GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	45	Dates:	11/04/2018-11/10/2018	Counted On	11/6/2018
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)=	8.94E-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	33	**********	*********	
2.	BACKGROUND 2	26	**********	*********	
3.	BACKGROUND 3	26	**********	*********	
4.	BACKGROUND 4	27	**********	*********	
5.	BACKGROUND 5	35	**********	*********	
6.	BACKGROUND 6	33	**********	*********	
7.	ELEVATOR ENTRANCE	27	M	M	
8.	FENCED GATE	35	M	M	
9.		32	M	M	
10.		29	M	M	
11.		31	M	M	
12.		34	M	M	
13.		29	M	M	
14.		32	M	M	
15.		33	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50077	**********	**********	
	100.97%	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 11/7/18	SIGN/DATE: [illegible] 11/8/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181106_1312
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181106_1312\20181106_1312.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	11/6/2018	1:13:49 PM	1	5.00	27	5	33	202.26	
1	11/6/2018	1:20:04 PM	2	5.00	23	4	26	245.64	
1	11/6/2018	1:26:20 PM	3	5.00	21	5	26	300.10	
1	11/6/2018	1:32:34 PM	4	5.00	22	5	27	258.06	
1	11/6/2018	1:38:42 PM	5	5.00	28	7	35	278.97	
1	11/6/2018	1:44:49 PM	6	5.00	27	6	33	235.32	
1	11/6/2018	1:51:04 PM	7	5.00	21	6	27	276.26	
1	11/6/2018	1:57:16 PM	8	5.00	25	11	35	238.97	
1	11/6/2018	2:03:31 PM	9	5.00	23	8	32	273.06	
1	11/6/2018	2:09:38 PM	10	5.00	23	6	29	236.59	
1	11/6/2018	2:15:52 PM	11	5.00	25	6	31	229.40	
1	11/6/2018	2:22:07 PM	12	5.00	26	8	34	253.33	

1	11/6/2018	2:28:25 PM	13	5.00	24	5	29	172.50
1	11/6/2018	2:34:37 PM	14	5.00	23	9	32	302.32
1	11/6/2018	2:40:44 PM	15	5.00	26	7	33	287.68
1	11/6/2018	2:46:24 PM	16	5.00	14451	35626	50077	1016.82

LABORATORY SURVEY

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

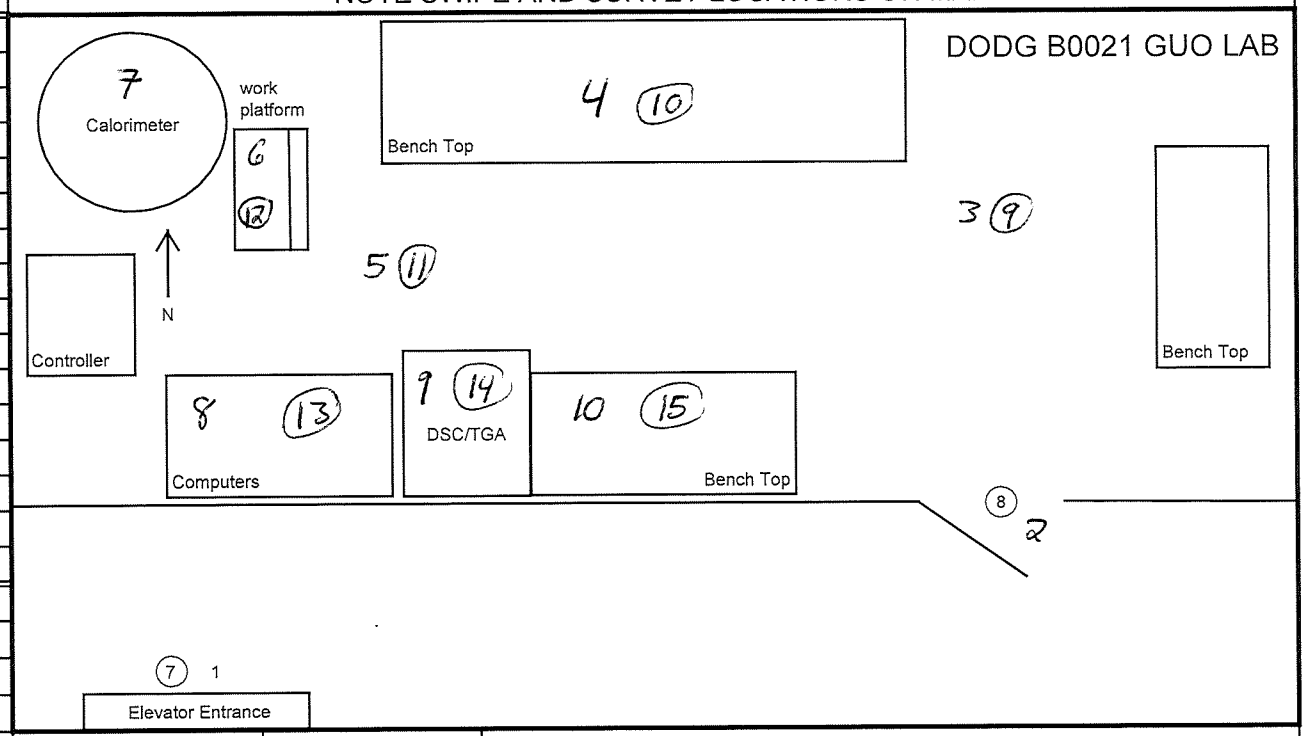
Building	Room	Lab Class	Survey Instrument	Serial No.	Radiation Detected
Dodgen Research Facility	B0021 - GUO	D	GM Detector Model 3	58680	Gamma
Authorized User	**Date**	**Time**	**Swipe Instrument**	**Serial No.**	**Radiation Detected**
Xiaofeng Guo	11/6/18	1229	Quantasmart	073396	Beta/Gamma

Reactor Status (Check One)
ON ☐ OFF ☑

LSC Printout Date

Survey #	Location	CPM
1	Elevator Entrance	<100
2	South ~~Floor~~ Gated Floor	<100
3	East Lab Floor	<100
4	North Bench Top	<100
5	West Lab Floor	<100
6	Work Platform	<100
7	Calorimeter	<100
8	Computers	<100
9	DSC/TGA	150
10	South Bench Top	<100

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



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		

Surveyed By: AG	Date: 11/6/18	Notes
Swiped By: AG	Date: 11/6/18	
Reviewed By: [signature]	Date: 11/8/2018	

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