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MK-101-K25-032 15 R

MARTIN MARIETTA

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

COOLER RECEIPT FORM
for SOP 2332File with receiving
and C-O-C records.Date: 3-9-91 Shipper ID and Document No: 242615928 5Cooler ID if noted on outside of cooler: WHCProject No: 6132 Subproject No: 027 Site Location: HanfordCustody seal on cooler? Yes NoCondition of cooler
acceptable? Yes No Radioactive labels? Yes No Hazardous labels? Yes No Custody form(s) inside
of cooler? Yes NoWas cooler required to
be maintained at 4 deg C? Yes NoSample containers intact? Yes NoAre containers those
specified for requested
parameters? Yes No

Date of login: _____

Lab assigned ID No: _____

Thru _____

Custody seals dated and signed? Yes NoProg. Mgr. notified of
receipt of cooler? Yes NoRadioactivity recheck OK? Yes No Samples properly labeled? Yes NoCustody form(s) properly
completed and signed? Yes NoThermometer 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 NoNOTE: 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. Daniels

Custody seal on cooler was broken.

SAMPLE STATUS REPORT FOR E 4275. E-BLANK KACDYP TIME: 07/7/91 8:57
 DISPATCHED: 07/6/91 8:30 SAMPLE HAS NOT BEEN SLURPED
 RECEIVED: 07/7/91 8:25

EXT.	METER.	RESULTS OR STATUS	OUT OF	SLID	CHARGE
			RANGE?	WET?	CODE
271	TOT-ACT	0.500000E 01 PICI/3	N	Y	EDGE6

END OF REPORT

FORM OF PAYMENT

SERVICES

CASH GBL CBL FCCOD

PPD COL OTH COMAT

**EMERY
WORLDWIDE**



UNITED STATES / CANADA
 Same Day
 AM
 Second Day
 O'NITE Express
 PM
 Saturday Delivery
 S.S.S. Preferred
 Standard
 INTERNATIONAL
 Business Documents
 Customs Clearance
 Delivery

Shipper's Account Number
E 850281585

Date: 03-08-91
 Origin: PBC
 Shipment Number: 242615928 5

From: WESTINGHOUSE SHIPPING DEPT (509) 376-6665
 WESTINGHOUSE HANFORD
 BLDG 1163
 2385 STEVENS DRIVE
 RICHLAND WA

To: US DOE C/O MARTIN MARIETTA ENERGY SYS
 OAK RIDGE GASEOUS DIFFUSION PLANT
 BLAIR ROAD, HIGHWAY 58
 OAK RIDGE IN

Tariff Dest. Gateway
 Check to Shipper \$
 EMERY WORLDWIDE will collect consignee's check made payable only to the shipper for the value of the goods in the amount shown above.

Customer's Reference Numbers
 CC:EJ48G W91-0207#7 99352

Consignee's Account Number
E 37831

Description	Pcs	Dimensions			Total Pcs	Total Weight (in Lbs)
		L	W	H		
POLYCOOLER SOIL SAMPLE "BE-2"	1	23	15	1	1	40

FOR INFORMATION OR RATES
 CALL 1-800 HI EMERY
 (1-800-443-6379)

Declared Value \$

TOOSR Haz Mat Edit

A	B	C	D	E	F	G	X	2	3	4	5	6	
						H		7	8	9	0	1	2
						I							
						J							
						K							

OVERNIGHT DELIVERY
 SIGNATURE SECURITY SERVICE

Shipper's Signature



International Shipments

Commodity Code

Third Party Account Number

International Customs Value

International Insurance

Base Charge

Total Transportation Charges

Other Charge: Advance at Origin OC/NO \$

206

SAT

Terms and Conditions on Back

20

6139210195



20

DATE: 03-08-91 SHIPMENT NO.: PSC 242615928 5
 SHIPPER WESTINGHOUSE HANFORD CO. SHIPPING DEPT
 REFERENCE NO.: OSPCA W91-020717

SIGNATURE AND TALLY RECORD

50029-46 (8/89) Ltrn USA

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 WISE/1100 AREA	RICHLAND, WA		13-8
2. [Signature]	[Signature]	[Signature]	
3. Ted Wilson, EWN	Richland	Ted Wilson	10:55 3/91
4. [Signature]	[Signature]	[Signature]	
5. [Signature]	PDY	[Signature]	11:30 3/91
6. [Signature]	HDY	[Signature]	0250 3/91
7. Billy Spiller	TYS	[Signature]	0901 3/91
8. Luther Harkley	TYS	L. Harkley	09:40 3/91
Roger D. [Signature]	K-25	[Signature]	12:52 3/91

SPECIAL HANDLING INSTRUCTIONS

[Signature]

K-25
 CONSIGNEE COPY

[Signature]

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) <i>D.L. Amburgey</i>	OUR PURCHASE ORDER NO. RELEASE NO.	R. R. NO.	DATE ISSUED <i>7/15/91</i>	SHIPPING ORDER NO. K25370
SHIPPED BY MARTIN MARIETTA ENERGY SYSTEMS, INC.			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 <i>CIF</i>		DELIVER BY DATE:	
POST OFFICE BOX <i>2003 K-25</i> PLANT, OAK RIDGE, TENNESSEE 37831			SHIPPING ORDER ORIGINATED BY		DATE SHIPPED:	
VENDOR PAYEE CODE	SHIP TO: <i>MS. JOAN KESSNER WESTINGHOUSE HANFORD Co. /OSM 2355 STEVENS DR RICHLAND, WA 99352</i>		INSURANCE: <i>1</i>		PARCEL POST DATA ZONE _____ POSTAGE _____ WEIGHT _____ INSURANCE FEE _____ TOTAL _____ CAR/PRO-NUMBER _____	
TRANSPORTATION ACCOUNT CHARGE <i>14643301</i>	TRANSPORTATION TERMS (AS CODED) <i>2</i> 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:				
AUTHORITY (PURCHASE ORDER, CONTRACT NUMBER, OR OTHER OFFICIAL DOCUMENT)					HAZARDOUS MATERIAL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

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 \$ ¢
		<i>DATA</i>				

91 JUL 18 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