Project: MU Pickard Hall, C0911021	Survey Unit: Basement (Concrete)	Type of Survey: Characterization	Surveyor 1: Ken Gavlik	Surveyor 2:	Date: 12/10/09	Page: 1 of 1

Instrument / Serial # Detector / Serial #	Source Check	Cal. Due	Type	Total/ Removable	Bkgd (cpm)	2 π Efficiency	Surface Efficiency	Total Efficiency	Count Time (min) Sample	Count Time (min) Bkg.	Area (cm^2)	MDC ($dpm/100cm^2$)	IL ($dpm/100cm^2$)	MDC % of IL
2241-3 / 253363 43-68 / 190903	SAT	8/4/2010	Beta	Total	359	45.33%	0.25	11.33%	1	1	126	638	1000	64%
2241-3 / 253363 43-68 / 190903	SAT	8/4/2010	Alpha	Total	12	46.76%	0.25	11.69%	1	1	126	130	100	130%

Comments:
Measurements taken at locations where concrete samples were collected, before and after sampling to determine the effectiveness of activity removal.

Reviewed: Dave Culp **Date:** 12/11/09

Total Surface Activity

Beta

Location - Room	Gross Counts	Net cpm	Activity ($dpm/100cm^2$)	Notes	Fraction of IL
Location 5 (before)	13589	13230	**92,654**		92.65
Location 6 (before)	51268	50909	**356,532**		356.53
Location 7 (before)	33217	32858	**230,115**		230.11
Location 8 (before)	22634	22275	**155,999**		156.00
Location 9 (before)	49638	49279	**345,116**		345.12
Location 10 (before)	42213	41854	**293,117**		293.12
Location 5 (after)	3834	3475	**24,337**		24.34
Location 6 (after)	1128	769	**5,386**		5.39
Location 7 (after)	9447	9088	**63,646**		63.65
Location 8 (after)	4510	4151	**29,071**		29.07
Location 9 (after)	4774	4415	**30,920**		30.92
Location 10 (after)	3384	3025	**21,185**		21.19

Alpha

Location - Room	Gross Counts	Net cpm	Activity ($dpm/100cm^2$)	Notes	Fraction of IL	Sum of Fractions
Location 5 (before)	357	345	**2,342**		23.42	N/A
Location 6 (before)	2964	2952	**20,042**		200.42	N/A
Location 7 (before)	829	817	**5,547**		55.47	N/A
Location 8 (before)	553	541	**3,673**		36.73	N/A
Location 9 (before)	2843	2831	**19,220**		192.20	N/A
Location 10 (before)	4345	4333	**29,417**		294.17	N/A
Location 5 (after)	20	8	**54**	<MDC	0.54	N/A
Location 6 (after)	58	46	**312**		3.12	N/A
Location 7 (after)	64	52	**353**		3.53	N/A
Location 8 (after)	143	131	**889**		8.89	N/A
Location 9 (after)	98	86	**584**		5.84	N/A
Location 10 (after)	155	143	**971**		9.71	N/A

Removable Surface Activity

Beta

Location - Room	Gross Counts	Net cpm	Activity ($dpm/100cm^2$)	Notes	Fraction of IL
Location 5 (before)					
Location 6 (before)					
Location 7 (before)					
Location 8 (before)					
Location 9 (before)					
Location 10 (before)					
Location 5 (after)					
Location 6 (after)					
Location 7 (after)					
Location 8 (after)					
Location 9 (after)					
Location 10 (after)					

Alpha

Location - Room	Gross Counts	Net cpm	Activity ($dpm/100cm^2$)	Notes	Fraction of IL	Sum of Fractions
Location 5 (before)						
Location 6 (before)						
Location 7 (before)						
Location 8 (before)						
Location 9 (before)						
Location 10 (before)						
Location 5 (after)						
Location 6 (after)						
Location 7 (after)						
Location 8 (after)						
Location 9 (after)						
Location 10 (after)						