

VARIANCE / FIELD CHANGE NOTICE

Significant?
(Yes/No): NO

V/F 20810-PSP-0005-07
EJK
2-20-03

WBS NO.: PROJECT/DOCUMENT/ECDC # 20810-PSP-0005

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Date February 20, 2003

PROJECT TITLE: PSP for Predesign Investigation in Area 5, Rev. 0.

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance documents the collection of five borings and 10 samples from the Cold War Garden and the old flag pole location. The five boring locations are shown on Figure 1.

The three borings (93, 94 and 95) nearest to the Cold War Garden will be conducted to 2 feet below overlying material. Borings 97 and 98 near the old flag pole will be conducted to a depth of 20 feet. Upon collection per SMPL-01, all cores will be frisked with a beta-gamma frisker, and results will be recorded on the field activity log. Though not anticipated, any sample increments that exceed 450 ccpm will be considered potential above-WAC material, and they will be separated, containerized, and submitted for on-site total uranium analysis (TAL E).

For all 5 borings, the first 0-0.5 feet of soil beneath overlying material, as well as the 1.5-2 foot interval below overlying material, will be separated from the cores. The samples will be identified as: *Remediation Area-sequential #RMP*, where:

- Remediation Area = A5A (administrative side of Area 5);
- # represent a sequential number (beginning with 93); and
- RMP indicates radiological, metal and PCB analysis.

The list of samples collected under this V/FCN is included at Table 1. The sampling and analytical requirements are listed on Table 2. No field QC samples will be required, nor will alpha/beta screen samples, since previously collected data can be used to ship the samples. The target analyte lists A and G are also included with this V/FCN.

Field validation will be performed, but analytical validation will not.

Justification:

Additional investigation is necessary in this area to: 1) better characterize soil in the Cold War Garden area, and 2) investigate potential contamination from historical activities at the former flag pole area.

REQUESTED BY: Eric J. Kroger

Date: 2-20-03

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE R. FRIEDL <i>Michael J. Follen</i>	2/24/03	X	PROJECT MANAGER: P. Cimino <i>P. Cimino</i>	2/27/03
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: F. Miller <i>F. Miller</i>	2/20/03
X	ANALYTICAL CUSTOMER SUPPORT: <i>Debbie Medley</i>	2/24/03		RTIMP Manager	
X	WFO <i>Christa Wald</i>	2-26-03	X	Sampling Manager: T. Buhjagt <i>Tom Buhjagt</i>	2/20/03
VARIANCE/FCN APPROVED [X] YES [] NO			REVISION REQUIRED: [] YES [x] NO		

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Frank Miller	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

INFORMATION ONLY

TABLE 1
Samples Collected Under V/FCN 20810-PSP-0005-7

Boring ID	Northing	Easting	Sample Depth ^a	Depth ID ^b	Analysis	Sample ID
A5A-93	479571.37	1349559.4	0-0.5	a	TAL A & G	A5A-93-a-RMP
			1.5-2	b	TAL A & G	A5A-93-b-RMP
A5A-94	479511.82	1349573.28	0-0.5	a	TAL A & G	A5A-94-a-RMP
			1.5-2	b	TAL A & G	A5A-94-b-RMP
A5A-95	479468.51	1349568.77	0-0.5	a	TAL A & G	A5A-95-a-RMP
			1.5-2	b	TAL A & G	A5A-95-b-RMP
A5A-96	479469.2	1349517.76	0-0.5	a	TAL A & G	A5A-96-a-RMP
			1.5-2	b	TAL A & G	A5A-96-b-RMP
A5A-97	479469.2	1349531.99	0-0.5	a	TAL A & G	A5A-97-a-RMP
			1.5-2	b	TAL A & G	A5A-97-b-RMP

^a Depth below overlying material.

^b Letter will be replaced by a number equal to one-half of the bottom depth (ft).

TABLE 2
Sampling and Analytical Requirements

Analytes	Sample Matrix	Lab	TAT	ASL	Preservation	Hold Time	Container	Min. Sample Mass
Primary Radiological COCs, Arsenic, Beryllium, Aroclor-1254 & -1260 (TALs A and G)	Solid	Off-site	30 Days	B	Cool to 4°C	12 months (rads) 6 months (metals) 14 days (PCBs)	Glass w/ Teflon-lined lid (due to PCBs)	450g ^a
Total Uranium (TAL E) ^b	Solid	On-site	7 days	B	None	12 months	Glass or polyethylene	20g

^a Mass necessary can be collected in one container for radiological, metal and PCB analyses.

^b Only necessary if frisker reading exceeds 450 ccpm.

TARGET ANALYTE LISTS**TAL 20810-PSP-0005-A**

Soil Analysis, Off-Site (ASL B), 20 Samples Specified in VFCN 7

Analyte	FRL	Requested Minimum Detection Limit ^a
Total Uranium	82 mg/kg	8.2 mg/kg
Thorium-228	1.7 pCi/g	0.17 pCi/g
Thorium-232	1.5 pCi/g	0.15 pCi/g
Radium-226	1.7 pCi/g	0.17 pCi/g
Radium-228	1.8 pCi/g	0.18 pCi/g

TAL 20810-PSP-0005-E

Soil Analysis, On-Site, ICMPS Method (ASL B), 0 Samples Specified in PSP

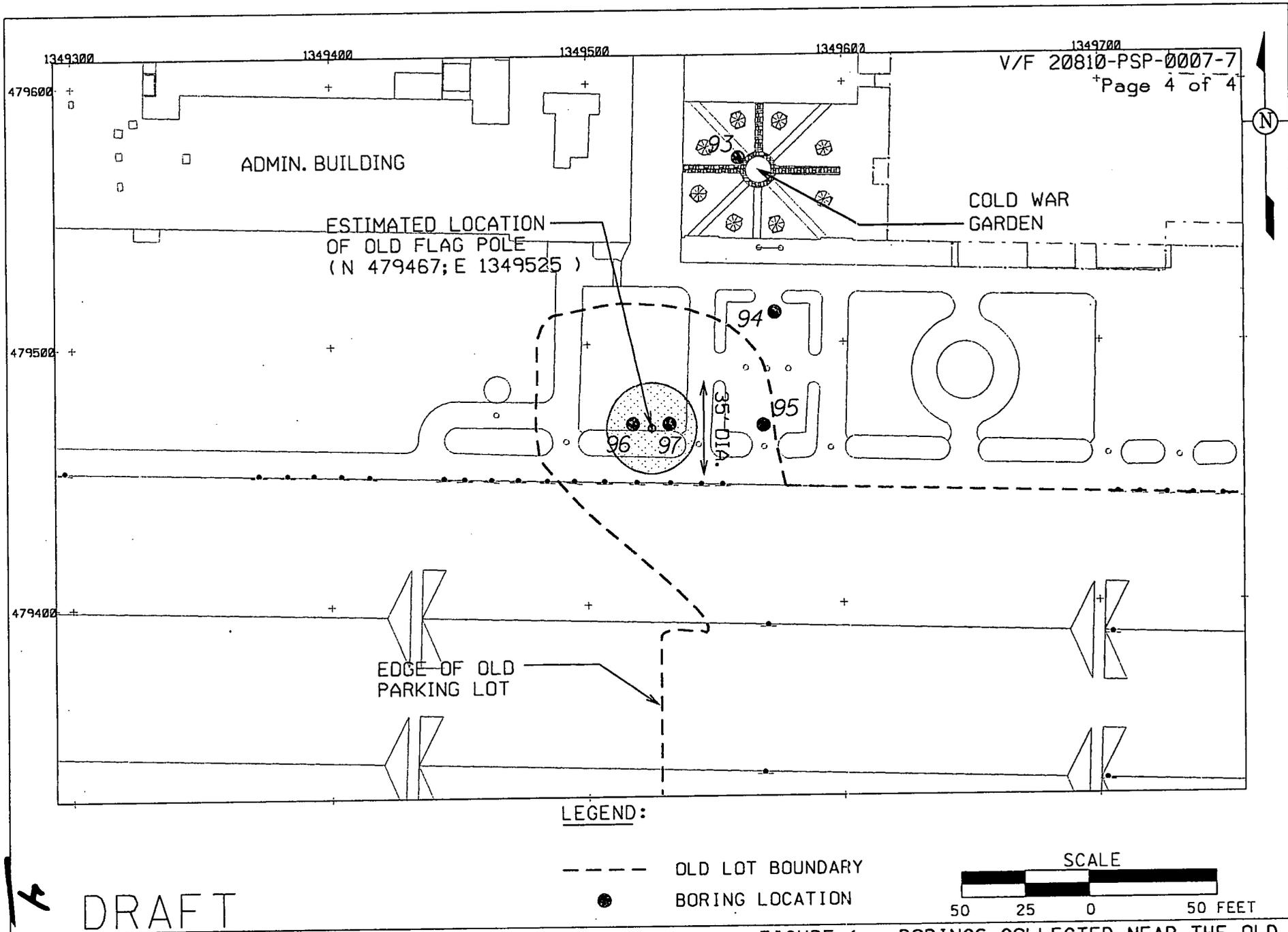
Analyte	FRL	Requested Minimum Detection Limit ^a
Total Uranium	82 mg/kg	8.2 mg/kg

TAL 20810-PSP-0005-G

Soil Analysis, Off-Site (ASL B), 20 Samples Specified in VFCN 7

Arsenic	12 mg/kg	1.2 mg/kg
Beryllium	1.5 mg/kg	0.15 mg/kg
Aroclor-1254	130 µg/kg	13 µg/kg
Aroclor-1260	130 µg/kg	13 µg/kg

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FIGURE 1. BORINGS COLLECTED NEAR THE OLD FLAG POLE AND COLD WAR GARDEN.

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