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FCRE
MAJ Colio
28 Nov 78

FACT SHEET

SUBJECT: Enjebi Subsurface Contamination

PURPOSE: To provide current status of Enjebi (Janet) subsurface contamination.

BACKGROUND:

a. On 27 Sep 77, DOE-ERSP outlined to CJTG a ground zero (Easy - X Ray and Item sites) subsurface exploration plan for Enjebi. The plan was to verify NVO-140 data by backhoe soil profile sampling.

b. On 5 Oct 77, CJTG directed soil sampling priority to Lujor, Boken, Aomon and Runit. It was implied by CJTG that the Enjebi subsurface was secondary to characterizing surface TRU contamination. This prioritization was IAW the mission and personnel safety considerations inasmuch as subsurface contamination presents less of an immediate hazard than surface contamination.

c. On 16 Aug 78, almost one year later, DOE-ERSP extracted 740 soil samples in the Easy - X Ray and Item Ground Zero sites, using sidewall sampling in backhoe trenches to a depth of 120 cm (4 ft).

d. On 30 Sep 78, DOE-ERSP reported to CJTG that two areas in the NW quadrant of Enjebi had subsurface TRU greater than 160 pCi/g, thereby exceeding Condition D. The assumed depth of cut to excise the approximate 1307 cy of subsurface TRU contamination was 100 cm (3.3 ft).

DISCUSSION: None

STATUS: The Enjebi subsurface excision is scheduled to begin o/a 27 Nov 78.

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ISLANDS, BY CATEGORY

MEAN RADIONUCLIDE VALUE, $\mu\text{Ci}/\text{g}$ ACTIVATION
PRODUCT
CO-60¹³⁷

	NAME	TOTAL U TRANSURANICS	FISSION PRODUCTS		ACTIVATION PRODUCT CO-60 ¹³⁷
			CS-137 21	SR-90 31	
RESIDENCE - JAPTON	DAVID	0.04	0.21	0.41	0.03
- MEDREN	ELMER				
- ENEWETAK	FRED				
AGRICULTURAL - ENGEZI	JANET	26.1	31.4	69.3	2.6
- AET	OLIVE	16.4	11.5	28.4	1.9
- LUJOR	PEARL	72.0	14.6	28.1	7.2
- AOMON	SALLY	10.6	7.3	11.6	0.4
- BISIRE	TILDA	3.3	5.5	23.3	0.5
- LOJWA	WASULIA	1.3	1.7	6.3	0.3
- ALEMSEL	YERA	5.5	4.0	15.1	0.3
VISITATION - BOHOLIO	ALICE	59.9	70.0	130.3	9.6
- COKAMBAND	BELL	74.3	60.6	162.9	11.5
- KIRUNU	CLARA	32.6	43.6	114.8	5.1
- LOIJ	DAISY	36.6	10.4	114.7	3.9
- COKINHOTME	EDNA	32.3	4.4	47.0	0.4
- COKEN	IRENE	24.0	9.8	46.7	13.2
- MUSIKADREK		22.0	14.4	55.8	1.5
- KUDRIVEN	LUCY	27.0	13.3	36.7	1.4
- TAIWAL	PERCY	5.6	0.9	48.5	0.5
- COKENELAS	MARY	15.2	7.5	46.9	0.3
- ELLE	NANCY	25.4	16.2	45.6	1.7
- CLELERON	RUBY	5.9	1.6	27.11	2.2
- BILLAB	WILMA	2.4	1.8	5.7	0.2
MINING SOUTHERN LANDS EXCEPT LEROY	LEROY	0.07	0.14	0.52	0.06
- BIKEN	LEROY	0.63	3.2	11.0	0.56
CRONTINE - RUMIT	YVONNE				

NORTHERN ISLETS NOT LISTED INCLUDE MARY'S CHILD, PEACH'S CHILD, SALLY'S CHILD

ARITHMETIC MEAN OF ESTIMATES OF TOTAL TRANSURANICS INCLUDING PU-239¹³⁷,
PU-239+240, AND AM-241 FROM AM-241 ON-SITE GAMMA SCAN AND LABORATORY ANALYSIS OF SOIL SAMPLES FROM CURRENT SURVEY, EXCEPT LINES INDICATED IN FOOTNOTE 4 WHICH ARE PU-239+240 ONLY.

✓ PRELIMINARY RESULTS FROM CURRENT ON-SITE GAMMA SCAN.

✓ ARITHMETIC MEAN FROM NUO-140 DATA. APPLIES EXCEPT FOR LINES WITH FOOTNOTE 4.

✓ GEOMETRIC MEAN FROM NUO-140, p. 99.

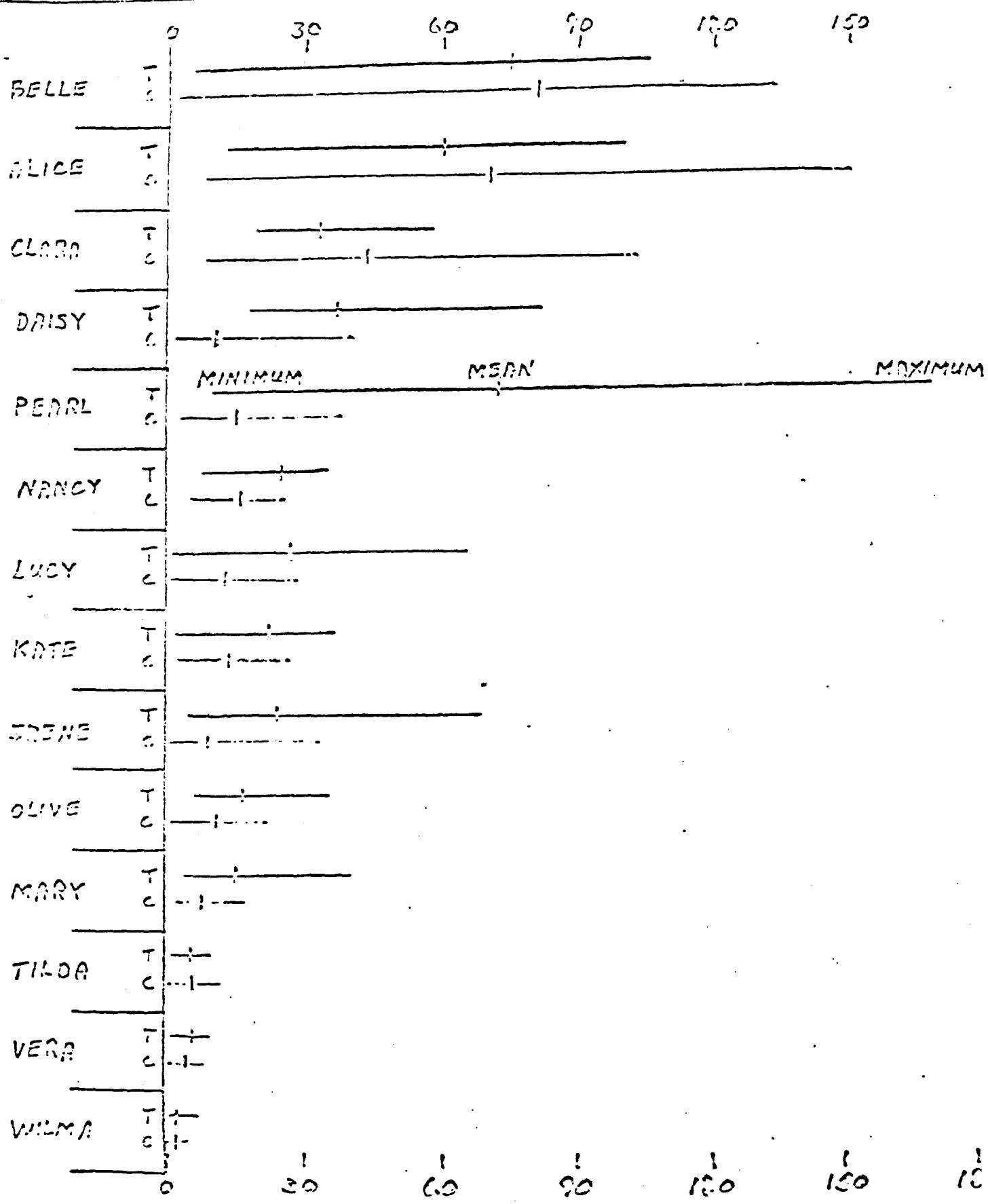
✓ LABORATORY RESULTS FROM CURRENT SOIL SAMPLES.

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(TOTAL TRANSLUMINICS AND CS-137 ONLY)



TOTAL TRANSPARENCIES, PERCENT, AT THE SURFACE

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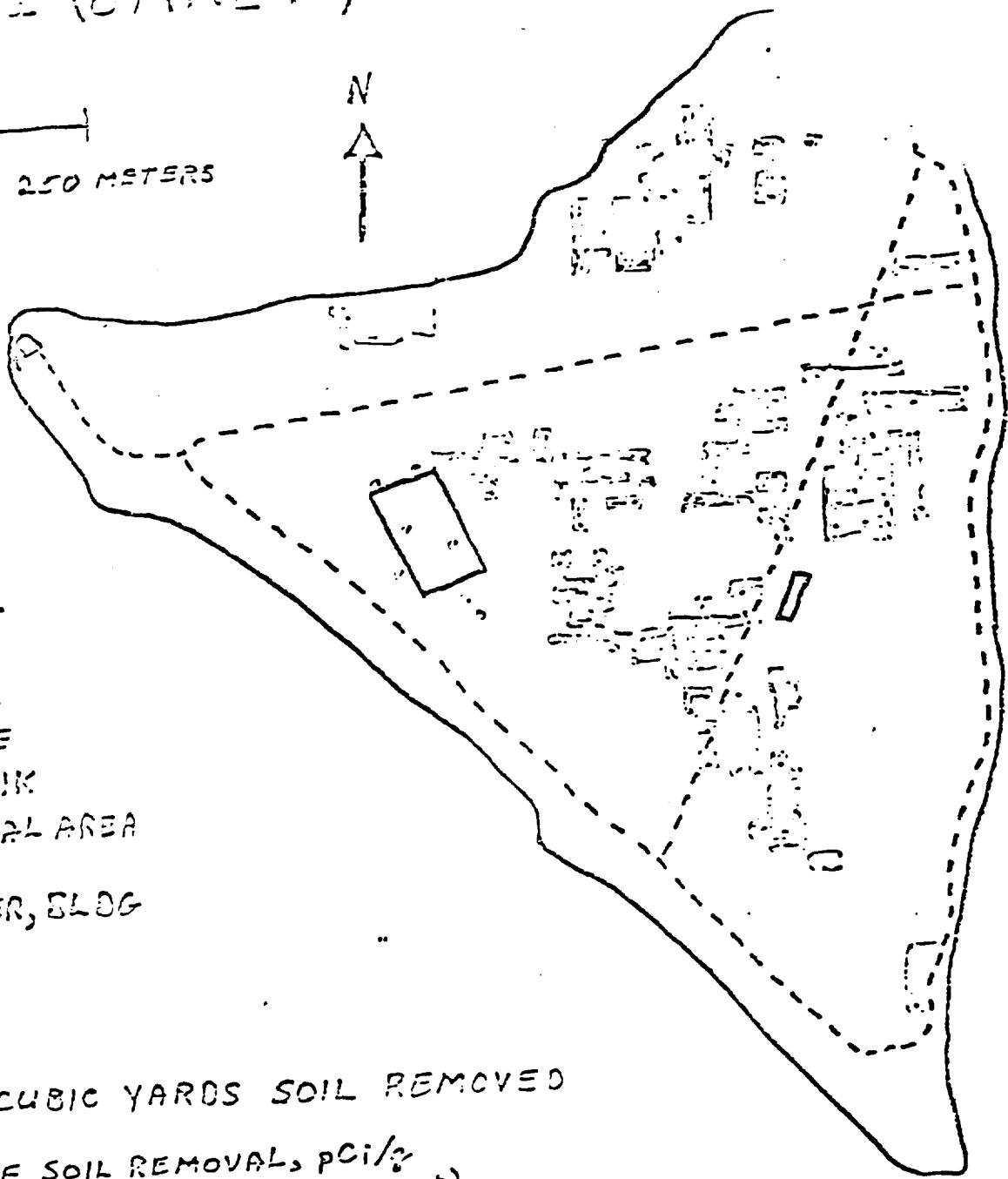
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ENVIRONMENTAL

1"

SCALE: 1" = 250 METERS

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ABOUT 48,000 CUBIC YARDS SOIL REMOVED

RESULTS OF SOIL REMOVAL, PCI/²
(AVERAGES OF 77 MEASUREMENTS ≈)

	TOTAL TRANSURANICS	CS-137	* [#] CO-60
BEFORE REMOVAL	55.0	48.4	3.6
AFTER REMOVAL	11.9	16.7	1.0

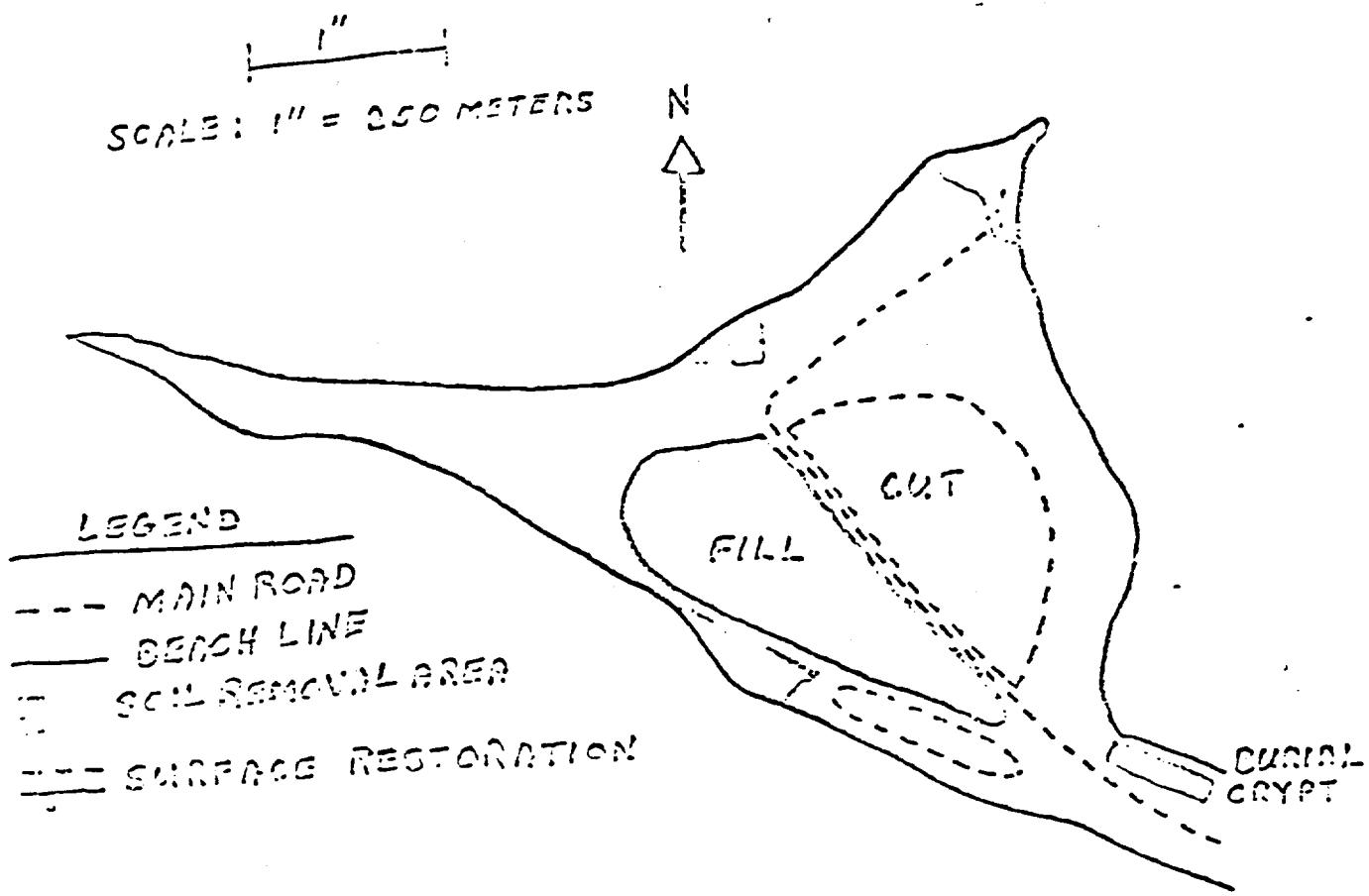
ALL DATA OBTAINED FROM ON-SITE GAMMA SCAN

* FULL AND HALF CIRCLE POINTS
AVAILABLE AS OF 20 NOV 78

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TAOMON (SALLY)



ABOUT 10,600 CUBIC METERS SOIL REMOVED

RESULTS OF SOIL REMOVAL FOR
AVERAGES OF 10 MEASUREMENTS

	TOTAL TRANSMISSIONS	CO-60 ^{**}	CO-60
BEFORE REMOVAL	100.3	4.2	0.3
AFTER REMOVAL	32.7	1.0	0.4

ALL DATA OBTAINED FROM ON-SITE GAMMA SCAN
100 METRE GRID POINTS FROM EACH REMOVED AREA
DATE: 07.07.00 NOV 70

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