



Environmental Programs

P.O. Box 1663, MS M991

Los Alamos, New Mexico 87545

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Date: APR 12 2011

Refer To: EP2011-0140

Pete Padilla
Environmental Compliance Officer
Department of Public Utilities
County of Los Alamos
P.O. Drawer 1030
Los Alamos, NM 87544

Subject: Los Alamos National Laboratory Sitewide Monitoring Program, Los Alamos County Water-Supply Wells, Revised Sampling Plan

Dear Mr. Padilla:

As you are aware, under Los Alamos National Laboratory's (the Laboratory's) Sitewide Monitoring Program, all Los Alamos County (County) water-supply wells are routinely sampled for both general characterization and for specific chemicals of concern. The Laboratory and County have historically conducted an annual review of the sampling plan to ensure it is dynamic, strategic, and mutually beneficial. Enclosed is the Laboratory's proposed sampling plan for 2011–2012; no changes from the 2010–2011 sampling plan are recommended at this time. This plan is the product of input from the County Utilities Department, the Laboratory's technical staff, and the Water Quality Steering Committee.

During the coming year, the Laboratory may find additional monitoring is required for project-specific needs. Any proposed additions to the sampling plan will be presented in advance to the Water Quality Steering Committee for its approval.

If you would like additional information regarding this report, please contact Bob Beers at (505) 667-7969 (bbeers@lanl.gov).

Sincerely,

A handwritten signature in cursive script that reads 'Michael J. Graham'.

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

MG/CD/SP/BB:sm

Enclosure: 2011–2012 Revised Sampling and Analysis Plan (LA-UR-11-10222)

Cy: (w/att.)

Tim Glasco, Utilities Dept., 101 Camino Entrada, Bldg #5, Los Alamos, NM 87544
Wayne Witten, Utilities Dept., 101 Camino Entrada, Bldg #5, Los Alamos, NM 87544
Cheryl Rodriguez, DOE-LASO, MS A316
Gene Turner, DOE-LASO, MS A316
Bob Beers, ENV-RCRA, MS K490
RPF, MS M707 (with two CDs)

Cy: (Letter and CD and/or DVD only))

Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Hai Shen, DOE-LASO, MS A316
Steve Paris, EP-CAP, MS M992
Suzanne Coyne, IRM-DCS, MS M992
William Alexander, EP-BPS, MS M992

Cy: (w/o att.)

Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamped letter emailed)
Annette Russell, DOE-LASO (date-stamped letter emailed)
James C. Cantwell, ADESHQ, MS K491 (date-stamped letter emailed)
Mike Saladen, ENV-RCRA, MS K490 (date-stamped letter emailed)
Danny Katzman, EP-ET, MS M992 (date-stamped letter emailed)
Craig Douglass, EP-CAP, MS M992 (date-stamped letter emailed)
Michael J. Graham, ADEP, MS M991 (date-stamped letter emailed)

Los Alamos County Production Wells, Sampling and Analysis Plan, 2011-2012.

		Analytes by Sampling Event			
Location	Field Prep	Quarter 1 (Jan-Mar, 2012)	Quarter 2 (Apr-June, 2011)	Quarter 3 (July-Sept, 2011)	Quarter 4 (Oct-Dec, 2011)
G-1A	UF		full suite		
G-1A	F		total Cr		
G-2A	UF		full suite		
G-2A	F		total Cr		
G-3A	UF		full suite		
G-3A	F		total Cr		
G-4A	UF		full suite		
G-4A	F		total Cr		
G-5A	UF		full suite		
G-5A	F		total Cr		
O-4	UF	ClO4, tritium, molybdenum	full suite, DRO	ClO4, tritium, molybdenum	ClO4, tritium, molybdenum, DRO
O-4	F	total Cr	total Cr	total Cr	total Cr
O-1	UF	ClO4	full suite	ClO4	ClO4, tritium
O-1	F		total Cr		
PM-1	UF		full suite		ClO4, tritium
PM-1	F	total Cr	total Cr	total Cr	total Cr
PM-2	UF	VOCs	full suite	VOCs	ClO4, tritium, HE, VOCs
PM-2	F		total Cr		
PM-3	UF		full suite		ClO4, tritium
PM-3	F	total Cr	total Cr	total Cr	total Cr
PM-4	UF	ClO4, tritium, NO3+NO2-N	full suite	ClO4, tritium, NO3+NO2-N	ClO4, tritium, HE, NO3+NO2-N
PM-4	F	total Cr	total Cr	total Cr	total Cr
PM-5	UF	ClO4, tritium, NO3+NO2-N	full suite	ClO4, tritium, NO3+NO2-N	ClO4, tritium, HE, NO3+NO2-N
PM-5	F	total Cr	total Cr	total Cr	total Cr

Full-Suite Analyte List

Analytes	Analytical Method	Analytes	Analytical Method
TAL metals (23)	EPA:200.7, EPA: 200.8	gross alpha/beta/gamma	EPA:901.1
Hg	EPA:245.2	Ra-226 & -228	EPA:903.1 & EPA:904.4
U (mass)	SW-846:6020	Sr-90	EPA:905.0
TDS	EPA:160.1	low-level tritium	American Radiation Services
anions: Cl, F, SO4, Br	EPA:300.0	Am-241	HASL-300:AM-241
alkalinity	EPA:310.1	Cs-137	EPA:901.1
hardness	SM:A2340B	Np-237	HASL-300:Np-237
cyanide	EPA:335.4	Pu (isotopic)	HASL-300:ISOPU
ammonia	EPA:350.1	U (isotopic)	HASL-300:ISOU
TKN	EPA:351.2	Th (isotopic)	HASL-300:ISOTH
nitrate+nitrite	EPA:353.2	PCBs	SW-846:8082
total P	EPA:365.4	high explosives	SW-846:8321A_MOD
VOC & SVOC	SW-848:8260/8270	perchlorate	SW846 6850 Modified

Notes:

Quality Control (QC) samples: Field Trip Blanks (FTBs) with all VOC samples, 10% Field Duplicate (FD) samples, and 10% Field Blank (FB) samples.