GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	43	Dates:	10/21/2018-10/27/2018	Counted On	10/25/2018
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)=	9.26E-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	36	**********	*********	
2.	BACKGROUND 2	37	**********	*********	
3.	BACKGROUND 3	34	**********	*********	
4.	BACKGROUND 4	32	**********	*********	
5.	BACKGROUND 5	35	**********	*********	
6.	BACKGROUND 6	33	**********	*********	
7.	ELEVATOR ENTRANCE	36	M	M	
8.	FENCED GATE	28	M	M	
9.		28	M	M	
10.		29	M	M	
11.		35	M	M	
12.		28	M	M	
13.		28	M	M	
14.		32	M	M	
15.		34	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50059	**********	**********	
	100.93%	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 10/25/18	SIGN/DATE: [illegible] 10/25/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181025_1252
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181025_1252\20181025_1252.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	10/25/2018	12:53:15 PM	1	5.00	27	9	36	322.37	
1	10/25/2018	12:59:24 PM	2	5.00	29	8	37	282.82	
1	10/25/2018	1:05:39 PM	3	5.00	27	7	34	328.27	
1	10/25/2018	1:11:47 PM	4	5.00	24	8	32	301.43	
1	10/25/2018	1:18:01 PM	5	5.00	28	8	35	317.33	
1	10/25/2018	1:24:17 PM	6	5.00	28	5	33	197.60	
1	10/25/2018	1:30:35 PM	7	5.00	29	7	36	215.60	
1	10/25/2018	1:36:48 PM	8	5.00	23	5	28	212.17	
1	10/25/2018	1:43:05 PM	9	5.00	22	5	28	159.43	
1	10/25/2018	1:49:18 PM	10	5.00	23	6	29	218.32	
1	10/25/2018	1:55:34 PM	11	5.00	27	8	35	224.09	
1	10/25/2018	2:01:47 PM	12	5.00	21	6	28	220.94	

1	10/25/2018	2:08:05 PM	13	5.00	23	4	28	164.75
1	10/25/2018	2:14:20 PM	14	5.00	27	5	32	247.51
1	10/25/2018	2:20:32 PM	15	5.00	26	8	34	271.50
1	10/25/2018	2:26:10 PM	16	5.00	14322	35737	50059	1011.74

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			Gamma
Authorized User	**Date**	**Time**	**Swipe Instrument**	**Serial No.**	**Radiation Detected**
Xiaofeng Guo	10/25/18	1218	Quantasmart	073396	Beta/Gamma

Reactor Status (Check One) ON ☐ OFF ☑

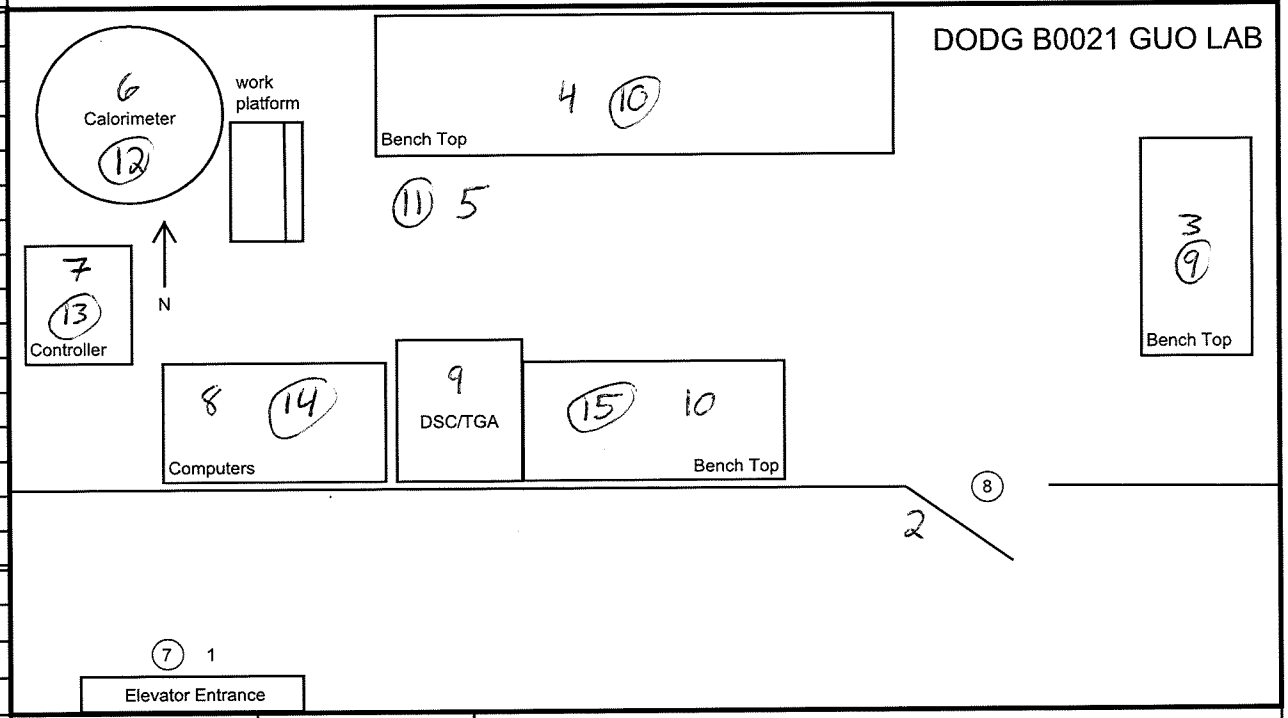
LSC Printout Date: 10/25/18

Survey #	Location	CPM
1	Elevator Entrance	<100
2	South Lab Floor	<100
3	East Bench Top	<100
4	North Bench Top	<100
5	North-West Lab Floor	<100
6	Calorimeter	<100
7	Controller	<100
8	Computers	<100
9	DSC/TGA	220
10	South Bench Top	<100

Swipe # and Locations

7	Elevator Entrance		
8	South Lab Floor		
9	East Bench Top		
10	North Bench Top		
11	North West Lab Floor		
12	Calorimeter		
13	Controller		
14	Computers		
15	South Bench Top		

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Surveyed By:	Date:	Notes
AG/SW	10/25/18	
Swiped By:	**Date:**	
RW	10/25/18	
Reviewed By:	**Date:**	
[signature]	10/25/2018	

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