

GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	18	Dates:	5/02/2021-5/08/2021	Counted On	5/3/2021
INSTRUMENT USED: Quantasart (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/cm ² = CPM:C * Control Factor / 100		
Limit of quantification (LOQ)=		8.84E-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	31	*****	*****	
3.	BACKGROUND 3	27	*****	*****	
4.	BACKGROUND 4	31	*****	*****	
5.	BACKGROUND 5	25	*****	*****	
6.	BACKGROUND 6	23	*****	*****	
7.	B021 ELEVATOR ENTRANCE	28	M	M	
8.	B021 FENCED GATE	34	M	M	
9.	B021 RAM SAFE	26	M	M	
10.	B021 EAST FLOOR	30	M	M	
11.	B021 NORTH BENCH TOP	26	M	M	
12.	B021 WEST LAB FLOOR	30	M	M	
13.	B021 WORK PLATFORM	23	M	M	
14.	B021 CALORIMETER	28	M	M	
15.	B021 COMPUTERS	28	M	M	
16.	B021 DSC/TGA	25	M	M	
17.	B021 SOUTH BENCH TOP	32	M	M	
18.	121 DOORWAY	29	M	M	
19.	121 GLOVE BOX- FLOOR	23	M	M	
20.	121 GLOVE BOX	28	M	M	
21.	121 WEST BENCH TOP	24	M	M	
22.	121 CENTER OF LAB	27	M	M	
23.	122 EAST BENCH TOP	25	M	M	
³⁶ Cl SOURCE 09/14/1971		50072		*****	*****
		100.96%	CALIBRATION CHECK OK?		YES
Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable contamination limit of 1 x 10 ⁻⁶ uCi/cm ² .					
SURVEY PREPARED BY: R. Bergman			REVIEWED BY: M. Heine		
SIGN/DATE: 			SIGN/DATE:  5/11/2021		

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210503_0947

Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210503_0947\20210503_0947.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	5/3/2021	9:48:31 AM	1	5.00	30	6	36	172.89	
1	5/3/2021	9:54:57 AM	2	5.00	26	5	31	199.68	
1	5/3/2021	10:01:20 AM	3	5.00	23	4	27	261.43	
1	5/3/2021	10:07:39 AM	4	5.00	24	6	31	272.85	
1	5/3/2021	10:14:02 AM	5	5.00	21	4	25	267.50	
1	5/3/2021	10:20:25 AM	6	5.00	19	4	23	386.15	
1	5/3/2021	10:26:49 AM	7	5.00	24	4	28	318.37	
1	5/3/2021	10:33:09 AM	8	5.00	30	4	34	207.51	
1	5/3/2021	10:39:34 AM	9	5.00	20	6	26	237.84	
1	5/3/2021	10:46:02 AM	10	5.00	25	5	30	171.88	
1	5/3/2021	10:52:16 AM	11	5.00	20	5	26	329.75	
1	5/3/2021	10:58:34 AM	12	5.00	24	6	30	223.97	

Protocol# 1 - Reactor Weekly.lsa

User: CSE

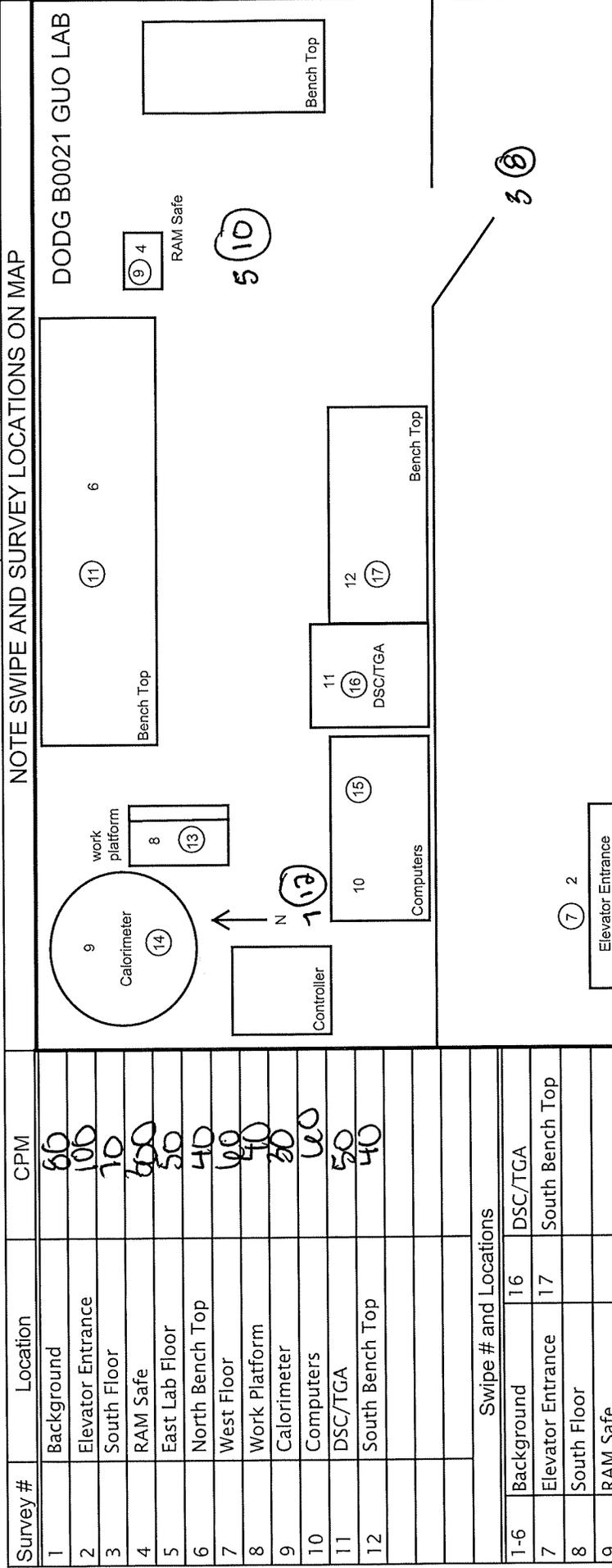
1	5/3/2021	11:04:55 AM	13	5.00	18	6	23	407.56
1	5/3/2021	11:11:17 AM	14	5.00	24	4	28	225.47
1	5/3/2021	11:17:39 AM	15	5.00	24	5	28	264.11
1	5/3/2021	11:24:04 AM	16	5.00	20	5	25	313.47
1	5/3/2021	11:30:32 AM	17	5.00	26	6	32	250.91
1	5/3/2021	11:36:58 AM	18	5.00	24	5	29	287.42
1	5/3/2021	11:43:21 AM	19	5.00	22	2	23	177.35
1	5/3/2021	11:49:42 AM	20	5.00	24	4	28	254.46
1	5/3/2021	11:56:03 AM	21	5.00	20	4	24	289.33
1	5/3/2021	12:02:21 PM	22	5.00	22	5	27	308.94
1	5/3/2021	12:08:43 PM	23	5.00	21	4	25	262.19
1	5/3/2021	12:14:24 PM	24	5.00	14568	35504	50072	1011.62

LABORATORY SURVEY

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

Building Dodgen Research Facility	Room B0021 - GUO	Lab Class D	Survey Instrument GM Detector Model 3	Serial No. 58680	Radiation Detected Gamma
Authorized User Xiaofeng Guo	Date 05/03/2021	Time 08:50	Swipe Instrument Quantasmat	Serial No. 073396	Radiation Detected Beta/Gamma
Reactor Status (Check One) ON <input type="checkbox"/> OFF <input checked="" type="checkbox"/>					

LSC Printout Date 5/03/2021



Survey #	Location	CPM	Swipe # and Locations	Notes
1	Background	60		
2	Elevator Entrance	100		
3	South Floor	10		
4	RAM Safe	60		
5	East Lab Floor	50		
6	North Bench Top	40		
7	West Floor	60		
8	Work Platform	40		
9	Calorimeter	30		
10	Computers	60		
11	DSC/TGA	50		
12	South Bench Top	40		
1-6	Background	16	DSC/TGA	
7	Elevator Entrance	17	South Bench Top	
8	South Floor			
9	RAM Safe			
10	East Lab Floor			
11	North Bench Top			
12	West Lab Floor			
13	Work Platform			
14	Calorimeter			
15	Computers			

Surveyed By: RB	Date: 05/03/2021
Swiped By: RB	Date: 05/03/2021
Reviewed By: <i>[Signature]</i>	Date: 5/11/2021

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

