

Insert this report after Specification Section 02072



Technical Report for

IMS Environmental

Langley Air Force Base-USACE-Pavement Area

351.3319

Accutest Job Number: F14574

Report to:

IMS Environmental
929 Professional Place
Chesapeake, VA 23320

ATTN: new contact

Total number of pages in report: 14



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

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Sample Summary

IMS Environmental

Job No: F14574

Langley Air Force Base-USACE-Pavement Area
Project No: 351.3319

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F14574-1	09/12/02	11:09 WB	09/14/02	SO	Soil	C-24-A 1'-2'
F14574-2	09/12/02	11:25 WB	09/14/02	SO	Soil	C-25-A 1'-2'
F14574-3	09/12/02	14:15 WB	09/14/02	SO	Soil	C-29-A 1'-2.5'
F14574-4	09/13/02	08:30 WB	09/14/02	SO	Soil	C-32-A 1'-2.5'
F14574-5	09/13/02	09:35 WB	09/14/02	SO	Soil	C-35-A 1'-2.5'
F14574-6	09/13/02	10:00 WB	09/14/02	SO	Soil	C-37-A 1'-2.5'
F14574-7	09/13/02	10:45 WB	09/14/02	SO	Soil	C-38-A 1'-2.5'
F14574-8	09/13/02	10:45 WB	09/14/02	SO	Soil	C-38-B 2'-6'
F14574-9	09/13/02	11:00 WB	09/14/02	SO	Soil	C-39-A 1'-2.5'
F14574-10	09/13/02	11:30 WB	09/14/02	SO	Soil	C-40-A 1'-2.5'
F14574-11	09/13/02	11:45 WB	09/14/02	SO	Soil	C-41-A 1'-3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	C-24-A 1'-2'	Date Sampled:	09/12/02
Lab Sample ID:	F14574-1	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	88.1
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23618.D	20	09/18/02	SKW	09/17/02	OP5878	GOP846
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range) ^a	201	190	mg/kg	
	TPH (JP-4 Range)	ND	190	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	78%		64-121%	

(a) TPH calculated as total area, pattern appears to be oil related.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-25-A 1'-2'	Date Sampled:	09/12/02
Lab Sample ID:	F14574-2	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	82.1
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23597.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	10	mg/kg	
	TPH (JP-4 Range)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		64-121%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-29-A 1'-2.5'	Date Sampled:	09/12/02
Lab Sample ID:	F14574-3	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23598.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	9.8	mg/kg	
	TPH (JP-4 Range)	ND	9.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	98%		64-121%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-32-A 1'-2.5'	Date Sampled:	09/13/02
Lab Sample ID:	F14574-4	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	84.0
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23599.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	9.8	mg/kg	
	TPH (JP-4 Range)	ND	9.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		64-121%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-35-A 1'-2.5'	Date Sampled:	09/13/02
Lab Sample ID:	F14574-5	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	90.9
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23600.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	8.9	mg/kg	
	TPH (JP-4 Range)	ND	8.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		64-121%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-37-A 1'-2.5'	Date Sampled:	09/13/02
Lab Sample ID:	F14574-6	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	85.3
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	OP23619.D	4	09/18/02	SKW	09/17/02	OP5878	GOP846
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	140	39	mg/kg	
	TPH (JP-4 Range)	ND	39	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		64-121%

(a) TPH calculated as total area, pattern consists of more than just JP-8.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-38-A 1'-2.5'	
Lab Sample ID:	F14574-7	Date Sampled: 09/13/02
Matrix:	SO - Soil	Date Received: 09/14/02
Method:	SW846 8015 M SW846 3550B	Percent Solids: 84.9
Project:	Langley Air Force Base-USACE-Pavement Area	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23602.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	9.6	mg/kg	
	TPH (JP-4 Range)	ND	9.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		64-121%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-38-B 2'-6'	
Lab Sample ID:	F14574-8	Date Sampled: 09/13/02
Matrix:	SO - Soil	Date Received: 09/14/02
Method:	SW846 8015 M SW846 3550B	Percent Solids: 73.0
Project:	Langley Air Force Base-USACE-Pavement Area	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23603.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	11	mg/kg	
	TPH (JP-4 Range)	ND	11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		64-121%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-39-A 1'-2.5'	
Lab Sample ID:	F14574-9	Date Sampled: 09/13/02
Matrix:	SO - Soil	Date Received: 09/14/02
Method:	SW846 8015 M SW846 3550B	Percent Solids: 89.2
Project:	Langley Air Force Base-USACE-Pavement Area	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23606.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	10.1	9.1	mg/kg	
	TPH (JP-4 Range)	ND	9.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	93%		64-121%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-40-A 1'-2.5'	Date Sampled:	09/13/02
Lab Sample ID:	F14574-10	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	91.2
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23607.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range)	ND	9.0	mg/kg	
	TPH (JP-4 Range)	ND	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		64-121%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C-41-A 1'-3'	Date Sampled:	09/13/02
Lab Sample ID:	F14574-11	Date Received:	09/14/02
Matrix:	SO - Soil	Percent Solids:	84.7
Method:	SW846 8015 M SW846 3550B		
Project:	Langley Air Force Base-USACE-Pavement Area		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP23608.D	1	09/17/02	SKW	09/17/02	OP5878	GOP845
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (JP-8 Range) ^a	12.2	9.7	mg/kg	
	TPH (JP-4 Range)	ND	9.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		64-121%

(a) TPH calculated as total area, pattern consists of more than just JP-8.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

