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**COMPREHENSIVE
MONITORING REPORT
FOR
UNDERGROUND STORAGE
TANK 0134-U
AT BUILDING 9204-2**

**OAK RIDGE Y-12 PLANT
OAK RIDGE, TENNESSEE
FACILITY ID #0-010117**

April 1995

**Environmental Management Department
Health, Safety, Environment,
and Accountability Organization**

**MANAGED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY**

MASTER

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OAK RIDGE, TENNESSEE
FACILITY ID #0-010117**

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**Environmental Management Department
Health, Safety, Environment,
and Accountability Organization**

Prepared by

**Science Applications International Corporation
Under Subcontract 22B-99069C
for the
Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831**

Managed by

**Martin Marietta Energy Systems, inc.
for the
U.S. Department of Energy
Under Contract No. DE-AC05-84OR21400**

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LIST OF ACRONYMS

BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
Energy Systems	Martin Marietta Energy Systems, Inc.
LEL	lower explosive limit
TDEC	Tennessee Department of Environment and Conservation
TGD	Technical Guidance Document
TPH-GRO	total petroleum hydrocarbons-gasoline range organics
UEFPC	Upper East Fork Poplar Creek
UST	underground storage tank
ΣBTX	total benzene, toluene, and xylenes

SIGNATURE PAGE

I certify under penalty of law, including but not limited to penalties for perjury, that the information contained in this report and on any attachments, is true, accurate, and complete to the best of my knowledge, information, and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for intentional violations.

See Attached Certification
Owner/Operator (Print)

Signature

Date

William D. Keefer
P.E. or P.G. (Print)

William D. Keefer / TN3328
Signature TN Lic./Reg. #

4/19/95
Date

If a P.E. signs this report, please indicate the area of expertise.

(Print or Type)

(P.E./P.G. Stamp/Seal)

County of Anderson State of Tennessee

Subscribed and Sworn to before me this

19 day of April, 19 95.

Suzanne Knott
Notary Public

My Commission expires: 01-27-96 (Notary Seal)

**CERTIFICATION STATEMENT FOR THE
COMPREHENSIVE MONITORING REPORT FOR
THE UNDERGROUND STORAGE TANK 0134-U,
AT BUILDING 9204-2**

I certify that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

U.S. Department of Energy
Owner and Operator

By:

R.J. Spence
Department of Energy, Y-12 Site Manager

5/14/95
Date Signed

Martin Marietta Energy Systems, Inc.
Co-Operator

By:

Dinah L. Sexton

T.R. Butz
Martin Marietta Energy Systems, Inc.
Y-12 Plant Manager

5/11/95
Date Signed

Note: Both signatures have been notarized per requirements.

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this document is to present potentiometric, groundwater quality, and vapor monitoring data required for Comprehensive Monitoring of underground storage tank (UST) 0134-U at the Oak Ridge Y-12 Plant Building 9204-2 Site. Comprehensive monitoring has been conducted at the site as part of a Monitoring Only program approved by the Tennessee Department of Environment and Conservation (TDEC) based on review and approval of Site Ranking (Site Ranking Form approved March 9, 1995). Site Status Monitoring will be conducted semiannually. Comprehensive monitoring and preparation of this report have been conducted in accordance with the requirements of TDEC Rule 1200-1-15 and the TDEC *UST Reference Handbook, Second Edition* (TDEC 1994) Technical Guidance Document (TGD) 007. In addition, soil and groundwater sampling results that were used to support site ranking are included as part of this report.

This document is organized into four sections. Section 1 presents introductory information relative to the site including the regulatory initiative and a site description. Section 2 includes the results of water level measurements and sampling of monitoring wells GW-204, GW-656, GW-805, GW-806, and GW-807. Section 3 presents data from vapor monitoring conducted in subsurface utilities present at the site. Section 4 presents the results of soil sampling performed in support of site ranking.

1.2 SITE DESCRIPTION

The Building 9204-2 Site is located within the central portion of the Oak Ridge Y-12 Plant in Oak Ridge, Tennessee (Figure 1-1). This area is within the Protected Area of the Y-12 Plant, which is access restricted. The UST site is generally defined as the area directly east of Building 9204-2 and southwest of Building 9720-30 (Figure 1-2). The site was previously the location of a gasoline UST used to fuel an emergency generator at Building 9204-2. The tank has been excavated and removed from the site.

The UST was a 117-gallon gasoline tank that was first suspected of leaking in 1988. Tank 0134-U was excavated on August 26, 1988, and several small holes were observed in the tank wall during removal. Initial Abatement/Tank Removal and Site Investigation/Environmental Assessment sampling indicated no presence of petroleum contamination in soil above applicable TDEC Closure Action Levels, but petroleum contamination of groundwater above applicable TDEC Closure Action Levels was identified. A Corrective Action Plan (CAP) for groundwater remediation was prepared and approved, and Baseline Monitoring was performed in support of corrective action during August, 1993. Baseline monitoring data were submitted to TDEC in March 1994 as part of a Closure Report. Additional soil and groundwater samples were collected to support Site Ranking before determining the disposition of the site. These samples indicated that contaminant concentrations were sufficiently low and contaminant exposure

Figure 1-1.

MARTIN MARIETTA ENERGY SYSTEMS, INC.
ENVIRONMENTAL MANAGEMENT DEPARTMENT
LOCATION OF THE BUILDING 9204-2 SITE
AT THE OAK RIDGE Y-12 PLANT

Figure 1-2. Building 9204-2 Site Map.

sufficiently limited in extent to qualify for a Monitoring Only program in lieu of active remediation.

The topography of the Building 9204-2 Site gently decreases in elevation from northwest to southeast across the facility. A surface water and groundwater divide coincident with the trace of Upper East Fork Poplar Creek (UEFPC) lies approximately 700 ft southeast of the site. Given the nature of the surface topography in the vicinity of the Building 9204-2 Site, any petroleum contamination resulting from past UST operations would be expected to generally migrate southeast away from the source area.

2.0 GROUNDWATER MONITORING

2.1 GROUNDWATER MEASUREMENT, SAMPLE COLLECTION, AND ANALYSIS

2.1.1 Well Locations

As directed by TDEC, all existing monitoring wells at the site have been measured and sampled as part of the Monitoring Only program. These wells are GW-204, GW-656, GW-805, GW-806, and GW-807. The locations of these wells are presented in Figure 2-1. Well installation reports and construction details for monitoring wells GW-204 and GW-656 are presented in the CAP for the Site [*Corrective Action Plan for Underground Storage Tank 0134-U at the Building 9204-2 Site*, Appendix C, Y/SUB-92-99928C/4 (Energy Systems 1992)]. Well installation reports and construction details for monitoring wells GW-805, GW-806, and GW-807 that were installed in July 1993, are presented in the Closure Report for the Site [*Closure Report for Underground Storage Tank 0134-U, Building 9204-2*, Appendix B, Y/SUB/94-99069C/Y15/5 (Energy Systems 1994)].

2.1.2 Groundwater Measurement and Sampling

All groundwater monitoring wells at the Building 9204-2 Site were measured for water level and sampled for the applicable petroleum constituents on March 29, 1995 as part of comprehensive monitoring. All wells were measured for static water level and purged prior to sampling. Monitoring well GW-656 was purged of three well volumes, and wells GW-204, GW-805, GW-806, and GW-807 were purged to dryness (between 1 and 3 well volumes). Field measurement of pH, conductivity, temperature, and dissolved oxygen was conducted during purging to ensure representativeness for sampling. Well GW-805 demonstrated an elevated water temperature, but all other parameters were generally consistent across the site. The wells were allowed to recover, and samples were collected for analysis using a bailer and then transferred into pre-prepared bottles. No measurable free product was encountered during water level measurement or sampling in any of these wells. However, a slight petroleum odor was observed during purging of well GW-204.

All of the groundwater monitoring wells at the Building 9204-2 Site were also measured for water level and sampled for the applicable petroleum constituents on September 2, 1994 to support site ranking. The same approach to sampling was used, however only wells GW-204 and GW-807 were purged to dryness without producing 3 well volumes. Well GW-805 had an elevated water temperature, but all other parameters were generally consistent across the site. No measurable free product was observed during water level measurement or sampling, but a slight oily sheen was noted in well GW-656.

Figure 2-1. Location of Groundwater Monitoring Wells at the Building 9204-2 Site.

2.1.3 Sample Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons-gasoline range organics (TPH-GRO), and for benzene, toluene, ethylbenzene, and xylenes (BTEX) at the Y-12 Plant Environmental Laboratory (a TDEC Division of UST approved laboratory). Analytical laboratory reports for groundwater sampling during Comprehensive Monitoring (3/95) and Site Ranking (9/94) are included in Appendix A.

2.2 POTENTIOMETRIC DATA

Potentiometric data for monitoring wells at the Building 9204-2 Site from the comprehensive monitoring and site ranking measurement events are presented in Table 2-1. Figures 2-2 and 2-3 present potentiometric contour maps from these two periods. These figures indicate the presence of slightly irregular potentiometric surface with a generally easterly gradient. The apparent northerly deflection of the potentiometric gradient in the southern portion of the site may be due to small differences in head between unconsolidated and weathered bedrock wells. The 800-series wells at the site were all completed in unconsolidated material at shallow depths (9.6-12.2 ft BGS), whereas GW-204 and GW-656 were completed in weathered bedrock at 17.3 and 20.7 ft BGS, respectively.

Studies of the Y-12 Plant hydrogeology indicate that an overall south/southeasterly hydraulic gradient is present in the unconsolidated and bedrock intervals at the Building 9204-2 site (HSW 1994). Seasonal variation in groundwater elevations is small, but does appear to produce a localized southerly gradient in the northern portion of the site during wetter weather. In general, groundwater flow at the site is to the east/southeast toward Upper East Fork Poplar Creek.

2.3 GROUNDWATER ANALYTICAL DATA

Analytical results for groundwater sampled at the site during comprehensive monitoring, site ranking, the fourth quarter of 1993 Upper East Fork Poplar Creek Hydrogeologic Regime Groundwater Quality Assessment sampling, and baseline sampling are presented in Table 2-2. Analytical results indicate the presence of TPH-GRO groundwater contamination above the applicable TDEC Closure Action Level of 1.0 ppm TPH at a single monitoring well (GW-656). Monitoring wells GW-204, GW-805, and GW-806 indicate the presence of TPH-GRO contamination above the analytical quantitation limit but well below the applicable TDEC Closure Action Level. Since GW-656 is bounded by the remaining four monitoring wells, the horizontal extent of TPH-GRO contamination in groundwater is well defined (Figure 2-4). The level of TPH-GRO contamination is low, and the extent of groundwater contamination has remained relatively stable at the site throughout the period monitored. This is consistent with previous monitoring results and the calculated hydraulic gradient, velocity, and conductivity from slug testing of wells GW-204 and GW-656 (Energy Systems 1992).

**Table 2-1. Water Level Measurements at the Building 9204-2 Site
for the Periods of March 1995 and September 1994**

Monitoring well number	Date measured	Total well depth (ft-BGS)	Top of casing (ft-MSL)	Top of casing to water level (ft-BTOC)	Potentiometric surface elevation (ft-MSL)
GW-204	3/29/95	20.3	955.47	10.07	945.40
	9/2/94	20.3	955.47	10.69	944.78
GW-656	3/29/95	20.6	954.90	10.41	944.49
	9/2/94	20.6	954.90	10.50	944.40
GW-805	3/29/95	11.6	955.02	8.23	946.79
	9/2/94	11.6	955.02	8.12	946.90
GW-806	3/29/95	11.5	951.95	7.09	944.86
	9/2/94	11.5	951.95	7.34	944.61
GW-807	3/29/95	14.0	955.36	8.87	946.49
	9/2/94	14.0	955.36	8.56	946.80

Notes:

BGS - below ground surface

MSL - mean sea level

BTOC - below top of casing

The analytical results do not indicate the presence of benzene contamination above the applicable TDEC Closure Action Level of 0.07 ppm in any of the wells at the site (Figure 2-5). Trace amounts of benzene above the analytical quantitation limit but below the most stringent TDEC Closure Action Level were detected in monitoring wells GW-204 and GW-656 during the earliest sampling event. However, levels of benzene in groundwater have remained below the analytical quantitation limit through the remainder of the period monitored. In general, it is expected that contaminant levels will fall off slowly as contaminant degradation proceeds because of the slow migration and limited mixing of the groundwater at the site.

Figure 2-2. Building 9204-2 Site Groundwater Potentiometric Contour Map, March 1995.

Figure 2-3. Building 9204-2 Site Groundwater Potentiometric Contour Map, September 1994.

Table 2-2. Analytical results for groundwater samples collected during comprehensive monitoring, site ranking, 1993 groundwater quality assessment sampling, and baseline sampling

Sampling event	Sampling date	TPH-GRO ¹ (ppm)	Benzene (ppm)	Ethylbenzene (ppm)	Toluene (ppm)	Xylenes (ppm)
GW-204						
Comprehensive monitoring	3-29-95	0.150	<0.010 ²	<0.010	<0.010	0.010U ³
Site ranking	9-2-94	<0.100	0.010U	<0.010	<0.010	0.010U
1993 GWQAR Qtr-4	11-16-93	0.010	0.005U	0.002	0.005U	0.002
Baseline sampling	8-30-93	0.180	0.004	0.009	0.001U	0.007
GW-656						
Comprehensive monitoring	3-29-95	*2.300	<0.010	0.010U	0.010U	<0.010
Site ranking	9-2-94	*2.700D ⁴	<0.010	0.010U	0.010U	0.010U
1993 GWQAR Qtr-4	11-17-93	0.775	0.005U	0.500U	0.500U	0.500U
Baseline sampling	8-30-93	0.830	0.003	0.001U	0.001U	0.001U
GW-805						
Comprehensive monitoring	3-29-95	<0.100	0.010U	0.010U	0.010U	0.010U
Site ranking	9-2-94	0.280	0.010U	0.010U	0.010U	0.010U
1993 GWQAR Qtr-4	NS ⁵	NS	NS	NS	NS	NS
Baseline sampling	8-30-93	0.100U	0.001U	0.001U	0.001U	0.001U
GW-806						
Comprehensive monitoring	3-29-95	0.160	0.010U	0.010U	0.010U	0.010U
Site ranking	9-2-94	0.290	0.010U	0.010U	<0.010	0.010U
1993 GWQAR Qtr-4	NS	NS	NS	NS	NS	NS
Baseline sampling	8-30-93	0.160	0.001U	0.001U	0.001U	0.001U
GW-807						
Comprehensive monitoring	3-29-95	<0.100	0.010U	0.010U	0.010U	0.010U
Site ranking	9-2-94	<0.100	0.010U	0.010U	0.010U	0.010U
1993 GWQAR Qtr-4	NS	NS	NS	NS	NS	NS
Baseline sampling	8-30-93	0.100U	0.001U	0.001U	0.001U	0.001U

¹ TPH-GRO - Total Petroleum Hydrocarbons-Gasoline Range Organics.

² < - Contaminant was not detected above quantitation limit during the analysis.

³ U - Contaminant was not detected above quantitation limit during the analysis.

⁴ D - Sample was diluted during analysis.

⁵ NS - Not sampled

* Denotes contamination above the applicable closure action levels for the site.

Figure 2-4. Building 9204-2 Site Horizontal Extent of TPH-GRO Contamination in Groundwater, March 1995.

Figure 2-5. Building 9204-2 Site Horizontal Extent of Benzene Contamination in Groundwater, March 1995.

3.0 VAPOR MONITORING

3.1 MONITORING METHODS AND LOCATIONS

Vapor monitoring as part of the Monitoring Only program was conducted at six access points along subsurface stormwater and sewer drainage lines in the vicinity of the Building 9204-2 Site. However, none of the subsurface utilities present at the site cross the groundwater plume defined by the most recent data. The locations of vapor monitoring locations are illustrated in Figure 3-1.

At each location, the utility line and/or valve pit atmosphere was monitored using direct reading instruments. Organic vapors were measured using an organic vapor meter (#249366). Oxygen and lower explosive limit (LEL) were monitored with a TMX-410 (#249537).

3.2 VAPOR MONITORING RESULTS

The results of site status vapor monitoring conducted April 11, 1995 at the Building 9204-2 Site are presented in Table 3-1. Measured oxygen percentages are within the range of normal air concentrations. LEL readings of 0% indicate that an explosion hazard does not exist within any of the monitored utilities. Organic vapor readings of 0 ppm indicate no detectable concentrations of volatile organic compounds are present in the utility line atmospheres.

Table 3-1. Vapor Monitoring Results for the Building 9204-2 Site, April 11, 1995

Sampling location	O ₂ %	LEL %	Organic vapors (ppm)	Background organic vapors (ppm)
B-1001	20.8	0	0	0
B-1002	20.8	0	0	0
B-1003	20.8	0	0	0
B-1004	20.8	0	0	0
B-1005	20.8	0	0	0
B-1006	20.8	0	0	0

Figure 3-1. Organic Vapor Monitoring Points at the Building 9204-2 Site.

4.0 SOIL MONITORING

4.1 SOIL SAMPLING

Resampling of the tank 0134-U pit was performed on December 20, 1994 to provide TPH-GRO data for the soil immediately beneath the former UST. Sampling was performed at the direction of TDEC to support site ranking since TPH analysis was not required at the time of the tank removal and site investigation. One boring (BH-1) was drilled and sampled near the south end of the tank pit, and a second boring was repeatedly attempted near the north end of the tank pit but met shallow refusal (Figure 4-1).

Soil boring BH-1 was drilled to 5 ft BGS with a backhoe using a hollow-stem auger. Soil cuttings from 0-4 ft BGS were dry, coarse gravel backfill (limestone); from 4-5 ft BGS cuttings were moist, coarse gravel mixed with light orange-tan sandy clay. An organic vapor monitor (MiniRAE® model PGM-75) survey of the cuttings produced a peak reading of 2.8 ppm. The sample was collected by driving a split-spoon sampler from 5-6.2 ft BGS (refusal). The soil sample was moist, light orange-tan sandy clay with a petroleum odor. A peak reading of 230 ppm was noted using the organic vapor monitor. The sample was collected into a precleaned 250 ml glass container and transported to the analytical laboratory.

4.2 ANALYTICAL RESULTS

The soil sample from BH-1 (sample number E943550041) was analyzed for TPH-GRO, benzene, toluene, ethylbenzene, and xylenes at the Y-12 Plant Environmental Laboratory. Analytical laboratory reports for this sample are included in Appendix B.

The analytical results indicate the presence of TPH-GRO (220 ppm) and total benzene, toluene, and xylenes (ΣBTX) of an estimated 8.100 ppm in soil beneath the former UST. These results are well below the applicable TDEC Closure Action Levels for soil (500 ppm TPH and 250 ppm ΣBTX). However, these results do indicate that some residual soil contamination is present beneath the former tank pit. The extent of soil contamination at the site is probably very limited, as demonstrated during previous investigations.

Figure 4-1. Building 9204-2 Tank Pit Resampling Boring Locations.

REFERENCES

- Energy Systems (Martin Marietta Energy Systems, Inc.) 1992. *Corrective Action Plan for Underground Storage Tank 0134-U at the Building 9204-2 Site*, Y/SUB-92-99928C/4.
- Energy Systems 1994. *Closure Report for Underground Storage Tank 0134-U, Building 9204-2, Appendix B*, Y/SUB/94-99069C/Y15/5.
- HSW Environmental Consultants, Inc. *Calendar Year 1993 Groundwater Quality Report for the Upper East Fork Poplar Creek Hydrogeologic Regime, Y-12 Plant, Oak Ridge, Tennessee*, Y/SUB/94-EAQ10C/2/P1.
- TDEC (Tennessee Department of Environment and Conservation) 1994. *Underground Storage Tank Reference Handbook*, Second Edition.

APPENDIX A
LABORATORY ANALYTICAL RESULTS FOR
COMPREHENSIVE MONITORING AND SITE RANKING
GROUNDWATER SAMPLING

DOE Y-12 PLANT CHAIN OF CUSTODY FORM ^{Chg # 52205F28} No 20497
^{RJN # 403117}

SAMPLER: (Signature)			Dept.		Building/Phone									REMARKS
REQUISITION NUMBER	SAMPLING DATE	SAMPLING TIME	COMP.	GRAB	SAMPLE LOCATION	NO. OF CON- TAINERS	WATER	OIL	SOIL	SOLVENT	SLUDGE	OTHER		
	3/29/95	0910		✓	GW-204	4	✓						E950870011	
		1025		✓	GW-656	4	✓						E950870012	
		1115		✓	GW-805	4	✓						E950870014	
		1210		✓	GW-806	4	✓						E950870015	
		1240		✓	GW-807	4	✓						E950870016	
		1250		✓	GW-807A	4	✓						E950870017	
		0710		✓	Equip. Room	4	✓						E950870039	
	✓	0630		✓	Bldg. 9207 Trip Blank	2	✓						E950870041	
	✓	✓		✓	✓	✓	✓						One week Turnaround, USI for Don Bohman	

BETX, TPH/GRO

Relinquished By: (Signature) <i>J. L. Bartzler</i>	Date / Time <i>3/29/95 1:40</i>	Received By: (Signature) <i>Paul H. H.</i>	Date / Time <i>3/29/95 1:40</i>	Dept.	Building <i>9207</i>	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone

REMARKS:

RETURN TO: ENVIRONMENTAL MONITORING, 9704-1, MS - 1, 4-3980.

UNCLASSIFIED

OFFICIAL REPORT

04/05/95 14:27:41

Y-12 ANALYTICAL SERVICES ORGANIZATION

PAGE 1 OF 1

SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTG	STATUS
Bohrman, Donald Edwa	Building 9115 MS 8219	gw-204		E950870011	8601	APPROVED
DATE SAMPLED: 03/29/95 09:10:00	DATE NEEDED: 04/05/95	LOCATION: GW-204			CHARGE #:	S2205F28
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE:	U03117
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: Facility ID # 0-010117; 9204-2

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
PREP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/03/95 12:21:00	APPROVER: E030124

CAS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
GRO	Gasoline Range Organics		150		ug/L
71432	Benzene		<10		ug/L
00414	Ethylbenzene		<10		ug/L
08883	Toluene		<10		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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*** LAST PAGE ***

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04/05/95 14:27:49

Y-12 ANALYTICAL SERVICES ORGANIZATION

PAGE 1 OF 1

SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Bohrman, Donald Edwa	Building 9115 MS 8219	UST GW-656		E950870012	8601	APPROVED
DATE SAMPLED: 03/29/95 10:25:00	DATE NEEDED: 04/05/95	LOCATION: GW-656			CHARGE #:	S2205F28
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE:	U03117
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: Facility ID # 0-010117; 9204-2

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
PREP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/03/95 13:04:00	APPROVER: E030124
COMMENTS: GRO RESULTS ARE FROM A 1:2 DILUTION RUN ON 4/3/95 AT 13:52			

CAS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
GRO	Gasoline Range Organics		2300		ug/L
71432	Benzene		<10		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		<10		ug/L
	GRO Quantitation Limit		200		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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<u>SUBMITTER</u>	<u>ADDRESS</u>	<u>CUSTOMER ID</u>	<u>REQ NO</u>	<u>SAMPLE NO</u>	<u>MTC</u>	<u>STATUS</u>
Sohrman, Donald Edwa	Building 9115 MS 8219	UST GW-805		E950870014	8601	APPROVED
DATE SAMPLED: 03/29/95 11:15:00	DATE NEEDED: 04/05/95	LOCATION: GW-805			CHARGE #: S2205F28	
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE: U03117	
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: Facility ID # 0-010117; 9204-2

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/03/95 14:32:00	APPROVER: E030124

<u>SAS NUMBER</u>	<u>DETERMINATION</u>	<u>DT</u>	<u>RESULT</u>	<u>CONFIDENCE</u>	<u>UNIT</u>
GRO	Gasoline Range Organics		<100		ug/L
1432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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<u>SUBMITTER</u>	<u>ADDRESS</u>	<u>CUSTOMER ID</u>	<u>REQ NO</u>	<u>SAMPLE NO</u>	<u>MTC</u>	<u>STATUS</u>
phrman, Donald Edwa	Building 9115 MS 8219	UST GW-806		E950870015	8601	APPROVED
DATE SAMPLED: 03/29/95 12:10:00	DATE NEEDED: 04/05/95	LOCATION: GW-806			CHARGE #:	S2205F28
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE:	U03117
AMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

OMMENTS: Facility ID # 0-010117

EST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/03/95 15:10:00	APPROVER: E030124

<u>AS NUMBER</u>	<u>DETERMINATION</u>	<u>DT</u>	<u>RESULT</u>	<u>CONFIDENCE</u>	<u>UNIT</u>
RO	Gasoline Range Organics		160		ug/L
1432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Sohrman, Donald Edwa	Building 9115 MS 8219	UST GW-807		E950870016	8601	APPROVED
DATE SAMPLED: 03/29/95 12:40:00	DATE NEEDED: 04/05/95	LOCATION: GW-807			CHARGE #:	S2205F28
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE:	U03117
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: Facility ID # 0-010117; 9204-2

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/03/95 16:00:00	APPROVER: E030124

SAMPLE NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
GRO	Gasoline Range Organics		<100		ug/L
1432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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<u>SUBMITTER</u>	<u>ADDRESS</u>	<u>CUSTOMER ID</u>	<u>REQ NO</u>	<u>SAMPLE NO</u>	<u>MTG</u>	<u>STATUS</u>
Bohrman, Donald Edwa	Building 9115 MS 8219	UST GW-807A		E950870017	8601	APPROVED
DATE SAMPLED: 03/29/95 12:50:00	DATE NEEDED: 04/05/95	LOCATION: GW-807A				CHARGE #: S2205F28
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:				CASE: U03117
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: Facility ID # 0-010117; 9204-2

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/04/95 10:01:00	APPROVER: E030124

<u>AS NUMBER</u>	<u>DETERMINATION</u>	<u>DT</u>	<u>RESULT</u>	<u>CONFIDENCE</u>	<u>UNIT</u>
RO	Gasoline Range Organics		<100		ug/L
1432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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UBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTG	STATUS
ohrman, Donald Edwa	Building 9115 MS 8219	UST EQ. RINSE		E950870039	8601	APPROVED
ATE SAMPLED: 03/29/95 07:10:00	DATE NEEDED: 04/05/95	LOCATION: EQPT. RINSE			CHARGE #:	S2205F28
ATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE:	U03117
AMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

OMMENTS: Facility ID # 0-010117; 9204-2 Equipmt. Rinse

EST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 04/04/95 10:39:00	APPROVER: E030124

AS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
RO	Gasoline Range Organics		<100		ug/L
1432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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<u>SUBMITTER</u>	<u>ADDRESS</u>	<u>CUSTOMER ID</u>	<u>REQ NO</u>	<u>SAMPLE NO</u>	<u>MTC</u>	<u>STATUS</u>
Bohrman, Donald Edwa	Building 9115 MS 8219	UST T.B.		E950870041	8601	APPROVED
DATE SAMPLED: 03/29/95 06:30:00	DATE NEEDED: 04/05/95	LOCATION: TRIP BLANK			CHARGE #: S2211601	
DATE RECEIVED: 03/29/95	DATE COMPLETED: 04/04/95	PROJECT CODE:			CASE: SQT001	
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB	FINAL APPROVAL:

COMMENTS: Facility ID # 0-010117; 9204-2 Trip Blanks

EST: VOA624 Volatile Organics by GC/MS (EPA 624)
 REP MTH: EPA624 PROC MTH: EPA 624 PHASE:

REPLICATE: 1 STATUS: APPROVED
 TIME ANALYZED: 03/31/95 12:23:00 APPROVER: E028409

AS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
4873	Chloromethane		10 U		ug/L
4839	Bromomethane		10 U		ug/L
5014	Vinyl chloride		10 U		ug/L
5003	Chloroethane		10 U		ug/L
5694	Trichlorofluoromethane		10 U		ug/L
5092	Methylene chloride		10 U		ug/L
5354	1,1-Dichloroethene		10 U		ug/L
5343	1,1-Dichloroethane		10 U		ug/L
56605	trans-1,2-Dichloroethene		10 U		ug/L
7663	Chloroform		10 U		ug/L
07062	1,2-Dichloroethane		10 U		ug/L
1556	1,1,1-Trichloroethane		10 U		ug/L
6235	Carbon tetrachloride		10 U		ug/L
5274	Bromodichloromethane		10 U		ug/L
10758	2-Chloroethylvinyl ether		10 U		ug/L
8875	1,2-Dichloropropane		10 U		ug/L
0061015	cis-1,3-Dichloropropene		10 U		ug/L
9016	Trichloroethene		10 U		ug/L
24481	Dibromochloromethane		10 U		ug/L
9005	1,1,2-Trichloroethane		10 U		ug/L
1432	Benzene		10 U		ug/L
0061026	trans-1,3-Dichloropropene		10 U		ug/L
5252	Bromoform		10 U		ug/L
27184	Tetrachloroethene		10 U		ug/L
9345	1,1,2,2,-Tetrachloroethane		10 U		ug/L
08883	Toluene		10 U		ug/L
08907	Chlorobenzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L

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DOE Y-12 PLANT CHAIN OF CUSTODY FORM

Nº 20427

SAMPLER: (Signature)			Dept.		Building/Phone								REMARKS
REQUISITION NUMBER	SAMPLING DATE	SAMPLING TIME	COMP.	GRAB	SAMPLE LOCATION	NO. OF CON- TAINERS	WATER	OIL	SOIL	SOLVENT	SLUDGE	OTHER	
	9/02/94	0935		✓	GW-204	4	✓						E942440074
	9/02/94	1018		✓	GW-656	4	✓						E942440076
	9/02/94	1049		✓	GW-805	4	✓						E942440077
	9/02/94	1121		✓	GW-806	4	✓						E942440078
	9/02/94	1148		✓	GW-807	4	✓						E942440079
	9/02/94	0710		✓	Bldg. 9207 TRIP BLANK	2	✓						E942440080
													Don Bohrman
													UST Wells
													"RUSH"

UCN-15487 (2 10-84)

Signatures Required on Back

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<u>SUBMITTER</u>	<u>ADDRESS</u>	<u>CUSTOMER ID</u>	<u>REQ NO</u>	<u>SAMPLE NO</u>	<u>MTG</u>	<u>STATUS</u>
Bohrman, Donald Edwa	Building 9115 MS 8219			E942440074	8601	APPROVED
DATE SAMPLED: 09/02/94 09:35:00	DATE NEEDED: 10/01/94	LOCATION: GW-204				CHARGE #: S2205F19
DATE RECEIVED: 09/02/94	DATE COMPLETED: 09/26/94	PROJECT CODE:				CASE: U03117
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: FACILITY ID 0-010117

L. T. Emerson

<u>EST: DRO_W</u>	<u>TPH Diesel Range Organics Water (TN UST METHOD)</u>	<u>REPLICATE: 1</u>	<u>STATUS: CANCELLED</u>
REP MTH:	PROC MTH: TN UST METH PHASE:	TIME ANALYZED:	APPROVER:
	THIS TEST WAS CANCELLED		

<u>EST: GRO</u>	<u>TPH Gasoline Range Organics Including BTEX</u>	<u>REPLICATE: 1</u>	<u>STATUS: APPROVED</u>
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 09/08/94 14:46:00	APPROVER: E030124

<u>AS NUMBER</u>	<u>DETERMINATION</u>	<u>DT</u>	<u>RESULT</u>	<u>CONFIDENCE</u>	<u>UNIT</u>
1432	Gasoline Range Organics		<100		ug/L
00414	Benzene		10 U		ug/L
08883	Ethylbenzene		<10		ug/L
330207	Toluene		<10		ug/L
	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Bohrman, Donald Edwa	Building 9115 MS 8219			E942440076	8601	APPROVED
DATE SAMPLED: 09/02/94 10:18:00	DATE NEEDED: 10/01/94	LOCATION: GW-656			CHARGE #: S2205F19	
DATE RECEIVED: 09/02/94	DATE COMPLETED: 09/29/94	PROJECT CODE:			CASE: U03117	
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: FACILITY ID 0-010117

TEST: DRO_W	TPH Diesel Range Organics Water (TN UST METHOD)	REPLICATE: 1	STATUS: CANCELLED
REP MTH:	PROC MTH: TN UST METH PHASE:	TIME ANALYZED:	APPROVER:
THIS TEST WAS CANCELLED			

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 09/08/94 15:21:00	APPROVER: E030124
COMMENTS: GRO RESULTS WITH "D" QUALIFIER ARE FROM DILUTION ANALYZED ON 9/9/94 AT 12:59; 1:2 DILUTION			

AS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
	Gasoline Range Organics		2700 D		ug/L
1432	Benzene		<10		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		200		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Bohrman, Donald Edwa	Building 9115 MS 8219			E942440077	8601	APPROVED
DATE SAMPLED: 09/02/94 10:49:00	DATE NEEDED: 10/01/94	LOCATION: GW-805			CHARGE #: S2205F19	
DATE RECEIVED: 09/02/94	DATE COMPLETED: 09/26/94	PROJECT CODE:			CASE: U03117	
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: FACILITY ID 0-010117

TEST: DRO_W	TPH Diesel Range Organics Water (TN UST METHOD)	REPLICATE: 1	STATUS: CANCELLED
REP MTH:	PROC MTH: TN UST METH PHASE:	TIME ANALYZED:	APPROVER:
	THIS TEST WAS CANCELLED		

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 09/08/94 15:56:00	APPROVER: E030124

CAS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
	Gasoline Range Organics		280		ug/L
71432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Bohrman, Donald Edwa	Building 9115 MS 8219			E942440078	8601	APPROVED
DATE SAMPLED: 09/02/94 11:21:00	DATE NEEDED: 10/01/94	LOCATION: GW-806			CHARGE #: S2205F19	
DATE RECEIVED: 09/02/94	DATE COMPLETED: 09/26/94	PROJECT CODE:			CASE: U03117	
AMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: FACILITY ID 0-010117

EST: DRO_W	TPH Diesel Range Organics Water (TN UST METHOD)	REPLICATE: 1	STATUS: CANCELLED
REP MTH:	PROC MTH: TN UST METH PHASE:	TIME ANALYZED:	APPROVER:
	THIS TEST WAS CANCELLED		

EST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 09/08/94 16:30:00	APPROVER: E030124

AS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
	Gasoline Range Organics		290		ug/L
1432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		<10		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Bohrman, Donald Edwa	Building 9115 MS 8219			E942440079	8601	APPROVED
DATE SAMPLED: 09/02/94 11:48:00	DATE NEEDED: 10/01/94	LOCATION: GW-807			CHARGE #:	S2205F19
DATE RECEIVED: 09/02/94	DATE COMPLETED: 09/26/94	PROJECT CODE:			CASE:	U03117
SAMPLER: 029776	SAMPLE DESCRIPTION: GRAB					

FINAL APPROVAL:

COMMENTS: FACILTIY ID 0-010117

TEST: DRO_W	TPH Diesel Range Organics Water (TN UST METHOD)	REPLICATE: 1	STATUS: CANCELLED
REP MTH:	PROC MTH: TN UST METH PHASE:	TIME ANALYZED:	APPROVER:
	THIS TEST WAS CANCELLED		

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 09/08/94 17:05:00	APPROVER: E030124

CAS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
	Gasoline Range Organics		<100		ug/L
71432	Benzene		10 U		ug/L
00414	Ethylbenzene		10 U		ug/L
08883	Toluene		10 U		ug/L
330207	Xylene		10 U		ug/L
	GRO Quantitation Limit		100		ug/L
	BTEX Quantitation Limit		10		ug/L
	GRO Amount in Blank		NONE		ug/L

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<u>SUBMITTER</u>	<u>ADDRESS</u>	<u>CUSTOMER ID</u>	<u>REQ NO</u>	<u>SAMPLE NO</u>	<u>MTC</u>	<u>STATUS</u>
Bohrman, Donald Edwa	Building 9115 MS 8219			E942440080	8601	APPROVED
DATE SAMPLED: 09/02/94 07:10:00	DATE NEEDED: 10/01/94	LOCATION:			CHARGE #:	S2211601
DATE RECEIVED: 09/02/94	DATE COMPLETED: 09/07/94	PROJECT CODE:			CASE:	SQT001
SAMPLER: 029776	SAMPLE DESCRIPTION: TRIP BLANK	FINAL APPROVAL:				

COMMENTS:

L. T. Emerson

TEST: VOA624	Volatile Organics by GC/MS (EPA 624)	REPLICATE: 1	STATUS: APPROVED
PREP MTH:	PROC MTH: EPA 624	TIME ANALYZED: 09/06/94 16:15:00	APPROVER: E030124

CAS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
74873	Chloromethane		10 U		ug/L
74839	Bromomethane		10 U		ug/L
75014	Vinyl chloride		10 U		ug/L
75003	Chloroethane		10 U		ug/L
75694	Trichlorofluoromethane		10 U		ug/L
75092	Methylene chloride		10 U		ug/L
75354	1,1-Dichloroethene		10 U		ug/L
75343	1,1-Dichloroethane		10 U		ug/L
756605	trans-1,2-Dichloroethene		10 U		ug/L
757663	Chloroform		10 U		ug/L
757062	1,2-Dichloroethane		10 U		ug/L
751556	1,1,1-Trichloroethane		10 U		ug/L
756235	Carbon tetrachloride		10 U		ug/L
75274	Bromodichloromethane		10 U		ug/L
7510758	2-Chloroethylvinyl ether		10 U		ug/L
758875	1,2-Dichloropropane		10 U		ug/L
750061015	cis-1,3-Dichloropropene		10 U		ug/L
759016	Trichloroethene		10 U		ug/L
7524481	Dibromochloromethane		10 U		ug/L
759005	1,1,2-Trichloroethane		10 U		ug/L
751432	Benzene		10 U		ug/L
750061026	trans-1,3-Dichloropropene		10 U		ug/L
75252	Bromoform		10 U		ug/L
7527184	Tetrachloroethene		10 U		ug/L
759345	1,1,2,2,-Tetrachloroethane		10 U		ug/L
7508883	Toluene		10 U		ug/L
7508907	Chlorobenzene		10 U		ug/L
7500414	Ethylbenzene		10 U		ug/L

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APPENDIX B
LABORATORY ANALYTICAL RESULTS FOR
SITE RANKING SOIL SAMPLING

DOE Y-12 PLANT CHAIN OF CUSTODY FORM

No 20100

SAMPLER: (Signature)			Dept.		Building/Phone									REMARKS
REQUISITION NUMBER	SAMPLING DATE	SAMPLING TIME	COMP.	GRAB	SAMPLE LOCATION	NO. OF CON- TAINERS	WATER	OIL	SOIL	SOLVENT	SLUDGE	OTHER		
	12/29/94	1341		X	9204-2 TANK 01344	1			X					E943550041

UCN-15487 (2 10-84)

Signatures Required on Back

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
E. Broadway	12/29/94 1400	B. Carwell	12/29/94 1400	7222	9207	1-4347
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Dept.	Building	Phone

REMARKS:

B-2

RETURN TO: ENVIRONMENTAL MONITORING, 9704-1, MS - 1, 4-3980.

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OFFICIAL REPORT

01/10/95 09:36:06

Y-12 ANALYTICAL SERVICES ORGANIZATION

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SUBMITTER	ADDRESS	CUSTOMER ID	REQ NO	SAMPLE NO	MTC	STATUS
Ingram, Edward Micha	Building 9115 MS 8219			E943550041	8403	APPROVED
DATE SAMPLED: 12/20/94 13:41:00	DATE NEEDED: 01/20/95	LOCATION: 9204-2 TANK 0134-U			CHARGE #:	S2205F19
DATE RECEIVED: 12/21/94	DATE COMPLETED: 12/28/94	PROJECT CODE:			CASE:	3177
SAMPLER: 022559	SAMPLE DESCRIPTION: SOIL GRAB	FINAL APPROVAL:				

COMMENTS: BTEX TPH-GRO, FACILITY ID # 0-010117

TEST: GRO	TPH Gasoline Range Organics Including BTEX	REPLICATE: 1	STATUS: APPROVED
REP MTH:	PROC MTH: SW846 8020 PHASE:	TIME ANALYZED: 12/28/94 12:52:00	APPROVER: E030124

SAS NUMBER	DETERMINATION	DT	RESULT	CONFIDENCE	UNIT
	Gasoline Range Organics		220000		ug/kg
1432	Benzene		100 J		ug/kg
00414	Ethylbenzene		3500		ug/kg
08883	Toluene		400 J		ug/kg
330207	Xylene		7600		ug/kg
	GRO Quantitation Limit		17000		ug/kg
	BTEX Quantitation Limit		1700		ug/kg
	GRO Amount in Blank		NONE		ug/kg

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