GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	40	Dates:	09/30/2018-10/6/2018	Counted On	10/4/2018
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)=	8.82E-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	27	**********	*********	
2.	BACKGROUND 2	30	**********	*********	
3.	BACKGROUND 3	28	**********	*********	
4.	BACKGROUND 4	30	**********	*********	
5.	BACKGROUND 5	28	**********	*********	
6.	BACKGROUND 6	27	**********	*********	
7.	ELEVATOR ENTRANCE	32	M	M	
8.	FENCED GATE	31	M	M	
9.		33	M	M	
10.		27	M	M	
11.		31	M	M	
12.		55	3.73E-05	3.73E-07	
13.		30	M	M	
14.		32	M	M	
15.		29	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50417	**********	**********	
	101.66%	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: Alex Gomez / Corey Hines	REVIEWED BY: Corey Hines
SIGN/DATE: 10/4/2018	SIGN/DATE: 10/4/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181004_1439
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181004_1439\20181004_1439.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	10/4/2018	2:40:37 PM	1	5.00	20	7	27	353.36	
1	10/4/2018	2:46:52 PM	2	5.00	22	7	30	295.69	
1	10/4/2018	2:53:04 PM	3	5.00	22	6	28	246.39	
1	10/4/2018	2:59:19 PM	4	5.00	24	6	30	250.60	
1	10/4/2018	3:05:31 PM	5	5.00	21	7	28	308.77	
1	10/4/2018	3:11:50 PM	6	5.00	21	6	27	269.94	
1	10/4/2018	3:18:06 PM	7	5.00	27	6	32	182.71	
1	10/4/2018	3:24:21 PM	8	5.00	25	5	31	186.34	
1	10/4/2018	3:30:33 PM	9	5.00	26	8	33	239.55	
1	10/4/2018	3:36:50 PM	10	5.00	20	7	27	272.60	
1	10/4/2018	3:42:58 PM	11	5.00	25	5	31	218.75	
1	10/4/2018	3:49:12 PM	12	5.00	49	7	55	128.22	

1	10/4/2018	3:55:29 PM	13	5.00	24	6	30	263.61
1	10/4/2018	4:01:45 PM	14	5.00	26	5	32	176.98
1	10/4/2018	4:07:57 PM	15	5.00	22	6	29	277.03
1	10/4/2018	4:13:37 PM	16	5.00	14447	35970	50417	1010.33

LABORATORY SURVEY

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

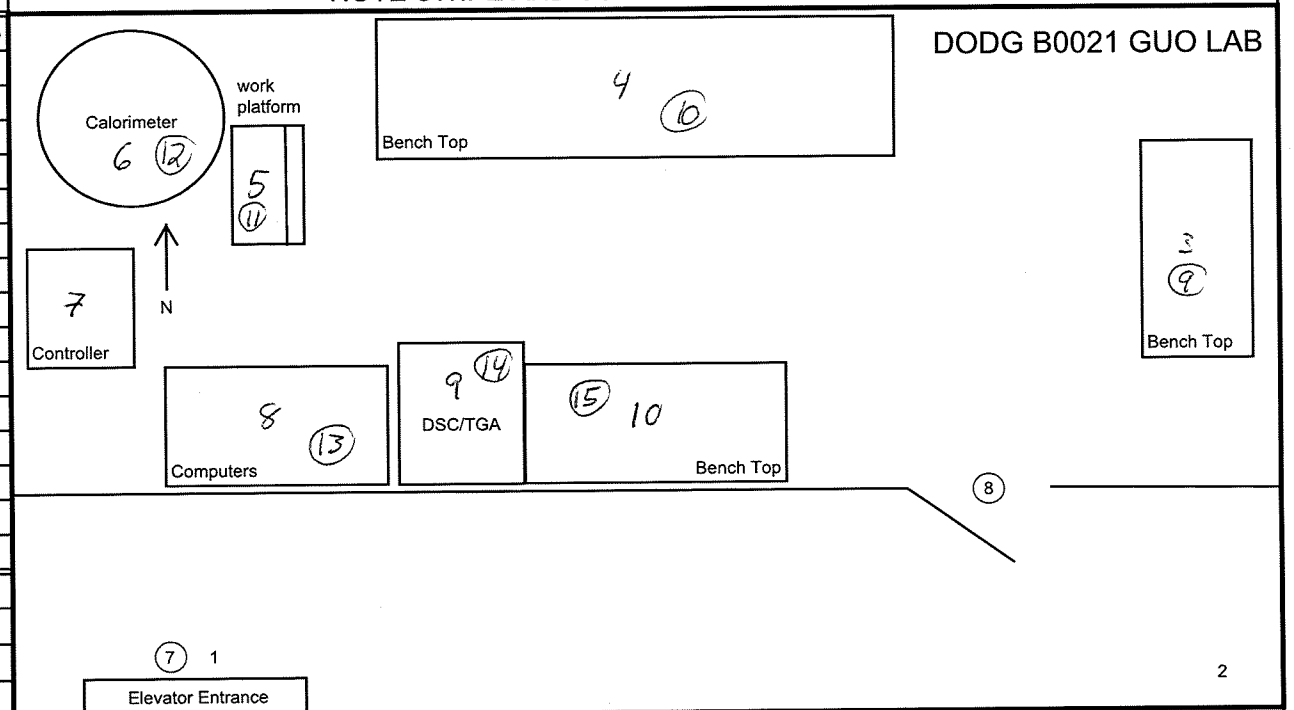
Building	Room	Lab Class	Survey Instrument	Serial No.	Radiation Detected
Dodgen Research Facility	B0021 - GUO	D	GM Detector 3	305168	Gamma
Authorized User	**Date**	**Time**	**Swipe Instrument**	**Serial No.**	**Radiation Detected**
Xiaofeng Guo	10/4/2018	1242	Quantasmart	073396	Beta/Gamma

Reactor Status (Check One)
ON ☐ OFF ☑

LSC Printout Date 10/4/2018

Survey #	Location	CPM
1	Elevator Entrance	~~<0.1~~ AG <100
2	Fenced Gate	~~<0.1~~ AG <100
3	Bench Top East	<100
4	Bench Top North	<100
5	Work platform	<100
6	Calorimeter	<100
7	Controller	<100
8	Computers	<100
9	DSC/TGA	<100
10	Bench Top South	<100

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Swipe # and Locations

7	Elevator Entrance		
8	Fenced Gate		
9	Bench Top East		
10	Bench Top North		
11	Work Platform		
12	Calorimeter		
13	Computers		
14	DSC/TGA		
15	Bench Top South		

Surveyed By: AG	Date: 10/4/2018	Notes
Swiped By: AG	Date: 10/4/2018	
Reviewed By: [signature]	Date: 10/4/2018	

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