

**U.S. ARMY ENGINEERING AND SUPPORT CENTER HUNTSVILLE
FACILITY REDUCTION PROGRAM
(CONTRACT NO. W912DY-09-D-0045)**

**BUILDING 4819 CONCRETE FLOOR
INSPECTION AND SAMPLING REPORT**

Fort Drum, NY

January 4, 2012

Prepared for:



Provided by:

*frankie
friend* & ASSOCIATES, INC., 2305 E. Arapahoe Road, Suite 132, Centennial, CO 80122

SUMMARY

The attached report contains the results of a limited sample collection and analysis of the concrete floor in Building 4819 at Fort Drum, NY, per the request of the U.S. Army Engineering and Support Center, Huntsville under contract number W912DY-09-D-0045, Task Order 015. The purpose of the sampling and analysis was to determine if hazardous materials were present in the concrete floor of the building. The sampling and testing plan was coordinated in advance with Ms. Donna Mansulla, the Fort Drum Hazardous Waste Program Manager.

TABLE OF CONTENTS

<u>SECTION</u>	<u>Page</u>
1. INSPECTION SUMMARY and REPORT	1
 <u>APPENDICES</u>	
Appendix 1 Building 4819 Sample Locations	1-1
Appendix 2 PCB Sample Analysis Results	2-1
Appendix 3 TCLP-8 RCRA Metals Sample Analysis Results	3-1

Jones Stohosky Environmental Laboratory, Inc.

3325 SE Harrison Street, Milwaukie, OR 97222

Ph 503-659-8338 Fax 503-659-7577

www.jselabs.com



4 January 2012

Frankie Friend & Associates, Inc.
 Attn: Michael Allen
 2305 E Arapahoe Road, Suite 132
 Centennial, CO 80122

Re: Building 4819 concrete floor sampling, Ft. Drum, New York (revised)

Building 4819 is currently being used for hazardous material storage. Materials stored include used anti-freeze fluid, used oils, acids, bases, solvents, and other toxic materials. The floor was reportedly cleaned some time ago, and appeared clean without stains. Sampling was coordinated with Ms. Donna Mansulla, Ft. Drum Hazardous Waste Program Manager.

Samples were collected of the top 2 cm of the concrete floor of building 4819 at Ft. Drum on 12 December 2011 by Francis Stohosky of JSE Labs. Samples were collected in accordance with ASTM Standard D420-69.

Samples were taken from five relatively equally spaced locations and the center of the loading dock from each bay (bay 1 and bay 2, sample location plan attached). Subsamples from each bay were combined into a single composite sample for each bay. These samples were analyzed for PCB's and RCRA regulated metals (analysis attached). No metals or PCB's were detected in the samples. The following tables summarize the laboratory findings:

TCLP-8 RCRA Metals EPA Method 1311

JSE Labs Sample ID	Sample Description	Results in milligrams per Liter (mg/L)							
		Ag	As	Ba	Cd	Cr	Hg	Pb	Se
Pb1100314	4819, Bay 1	ND	ND	ND	ND	ND	ND	ND	ND
Pb1100315	4819, Bay 2	ND	ND	ND	ND	ND	ND	ND	ND

Reporting limit: 0.1 mg/L

Silver (Ag), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Mercury (Hg), Lead (Pb), Selenium (Se)

ND: None Detected.

EPA Method 8082

All concentrations listed in mg/Kg (ppm)

JSE Labs Sample ID	Client Sample Description	AROCHLOR #									Surrogate Recovery (%)
		1016	1221	1232	1242	1248	1254	1260	1260	1268	
OT1100312	4819, Bay 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.5
OT1100313	4819, Bay 1	ND	ND	ND	ND	ND	ND	ND	ND	ND	79.8

Blank: ND

Surrogate is Decachlorobiphenyl

Reporting limit: 1 ppm.

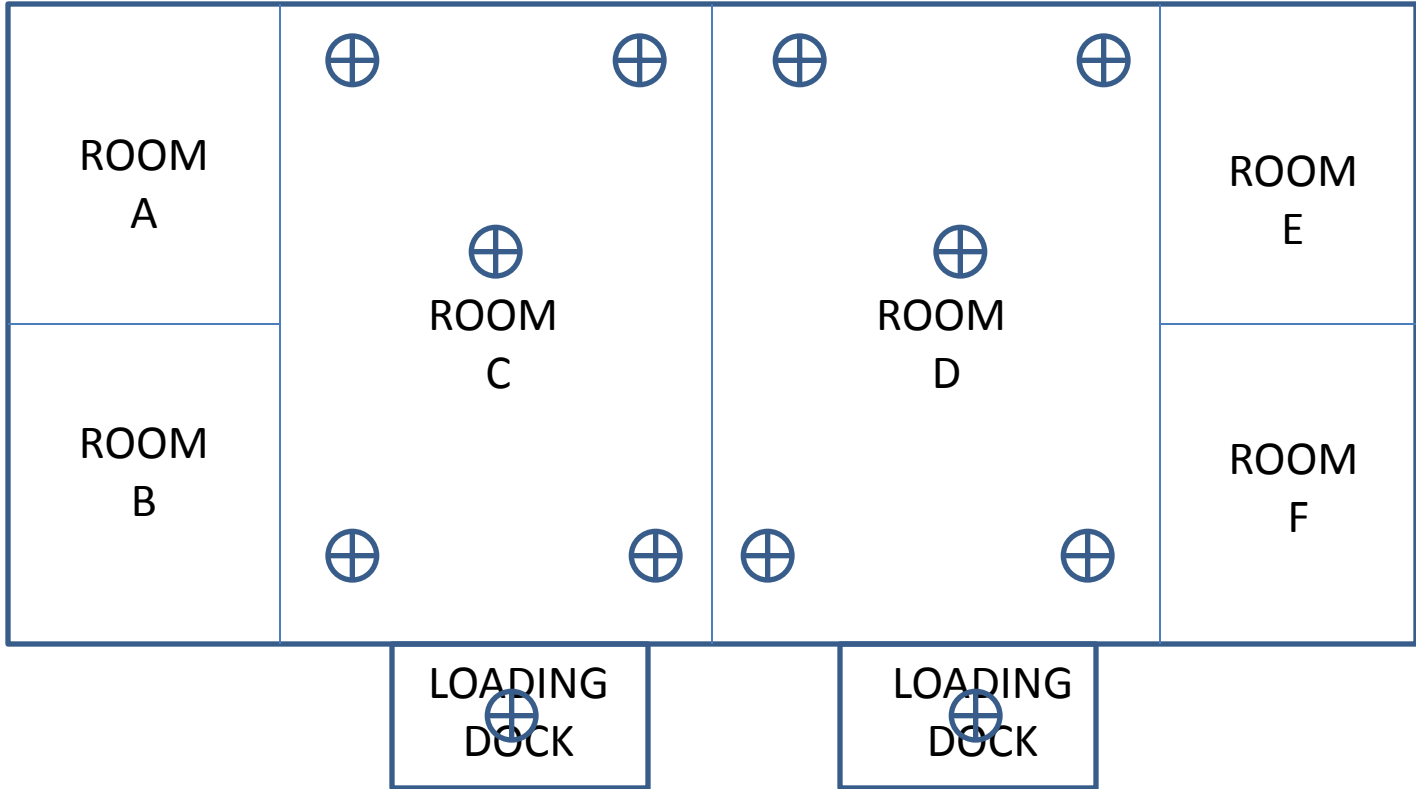
A handwritten signature in black ink, appearing to read 'Francis Stohosky'.

Francis Stohosky

Appendix 1

Bldg 4819 Sample Locations

Fort Drum
Building 4819

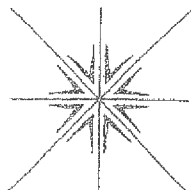


 Sample Locations

Appendix 2

PCB Sample Analysis Results

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
 Clackamas, OR 97015
 Phone: 503-607-1331
 Fax: 503-607-1336

Contact Person/Project Manager Tracy Currie
 Company JSE Labs, Inc
 Address 3325 SE Harrison Street
Milwaukie, OR 97222
 Phone 503-659-8338 Fax 503-659-7577
 Project No. 04127.70 Project Name 4819
 Project Site Location OR WA Other XX
 Invoice To Tracy P.O. No. 04127.70-OT312

Collected By: _____
 Signature _____
 Printed FS

Signature _____
 Printed _____

Turn Around Time

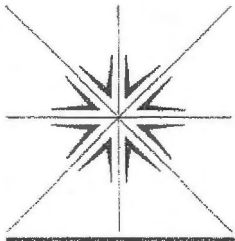
- Normal 5-7 Business Days
 Rush _____
 Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

No. of Containers	PCB	Analyses										For Laboratory Use						
													Lab Job No. <u>1112-163</u>	Shipped Via _____	Air Bill No. _____	Temperature On Receipt _____ °C	Specialty Analytical Containers? <input type="checkbox"/>	Specialty Analytical Trip Blanks? <input type="checkbox"/>

Date	Time	Sample I.D.	Matrix
12/16/11	1311	OT1100312	cement
12/16/11	1311	OT1100313	cement

Relinquished By: <u>Tracy</u> Company: <u>JSE Labs</u>	Date: <u>12/16</u>	Time: <u>1316</u>	Received By: _____ Company: _____	Relinquished By: _____	Date: _____	Time: _____
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)				Received For Lab By: <u>Cindy Hayward</u>	Date: <u>12/16/11</u>	Time: <u>16:40</u>



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

December 21, 2011

Tracy Currie
JSE Labs
3325 SE Harrison Street
Milwaukie, OR 97222
TEL: (503) 659-8338
FAX: (503) 659-7577

RE: 4819 / 04127.70

Dear Tracy Currie:

Order No.: 1112163

Specialty Analytical received 2 samples on 12/16/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hilliard
Project Manager


Technical Review

Specialty Analytical

Date: 21-Dec-11

CLIENT: ISE Labs
Project: 4819 / 04127.70

Lab Order: 1112163

Lab ID: 1112163-01
Client Sample ID: OT1100312

Collection Date: 12/16/2011 1:11:00 PM
Matrix: CEMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1221	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1232	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1242	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1248	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1254	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1260	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1262	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1268	ND	0.333		µg/Kg	1	12/20/2011
Surr: Decachlorobiphenyl	80.5	56.5-130		%REC	1	12/20/2011

Lab ID: 1112163-02
Client Sample ID: OT1100313

Collection Date: 12/16/2011 1:11:00 PM
Matrix: CEMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1221	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1232	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1242	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1248	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1254	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1260	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1262	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1268	ND	0.333		µg/Kg	1	12/20/2011
Surr: Decachlorobiphenyl	79.8	56.5-130		%REC	1	12/20/2011

CLIENT: JSE Labs
 Work Order: 1112163
 Project: 4819 / 04127.70

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-30280	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A						
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803462						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	5678	0	6667	0	85.2	56.5	130	0	0		

Sample ID: LCS-30280	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A						
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803463						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	70	0.333	66.67	0	105	44.3	137	0	0		
-------------------	----	-------	-------	---	-----	------	-----	---	---	--	--

Sample ID: 1112163-02AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A						
Client ID: OT1100313	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803464						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	86.67	0.333	66.67	0	130	56.6	123	0	0		S,MI
-------------------	-------	-------	-------	---	-----	------	-----	---	---	--	------

Sample ID: 1112163-02AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A						
Client ID: OT1100313	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803465						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	72.67	0.333	66.67	0	109	56.6	123	86.67	17.6	20	
-------------------	-------	-------	-------	---	-----	------	-----	-------	------	----	--

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 I - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: JSE Labs
Work Order: 1112163
Project: 4819 / 04127.70

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111220A						
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803461						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	63.33	0.333	66.67	0	95	85	115	0	0	
-------------------	-------	-------	-------	---	----	----	-----	---	---	--

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111220A						
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803468						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	66.67	0.333	66.67	0	100	85	115	0	0	
-------------------	-------	-------	-------	---	-----	----	-----	---	---	--

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Appendix 3

TCPL-8 RCRA Metals Sample Analysis Results

Report Number 80322

CHAIN OF CUSTODY

Environmental Sciences, Inc.
2415 SE 17th Ave. Portland Oregon 97214

Phone(503) 231-9320 FAX(503) 231-9344

Company ESS Labs Inc		Phone 503 659 8338					Comments Results by Friday, Dec 23rd please.					
Project # 04127.70		FAX 503 659 7577					EPA 8260B					
Project Name 4819		Purchase Order # 04127.70-OT314					EPA 8270 SIM (PAH)					
Site X		Report Attention Tracy	Collected By				EPA 8021B (BTEX)					
Samples:		Temperature	On Ice? Yes / No	Regular	3-5 Business Days	NW-TPH-DX						
LAB ID	Field ID	Sampling Date	Sampling Time	Matrix	Container	Volume	NW-TPH-GX	NW-TPH-CID	EPA 8021B (BTEX)	EPA 8270 SIM (PAH)	EPA 8260B	Analysis Requested
D8235	OT1100314	12/16	1800	Debris	Zaploc							TCLP 8
D8236	OT1100315	12/16	1800	Debris	Zaploc							TCLP 8
Relinquished by <i>Tracy</i>	Affiliation <i>ESS Labs</i>	Date 12/16/11	Time 1334	Received by <i>cy. den</i>		Affiliation <i>WY East</i>		Date 12/17/11	Time 7:00 am			
Relinquished by	Affiliation	Date	Time	Received by		Affiliation		Date	Time			



LABORATORY REPORT

Jones-Stohosky Environmental Laboratory
3325 SE Harrison St.
Milwaukie, OR 97222

PROJECT NAME: 4819
SITE LOCATION: 12/23/11
PROJECT NUMBER: 04127.70
REPORT NUMBER: 80322
REPORT DATE: 12/23/11
PAGE: Page 1 of 1

ICPMS(EPA 200.8) Metals Report - TCLP Concrete
EPA 1311
Silver (Ag) Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Mercury (Hg) Lead (Pb) Selenium (Se)

Field ID	LAB ID	Ag mg/L	As mg/L	Ba mg/L	Cd mg/L	Cr mg/L	Hg mg/L	Pb mg/L	Se mg/L	Sample	
										Collection Date	Batch
OT1100314	D8235	ND	ND	ND	ND	ND	ND	ND	ND	12/16/2011	11L2017A.B
OT1100315	D8236	ND	ND	ND	ND	ND	ND	ND	ND	12/16/2011	11L2017A.B
Blank		ND	ND	ND	ND	ND	ND	ND	ND		
Reporting Limit		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		



WyEast Environmental Sciences, Inc.

Quality Control Report for Metals by ICPMS

	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1112017A.B	0.00	1.12	0.00	0.00	0.00	3.77	0.00	0.00
BLANK	<10	<10	<10	<10	<10	<10	<10	<10
Acceptable Range	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
CONTROL								
LRB	0.00	0.86	0.00	0.00	0.00	3.84	0.00	0.00
Acceptable Range	<10	<10	<10	<10	<10	<10	<10	<10
CONTROL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
SB	125.00	136.40	111.50	122.90	123.90	--	124.00	112.70
Theoretical Value	125.00	125.00	125.00	125.00	125.00	--	125.00	125.00
Percent Recovery	100%	109%	89%	98%	99%	--	99%	90%
Acceptable Range	70%-130%	70%-130%	70%-130%	70%-130%	70%-130%	--	70%-130%	70%-130%
CONTROL	PASS	PASS	PASS	PASS	PASS	--	PASS	PASS
Calibration R ²	0.998	0.999	0.999	0.999	0.998	0.998	0.999	0.999
Acceptable Range	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990