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FEB 23 2011

LES-11-00014-NRC

ATTN: Document Control Desk
Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Louisiana Energy Services, LLC
NRC Docket No. 70-3103

Subject: URENCO USA Semi-Annual Radiological Effluent Release Report

Pursuant to 10 CFR 70.59 Effluent monitoring reporting requirements, URENCO USA respectfully submits the Semiannual Effluent Release Report for the monitoring period of July 1, 2010 to December 31, 2010. This report specifically addresses release of licensed, principal radionuclide's in liquid or gaseous form to uncontrolled areas.

Should there be any questions concerning this submittal, please contact Mr. Wyatt Padgett, LES Licensing Manager, at 575.394.5257.

Sincerely,

Jay Laughlin for
David E. Sexton
Chief Nuclear Officer and Vice President of Operations

Enclosure: Semi-Annual Radiological Effluent Release Report for July 1, 2010 to December 31, 2010

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SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JULY 1, 2010 THROUGH DECEMBER 31, 2010
URENCO USA
FACILITY OPERATING LICENSE SNM-2010
LEA COUNTY, NEW MEXICO

by

Haley & Aldrich, Inc.
Tucson, Arizona

for

URENCO USA
Lea County, New Mexico

File No. 37262-011
February 2011

HALEY & ALDRICH

TABLE OF CONTENTS

		Page
LIST OF TABLES		**ii**
LIST OF FIGURES		**ii**
LIST OF ACRONYMS AND ABBREVIATIONS		**iii**
1.	**INTRODUCTION**	**1**
2.	**GASEOUS EFFLUENT RELEASE LOCATIONS**	**2**
2.1	Centrifuge Test and Post Mortem Facilities Exhaust Filtration System	2
2.2	Separations Building Module-1001 Pumped Extract Gaseous Effluent Vent System	3
2.3	Sampling Data Gaps	4
2.4	Sampling Program Deviations	4
3.	**LIQUID EFFLUENT RELEASE LOCATION**	**5**
3.1	Lift Station 1	5
3.2	Sampling Data Gaps	5
3.3	Sampling Program Deviations and Program Adjustments	5
4.	**DOSE TO MEMBERS OF THE PUBLIC**	**6**
REFERENCES		**7**

TABLES
FIGURES
APPENDIX A – Lab Data Sheets

LIST OF TABLES

Table No.	Title
1	Centrifuge Test and Post Mortem Facilities (CTPMF) Exhaust Filtration System Gaseous Effluent - Gross Alpha
2	Centrifuge Test and Post Mortem Facilities (CTPMF) Exhaust Filtration System Gaseous Effluent - Gross Beta
3	Centrifuge Test and Post Mortem Facilities (CTPMF) Exhaust Filtration System Gaseous Effluent, Quarterly Filter Composite Results - Radionuclides
4	Separation Building Module (SBM-1001) Pumped Extract Gaseous Effluent Vent System - Gross Alpha
5	Separation Building Module (SBM-1001) Pumped Extract Gaseous Effluent Vent System - Gross Beta
6	Separation Building Module (SBM-1001) Pumped Extract Gaseous Effluent Vent System, Quarterly Filter Composite Results - Radionuclides
7	Lift Station 1 Wastewater Effluent - Radionuclides

LIST OF FIGURES

Figure No.	Title
1	Site Location Map
2	URENCO USA Site Plan with Effluent Locations

LIST OF ACRONYMS AND ABBREVIATIONS

CAB	Centrifuge Assembly Building
CFR	Code of Federal Regulations
CTF	Centrifuge Testing Facility
CTPMF	Centrifuge Test and Post Mortem Facilities
EFS	Exhaust Filtration System
ETUS	Enrichment Technology United States
GEVS	Gaseous Effluent Vent System
HEPA	High Efficiency Particulate Air
HF	Hydrogen Fluoride
LLD	Lower Level of Detection
MDA	Minimum Detectable Activity
mm	Millimeter
NRC	Nuclear Regulatory Commission
PIPS	Planar Implanted Passivated Semiconductor
SBM	Separations Building Module
SFU	Special Filtration Unit
UF6	Uranium Hexafluoride
uCi/mL	MicroCurie per Milliliter

1. INTRODUCTION

This *Semi-Annual Radioactive Effluent Release Report* was prepared for the reporting period of July 1, 2010 through December 31, 2010 for the URENCO USA facility in Lea County, New Mexico (Figure 1), in accordance with 10 CFR 70.59, "*Effluent Monitoring Reporting Requirements*" and pursuant to NRC Regulatory Guide 4.16, "*Monitoring and Reporting Radioactive Materials in Liquid and Gaseous Effluents from Nuclear Fuel Cycle Facilities, Revision 2*" dated December 2010. A semi-annual Radioactive Effluent Release Report is required under 10 CFR 70.59 to report the "*quantity of each of the principal radionuclides released to unrestricted areas in liquid and gaseous effluents during the previous six months of operation, and such other information as the Commission may require to estimate maximum potential annual radiation doses to the public resulting from effluent releases*".

The URENCO USA facility uses a gas centrifuge process to enrich uranium-235 using natural uranium hexafluoride feed material. Uranium hexafluoride was located within the Centrifuge Assembly Building (CAB) and the Separations Building Module (SBM-1001) (Figure 2) during the reporting period. Potential releases of radioactive effluents would have originated from gaseous (exhaust system) or liquid (wastewater/sewage) effluents from the CAB and SBM-1001.

The gaseous and liquid effluent data indicate there were no releases to the public during the reporting period that exceeded the requirements set forth in 10 CFR 20.1301, 10 CFR 20.1302, and 10 CFR 20.1101(d), as described in NRC Regulatory Guide 4.20 "*Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees Other Than Power Reactors*" dated December 1996.

2. GASEOUS EFFLUENT RELEASE LOCATIONS

2.1 Centrifuge Test and Post Mortem Facilities Exhaust Filtration System

Gaseous effluent from the Centrifuge Test and Post Mortem Facilities (CTPMF) is released through the Exhaust Filtration System (EFS), located in the Centrifuge Assembly Building (CAB) and monitored from the Control Room (Figure 2). The system ensures the CTPMF is maintained at a negative pressure.

The total air flow to be handled by the EFS is adequate to maintain negative pressure in the CTPMF. The EFS consists of a duct network that serves the CTMPF and operates at negative pressure. The ductwork is connected to a filter station that can handle 100% of the effluent. Work applications that require the EFS to be operational can be manually shut down in the event of an EFS shut down.

The minimum required EFS filter configuration is one pre-filter, one potassium carbonate impregnated activated carbon filter, and one high-efficiency particulate air (HEPA) filter. Additional filters may be used to provide adequate airflow. The pre-filter removes dust and debris, the potassium carbonate impregnated activated carbon filter removes hydrogen fluoride (HF), and the HEPA filter removes remaining uranic particles from the air stream. After filtration, the clean gases pass through a fan which maintains the negative pressure upstream of the filter station. The clean gases are then discharged through the monitored (alpha and HF) stack on the CAB.

The ABPM201S (alpha particulate monitor) is located adjacent to the filter train in the CTPMF EFS exhaust stack and receives a stream of air from the downstream side of the filters. The filter assembly is equipped with an isokinetic nozzle and is located within the exhaust stack to ensure turbulent flow. This ensures that particulate matter being collected on the filter is representative of particulate matter being released to the environment. The sample volume is pulled through a 47 mm Millipore© 3.0 micron, FSLW alpha profile filter paper to collect particulate matter. The filters are changed out on a weekly basis and submitted to Eberline Services of Oak Ridge, Tennessee under chain-of-custody for gross alpha, gross beta, and isotopic uranium analysis. Gross alpha and gross beta were analyzed using method LANL MLR-100 Modified; isotopic uranium was analyzed using method EML U-02 Modified.

CTPMF EFS gaseous effluent results for gross alpha, gross beta, and isotopic uranium analyses for the reporting period are presented in Tables 1, 2, and 3, respectively. Analytical laboratory data sheets are provided in Appendix A.

Except for two samples, the CTPMF EFS gaseous effluent gross alpha and gross beta results (Tables 1 and 2) were below the minimum detectable activity (MDA), as well as the license basis lower level of detection (LLD) of 1.0E-14 microCuries per milliliter (uCi/mL) (Environmental Report, Rev. 19). The August 18, 2010 sample (A5 10-125) had a gross alpha result of 1.87E-15 uCi/mL (MDA of 7.56E-16 uCi/mL) and a gross beta result of 1.11E-14 uCi/mL (MDA of 1.37E-15 uCi/mL). The October 6, 2010 sample (AS10-169) had a gross alpha result of 9.56E-15 uCi/mL (MDA of 7.79E-16 uCi/mL) and a gross beta result of 3.87E-14 uCi/mL (MDA of 1.28E-15 uCi/mL). The gross alpha result was less than the LLD of 1.0E-14 uCi/mL for both the August 18, 2010 and October 6, 2010 samples.

Isotopic uranium results for the CTPMF EFS gaseous effluent samples collected during the third quarter of 2010 were below the minimum detectable activities (MDA). CTPMF EFS gaseous effluent isotopic uranium results for the fourth quarter of 2010 ranged from 0.001% to 0.002% of the values in

10 CFR 20, Appendix B, Table 2. Appendix B to 10 CFR 20 is "*Annual Limits on Intake (ALIs) and Derived Air Concentrations (DACs) of Radionuclides for Occupational Exposure; Effluent Concentrations; Concentrations for Release to Sewerage*". Per Table 2, the effluent concentrations for air, Class D, are U234=3E-12 uCi/mL; U235=3E-12 uCi/mL; U238=3E-12 uCi/mL.

All detected radionuclide activity values in the CTPMF EFS gaseous effluent samples were below the license basis lower level of detection (LLD) of 1.0E-14 uCi/mL (Environmental Report, Rev. 19).

2.2 Separations Building Module-1001 Pumped Extract Gaseous Effluent Vent System

The pumped extract Gaseous Effluent Vent System (GEVS) is designed to route gaseous streams from the Separations Building Module-1001 (SBM-1001) through filters for treatment before discharge to the atmosphere. Pre-filters and high efficiency particulate air (HEPA) filters remove particulates and impregnated activated carbon filters are used for the removal of HF.

Radioactivity levels within the GEVS stack are continuously monitored from the Control Room. The pumped extract GEVS is a Safe-By-Design system located in the UF6 Handling Area of SBM-1001 that provides exhaust of potentially hazardous contaminants for the SBMs from all permanently connected vacuum pump and trap sets, as well as temporary connections used by maintenance and sampling rigs.

There are two redundant continuous air monitoring devices in the GEVS (1MA1 and 1MA2). Similar to the CTPMF vent system, the alpha particulate monitors are located adjacent to the filter train in the pumped extract GEVS exhaust stack and receive a stream of air from the downstream side of the filters. The filter assemblies are equipped with isokinetic nozzles and are located within the exhaust stack to ensure turbulent flow. This ensures that particulate matter being collected on the filter is representative of particulate matter being released to the environment. The sample volume is pulled through a 47 mm Millipore© 3.0 micron, FSLW alpha profile filter paper to collect particulate matter. The filters are changed out on a weekly basis and submitted to Eberline Services of Oak Ridge, Tennessee under chain-of-custody for gross alpha, gross beta, and isotopic uranium analysis. Gross alpha and gross beta were analyzed using method LANL MLR-100 Modified; isotopic uranium was analyzed using method EML U-02 Modified.

SBM-1001 GEVS gaseous effluent results for gross alpha, gross beta, and isotopic uranium analyses for the reporting period are presented in Tables 4, 5, and 6, respectively. Analytical laboratory data sheets are provided in Appendix A.

Except for one sample, the SBM-1001 GEVS gaseous effluent gross alpha and gross beta results for both 1MA1 and 1MA2 were below the MDA, as well as the license basis LLD of 1.0E-14 uCi/mL (Environmental Report, Rev. 19). The November 24, 2010 sample from 1MA1 had a gross alpha result of 3.10E-16 uCi/mL, which was greater than the gross alpha MDA of 1.33E-16 uCi/mL. However, this result was less than the LLD of 1.0E-14 uCi/mL.

Isotopic uranium results for the third and fourth quarters of 2010 were below the MDA for both 1MA1 and 1MA2. All detected radionuclide activity values were also below the license basis LLD of 1.0E-14 uCi/mL (Environmental Report, Rev. 19).

2.3 Sampling Data Gaps

There were no sampling data gaps for the reporting period for either the pumped extract GEVS in the SBM-1001 or the EFS in the CTPMF. The vent systems were not active during planned power outages and down times, therefore no effluent was released during those instances. A summary of sampling program deviations and program adjustments is provided in Section 2.4.

2.4 Sampling Program Deviations

The following were unplanned deviations to the sampling program during the reporting period.

1300-562-1MA1 Alpha Monitor Exception Log	
Date Range	**Reason for 7 Day Deviation**
8/12/10 @ 21:18 to 8/13/10 @ 11:25	Alpha monitor turned off on a PIPs motor fault following filter advance. No work going on in CTF but SFU was still running. HF monitor in service and air sampling going on in the CTF. No one from ETUS could be contacted to escort Chemistry in to investigate. Maintenance and Chemistry changed the CAB2 filter cartridge out and returned unit to operable status.
10/01/10 @ 00:00 to 10/02/10 @ 05:00	Alpha monitor turned off while release from CTF still on-going. CTF air sample filter 10-169 from 09/30/10 to 10/06/10 will be analyzed for potential release.
10/02/10 @ 05:00 to 10/07/10 @ 15:55	Ventilation system and alpha and HF monitors secure for maintenance activities in CTF. Filter installed on 09/29/10 @10:11 remained installed until 10/13/10 @10:12 to allow sufficient time and volume for 7 days collection.

3. LIQUID EFFLUENT RELEASE LOCATION

3.1 Lift Station 1

Domestic wastewater (sewage) generated at the CAB and SBM-1001, along with other domestic wastewater generated at the URENCO USA facility, is discharged off site to the Eunice Waste Water Treatment Plant. Domestic wastewater is not expected to contain process water, as the facility design does not allow discharge of process liquid effluent to the domestic wastewater system. Domestic wastewater is sampled quarterly at Lift Station 1, which is a central collection point for all domestic waste generated at the URENCO USA facility prior to off-site discharge (Figure 2). The average estimated wastewater discharge to the Eunice Waste Water Treatment Plant is approximately 13,000 gallons per day (Environmental Report, Rev. 19).

Wastewater samples were collected at Lift Station 1 on July 13, 2010 and October 12, 2010 and submitted to Eberline Services of Oak Ridge, Tennessee under chain-of-custody for isotopic uranium analysis using method EML U-02 Modified.

Domestic wastewater effluent results for isotopic uranium analyses for the reporting period are presented in Table 7. Analytical laboratory data sheets are provided in Appendix A.

Uranium-235 results in wastewater sampled collected from Lift Station 1 during the third and fourth quarters of 2010 were below the MDA. Results of analyses for uranium-234 and uranium-238 ranged from 0.016% to 0.073% of the values in 10 CFR 20, Appendix B, Table 3, "*Releases to Sewers*".

All detected radionuclide activity values in samples collected from Lift Station 1 were below the license basis lower level of detection (LLD) of 3.0E-9 uCi/mL (Environmental Report, Rev. 19).

3.2 Sampling Data Gaps

There were no sampling data gaps at Lift Station 1 during the reporting period.

3.3 Sampling Program Deviations and Program Adjustments

There were no sampling program deviations or program adjustments during the reporting period. Wastewater sample collection and analysis at Lift Station 1 was performed pursuant to the New Mexico Environment Department Discharge Permit DP-1481.

4. DOSE TO MEMBERS OF THE PUBLIC

Isotopic uranium activity in gaseous effluent was either below the MDA or less than 10% of values listed in 10 CFR 20, Appendix B, Table 2, "*Effluent Concentrations - Class D Air*" for U234, U235, and U238. This demonstrates compliance with 10 CFR 20.1301, 10 CFR 20.1302, and 10 CFR 20.1101(d), as described in NRC Regulatory Guide 4.20 "*Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees other than Power Reactors*" dated December 1996.

Domestic wastewater effluent activity was either below the MDA or ranged from 0.016% - 0.073% of the value listed in 10 CFR 20, Appendix B, Table 3, "*Releases to Sewers*". This demonstrates compliance with 10 CFR 20.1301 and 10 CFR 20.1302.

REFERENCES

1. GL Environmental, Inc., 2010. *Semi-Annual Radioactive Effluent Release Report, January 1, 2010 through June 30, 2010, URENCO USA, Facility Operating License SNM-2010.* August 25, 2010.

2. New Mexico Environment Department, 2007. *Discharge Permit DP-1481.* February 28, 2007.

3. New Mexico Environment Department, 2007. *Amendment to Discharge Permit DP-1481.* November 24, 2008.

4. URENCO USA, 2003. *Environmental Report, Rev. 19.* Effective date January 6, 2011.

5. U.S. Nuclear Regulatory Commission, 1996. Regulatory Guide 4.20, *Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees Other Than Power Reactors.* December 1996.

6. U.S. Nuclear Regulatory Commission, 2010. Regulatory Guide 4.16, *Monitoring and Reporting Radioactive Materials in Liquid and Gaseous Effluents from Nuclear Fuel Cycle Facilities, Revision 2.* December 2010.

7. U.S. Code of Federal Regulations. 10 CFR 20.1101. *Radiation Protection Programs.*

8. U.S. Code of Federal Regulations. 10 CFR 20.1301. *Dose Limits for Individual Members of the Public.*

9. U.S. Code of Federal Regulations. 10 CFR 20.1302. *Compliance with Dose Limits for Individual Members of the Public.*

10. U.S. Code of Federal Regulations. 10 CFR 20. Appendix B. *Annual Limits on Intake (ALIs) and Derived Air Concentrations (DACs) of Radionuclides for Occupational Exposure; Effluent Concentrations; Concentrations for Release to Sewerage.* Tables 2 and 3.

11. U.S. Code of Federal Regulations. 10 CFR 40.75. *Effluent Monitoring Reporting Requirements.*

TABLE 1
CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)
EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT - GROSS ALPHA
URENCO USA
Lea County, New Mexico

			Gross Alpha (uCi/mL)					
Sample ID	Sample Date	Sample Period	Gross Alpha Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Alpha MDA (uCi/mL)	Total CTPM Exhaust Filtration System Flow (m^3)	Quantity Released (Ci)
1300-562-1MA1 100707	07/07/10 09:38	06/30/10 - 07/07/10	-5.72E-16	5.10E-16	5.10E-16	1.41E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100714	07/14/10 09:28	07/07/10 - 07/14/10	2.55E-16	3.00E-16	3.00E-16	5.65E-16	3.06E+06	Result Below MDA
1300-562-1MA1 100721	07/21/10 09:40	07/14/10 - 07/21/10	0.00E+00	3.60E-16	3.60E-16	8.99E-16	3.09E+06	Result Below MDA
1300-562-1MA1 100728	07/28/10 10:47	07/21/10 - 07/28/10	-3.30E-16	4.57E-16	4.57E-16	1.25E-15	3.11E+06	Result Below MDA
1300-562-1MA1 100804	08/04/10 09:53	07/28/10 - 08/04/10	-6.00E-17	3.90E-16	3.90E-16	1.02E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100811	08/11/10 09:51	08/04/10 - 08/11/10	-2.89E-16	4.01E-16	4.01E-16	1.10E-15	3.09E+06	Result Below MDA
A5 10-125	08/18/10 08:15	08/12/10 - 08/18/10	1.87E-15	5.98E-16	5.98E-16	7.56E-16	2.71E+06	5.07E-09
1300-562-1MA1 100818	08/18/10 10:36	08/11/10 - 08/18/10	-7.71E-16	5.50E-16	5.50E-16	1.57E-15	2.71E+06	Result Below MDA
1300-562-1MA1 100825	08/25/10 09:52	08/18/10 - 08/25/10	0.00E+00	2.70E-16	2.70E-16	7.01E-16	3.06E+06	Result Below MDA
1300-562-1MA1 100901	09/01/10 09:41	08/25/10 - 09/01/10	-2.62E-16	5.33E-16	5.33E-16	1.35E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100908	09/08/10 09:38	09/01/10 - 09/08/10	2.58E-16	4.17E-16	4.17E-16	8.76E-16	3.06E+06	Result Below MDA
1300-562-1MA1 100915	09/15/10 10:01	09/08/10 - 09/15/10	2.04E-16	3.46E-16	3.46E-16	9.74E-16	3.09E+06	Result Below MDA
1300-562-1MA1 100922	09/22/10 14:43	09/15/10 - 09/22/10	4.90E-17	3.96E-16	3.96E-16	9.38E-16	2.57E+06	Result Below MDA
1300-562-1MA1 100929	09/29/10 09:55	09/22/10 - 09/29/10	-7.46E-16	5.84E-16	5.84E-16	1.63E-15	6.60E+05	Result Below MDA
AS10-169	10/06/10 15:08	09/30/10 - 10/06/10	9.56E-15	1.17E-15	1.57E-15	7.79E-16	3.23E+06	3.09E-08
1300-562-1MA1 101013	10/13/10 10:12	09/29/10 - 10/13/10	2.65E-16	2.73E-16	2.75E-16	4.88E-16	3.60E+06	Result Below MDA
1300-562-1MA1 101020	10/20/10 13:48	10/13/10 - 10/20/10	0.00E+00	2.02E-16	2.02E-16	5.71E-16	3.14E+06	Result Below MDA
1300-562-1MA1 101027	10/27/10 09:37	10/20/10 - 10/27/10	-2.48E-16	2.56E-16	2.57E-16	7.89E-16	2.48E+06	Result Below MDA
1300-562-1MA1 101103	11/03/10 09:43	10/27/10 - 11/03/10	5.44E-17	3.20E-16	3.20E-16	7.84E-16	3.11E+06	Result Below MDA
1300-562-1MA1 101110	11/10/10 09:10	11/03/10 - 11/10/10	-4.19E-16	4.11E-16	4.14E-16	1.19E-15	3.23E+06	Result Below MDA
1300-562-1MA1 101117	11/17/10 10:58	11/10/10 - 11/17/10	9.79E-17	5.76E-16	5.76E-16	1.21E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101124	11/24/10 10:30	11/17/10 - 11/24/10	-3.01E-16	6.52E-16	6.52E-16	1.53E-15	3.11E+06	Result Below MDA
1300-562-1MA1 101201	12/01/10 10:01	11/24/10 - 12/01/10	-4.10E-16	4.92E-16	4.94E-16	1.37E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101208	12/08/10 10:26	12/01/10 - 12/08/10	0.00E+00	5.86E-16	5.86E-16	1.30E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101215	12/15/10 11:19	12/08/10 - 12/15/10	-5.96E-16	6.15E-16	6.19E-16	1.60E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101222	12/22/10 10:25	12/15/10 - 12/22/10	0.00E+00	5.71E-16	5.71E-16	1.27E-15	3.11E+06	Result Below MDA
1300-562-1MA1 101229	12/29/10 09:33	12/22/10 - 12/29/10	2.91E-16	5.71E-16	5.72E-16	1.07E-15	3.11E+06	Result Below MDA

NOTES:
1. uCi/mL = microCuries per milliliter.
2. m^3 = cubic meters.
3. MDA = minimum detectable activity.
4. Gross alpha analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (Environmental Report, Rev 19).

TABLE 2
CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)
EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT - GROSS BETA
URENCO USA
Lea County, New Mexico

			Gross Beta (uCi/mL)					
Sample ID	Sample Date	Sample Period	Gross Beta Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Beta MDA (uCi/mL)	Total CTPM Exhaust Filtration System Flow (m^3)	Quantity Released (Ci)
1300-562-1MA1 100707	07/07/10 09:38	06/30/10 - 07/07/10	-1.54E-15	1.08E-15	1.08E-15	2.48E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100714	07/14/10 09:28	07/07/10 - 07/14/10	3.33E-16	1.01E-15	1.01E-15	2.12E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100721	07/21/10 09:40	07/14/10 - 07/21/10	1.30E-15	1.11E-15	1.11E-15	2.23E-15	3.09E+06	Result Below MDA
1300-562-1MA1 100728	07/28/10 10:47	07/21/10 - 07/28/10	-7.61E-16	1.10E-15	1.10E-15	2.44E-15	3.11E+06	Result Below MDA
1300-562-1MA1 100804	08/04/10 09:53	07/28/10 - 08/04/10	1.47E-15	1.26E-15	1.26E-15	2.52E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100811	08/11/10 09:51	08/04/10 - 08/11/10	8.33E-16	8.74E-16	8.74E-16	1.77E-15	3.09E+06	Result Below MDA
A5 10-125	08/18/10 08:15	08/12/10 - 08/18/10	1.11E-14	1.15E-15	1.15E-15	1.37E-15	2.71E+06	3.01E-08
1300-562-1MA1 100818	08/18/10 10:36	08/11/10 - 08/18/10	-1.77E-15	1.19E-15	1.19E-15	2.72E-15	2.71E+06	Result Below MDA
1300-562-1MA1 100825	08/25/10 09:52	08/18/10 - 08/25/10	-8.86E-17	1.19E-15	1.19E-15	2.54E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100901	09/01/10 09:41	08/25/10 - 09/01/10	-4.57E-16	1.08E-15	1.08E-15	2.35E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100908	09/08/10 09:38	09/01/10 - 09/08/10	-1.32E-15	1.12E-15	1.12E-15	2.53E-15	3.06E+06	Result Below MDA
1300-562-1MA1 100915	09/15/10 10:01	09/08/10 - 09/15/10	-4.42E-16	9.81E-16	9.81E-16	2.16E-15	3.09E+06	Result Below MDA
1300-562-1MA1 100922	09/22/10 14:43	09/15/10 - 09/22/10	1.46E-16	9.74E-16	9.74E-16	2.07E-15	2.57E+06	Result Below MDA
1300-562-1MA1 100929	09/29/10 09:55	09/22/10 - 09/29/10	-2.12E-15	1.26E-15	1.26E-15	2.92E-15	6.60E+05	Result Below MDA
AS10-169	10/06/10 15:08	09/30/10 - 10/06/10	3.87E-14	1.87E-15	5.67E-15	1.28E-15	3.23E+06	1.25E-07
1300-562-1MA1 101013	10/13/10 10:12	09/29/10 - 10/13/10	-5.26E-17	8.95E-16	8.95E-16	1.93E-15	3.60E+06	Result Below MDA
1300-562-1MA1 101020	10/20/10 13:48	10/13/10 - 10/20/10	1.24E-15	9.57E-16	9.72E-16	1.90E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101027	10/27/10 09:37	10/20/10 - 10/27/10	-2.58E-15	9.48E-16	1.01E-15	2.28E-15	2.48E+06	Result Below MDA
1300-562-1MA1 101103	11/03/10 09:43	10/27/10 - 11/03/10	-1.36E-15	1.15E-15	1.16E-15	2.59E-15	3.11E+06	Result Below MDA
1300-562-1MA1 101110	11/10/10 09:10	11/03/10 - 11/10/10	1.52E-16	1.05E-15	1.05E-15	2.23E-15	3.23E+06	Result Below MDA
1300-562-1MA1 101117	11/17/10 10:58	11/10/10 - 11/17/10	-2.91E-16	1.36E-15	1.36E-15	2.49E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101124	11/24/10 10:30	11/17/10 - 11/24/10	6.02E-17	1.53E-15	1.53E-15	2.75E-15	3.11E+06	Result Below MDA
1300-562-1MA1 101201	12/01/10 10:01	11/24/10 - 12/01/10	-1.17E-15	1.49E-15	1.50E-15	2.84E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101208	12/08/10 10:26	12/01/10 - 12/08/10	-2.48E-16	1.71E-15	1.71E-15	3.08E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101215	12/15/10 11:19	12/08/10 - 12/15/10	-1.16E-16	1.41E-15	1.41E-15	2.56E-15	3.14E+06	Result Below MDA
1300-562-1MA1 101222	12/22/10 10:25	12/15/10 - 12/22/10	8.60E-16	1.55E-15	1.55E-15	2.67E-15	3.11E+06	Result Below MDA
1300-562-1MA1 101229	12/29/10 09:33	12/22/10 - 12/29/10	1.20E-15	1.32E-15	1.33E-15	2.21E-15	3.11E+06	Result Below MDA

NOTES:
1. uCi/mL = microCuries per milliliter.
2. m^3 = cubic meters.
3. MDA = minimum detectable activity.
4. Gross beta analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.

TABLE 3
CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)
EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT
QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide / Sample ID	Sample Date	Sample Period	Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	MDA (uCi/mL)	Total CTPM Exhaust Filtration System Flow (m^3)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
Uranium-234 / 1300-562-1MA1 QTR3 10	09/29/10 09:55	06/30/10 - 09/29/10	1.62E-17	2.14E-17	2.15E-17	3.27E-17	3.67E+07	Result below MDA	Result below MDA
Uranium-234 / 1300-562-1MA1 QTR4 10	12/29/10 09:33	09/29/10 - 12/29/10	4.23E-17	3.61E-17	3.63E-17	3.31E-17	3.75E+07	1.58E-09	0.001%
Uranium-235 / 1300-562-1MA1 QTR3 10	09/29/10 09:55	06/30/10 - 09/29/10	1.25E-17	2.16E-17	2.16E-17	4.03E-17	3.67E+07	Result below MDA	Result below MDA
Uranium-235 / 1300-562-1MA1 QTR4 10	12/29/10 09:33	09/29/10 - 12/29/10	5.21E-17	4.46E-17	4.47E-17	4.08E-17	3.75E+07	1.95E-09	0.002%
Uranium-238 / 1300-562-1MA1 QTR3 10	09/29/10 09:55	06/30/10 - 09/29/10	1.61E-17	2.13E-17	2.14E-17	3.25E-17	3.67E+07	Result below MDA	Result below MDA
Uranium-238 / 1300-562-1MA1 QTR4 10	12/29/10 09:33	09/29/10 - 12/29/10	5.05E-17	3.89E-17	3.91E-17	1.91E-17	3.75E+07	1.89E-09	0.002%

NOTES:
1. uCi/mL = microCuries per milliliter.
2. m^3 = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (Environmental Report, Rev 19).

TABLE 4
SEPARATION BUILDING MODULE (SBM-1001)
PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS ALPHA
URENCO USA
Lea County, New Mexico

			Gross Alpha (uCi/mL)					
Sample ID	Sample Date	Sample Period	Gross Alpha Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Alpha MDA (uCi/mL)	Total Vent System Flow (m^3)	Quantity Released (Ci)
1001-562-1MA1								
1001-562-1MA1 100707	07/07/10 13:00	06/30/10 - 07/07/10	4.56E-17	3.22E-16	3.22E-16	7.73E-16	1.07E+05	Result Below MDA
1001-562-1MA1 100714	07/14/10 08:30	07/07/10 - 07/14/10	0.00E+00	4.04E-16	4.04E-16	9.86E-16	1.03E+05	Result Below MDA
1001-562-1MA1 100721	07/21/10 13:17	07/14/10 - 07/21/10	-5.01E-17	3.81E-16	3.81E-16	9.59E-16	1.08E+05	Result Below MDA
1001-562-1MA1 100728	07/28/10 08:30	07/21/10 - 07/28/10	-1.08E-16	3.34E-16	3.34E-16	9.14E-16	1.05E+05	Result Below MDA
1001-562-1MA1 100804	08/04/10 14:57	07/28/10 - 08/04/10	-5.22E-17	2.71E-16	2.71E-16	7.51E-16	1.12E+05	Result Below MDA
1001-562-1MA1 100811	08/11/10 08:08	08/04/10 - 08/11/10	0.00E+00	2.67E-16	2.67E-16	6.94E-16	1.02E+05	Result Below MDA
1001-562-1MA1 100818	08/18/10 07:54	08/11/10 - 08/18/10	0.00E+00	3.66E-16	3.66E-16	8.92E-16	1.04E+05	Result Below MDA
1001-562-1MA1 100825	08/25/10 11:05	08/18/10 - 08/25/10	-6.21E-16	4.97E-16	4.97E-16	1.41E-15	1.04E+05	Result Below MDA
1001-562-1MA1 100901	09/01/10 16:44	08/25/10 - 09/01/10	0.00E+00	3.14E-16	3.14E-16	7.84E-16	1.11E+05	Result Below MDA
1001-562-1MA1 100908	09/08/10 11:17	09/01/10 - 09/08/10	-1.85E-16	3.15E-16	3.15E-16	8.86E-16	1.03E+05	Result Below MDA
1001-562-1MA1 100915	09/15/10 10:10	09/08/10 - 09/15/10	-4.61E-17	3.50E-16	3.50E-16	8.82E-16	1.05E+05	Result Below MDA
1001-562-1MA1 100922	09/22/10 08:49	09/15/10 - 09/22/10	-7.65E-16	4.23E-16	4.23E-16	1.28E-15	1.05E+05	Result Below MDA
1001-562-1MA1 100929	09/29/10 09:23	09/22/10 - 09/29/10	-2.19E-16	2.85E-16	2.85E-16	8.37E-16	1.06E+05	Result Below MDA
1001-562-1MA1 101006	10/06/10 09:59	09/29/10 - 10/06/10	-4.71E-16	3.45E-16	3.49E-16	1.07E-15	1.08E+05	Result Below MDA
1001-562-1MA1 101013	10/13/10 09:35	10/06/10 - 10/13/10	4.53E-17	2.66E-16	2.66E-16	6.52E-16	1.07E+05	Result Below MDA
1001-562-1MA1 101020	10/20/10 10:10	10/13/10 - 10/20/10	2.37E-16	2.79E-16	2.80E-16	5.25E-16	1.04E+05	Result Below MDA
1001-562-1MA1 101027	10/27/10 09:10	10/20/10 - 10/27/10	9.07E-17	2.18E-16	2.18E-16	5.01E-16	1.05E+05	Result Below MDA
1001-562-1MA1 101103	11/03/10 08:57	10/27/10 - 11/03/10	-2.68E-16	2.77E-16	2.79E-16	8.54E-16	1.08E+05	Result Below MDA
1001-562-1MA1 101110	11/10/10 08:15	11/03/10 - 11/10/10	-4.64E-17	2.40E-16	2.40E-16	6.67E-16	1.08E+05	Result Below MDA
1001-562-1MA1 101117	11/17/10 11:25	11/10/10 - 11/17/10	-8.54E-16	7.20E-16	7.26E-16	2.16E-15	1.08E+05	Result Below MDA
1001-562-1MA1 101124	11/24/10 08:42	11/17/10 - 11/24/10	3.10E-16	2.30E-16	2.32E-16	1.33E-16	1.04E+05	3.24E-11
1001-562-1MA1 101201	12/01/10 08:30	11/24/10 - 12/01/10	2.77E-16	3.38E-16	3.40E-16	6.64E-16	1.06E+05	Result Below MDA
1001-562-1MA1 101208	12/08/10 10:52	12/01/10 - 12/08/10	-4.05E-16	3.85E-16	3.87E-16	1.10E-15	1.09E+05	Result Below MDA
1001-562-1MA1 101215	12/15/10 09:24	12/08/10 - 12/15/10	-3.68E-16	2.55E-16	2.58E-16	8.79E-16	1.05E+05	Result Below MDA
1001-562-1MA1 101222	12/22/10 09:34	12/15/10 - 12/22/10	-2.77E-16	2.86E-16	2.88E-16	8.83E-16	1.06E+05	Result Below MDA
1001-562-1MA1 101229	12/29/10 08:52	12/22/10 - 12/29/10	-5.27E-16	4.69E-16	4.73E-16	1.30E-15	1.06E+05	Result Below MDA

TABLE 4
SEPARATION BUILDING MODULE (SBM-1001)
PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS ALPHA
URENCO USA
Lea County, New Mexico

			Gross Alpha (uCi/mL)					
Sample ID	Sample Date	Sample Period	Gross Alpha Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Alpha MDA (uCi/mL)	Total Vent System Flow (m^3)	Quantity Released (Ci)
1001-562-1MA2								
1001-562-1MA2 100707	07/07/10 13:03	6/30/10 - 07/07/10	-8.96E-17	2.15E-16	2.15E-16	6.45E-16	1.13E+05	Result Below MDA
1001-562-1MA2 100714	07/14/10 08:35	07/07/10 - 07/14/10	1.56E-16	2.69E-16	2.69E-16	5.74E-16	1.10E+05	Result Below MDA
1001-562-1MA2 100721	07/21/10 13:29	07/14/10 - 07/21/10	1.18E-16	3.67E-16	3.67E-16	8.52E-16	1.15E+05	Result Below MDA
1001-562-1MA2 100728	07/28/10 08:39	07/21/10 - 07/28/10	-5.10E-17	2.65E-16	2.65E-16	7.34E-16	1.10E+05	Result Below MDA
1001-562-1MA2 100804	08/04/10 14:54	07/28/10 - 08/04/10	-5.36E-17	4.07E-16	4.07E-16	1.02E-15	1.17E+05	Result Below MDA
1001-562-1MA2 100811	08/11/10 08:04	08/04/10 - 08/11/10	0.00E+00	3.28E-16	3.28E-16	8.19E-16	1.08E+05	Result Below MDA
1001-562-1MA2 100818	08/18/10 12:44	08/11/10 - 08/18/10	2.04E-16	4.46E-16	4.46E-16	9.73E-16	1.12E+05	Result Below MDA
1001-562-1MA2 100825	08/25/10 11:00	08/18/10 - 08/25/10	1.62E-16	3.50E-16	3.50E-16	7.76E-16	1.08E+05	Result Below MDA
1001-562-1MA2 100901	09/01/10 16:40	08/25/10 - 09/01/10	-1.10E-16	4.57E-16	4.57E-16	1.15E-15	1.08E+05	Result Below MDA
1001-562-1MA2 100908	09/08/10 11:13	09/01/10 - 09/08/10	-5.31E-17	2.76E-16	2.76E-16	7.65E-16	1.08E+05	Result Below MDA
1001-562-1MA2 100915	09/15/10 10:06	09/08/10 - 09/15/10	5.08E-17	4.10E-16	4.10E-16	9.70E-16	1.10E+05	Result Below MDA
1001-562-1MA2 100922	09/22/10 12:56	09/15/10 - 09/22/10	-5.19E-17	3.37E-16	3.37E-16	8.80E-16	1.14E+05	Result Below MDA
1001-562-1MA2 100929	09/29/10 09:20	09/22/10 - 09/29/10	0.00E+00	4.31E-16	4.31E-16	1.05E-15	1.08E+05	Result Below MDA
1001-562-1MA2 101006	10/06/10 10:37	09/29/10 - 10/06/10	-5.35E-17	2.77E-16	2.77E-16	7.70E-16	1.14E+05	Result Below MDA
1001-562-1MA2 101013	10/13/10 14:15	10/06/10 - 10/13/10	-2.20E-16	3.76E-16	3.77E-16	1.00E-15	1.15E+05	Result Below MDA
1001-562-1MA2 101020	10/20/10 10:00	10/13/10 - 10/20/10	-2.75E-16	3.81E-16	3.82E-16	1.04E-15	1.10E+05	Result Below MDA
1001-562-1MA2 101027	10/27/10 09:08	10/20/10 - 10/27/10	-1.35E-16	3.17E-16	3.17E-16	8.57E-16	1.10E+05	Result Below MDA
1001-562-1MA2 101103	11/03/10 08:55	10/27/10 - 11/03/10	4.36E-17	2.57E-16	2.57E-16	6.28E-16	1.12E+05	Result Below MDA
1001-562-1MA2 101110	11/10/10 08:05	11/03/10 - 11/10/10	1.86E-16	3.64E-16	3.65E-16	7.88E-16	1.12E+05	Result Below MDA
1001-562-1MA2 101117	11/17/10 11:07	11/10/10 - 11/17/10	-8.99E-16	9.33E-16	9.38E-16	2.59E-15	1.13E+05	Result Below MDA
1001-562-1MA2 101124	11/24/10 08:44	11/17/10 - 11/24/10	2.76E-16	5.41E-16	5.42E-16	1.02E-15	9.63E+04	Result Below MDA
1001-562-1MA2 101201	12/01/10 08:26	11/24/10 - 12/01/10	-5.95E-16	5.49E-16	5.53E-16	1.52E-15	1.11E+05	Result Below MDA
1001-562-1MA2 101208	12/08/10 10:53	12/01/10 - 12/08/10	-9.03E-17	4.68E-16	4.68E-16	1.11E-15	1.14E+05	Result Below MDA
1001-562-1MA2 101215	12/15/10 09:21	12/08/10 - 12/15/10	9.70E-17	5.70E-16	5.70E-16	1.19E-15	1.10E+05	Result Below MDA
1001-562-1MA2 101222	12/22/10 09:38	12/15/10 - 12/22/10	-3.55E-16	6.50E-16	6.52E-16	1.50E-15	1.11E+05	Result Below MDA
1001-562-1MA2 101229	12/29/10 08:48	12/22/10 - 12/29/10	-1.73E-16	5.37E-16	5.37E-16	1.25E-15	1.12E+05	Result Below MDA

NOTES:
1. uCi/mL = microCuries per milliliter.
2. m^3 = cubic meters.
3. MDA = minimum detectable activity.
4. Gross alpha analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (Environmental Report, Rev 19).

TABLE 5
SEPARATION BUILDING MODULE (SBM-1001)
PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS BETA
URENCO USA
Lea County, New Mexico

			Gross Beta (uCi/mL)					
Sample ID	Sample Date	Sample Period	Gross Beta Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Beta MDA (uCi/mL)	Total Vent System Flow (m^3)	Quantity Released (Ci)
1001-562-1MA1								
1001-562-1MA1 100707	07/07/10 13:00	6/30/10 - 07/07/10	-3.97E-16	8.45E-16	8.45E-16	1.86E-15	1.07E+05	Result Below MDA
1001-562-1MA1 100714	07/14/10 08:30	07/07/10 - 07/14/10	0.00E+00	9.58E-16	9.58E-16	2.06E-15	1.03E+05	Result Below MDA
1001-562-1MA1 100721	07/21/10 13:17	07/14/10 - 07/21/10	-9.18E-16	1.01E-15	1.01E-15	2.27E-15	1.08E+05	Result Below MDA
1001-562-1MA1 100728	07/28/10 08:30	07/21/10 - 07/28/10	-6.22E-16	9.91E-16	9.91E-16	2.21E-15	1.05E+05	Result Below MDA
1001-562-1MA1 100804	08/04/10 14:57	07/28/10 - 08/04/10	0.00E+00	9.57E-16	9.57E-16	2.06E-15	1.12E+05	Result Below MDA
1001-562-1MA1 100811	08/11/10 08:08	08/04/10 - 08/11/10	-1.69E-15	9.76E-16	9.76E-16	2.28E-15	1.02E+05	Result Below MDA
1001-562-1MA1 100818	08/18/10 07:54	08/11/10 - 08/18/10	-5.63E-16	9.23E-16	9.23E-16	2.05E-15	1.04E+05	Result Below MDA
1001-562-1MA1 100825	08/25/10 11:05	08/18/10 - 08/25/10	-1.64E-15	1.18E-15	1.18E-15	2.67E-15	1.04E+05	Result Below MDA
1001-562-1MA1 100901	09/01/10 16:44	08/25/10 - 09/01/10	9.19E-16	9.20E-16	9.20E-16	1.86E-15	1.11E+05	Result Below MDA
1001-562-1MA1 100908	09/08/10 11:17	09/01/10 - 09/08/10	-1.14E-15	9.65E-16	9.65E-16	2.19E-15	1.03E+05	Result Below MDA
1001-562-1MA1 100915	09/15/10 10:10	09/08/10 - 09/15/10	-1.10E-16	9.01E-16	9.01E-16	1.95E-15	1.05E+05	Result Below MDA
1001-562-1MA1 100922	09/22/10 08:49	09/15/10 - 09/22/10	-2.12E-15	9.60E-16	9.60E-16	2.29E-15	1.05E+05	Result Below MDA
1001-562-1MA1 100929	09/29/10 09:23	09/22/10 - 09/29/10	-6.81E-16	9.44E-16	9.44E-16	2.09E-15	1.06E+05	Result Below MDA
1001-562-1MA1 101006	10/06/10 09:59	09/29/10 - 10/06/10	-1.12E-15	8.69E-16	8.83E-16	2.00E-15	1.08E+05	Result Below MDA
1001-562-1MA1 101013	10/13/10 09:35	10/06/10 - 10/13/10	-5.06E-16	8.99E-16	9.02E-16	1.99E-15	1.07E+05	Result Below MDA
1001-562-1MA1 101020	10/20/10 10:10	10/13/10 - 10/20/10	-7.08E-16	9.27E-16	9.32E-16	2.07E-15	1.04E+05	Result Below MDA
1001-562-1MA1 101027	10/27/10 09:10	10/20/10 - 10/27/10	7.70E-16	8.21E-16	8.28E-16	1.67E-15	1.05E+05	Result Below MDA
1001-562-1MA1 101103	11/03/10 08:57	10/27/10 - 11/03/10	-3.52E-16	1.14E-15	1.14E-15	2.46E-15	1.08E+05	Result Below MDA
1001-562-1MA1 101110	11/10/10 08:15	11/03/10 - 11/10/10	-1.86E-15	9.38E-16	9.72E-16	2.21E-15	1.08E+05	Result Below MDA
1001-562-1MA1 101117	11/17/10 11:25	11/10/10 - 11/17/10	-1.27E-15	1.73E-15	1.74E-15	3.88E-15	1.08E+05	Result Below MDA
1001-562-1MA1 101124	11/24/10 08:42	11/17/10 - 11/24/10	3.46E-16	8.56E-16	8.57E-16	1.80E-15	1.04E+05	Result Below MDA
1001-562-1MA1 101201	12/01/10 08:30	11/24/10 - 12/01/10	1.09E-16	8.93E-16	8.93E-16	1.90E-15	1.06E+05	Result Below MDA
1001-562-1MA1 101208	12/08/10 10:52	12/01/10 - 12/08/10	-3.43E-16	8.57E-16	8.58E-16	1.88E-15	1.09E+05	Result Below MDA
1001-562-1MA1 101215	12/15/10 09:24	12/08/10 - 12/15/10	-1.67E-16	1.17E-15	1.17E-15	2.50E-15	1.05E+05	Result Below MDA
1001-562-1MA1 101222	12/22/10 09:34	12/15/10 - 12/22/10	-9.40E-16	9.26E-16	9.35E-16	2.09E-15	1.06E+05	Result Below MDA
1001-562-1MA1 101229	12/29/10 08:52	12/22/10 - 12/29/10	7.63E-16	1.01E-15	1.01E-15	2.07E-15	1.06E+05	Result Below MDA

TABLE 5
SEPARATION BUILDING MODULE (SBM-1001)
PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS BETA
URENCO USA
Lea County, New Mexico

			Gross Beta (uCi/mL)					
Sample ID	**Sample Date**	**Sample Period**	**Gross Beta Results (uCi/mL)**	**Counting Uncertainty**	**Combined Standard Uncertainty (2-sigma)**	**Gross Beta MDA (uCi/mL)**	**Total Vent System Flow (m^3)**	**Quantity Released (Ci)**
1001-562-1MA2								
1001-562-1MA2 100707	07/07/10 13:03	6/30/10 - 07/07/10	-5.53E-16	9.16E-16	9.16E-16	2.02E-15	1.13E+05	Result Below MDA
1001-562-1MA2 100714	07/14/10 08:35	07/07/10 - 07/14/10	-3.09E-16	1.02E-15	1.02E-15	2.24E-15	1.10E+05	Result Below MDA
1001-562-1MA2 100721	07/21/10 13:29	07/14/10 - 07/21/10	-4.16E-16	1.16E-15	1.16E-15	2.54E-15	1.15E+05	Result Below MDA
1001-562-1MA2 100728	07/28/10 08:39	07/21/10 - 07/28/10	-8.04E-16	1.25E-15	1.25E-15	2.74E-15	1.10E+05	Result Below MDA
1001-562-1MA2 100804	08/04/10 14:54	07/28/10 - 08/04/10	-3.74E-16	1.07E-15	1.07E-15	2.33E-15	1.17E+05	Result Below MDA
1001-562-1MA2 100811	08/11/10 08:04	08/04/10 - 08/11/10	7.91E-16	9.52E-16	9.52E-16	1.95E-15	1.08E+05	Result Below MDA
1001-562-1MA2 100818	08/18/10 12:44	08/11/10 - 08/18/10	9.02E-17	9.91E-16	9.91E-16	2.12E-15	1.12E+05	Result Below MDA
1001-562-1MA2 100825	08/25/10 11:00	08/18/10 - 08/25/10	1.24E-16	1.01E-15	1.01E-15	2.16E-15	1.08E+05	Result Below MDA
1001-562-1MA2 100901	09/01/10 16:40	08/25/10 - 09/01/10	-9.11E-16	1.11E-15	1.11E-15	2.47E-15	1.08E+05	Result Below MDA
1001-562-1MA2 100908	09/08/10 11:13	09/01/10 - 09/08/10	-5.94E-16	1.01E-15	1.01E-15	2.24E-15	1.08E+05	Result Below MDA
1001-562-1MA2 100915	09/15/10 10:06	09/08/10 - 09/15/10	-1.15E-15	1.08E-15	1.08E-15	2.43E-15	1.10E+05	Result Below MDA
1001-562-1MA2 100922	09/22/10 12:56	09/15/10 - 09/22/10	-9.28E-16	1.09E-15	1.09E-15	2.43E-15	1.14E+05	Result Below MDA
1001-562-1MA2 100929	09/29/10 09:20	09/22/10 - 09/29/10	-6.46E-17	1.09E-15	1.09E-15	2.34E-15	1.08E+05	Result Below MDA
1001-562-1MA2 101006	10/06/10 10:37	09/29/10 - 10/06/10	-3.96E-16	1.04E-15	1.04E-15	2.27E-15	1.14E+05	Result Below MDA
1001-562-1MA2 101013	10/13/10 14:15	10/06/10 - 10/13/10	-1.36E-15	7.94E-16	8.16E-16	1.87E-15	1.15E+05	Result Below MDA
1001-562-1MA2 101020	10/20/10 10:00	10/13/10 - 10/20/10	8.18E-16	8.45E-16	8.52E-16	1.71E-15	1.10E+05	Result Below MDA
1001-562-1MA2 101027	10/27/10 09:08	10/20/10 - 10/27/10	-7.92E-16	8.42E-16	8.49E-16	1.91E-15	1.10E+05	Result Below MDA
1001-562-1MA2 101103	11/03/10 08:55	10/27/10 - 11/03/10	9.19E-16	8.41E-16	8.50E-16	1.69E-15	1.12E+05	Result Below MDA
1001-562-1MA2 101110	11/10/10 08:05	11/03/10 - 11/10/10	2.74E-16	9.59E-16	9.59E-16	2.02E-15	1.12E+05	Result Below MDA
1001-562-1MA2 101117	11/17/10 11:07	11/10/10 - 11/17/10	-5.22E-16	2.38E-15	2.38E-15	4.38E-15	1.13E+05	Result Below MDA
1001-562-1MA2 101124	11/24/10 08:44	11/17/10 - 11/24/10	-3.84E-16	1.17E-15	1.17E-15	2.19E-15	9.63E+04	Result Below MDA
1001-562-1MA2 101201	12/01/10 08:26	11/24/10 - 12/01/10	0.00E+00	1.36E-15	1.36E-15	2.46E-15	1.11E+05	Result Below MDA
1001-562-1MA2 101208	12/08/10 10:53	12/01/10 - 12/08/10	4.93E-16	1.67E-15	1.67E-15	2.91E-15	1.14E+05	Result Below MDA
1001-562-1MA2 101215	12/15/10 09:21	12/08/10 - 12/15/10	-4.51E-16	1.42E-15	1.42E-15	2.60E-15	1.10E+05	Result Below MDA
1001-562-1MA2 101222	12/22/10 09:38	12/15/10 - 12/22/10	1.01E-15	1.34E-15	1.35E-15	2.28E-15	1.11E+05	Result Below MDA
1001-562-1MA2 101229	12/29/10 08:48	12/22/10 - 12/29/10	2.51E-16	1.19E-15	1.19E-15	2.11E-15	1.12E+05	Result Below MDA

NOTES:
1. uCi/mL = microCuries per milliliter.
2. m^3 = cubic meters.
3. MDA = minimum detectable activity.
4. Gross beta analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.

TABLE 6
SEPARATION BUILDING MODULE (SBM-1001)
PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM
QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide / Sample ID	Sample Date	Sample Period	Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	MDA (uCi/mL)	Total Flow (m^3)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
1001-562-1MA1									
Uranium-234 / 1001-562-1MA1	09/29/10 09:23	06/30/10 - 09/29/10	-5.56E-19	1.12E-18	1.12E-18	1.50E-17	1.38E+06	Result below MDA	Result below MDA
Uranium-234 / 1001-562-1MA1	12/29/10 08:52	09/29/10 - 12/29/10	1.53E-18	6.52E-18	6.52E-18	1.87E-17	1.39E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA1	09/29/10 09:23	06/30/10 - 09/29/10	-6.86E-19	1.38E-18	1.38E-18	1.84E-17	1.38E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA1	12/29/10 08:52	09/29/10 - 12/29/10	7.71E-18	1.10E-17	1.10E-17	1.02E-17	1.39E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA1	09/29/10 09:23	06/30/10 - 09/29/10	1.46E-17	1.48E-17	1.49E-17	1.95E-17	1.38E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA1	12/29/10 08:52	09/29/10 - 12/29/10	1.14E-17	1.26E-17	1.27E-17	1.67E-17	1.39E+06	Result below MDA	Result below MDA
1001-562-1MA2									
Uranium-234 / 1001-562-1MA2	09/29/10 09:20	06/30/10 - 09/29/10	5.19E-18	1.01E-17	1.01E-17	2.08E-17	1.44E+06	Result below MDA	Result below MDA
Uranium-234 / 1001-562-1MA2	12/29/10 08:48	09/29/10 - 12/29/10	4.97E-19	7.10E-18	7.10E-18	2.30E-17	1.44E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA2	09/29/10 09:20	06/30/10 - 09/29/10	3.56E-18	8.73E-18	8.73E-18	1.96E-17	1.44E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA2	12/29/10 08:48	09/29/10 - 12/29/10	1.09E-17	1.44E-17	1.44E-17	2.20E-17	1.44E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA2	09/29/10 09:20	06/30/10 - 09/29/10	6.34E-18	9.92E-18	9.93E-18	1.58E-17	1.44E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA2	12/29/10 08:48	09/29/10 - 12/29/10	-3.93E-18	3.03E-18	3.04E-18	2.55E-17	1.44E+06	Result below MDA	Result below MDA

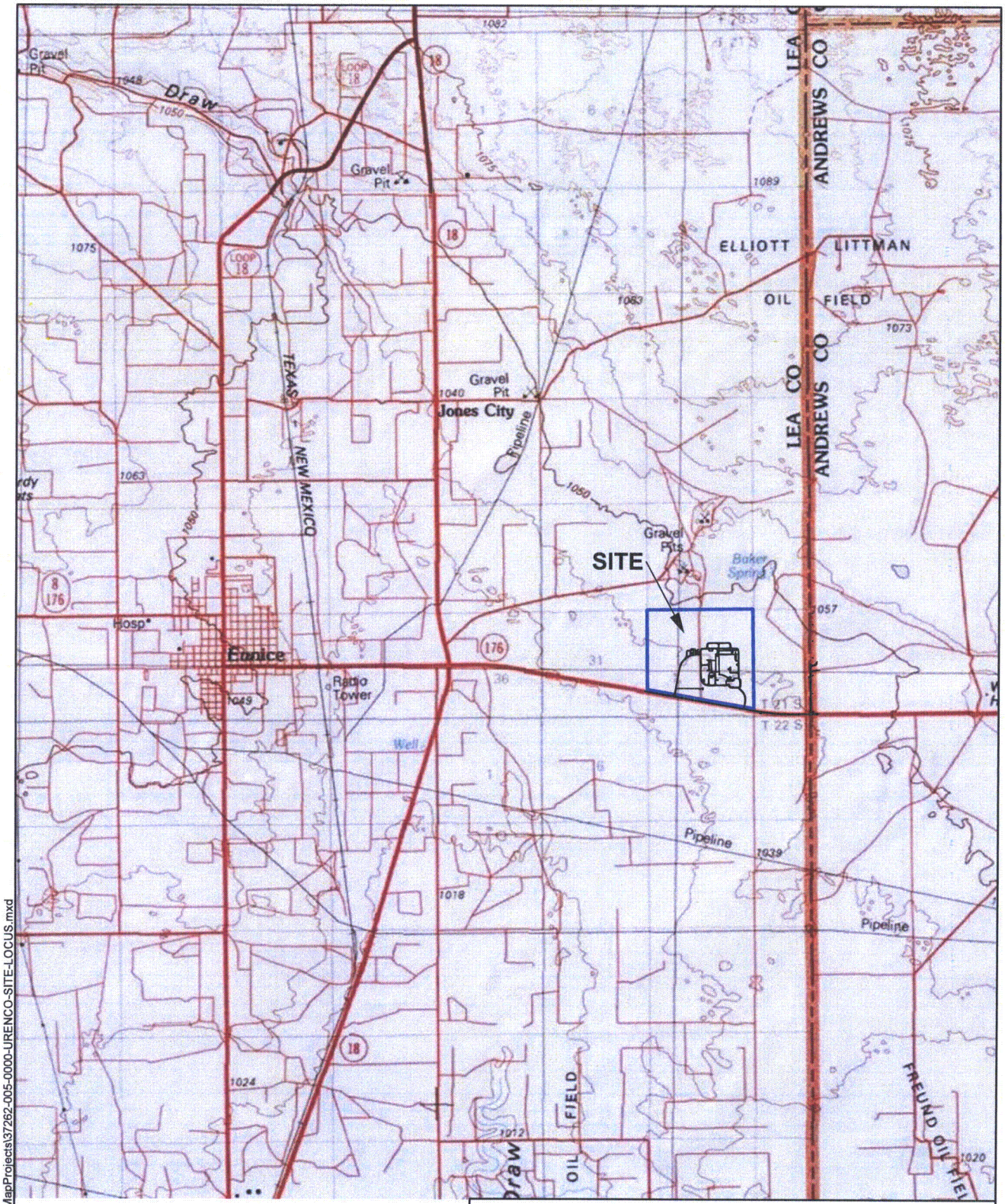
NOTES:

1. uCi/mL = microCuries per milliliter.
2. m^3 = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (Environmental Report, Rev 19).

TABLE 7
LIFT STATION 1 WASTEWATER EFFLUENT - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide	Sample Date	Sample Period	Total Time (days)	Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	MDA (uCi/mL)	Total Flow (gallons/day)*	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
LIFT STATION 1 - Q3 2010										
Uranium - 234	07/13/10 08:40	04/15/10 - 07/13/10	89	1.14E-09	5.92E-10	5.92E-10	3.67E-10	13,000	5.01E-06	0.038%
Uranium - 235	07/13/10 08:40	04/15/10 - 07/13/10	89	7.00E-11	1.71E-10	1.71E-10	3.85E-10	13,000	Result below MDA	Result below MDA
Uranium - 238	07/13/10 08:40	04/15/10 - 07/13/10	89	4.65E-10	3.68E-10	3.68E-10	3.11E-10	13,000	2.04E-06	0.016%
LIFT STATION 1 - Q4 2010										
Uranium - 234	10/12/10 12:30	07/13/10 - 10/12/10	91	2.20E-09	6.55E-10	6.55E-10	9.39E-11	13,000	9.87E-06	0.073%
Uranium - 235	10/12/10 12:30	07/13/10 - 10/12/10	91	1.60E-10	1.78E-10	1.78E-10	2.34E-10	13,000	Result below MDA	Result below MDA
Uranium - 238	10/12/10 12:30	07/13/10 - 10/12/10	91	9.11E-10	3.87E-10	3.87E-10	1.61E-10	13,000	4.09E-06	0.030%

NOTES:
1. uCi/mL = microCuries per milliliter.
2. MDA = minimum detectable activity.
3. Radionuclides analyzed using method EML U-02 Modified by Eberline Services of Oak Ridge, TN.
4. All detected activity values were less than the facility-required lower level detection limit of 3.0E-9 uCi/mL for liquid effluent samples (Environmental Report, Rev 19).
5. * = Table 3.4-4 "Anticipated Normal Plant Water Consumption" from the Environmental Report, Rev. 19, lists "Total Personnel Water Use" as approximately 13,000 gallons per day.



SITE COORDINATES: 32.436181 103.0821

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SCALE IN FEET

HALEY & ALDRICH

URENCO USA
SEMI-ANNUAL RADIOACTIVE
EFFLUENT RELEASE REPORT
EUNICE, NEW MEXICO

SITE LOCATION MAP

SCALE: AS SHOWN
FEBRUARY 2011

FIGURE 1

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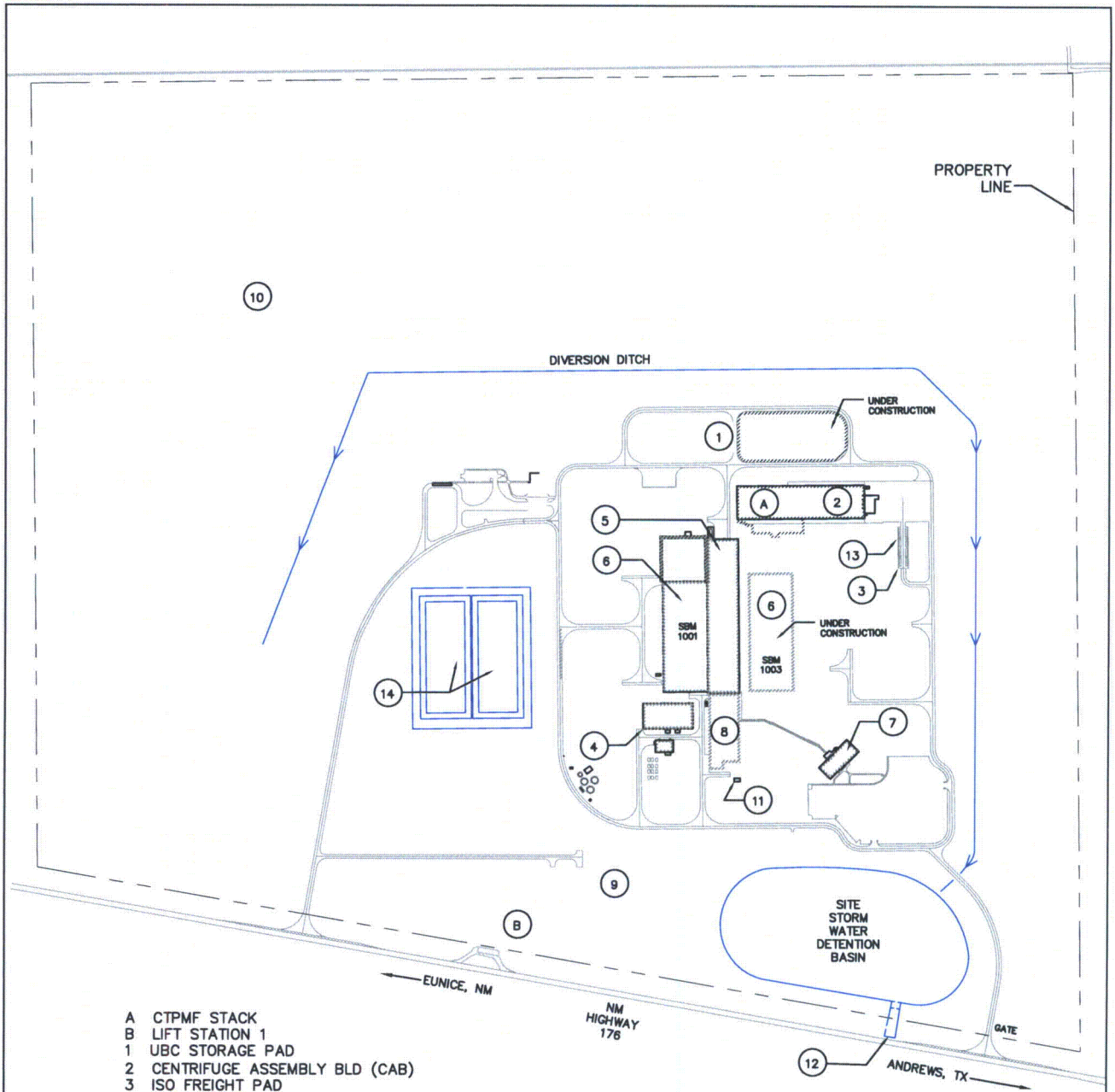
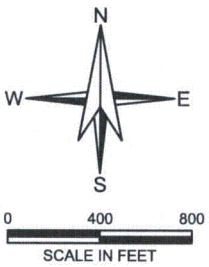


A CTPMF STACK
B LIFT STATION 1
1 UBC STORAGE PAD
2 CENTRIFUGE ASSEMBLY BLD (CAB)
3 ISO FREIGHT PAD
4 CENTRAL UTILITIES BLD
5 CYLINDER RECEIPT & DISPATCH BLD
6 SEPARATIONS BUILDING MODULE (SBM-1001)
7 SECURITY BLD
8 TECHNICAL SERVICES BLD
9 TRANSFORMER AREA
10 METEOROLOGICAL TOWER
11 SECURITY DIESEL BUILDING
12 OUTFALL OF STORM WATER DETENTION BASIN
13 TEMPORARY ALARM AND SECURITY SYSTEM DIESEL
14 UBC STORAGE PAD STORM WATER RETENTION BASIN



HALEY & ALDRICH

URENCO USA
SEMI-ANNUAL RADIOACTIVE
EFFLUENT RELEASE REPORT
JULY - DECEMBER 2010

URENCO USA SITE PLAN WITH EFFLUENT LOCATIONS

SCALE: AS SHOWN
FEBRUARY 2011

FIGURE 2

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APPENDIX A

Lab Data Sheets

Printed: 2/14/2011 12:52 PM

Eberline Analytical

Final Report of Analysis

Report To:	
Debra Edwards	
LES	
275 Hwy 176	
Eunice, NM 88231	

Work Order Details:	
SDG:	10-08122
Purchase Order:	LES-GSA-3080
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-08122-01	LCS	KNOWN	08/20/10 00:00	8/20/2010	8/24/2010		10-08122	Gross Alpha	LANL MLR-100 Modified	3.12E-04	1.34E-05			uCi/ml
10-08122-01	LCS	SPIKE	08/20/10 00:00	8/20/2010	8/24/2010		10-08122	Gross Alpha	LANL MLR-100 Modified	2.94E-04	7.65E-06	7.77E-06	4.11E-07	uCi/ml
10-08122-02	MBL	BLANK	08/20/10 00:00	8/20/2010	8/24/2010		10-08122	Gross Alpha	LANL MLR-100 Modified	-7.17E-16	4.26E-16	4.26E-16	1.32E-15	uCi/ml
10-08122-03	DUP	1001-562-1MA1 100707	07/07/10 13:00	8/20/2010	8/24/2010	2.84E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	8.91E-17	2.14E-16	2.14E-16	4.92E-16	uCi/ml
10-08122-04	DO	1001-562-1MA1 100707	07/07/10 13:00	8/20/2010	8/24/2010	2.84E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	4.56E-17	3.22E-16	3.22E-16	7.73E-16	uCi/ml
10-08122-05	TRG	1001-562-1MA1 100714	07/14/10 08:30	8/20/2010	8/24/2010	2.42E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	0.00E+00	4.04E-16	4.04E-16	9.86E-16	uCi/ml
10-08122-06	TRG	1001-562-1MA1 100721	07/21/10 13:17	8/20/2010	8/24/2010	2.65E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-5.01E-17	3.81E-16	3.81E-16	9.59E-16	uCi/ml
10-08122-07	TRG	1001-562-1MA1 100728	07/28/10 08:30	8/20/2010	8/24/2010	2.47E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-1.08E-16	3.34E-16	3.34E-16	9.14E-16	uCi/ml
10-08122-08	TRG	1001-562-1MA1 100804	08/04/10 14:57	8/20/2010	8/24/2010	2.59E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-5.22E-17	2.71E-16	2.71E-16	7.51E-16	uCi/ml
10-08122-09	TRG	1001-562-1MA2 100707	07/07/10 13:03	8/20/2010	8/24/2010	2.87E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-8.96E-17	2.15E-16	2.15E-16	6.45E-16	uCi/ml
10-08122-10	TRG	1001-562-1MA2 100714	07/14/10 08:35	8/20/2010	8/24/2010	2.50E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	1.56E-16	2.69E-16	2.69E-16	5.74E-16	uCi/ml
10-08122-11	TRG	1001-562-1MA2 100721	07/21/10 13:29	8/20/2010	8/24/2010	2.26E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	1.18E-16	3.67E-16	3.67E-16	8.52E-16	uCi/ml
10-08122-12	TRG	1001-562-1MA2 100728	07/28/10 08:39	8/20/2010	8/24/2010	2.55E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-5.10E-17	2.65E-16	2.65E-16	7.34E-16	uCi/ml
10-08122-13	TRG	1001-562-1MA2 100804	08/04/10 14:54	8/20/2010	8/24/2010	2.56E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-5.36E-17	4.07E-16	4.07E-16	1.02E-15	uCi/ml
10-08122-14	TRG	1300-562-1MA1 100707	07/07/10 09:38	8/20/2010	8/24/2010	2.65E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-5.72E-16	5.10E-16	5.10E-16	1.41E-15	uCi/ml
10-08122-15	TRG	1300-562-1MA1 100714	07/14/10 09:28	8/20/2010	8/24/2010	2.47E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	2.55E-16	3.00E-16	3.00E-16	5.65E-16	uCi/ml
10-08122-16	TRG	1300-562-1MA1 100721	07/21/10 09:40	8/20/2010	8/24/2010	2.44E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	0.00E+00	3.60E-16	3.60E-16	8.99E-16	uCi/ml
10-08122-17	TRG	1300-562-1MA1 100728	07/28/10 10:47	8/20/2010	8/24/2010	2.38E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-3.30E-16	4.57E-16	4.57E-16	1.25E-15	uCi/ml
10-08122-18	TRG	1300-562-1MA1 100804	08/04/10 09:53	8/20/2010	8/24/2010	2.39E+08	10-08122	Gross Alpha	LANL MLR-100 Modified	-6.00E-17	3.90E-16	3.90E-16	1.02E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Printed: 2/14/2011 12:52 PM

Eberline Analytical

Final Report of Analysis

Report To:		Work Order Details:	
Debra Edwards		SDG:	10-08122
LES		Purchase Order:	LES-GSA-3080
275 Hwy 176		Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231		Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-08122-01	LCS	KNOWN	08/20/10 00:00	8/20/2010	8/24/2010		10-08122	Gross Beta	LANL MLR-100 Modified	2.34E-04	7.03E-06			uCi/ml
10-08122-01	LCS	SPIKE	08/20/10 00:00	8/20/2010	8/24/2010		10-08122	Gross Beta	LANL MLR-100 Modified	2.50E-04	5.86E-06	5.89E-06	8.07E-07	uCi/ml
10-08122-02	MBL	BLANK	08/20/10 00:00	8/20/2010	8/24/2010		10-08122	Gross Beta	LANL MLR-100 Modified	6.50E-16	1.17E-15	1.17E-15	2.43E-15	uCi/ml
10-08122-03	DUP	1001-562-1MA1 100707	07/07/10 13:00	8/20/2010	8/24/2010	2.84E+08	10-08122	Gross Beta	LANL MLR-100 Modified	2.71E-17	8.46E-16	8.46E-16	1.82E-15	uCi/ml
10-08122-04	DO	1001-562-1MA1 100707	07/07/10 13:00	8/20/2010	8/24/2010	2.84E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-3.97E-16	8.45E-16	8.45E-16	1.86E-15	uCi/ml
10-08122-05	TRG	1001-562-1MA1 100714	07/14/10 08:30	8/20/2010	8/24/2010	2.42E+08	10-08122	Gross Beta	LANL MLR-100 Modified	0.00E+00	9.58E-16	9.58E-16	2.06E-15	uCi/ml
10-08122-06	TRG	1001-562-1MA1 100721	07/21/10 13:17	8/20/2010	8/24/2010	2.65E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-9.18E-16	1.01E-15	1.01E-15	2.27E-15	uCi/ml
10-08122-07	TRG	1001-562-1MA1 100728	07/28/10 08:30	8/20/2010	8/24/2010	2.47E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-6.22E-16	9.91E-16	9.91E-16	2.21E-15	uCi/ml
10-08122-08	TRG	1001-562-1MA1 100804	08/04/10 14:57	8/20/2010	8/24/2010	2.59E+08	10-08122	Gross Beta	LANL MLR-100 Modified	0.00E+00	9.57E-16	9.57E-16	2.06E-15	uCi/ml
10-08122-09	TRG	1001-562-1MA2 100707	07/07/10 13:03	8/20/2010	8/24/2010	2.87E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-5.53E-16	9.16E-16	9.16E-16	2.02E-15	uCi/ml
10-08122-10	TRG	1001-562-1MA2 100714	07/14/10 08:35	8/20/2010	8/24/2010	2.50E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-3.09E-16	1.02E-15	1.02E-15	2.24E-15	uCi/ml
10-08122-11	TRG	1001-562-1MA2 100721	07/21/10 13:29	8/20/2010	8/24/2010	2.26E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-4.16E-16	1.16E-15	1.16E-15	2.54E-15	uCi/ml
10-08122-12	TRG	1001-562-1MA2 100728	07/28/10 08:39	8/20/2010	8/24/2010	2.55E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-8.04E-16	1.25E-15	1.25E-15	2.74E-15	uCi/ml
10-08122-13	TRG	1001-562-1MA2 100804	08/04/10 14:54	8/20/2010	8/24/2010	2.56E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-3.74E-16	1.07E-15	1.07E-15	2.33E-15	uCi/ml
10-08122-14	TRG	1300-562-1MA1 100707	07/07/10 09:38	8/20/2010	8/24/2010	2.65E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-1.54E-15	1.08E-15	1.08E-15	2.48E-15	uCi/ml
10-08122-15	TRG	1300-562-1MA1 100714	07/14/10 09:28	8/20/2010	8/24/2010	2.47E+08	10-08122	Gross Beta	LANL MLR-100 Modified	3.33E-16	1.01E-15	1.01E-15	2.12E-15	uCi/ml
10-08122-16	TRG	1300-562-1MA1 100721	07/21/10 09:40	8/20/2010	8/24/2010	2.44E+08	10-08122	Gross Beta	LANL MLR-100 Modified	1.30E-15	1.11E-15	1.11E-15	2.23E-15	uCi/ml
10-08122-17	TRG	1300-562-1MA1 100728	07/28/10 10:47	8/20/2010	8/24/2010	2.38E+08	10-08122	Gross Beta	LANL MLR-100 Modified	-7.61E-16	1.10E-15	1.10E-15	2.44E-15	uCi/ml
10-08122-18	TRG	1300-562-1MA1 100804	08/04/10 09:53	8/20/2010	8/24/2010	2.39E+08	10-08122	Gross Beta	LANL MLR-100 Modified	1.47E-15	1.26E-15	1.26E-15	2.52E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical
Final Report of Analysis

Report To:		Work Order Details:	
Debra Edwards		SDG:	10-10047
LES		Purchase Order:	LES-GSA-3080
275 Hwy 176		Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231		Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Sample Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-10047-01	LCS	KNOWN	10/12/10 00:00	10/12/2010	10/20/2010		10-10047	Gross Alpha	LANL MLR-100 Modified	3.15E-04	1.35E-05			uCi/ml
10-10047-01	LCS	SPIKE	10/12/10 00:00	10/12/2010	10/20/2010		10-10047	Gross Alpha	LANL MLR-100 Modified	2.70E-04	3.67E-06	3.88E-06	2.73E-07	uCi/ml
10-10047-02	MBL	BLANK	10/12/10 00:00	10/12/2010	10/20/2010		10-10047	Gross Alpha	LANL MLR-100 Modified	2.82E-16	3.45E-16	3.45E-16	6.77E-16	uCi/ml
10-10047-03	DUP	1001-562-1MA2 100811	08/11/10 08:04	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	9.35E-17	3.89E-16	3.89E-16	8.94E-16	uCi/ml
10-10047-04	DO	1001-562-1MA2 100811	08/11/10 08:04	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	0.00E+00	3.28E-16	3.28E-16	8.19E-16	uCi/ml
10-10047-05	TRG	1001-562-1MA2 100818	08/18/10 12:44	10/12/2010	10/20/2010	2.61E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	2.04E-16	4.46E-16	4.46E-16	9.73E-16	uCi/ml
10-10047-06	TRG	1001-562-1MA2 100825	08/25/10 11:00	10/12/2010	10/20/2010	2.47E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	1.62E-16	3.50E-16	3.50E-16	7.76E-16	uCi/ml
10-10047-07	TRG	1001-562-1MA2 100901	09/01/10 16:40	10/12/2010	10/20/2010	2.46E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-1.10E-16	4.57E-16	4.57E-16	1.15E-15	uCi/ml
10-10047-08	TRG	1001-562-1MA2 100908	09/08/10 11:13	10/12/2010	10/20/2010	2.42E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-5.31E-17	2.76E-16	2.76E-16	7.65E-16	uCi/ml
10-10047-09	TRG	1300-562-1MA1 100811	08/11/10 09:51	10/12/2010	10/20/2010	2.69E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-2.89E-16	4.01E-16	4.01E-16	1.10E-15	uCi/ml
10-10047-10	TRG	1300-562-1MA1 100818	08/18/10 10:36	10/12/2010	10/20/2010	2.43E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-7.71E-16	5.50E-16	5.50E-16	1.57E-15	uCi/ml
10-10047-11	TRG	1300-562-1MA1 100825	08/25/10 09:52	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	0.00E+00	2.70E-16	2.70E-16	7.01E-16	uCi/ml
10-10047-12	TRG	1300-562-1MA1 100901	09/01/10 09:41	10/12/2010	10/20/2010	2.62E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-2.62E-16	5.33E-16	5.33E-16	1.35E-15	uCi/ml
10-10047-13	TRG	1300-562-1MA1 100908	09/08/10 09:38	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	2.58E-16	4.17E-16	4.17E-16	8.76E-16	uCi/ml
10-10047-14	TRG	A5 10-125	08/18/10 08:15	10/12/2010	10/20/2010	3.60E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	1.87E-15	5.98E-16	5.98E-16	7.56E-16	uCi/ml
10-10047-15	TRG	1001-562-1MA1 100811	08/11/10 08:08	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	0.00E+00	2.67E-16	2.67E-16	6.94E-16	uCi/ml
10-10047-16	TRG	1001-562-1MA1 100818	08/18/10 07:54	10/12/2010	10/20/2010	2.80E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	0.00E+00	3.66E-16	3.66E-16	8.92E-16	uCi/ml
10-10047-17	TRG	1001-562-1MA1 100825	08/25/10 11:05	10/12/2010	10/20/2010	2.77E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-6.21E-16	4.97E-16	4.97E-16	1.41E-15	uCi/ml
10-10047-18	TRG	1001-562-1MA1 100901	09/01/10 16:44	10/12/2010	10/20/2010	2.79E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	0.00E+00	3.14E-16	3.14E-16	7.84E-16	uCi/ml
10-10047-19	TRG	1001-562-1MA1 100908	09/08/10 11:17	10/12/2010	10/20/2010	2.75E+08	10-10047	Gross Alpha	LANL MLR-100 Modified	-1.85E-16	3.15E-16	3.15E-16	8.86E-16	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical

Final Report of Analysis

Report To:		Work Order Details:	
Debra Edwards		SDG:	10-10047
LES		Purchase Order:	LES-GSA-3080
275 Hwy 176		Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231		Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Sample Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-10047-01	LCS	KNOWN	10/12/10 00:00	10/12/2010	10/20/2010		10-10047	Gross Beta	LANL MLR-100 Modified	2.35E-04	7.06E-06			uCi/ml
10-10047-01	LCS	SPIKE	10/12/10 00:00	10/12/2010	10/20/2010		10-10047	Gross Beta	LANL MLR-100 Modified	2.40E-04	2.94E-06	2.99E-06	6.04E-07	uCi/ml
10-10047-02	MBL	BLANK	10/12/10 00:00	10/12/2010	10/20/2010		10-10047	Gross Beta	LANL MLR-100 Modified	2.86E-17	8.72E-16	8.72E-16	1.87E-15	uCi/ml
10-10047-03	DUP	1001-562-1MA2 100811	08/11/10 08:04	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-4.78E-16	9.60E-16	9.60E-16	2.11E-15	uCi/ml
10-10047-04	DO	1001-562-1MA2 100811	08/11/10 08:04	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Beta	LANL MLR-100 Modified	7.91E-16	9.52E-16	9.52E-16	1.95E-15	uCi/ml
10-10047-05	TRG	1001-562-1MA2 100818	08/18/10 12:44	10/12/2010	10/20/2010	2.61E+08	10-10047	Gross Beta	LANL MLR-100 Modified	9.02E-17	9.91E-16	9.91E-16	2.12E-15	uCi/ml
10-10047-06	TRG	1001-562-1MA2 100825	08/25/10 11:00	10/12/2010	10/20/2010	2.47E+08	10-10047	Gross Beta	LANL MLR-100 Modified	1.24E-16	1.01E-15	1.01E-15	2.16E-15	uCi/ml
10-10047-07	TRG	1001-562-1MA2 100901	09/01/10 16:40	10/12/2010	10/20/2010	2.46E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-9.11E-16	1.11E-15	1.11E-15	2.47E-15	uCi/ml
10-10047-08	TRG	1001-562-1MA2 100908	09/08/10 11:13	10/12/2010	10/20/2010	2.42E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-5.94E-16	1.01E-15	1.01E-15	2.24E-15	uCi/ml
10-10047-09	TRG	1300-562-1MA1 100811	08/11/10 09:51	10/12/2010	10/20/2010	2.69E+08	10-10047	Gross Beta	LANL MLR-100 Modified	8.33E-16	8.74E-16	8.74E-16	1.77E-15	uCi/ml
10-10047-10	TRG	1300-562-1MA1 100818	08/18/10 10:36	10/12/2010	10/20/2010	2.43E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-1.77E-15	1.19E-15	1.19E-15	2.72E-15	uCi/ml
10-10047-11	TRG	1300-562-1MA1 100825	08/25/10 09:52	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-8.86E-17	1.19E-15	1.19E-15	2.54E-15	uCi/ml
10-10047-12	TRG	1300-562-1MA1 100901	09/01/10 09:41	10/12/2010	10/20/2010	2.62E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-4.57E-16	1.08E-15	1.08E-15	2.35E-15	uCi/ml
10-10047-13	TRG	1300-562-1MA1 100908	09/08/10 09:38	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-1.32E-15	1.12E-15	1.12E-15	2.53E-15	uCi/ml
10-10047-14	TRG	A5 10-125	08/18/10 08:15	10/12/2010	10/20/2010	3.60E+08	10-10047	Gross Beta	LANL MLR-100 Modified	1.11E-14	1.15E-15	1.15E-15	1.37E-15	uCi/ml
10-10047-15	TRG	1001-562-1MA1 100811	08/11/10 08:08	10/12/2010	10/20/2010	2.67E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-1.69E-15	9.76E-16	9.76E-16	2.28E-15	uCi/ml
10-10047-16	TRG	1001-562-1MA1 100818	08/18/10 07:54	10/12/2010	10/20/2010	2.80E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-5.63E-16	9.23E-16	9.23E-16	2.05E-15	uCi/ml
10-10047-17	TRG	1001-562-1MA1 100825	08/25/10 11:05	10/12/2010	10/20/2010	2.77E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-1.64E-15	1.18E-15	1.18E-15	2.67E-15	uCi/ml
10-10047-18	TRG	1001-562-1MA1 100901	09/01/10 16:44	10/12/2010	10/20/2010	2.79E+08	10-10047	Gross Beta	LANL MLR-100 Modified	9.19E-16	9.20E-16	9.20E-16	1.86E-15	uCi/ml
10-10047-19	TRG	1001-562-1MA1 100908	09/08/10 11:17	10/12/2010	10/20/2010	2.75E+08	10-10047	Gross Beta	LANL MLR-100 Modified	-1.14E-15	9.65E-16	9.65E-16	2.19E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical
Final Report of Analysis

Report To:	Work Order Details:	
Debra Edwards	SDG:	10-10049
LES	Purchase Order:	LES-GSA-3080
275 Hwy 176	Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231	Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Sample Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-10049-01	LCS	KNOWN	10/13/10 00:00	10/11/2010	10/20/2010		10-10049	Gross Alpha	LANL MLR-100 Modified	3.16E-04	1.36E-05			uCi/ml
10-10049-01	LCS	SPIKE	10/13/10 00:00	10/11/2010	10/20/2010		10-10049	Gross Alpha	LANL MLR-100 Modified	2.99E-04	3.90E-06	4.15E-06	2.53E-07	uCi/ml
10-10049-02	MBL	BLANK	10/13/10 00:00	10/11/2010	10/20/2010		10-10049	Gross Alpha	LANL MLR-100 Modified	1.01E-16	3.70E-16	3.70E-16	8.57E-16	uCi/ml
10-10049-03	DUP	1300-562-1MA1 100915	09/15/10 10:01	10/11/2010	10/20/2010	2.60E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-5.08E-17	3.85E-16	3.85E-16	9.71E-16	uCi/ml
10-10049-04	DO	1300-562-1MA1 100915	09/15/10 10:01	10/11/2010	10/20/2010	2.60E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-2.04E-16	3.46E-16	3.46E-16	9.74E-16	uCi/ml
10-10049-05	TRG	1300-562-1MA1 100922	09/22/10 14:43	10/11/2010	10/20/2010	2.69E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	4.90E-17	3.96E-16	3.96E-16	9.38E-16	uCi/ml
10-10049-06	TRG	1300-562-1MA1 100929	09/29/10 09:55	10/11/2010	10/20/2010	2.29E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-7.46E-16	5.84E-16	5.84E-16	1.63E-15	uCi/ml
10-10049-07	TRG	1001-562-1MA2 100915	09/15/10 10:06	10/11/2010	10/20/2010	2.57E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	5.08E-17	4.10E-16	4.10E-16	9.70E-16	uCi/ml
10-10049-08	TRG	1001-562-1MA2 100922	09/22/10 12:56	10/11/2010	10/20/2010	2.58E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-5.19E-17	3.37E-16	3.37E-16	8.80E-16	uCi/ml
10-10049-09	TRG	1001-562-1MA2 100929	09/29/10 09:20	10/11/2010	10/20/2010	2.40E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	0.00E+00	4.31E-16	4.31E-16	1.05E-15	uCi/ml
10-10049-10	TRG	1001-562-1MA1 100915	09/15/10 10:10	10/11/2010	10/20/2010	2.86E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-4.61E-17	3.50E-16	3.50E-16	8.82E-16	uCi/ml
10-10049-11	TRG	1001-562-1MA1 100922	09/22/10 08:49	10/11/2010	10/20/2010	2.92E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-7.65E-16	4.23E-16	4.23E-16	1.28E-15	uCi/ml
10-10049-12	TRG	1001-562-1MA1 100929	09/29/10 09:23	10/11/2010	10/20/2010	2.98E+08	10-10049	Gross Alpha	LANL MLR-100 Modified	-2.19E-16	2.85E-16	2.85E-16	8.37E-16	uCi/ml
10-10049-01	LCS	KNOWN	10/13/10 00:00	10/11/2010	10/20/2010		10-10049	Gross Beta	LANL MLR-100 Modified	2.36E-04	7.08E-06			uCi/ml
10-10049-01	LCS	SPIKE	10/13/10 00:00	10/11/2010	10/20/2010		10-10049	Gross Beta	LANL MLR-100 Modified	2.46E-04	2.93E-06	2.98E-06	5.61E-07	uCi/ml
10-10049-02	MBL	BLANK	10/13/10 00:00	10/11/2010	10/20/2010		10-10049	Gross Beta	LANL MLR-100 Modified	-3.92E-16	1.09E-15	1.09E-15	2.37E-15	uCi/ml
10-10049-03	DUP	1300-562-1MA1 100915	09/15/10 10:01	10/11/2010	10/20/2010	2.60E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-2.98E-17	1.00E-15	1.00E-15	2.16E-15	uCi/ml
10-10049-04	DO	1300-562-1MA1 100915	09/15/10 10:01	10/11/2010	10/20/2010	2.60E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-4.42E-16	9.81E-16	9.81E-16	2.16E-15	uCi/ml
10-10049-05	TRG	1300-562-1MA1 100922	09/22/10 14:43	10/11/2010	10/20/2010	2.69E+08	10-10049	Gross Beta	LANL MLR-100 Modified	1.46E-16	9.74E-16	9.74E-16	2.07E-15	uCi/ml
10-10049-06	TRG	1300-562-1MA1 100929	09/29/10 09:55	10/11/2010	10/20/2010	2.29E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-2.12E-15	1.26E-15	1.26E-15	2.92E-15	uCi/ml
10-10049-07	TRG	1001-562-1MA2 100915	09/15/10 10:06	10/11/2010	10/20/2010	2.57E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-1.15E-15	1.08E-15	1.08E-15	2.43E-15	uCi/ml
10-10049-08	TRG	1001-562-1MA2 100922	09/22/10 12:56	10/11/2010	10/20/2010	2.58E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-9.28E-16	1.09E-15	1.09E-15	2.43E-15	uCi/ml
10-10049-09	TRG	1001-562-1MA2 100929	09/29/10 09:20	10/11/2010	10/20/2010	2.40E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-6.46E-17	1.09E-15	1.09E-15	2.34E-15	uCi/ml
10-10049-10	TRG	1001-562-1MA1 100915	09/15/10 10:10	10/11/2010	10/20/2010	2.86E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-1.10E-16	9.01E-16	9.01E-16	1.95E-15	uCi/ml
10-10049-11	TRG	1001-562-1MA1 100922	09/22/10 08:49	10/11/2010	10/20/2010	2.92E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-2.12E-15	9.60E-16	9.60E-16	2.29E-15	uCi/ml
10-10049-12	TRG	1001-562-1MA1 100929	09/29/10 09:23	10/11/2010	10/20/2010	2.98E+08	10-10049	Gross Beta	LANL MLR-100 Modified	-6.81E-16	9.44E-16	9.44E-16	2.09E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical
Final Report of Analysis

Report To:		Work Order Details:	
Debra Edwards		SDG:	10-11111
URENCO USA		Purchase Order:	LES-GSA-3080
275 Hwy 176		Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231		Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-11111-01	LCS	KNOWN	11/29/10 00:00	11/29/2010	12/17/2010		10-11111	Gross Alpha	LANL MLR-100 Modified	3.14E-04	1.35E-05			uCi/ml
10-11111-01	LCS	SPIKE	11/29/10 00:00	11/29/2010	12/17/2010		10-11111	Gross Alpha	LANL MLR-100 Modified	2.84E-04	3.77E-06	3.13E-05	1.44E-07	uCi/ml
10-11111-02	MBL	BLANK	11/29/10 00:00	11/29/2010	12/17/2010		10-11111	Gross Alpha	LANL MLR-100 Modified	9.41E-17	2.92E-16	2.92E-16	6.77E-16	uCi/ml
10-11111-03	DUP	1001-562-1MA1 101006	10/06/10 09:59	11/29/2010	12/17/2010	2.75E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	0.00E+00	3.34E-16	3.34E-16	8.33E-16	uCi/ml
10-11111-04	DO	1001-562-1MA1 101006	10/06/10 09:59	11/29/2010	12/17/2010	2.75E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-4.71E-16	3.45E-16	3.49E-16	1.07E-15	uCi/ml
10-11111-05	TRG	1001-562-1MA1 101013	10/13/10 09:35	11/29/2010	12/17/2010	2.84E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	4.53E-17	2.66E-16	2.66E-16	6.52E-16	uCi/ml
10-11111-06	TRG	1001-562-1MA1 101020	10/20/10 10:10	11/29/2010	12/17/2010	2.73E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	2.37E-16	2.79E-16	2.80E-16	5.25E-16	uCi/ml
10-11111-07	TRG	1001-562-1MA1 101027	10/27/10 09:10	11/29/2010	12/17/2010	2.95E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	9.07E-17	2.18E-16	2.18E-16	5.01E-16	uCi/ml
10-11111-08	TRG	1001-562-1MA1 101103	11/03/10 08:57	11/29/2010	12/17/2010	2.91E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-2.68E-16	2.77E-16	2.79E-16	8.54E-16	uCi/ml
10-11111-09	TRG	1001-562-1MA1 101110	11/10/10 08:15	11/29/2010	12/17/2010	2.96E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-4.64E-17	2.40E-16	2.40E-16	6.67E-16	uCi/ml
10-11111-10	TRG	1001-562-1MA2 101006	10/06/10 10:37	11/29/2010	12/17/2010	2.58E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-5.35E-17	2.77E-16	2.77E-16	7.70E-16	uCi/ml
10-11111-11	TRG	1001-562-1MA2 101013	10/13/10 14:15	11/29/2010	12/17/2010	2.94E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-2.20E-16	3.76E-16	3.77E-16	1.00E-15	uCi/ml
10-11111-12	TRG	1001-562-1MA2 101020	10/20/10 10:00	11/29/2010	12/17/2010	2.81E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-2.75E-16	3.81E-16	3.82E-16	1.04E-15	uCi/ml
10-11111-13	TRG	1001-562-1MA2 101027	10/27/10 09:08	11/29/2010	12/17/2010	2.82E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	-1.35E-16	3.17E-16	3.17E-16	8.57E-16	uCi/ml
10-11111-14	TRG	1001-562-1MA2 101103	11/03/10 08:55	11/29/2010	12/17/2010	2.86E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	4.36E-17	2.57E-16	2.57E-16	6.28E-16	uCi/ml
10-11111-15	TRG	1001-562-1MA2 101110	11/10/10 08:05	11/29/2010	12/17/2010	2.86E+08	10-11111	Gross Alpha	LANL MLR-100 Modified	1.86E-16	3.64E-16	3.65E-16	7.88E-16	uCi/ml
10-11111-01	LCS	KNOWN	11/29/10 00:00	11/29/2010	12/17/2010		10-11111	Gross Beta	LANL MLR-100 Modified	2.34E-04	7.01E-06			uCi/ml
10-11111-01	LCS	SPIKE	11/29/10 00:00	11/29/2010	12/17/2010		10-11111	Gross Beta	LANL MLR-100 Modified	2.52E-04	3.01E-06	3.50E-05	5.65E-07	uCi/ml
10-11111-02	MBL	BLANK	11/29/10 00:00	11/29/2010	12/17/2010		10-11111	Gross Beta	LANL MLR-100 Modified	-5.43E-17	8.74E-16	8.74E-16	1.89E-15	uCi/ml
10-11111-03	DUP	1001-562-1MA1 101006	10/06/10 09:59	11/29/2010	12/17/2010	2.75E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-5.62E-16	9.28E-16	9.31E-16	2.06E-15	uCi/ml
10-11111-04	DO	1001-562-1MA1 101006	10/06/10 09:59	11/29/2010	12/17/2010	2.75E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-1.12E-15	8.69E-16	8.83E-16	2.00E-15	uCi/ml
10-11111-05	TRG	1001-562-1MA1 101013	10/13/10 09:35	11/29/2010	12/17/2010	2.84E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-5.06E-16	8.99E-16	9.02E-16	1.99E-15	uCi/ml
10-11111-06	TRG	1001-562-1MA1 101020	10/20/10 10:10	11/29/2010	12/17/2010	2.73E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-7.08E-16	9.27E-16	9.32E-16	2.07E-15	uCi/ml
10-11111-07	TRG	1001-562-1MA1 101027	10/27/10 09:10	11/29/2010	12/17/2010	2.95E+08	10-11111	Gross Beta	LANL MLR-100 Modified	7.70E-16	8.21E-16	8.28E-16	1.67E-15	uCi/ml
10-11111-08	TRG	1001-562-1MA1 101103	11/03/10 08:57	11/29/2010	12/17/2010	2.91E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-3.52E-16	1.14E-15	1.14E-15	2.46E-15	uCi/ml
10-11111-09	TRG	1001-562-1MA1 101110	11/10/10 08:15	11/29/2010	12/17/2010	2.96E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-1.86E-15	9.38E-16	9.72E-16	2.21E-15	uCi/ml
10-11111-10	TRG	1001-562-1MA2 101006	10/06/10 10:37	11/29/2010	12/17/2010	2.58E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-3.96E-16	1.04E-15	1.04E-15	2.27E-15	uCi/ml
10-11111-11	TRG	1001-562-1MA2 101013	10/13/10 14:15	11/29/2010	12/17/2010	2.94E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-1.36E-15	7.94E-16	8.16E-16	1.87E-15	uCi/ml
10-11111-12	TRG	1001-562-1MA2 101020	10/20/10 10:00	11/29/2010	12/17/2010	2.81E+08	10-11111	Gross Beta	LANL MLR-100 Modified	8.18E-16	8.45E-16	8.52E-16	1.71E-15	uCi/ml
10-11111-13	TRG	1001-562-1MA2 101027	10/27/10 09:08	11/29/2010	12/17/2010	2.82E+08	10-11111	Gross Beta	LANL MLR-100 Modified	-7.92E-16	8.42E-16	8.49E-16	1.91E-15	uCi/ml
10-11111-14	TRG	1001-562-1MA2 101103	11/03/10 08:55	11/29/2010	12/17/2010	2.86E+08	10-11111	Gross Beta	LANL MLR-100 Modified	9.19E-16	8.41E-16	8.50E-16	1.69E-15	uCi/ml
10-11111-15	TRG	1001-562-1MA2 101110	11/10/10 08:05	11/29/2010	12/17/2010	2.86E+08	10-11111	Gross Beta	LANL MLR-100 Modified	2.74E-16	9.59E-16	9.59E-16	2.02E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical
Final Report of Analysis

Report To:		Work Order Details:	
Debra Edwards		SDG:	10-11112
URENCO USA		Purchase Order:	LES-GSA-3080
275 Hwy 176		Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231		Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-11112-01	LCS	KNOWN	11/29/10 00:00	11/29/2010	12/17/2010		10-11112	Gross Alpha	LANL MLR-100 Modified	3.13E-04	1.35E-05			uCi/ml
10-11112-01	LCS	SPIKE	11/29/10 00:00	11/29/2010	12/17/2010		10-11112	Gross Alpha	LANL MLR-100 Modified	3.01E-04	3.86E-06	3.31E-05	2.71E-07	uCi/ml
10-11112-02	MBL	BLANK	11/29/10 00:00	11/29/2010	12/17/2010		10-11112	Gross Alpha	LANL MLR-100 Modified	1.56E-16	1.32E-16	1.34E-16	2.16E-16	uCi/ml
10-11112-03	DUP	AP2	11/15/10 11:55	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	3.13E-15	3.96E-16	5.23E-16	2.35E-16	uCi/ml
10-11112-04	DO	AP2	11/15/10 11:55	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	3.32E-15	4.00E-16	5.40E-16	1.37E-16	uCi/ml
10-11112-05	TRG	AP3	11/15/10 12:00	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	2.78E-15	3.66E-16	4.75E-16	1.74E-16	uCi/ml
10-11112-06	TRG	AP4	11/15/10 11:45	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	1.70E-15	3.03E-16	3.56E-16	2.19E-16	uCi/ml
10-11112-07	TRG	AP5	11/15/10 11:35	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	4.05E-15	4.54E-16	6.34E-16	1.86E-16	uCi/ml
10-11112-08	TRG	AP6	11/15/10 11:20	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	3.67E-15	4.39E-16	5.95E-16	2.22E-16	uCi/ml
10-11112-09	TRG	AP7	11/16/10 11:00	11/29/2010	12/17/2010	1.11E+09	10-11112	Gross Alpha	LANL MLR-100 Modified	3.20E-15	3.83E-16	5.18E-16	1.67E-16	uCi/ml
10-11112-10	TRG	1300-562-1MA1 101013	10/13/10 10:12	11/29/2010	12/17/2010	2.94E+08	10-11112	Gross Alpha	LANL MLR-100 Modified	2.65E-16	2.73E-16	2.75E-16	4.88E-16	uCi/ml
10-11112-11	TRG	1300-562-1MA1 101020	10/20/10 13:48	11/29/2010	12/17/2010	2.59E+08	10-11112	Gross Alpha	LANL MLR-100 Modified	0.00E+00	2.02E-16	2.02E-16	5.71E-16	uCi/ml
10-11112-12	TRG	1300-562-1MA1 101027	10/27/10 09:37	11/29/2010	12/17/2010	3.15E+08	10-11112	Gross Alpha	LANL MLR-100 Modified	-2.48E-16	2.56E-16	2.57E-16	7.89E-16	uCi/ml
10-11112-13	TRG	1300-562-1MA1 101103	11/03/10 09:43	11/29/2010	12/17/2010	2.52E+08	10-11112	Gross Alpha	LANL MLR-100 Modified	5.44E-17	3.20E-16	3.20E-16	7.84E-16	uCi/ml
10-11112-14	TRG	1300-562-1MA1 101110	11/10/10 09:10	11/29/2010	12/17/2010	2.47E+08	10-11112	Gross Alpha	LANL MLR-100 Modified	-4.19E-16	4.11E-16	4.14E-16	1.19E-15	uCi/ml
10-11112-15	TRG	AS10-169	10/06/10 15:08	11/29/2010	12/17/2010	3.76E+08	10-11112	Gross Alpha	LANL MLR-100 Modified	9.56E-15	1.17E-15	1.57E-15	7.79E-16	uCi/ml
10-11112-01	LCS	KNOWN	11/29/10 00:00	11/29/2010	12/17/2010		10-11112	Gross Beta	LANL MLR-100 Modified	2.33E-04	6.99E-06			uCi/ml
10-11112-01	LCS	SPIKE	11/29/10 00:00	11/29/2010	12/17/2010		10-11112	Gross Beta	LANL MLR-100 Modified	2.33E-04	2.85E-06	3.23E-05	6.09E-07	uCi/ml
10-11112-02	MBL	BLANK	11/29/10 00:00	11/29/2010	12/17/2010		10-11112	Gross Beta	LANL MLR-100 Modified	1.52E-15	4.74E-16	5.18E-16	8.47E-16	uCi/ml
10-11112-03	DUP	AP2	11/15/10 11:55	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Beta	LANL MLR-100 Modified	3.00E-14	9.67E-16	4.25E-15	5.23E-16	uCi/ml
10-11112-04	DO	AP2	11/15/10 11:55	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Beta	LANL MLR-100 Modified	2.86E-14	9.51E-16	4.07E-15	5.66E-16	uCi/ml
10-11112-05	TRG	AP3	11/15/10 12:00	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Beta	LANL MLR-100 Modified	2.72E-14	9.06E-16	3.87E-15	4.69E-16	uCi/ml
10-11112-06	TRG	AP4	11/15/10 11:45	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Beta	LANL MLR-100 Modified	2.46E-14	8.93E-16	3.52E-15	5.61E-16	uCi/ml
10-11112-07	TRG	AP5	11/15/10 11:35	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Beta	LANL MLR-100 Modified	3.03E-14	9.72E-16	4.30E-15	5.18E-16	uCi/ml
10-11112-08	TRG	AP6	11/15/10 11:20	11/29/2010	12/17/2010	1.03E+09	10-11112	Gross Beta	LANL MLR-100 Modified	2.85E-14	9.50E-16	4.05E-15	5.49E-16	uCi/ml
10-11112-09	TRG	AP7	11/16/10 11:00	11/29/2010	12/17/2010	1.11E+09	10-11112	Gross Beta	LANL MLR-100 Modified	2.48E-14	8.47E-16	3.53E-15	5.08E-16	uCi/ml
10-11112-10	TRG	1300-562-1MA1 101013	10/13/10 10:12	11/29/2010	12/17/2010	2.94E+08	10-11112	Gross Beta	LANL MLR-100 Modified	-5.26E-17	8.95E-16	8.95E-16	1.93E-15	uCi/ml
10-11112-11	TRG	1300-562-1MA1 101020	10/20/10 13:48	11/29/2010	12/17/2010	2.59E+08	10-11112	Gross Beta	LANL MLR-100 Modified	1.24E-15	9.57E-16	9.72E-16	1.90E-15	uCi/ml
10-11112-12	TRG	1300-562-1MA1 101027	10/27/10 09:37	11/29/2010	12/17/2010	3.15E+08	10-11112	Gross Beta	LANL MLR-100 Modified	-2.58E-15	9.48E-16	1.01E-15	2.28E-15	uCi/ml
10-11112-13	TRG	1300-562-1MA1 101103	11/03/10 09:43	11/29/2010	12/17/2010	2.52E+08	10-11112	Gross Beta	LANL MLR-100 Modified	-1.36E-15	1.15E-15	1.16E-15	2.59E-15	uCi/ml
10-11112-14	TRG	1300-562-1MA1 101110	11/10/10 09:10	11/29/2010	12/17/2010	2.47E+08	10-11112	Gross Beta	LANL MLR-100 Modified	1.52E-16	1.05E-15	1.05E-15	2.23E-15	uCi/ml
10-11112-15	TRG	AS10-169	10/06/10 15:08	11/29/2010	12/17/2010	3.76E+08	10-11112	Gross Beta	LANL MLR-100 Modified	3.87E-14	1.87E-15	5.67E-15	1.28E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical

Final Report of Analysis

Report To:	
Debra Edwards	
Urenco USA	
275 Hwy 176	
Eunice, NM 88231	

Work Order Details:	
SDG:	11-01010
Purchase Order:	LES-GSA-3080
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
11-01010-01	LCS	KNOWN	01/04/11 00:00	1/4/2011	1/5/2011		11-01010	Gross Alpha	LANL MLR-100 Modified	3.15E-04	1.36E-05			uCi/ml
11-01010-01	LCS	SPIKE	01/04/11 00:00	1/4/2011	1/5/2011		11-01010	Gross Alpha	LANL MLR-100 Modified	3.20E-04	5.73E-06	3.54E-05	4.30E-07	uCi/ml
11-01010-02	MBL	BLANK	01/04/11 00:00	1/4/2011	1/5/2011		11-01010	Gross Alpha	LANL MLR-100 Modified	-2.94E-16	6.37E-16	6.37E-16	1.50E-15	uCi/ml
11-01010-03	DUP	1001-562-1MA2 101117	11/17/10 11:07	1/4/2011	1/5/2011	2.88E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	3.57E-16	8.57E-16	8.58E-16	1.71E-15	uCi/ml
11-01010-04	DO	1001-562-1MA2 101117	11/17/10 11:07	1/4/2011	1/5/2011	2.88E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-8.99E-16	9.33E-16	9.38E-16	2.59E-15	uCi/ml
11-01010-05	TRG	1001-562-1MA2 101124	11/24/10 08:44	1/4/2011	1/5/2011	2.82E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	2.76E-16	5.41E-16	5.42E-16	1.02E-15	uCi/ml
11-01010-06	TRG	1001-562-1MA2 101201	12/01/10 08:26	1/4/2011	1/5/2011	2.70E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-5.95E-16	5.49E-16	5.53E-16	1.52E-15	uCi/ml
11-01010-07	TRG	1001-562-1MA2 101208	12/08/10 10:53	1/4/2011	1/5/2011	2.88E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-9.03E-17	4.68E-16	4.68E-16	1.11E-15	uCi/ml
11-01010-08	TRG	1001-562-1MA2 101215	12/15/10 09:21	1/4/2011	1/5/2011	2.83E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	9.70E-17	5.70E-16	5.70E-16	1.19E-15	uCi/ml
11-01010-09	TRG	1001-562-1MA2 101222	12/22/10 09:38	1/4/2011	1/5/2011	3.11E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-3.55E-16	6.50E-16	6.52E-16	1.50E-15	uCi/ml
11-01010-10	TRG	1001-562-1MA2 101229	12/29/10 08:48	1/4/2011	1/5/2011	2.99E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-1.73E-16	5.37E-16	5.37E-16	1.25E-15	uCi/ml
11-01010-11	TRG	1300-562-1MA1 101117	11/17/10 10:58	1/4/2011	1/5/2011	2.63E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	9.79E-17	5.76E-16	5.76E-16	1.21E-15	uCi/ml
11-01010-12	TRG	1300-562-1MA1 101124	11/24/10 10:30	1/4/2011	1/5/2011	2.58E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-3.01E-16	6.52E-16	6.52E-16	1.53E-15	uCi/ml
11-01010-13	TRG	1300-562-1MA1 101201	12/01/10 10:01	1/4/2011	1/5/2011	2.55E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-4.10E-16	4.92E-16	4.94E-16	1.37E-15	uCi/ml
11-01010-14	TRG	1300-562-1MA1 101208	12/08/10 10:26	1/4/2011	1/5/2011	2.71E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	0.00E+00	5.86E-16	5.86E-16	1.30E-15	uCi/ml
11-01010-15	TRG	1300-562-1MA1 101215	12/15/10 11:19	1/4/2011	1/5/2011	2.68E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	-5.96E-16	6.15E-16	6.19E-16	1.60E-15	uCi/ml
11-01010-16	TRG	1300-562-1MA1 101222	12/22/10 10:25	1/4/2011	1/5/2011	2.60E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	0.00E+00	5.71E-16	5.71E-16	1.27E-15	uCi/ml
11-01010-17	TRG	1300-562-1MA1 101229	12/29/10 09:33	1/4/2011	1/5/2011	2.72E+08	11-01010	Gross Alpha	LANL MLR-100 Modified	2.91E-16	5.71E-16	5.72E-16	1.07E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical
Final Report of Analysis

Report To:	Work Order Details:	
Debra Edwards	SDG:	11-01010
Urenco USA	Purchase Order:	LES-GSA-3080
275 Hwy 176	Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231	Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
11-01010-01	LCS	KNOWN	01/04/11 00:00	1/4/2011	1/5/2011		11-01010	Gross Beta	LANL MLR-100 Modified	2.35E-04	7.04E-06			uCi/ml
11-01010-01	LCS	SPIKE	01/04/11 00:00	1/4/2011	1/5/2011		11-01010	Gross Beta	LANL MLR-100 Modified	2.54E-04	4.25E-06	3.54E-05	6.77E-07	uCi/ml
11-01010-02	MBL	BLANK	01/04/11 00:00	1/4/2011	1/5/2011		11-01010	Gross Beta	LANL MLR-100 Modified	6.72E-16	1.29E-15	1.29E-15	2.23E-15	uCi/ml
11-01010-03	DUP	1001-562-1MA2 101117	11/17/10 11:07	1/4/2011	1/5/2011	2.88E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-1.37E-15	2.32E-15	2.33E-15	4.40E-15	uCi/ml
11-01010-04	DO	1001-562-1MA2 101117	11/17/10 11:07	1/4/2011	1/5/2011	2.88E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-5.22E-16	2.38E-15	2.38E-15	4.38E-15	uCi/ml
11-01010-05	TRG	1001-562-1MA2 101124	11/24/10 08:44	1/4/2011	1/5/2011	2.82E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-3.84E-16	1.17E-15	1.17E-15	2.19E-15	uCi/ml
11-01010-06	TRG	1001-562-1MA2 101201	12/01/10 08:26	1/4/2011	1/5/2011	2.70E+08	11-01010	Gross Beta	LANL MLR-100 Modified	0.00E+00	1.36E-15	1.36E-15	2.46E-15	uCi/ml
11-01010-07	TRG	1001-562-1MA2 101208	12/08/10 10:53	1/4/2011	1/5/2011	2.88E+08	11-01010	Gross Beta	LANL MLR-100 Modified	4.93E-16	1.67E-15	1.67E-15	2.91E-15	uCi/ml
11-01010-08	TRG	1001-562-1MA2 101215	12/15/10 09:21	1/4/2011	1/5/2011	2.83E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-4.51E-16	1.42E-15	1.42E-15	2.60E-15	uCi/ml
11-01010-09	TRG	1001-562-1MA2 101222	12/22/10 09:38	1/4/2011	1/5/2011	3.11E+08	11-01010	Gross Beta	LANL MLR-100 Modified	1.01E-15	1.34E-15	1.35E-15	2.28E-15	uCi/ml
11-01010-10	TRG	1001-562-1MA2 101229	12/29/10 08:48	1/4/2011	1/5/2011	2.99E+08	11-01010	Gross Beta	LANL MLR-100 Modified	2.51E-16	1.19E-15	1.19E-15	2.11E-15	uCi/ml
11-01010-11	TRG	1300-562-1MA1 101117	11/17/10 10:58	1/4/2011	1/5/2011	2.63E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-2.91E-16	1.36E-15	1.36E-15	2.49E-15	uCi/ml
11-01010-12	TRG	1300-562-1MA1 101124	11/24/10 10:30	1/4/2011	1/5/2011	2.58E+08	11-01010	Gross Beta	LANL MLR-100 Modified	6.02E-17	1.53E-15	1.53E-15	2.75E-15	uCi/ml
11-01010-13	TRG	1300-562-1MA1 101201	12/01/10 10:01	1/4/2011	1/5/2011	2.55E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-1.17E-15	1.49E-15	1.50E-15	2.84E-15	uCi/ml
11-01010-14	TRG	1300-562-1MA1 101208	12/08/10 10:26	1/4/2011	1/5/2011	2.71E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-2.48E-16	1.71E-15	1.71E-15	3.08E-15	uCi/ml
11-01010-15	TRG	1300-562-1MA1 101215	12/15/10 11:19	1/4/2011	1/5/2011	2.68E+08	11-01010	Gross Beta	LANL MLR-100 Modified	-1.16E-16	1.41E-15	1.41E-15	2.56E-15	uCi/ml
11-01010-16	TRG	1300-562-1MA1 101222	12/22/10 10:25	1/4/2011	1/5/2011	2.60E+08	11-01010	Gross Beta	LANL MLR-100 Modified	8.60E-16	1.55E-15	1.55E-15	2.67E-15	uCi/ml
11-01010-17	TRG	1300-562-1MA1 101229	12/29/10 09:33	1/4/2011	1/5/2011	2.72E+08	11-01010	Gross Beta	LANL MLR-100 Modified	1.20E-15	1.32E-15	1.33E-15	2.21E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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Eberline Analytical

Final Report of Analysis

Report To:		Work Order Details:	
Debbie Edwards		SDG:	11-01011
Urenco USA		Purchase Order:	LES-GSA-3080
275 Hwy 176		Analysis Category:	ENVIRONMENTAL
Eunice, NM 88231		Sample Matrix:	AF

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
11-01011-01	LCS	KNOWN	01/04/11 00:00	1/4/2011	1/5/2011		11-01011	Gross Alpha	LANL MLR-100 Modified	3.15E-04	1.35E-05			uCi/ml
11-01011-01	LCS	SPIKE	01/04/11 00:00	1/4/2011	1/5/2011		11-01011	Gross Alpha	LANL MLR-100 Modified	2.99E-04	7.71E-06	3.36E-05	5.45E-07	uCi/ml
11-01011-02	MBL	BLANK	01/04/11 00:00	1/4/2011	1/5/2011		11-01011	Gross Alpha	LANL MLR-100 Modified	-3.16E-16	4.06E-16	4.07E-16	1.10E-15	uCi/ml
11-01011-03	DUP	1001-562-1MA1 101117	11/17/10 11:25	1/4/2011	1/5/2011	2.73E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	5.56E-16	6.79E-16	6.82E-16	1.33E-15	uCi/ml
11-01011-04	DO	1001-562-1MA1 101117	11/17/10 11:25	1/4/2011	1/5/2011	2.73E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	-8.54E-16	7.20E-16	7.26E-16	2.16E-15	uCi/ml
11-01011-05	TRG	1001-562-1MA1 101124	11/24/10 08:42	1/4/2011	1/5/2011	2.82E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	3.10E-16	2.30E-16	2.32E-16	1.33E-16	uCi/ml
11-01011-06	TRG	1001-562-1MA1 101201	12/01/10 08:30	1/4/2011	1/5/2011	2.88E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	2.77E-16	3.38E-16	3.40E-16	6.64E-16	uCi/ml
11-01011-07	TRG	1001-562-1MA1 101208	12/08/10 10:52	1/4/2011	1/5/2011	2.97E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	-4.05E-16	3.85E-16	3.87E-16	1.10E-15	uCi/ml
11-01011-08	TRG	1001-562-1MA1 101215	12/15/10 09:24	1/4/2011	1/5/2011	2.83E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	-3.68E-16	2.55E-16	2.58E-16	8.79E-16	uCi/ml
11-01011-09	TRG	1001-562-1MA1 101222	12/22/10 09:34	1/4/2011	1/5/2011	2.97E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	-2.77E-16	2.86E-16	2.88E-16	8.83E-16	uCi/ml
11-01011-10	TRG	1001-562-1MA1 101229	12/29/10 08:52	1/4/2011	1/5/2011	2.88E+08	11-01011	Gross Alpha	LANL MLR-100 Modified	-5.27E-16	4.69E-16	4.73E-16	1.30E-15	uCi/ml
11-01011-01	LCS	KNOWN	01/04/11 00:00	1/4/2011	1/5/2011		11-01011	Gross Beta	LANL MLR-100 Modified	2.34E-04	7.02E-06			uCi/ml
11-01011-01	LCS	SPIKE	01/04/11 00:00	1/4/2011	1/5/2011		11-01011	Gross Beta	LANL MLR-100 Modified	2.59E-04	6.06E-06	3.63E-05	9.04E-07	uCi/ml
11-01011-02	MBL	BLANK	01/04/11 00:00	1/4/2011	1/5/2011		11-01011	Gross Beta	LANL MLR-100 Modified	-1.26E-15	1.03E-15	1.04E-15	2.32E-15	uCi/ml
11-01011-03	DUP	1001-562-1MA1 101117	11/17/10 11:25	1/4/2011	1/5/2011	2.73E+08	11-01011	Gross Beta	LANL MLR-100 Modified	-8.47E-16	1.83E-15	1.83E-15	4.03E-15	uCi/ml
11-01011-04	DO	1001-562-1MA1 101117	11/17/10 11:25	1/4/2011	1/5/2011	2.73E+08	11-01011	Gross Beta	LANL MLR-100 Modified	-1.27E-15	1.73E-15	1.74E-15	3.88E-15	uCi/ml
11-01011-05	TRG	1001-562-1MA1 101124	11/24/10 08:42	1/4/2011	1/5/2011	2.82E+08	11-01011	Gross Beta	LANL MLR-100 Modified	3.46E-16	8.56E-16	8.57E-16	1.80E-15	uCi/ml
11-01011-06	TRG	1001-562-1MA1 101201	12/01/10 08:30	1/4/2011	1/5/2011	2.88E+08	11-01011	Gross Beta	LANL MLR-100 Modified	1.09E-16	8.93E-16	8.93E-16	1.90E-15	uCi/ml
11-01011-07	TRG	1001-562-1MA1 101208	12/08/10 10:52	1/4/2011	1/5/2011	2.97E+08	11-01011	Gross Beta	LANL MLR-100 Modified	-3.43E-16	8.57E-16	8.58E-16	1.88E-15	uCi/ml
11-01011-08	TRG	1001-562-1MA1 101215	12/15/10 09:24	1/4/2011	1/5/2011	2.83E+08	11-01011	Gross Beta	LANL MLR-100 Modified	-1.67E-16	1.17E-15	1.17E-15	2.50E-15	uCi/ml
11-01011-09	TRG	1001-562-1MA1 101222	12/22/10 09:34	1/4/2011	1/5/2011	2.97E+08	11-01011	Gross Beta	LANL MLR-100 Modified	-9.40E-16	9.26E-16	9.35E-16	2.09E-15	uCi/ml
11-01011-10	TRG	1001-562-1MA1 101229	12/29/10 08:52	1/4/2011	1/5/2011	2.88E+08	11-01011	Gross Beta	LANL MLR-100 Modified	7.63E-16	1.01E-15	1.01E-15	2.07E-15	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:	
Matthew Lane	
GL Environmental	
421 Bibb Industrial Drive	
Las Vegas, NM 87701	

Work Order Details:	
SDG:	10-07073
Project:	Wastewater
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	WA

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-07073-01	LCS	KNOWN	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-234	EML U-02 Modified	8.28E-06	2.98E-07			uCi/ml
10-07073-01	LCS	SPIKE	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-234	EML U-02 Modified	7.22E-06	1.23E-06	1.23E-06	7.83E-08	uCi/ml
10-07073-02	MBL	BLANK	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-234	EML U-02 Modified	4.43E-10	3.08E-10	3.08E-10	2.29E-10	uCi/ml
10-07073-03	DUP	Lift Station #1	07/13/10 08:40	7/14/2010	7/31/2010	10-07073	Uranium-234	EML U-02 Modified	1.47E-09	8.27E-10	8.27E-10	2.78E-10	uCi/ml
10-07073-04	DO	Lift Station #1	07/13/10 08:40	7/14/2010	7/31/2010	10-07073	Uranium-234	EML U-02 Modified	1.14E-09	5.92E-10	5.92E-10	3.67E-10	uCi/ml
10-07073-01	LCS	SPIKE	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-235	EML U-02 Modified	5.50E-07	2.05E-07	2.05E-07	4.29E-08	uCi/ml
10-07073-02	MBL	BLANK	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-235	EML U-02 Modified	6.18E-11	1.24E-10	1.24E-10	1.64E-10	uCi/ml
10-07073-03	DUP	Lift Station #1	07/13/10 08:40	7/14/2010	7/31/2010	10-07073	Uranium-235	EML U-02 Modified	2.59E-10	3.69E-10	3.69E-10	3.43E-10	uCi/ml
10-07073-04	DO	Lift Station #1	07/13/10 08:40	7/14/2010	7/31/2010	10-07073	Uranium-235	EML U-02 Modified	7.00E-11	1.71E-10	1.71E-10	3.85E-10	uCi/ml
10-07073-01	LCS	KNOWN	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-238	EML U-02 Modified	8.07E-06	2.90E-07			uCi/ml
10-07073-01	LCS	SPIKE	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-238	EML U-02 Modified	7.39E-06	1.25E-06	1.25E-06	3.46E-08	uCi/ml
10-07073-02	MBL	BLANK	07/15/10 00:00	7/14/2010	7/31/2010	10-07073	Uranium-238	EML U-02 Modified	4.99E-11	1.00E-10	1.00E-10	1.32E-10	uCi/ml
10-07073-03	DUP	Lift Station #1	07/13/10 08:40	7/14/2010	7/31/2010	10-07073	Uranium-238	EML U-02 Modified	1.03E-09	6.86E-10	6.86E-10	4.77E-10	uCi/ml
10-07073-04	DO	Lift Station #1	07/13/10 08:40	7/14/2010	7/31/2010	10-07073	Uranium-238	EML U-02 Modified	4.65E-10	3.68E-10	3.68E-10	3.11E-10	uCi/ml

Eberline Analytical
Final Report of Analysis

Report To:	
Matthew Graves	
URENCO USA	
275 Hwy 176	
Eunice, NM 88231	

Work Order Details:	
SDG:	10-10065
Purchase Order:	URENCO USA
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	WA

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
10-10065-01	LCS	KNOWN	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-234	EML U-02 Modified	8.27E-06	2.98E-07			uCi/ml
10-10065-01	LCS	SPIKE	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-234	EML U-02 Modified	7.94E-06	1.34E-06	1.34E-06	6.04E-08	uCi/ml
10-10065-02	MBL	BLANK	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-234	EML U-02 Modified	9.65E-11	9.75E-11	9.75E-11	6.39E-11	uCi/ml
10-10065-03	DUP	LIFT STATION #1	10/12/10 12:30	10/13/2010	10/26/2010	10-10065	Uranium-234	EML U-02 Modified	1.75E-09	5.48E-10	5.48E-10	1.92E-10	uCi/ml
10-10065-04	DO	LIFT STATION #1	10/12/10 12:30	10/13/2010	10/26/2010	10-10065	Uranium-234	EML U-02 Modified	2.20E-09	6.55E-10	6.55E-10	9.39E-11	uCi/ml
10-10065-01	LCS	SPIKE	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-235	EML U-02 Modified	3.43E-07	1.58E-07	1.58E-07	4.33E-08	uCi/ml
10-10065-02	MBL	BLANK	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-235	EML U-02 Modified	5.95E-11	8.46E-11	8.46E-11	7.88E-11	uCi/ml
10-10065-03	DUP	LIFT STATION #1	10/12/10 12:30	10/13/2010	10/26/2010	10-10065	Uranium-235	EML U-02 Modified	3.96E-11	7.94E-11	7.94E-11	1.05E-10	uCi/ml
10-10065-04	DO	LIFT STATION #1	10/12/10 12:30	10/13/2010	10/26/2010	10-10065	Uranium-235	EML U-02 Modified	1.60E-10	1.78E-10	1.78E-10	2.34E-10	uCi/ml
10-10065-01	LCS	KNOWN	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-238	EML U-02 Modified	8.06E-06	2.90E-07			uCi/ml
10-10065-01	LCS	SPIKE	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-238	EML U-02 Modified	7.94E-06	1.34E-06	1.34E-06	6.02E-08	uCi/ml
10-10065-02	MBL	BLANK	10/15/10 00:00	10/13/2010	10/26/2010	10-10065	Uranium-238	EML U-02 Modified	4.39E-11	6.87E-11	6.87E-11	1.10E-10	uCi/ml
10-10065-03	DUP	LIFT STATION #1	10/12/10 12:30	10/13/2010	10/26/2010	10-10065	Uranium-238	EML U-02 Modified	8.63E-10	3.58E-10	3.58E-10	8.47E-11	uCi/ml
10-10065-04	DO	LIFT STATION #1	10/12/10 12:30	10/13/2010	10/26/2010	10-10065	Uranium-238	EML U-02 Modified	9.11E-10	3.87E-10	3.87E-10	1.61E-10	uCi/ml