

MK-101-K25-032¹



0045187

MARTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831-7440

July 16, 1991

Ms. Joan Kessner
Westinghouse Hanford Company
Office of Sample Management
2355 Stevens Drive
Richland, Washington, 99352



Dear Ms. Kessner:

Analytical Results Package on Project 90-027: Underground Storage Tanks Samples

Attached are the analytical results on five (5) Underground Storage Tanks soil samples, Project 90-028, received into the K-25 Site Analytical Chemistry Department (ACD) laboratories on March 9, 1991. Also attached are copies of the Chain of Custody records for the samples, and a sample identification table. As previously requested in the letter dated December 20, 1990, the results are reported in ACD's AnaLis report format. All data quality objectives were satisfied on this project.

Total Petroleum Hydrocarbons

The total petroleum hydrocarbons analysis was performed by ACD's TP-184203 method, an extraction method for determination of total petroleum hydrocarbons in solids. TP-184203 is a modification of EPA 418.1.

Ms. Joan Kessner

2

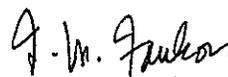
July 16, 1991

I certify that this data package is in compliance with the terms and conditions of the OSM's revised Statement of Work and letter dated December 20, 1990, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sincerely,



Deborah L. Amburgey
Program Manager
Hanford Support Program



Fred M. Faulcon
Program Manager
Waste Management Analysis



Clarence R. Kirkpatrick
Acting Department Manager
K-25 Site Analytical Chemistry Department

Attachments

cc/attach: D.L.Amburgey
S.R.Smith - RC

cc: N.P.Buddin
H.H.Sullivan

SAMPLE IDENTIFICATION TABLE FOR PROJECT 90-027

UNDERGROUND STORAGE TANKS SAMPLES

Date Group Received	OSM Sample ID	Lab Sample ID	Matrix	Comments
3/09/91	MK-101	910311-006	soil	
	MK-102	910311-007	soil	
	MK-103	910311-008	soil	
	MK-104	910311-009	soil	
	MK-105	910311-010	soil	

Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
15-JUL-1991 12:43

AnalIS ID: 910311-006 Project: G132 027S Customer Sample ID: MK-101
Customer: KESSNER/ROOS Requisition Number:
Date Sampled: 5-MAR-1991 Date Sample Received: 9-MAR-1991
Sampled By: Date Sample Completed: 7-APR-1991
Material Description: SOIL [] : Result has been Corrected for Spike

Activ. Number	Procedure No.	Analysis	Result	Units	Analyst	QA File Number	Date Completed
184203	TP-184203	Petroleum Hydrocarbons	2.366	%	JC OSBORNE	91-4	6-APR-1991

Program Manager: D. L. Amburgey
Date Approved: 8-APR-1991

Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
15-JUL-1991 12:43

AnalIS ID: 910311-007 Project: G132 027S Customer Sample ID: MK-102
Customer: KESSNER/ROOS Requisition Number:
Date Sampled: 5-MAR-1991 Date Sample Received: 9-MAR-1991
Sampled By: Date Sample Completed: 7-APR-1991
Material Description: SOIL [] : Result has been Corrected for Spike

Activ. Number	Procedure No.	Analysis	Result	Units	Analyst	QA File Number	Date Completed
184203	TP-184203	Petroleum Hydrocarbons	2.948	%	JC OSBORNE	91-4	6-APR-1991

Program Manager: D. L. Amburgey
Date Approved: 8-APR-1991

Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
15-JUL-1991 12:43

AnalIS ID: 910311-008 Project: G132 027S Customer Sample ID: MK-103
Customer: KESSNER/ROOS Requisition Number:
Date Sampled: 5-MAR-1991 Date Sample Received: 9-MAR-1991
Sampled By: Date Sample Completed: 7-APR-1991
Material Description: SOIL ☐ : Result has been Corrected for Spike

Activ. Number	Procedure No.	Analysis	Result	Units	Analyst	QA File Number	Date Completed
184203	TP-184203	Petroleum Hydrocarbons	0.057	%	JC OSBORNE	91-4	6-APR-1991

Program Manager: D. L. Amburgey
Date Approved: 8-APR-1991

Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
15-JUL-1991 12:43

AnalIS ID: 910311-009 Project: G132 027S Customer Sample ID: MK-104
Customer: KESSNER/ROOS Requisition Number:
Date Sampled: 5-MAR-1991 Date Sample Received: 9-MAR-1991
Sampled By: Date Sample Completed: 7-APR-1991
Material Description: SOIL [] : Result has been Corrected for Spike

Activ. Number	Procedure No.	Analysis	Result	Units	Analyst	QA File Number	Date Completed
184203	TP-184203	Petroleum Hydrocarbons	<0.001	%	JC OSBORNE	91-4	6-APR-1991

Program Manager: D. L. Amburgey
Date Approved: 8-APR-1991

Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
15-JUL-1991 12:44

AnalIS ID: 910311-010 Project: G132 027S Customer Sample ID: MK-105
Customer: KESSNER/ROOS Requisition Number:
Date Sampled: 5-MAR-1991 Date Sample Received: 9-MAR-1991
Sampled By: Date Sample Completed: 7-APR-1991
Material Description: SOIL [] : Result has been Corrected for Spike

Activ. Number	Procedure No.	Analysis	Result	Units	Analyst	QA File Number	Date Completed
184203	TP-184203	Petroleum Hydrocarbons	12.592	%	JC OSBORNE	91-4	6-APR-1991

Program Manager: D. L. Amburgey
Date Approved: 8-APR-1991

MARTIN MARIETTA

CHAIN OF CUSTODY RECORD

MARTIN MARIETTA ENERGY SYSTEMS, INC.

STA # 0006-90
ACD/COC NO: 1752

ANALYTICAL CHEMISTRY DEPARTMENT

PROJECT NUMBER:		PROJECT NAME			NO. OF CONTAINERS	REMARKS
90-027		182-N-DT				
SAMPLERS: (SIGNATURE)					NO. OF CONTAINERS	REMARKS
<i>Richard Rees</i>						
CUSTOMER NUMBER	ACD NUMBER	SAMPLING		SAMPLE TYPE	NO. OF CONTAINERS	REMARKS
		DATE	TIME			
MK-101	K-25	3/5/91	1438	Soil	1	910311-006
MK-102	↓		1450		1	-007
MK-103			1459		1	-008
MK-104			0800		1	-009
MK-105			1519		1	-010

EPA 418-1 TPAH

RELINQUISHED BY: (Signature) <i>Richard Rees</i>	Date 3/5/91	Time 1523	RECEIVED BY: (Signature) <i>C. Miller</i>	Date 3-5-91	Time 1523	RELINQUISHED BY: (Signature) <i>C. Miller</i>	Date 3-8-91	Time 1047	RECEIVED BY: (Signature) <i>J. D. ...</i>	Date 3/19/91
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY: (Signature)	Date	Time	RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY: (Signature)	Date

COOLER RECEIPT FORM
for SOP 2332

File with receiving
and C-O-C records.

Date: 3-9-91 Shipper ID and Document No: 242615928 5

Cooler ID if noted on outside of cooler: WHC

Project No: 6132 Subproject No: 027 Site Location: Hanford

Custody seal on cooler? Yes No

Condition of cooler acceptable? Yes No

Radioactive labels? Yes No

Hazardous labels? Yes No

Custody form(s) inside of cooler? Yes No

Was cooler required to be maintained at 4 deg C? Yes No

Sample containers intact? Yes No

Are containers those specified for requested parameters? Yes No

Date of login: _____

Lab assigned ID No: _____

Thru _____

Custody seals dated and signed? Yes No

Prog. Mgr. notified of receipt of cooler? Yes No

Radioactivity recheck OK? Yes No

Samples properly labeled? Yes No

Custody form(s) properly completed and signed? Yes No

Thermometer inside of cooler? Yes No

Temperature of cooler: 4 deg C (X.X)

VOA containers free of bubbles? NA ~~Yes~~ ~~No~~

Additional information needed from Prog. Mgr.? Yes No

NOTE: Nitrite-N, Nitrate-N, o-Phosphate-o-Phosphate-P have 48-hour holding time. LOG IN THESE FIRST - ASAP

The lab numbers plus the project number are used for tracking purposes.

Comments:

Signed: J. Danes

Custody seal on cooler was broken.

LABORATORY STATUS REPORT FOR E 4273, E-BLANK ANALYSIS TIME: 07 7791 8187
DATE RECEIVED: 07 0791 0430 SAMPLE HAS NOT BEEN SLURPED
LABORATORY: 07 0791 0430

DATE: 07 0791 0430 ANALYSIS: 07 0791 0430 OUT OF 200 0.0000
LABORATORY: 07 0791 0430 SAMPLE HAS NOT BEEN SLURPED ANALYSIS: 07 0791 0430
DATE: 07 0791 0430 ANALYSIS: 07 0791 0430 IN Y 0.0000

END OF REPORT

FORM OF PAYMENT				SERVICES			
CASH <input type="checkbox"/> GBL <input type="checkbox"/>		FCCOD <input type="checkbox"/>		UNITED STATES / CANADA		INTERNATIONAL	
PPD <input checked="" type="checkbox"/> COL <input type="checkbox"/> OTH <input type="checkbox"/> COMAT <input type="checkbox"/>				<input type="checkbox"/> Same Day <input type="checkbox"/> AM <input type="checkbox"/> Second Day		<input checked="" type="checkbox"/> O'NITE Express <input type="checkbox"/> PM Preferred <input type="checkbox"/> Saturday Delivery <input type="checkbox"/> S.S.S. Standard <input type="checkbox"/> Business Documents <input type="checkbox"/> Customs Clearance <input type="checkbox"/> Delivery	
Shipper's Account Number		EMERY WORLDWIDE		Date		Shipment Number	
E 850281585		A CF Company		03-08-91		PSC 242615928 5	
From:				To:			
WESTINGHOUSE SHIPPING DEPT (509) 376-6665				US DOE C/O MARTIN MARIETTA ENERGY SYS			
WESTINGHOUSE HANFORD				OAK RIDGE GASEOUS DIFFUSION PLANT			
BLDG 1163				BLAIR ROAD, HIGHWAY 58			
2355 STEVENS DRIVE				OAK RIDGE TN			
RICHLAND WA				Canada <input type="checkbox"/>			
Customer's Reference Numbers		Consignee's Account Number		Tariff Dest.		Gateway	
CC: E14BG W91-0207#7		99352		E 37831			
Description		Dimensions		Total Pieces		Total Weight (in Lbs)	
POLYCOOLER SOIL SAMPLE "BE-2"		1 21 1/2 15		1		40	
TODSR <input type="checkbox"/> Haz Mat <input type="checkbox"/> Edit <input type="checkbox"/>		A B C D E F G		X 2 3 4 5 6		FOR INFORMATION OR RATES CALL 1-800 HI EMERY (1-800-443-6379)	
OVERNIGHT DELIVERY SIGNATURE SECURITY SERVICE		H I J K		7 8 9 0 1 2		Declared Value \$	
Shipper's Signature <i>X</i>		Third Party Account Number		Pack		D	
Commodity Code		Third Party Account Number		9X12 X			
International Shipments		Third Party Account Number		12X15 X			
From Domestic <input type="checkbox"/>		Third Party Account Number					
Commodity Code		Third Party Account Number					
International Customs Value		International Insurance					
Base Charge		Total Transportation Charges		Other Charges/Advance of Open			
				OC/O		\$	

206

SAT

Terms and Conditions on Back

EMERY
WORLDWIDE



20

DATE: 03-03-91 SHIPMENT NO.: PSC 242615928 5
SHIPPER WESTINGHOUSE HANFORD CO. SHIPPING DEP
REFERENCE NO.: OSPC# W91-0207#7

SIGNATURE AND TALLY RECORD

SHIPPER NAME AND ADDRESS

US DEPARTMENT OF ENERGY
C/O WESTINGHOUSE HANFORD COMPANY
SHIPPING DEPARTMENT (509) 376-6665
2355 STEVENS DRIVE
PO BOX 1970 (M/S 62-06)
RICHLAND WA 99352

CONSIGNEE NAME AND ADDRESS

US DEPARTMENT OF ENERGY
MARTIN MARIETTA ENERGY SYSTEMS
OAK RIDGE GASEOUS DIFFUSION PLANT
BLAIR ROAD, HIGHWAY 58
OAK RIDGE TN 37831-7440

Pieces XXX 1	Weight 40 LB	Description/Marks POLYCOOLER "BE-2" -- SOIL SAMPLES	Emery Authorization No.
------------------------	------------------------	---	-------------------------

EACH PERSON HANDLING OR TAKING CUSTODY OF THIS SHIPMENT MUST SIGN AND COMPLETE THE INFORMATION BELOW

Name of Person/Company	Transship Point/Destination	Signature of Person Accepting Custody	Time/Date
1. JOYCE DEMAREST WESTINGHOUSE HANFORD CO 1167A WHE/1100 AREA	RICHLAND, WA		13-8-
2. [Signature]			
3. Ted [Signature]	Portland	Ted [Signature]	10:5 3/91
4. [Signature]			
5. [Signature]	PDV	[Signature]	11:30 3/91
6. [Signature]	MDY	[Signature]	0250 3/91
7. Billy [Signature]	TYS	[Signature]	0900 3/91
8. Luther [Signature]	TYS	[Signature]	0940 3/91

SPECIAL HANDLING INSTRUCTIONS
J. Dodson

K-25
CONSIGNEE COPY J. Dodson 12:52 3/91

MARTIN MARIETTA ENERGY SYSTEMS, INC.
OAK RIDGE, TENNESSEE 37831

Acting Under U.S. Government Contract DE-AC05-84OR21400 With the U.S. D.O.E.

SHIPPING ORDER

MATERIAL TO BE SHIPPED LOCATION		CONTACT (PERSON) 6-7715 D.L. Amburgey	OUR PURCHASE ORDER NO. RELEASE NO.	R. R. NO.	DATE ISSUED 7/15/91	SHIPPING ORDER NO. K25370
SHIPPED BY MARTIN MARIETTA ENERGY SYSTEMS, INC. POST OFFICE BOX 2003 K-25 PLANT, OAK RIDGE, TENNESSEE 37831			SHIP VIA (AS CODED) A. MOTOR FREIGHT B. RAIL FREIGHT E. PREMIUM TRANSPORT (AS SHOWN) F. NON-PREMIUM PARCEL (AS SHOWN) H. CONSIGNEE'S TRUCK J. CARTAGE CONTRACTOR K. BUS L. OTHER (AS SHOWN) M. COMPANY TRUCK CIF 24		DELIVER BY DATE:	DATE SHIPPED:
VENDOR-PAYEE CODE	SHIP TO: MS. JOAN KESSNER WESTINGHOUSE HANFORD Co. / OSIM 2355 STEVENS DR RICHLAND, WA 99352		INSURANCE: 1		PARCEL POST DATA ZONE _____ POSTAGE _____ WEIGHT _____ INSURANCE FEE _____ TOTAL _____ CAR/PRO-NUMBER _____	
TRANSPORTATION ACCOUNT CHARGE 114643301	TRANSPORTATION TERMS (AS CODED) 2 1. COLLECT 3. GOVERNMENT B/L 5. PREPAID/DEBIT 2. PREPAID 4. DEADHEAD SELLER'S ACCOUNT		1. ACCOUNT OF GOV'T. DO NOT INSURE. 2. ACCOUNT OF CONSIGNEE. 3. OTHER (SEE BELOW).		VALUATION (FOR SHIPPING PURPOSES ONLY)	
NUMBER AND KIND OF CONTAINERS	GROSS WEIGHT	PURPOSE:		HAZARDOUS MATERIAL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

AUTHORITY (PURCHASE ORDER, CONTRACT NUMBER, OR OTHER OFFICIAL DOCUMENT)

INSTRUCTIONS
OVERNIGHT

ESTIMATED DATE OF RETURN

S. O. ITEM NO.	STORES SYMBOL OR PROPERTY NO.	DESCRIPTION OF MATERIAL, SERIAL NO., MODEL NO., ETC.	QUANTITY	UNIT	UNIT VALUE	TOTAL VALUE
		DATA				

91 JUL 10 PM 1:53

HAZARDOUS SHIPMENT CHECKLIST: SEE FEDERAL REGULATIONS CODES 40 AND 49

1. MATERIAL'S PROPER SHIPPING DESCRIPTION _____	8. CONTAINER NUMBER _____
2. FLASH POINT, IF APPLICABLE _____	9. PACKAGING NOTATION _____
3. HAZARD CLASS _____	10. TYPE LABELS REQUIRED _____
4. MANUFACTURER'S BRAND NAME _____	11. TYPE PLACARD REQUIRED _____
5. PHYSICAL AND CHEMICAL FORM _____	12. SPECIAL NOTATION/ INSTRUCTIONS _____
6. WEIGHT OF CONTENTS _____	13. GREEN TAG APPLIED <input type="checkbox"/> Yes <input type="checkbox"/> No
7. CONTAINER TYPE _____	

ACCOUNT	AMOUNT \$	ACCOUNT	AMOUNT \$	NOTICE TO CONSIGNEE
DEBIT		CREDIT		PLEASE USE ABOVE SHIPPING ORDER NO. AND PURCHASE ORDER NO. IN CORRESPONDENCE OR QUESTIONS REGARDING THIS SHIPMENT. ALSO USE THEM TO IDENTIFY RETURN OF ABOVE MATERIAL TO MARTIN MARIETTA ENERGY SYSTEMS, INC.
DEBIT		CREDIT		
DEBIT		CREDIT		
DEBIT		CREDIT		

AUTHORIZED SIGNATURE AND DIVISION: **[Signature]** 3772

SHIPPING DEPT. APPROVAL: **[Signature]**

PAGE: **1** OF **1**