	7.4	7.0×10^{-10}	$<1.0 \times 10^{-8}$	2.7×10^{-8}
23 W	"	DW-1	0.3	6.9	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	1.2×10^{-7}
24 W	"	DW-3	0.6	7.2	2.1×10^{-9}	$<1.0 \times 10^{-8}$	2.8×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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11-61)

SUPERVISOR T. Kwanoshi

DATE RELEASED 2/11/63

REPORT OF WATER ANALYSES

REPORT NO. 20

Distribution:
A.F.Becher
W.H.Taylor
R.A.Walker
T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
9 W	1/14/63	CW-1	1.7	6.9	2.5×10^{-8}	2.7×10^{-8}	7.9×10^{-8}
10 W	"	CW-3	1.3	7.1	1.9×10^{-8}	3.6×10^{-8}	1.2×10^{-7}
11 W	"	CW-5	0.4	7.5	7.0×10^{-10}	$<1.0 \times 10^{-8}$	4.8×10^{-7}
12 W	"	CW-6	0.3	7.3	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	2.2×10^{-7}
13 W	"	CW-7	0.5	7.5	2.8×10^{-9}	$<1.0 \times 10^{-8}$	2.8×10^{-7}
14 W	"	CW-8	0.9	7.5	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	5.0×10^{-8}
15 W	"	DW-1	0.3	7.2	$<7.0 \times 10^{-10}$	$<1.0 \times 10^{-8}$	1.4×10^{-7}
16 W	"	DW-3	0.6	7.4	7.0×10^{-10}	$<1.0 \times 10^{-8}$	3.8×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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ECIAL ANALYTICAL SERVICES DEPARTMENT

N-3252
11-61)

SUPERVISOR T. Kwasovski

DATE RELEASED 1/31/63

REPORT NO. 3

REPORT OF WATER ANALYSES

Distribution:
A.F.Becher W.H.Taylor T.C.Whitson (RC)
C.H.Mahoney R.A.Walker

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	Counts per min/100 ml. BETA
1 W	1/5/63	CW-1	0				
5 W	"	CW-7	0				
9 W	1/14/63	CW-1	0				
13 W	"	CW-7	0				
17 W	1/19/63	CW-1	8				
21 W	"	CW-7	0				
25 W	1/26/63	CW-1	12				
29 W	"	CW-7	8				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR T. Kwasowski

DATE RELEASED 2/13/63

WCX-1012 (8-55)
~~Laboratory Central Files K25RG~~
Works Laboratory Department
Special Analysis Section

REPORT OF WATER ANALYSES

REPORT NO. 19

Distribution:
A.F.Becher
W.H.Taylor
R.A.Walker
T.C.Whitson (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	FLUORIDES ppm.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
1 W	1/5/63	CW-1	0.8	6.8	6.5×10^{-8}	3.6×10^{-8}	5.0×10^{-8}
2 W	"	CW-3	0.7	6.7	1.4×10^{-8}	1.0×10^{-8}	7.9×10^{-8}
3 W	"	CW-5	0.3	7.2	7.0×10^{-10}	1.0×10^{-8}	3.4×10^{-7}
4 W	"	CW-6	0.4	7.1	1.4×10^{-8}	$<1.0 \times 10^{-8}$	1.2×10^{-6}
5 W	"	CW-7	0.4	7.3	7.0×10^{-10}	$<1.0 \times 10^{-8}$	2.8×10^{-7}
6 W	"	CW-8	0.4	7.0	7.0×10^{-10}	1.0×10^{-8}	2.7×10^{-8}
7 W	"	DW-1	0.7	6.8	3.5×10^{-9}	$<1.0 \times 10^{-8}$	3.3×10^{-7}
8 W	"	DW-3	0.7	6.8	3.5×10^{-9}	1.0×10^{-8}	7.1×10^{-7}

Calculated from uranium content assuming natural isotopic abundance.

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PECIAL ANALYTICAL SERVICES DEPARTMENT

CN-3252
(11-61)

SUPERVISOR T. Kusunoki

DATE RELEASED 1/29/63

ONLY
CW1 + CW7
DATA

K-25 DRAINAGE AREA

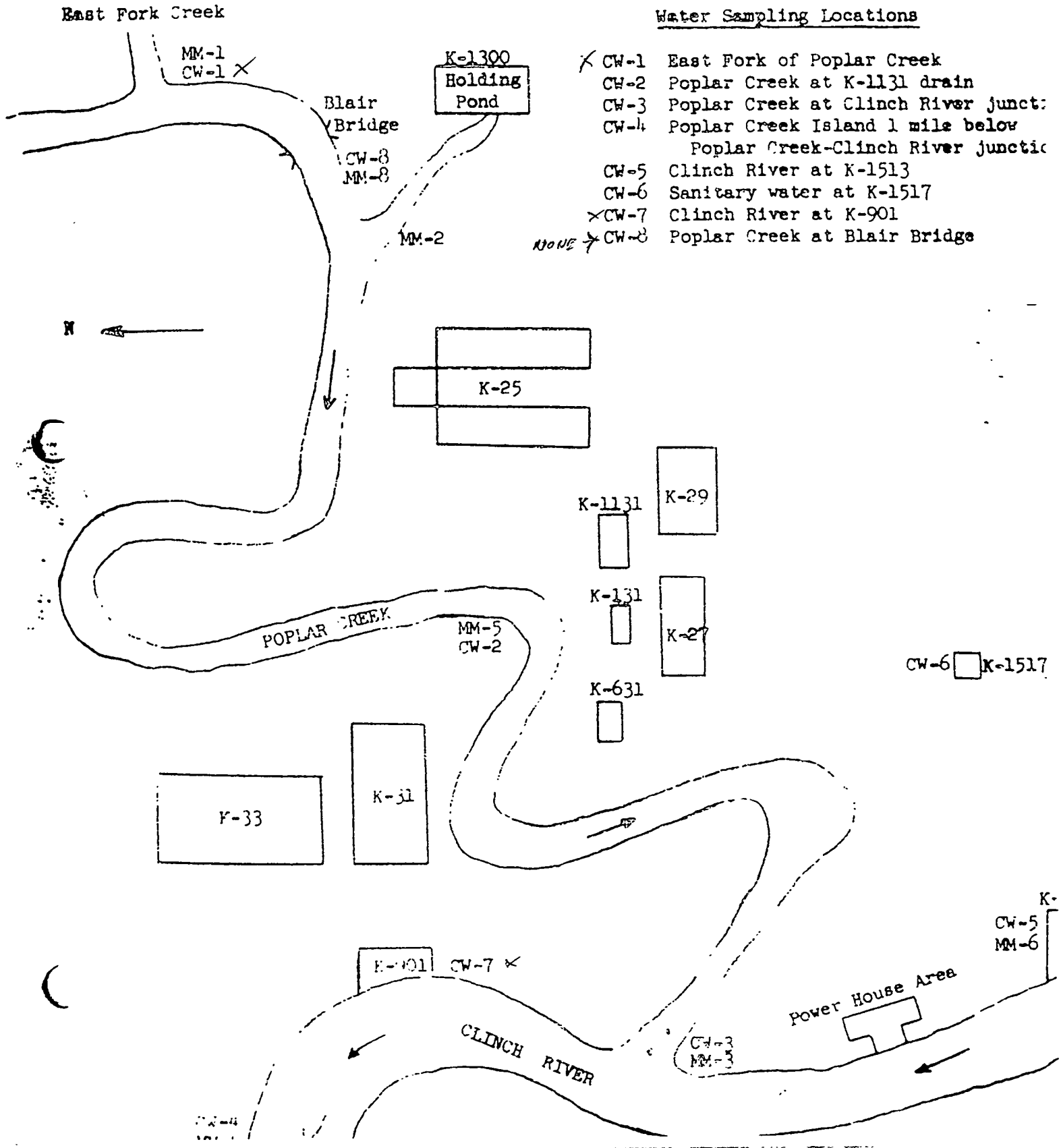
Document #1899

Mud Sampling Locations

MM-1 East fork at Poplar Creek junction
MM-2 K-1300 Holding Pond drain at Poplar Creek
MM-3 Poplar Creek at Clinch River junction
MM-4 Clinch River 1 mile below the Poplar Creek junction
MM-5 Poplar Creek at the K-27 area drain
MM-6 Clinch River at K-1513
MM-7 Sludge from Sewage Disposal Plant
MM-8 Poplar Creek at Blair Bridge

Water Sampling Locations

CW-1 East Fork of Poplar Creek
CW-2 Poplar Creek at K-1131 drain
CW-3 Poplar Creek at Clinch River junct
CW-4 Poplar Creek Island 1 mile below Poplar Creek-Clinch River junctio
CW-5 Clinch River at K-1513
CW-6 Sanitary water at K-1517
CW-7 Clinch River at K-901
NONE CW-8 Poplar Creek at Blair Bridge



REPORT OF WATER ANALYSES

REPORT NO. 2

Distribution:
A.F.Becher W.H.Taylor T.C.Whitson (RC)
C.H.Mahoney R.A.Walker

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	~~Mercury~~ ~~XXXXXX~~ ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
1 W	1/5/63	CW-1	0				
5 W	"	CW-7	0				
9 W	1/14/63	CW-1	0				
13 W	"	CW-7	0				
17 W	1/19/63	CW-1	8				
21 W	"	CW-7	0				
25 W	1/26/63	CW-1	12				
29 W	"	CW-7	8				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
~~Laboratory Central Files K25RG~~
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kwasowski

DATE RELEASED 2/13/63

REPORT OF WATER ANALYSES

REPORT NO. 524

Distribution:
A.F.Becher W.H.Taylor T.C.Whitson (RC)
C.H.Mahoney R.A.Walker

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
32 W	2/2/63	CW-1	0				
36 W	"	CW-7	0				
40 W	"	A and B Loop	2				
41 W	"	C-Loop	0				
42 W	"	E-Loop	0				
43 W	"	G-Loop	0				
44 W	"	901 Make-up	0				
45 W	"	A and B 801-A	0				
46 W	"	K-801-A A and B Make-up	10				
47 W	"	K-802 A and B Loop	0				
48 W	"	C-Loop	0				
49 W	"	E-Loop	2				
50 W	"	G-Loop	6				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
~~Laboratory Central Files K25RC~~
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kosonsohi

DATE RELEASED 2/13/63

REPORT OF WATER ANALYSES

REPORT NO.

Distribution:
A.F.Becher W.H.Taylor T.C.Whitson (RC)
C.H.Mahoney R.A.Walker

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	BETA
51 W	2/9/63	CW-1	0				
55 W	"	CW-7	0				
65 W	2/17/63	CW-1	0				
69 W	"	CW-7	0				
73 W	2/23/63	CW-1	0				
77 W	"	CW-7	0				
81 W	3/2/63	CW-1	0				
85 W	"	CW-7	10				
89 W	"	A and B Loop K-802	0				
90 W	"	C-Loop	0				
91 W	"	E-Loop	0				
92 W	"	G-Loop	0				
93 W	"	801-A	0				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

WCX-1012 (8-55)
~~Laboratory Central Files K25RC~~
Works Laboratory Department
Special Analysis Section

SUPERVISOR T. Kwoosoki

DATE RELEASED 3/20/63

REPORT OF WATER ANALYSES

REPORT NO. 5

Distribution:
A.F.Becher W.H.Taylor
C.H.Mahoney T.Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
110 W	2/23/63	CW-1	26				
114 W	"	CW-7	0				
94 W	3/9/63	CW-1	0				
98 W	"	CW-7	0				
102 W	3/16/63	CW-1	0				
106 W	"	CW-7	0				
148 W	3/30/63	CW-1	36				
152 W	"	CW-7	6				
156 W	4/6/63	CW-1	18				
160 W	"	CW-7	8				
164 W	4/13/63	CW-1	8				
168 W	"	CW-7	4				
172 W	4/20/63	CW-1	0				
176 W	"	CW-7	0				
180 W	4/27/63	CW-1	0				
184 W	"	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

SUPERVISOR J. T. Matthews for T. Kwasnoski

DATE RELEASED July 2, 1963

REPORT OF WATER ANALYSES

REPORT NO. 46

Distribution:

A.F.Becher, W.H.Taylor
C.H.Mahoney, T.Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
191 W	5/4/63	CW-1	0				
195 W	"	CW-7	0				
199 W	5/3/63	A and B Loops	0				
200 W	5/4/63	C Loop	0				
201 W	"	E Loop	0				
202 W	"	G Loop	0				
203 W	"	901-K-27-801-A. Raw Water	0				
204 W	5/11/63	CW-1	0				
208 W	"	CW-7	0				
212 W	5/18/63	CW-1	0				
216 W	"	CW-7	0				
224 W	5/25/63	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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UCN-3252
(1 11-61)

SUPERVISOR J. T. Mottern for T. Kwasnoski

DATE RELEASED 7/2/63

REPORT OF WATER ANALYSES

REPORT NO. 55

Distribution:
A. F. Becher
C. H. Mahoney
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ~~FLUORIDES~~ ppb ~~xxx~~	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
229-W	6-1-63	CW-1	0				
233-W	6-1-63	CW-7	0				
237-W	6-1-63	A and B	12				
238-W	6-1-63	C Loop	4				
239-W	6-1-63	E Loop	18				
240-W	6-1-63	G Loop	4				
241-W	6-1-63	901-801-A	0				
245-W	6-8-63	CW-1	8				
249-W	6-8-63	CW-7	0				
256-W	6-15-63	CW-1	0				
260-W	6-15-63	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

SUPERVISOR T. Kwasnoski

DATE RELEASED 8/8/63

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SPECIAL ANALYTICAL SERVICES DEPARTMENT

UCN-3252
(1 11-61)

REPORT OF WATER ANALYSES

REPORT NO. 2

Distribution:
A. F. Becher
C. H. Mahoney
W. H. Taylor
T. Kwasnoski (RC)

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Mercury ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	Counts per min/100 ml. BETA
285-W	6-22-63	CW-1	0				
289-W	6-22-63	CW-7	0				
293-W	6-29-63	CW-1	10				
297-W	6-29-63	CW-7	0				
300-W	7-6-63	CW-1	0				
304-W	7-6-63	CW-7	0				
307-W	7-6-63	A and B Loop	0				
308-W	7-6-63	C Loop	0				
309-W	7-6-63	E Loop	0				
310-W	7-6-63	G Loop	8				
311-W	7-6-63	901 Raw Water	0				
312-W	7-13-63	CW-1	0				
316-W	7-13-63	CW-7	0				

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

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Works Laboratory Department
Special Analy Section

SUPERVISOR T. Kwasnoski

DATE RELEASED 8/8/63

Safety and Health Physics

REPORT OF WATER ANALYSES

REPORT NO. 567

Distribution:
A. F. Becher, C. H. Mahoney
W. H. Taylor, T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg ppb.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
323-W	7-20-63	CW-1	38				
327-W	7-20-63	CW-7	32				
330-W	7-27-63	CW-1	18				
334-W	"	CW-7	34				
337-W	8-3-63	CW-1	24				
341-W	"	CW-7	28				
344-W	8-2-63	C Loop	6				
345-W	"	E Loop	12				
346-W	"	G Loop	0				
347-W	"	801	0				
348-W	"	802 A and B	0				
349-W	"	901	0				
370-W	8-10-63	CW-1	0				
374-W	"	CW-7	0				
389-W	8-17-63	CW-1	0				
393-W	"	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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SUPERVISOR T. Kwasnoski

DATE RELEASED 10/25/63

REPORT OF WATER ANALYSES

REPORT NO. 566

Distribution:
A. F. Becher, C. H. Mahoney
W. H. Taylor, T. Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg. ppb.	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
396-W	8-24-63	CW-1	18				
400-W	"	CW-7	0				
403-W	8-31-63	CW-1	8				
407-W	"	CW-7	0				
410-W	9-7-63	CW-1	0				
414-W	"	CW-7	0				
417-W	9-14-63	CW-1	0				
421-W	"	CW-7	0				
426-W	9-21-63	CW-1	0				
430-W	"	CW-7	0				
433-W	9-28-63	CW-1	0				
437-W	"	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

SUPERVISOR T. Kwasnoski

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REPORT OF WATER ANALYSES

REPORT NO. 565

Distribution:
A. F. Becher, C.H.Mahoney
W. H. Taylor, T.Kwasnoski, RC

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	~~FLUORIDES~~ Hg ppb	pH	MICROCURIES / cc. URANIUM*	ALPHA	BETA
441-W	10-5-63	CW-1	0				
445-W	"	CW-7	0				
448-W	"	801-A	0				
449-W	"	802- A and B	0				
450-W	"	C-Loop	0				
451-W	"	E-Loop	0				
452-W	"	G-Loop	0				
453-W	"	901 Raw Water	0				
454-W	10-12-63	CW-1	0				
458-W	"	CW-7	0				

* *Calculated from uranium content assuming natural isotopic abundance.*

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(1 11-61)

SUPERVISOR T Kwasnoski

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REPORT OF WATER ANALYSES

REPORT NO.__ _____

Distribution:
A. F. Becher, T. Kwasnoski, RC
C. H. Mahoney, W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	Hg ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	Counts per min/100 ml. BETA
461-W	10-19-63	CW-1	0				
465-W	"	CW-7	0				
471-W	10-26-63	CW-1	28				
475-W	"	CW-7	0				
478-W	11-2-63	CW-1	12				
482-W	"	CW-7	12				
485-W	"	801-A	6				
486-W	"	901 Raw Water	0				
487-W	"	A and B K-802	0				
488-W	"	C Loop	0				
489-W	"	E Loop	0				
490-W	"	G Loop	10				
491-W	11-9-63	CW-1	22				
495-W	"	CW-7	24				

1964 FEB 12 PM 12:31
Safety and Health Physics

NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR Kwasnoski

DATE RELEASED 2/11/64

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REPORT OF WATER ANALYSES

REPORT NO._____

Distribution:

A. F. Becher, T. Kwasnoski,
C. H. Mahoney, W. H. Taylor

SAMPLE NUMBER	DATE SAMPLED	SAMPLING LOCATION	~~Uranium~~ Hg ppb.	FLUORIDES ppm.	pH	Counts per min/100 ml. ALPHA	Counts per min/100 ml. BETA
498-W	11-16-63	CW-1	14				
502-W	"	CW-7	0				
515-W	11-23-63	CW-1	12				
519-W	"	CW-7	16				
522-W	11-30-63	CW-1	12				
526-W	"	CW-7	0				
529-W	12-7-63	CW-1	0				
533-W	"	CW-7	0				
536-W	12-14-63	CW-1	0				
540-W	"	CW-7	0				
545-W	12-21-63	CW-7	0				
549-W	12-29-63	CW-1	0				
553-W	"	CW-7	0				

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NOTE: *Alpha counts per minute per 100 ml. water at 50% geometry.*
Beta counts per minute per 100 ml. water at 100% geometry.
All Mud Results per gram dry weight.

SUPERVISOR T Kwasnoski

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Special Analysis Section