

Radionuclide Analysis Facility
Gamma Analysis Report
 Issued by Meka E. Francis

Report Date: January 5, 2016
 Work Request #: 15-346
 Submitted by: M. Quinn on 11/30/2015
 Workbook: HPGe #2-11, page 27

LArTF Sieves (Vacuum Extracted)

The ESH&Q Section/RP Group submitted 1 molecular sieve sample on Work Request# 15-346 for analysis of naturally produced radionuclides. The samples were counted on detector HPGe#2 for 24 hours on the dates listed below. Averaged results for blank sample 151112MF03 were subtracted from the averaged sample results to obtain the activities quoted.

Sample ID#	Sample Time	Location	Container	Count Info	Mass	Count Dates	Radionuclide	Activity (pCi/g)	Activity (Bq/kg)
151125RK02	12:00	Molecular Sieves Removed by Vacuum	250 mL Bottle	86,400 sec @ 4cm	181.502 g	12/11/15 @ 14:30 12/24/15 @ 9:54	Thorium Series		
							Ac-228	0.12 ± 0.04	4 ± 2
							Pb-212	0.13 ± 0.03	5 ± 1
							Tl-208	0.05 ± 0.01	1.8 ± 0.6
							Uranium Series		
							Ra-226	0.6 ± 0.2	23 ± 8
							Pb-214	0.36 ± 0.04	13 ± 2
Bi-214	0.38 ± 0.06	14 ± 2							
							K-40	2.1 ± 0.7	80 ± 30

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