TA-54

Los Alamos
NATIONAL LABORATORY
EST. 1943

Date: November 15, 2004
Refer To: ER2004-0637

Environmental Stewardship (ENV)
Remediation Services (RS), MS M992
Los Alamos, New Mexico 87545
(505) 667-0808/FAX (505) 665-4747

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NOV 2004
NMED Hazardous Waste Bureau

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED-Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303

SUBJECT: SAMPLING NOTIFICATION

Dear Mr. Young:

Beginning November 17, 2004 through January 31, 2005 the Los Alamos National Laboratory (LANL) Environmental Stewardship-Remediation Services (ENV-RS) Project is planning to collect samples through the course of the Material Disposal Area L drilling project.

The ENV-RS Project will verbally confirm and/or notify the New Mexico Environmental Department-Hazardous Waste Bureau staff of any changes to the schedule. Results from the sampling will be presented in a future Investigation Report for MDA L. The sampling is summarized in the following table, which indicates the minimum number of samples to be collected:

11862

Plan/Document	Sample Locations	Number of Samples	Sample Type	Analyses
ER2003-0766 R1 LA-UR-03-9120 Approval with Modifications Investigation Work Plan Material Disposal Area L (MDA L) Los Alamos National Laboratry EPA ID# NM0890010515 LANL -03-010	BH A new borehole location	2 samples	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (- Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
		6 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
	BH B new borehole location	2 samples	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (including Li) - Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
	BH B new borehole location (cont'd)	6 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium

Plan/Document	Sample Locations	Number of Samples	Sample Type	Analyses
				(238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
	BH C new borehole location	2 samples	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (including LI) - Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
		11 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241

Plan/Document	Sample Locations	Number of Samples	Sample Type	Analyses
	BH D new borehole location	2 samples (1 sample at base depth of Shaft 27 and 1 sample at total depth)	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (including Li) - Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
		6 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
		140 samples (1 sample every 5 feet)	Subsurface soil/fill/tuff	- Moisture Content and Matric Potential
		70 samples (1 sample every 10 feet)	Subsurface soil/fill/tuff	- Chloride
		12 samples (4 in Tshirege, 2 in Cerro Toledo, 5 in Otowi, 1 in Guaje)	Subsurface soil/fill/tuff	- Saturated and unsaturated hydraulic conductivity - Porosity - Bulk Density

Plan/Document	Sample Locations	Number of Samples	Sample Type	Analyses
	BH E new borehole location	2 samples	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (including Li) - Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
		6 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
	BH F new borehole location	2 samples	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (including Li) - Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
	BH F new borehole location (cont'd)	6 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and

Plan/Document	Sample Locations	Number of Samples	Sample Type	Analyses
				gamma radiation - Americium-241
	BH G new borehole location	2 samples	Subsurface soil/fill/tuff	- VOCs - SVOCs - PCBs - TAL metals (including Li) - Nitrates - perchlorates - Cyanide - pH - dioxins and furans - explosive compounds - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241
		6 samples	Subsurface soil/fill/tuff	- TAL metals (including Li) - Nitrates - perchlorates - Cyanide - Isotopic Uranium (234/235/238) - Isotopic Plutonium (238/239/240) - gamma spectroscopy - Strontium-90 - gross alpha, beta and gamma radiation - Americium-241

If you have any questions or concerns please call John Hopkins at (505) 667-9551.

Sincerely,

Gabriela Lopez-Escobedo, Program Manager
Environmental Stewardship
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JH/BC/ds

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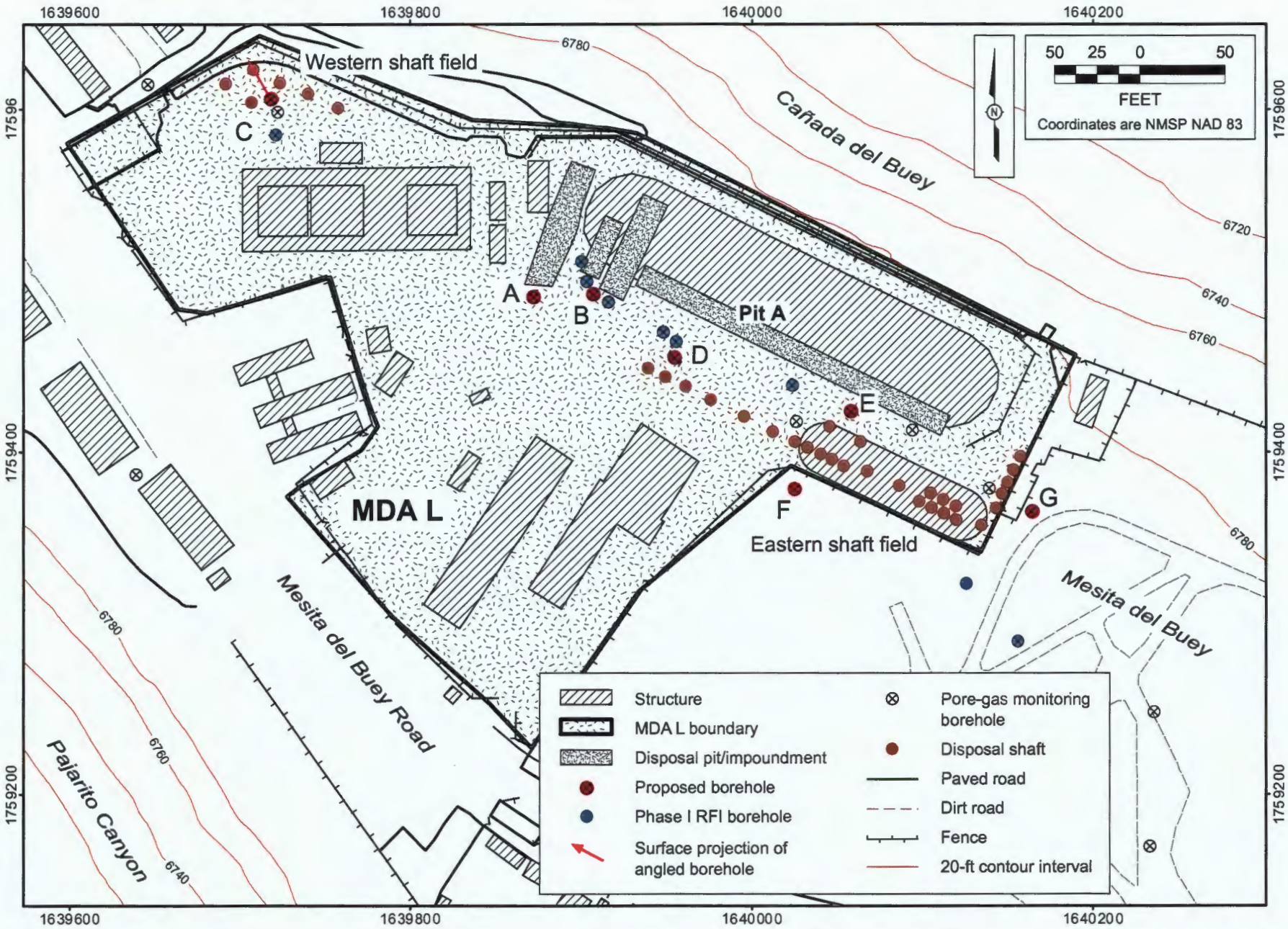

Source: RRES-RS map R03079, 082103, MO_Rev. for F20, MDA L IWP Rev.1, 101204, mh

Figure 20. Locations of existing and proposed boreholes at MDA L