**Memorandum to:** David M. Anderson

From: Institutional Animal Care and Use Committee

**Subject:** Semiannual Report of the Program Review and Facility Inspection

**Date:** July 30,2020

This report summarizes results of the IACUC's most recent program review and facility inspection, as required by the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (<u>Policy</u>), Section <u>IV.B.1.-3.</u>, the *Guide for the Care and Use of Laboratory Animals* (<u>Guide</u>), and the Animal Welfare Act (<u>AWA</u>) regulations, as applicable. Submission of semiannual reports to the Institutional Official is a condition of this institution's Animal Welfare Assurance with the NIH Office of Laboratory Animal Welfare (OLAW).

# Since the last review, the following changes have occurred in the institution's program for animal care and use (PHS Policy IV.A.1.a.-i.):

In January we reviewed our first cephalopod protocol after agreeing to start oversight in September of 2019. The committee began meeting remotely via Zoom in April 2020. In 2019, zebrafish began occupying the aquatics area of new Life Sciences Building vivarium and in June 2020, the vivarium was approved for use by non-aquatics species.

### I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the Guide, and the AWA

All animal care and use at the University of Washington adheres to PHS Policy, the Guide, and the AWA, as described in our Assurance. Within that framework, the IACUC has approved the following departures from PHS Policy, the AWA and the Guide:

- 58 protocols with prolonged restraint (bats, birds, fish, mice, pigs, non-human primates, wild mammals)
- 8 protocols with housing at non-standard temperatures (4 mice, 2 mice and rats, 2 zebrafish)

In February 2020 the IACUC approved the following general departure:

- 1 general cage change frequency variance for singly housed gerbils

In May 2020 the IACUC approved the following general departure:

- 1 general L-shaped housing variance for NHPs to provide flexibility in configurations of combined cages
The following IACUC approved general departures remain in place

- 1 general cage height variance for infant non-human primates
- 1 general cage floor-area variance, with added vertical space, for juvenile non-human primates
- 1 general exception for placing NHP feed on compound floors

Details are included in Appendix C.

While not departures, the IACUC has also approved the following exceptions to its policies that implement PHS Policy, the AWA and the Guide:

- 12 protocols with cage size variances (6 for mice, 2 chicks, 4 rats)
- 10 protocols with wire bottom cages (8 mice, 2 rats)
- 49 protocols with weaning variances (47 mice, 2 rats)
- 2 protocols with a non-AVMA endorsed euthanasia method (1 small birds, 1 frogs/salamanders)
- 38 protocols with multiple major surgeries (6 species)
- 14 protocols with other policy variances (10 mice, 2 rats, 2 mice and rats)

Details of these can be reviewed via reports in HoverBoard.

### II. Deficiencies in the Institution's Animal Care and Use Program

Animal Care and Use Program Review Date(s): January through June 2020

- [] A. There were no deficiencies in the program during this reporting period.
- [X] B. The following deficiencies have been identified:

Over the past six months, 10 adverse events or non-compliances were reported to the IACUC and, as required, to OLAW, AAALAC, or USDA. See Appendix A for details.

Teams of IACUC members recently reviewed all elements of the University's animal care and use program, guided by the OLAW-provided checklist. They found the program to be strong, and identified no deficiencies. Specific comments and suggestions for improvement are detailed in <u>Appendix D</u>. The IACUC and OAW will pursue the suggestions in the coming year.

# III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s): January through June 2020

- [] A. There were no deficiencies in the animal facility during this reporting period.
- [X] B. The following deficiencies have been identified

Over the past six months 180 deficiencies were identified during IACUC facility inspections or self-reported. None were considered significant. Counts by type are shown below.

Туре	Minor	Significant	Туре	Minor	Significant
Facility and Furnishings	36	0	Personnel Precautions	15	0
Sanitation	32	0	Feed	8	0
Husbandry	21	0	Environment	4	0

Equipment	20	0	Signage and Information	2	0
Ечагритент	20	- 0	Signage and information		U
Drugs	19	0	Research Chemicals	2	0
Supplies	19	0	Animal Health	1	0

161 have been resolved while 15 are pending corrective action. See <u>Appendix B</u> for deficiency details.

### **IV.** Minority Views

Select A or B:

[X ] A. No minority views were submitted or expressed.

B. The following minority views were expressed:

V.	Status	of AA	ALAC	Accre	ditation

Reference Assurance: #000523

Most Recent AAALAC Site Visit: 05/31/2019 through 06/07/2019

Most Recent Full Accreditation issued: 11/01/2019

# VI. Signatures (via signed and dated note of concurrence – see attached images)

IACUC Members	concurrence	date
A.B. (Andrew)		
A.W. (Aaron)	Concur	7/28/20
C.M. (Carolyn)	Concur	7/23/20
D.M. (Dave)	Concur	7/28/20
F.R.R. (Ric)	Concur	7/20/20
G.S. (Garret)	Concur	7/28/20
J.A. (Jacqui)	Concur	7/29/20
J.M. (Jeanot)	Concur	7/28/20
J.P.V.H. (Preston)	Concur	7/27/20
J.S. (Jane)	Concur	7/22/20

K.G (Kathryn)	Concur	7/21/20
K.M.G. (Ken)	Concur	7/20/20
K.S. (Kim)	Concur	7/20/20
M.B. (Michelle)	Concur	7/28/20
M.K. (Michael)	Concur	7/24/20
M.L. (Molly)	Concur	7/28/20
S.L. (Steve)	Concur	7/21/20
S.R.H. (Scott)	Concur	7/20/20

# Appendix A Deficiencies in the Institution's Animal Care and Use Program

	Severity	Repeat?	Location	Deficiency and Corrective Action Plan	State	Date Complete
				Non-compliance involving second surgery on a		
				gerbil. Letter of counsel requested a reply that		
				indicates what will be done to ensure future		
				compliance. Reply received and accepted by		
	Minor	no	vivarium	IACUC.	Complete	2/20/2020
ľ				Mouse mortality due to no access to water from		
				Hydropac. Continue to monitor for any chewed		
	Significant	no	vivarium	lixits.	Complete	1/22/2020
	J		2.1.4.1.			_,,
				Altercation between 2 male primates due to		
				cage door failure. Temp fix in place. Unit will		
				work long term with manufacturer to make the		
	Significant	no	vivarium	transfer doors impregnable while readily usable.	Complete	3/20/2020
				Unexpected mortality associated with an		
				experimental procedure. Letter of		
				acknowledgement sent to PI requesting reply re:		
				maintenance schedule for the machine, testing		
				after a period of no use, and importance of self-		
				reporting adverse events. PI replied and		
				response was reviewed by IACUC. No further		
	Significant	no	vivarium	action requested	Complete	3/20/2020
				Mortality due to no access to water. Sent letter		
				of acknowledgement to PI requesting reply		
				about retraining, toggling. PI replied was		
				reviewed by IACUC with no further action		
	Significant	no	vivarium	requested.	Complete	3/20/2020
ľ				Mortality in rats. Letter of counsel sent		
				requesting a reply indicating how proper		
				monitoring will be ensured and appropriate		
				concentration of parasites assessed prior to		
				injection. PI reply was reviewed by IACUC. No		
	Significant	no	vivarium	further action requested.	Complete	5/26/2020
	Jigiiiiicaiit	110	vivarialli	Tarther action requested.	complete	3/20/2020
						Objective III Bi
				Faces leading to be interested by the contract of the contract		Obtained by Rise
				Escape leading to injuries. The male initially has	Retrieved	from Animal Resea
				been kept separate/closed from his social		
				partner to limit his ability of breaking the locks		
				holding the cages together and escaping.		
				Additional locks and connectors have been		
	01 15			added to caging and male is back with social		<b>-</b> /- /
	Significant	no	vivarium	partner.	Complete	7/7/2020
				Mortality in BSL3 facility due to improper		
				docking of cage in rack. Facility staff retrained		
				and new procedure in place to double check		_
	Significant	no	vivarium	docking of cages in the rack.	Complete	5/26/2020

Significant	no	vivarium	Animal without access to water. Corrective action pending resolution at July 2020 IACUC meeting.		
Significant	no	vivarium	Rat mortality related to anesthesia. Sent the PI a letter of acknowledgement of the self-reporting of the incident.	Complete	5/26/2020

# Appendix B Deficiencies in the Institution's Animal Facility

				Date	
Coverity	Repeat?	Location	Consour Description	Correction Due	Date Complete
Severity	Kepeatr	WaNPRC:	Concern Description AB Colony: Feed Storage 2 Humidity	Due	Date Complete
Minor	no	Arizona	not being monitored/recorded.	7/1/2020	7/1/2020
IVIIIIOI	no	WaNPRC:		7/1/2020	7/1/2020
Minor	20		Feed Storage 1: Humidity not being monitored/recorded.	7/1/2020	7/1/2020
Minor	no	Arizona	·	7/1/2020	7/1/2020
		WaNPRC:	AB Colony: Light casings in animal		
Minor	no		enclosures have debris in the,	7/21/2020	
Minor	no	Arizona	suggest cleaning.	7/31/2020	
N 4:		WaNPRC:	AB Colony: Exhaust vents have debris	7/21/2020	
Minor	no	Arizona	in them, suggest cleaning.	7/31/2020	
			418: No biological indicator (BI)		
			testing/results have been noted in		
		C U.S.	the autoclave log since September		
		Guthrie	2019 – Autoclave is currently down,		
		Laboratory	but monthly BI should be done when	7/24/2020	
Minor	no	Spaces	the autoclave is operational.	7/31/2020	
			1047 (Instrument Prep): Hole in wall		
			(approx. ¼ inch in diameter). Hole		
		WaNPRC: I-	should be patched and paint chips on		
		wing	door jamb. WaNPRC to submit work	- /- / /	
Minor	no	Vivarium	order.	7/31/2020	
		WaNPRC: I-	1073 (Corridor): Main door badly		
		wing	damaged on back/hinge side.	- 1 1	
Minor	no	Vivarium	WaNPRC to submit work order.	7/31/2020	
		WaNPRC: I-	1363: One light is out and needs to be		
		wing	replaced. WaNPRC to submit work		Obtained by Ri
Minor	no	Vivarium	order.	7/31/2020	tui accad for ma Amino al Da
		WaNPRC: I-	1089 (Corridor): Damaged hall door	Ke	etrieved from Animal Re
		wing	and needs repair. WaNPRC to submit		
Minor	no	Vivarium	work order.	7/31/2020	
		WaNPRC: I-	J025B: Bottom of door jamb is		
		wing	damaged and dry wall is exposed.		
Minor	no	Vivarium	WaNPRC to submit work order.	7/31/2020	
			I040H: Multiple paint chips on door		
		WaNPRC: I-	jamb in various locations (sx		
		wing	corridor). WaNPRC to submit work		
Minor	no	Vivarium	order.	7/31/2020	

Nainer		WaNPRC: I- wing	I061 (Isolation/suite entry): Main door damaged on edge. WaNPRC to	7/24/2020	
Minor	no	Vivarium	submit work order.	7/31/2020	
		WaNPRC: I-	I563: Chipped floor inside the housing room door, in front of the		
		wing	first rack of cages. WaNPRC to		
Minor	no	Vivarium	submit work order to repair.	7/31/2020	
14111101	110	VIVAIIAIII	4th floor: Door frame around door	773172020	
		WaNPRC: I-	from flex labs into vivarium needs		
		wing	painting. WaNPRC to submit work		
Minor	no	Vivarium	order.	7/31/2020	
		WaNPRC: I-	I355: Multiple dings on the wall		
		wing	opposite the refrigerator. Group to		
Minor	no	Vivarium	submit work order.	7/31/2020	
		WaNPRC: I-			
		wing	1355: Install mop hanger. Group to		
Minor	no	Vivarium	submit work order.	7/31/2020	
			Chairs in room have cracks in		
			surface, exposing interior foam.		
		SLU 3.1:	Chairs must be replaced with ones		
		Laboratory	that are sound, sealed and		
Minor	no	Spaces	sanitizable.	6/30/2020	6/23/2020
			Remove all cardboard and cardboard		
			boxes from area where animals will		
			be located, especially the cardboard		
			around the perimeter of the air table		
			(replace with sanitizable material		
		SLU 3.1:	such as Plexiglas or plastic sheeting).		
. 4.		Laboratory	As much as possible, minimize	6/20/2020	6/22/2020
Minor	no	Spaces	cardboard in all parts of the room.	6/30/2020	6/23/2020
			K024E (Stuber): Vials of diluted		
			carprofen and lidocaine that either		
			had no formulation (dilution) date or		
			had no formulation (dilution) date or had a date that was greater than 30		
			had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group		
		HSR: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the		
Minor	no	HSB: K-wing Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration	1/8/2020	1/8/2020
Minor	no	HSB: K-wing Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.	1/8/2020	1/8/2020 <b>Obtained by R</b>
Minor	no	Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with		Obtained by R
		Vivarium  HSB: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during	Retriev	Obtained by R  ved from Animal Re
Minor Minor	no	Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.		Obtained by R
		Vivarium  HSB: K-wing  Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of	Retriev	Obtained by R  ved from Animal Re
Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab	Retriev 1/8/2020	Obtained by R ved from Animal Ro 1/8/2020
Minor		Vivarium  HSB: K-wing  Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab member during visit.	Retriev	Obtained by R  ved from Animal Re
Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab	Retriev 1/8/2020	Obtained by R ved from Animal Ro 1/8/2020
Minor Minor Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab member during visit.  K018C (Phillips): Old mouse cage	Retriev 1/8/2020	Obtained by R ved from Animal Ro 1/8/2020
Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab member during visit.  K018C (Phillips): Old mouse cage with feed in it. No label or expiration	Retriev 1/8/2020	Obtained by R ved from Animal Ro 1/8/2020
Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab member during visit.  K018C (Phillips): Old mouse cage with feed in it. No label or expiration on the cage. Probably being used by	Retriev 1/8/2020	Obtained by R ved from Animal Ro 1/8/2020
Minor Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing Vivarium  HSB: K-wing Vivarium	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab member during visit.  K018C (Phillips): Old mouse cage with feed in it. No label or expiration on the cage. Probably being used by Phillips lab. Removed by Facility Supervisor during visit.	Retriev 1/8/2020 1/8/2020	Obtained by R yed from Animal Ro 1/8/2020 1/8/2020
Minor Minor	no	Vivarium  HSB: K-wing Vivarium  HSB: K-wing Vivarium  HSB: K-wing	had no formulation (dilution) date or had a date that was greater than 30 days ago. Vials removed by lab group and they were informed of the IACUC policy of a 30-day expiration date for drug formulations.  K015A: Gas tank not secured with 2nd chain restraint. Corrected during visit.  K024E (Stuber): Several packs of expired suture. Removed by lab member during visit.  K018C (Phillips): Old mouse cage with feed in it. No label or expiration on the cage. Probably being used by Phillips lab. Removed by Facility	Retriev 1/8/2020 1/8/2020	Obtained by R yed from Animal Ro 1/8/2020 1/8/2020

			placed in bag and returned to lock box during visit.		
			N057 (GNAC): Glass bottle filled with		
			liquid that looked like Clidox was not		
			labeled. Host said it was Clidox waste		
		ARCF (Animal	from sanitizing gloves to the flexible		
		Research &	film isolator. This was removed for		
Minor	no	Care Facility)	disposal at the time of visit.	1/10/2020	1/10/2020
		ARCF (Animal	N057 (GNAC): Bottle of expired		
		Research &	Clidox (exp 10/22/19) removed at		
Minor	no	Care Facility)	time of visit.	1/10/2020	1/10/2020
		HSB: K-wing	K007EZ: A couple of cages of singly housed rats without 2 enrichment items in the cage. No protocol exception approved for these rats.  AT needs to add extra enrichment	2 (22 (222	1/10/2020
Minor	no	Vivarium	when note single housing.	2/28/2020	1/10/2020
			K012F: Floor could use a sweeping.		
		HSB: K-wing	Please develop an SOP for cleaning	- 1 12000	: 11= 10000
Minor	no	Vivarium	on a regular basis.	2/28/2020	1/15/2020
		5111 D 111000	348: Expired bupivacaine, labeled as	. / . = /2000	1/17/2020
Minor	no	SLU: Brotman	expired during visit.	1/17/2020	1/17/2020
·	_	SLU: Aquatics	P125: Expired diazepam, labeled as	117/2020	4 /4 7 /2020
Minor	no	Facility	expired during visit.	1/17/2020	1/17/2020
		HSB: K-wing	K018C: Expired Clidox. Please	0/00/0000	1 /20 /2020
Minor	no	Vivarium	dispose of and replace.	2/28/2020	1/20/2020
• <b>4•</b> ~ ~		HSB: K-wing	K012E: Expired Clidox. Please dispose	2/20/2020	4 /20 /2020
Minor	no	Vivarium	of and replace.	2/28/2020	1/20/2020
		LICE: K wing	K015C: Recapped needles, no		
Minor	20	HSB: K-wing	recapper in room. Please remind	2/20/2020	1/20/2020
Minor	no	Vivarium	research not to recap needles.	2/28/2020	1/20/2020
		Foege Laboratory	N415A: Expired dexamethasone, corrected during visit (moved to area		
Minor	no	Spaces	set aside for expired drugs).	1/21/2020	1/21/2020
IVIIIIO	NO	Spaces	Guthrie Hallway (near 053): Eyewash is not being maintained and water pressure seems low. It is not clear if parts need to be replaced or if a good cleaning could remove the	1/21/2020	Obtained by R
			crusty buildup, or what needs to be	Retriev	ved from Animal R
		Cuthria	done to ensure sufficient pressure. Once the eyewash is in good shape, a testing and logging SOP will need to		
		Guthrie	be devised. Someone from OAW will		
Minor	70	Laboratory	probably need to work with Gire and	2/20/2020	1/22/2020
Minor	no	Spaces	Guthrie on this.  K024E (Bruchas): Isoflurane vaporizer	2/28/2020	1/22/2020
			sticker indicated last service 7/18/18.		
		HSB: K-wing	Please label "Do Not Use Until		
Minor	no	Vivarium	Calibrated." Please verify that	2/28/2020	1/23/2020
IVIIIIOI		VIVALIAIII	Calibrated. Thease verify that	2/20/2020	1/23/2020

			calibration did occur last year or get it calibrated.		
Minor	no	HSB: 6th Floor Vivarium	C604A: A research group is currently moving equipment into this room from Harborview; room will need some tidying before animal use.	2/21/2020	1/24/2020
Minor	no	HSB: K-wing Vivarium	K012E: Hood has some reddish stains beneath the work surface, near front of hood, needs cleaning.	2/28/2020	1/24/2020
WIIIO	110	Guthrie Laboratory	051: Please ensure that the animal care log for the octopus is stored inside of 051 proper rather than outside of the room's door so that data is not inappropriately altered (it	2/26/2020	1/24/2020
Minor	no	Spaces HSB: K-wing	had been kept in the main lab, 054).	2/28/2020	1/27/2020
Minor	no	Vivarium	K015M: No date on Virkon S spray bottle.	2/28/2020	1/27/2020
		HSB: K-wing	K015M: Dirty behavioral equipment left in sink, along with a used syringe and weigh boats. It is possible that this was left earlier today by a researcher who is coming back to		
Minor	no	Vivarium	clean up, but no way to know this.	2/28/2020	1/27/2020
		HSB: 6th Floor	C606: Daily room care log not updated since 10/7/19. When room is not in use, please make note of this on the daily room care log, so site visitors will know not to look for		
Minor	no	Vivarium	entries.	2/21/2020	1/28/2020
			446: Diluted drugs were not labeled with an expiration date. All drugs to be used in animals must be labeled with an expiration date. Typically, unless there is data to support a longer shelf life, diluted drugs should be considered good for one month		
Minor	no	SLU: Brotman	after dilution.	2/21/2020	Obtained by Rise
			447: Compressed gas cylinder had only one chain around the top. An additional chain is needed around the bottom to ensure that the		red from Animal Rese
Minor	no	SLU: Brotman	cylinder cannot slip out or tip over.	2/21/2020	1/28/2020
Minor	no	Guthrie Laboratory Spaces	054: Move books on shelf over tank to shelves away from tanks or add a taller lip to shelf, to keep animals safe if there is an earthquake.	2/28/2020	1/31/2020
		CHDD	056B, 056D: Ceiling tiles are torn and need to be replaced. Group to		
Minor	no	Vivarium	submit work order.	4/30/2020	2/3/2020

D.4.		HSB: K-wing	K024F (Stuber, Bruchas): No expiration date on 1% Virkon bottle.	2/20/2020	2/2/2020
Minor	no	Vivarium	Please label.  K024E (Stuber, Bruchas): No sterilization date on items in pouches	2/28/2020	2/3/2020
Minor	no	HSB: K-wing Vivarium	that had been sterilized. Need to add sterilization date on the pouches.	2/28/2020	2/3/2020
		Foege Laboratory	N433A: Ceiling tiles out of place.	· ·	
Minor	no	Spaces	Group to submit work order.	4/30/2020	2/4/2020
		SLU 2 Laboratory	N115: Lots of expired sutures, moved		
Minor	no	Spaces	to 'expired' bag during visit. 051: Label shelves where	2/4/2020	2/4/2020
		Guthrie Laboratory	cockroaches are housed and where cockroach supplies are kept, to make it clear that these items are not		
Minor	no	Spaces SLU 3.2:	related to octopus care.	2/28/2020	2/5/2020
Minor	no	Laboratory Spaces	F775: Expired betadine, catheter introducers and tissue adhesive – disposed of during the site visit.	2/5/2020	2/5/2020
- IVIIIIOI	110	SLU 3.2: Laboratory	F787: Expired surgical gloves –	2,3,2020	2,3,2023
Minor	no	Spaces	disposed of during the site visit.	2/5/2020	2/5/2020
Minor	no	HSB: 6th Floor	D606 (Juul): One of the chairs in room has 3 cracks in the plastic cover. Please find an acceptable way to patch these cracks or remove	2/6/2020	2/6/2020
Minor	no	Vivarium	from room. C608 (Palmiter): Cubicle 3/Rack 4	3/6/2020	2/6/2020
		HSB: 6th Floor	change date printed on log says 28 days, but this has been crossed out and replaced (in pen) with 'monthly'. Changes are being done on same date each month, not every 28 days. Changes must be done on the schedule that is in the approved		
Minor	no	Vivarium	protocol.	3/6/2020	2/6/2020 Obtained by Ris
		HSB: 6th Floor	C609 (Repeat): Flashing light in ceiling, but inspectors were told a work order had already been	Retriev	ed from Animal Res
Minor	yes	Vivarium	submitted.	4/30/2020	2/6/2020
Minor	no	Foege Laboratory Spaces	N423D: Eyewash log last filled out 11/15/19. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	2/21/2020	2/6/2020
		Spaces	ast se recorded in a log.	2, 22, 2020	2,0,2020

Minor	no	HSB: 6th Floor Vivarium	C618 (Palmiter): 70% EtOH spray bottle dates were marked with ink that has run and become illegible. Use an ethanol-resistant ink pen to write key dates on containers.	3/6/2020	2/7/2020
Nill O	110	HSB: 6th Floor	C618 (Palmiter): Blue drape shielding overhead light is falling down, exposing strips of sticky tape. Replace all old tape or consider nontape option for securing drape—strong little magnets might work	37 07 2020	2,772020
Minor	no	Vivarium	nicely.	3/6/2020	2/7/2020
			P163A (Murry): 2 boxes of recently expired anti-nausea drug discarded during visit (these were unopened, so no chance that any expired drugs were given to animals). Multiple boxes of expired surgical gloves remain in the room. All expired items should be clearly labeled and		
Minor	no	SLU: Brotman	discarded.	3/20/2020	2/7/2020
Minor	no	SLU: Brotman	B28 (Feed Room): All bags need to be stored at least 6" away from wall.	3/20/2020	2/7/2020
Minor	no	SLU: Brotman	C34: One spray bottle in an upper cabinet did not have contents labeled; this container and one other did not have the date when the solution was made up—a requirement even for non-expiring substances.	3/20/2020	2/7/2020
			B50: At least one lab-managed cage in room was not fully engaged (red dot on lever was visible). The host turned the wire cage top around and was able to get the cage fully engaged. This was previously noted as a problem on 3/1/19 visit in a different Brotman room (A43). Room techs are checking cages daily, even those that are being taken care of by the research team, but retraining and possible change in SOP should be considered, to ensure that ventilation is not compromised for	Retrieve	Obtained by Rised from Animal Res
Minor	no	SLU: Brotman	any animals.	3/20/2020	2/7/2020
		Guthrie Laboratory	051: Transfer stored items from their original cardboard boxes into plastic bins whenever feasible and		
Minor	no	Spaces	appropriate.	2/28/2020	2/7/2020

			423: Expired bag of fluids belonging		
			to the Regnier lab. Labeled as		
			expired by site visitor during visit. A		
Minor	no	SLU: Brotman	member of the Regnier lab was not present.	2/21/2020	2/11/2020
IVIIIIOI	110	SLO. BIOUIIIAII	446: Old unused syringes of	2/21/2020	2/11/2020
			buprenorphine were not labeled as		
			for disposal. Old or expired drugs		
			must be labeled as expired or waiting		
Minor	no	SLU: Brotman	for disposal.	2/21/2020	2/11/2020
			S509: A bag containing expired	, ,	, , -
			mouse mix was not labeled as		
			"expired" or "do not use". Expired		
		SLU 2	drugs need to be properly labeled to		
		Laboratory	ensure that they are not mistakenly		
Minor	no	Spaces	used in live animals.	3/6/2020	2/11/2020
			S509: More ketamine present in lock		
			box than indicated by drug log (~1		
			more bottle than log would indicate).		
			Additionally, "calculated balance on		
			hand" column was blank for recent		
			entries. Controlled drug logs need to		
		SLU 2	be complete, and need to be kept in		
		Laboratory	agreement with actual balance on		
Minor	no	Spaces	hand.	3/6/2020	2/11/2020
			051: Consider adding hanger(s) or		
			connection to the stainless steel rack		
		C U.S.	to hold up the mop and broom or		
		Guthrie	move/add new holder in area of		
Minor	no	Laboratory	room more appropriate for active use than current configuration.	2/28/2020	2/12/2020
IVIIIIOI	no	Spaces SLU 2	S243: Cardboard box on the floor is	2/20/2020	2/12/2020
		Laboratory	not sanitizable and should be raised		
Minor	no	Spaces	off the floor or removed from room.	3/6/2020	2/12/2020
IVIIIIOI	110	SLU 2	on the hoof of removed from room.	3/0/2020	2/12/2020
		Laboratory	S243: Expired suture needs to be		
Minor	no	Spaces	labeled "Not for use in live animals."	3/6/2020	2/12/2020
		•	T123 (Welsh): 1 ml syringe in drawer	, ,	, ,
			labeled with "Lido". There was no		Obtained by R
			expiration date and sterile solutions	Retriev	ed from Animal Re
			should not be stored long-term in	11011101	
			syringes because sterility cannot be		
		HSB: T-wing	assured. This was disposed of in the		
Minor	no	Vivarium	sharps container by the site visitor.	2/12/2020	2/12/2020
			T123 (Welsh): Loose forceps with		
			suture needle in drawer. This is an		
			occupational health hazard because		
			someone could be poked. The suture		
		HSB: T-wing	needle was disposed of in a sharps		- 1: - 1: - :
Minor	no	Vivarium	container by the site visitor.	2/12/2020	2/12/2020

		HSB: T-wing	T123 (Welsh): Expired eye lubrication ointment (1/20) – disposed of by site		
Minor	no	Vivarium	visitor.	2/12/2020	2/12/2020
		CHDD	055: Paint chips on wall next to door.	, ,	, , ,
Minor	no	Vivarium	Group to submit work order.	4/30/2020	2/13/2020
		SLU 3.2:	F545: Cardboard box on the floor is		
		Laboratory	not sanitizable and should be		
Minor	no	Spaces	removed.	3/6/2020	2/14/2020
			T117 (Froehner): Two Ziploc bags of		
			special diet in the refrigerator that		
<b>N.4</b> 1		HSB: T-wing	were not labeled with the diet name	2/5/2020	2/44/2020
Minor	no	Vivarium	or expiration date.	3/6/2020	2/14/2020
			260: Expired syringes in the rooms.		
			The syringes where the orange recapping type with an expiration		
			date of 2007. Please dispose of.		
			Recommend investigators go		
			through the drawers and discard old		
		Roosevelt	regents or anything that is currently		
Minor	no	Building	not being used.	2/21/2020	2/19/2020
			E767: The lid of the glue pest (insect)		
			trap in this room had been		
			dislodged, exposing a sticky surface		
		SLU 3.1:	that could potentially trap a small		
		Laboratory	rodent. Lid was snapped back on		
Minor	no	Spaces	during visit.	2/19/2020	2/19/2020
		00	E763: Autoclave log shows		
		SLU 3.1:	incomplete data for some runs—		
Minor	20	Laboratory	must log all required information	2/20/2020	2/21/2020
Minor	no	Spaces SLU 3.1: 0	with every load.	3/20/2020	2/21/2020
		Level	E068: Cardboard box on floor –		
Minor	no	Vivarium	emptied and removed during visit.	2/24/2020	2/24/2020
14111101	110	SLU 3.1: 0	emptica and removed daring visit.	2/2 1/2020	2/21/2020
		Level	E068: Expired suture – discarded		
Minor	no	Vivarium	during visit.	2/24/2020	2/24/2020
			K015E (Chavkin): Scotch tape should		
			be removed from behavioral		
		HSB: K-wing	chambers, all dirty or damaged tape		Obtained by Ris
Minor	no	Vivarium	should also be removed.	2/28/2020Retriev	red from/AMAMARes
		SLU 3.1: 0	E068 (Xu): Gas anesthesia induction		
		Level	chamber is dirty – group should		
Minor	no	Vivarium	clean it after each use.	3/27/2020	2/27/2020
			E045 (Shankland): Lab supplies in		
			plastic container - found expired		
		SLU 3.1: 0	materials including sterile neoprene		
		Level	gloves, gelfoam, suture – need to discard or mark for terminal		
Minor	no	Vivarium	procedures only.	3/20/2020	2/27/2020
	110	vivarialli	procedures offig.	3/ 20/ 2020	2/2//2020

			E088D (Van Voorhis): 6% hydrogen		
			peroxide in spray bottles with dates		
		CLU 2.4. 0	on them (no year indicated) and it's		
		SLU 3.1: 0	unclear as to whether that is an		
14:-or		Level	expiration or a made by date. Please	2/42/2020	2/20/2020
Minor	no	Vivarium SLU 3.1: 0	make those dates more clear.	3/13/2020	2/28/2020
		SLU 3.1: U	E045: Full large sharps container		
Minor	no	Vivarium	should be disposed of.	3/13/2020	3/3/2020
IVIIIIOI	110	SLU 3.1: 0	E078: Hygrometer in room also	3/13/2020	3/3/2020
		Level	appears to be broken. Please		
Minor	no	Vivarium	repair/replace as appropriate.	3/27/2020	3/4/2020
IVIIII .	1.0	VIV. 3	228: A couple of cage locks were	5/2//2023	<i>S</i> <sub>1</sub> ., = = = =
			found unsecured (not in locations		
		WaNPRC:	that could have allowed animals to		
Minor	no	Western	escape), corrected during visit.	3/4/2020	3/4/2020
		WaNPRC:	241: Expired saline, discarded during	, ,	
Minor	no	Western	visit.	3/4/2020	3/4/2020
		WaNPRC:	327: Expired disinfection wipes		
Minor	no	Western	thrown away at the time of the visit.	3/4/2020	3/4/2020
			216: Some animals that should have		
			social access had their cages closed		
			off, not clear why. BM corrected this		
			during the visit, but may want to		
		WaNPRC:	follow up to understand why this		
Minor	no	Western	happened.	3/4/2020	3/4/2020
			234: Refrigerator containing		
241.24		WaNPRC:	controlled substances was unlocked.	2/4/2020	2/4/2020
Minor	no	Western	Locked during visit.	3/4/2020	3/4/2020
		MANDDC.	212 (Dirty Cagewash): Expired		
Minor	20	WaNPRC: Western	disinfection wipes thrown away at the time of visit.	3/4/2020	3/4/2020
MILLO	no	SLU 2	N101: Floor tape should be replaced	3/4/2020	3/4/2020
		Laboratory	when looking dirty, OR have BGIS		
Minor	no	Spaces	paint a line on the floor.	3/27/2020	3/5/2020
IVIIIO	HO	SLU 3.1: 0	paint a line on the noon.	3/21/2020	3/3/2020
		Level	E021D: 6 weeks since last entry on		
Minor	no	Vivarium	monthly log for changing station.	3/27/2020	3/5/2020
171		VII IIII	E071: Both technicians working in	3/2-/	3/5/2020 Obtained by Rise
			the dirty side cage wash were not	Retriev	ved from Animal Res
			wearing required ear protection.		ed II olii 7 ti
		SLU 3.1: 0	Please be sure that all personnel		
		Level	wear appropriate PPE within the		
Minor	no	Vivarium	facility.	3/13/2020	3/5/2020
		SLU 3.1: 0			
		Level	E026: Food and nesting material		
Minor	no	Vivarium	seen under changing station.	3/27/2020	3/5/2020
		SLU 3.1: 0			
		Level	E026: Monthly logs not up-to-date –	( <u>(</u>	- /- /2000
Minor	no	Vivarium	no entries for 2020.	3/27/2020	3/5/2020

Minor	no	SLU 3.1: 0 Level Vivarium	E085D (Rack 96, Side A, Cage 3L; PI: Von Moltke): Several cages appeared overcrowded and due to be weaned. Cages were not marked for weaning by AT (birthdates on cage suggested at least one litter in cage >21d, no weaning variance posted). Please have group check cages and wean as appropriate.	3/6/2020	3/5/2020
		SLU 3.1: 0 Level	E088C IVIS imaging room (Paragas): Notations on F/air canisters are unclear – last notation with weight listed is 9/18 but room is used quite a bit so must ensure that canisters are being weighed after each anesthesia session and replaced		
Minor	no	Vivarium	when appropriate.	3/13/2020	3/5/2020
Minor	no	SLU 3.1: 0 Level Vivarium	E085D (Rack 96, Side B, Cage 2C): 1-2 pups in cage did appear not well. DR notified vet services.	3/13/2020	3/5/2020
Minor	no	SLU 3.1: 0 Level Vivarium	E078: Door sweep prevents door from properly closing. Please repair.	4/30/2020	3/5/2020
Minor		SLU 3.1: 0 Level Vivarium	E026: Clidox is expired. Please discard.	3/27/2020	3/5/2020
IVIIIIOI	no	SLU 3.1: 0 Level	E045: Eyewash is not being routinely flushed. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and	3/2//2020	3/3/2020
Minor	no	Vivarium SLU 3.1: 0	must be recorded in a log. E078: Low temperature for 2/24 not	3/27/2020	3/5/2020
Minor	no	Level Vivarium	noted on daily care log or reported to supervisor.	3/27/2020	3/5/2020
IVIIIIOI	110		E083: Only some tasks were recorded as complete on the daily care log (though AT had already "signed off" on the room for the	3, 21, 2020	Obtained by Rise
		SLU 3.1: 0 Level	day). Please be sure that all daily tasks are completed and	Retriev	ed from Animal Rese
Minor	no	Vivarium	documented appropriately.	3/13/2020	3/5/2020
		SLU 3.1: 0 Level	E079: Only some tasks were recorded as complete on the daily care log (though AT had already "signed off" on the room for the day). Please be sure that all daily tasks are completed and		
Minor	no	Vivarium	documented appropriately.	3/13/2020	3/5/2020

			E085D: Bins used to store chow also seemed rather large and were heavy		
		SLU 3.1: 0	- seems like it might present an		
		Level	ergonomic issue for ATs. Please review and switch to the smaller		
Minor	no	Vivarium	(more standard) bin size if possible.	3/27/2020	3/5/2020
			E757A: Chair in room has cracks in		
		SLU 3.1:	surface, exposing interior foam.		
		Laboratory	Chair must be replaced with one that	. / /	. / . /
Minor	no	Spaces	is sound, sealed and sanitizable.  E757: 2 small unlabeled tubes found	3/20/2020	3/6/2020
		SLU 3.1:	on bench. Probably just balance		
		Laboratory	tubes, but these need to be clearly		
Minor	no	Spaces	labeled and contents identified.	3/20/2020	3/6/2020
		•	E763: Chair in room has cracks in		
		SLU 3.1:	surface, exposing interior foam.		
		Laboratory	Chair must be replaced with one that		
Minor	no	Spaces	is sound, sealed and sanitizable.	3/20/2020	3/6/2020
			T135 (Perlmutter): There was an		
			enrichment cage with unsealed wood and toys and rope that were		
			unsanitizable in the corner of this		
			room. Is this being used? If so, how is		
			it sanitized? There appeared to be a		
		HSB: T-wing	rat fecal pellet towards the bottom		
Minor	no	Vivarium	of the cage, near the floor.	3/6/2020	3/6/2020
		SLU 3.1:			
N 4:		Laboratory	E569: Expired ketamine needs to be returned to reverse distributor.	2/20/2020	2/12/2020
Minor	no	Spaces	I534N: Eyewash was overdue for	3/20/2020	3/12/2020
			flushing. Eyewash station requires		
			flushing once per week to protect		
			personnel from potential build-up of		
		HSB: I-wing	contaminants in the water line and		
		Laboratory	must be recorded in a log. Flushed		
Minor	no	Spaces	during visit.	3/13/2020	3/13/2020
		HSB: J-wing	1420A. Eurinad fiab flates disconded		
Minor	no	Laboratory Spaces	J430A: Expired fish flakes discarded during visit.	3/13/2020	Obtained by Ris
IVIIIIOI	110	WaNPRC:	234: Expired Amber microtainers.		
Minor	no	Western	Please discard.	4/3/2020	ved from Animal Res 3/18/2020
		WaNPRC:	Transport Van: The lower latch on the interior door (between cab and back of van) is broken (missing a securing screw) and needs to be	· .	
Minor	no	Western	fixed.	5/29/2020	3/19/2020
		WaNPRC: RR-			
		Wing	RR142: Expired – 1 drug – discarded	- 1 1	- 6
Minor	no	Vivarium	during visit.	3/20/2020	3/20/2020

		WaNPRC: RR-	RR050: Expired – 2 drugs, Urinalysis pH strips, vitamins and 1 bottle of		
Minor	no	Wing Vivarium	tissue adhesive – discarded during visit.	3/20/2020	3/20/2020
IVIIIIOI	no	WaNPRC: I-	VISIT.	3/20/2020	3/20/2020
		wing	I355: Need to record date received		
Minor	no	Vivarium	for produce.	4/24/2020	3/23/2020
			B201 (Treatment room): Expired	, ,	-, -, -
		ARCF (Animal	boxes of drug used in rodent cage for		
		Research &	fur mite treatments – discarded at		
Minor	no	Care Facility)	time of visit.	3/25/2020	3/25/2020
		ARCF (Animal			
		Research &	B284: Expired bag of fluids –		
Minor	no	Care Facility)	discarded at time of visit.	3/25/2020	3/25/2020
			1047 (Instrument Prep): Several rust spots in bottom of stainless steel sink as a result of metal basket sitting in bottom of sink— should be scrubbed to remove rust. Found an extremely rusty metal basket (approx. 3"x 8") that is likely used for instruments (forceps, etc.) in sink. Rusty metal		
		WaNPRC: I-	basket should be discarded. Found		
		wing	dustpan on the floor – hung it up		
Minor	no	Vivarium	during visit.	5/1/2020	3/25/2020
		HSB: B-wing			
N 4:		Laboratory	B144C: One cage had no nestlet. It	4/24/2020	2/26/2020
Minor	no	Spaces	seemed to be an oversight.  RR040: Emergency landline phone	4/24/2020	3/26/2020
			attached to the wall (but needs to be		
		WaNPRC: RR-	connected to a phone jack to work) –		
		Wing	suggest small sign next to phone		
Minor	no	Vivarium	with directions on how to use it.	4/24/2020	3/27/2020
		ARCF (Animal	B151D: Expired 1X PBS in cabinet		
		Research &	should be clearly marked 'Not for		
Minor	no	Care Facility)	use in animals'.	4/24/2020	3/30/2020
		ARCF (Animal	B151E: Slide warmer in rear corner		
		Research &	of room has some brown goo that	. /0 . /0000	Ohtained by Ris
Minor	no	Care Facility)	should be cleaned up.	4/24/2020	Obtained by Ris
		Guthrie	354A: Expired surgical glue,	Retrie	ved from Animal Res
Minor	no	Laboratory Spaces	antibiotic cream and artificial tears – discarded during the visit.	4/1/2020	4/1/2020
IVIIIOI	no	Guthrie	419A: Last entry in eyewash log is 9/30/19, need to check eyewash weekly. Eyewash station requires flushing once per week to protect personnel from potential build-up of	4/1/2020	4/1/2020
<b>.</b> 4:		Laboratory	contaminants in the water line and	4/24/2022	4/4/2222
Minor	no	Spaces	must be recorded in a log.	4/24/2020	4/1/2020

Minor	no	Western	failures in past 2 months.	4/3/2020	4/6/2020
N 41: :		WaNPRC:	213 (Clean Cagewash): Temp Strips logged daily (except Sundays), no	4/2/2020	4/5/2020
Minor	no	WaNPRC: Western	316 (Housing): One side of a dual cage (Male and Female paired) did not have a food hopper. Plenty of chow was on the floor of that side of the cage.	4/3/2020	4/6/2020
Minor	no	ARCF (Animal Research & Care Facility)	B271 (dirty side): Mop standing upside down with the handle on the floor and the dirty mop in the air, leaning against the wall, directly under the hanging device. The mop should be hung up, with the mop facing down.	<b>Retrieve</b> 4/24/2020	Obtained by R ed from Animal Re 4/6/2020
Minor	no	ARCF (Animal Research & Care Facility)	B271 (dirty side): Expired hydrogen peroxide (Jan. 16, 2019).	4/24/2020	4/6/2020
Minor	no	HSB: 6th Floor Vivarium	C621: Two (2) Isoflurane dispensers need to be re-certified prior to next use. Please label clearly so they are not used until they have been recertified.	4/17/2020	4/6/2020
Minor	no	WaNPRC: I- wing Vivarium	1005 (anteroom) to 1013, 1021 suite: Door jam with nothing but residual glue from what appears to be duct tape all the way around the door jam. It's really bad and noticeable - the residual glue needs to be removed.	7/31/2020	,,,,,====
Minor	no	WaNPRC: Arizona	AA190C: Refrigerator had 2 containers filled with unidentified, unlabeled substance (jello?) with no dates on the container. Please immediately discarded.	5/1/2020	4/3/2020
Minor	no	WaNPRC: I- wing Vivarium	IO13: Swifter sweeper was found propped up against the wall and resting on floor in the corner of lab. Broom, mops, etc., should be hung up off floor.	5/1/2020	4/2/2020
Minor	no	WaNPRC: I- wing Vivarium	IO13: Eyewash not up-to-date. Eyewash station requires flushing once per week and must be recorded in a log.	5/1/2020	4/2/2020
Minor	no	Guthrie Laboratory Spaces	044 Suite: Please always note when animals are not present in the daily care logs. It is being done sporadically, but there are a lot of partially blank logs with no notes about whether or not animals were present.	4/24/2020	4/1/2020

Minor	no	WaNPRC: Western	304 (Corridor): Expired emergency animal water (12/15/19).	4/3/2020	4/6/2020
			320: Unclear if logs are kept of when		
			these trapping run cages are		
		WaNPRC:	sanitized. It is performed after each		
Minor	no	Western	use according to the host.	4/3/2020	4/6/2020
		WaNPRC: I-			
		wing			
Minor	no	Vivarium	I441: Door needs cleaning.	4/24/2020	4/7/2020
		ARCF (Animal	B144D: Bottle of 70% ETOH labeled		
		Research &	made date 3/14/19 should be		
Minor	no	Care Facility)	discarded.	4/24/2020	4/10/2020
			369E, F: Hygrometer readings in the		
			room showed higher than normal		
			temperatures. Asked Facility		
		Guthrie	Supervisor to check on the		
Minor	no	Vivarium	monitoring system readings.	4/24/2020	4/10/2020
			Ceiling vents (x2) were dusty (one	.,,	.,
		North Lake	more so than the other). Please		
Minor	no	Diesel	clean as necessary.	3/20/2020	4/10/2020
		Diesei	213 (Clean Cagewash): Several	3/20/2020	1,7 10,7 2020
		WaNPRC:	employees are past due for		
Minor	no	Western	cagewasher safety training.	4/10/2020	4/12/2020
14111101	110	ARCF (Animal	eagewaster sarety training.	17 107 2020	17 127 2020
		Research &	B177: Small O2 tank was not secured		
Minor	no	Care Facility)	to a wall or cage.	5/29/2020	4/13/2020
IVIIIIOI	110	Care racinty)	363A: Behavior room hasn't been	3/23/2020	4/ 13/ 2020
			used in the last year, but there are		
		Guthrie	small food reward pellets on the		
		Laboratory	floor underneath the elevated maze.		
Minor	no	Spaces	Floor should be swept.	4/24/2020	4/13/2020
IVIIIIOI	110	Эрассэ	Transport Van: Van was a little dirty	7/27/2020	4/ 13/ 2020
			and a little smelly. Van appears to be		
			getting cleaned less frequently than		
		WaNPRC:	described in SOP. Please review SOP		
Minor	no	Western	and follow it.	5/29/2020	4/15/2020
IVIIIIOI	no	western	Logs indicate that the eyewash	5/29/2020	4/15/2020
			stations/showers haven't been		
		Wande.	tested since the 2nd week of		Obtained by Rise
Minor	no	WaNPRC: Western		4/24/2020	_
IVIIIIOI	no	western	February.	4/24/202 Retrie	ved from AFM mad Res
			AA706: Some frogs are singly housed		
			and there was no obvious EE in any		
			of the tanks. Inspector was told that		
			rotifers were being provided as EE		
			several times a week when they are		
			available, but there have been		
			problems with the rotifer colony, and		
		LICD. CIL	this has not always been possible.		
		HSB: 6th	There are no husbandry or		
n 4:		Floor	enrichment exceptions for any of the	4/47/2022	111010000
Minor	no	Vivarium	experiments on this protocol, and I	4/17/2020	4/16/2020

			can't find guidelines on frog housing, socialization and EE, so I am not sure if these are problems or not. It does sound as if the group is working with G. Sanders to optimize the care of their animals.		
Minor	no	HSB: 6th Floor Vivarium	C615: Used F/AIR canisters stored in drawers. Used canisters should be placed in a gas-tight container (ziplock baggy or Tupperware-type container to prevent potentially toxic off-gassing) until EH&S pickup can be arranged.	4/17/2020	4/17/2020
		North Lake	Some animal cages had "red" dot while over 60% of animal cages had no "red" dot; all caging in this facility should have "red" dot per DCM guidelines for rack/watering purposes. To be corrected in a timely		·
Minor	no	Diesel	manner. B145A: Bottle of Isopropyl Alcohol	3/20/2020	4/17/2020
Minor	no	ARCF (Animal Research & Care Facility)	labeled "Arrived 1-3-19". Not sure what that means, but it should have a "Made up" date.	4/24/2020	4/20/2020
Minor	no	Guthrie Laboratory Spaces	051: Daily logs not established or present. Lab need to create a daily care log, health/mort required, water parameters strongly encouraged, weekly/bi monthly/monthly tasks encouraged, behavior optional.	4/24/2020	4/20/2020
		·	054: Daily logs not established or present. Lab need to create a daily care log, health/mort required, water parameters strongly	.,,	Obtained by Rise
		Guthrie Laboratory	encouraged, weekly/bi	Retriev	ed from Animal Rese
Minor	no	Spaces	monthly/monthly tasks encouraged, behavior optional.	4/24/2020	4/20/2020
		WaNPRC: RR- Wing	RR052: Checklist has daily tasks, but tasks in this room are completed only after it's been used and thus there is no signed off on tasks daily. The checklist should be modified or enter N/A on days when tasks are		
Minor	no	Vivarium	not necessary.	4/24/2020	4/22/2020

			354A: Surgery scope area is dirty		
		Guthrie	(pieces of bedding/nestlet material)		
		Laboratory	and cluttered – should be kept clean		
Minor	no	Spaces	and organized.	4/24/2020	4/25/2020
			E088C and other rooms throughout		
			the facility: Chairs are not sealed and		
			sanitizable – need to replace with		
			more appropriate chair material		
		SLU 3.1: 0	especially in the biohazard areas –		
		Level	Facility Supervisor to put in request		
Minor	no	Vivarium	to get new chairs.	4/30/2020	4/30/2020
			Feed Storage 2: 1 bag of forage not	<u> </u>	, ,
			labeled with an open date. Please		
			label the bag with the open date and		
		WaNPRC:	expiration date of 6 months from the		
Minor	no	Arizona	open date.	5/1/2020	5/1/2020
IVIIIIOI	110	WaNPRC:	AA204: Storage rack does not have a	3/1/2020	3/1/2020
Minor	no	Arizona	sanitized/expiration date label.	5/1/2020	5/1/2020
IVIIIIOI	110	Alizona	AA190B (walk in cooler): White	3/1/2020	3/1/2020
		WaNPRC:	•		
Minon			container used for forage has no	F /1 /2020	F /1 /2020
Minor	no	Arizona	sanitized/expiration date label.	5/1/2020	5/1/2020
		WaNPRC:	AB307: Shiny metal table used for		
		Arizona	storage has an expired sanitized tag	- / . /	- / . /
Minor	no	Ellingson	on it.	5/1/2020	5/1/2020
			B145B: T-maze made of painted		
			wood that contains a brown sliding		
			divider made of hardboard (like a		
		ARCF (Animal	clipboard material) that's not		
		Research &	sanitizable. Consider sealing the T-		
Minor	no	Care Facility)	maze for a sanitizable surface.	5/29/2020	5/4/2020
			RR151: Cage washer emergency		
			cable no longer has a color coating		
		WaNPRC: RR-	so may be difficult to see. Cable		
		Wing	needs to be replaced with a color		
Minor	no	Vivarium	coated one.	5/15/2020	5/12/2020
			Emergency exit test log in the wash		
		ARCF (Animal	room was not up-to-date. It is		
		Research &	supposed to be checked quarterly,		
Minor	no	Care Facility)	but it was last signed 6/12/19.	5/15/2020	Obtained by Rise
			AA190B (walk in cooler): White	Retrie	ved from Animal Rese
		WaNPRC:	container used for forage has a		
Minor	no	Arizona	cracked/broken lid.	5/15/2020	5/14/2020
		WaNPRC:	AB307: White container used to		
		Arizona	store forage has a cracked/broken		
Minor	no	Ellingson	lid.	5/15/2020	5/14/2020
		<u> </u>	The wooden table in the rear corner		
			of the room is not in good shape,		
			with many areas where bare wood is		
		SLU 3.1:	visible. This table needs to be		
		Laboratory	removed from the area where		
Minor	no	Spaces	animals will be used because it	5/31/2020	5/14/2020
14111101	110	Spaces	arminals will be asea because it	3,31,2020	3, 17, 2020

			cannot be properly cleaned and sanitized.		
		SLU 3.1:	All managethat is pasted accept to		
		Laboratory	All paper that is posted must be laminated or placed in a plastic		
Minor	no	Spaces	sleeve (including post-it notes).	5/31/2020	5/18/2020
		·	NW141A: Isoflurane vaporizer is past	· ·	
		HSB	due for service. Instructed to post a		
		Laboratory	sign stating "Do Not Use Until	s /20 /2020	5 /24 /2020
Minor	no	Spaces	Calibrated."	6/30/2020	5/21/2020
			218: A fire sprinkler head was dangling from an unfinished hole in		
			ceiling, please check and contact		
		WaNPRC:	facility services if a repair is needed		
Minor	no	Western	(it may be OK).	5/31/2020	5/21/2020
			Tape use should be minimized. Any		
		SLU 3.1:	tape that is used should be		
Ndinan		Laboratory	sanitizable lab tape in good condition.	F /24 /2020	E /2E /2020
Minor	no	Spaces SLU 3.1:	All posted signage needs to be	5/31/2020	5/25/2020
		Laboratory	laminated or placed in a plastic		
Minor	no	Spaces	sleeve.	5/31/2020	5/25/2020
		SLU 3.1:	Step stool is very rusty and needs to		
		Laboratory	be removed. Only non-rusty items		
Minor	no	Spaces	should be in this room.	5/31/2020	5/25/2020
			212M: Bell jar used for euthanasia		
Minor		Life Sciences	was dirty and reminded needs to be	6/10/2020	F /26 /2020
Minor	no	Building	cleaned out between uses.  162: Install hose coil for hose	6/19/2020	5/26/2020
		Portage Bay	currently on floor. Group to submit		
Minor	no	Building	work order.	5/31/2020	5/29/2020
		<u> </u>	Emergency showers in the procedure	• •	
			rooms (not in the main hallway) had		
			not been checked since January		
Minor	no		2019.	6/26/2020	6/9/2020
			E088C: No notation on vaporizer on		
		SLU 3.1: 0	when last calibration was performed and gas anesthesia system machine		Obtained by Ri
		Level	and gas anestnesia system machine appears dirty with bedding and rust	Retriev	ved from Animal Re
Minor	no	Vivarium	noted at the time of the visit.	7/31/2020	6/11/2020

# Status of Uncompleted Deficiencies as of the Previous Semi-Annual Report

Severity	Repeat?	Building	Concern Description	Date Correction Due	Date Complete
Minor	no	Friday Harbor Laboratories	Due to a boat being out of commission, a student course that normally does open water observational work was changed to include catching of fish via beach seine netting and placement of the fish in holding tanks at FHL. This change in plans was not covered under an approved IACUC protocol and the fish were caught without a WA State Fish and Wildlife permit. In addition, the instructor and the students involved were not enrolled in the Occupational Health Program and the students had not taken the required training for participation in vertebrate animal classes at UW FHL. A new protocol was reviewed and approved by the IACUC and the researcher obtained a WA State Fish and Wildlife permit.	2/29/2020	2/3/2020
Minor	no	Ninth & Jefferson Building	3NJ383.2: On the right front of the PET scanner, there's a hole in the floor that should be filled.	2/29/2020	2/8/2020
Minor	no	Ninth & Jefferson Building	3NJ383.2: Damaged ceiling tile (has a hole), part of the sub-ceiling is bent forming a gap in the ceiling tiles.	2/29/2020	2/8/2020
Minor	no	WaNPRC: I- Wing Vivarium	J025B: Hallway wall outside clean cagewash room has gouges. Repaired during the cagewash area renovation.	2/29/2020	2/27/2020
Minor	no	WaNPRC: I- Wing Vivarium	J025A (dirty cagewash): Coving of washdown, ceiling have significant cracks and holes. Cagewash area was completed renovated.	2/29/2020	2/27/2020
Minor	no	WaNPRC: Arizona Ellingson	Lights in hospital room need to be on timer rather than occupancy sensor.		om Animal Res
Minor	no	WaNPRC: Arizona Ellingson	Windows in doors needed to animal areas.	2/29/2020	2/19/2020
Minor	no	WaNPRC: I- Wing Vivarium	I061: Chipped paint by I061. WaNPRC to submit facility repair request.	2/29/2020	Pending Corrective Action - Due Date 7/31/20

Minor	no	ARCF (Animal Research & Care Facility)	B278: Wall chip by door. Please repair/repaint so that surface is sealed and sanitizable.	2/29/2020	Pending Corrective Action - Due Date 7/31/20
Minor no		Friday Harbor Laboratories	Lab 2 "Willows Lab" Octopus use space for Gire Lab: Open floor drains will need non-wooden covers. Remove unsealed wooden furniture, repair rusted refrigerator exterior surfaces/freezers, remove rust from bases of island desk shelving units (like previously completed for Lab 7), hole in southwest wall.	3/31/2020	Space will not be used until renovation funds are acquired by Department

### Appendix C Departures

#### **Prolonged restraint**

Active protocols with approved prolonged restraint are as follows:

- Wild bats, held in cloth bags for transport 1 protocol
- Wild Birds, held and hooded for transport or equipment attachment -4 protocols
- Wild mammals, held during capture 6 protocols
- Wild fish, captured in gill or tow nets 5 protocols
- Zebrafish, held in a matrix for imaging 4 protocols
- Mice, held in tubes for various procedures 16 protocols
- Mice, held by head posts 6 protocols
- Nonhuman primates, held in chairs or tubes with or without head posts 12 protocols
- Nonhuman primates, constrained by swaddling 2 protocols
- Pigs, held in slings 2 protocols

### Housing at Non-standard Temperature

Active protocols with approved housing at non-standard temperatures are:

- Zebrafish following human cell transplantation or for heat-shock gene activation 2 protocols
- Mice housed under cold stress or at thermo-neutral temperatures during metabolic experiments
   2 protocols

#### Others

- The IACUC has approved housing infant monkeys (age 2 weeks to a body weight of 1 kg) in cages that meet floor space requirements but are only 24" high. These animals climb up well, but are not adept at climbing down. The lower cage height reduces the risk of injury of from Animal Rese animal should fall.
- The IACUC has approved co-housing 4 juvenile nonhuman primates (up to 5 kg body weight) as a group in a Group 3 sized 4-cage rack with both vertical dividers and one horizontal divider removed. This innovative configuration meets the volume regulations for Group 3 animals and, while being shy of the floor area standard, provides the animals increased opportunity to express species-typical behavior.
- The IACUC has approved a L shaped housing variance combining cages together in configurations that provide increased vertical space for the animals and more than standard floor space but with part of the space <36 inches (but at least 32 inches) high. This will offer more choice in housing configurations to encourage species-typical behavior such as locomotion and exploration.
- The IACUC has approved scattering food on the floor of NHP housing compounds to minimize contamination and ensure access to food and foraging opportunities for all animals.

- The IACUC has approved allowing for 28 day cage changes for singly house gerbils.

# **Appendix D IACUC Program Review**

<u>The Animal Care and Use Program</u> is, in general, excellent, and responsibilities are well-defined. In the past there was a concern about funding for facility repairs, but that has been addressed.

<u>Disaster Planning and Emergency Preparedness:</u> Disaster plans for DCM and WaNPRC were reviewed, as well as the COVID-19 work plans for DCM, WaNPRC, and OAW. They were found to be comprehensive, which means it is a challenge to keep all of the details up to date, and DCM and WaNPRC are doing an excellent job managing them. OAW, DCM, and WaNPRC are to be commended on their response to the COVID-19 pandemic.

<u>IACUC</u>: The IACUC was evaluated and found to be completely satisfactory. Regarding the evaluation of the effectiveness of IACUC training, it was noted that all programs with a pass/fail requirement meet this criteria as we know that attendees have met a minimum criteria before undertaking their roles. It was not as easy to evaluate the effectiveness of training that occurs at IACUC meetings or through mentoring by another member.

IACUC Protocol Review is acceptable with the following recommendations:

- Humane endpoints: OAW liaisons should be sure to include in liaison visits a discussion about what humane endpoints are listed on the protocol and make sure all relevant lab personnel are aware and knowledgeable about checking for them.
- Protocols with Food/Fluid Restriction: Recommendation to have a standard reminder for IACUC site visitors at the bottom of the visit schedule that is provided to remind site visitors to check Food/Fluid restriction logs including body weights to confirm they are being collected.
- Mechanism to follow up on Pilot projects: For Full Committee Reviews (FCR), the IACUC should have a mechanism to keep track of the studies that are discussed so that we can formally follow-up on the progress and results. The previous Assistant Director did that and perhaps the new one can continue to include pilot study reviews in subsequent IACUC meeting agendas. For pilot studies that are reviewed through Designated Member Review (DMR), it is recommended that a way for liaisons to check with the group on pilot study follow-up, either by e-mail or during liaison visits, is established.

IACUC Membership and Functions were found to be acceptable.

IACUC Training was found to be acceptable.

<u>IACUC Records and Reporting Requirements</u> were found to be acceptable though it was noted that the committee relies on OAW to ensure that all criteria are met. The committee is not aware of any non-compliance.

#### Veterinary Care

Obtained by Rise

**Retrieved from Animal Rese** 

Previous suggestions for improvement were reviewed as was the Veterinary Care section of the OLAW Checklist.

Previous suggestions:

- Provision of vet care to cephalopods/octopuses
  - o DCM and OAW have worked with the octopus group to ensure appropriate husbandry, care and personnel training. The first IACUC protocol involving octopuses was reviewed and approved in February 2020. The lab has worked with the Aquatics Vet to ensure to appropriate housing and husbandry in their lab space. A didactic class on Lab Managed Care and Records Octopus was developed and implemented as well as the Aquatics vet gave a special seminar to veterinary staff on "Octopus Regulations, Husbandry and Veterinary Care." Hands-on training for octopus handling has also been developed and implemented and all training is being tracked in Hoverboard.

- Involve Veterinary staff in updating of the training program (primarily rodent) to facilitate better surgery, anesthesia, and analgesia, post anesthesia/post procedural monitoring
  - AUTS has worked with the vet staff to design and revise on-line lessons covering these topics including revision of the Introduction to Rodent Surgery course which will be completed and implemented shortly.
- Ensure upcoming revisions to the AVMA Guidelines for Euthanasia are incorporated into IACUC policies (e.g. Euthanasia of Research and Teaching Animals), SOPs, protocol standard procedures, and signage
  - OAW has been working with the labs to educate them on the revisions and to add revised standard euthanasia procedure to protocols. Euthanasia of Research and Teaching Animals policy was revised and approved by the IACUC in March 2020. DCM is retrofitting CO2 flowmeters in vivarium spaces to allow the required flow rate and will update signage as that occurs.
- Ensure the AAALAC program description is updated to reflect changes made to the program
   work in progress.

Review of the OLAW checklist did not reveal any new suggestions for improvement to the veterinary care program.

<u>Personnel Qualifications and Training</u> was found to be acceptable though it was noted that pandemic guidance (including, for example, safe spacing instructions for labs) should be added to future on-line training modules for both IACUC members and UW research personnel.

Occupational Health & Safety of Personnel was found to be acceptable.

<u>Personnel Security:</u> There have been no changes since the previous evaluation 6 months ago. The University of Washington meets the guidelines for Personnel Security.

<u>Investigating Animal Welfare and Concerns:</u> There have been no changes since the previous evaluation 6 months ago. OAW has a clear process for investigating and reporting animal welfare concerns that meets the requirements of the Guide.

Obtained by Rise

**Retrieved from Animal Rese** 

# **Concurrence Letters**

Concurrence Image - KS
Concurrence Image - FRR
Concurrence Image - SRH
Concurrence Image - KMG
Concurrence Image - SL
Concurrence Image - KG
Concurrence Image - JS
Concurrence Image - CM
Concurrence Image - MK
Concurrence Image - JPVH
Concurrence Image - AW
Concurrence Image - MB
Concurrence Image - DM
Concurrence Image - ML
Concurrence Image - GS
Concurrence Image - JM
Concurrence Image - JA

**Obtained by Rise Retrieved from Animal Rese** 

Minority Views	
None	

Obtained by Rise

**Retrieved from Animal Rese**