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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 150 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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ISLAND, BY CATEGORY

MEAN RADIOISOTOPE VALUE,  $\mu\text{Ci/g}$

			TOTAL <sup>4</sup>	FISSION PRODUCTS		ESTIMATED PRODUCT
			TRANSURANICS	CS-137 <sup>2</sup>	SR-90 <sup>2</sup>	CO-60 <sup>3</sup>
RESIDENCE - JAPAN	DAVID	} <sup>4</sup>	0.04	0.21	0.41	0.03
- MEDREN	ELMER					
- ENEWETAK	FRED					
AGRICULTURAL - ENJEDI	JANET		26.1	31.4	69.3	2.6
- ABE	OLIVE		16.4	11.5	28.4	1.9
- LUJOR	PEARL		72.0	14.6	28.1	7.2
- ADON	SALLY		10.6	7.3	11.6	0.4
- BIJIRE	TILDA		5.3	5.5	23.3	0.5
- LOJWA	KASULA <sup>4</sup>		1.3	1.7	6.8	0.3
- ALEMSEL	YERA		5.5	4.0	15.1	0.3
VISITATION - BOKOLUO	ALICE		59.9	70.0	130.3	9.6
- BOKOMBANO	BELLE		74.3	80.6	162.9	11.5
- KIRUNU	CLARA		32.6	43.6	114.8	5.1
- LOJ	DAISY		36.6	10.4	114.7	3.9
- BOKINHOTME	EDNA		32.8 <sup>5</sup>	4.4	47.0	0.4
- BOKEN	IRENE		24.0	9.8	46.7	13.2
- MISIKADREK			22.0	14.4	55.8	1.5
- KIDRINEN	LUCY		27.0	13.3	36.7	1.4
- TAINAL	PERCY		5.6 <sup>5</sup>	0.9 <sup>4</sup>	48.5	0.5
- BOKNELAS	MARY		15.2	7.5	46.9	0.3
- ELLE	NANCY		25.4	16.2	45.6	1.7
- ELELIRON	RUBY		5.9	1.6	27.4	2.2
- BILLAE	WILMA		2.4	1.8	5.7	0.2
TRAINING SOUTHERN ISLANDS EXCEPT LEROY <sup>4</sup>			0.07	0.14	0.52	0.06
- BIKEN	LEROY <sup>4</sup>		0.63	3.2	11.0	0.56
QUARANTINE - RUAIT	YVONNE					

OTHER ISLETS NOT LISTED INCLUDE MARY'S CHILD, PERCY'S CHILD, SALLY'S CHILD

<sup>1</sup> ARITHMETIC MEAN OF ESTIMATES OF TOTAL TRANSURANICS INCLUDING PU-239, PU-239+240, AND AM-241 FROM AM-241 ON-SITE GAMMA SCAN AND <sup>2</sup> LABORATORY ANALYSIS OF SOIL SAMPLES FROM CURRENT SURVEY, EXCEPT LINES INDICATED BY FOOTNOTE 4 WHICH ARE PU-239+240 ONLY.

<sup>3</sup> PRELIMINARY RESULTS FROM CURRENT ON-SITE GAMMA SCAN.

<sup>4</sup> ARITHMETIC MEAN FROM 110-140 DATA. APPLIES EXCEPT FOR LINES WITH FOOTNOTE 4

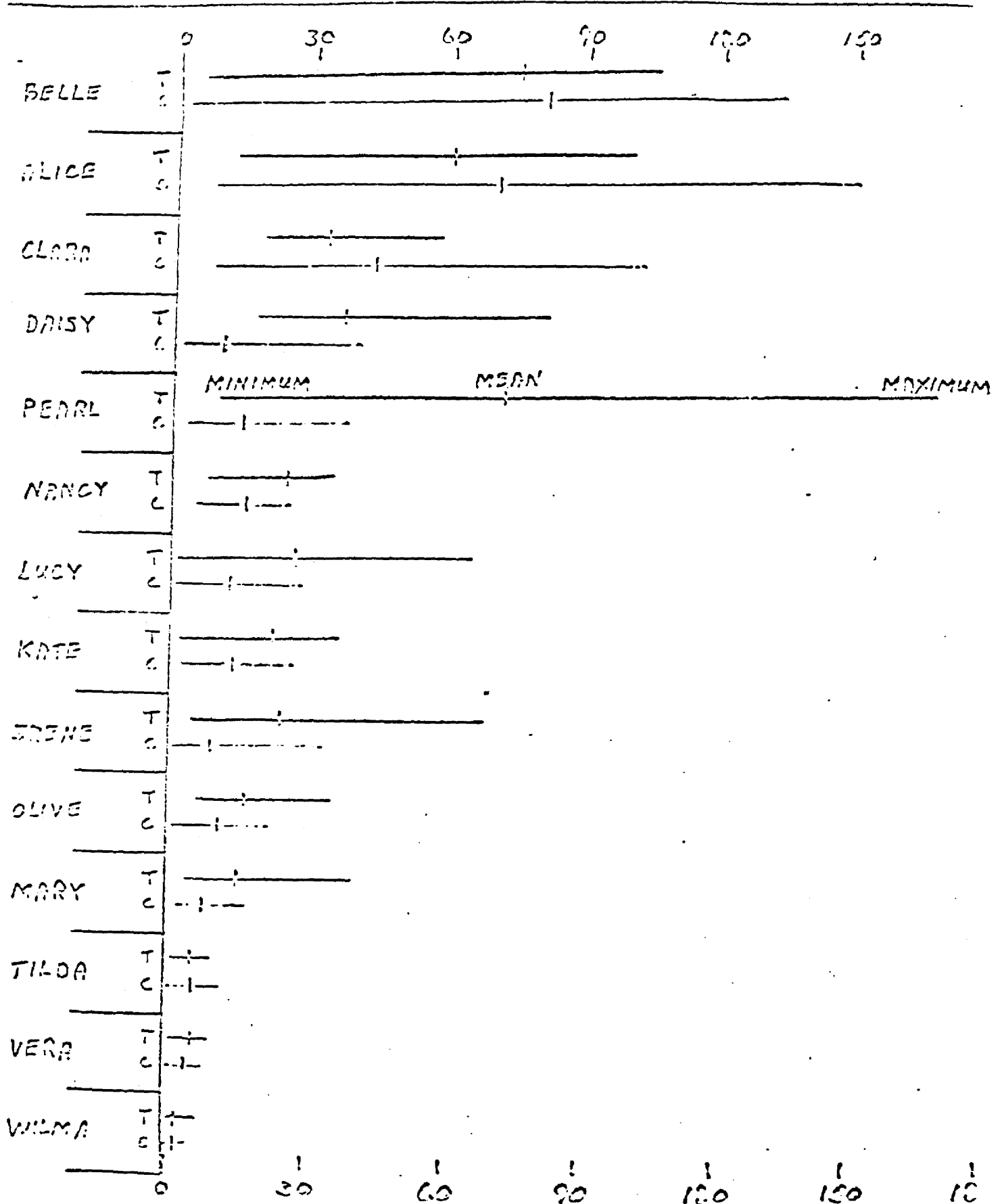
<sup>5</sup> GEOMETRIC MEAN FROM 110-140, p. 99.

<sup>6</sup> LABORATORY RESULTS FROM CURRENT SOIL SAMPLES.

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(TOTAL TRANSDUCTIONS AND CS-137 ONLY)



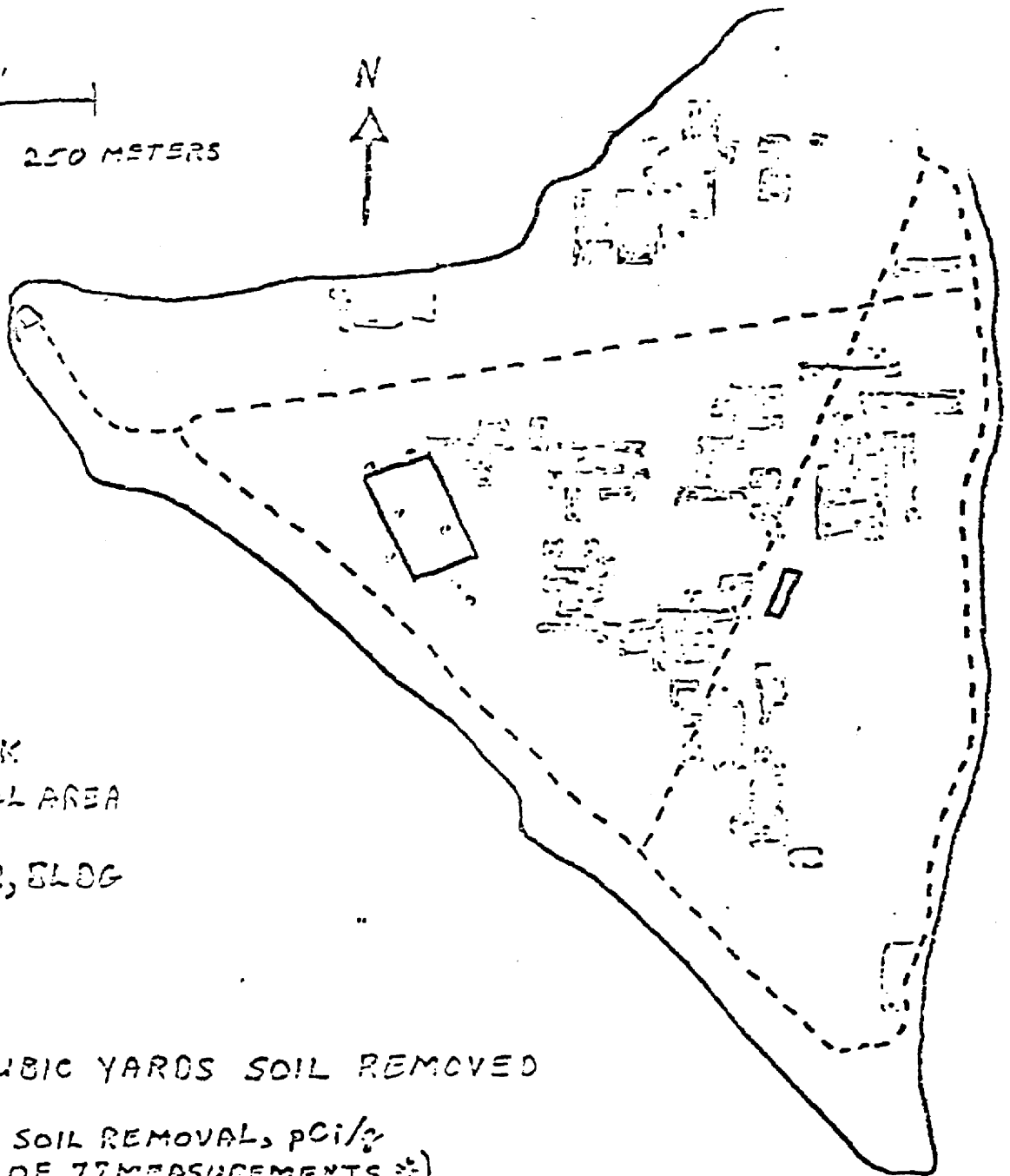
T = TOTAL TRANSDUCTIONS,  $\mu\text{Ci}/\text{c}$ , AT THE SURFACE  
 C = CS-137  $\mu\text{Ci}/\text{c}$  AT THE SURFACE (PRELIMINARY DATA)

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ENCLOSURE (CONTINUED)

SCALE: 1" = 250 METERS



LEGEND

- ▭ PLOW PLOT
- MAIN ROAD
- BEACH LINE
- WATER TANK
- ◻ SOIL REMOVAL AREA
- ▨ FARM, BUNKER, BLOG

ABOUT 48,000 CUBIC YARDS SOIL REMOVED

RESULTS OF SOIL REMOVAL, pCi/g  
(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

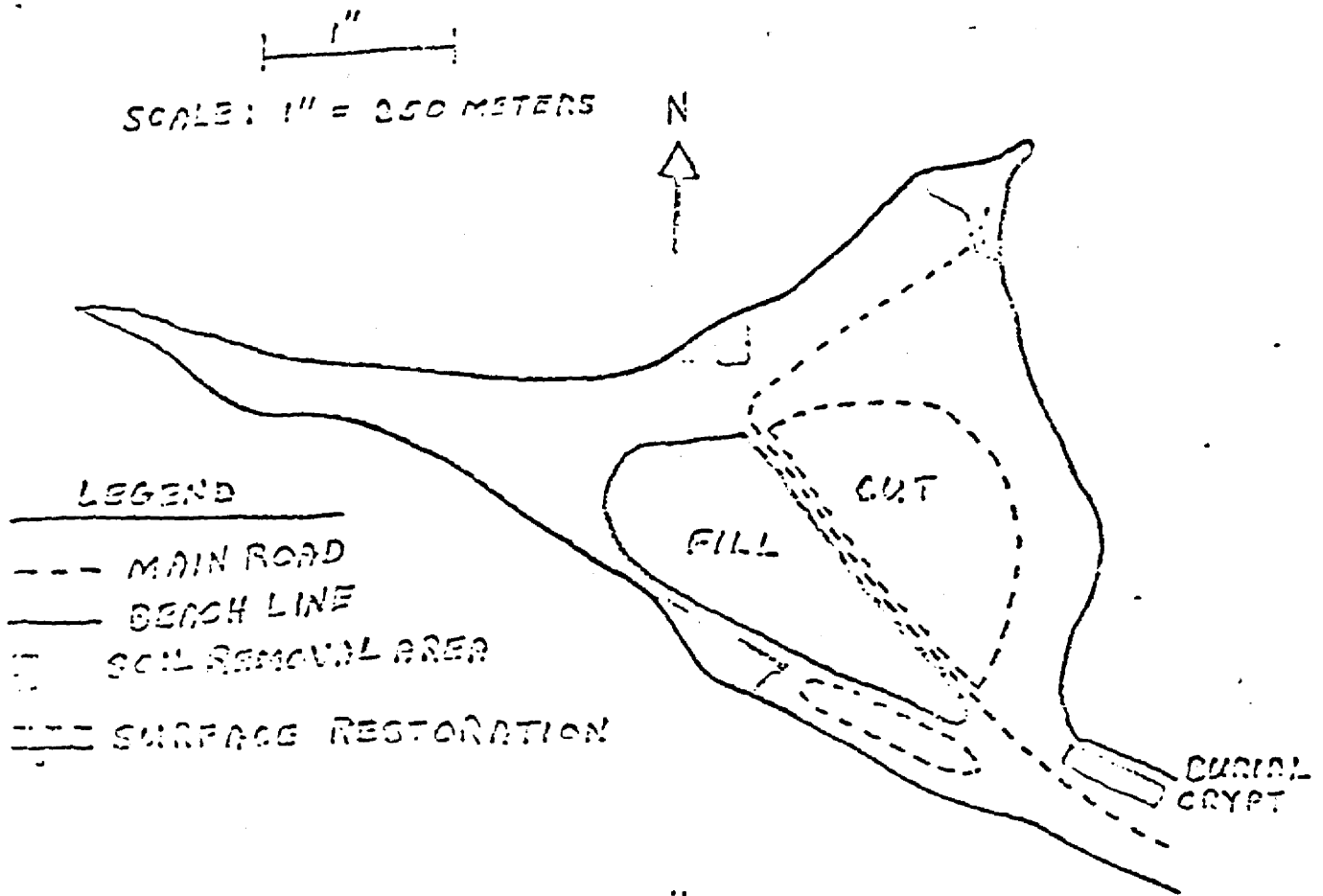
ALL DATA OBTAINED FROM ON-SITE GAMMA SCAN

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

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# AOMON (SALLY)



ABOUT 10,600 CUBIC YARDS SOIL REMOVED

RESULTS OF SOIL REMOVAL, PPM/3  
(AVERAGES OF 10 MEASUREMENTS \*\*)

	TOTAL TRANSDUCERS	CO-37**	CO-60
BEFORE REMOVAL	104.2	4.7	0.3
AFTER REMOVAL	32.7	1.0	0.4

ALL DATA OBTAINED FROM ON-SITE GAMMA SCAN

\*\* 25 METER GRID POINTS FROM EACH REMOVAL AREA  
DATA AS OF 20 MAY 77

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