GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	44	Dates:	10/28/2018-11/03/2018	Counted On	10/30/2018
INSTRUMENT USED: Quantasmart (Serial# 073396)		CONTROL FACTOR:		1.40E-06	
CHANNEL ENERGY RANGE (keV)		CH A: 4-200	CH B: 200-2000	CH C: 4-2000	
COUNTING TIME: 5 Min.	uCi/swipe = CPM:C * Control Factor			uCi/cm2 = CPM:C * Control Factor / 100	
Limit of quantification (LOQ)=	9.06E-08 uCi/cm^2	QUANTIFICATION BELOW REG GUIDE 8.23 LIMITS OK			

Swipe #	LOCATION: ROOM # & AREA/OBJECT	GROSS CPM CHANNEL C	uCi/swipe	uCi/cm^2	NOTE:
1.	BACKGROUND 1	32	**********	*********	
2.	BACKGROUND 2	29	**********	*********	
3.	BACKGROUND 3	30	**********	*********	
4.	BACKGROUND 4	31	**********	*********	
5.	BACKGROUND 5	32	**********	*********	
6.	BACKGROUND 6	36	**********	*********	
7.	ELEVATOR ENTRANCE	32	M	M	
8.	FENCED GATE	35	M	M	
9.		32	M	M	
10.		33	M	M	
11.		37	M	M	
12.		31	M	M	
13.		33	M	M	
14.		36	M	M	
15.		31	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50111	**********	**********	
	101.04%	CALIBRATION CHECK OK?	YES	

Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable contaimination limit of 1 x 10^{-6} uCi/cm^2.

SURVEY PREPARED BY: Maddison Heine	REVIEWED BY: Corey Hines
SIGN/DATE: Maddison Heine 10/30/2018	SIGN/DATE: [illegible] 10/30/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181030_1211
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181030_1211\20181030_1211.results
Assay File Name: C:\Packard\TriCarb\Assays\Reactor Weekly.lsa

Count Conditions-

Nuclide: Reactor
Quench Indicator: tSIE/AEC
External Std Terminator (sec): 0.5 2s%
Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 5.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	4.0	200.0
B	200.0	2000.0
C	4.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: Off
Colored Samples: n/a Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

P#	DATE	TIME	S#	Count Time	CPMA	CPMB	CPMC	SIS	MESSAGES
1	10/30/2018	12:12:53 PM	1	5.00	27	5	32	250.26	
1	10/30/2018	12:19:09 PM	2	5.00	22	7	29	361.60	
1	10/30/2018	12:25:24 PM	3	5.00	25	5	30	266.35	
1	10/30/2018	12:31:38 PM	4	5.00	26	5	31	214.30	
1	10/30/2018	12:37:45 PM	5	5.00	24	7	32	279.17	
1	10/30/2018	12:43:53 PM	6	5.00	30	7	36	274.74	
1	10/30/2018	12:50:08 PM	7	5.00	23	9	32	282.80	
1	10/30/2018	12:56:22 PM	8	5.00	26	9	35	244.09	
1	10/30/2018	1:02:38 PM	9	5.00	22	10	32	306.05	
1	10/30/2018	1:08:48 PM	10	5.00	25	8	33	272.28	
1	10/30/2018	1:15:03 PM	11	5.00	28	10	37	274.66	
1	10/30/2018	1:21:18 PM	12	5.00	25	6	31	193.44	

1	10/30/2018	1:27:36 PM	13	5.00	24	8	33	266.12
1	10/30/2018	1:33:51 PM	14	5.00	28	8	36	321.56
1	10/30/2018	1:40:03 PM	15	5.00	24	7	31	308.28
1	10/30/2018	1:45:42 PM	16	5.00	14645	35466	50111	1011.86

LABORATORY SURVEY

Radiation Safety Office
Washington State University
Pullman, WA 99164-1302
(509) 335 8916

Building	Room	Lab Class	Survey Instrument	Serial No.	Radiation Detected
Dodgen Research Facility	B0021 - GUO	D	GM Detector Model 177	099159	Gamma
Authorized User	**Date**	**Time**	**Swipe Instrument**	**Serial No.**	**Radiation Detected**
Xiaofeng Guo	10/30/18	1234	Quantasmart	073396	Beta/Gamma

Reactor Status (Check One) ON ☐ OFF ☑

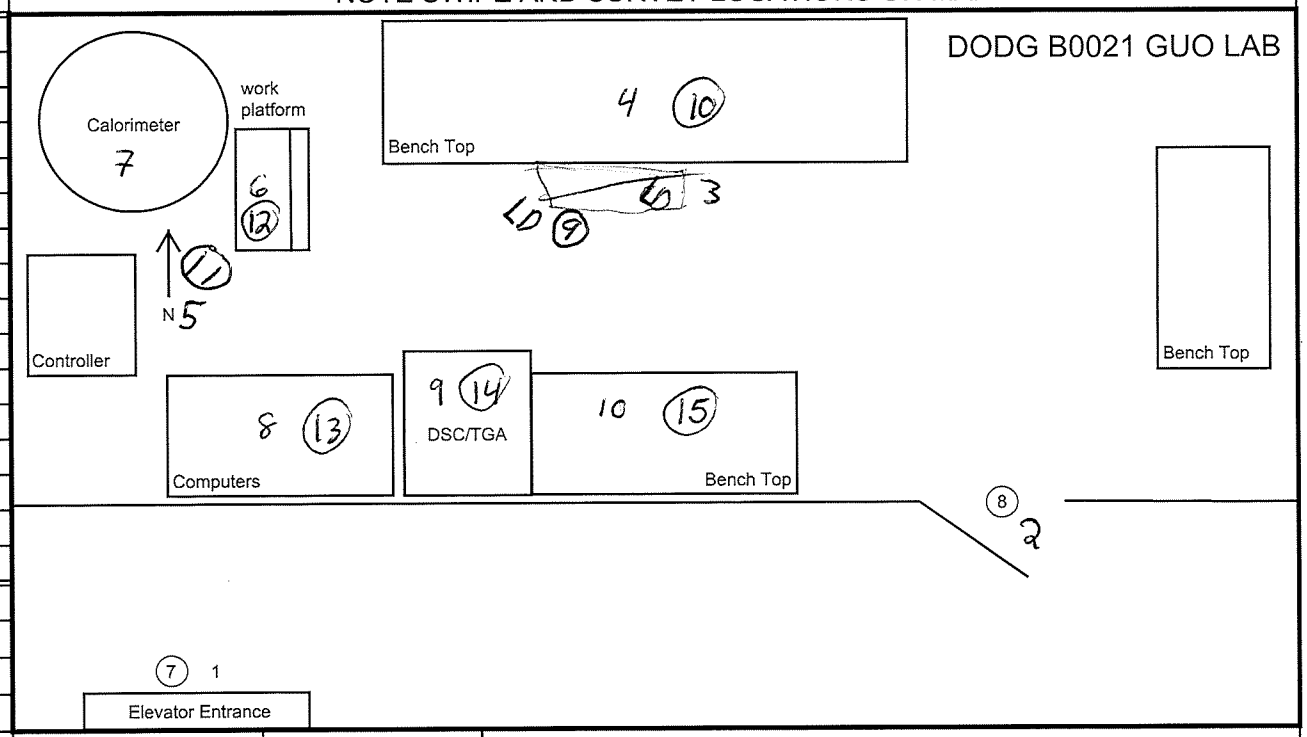
LSC Printout Date: 10/30/18

Survey #	Location	CPM
1	Elevator Entrance	<260
2	South Floor	<260
3	East Lab Floor	<260
4	North Bench Top	<260
5	West Lab Floor	<260
6	Work Platform	<260
7	Calorimeter	<260
8	Computers	<260
9	DSC/TGA	<260
10	South Bench Top	<260

Swipe # and Locations

7	Elevator Entrance		
8	Gated Fence Floor		
9	East Lab Floor		
10	North Bench Top		
11	West Lab Floor		
12	Work Platform		
13	Computers		
14	DSC/TGA		
15	South Bench Top		

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Surveyed By:	Date:	Notes
AG	10/30/18	
Swiped By:	**Date:**	
LD	10/30/18	
Reviewed By:	**Date:**	
[signature]	10/30/2018	

Circled numbers on map indicate a swipe area of 100 square cm. Numbers not circled indicate a survey location.