IOSB SCOPING SURVEY SUMMARY DATA

General Information						Beta Static Measurements			Beta Scanning Floors			Beta Scanning Walls			Gamma Scan		
Survey Unit	Description	Class	Size	Number of Systematic Measurements	Scanned	Min (dpm/100 cm^2)	Max (dpm/100 cm^2)	Average (dpm/100 cm^2)	Min (dpm)	Max (dpm)	Average (dpm)	Min (dpm/100 cm^2)	Max (dpm/100 cm^2)	Average (dpm/100 cm^2)	Min (cpm)	Max (cpm)	Average (cpm)
01	DAW Bay	3	368 m^2	75	100% of Floor and 10% of Walls and Ceiling	• Walls - 1,473 • Floor - 2,036	• Walls - 2,000 • Floor - 2,836	• Walls - 1,724 • Floor - 2,480	8,898	13,474	10,441	1,795	3,846	2,599	NA	NA	NA
02	Staging Bay	3	249 m^2	73	100% of Floor and 10% of Walls and Ceiling	• Walls - 1,438 • Floor - 1,591	• Walls - 2,719 • Floor - 2,664	• Walls - 2,023 • Floor - 1,984	8,034	48,383	11,886	1,882	3,765	2,841	NA	NA	NA
03	Staging Bay Floor [1]	1	<0.4 m^2	8	100% as part of DAW Staging Bay	56,178	132,020	81,130	see SU02	see SU02	see SU02	NA	NA	NA	NA	NA	NA
04	Staging Bay Floor Buffer[2]	2	NA	see SU03	100% as part of DAW Staging Bay	see SU02	see SU02	see SU02	see SU02	see SU02	see SU02	NA	NA	NA	NA	NA	NA
05	Storage Cells (15 cells)	3	77 m^2 ea. cell 1,155 m^2 Total	60 ea. cell (900 total)	100% of Floor and 10% of Walls	1,364	4,674	2,251	4,541	8,093	6,825	1,282	5,641	3,585	NA	NA	NA
06	Truck Bay	3	380 m^2	109	100% of Floor and 10% of Walls and Ceiling	• Walls - 1,527 • Floor - 1,973	• Walls - 1,982 • Floor - 2,200	• Walls - 1,791 • Floor - 1,915	5,534	67,627	10,127	2,857	5,714	4,202	NA	NA	NA
07	Hot Cell[3]	1	<1.0 m^2	27		84,078	2,416,455 *	412,380**	NA	NA	NA	NA	NA	NA	NA	NA	NA
08	Loading Dock[3]	1	1.08 m^2	202	100% of Hot Spot	1,655	249,941	32,777	NA	NA	NA	NA	NA	NA	NA	NA	NA
09	Loading Dock Buffer[2]	2	NA	see SU 04	100% as part of Truck Bay	see SU 04	see SU 04	see SU 04	see SU 04	see SU 04	see SU 04	NA	NA	NA	NA	NA	NA
10	Cell Deck	3	443 m^2	34	10% of Walls and Ceiling	1,445	1,973	1,678	NA	NA	NA	1,795	3,077	2,510	NA	NA	NA
11	Sump[4]	3	36 m^2	36	100% of Floor and 10% of Walls and Ceiling										NA	NA	NA
12	Embedded Piping	3		565	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA			
13	Service Head	3	186 m^2	75	10%										NA	NA	NA
14	Septic Tank	3	NA	1	0%												
15	Overhead Crane	3	NA	10	10%												
16	Outside Area	3	4,047 m^2	30	100%				NA	NA	NA	NA	NA	NA			
17	Roof	3	1,625 m^2	32	100%	1,766	3,766	2,498	NA	NA	NA	NA	NA	NA	12,116	22,636	16,421
18	Overhead Piping	3	NA	40	10%	1,145	2,391	1,681	NA	NA	NA	1,647	3,846	2,493	NA	NA	NA
19	Ventilation Supply	3	NA	12	Static and Scans taken at vents	1,255	2,045	1,558	NA	NA	NA	1,795	3,333	2,521	NA	NA	NA
20	Ventilation Exhaust	3	NA	8	Static and Scans taken at vents	1,527	5,564	2,670	NA	NA	NA	2,564	7,692	3,782	NA	NA	NA

[1]Data presented has been normalized to 100 cm^2 by factor of 2.5

[2]Buffer area data is currently part of the Truck Bay or DAW Staging Bay floor. Buffer anticipated to be 10 ft surrounding Class 1 SU

[3]Data shown is based on characterization of elevated area only using 2360 with 43-93 a/b detector.

[4]Data is for the upper and lower main sump located in Truck Bay

Area data not available at this time

DCGL = 43,000 dpm/100 cm^2 gross beta activity per RSLTP

*$DCGL_{EMC}$ for Hot Cell Highest Point= 43,000 *1,294 = 55,642,000 dpm/100 cm^2 (area factor from DTDB 05-003)

**$DCGL_{EMC}$ for Hot Cell Elevated Area = 43,000 *15 = 645,000 dpm/100 cm^2 (area factor from DTDB 05-003)