Los Alamos National Laboratory
Environmental Programs Technical Area 21

Operated by the Los Alamos Nat. . Security, LLC, for DOE/NNSA

TA-21 21-024(c)

FAX TRANSMITTAL

TA 21-9000 Project Office
MS C349
699-9151/606-4065
Fax: 606-0864

TO: Katie Chamberlain FAX# 428-2567

Organization: _____ Phone: _____

FROM: Mark Thacker Return FAX# 606-0864

Phone: 699-1963

#Pages Incl. Cover 6

Message: will call you this afternoon.

Mark

ID=6679553

Sample ID: RE21-06-68643 **EPA Method 8290**

Client Data		Sample Data		Laboratory Data			
Name:	Los Alamos National Laboratory	Matrix:	Soil	Lab Sample:	27939-001	Date Received:	3-Aug-06
Project:	5667S	Sample Size:	10.2 g	QC Batch No.:	8253	Date Extracted:	4-Aug-06
Date Collected:	25-Jul-06	%Solids:	97.2	Date Analyzed DB-5:	7-Aug-06	Date Analyzed DB-225:	NA
Time Collected:	1018						

Analyte	Conc. (pg/g)	DL [a]	EMPC[b]	Qualifiers
2,3,7,8-TCDD	0.413			J
1,2,3,7,8-PeCDD	ND		1.30	
1,2,3,4,7,8-HxCDD	4.01			
1,2,3,6,7,8-HxCDD	7.18			
1,2,3,7,8,9-HxCDD	5.19			
1,2,3,4,6,7,8-HpCDD	187			
OCDD	1420			
2,3,7,8-TCDF	30.0			
1,2,3,7,8-PeCDF	9.83			
2,3,4,7,8-PeCDF	13.1			
1,2,3,4,7,8-HxCDF	22.7			
1,2,3,6,7,8-HxCDF	6.77			
2,3,4,6,7,8-HxCDF	4.95			
1,2,3,7,8,9-HxCDF	4.51			
1,2,3,4,6,7,8-HpCDF	81.6			
1,2,3,4,7,8,9-HpCDF	11.3			
OCDF	353			B

Totals	
Total TCDD	5.13
Total PeCDD	17.5
Total HxCDD	88.4
Total HpCDD	339
Total TCDF	143
Total PeCDF	96.3
Total HxCDF	102
Total HpCDF	210

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	91.3	40 - 135	
	13C-1,2,3,7,8-PeCDD	82.9	40 - 135	
	13C-1,2,3,4,7,8-HxCDD	90.1	40 - 135	
	13C-1,2,3,6,7,8-HxCDD	91.8	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDD	106	40 - 135	
	13C-OCDD	89.8	40 - 135	
	13C-2,3,7,8-TCDF	92.6	40 - 135	
	13C-1,2,3,7,8-PeCDF	87.1	40 - 135	
	13C-2,3,4,7,8-PeCDF	84.7	40 - 135	
	13C-1,2,3,4,7,8-HxCDF	90.6	40 - 135	
	13C-1,2,3,6,7,8-HxCDF	82.4	40 - 135	
	13C-2,3,4,6,7,8-HxCDF	87.3	40 - 135	
	13C-1,2,3,7,8,9-HxCDF	96.5	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDF	96.5	40 - 135	
	13C-1,2,3,4,7,8,9-HpCDF	103	40 - 135	
	13C-OCDF	89.8	40 - 135	
CRS	37Cl-2,3,7,8-TCDD	88.1	40 - 135	

Toxic Equivalent Quotient (TEQ) Data [e]

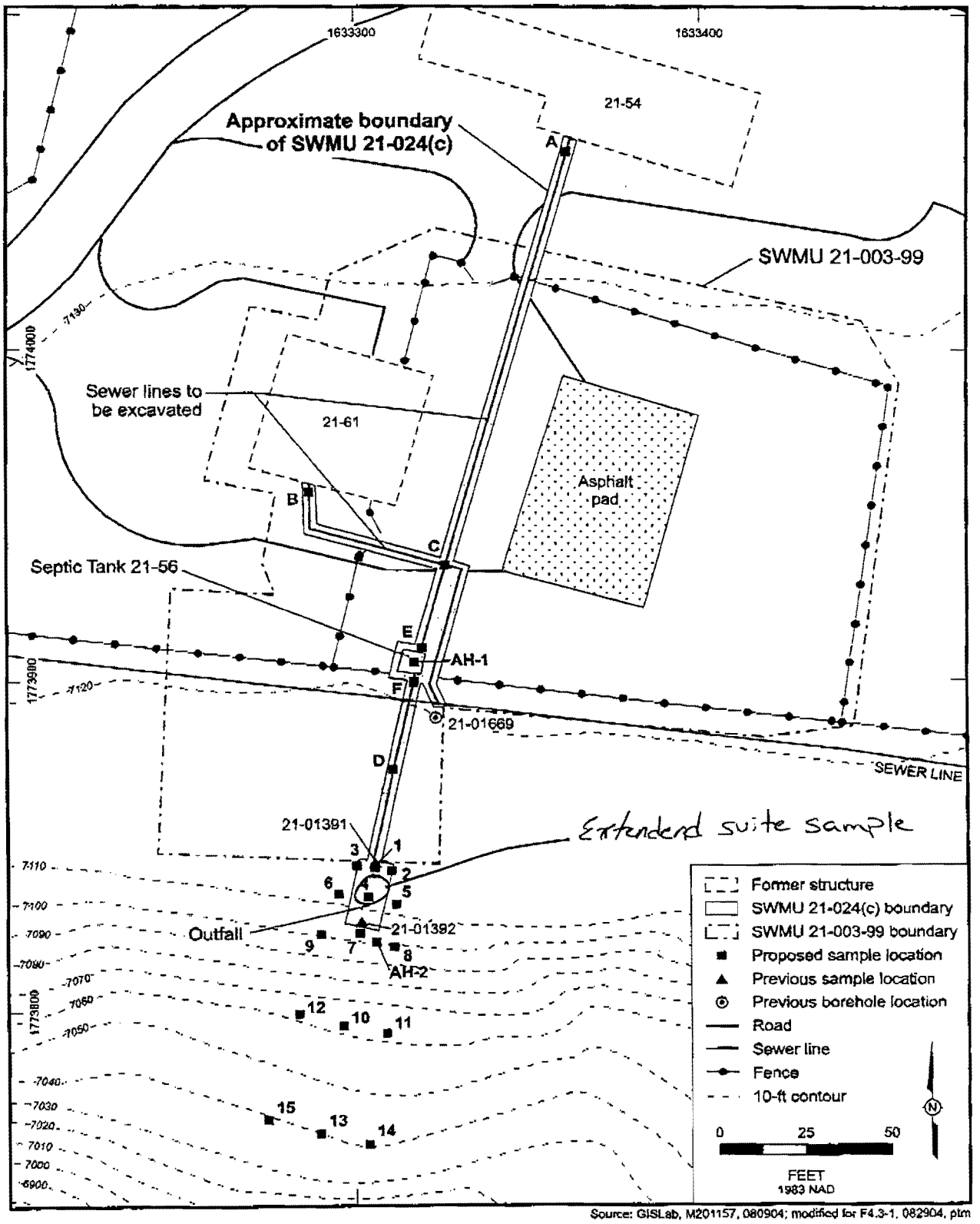
TEQ (Min): 20.5

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Method detection limit.
d. Lower control limit - upper control limit.
e. TEQ based on (1989) International Toxic Equivalent Factors (ITEF).

Analyst: JMH

Approved By: Martha M. Maier 08-Aug-2006 10:28

08-16-06 07:14 CANYONS



Source: GISLab, M201157, 080904; modified for F4.3-1, 082904, ptm

Figure 4.3-1. SWMU 21-024(c) proposed sample locations

CONTRACT # :	PROJECT TITLE & LOCATION:	REPORT DATE: 7/25/06
DE-AC52-06NA25396	DP Aggregate Area at TA-21 SWMU 21-024(c)	Start Time: 0700 End Time: 1700

CONTRACTOR:	CONTRACTOR'S REPRESENTATIVES:
Accelerated Remediation Corporation (ARC)	Keith Tucker

AM WEATHER:	PM WEATHER:	PRECIPITATION:	MAX TEMP:	MIN. TEMP:
Clear, warm	p. cloudy, hot	none	NA	NA

ON-SITE PERSONNEL AND TASKS PERFORMED/AREA OF RESPONSIBILITY

TRADE/TITLE	EMPLOYER / ON-SITE		PERSONNEL	WORK DESCRIPTION
Field Team Leader	Portage	X	Randy Vigil	Responsible for implementation of field operations/ heavy equipment operator.
Task Manager/SSO	Portage	X	Curtis Schultz	Responsible for daily operations oversight and communications with LANS staff. As SSO, responsible for implementing site health and safety.
WMC	Portage		Brett Cummins	Responsible for all waste management activities.
WMC	Shaw		Doug Hopinkah	Responsible for all waste management activities.
Operator, field supervisor	Portage		Jared Pompeo	Heavy Equipment Operator, field activities implementation
Radiological Control Technician (RCT)	LANL	X	John Barton	Radiological sample screening and site monitoring.
Supervisor	Laguna	X	Andy Long	Laguna field operations manager
Sample Tech	Laguna	X	Larry Poncho	Field support/sampling/heavy equipment operator.
Sample Tech	Laguna	X	Franklin Silva	Field support/sampling/heavy equipment operator.
Sample Tech	Portage	X	Serafin (JR) Vigil	Field support/sampling/heavy equipment operator.
Sample Tech	Portage	X	Gabe Gallegos	Field support/sampling/heavy equipment operator.
Sample Tech	Portage	X	Antoinette Toya	Field support/sample preparation for SMO.

EQUIPMENT USED

EQUIPMENT DESCRIPTION	# OF UNITS	ARRIVAL DATE	LAST SAFETY CHECK (OTHER THAN DAILY)	Comments
Skidsteer	1	6/29/06		
Water Truck	1	6/29/06		
PU Truck w/ fuel tank	1	6/29/06		
Back Hoe	1	6/29/06		

DESCRIPTION OF DAILY ACTIVITIES: RCT performed pre-sampling gamma survey of all 15 locations to be sampled. Crew sampled locations #1 thru #15, 3 depths at location #1; 2 depths each at the rest of the locations. Crew utilized a free-fall harness for locations #7-9, along the mesa edge of the outfall locations. Samples bottled, labeled, and delivered to the SMO. Investigation sampling at SWMU 21-024(c) completed. Crew prepared for sampling activities at SWMU 21-013(c).

Location #4a (0-0.5ft), ~8ft south of outlet line end, was selected for extended suite analysis. This was based on a beta screening level of ~3800 dpm; the PID reading was less than one. The second depth (1.5ft-2.0ft) at this location had a beta screening level of ~2400 dpm (background = ~1300 dpm).

JOB SAFETY

	YES	NO
SAFETY MEETING HELD TODAY?	X	
ANY LOST TIME ACCIDENTS? if YES, attach copy of completed report(s), OSHA 200 log, et al		X
TRENCHING/SCAFFOLDING/HIGH VOLTAGE ELECTRICAL/ELEVATED WORK PERFORMED? if YES, include copy of report(s) of inspection(s) performed by competent or qualified person(s)		X
ANY SPILLS OR HAZARDOUS WASTE RELEASED TO THE ENVIRONMENT? If YES, include copy of completed reports indicating response action(s) and notification(s)		X
ANY VIOLATIONS OF JOB SAFETY RULES OBSERVED? if YES, include copy of completed reports indicating response action(s)		X

DISCUSSION OF SAFETY ACTIONS/INSPECTIONS CONDUCTED:

Visitors

NAME	ORGANIZATION
Roy Bohn	TA-21
Dan Sandoval	HSR-5
Beryl Cruz	HSR-5

TESTING AND QUALITY ACTIVITIES PERFORMED Beryl Cruz and Dan Sandoval (HSR-5) assisted and observed mesa edge sampling and use of safety harness.

FIELD SCREENING RANGES

PID = 0.4 ppm to 2.3 ppm.

RAD = Alpha: 26 dpm to 138 dpm; Beta: 2560 dpm to 3600 dpm – with the exception of location #4a which had highest beta reading of 3730 dpm.

Background = Alpha – 6.7 dpm; beta – 1896 dpm.

CHANGES None

SAMPLES COLLECTED SWMU 21-024(c): locations #1 thru #15; at depth intervals 0-0.5', 0.5'-1.0', 1.5'-2.0' for location #1; 'epth intervals 0-0.5', 1.5'-2.0' at locations #2-15.

RE21-06-68637 thru 68666, and 72609 for analytical; with RE21-06-68643 turned in for extended suite analysis.

RE21-06-68669 and 686780 field dups;

RE21-06-68672 and 68673 rinsates;

RE21-06-68674 and 68675 trip blanks.

INCIDENTS, ACCIDENTS, OR VIOLATIONS OBSERVED None

NON-CONFORMANCES IDENTIFIED None

OTHER REMARKS: Surface sampling at 2nd investigation site SWMU 21-024(c) completed – all samples turned in to SMO. Sample ID RE12-06- 68643 selected for extended suite analysis and 10-day turn around.

SIGNATURE OF PORTAGE TEAM REPRESENTATIVE	DATE
CJS	7/25/06

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

SAMPLE COLLECTION LOG

SAMPLE ID: RE21-06-68643

EVENT ID: 9082

EVENT NAME: DP Site Aggregate Area, 21-024(c) Part 2, Spring/Summer 2006

SCL Continued on Next Page

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED (MM/DD/YYYY):		07/25/06	EVAL CLASS:	ALLH	OK
TIME COLLECTED (HH:MM):		1018	SAMPLE TECH CODE:	SS	
PRS ID:	PRS: 21-024(c)	OK	FIELD QC TYPE:	NA	
LOCATION ID:	21-25760	Location 4a	COMPOSITE TYPE:	NA	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH ():	0.00	OK (FT / cm / NA)	SAMPLE USAGE:	INV	
BOTTOM DEPTH ():	0.00	0.5 (FT / cm / NA)	WATER FLOWING :		YES___ NO___ NA ✓
FIELD MATRIX:	S	OK	SCREEN/PORT DESC (wells only):		NA
			ER SOP Followed:		6.09

#	CONTAINER	PRESERVATIVE	ORDER	ANALYTICAL SPECIAL INSTRUCTIONS
1	8 IN RESEALABLE POLY BAG	NONE	RADVANA+B+G	
2	~~5 G ENCORE~~	~~ICE~~	~~8260BENCORE~~	~~act~~
	~~5 G ENCORE~~	~~ICE~~	~~8260BENCORE~~	~~act~~
4	250 ML AMBER GLASS	ICE	8270C+8082	
5	125 ML GLASS	ICE	8290	
6	~~125 ML GLASS~~	~~ICE~~	~~8290~~	~~act~~
7	1 L POLY	NONE	AM241+GS+ISOPU+ISOU+SR90	
8	500 ML POLY	ICE	H3	
9	250 ML AMBER GLASS	ICE	NMED Explosives list	
10	125 ML POLY	NONE	PH	
11	1 L POLY	ICE	TALMET+U+CN+NO3+CLO4	

ADDITIONAL INFORMATION (optional): Special Instructions: Please assign top and bottom depths.

SAMPLE DESC: Brown loamy, dry soil

SAMPLE LOCATION DESC: 21-25760

Location Description: 8ft directly downstream from end of outlet line location 4a

FIELD SCREENING/MEASUREMENT RESULTS:

α — 32.9 dpm β — 3730 dpm

PID — 0.7 ppm

COLLECTED BY: (PRINTED NAME) Antoinette F. Tapia (SIGNATURE) [signature] (DATE) 07/25/06

REVIEWED BY: (PRINTED NAME) C. Schulte (SIGNATURE) [signature] (DATE) 7/25/06