

GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	26	Dates:	6/27/2021-7/3/2021	Counted On	6/28/2021
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/cm2 = CPM:C * Control Factor / 100		
Limit of quantification (LOQ)=		8.61E-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	28	*****	*****	
2.	BACKGROUND 2	26	*****	*****	
3.	BACKGROUND 3	25	*****	*****	
4.	BACKGROUND 4	27	*****	*****	
5.	BACKGROUND 5	26	*****	*****	
6.	BACKGROUND 6	23	*****	*****	
7.	B021 ELEVATOR ENTRANCE	28	M	M	
8.	B021 FENCED GATE	25	M	M	
9.	B021 RAM SAFE	23	M	M	
10.	B021 EAST FLOOR	27	M	M	
11.	B021 NORTH BENCH TOP	26	M	M	
12.	B021 WEST LAB FLOOR	30	M	M	
13.	B021 WORK PLATFORM	31	M	M	
14.	B021 CALORIMETER	30	M	M	
15.	B021 COMPUTERS	31	M	M	
16.	B021 DSC/TGA	27	M	M	
17.	B021 SOUTH BENCH TOP	31	M	M	
18.	121 DOORWAY	27	M	M	
19.	121 GLOVE BOX- FLOOR	26	M	M	
20.	121 GLOVE BOX	36	1.42E-05	1.42E-07	
21.	121 WEST BENCH TOP	24	M	M	
22.	121 CENTER OF LAB	37	1.56E-05	1.56E-07	
23.	122 EAST BENCH TOP	25	M	M	
³⁶ CI SOURCE 09/14/1971		50162		*****	*****
		101.14%	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:  06/28/21			SIGN/DATE:  7/6/21		

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210628_0954

Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210628_0954\20210628_0954.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	6/28/2021	9:56:09 AM	1		5.00	26	2	28	134.06	
1	6/28/2021	10:02:33 AM	2		5.00	21	4	26	175.04	
1	6/28/2021	10:08:51 AM	3		5.00	20	6	25	301.20	
1	6/28/2021	10:15:18 AM	4		5.00	24	3	27	200.00	
1	6/28/2021	10:21:45 AM	5		5.00	21	5	26	228.68	
1	6/28/2021	10:28:10 AM	6		5.00	20	3	23	221.74	
1	6/28/2021	10:34:36 AM	7		5.00	22	6	28	231.22	
1	6/28/2021	10:40:59 AM	8		5.00	21	4	25	294.08	
1	6/28/2021	10:47:18 AM	9		5.00	19	4	23	212.49	
1	6/28/2021	10:53:40 AM	10		5.00	23	4	27	194.43	
1	6/28/2021	11:00:03 AM	11		5.00	20	5	26	254.63	
1	6/28/2021	11:06:28 AM	12		5.00	24	6	30	245.36	

1	6/28/2021	11:13:00 AM	13	5.00	24	7	31	297.58
1	6/28/2021	11:19:23 AM	14	5.00	26	4	30	217.14
1	6/28/2021	11:25:37 AM	15	5.00	25	6	31	297.22
1	6/28/2021	11:32:01 AM	16	5.00	23	4	27	196.09
1	6/28/2021	11:38:23 AM	17	5.00	27	4	31	221.01
1	6/28/2021	11:44:50 AM	18	5.00	22	5	27	232.23
1	6/28/2021	11:51:10 AM	19	5.00	21	5	26	217.53
1	6/28/2021	11:57:30 AM	20	5.00	32	4	36	203.91
1	6/28/2021	12:03:55 PM	21	5.00	21	3	24	172.32
1	6/28/2021	12:10:18 PM	22	5.00	31	6	37	198.08
1	6/28/2021	12:16:41 PM	23	5.00	20	5	25	296.59
1	6/28/2021	12:22:22 PM	24	5.00	14347	35815	50162	1023.26

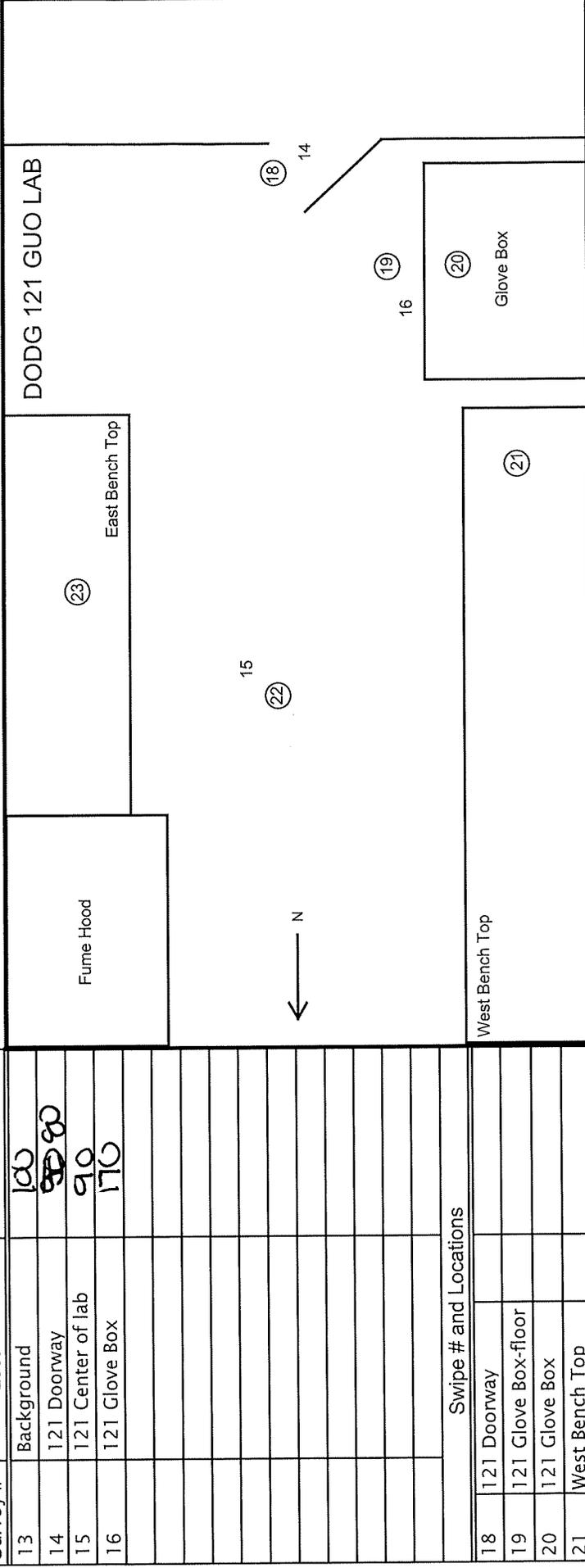
LABORATORY SURVEY

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

Building Dodgen Research Facility	Room 121-GUO	Lab Class D	Survey Instrument GM Detector Model 3	Serial No. 58680	Radiation Detected Gamma
Authorized User Xiaofeng Guo	Date 06/28/21	Time 0937	Swipe Instrument Quantasmat	Serial No. 073396	Radiation Detected Beta/Gamma
Reactor Status (Check One) <input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/>					

LSC Printout Date 06/28/21

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Survey #	Location	CPM	Surveyed By:	Date:	Notes
13	Background	100	RB	06/28/21	
14	121 Doorway	90	RB	06/28/21	
15	121 Center of lab	90	RB	06/28/21	
16	121 Glove Box	170	RB	06/28/21	
18	121 Doorway				
19	121 Glove Box-floor				
20	121 Glove Box				
21	West Bench Top				
22	121 Center of lab				
23	East Bench Top				
			Reviewed By:	Date:	
				7/6/21	

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