GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	41	Dates:	10/7/2018-10/13/2018	Counted On	10/11/2018
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)=	9.05E-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	27	**********	*********	
3.	BACKGROUND 3	41	**********	*********	
4.	BACKGROUND 4	30	**********	*********	
5.	BACKGROUND 5	27	**********	*********	
6.	BACKGROUND 6	33	**********	*********	
7.	ELEVATOR ENTRANCE	43	1.59E-05	1.59E-07	
8.	FENCED GATE	42	1.45E-05	1.45E-07	
9.		28	M	M	
10.		28	M	M	
11.		29	M	M	
12.		32	M	M	
13.		28	M	M	
14.		28	M	M	
15.		40	1.17E-05	1.17E-07	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50133	**********	**********	
	101.08%	CALIBRATION CHECK OK?	YES	

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

SURVEY PREPARED BY: Maddison Heine	REVIEWED BY: Corey Hines
SIGN/DATE: Maddison Heine 10/12/18	SIGN/DATE: Corey Hines 10/12/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181011_1517
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181011_1517\20181011_1517.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	10/11/2018	3:18:21 PM	1	5.00	25	7	32	307.89	
1	10/11/2018	3:24:34 PM	2	5.00	23	4	27	183.37	
1	10/11/2018	3:30:50 PM	3	5.00	34	7	41	215.25	
1	10/11/2018	3:37:05 PM	4	5.00	25	5	30	237.09	
1	10/11/2018	3:43:18 PM	5	5.00	21	6	27	252.66	
1	10/11/2018	3:49:29 PM	6	5.00	27	6	33	218.41	
1	10/11/2018	3:55:44 PM	7	5.00	33	10	43	244.28	
1	10/11/2018	4:01:58 PM	8	5.00	30	12	42	298.32	
1	10/11/2018	4:08:14 PM	9	5.00	22	6	28	271.43	
1	10/11/2018	4:14:26 PM	10	5.00	23	5	28	283.56	
1	10/11/2018	4:20:37 PM	11	5.00	22	7	29	290.81	
1	10/11/2018	4:26:48 PM	12	5.00	24	7	32	311.89	

1	10/11/2018	4:33:09 PM	13	5.00	23	6	28	245.82
1	10/11/2018	4:39:23 PM	14	5.00	22	6	28	309.28
1	10/11/2018	4:45:31 PM	15	5.00	31	9	40	302.80
1	10/11/2018	4:51:11 PM	16	5.00	14482	35651	50133	1009.75

LABORATORY SURVEY

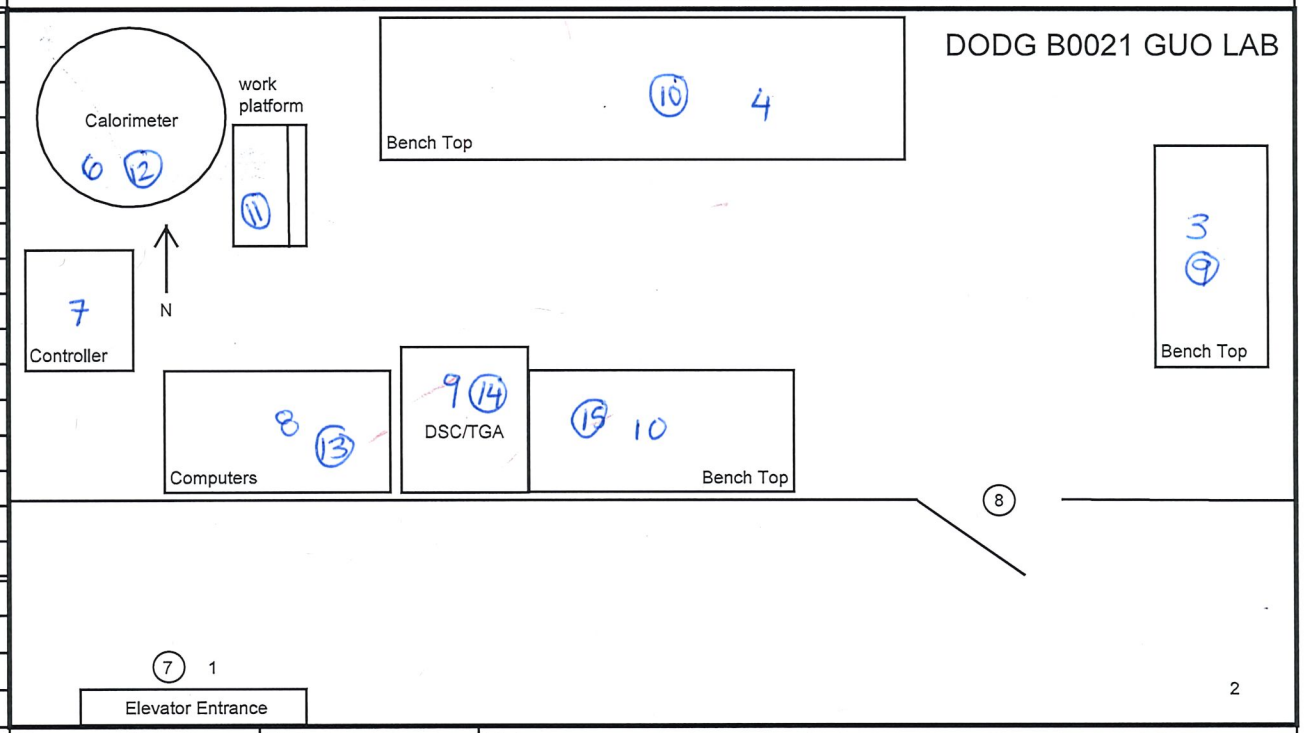
Radiation Safety Office
Washington State University
Pullman, WA 99164-1302
(509) 335 8916

Building	Room	Lab Class	Survey Instrument	Serial No.	Radiation Detected
Dodgen Research Facility	B0021 - GUO	D	Ludlum Model 3	58680	Alpha/Beta/Gamma
Authorized User: Xiaofeng Guo	Date: ~~10/10/18~~ 10/11/18 MH	Time: 1450	Swipe Instrument: Quantasmart	Serial No. 073396	Radiation Detected: Beta/Gamma
Reactor Status (Check One) ON ☐ OFF ☑					

LSC Printout Date: 10/11/2018

Survey #	Location	CPM
1	Elevator Entrance	<100
2	Fenced Gate	<100
3	Bench top E	<100
4	Bench top N	<100
5	Work Platform	<100
6	Calorimeter	<100
7	Controller	<100
8	Computers	<100
9	DSA/ TGA	130
10	Bench top S	<100

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Swipe #	Location		
7	Elevator Entrance		
8	Fenced Gated		
9	Bench top E		
10	Bench top N		
11	Work Platform		
12	Calorimeter		
13	Computers		
14	DSA/ TGA		
15	Bench top S		

Surveyed By:	Date:	Notes
MH	10/11/18	
Swiped By: MH	Date: 10/11/18	
Reviewed By: [signature]	Date: 10/12/2018	

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