

Subject: RE: Call

From: "[REDACTED] - APHIS" [REDACTED]

Date: 5/17/2019, 9:53 AM

To: Manny Garcia <manuel.garcia@ucsb.edu>

CC: Stu Feinstein <stu.feinstein@lifesci.ucsb.edu>, IACUC <iacuc@lifesci.ucsb.edu>

Hi Manny,

Yes, we received it. The information is still under review. I will contact you as soon as the review is complete.

Thanks

From: Manny Garcia [mailto:manuel.garcia@ucsb.edu]

Sent: Monday, May 13, 2019 11:36 AM

To: [REDACTED] - APHIS [REDACTED]

Cc: Stu Feinstein <stu.feinstein@lifesci.ucsb.edu>; IACUC <iacuc@lifesci.ucsb.edu>

Subject: Re: Call

Hi [REDACTED],

I'm attaching the IACUC's draft investigation report that includes all our information on this case to date. Please understand that this was an unusual clinical case, which required some investigation and clinical and pathology testing to try and determine the underlying cause of the clinical problem and whether or not it was an adverse event or a spontaneous and unexpected clinical problem. Once we met with the lab and determined that there may have been a noncompliance related to the humane endpoint monitoring plan, we moved as promptly as possible to resolve those issues and report the potential noncompliance. We hope and believe that this report meets your definition of "prompt" report.

Please let me know if you have any questions. Please also send my thanks to [REDACTED].
Manny

Manuel (Manny) A Garcia
Campus Veterinarian & Director
Office of Research / Animal Resource Center
Office: (805) 893-7344
Mobile: (805) 451-5931
Email: manuel.garcia@ucsb.edu

On Fri, May 10, 2019 at 2:57 PM [REDACTED] - APHIS [REDACTED] wrote:

Hello Dr. Garcia,

I'm sorry I missed your call earlier. I spoke to [REDACTED] and she told me of the self-reporting of the incident. Once we receive all the information, I will be in touch with you.

Thanks,

 DVM

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Subject: Re: Proposed Housing SOP for UCSB [REDACTED] Reserve
From: IACUC Office <iacuc@lifesci.ucsb.edu>
Date: 5/31/2019, 1:57 PM
To: "[REDACTED]" [REDACTED]

Hi [REDACTED],

[REDACTED] Reserve is located [REDACTED] at [REDACTED]
[REDACTED]. [REDACTED], turn east on [REDACTED]
[REDACTED]
[REDACTED] Please drive slowly on [REDACTED] - neighbors and wildlife appreciate the posted 25 mph speed limit. Follow the signs into the [REDACTED] from the main gate. If the gate is not open, the code is [REDACTED]. Let me know if you have any other questions.

Thanks,
[REDACTED]

On 5/31/2019 1:28 PM, [REDACTED] - APHIS wrote:

Hi,
I will be there on Tuesday around 1100. Can you please send me the directions.
Thanks

-----Original Message-----

From: IACUC Office [<mailto:iacuc@lifesci.ucsb.edu>]
Sent: Friday, May 31, 2019 9:09 AM
To: [REDACTED] - APHIS [REDACTED]
Cc: Manny Garcia <manuel.garcia@ucsb.edu>; Stu Feinstein <stu.feinstein@lifesci.ucsb.edu>
Subject: Re: Proposed Housing SOP for UCSB [REDACTED]

Great! It sounds like any of those days will work for our Reserve Director, [REDACTED]. If you let me know when you think you will be stopping by, I will let [REDACTED] know when to expect you. Do you need directions to the reserve or anything else from us beforehand?

Thanks,
[REDACTED]

On 5/30/2019 2:39 PM, [REDACTED] - APHIS wrote:

I am available Monday - Wednesday next week.

-----Original Message-----

From: IACUC Office [<mailto:iacuc@lifesci.ucsb.edu>]
Sent: Wednesday, May 29, 2019 3:49 PM
To: [REDACTED] - APHIS [REDACTED]
Cc: Manny Garcia <manuel.garcia@ucsb.edu>; Stu Feinstein <stu.feinstein@lifesci.ucsb.edu>
Subject: Proposed Housing SOP for UCSB [REDACTED] Reserve

Hi [REDACTED],

I believe Manny contacted you about two months ago regarding potentially, temporarily housing wild-caught voles at our [REDACTED] Reserve in [REDACTED]

by a graduate student from the [REDACTED]. We have determine that the most suitable structure for housing at the reserve would be a [REDACTED], for which our IACUC has recently reviewed and approved a housing SOP (attached). Would you still be willing to conduct a courtesy visit to the Reserve to help us determine if this [REDACTED] could be considered an outdoor facility? If you would let me know your availability, I would be more than happy to coordinate dates with our Reserve Director.

Thanks,
[REDACTED]

--

[REDACTED], UCSB

Santa Barbara, CA 93106-5062

(805)893-[REDACTED] (office)

(805)893-2005 (FAX)

<https://www.research.ucsb.edu/compliance/animal-subjects/>

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MEMORANDUM

TO:
FROM: UCSB INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC)
SUBJECT: IACUC Approval for SOP Review
DATE: 5/29/2019

The Standard Operating Procedure (SOP), *Terrestrial Housing SOP for*, describing the husbandry and care of animals housed in has been approved. The PI assures that all facility personnel will adhere to the procedures described in the SOP, including performing daily animal health observations and reporting sick or found dead animals to the Campus Veterinarian. A copy of the SOP was mailed electronically and/or is attached. Please carefully review the SOP with your students and staff and keep a copy in a location where it can be readily consulted by your co-workers.

The UCSB Animal Care and Use Program is accredited by the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC International) and complies with all federal and state regulations governing the humane care and use of laboratory animals, including the USDA Animal Welfare Act (Registration #: 93-R-0438), and our Assurance of Compliance with PHS Policy on Humane Care and Use of Laboratory Animals. (PHS Assurance # A3865-01).

Summary:

Terrestrial housing SOP for housing voles in

TERRESTRIAL ANIMAL FACILITY STANDARD OPERATING PROCEDURE **FOR [REDACTED]**

I. Purpose and Scope:

The aim of the proposed research at the field site is to live-trap voles to found a breeding colony at the [REDACTED]. Animals will be retained as they are caught, and so their time spent in the lab will vary. As trapping is short-term (~2 weeks), the maximum time any animal will spend in the lab will be 2 weeks.

II. Responsibilities:

- A. [REDACTED] will be responsible for ensuring compliance with the procedures described in this document, and for reviewing and updating this document annually, or as needed.
- B. [REDACTED] personnel will be responsible for reading and complying with the provisions herein.

III. General Animal Facility Housing Description:

A. Species

California vole (*Microtus californicus*)

B. Animal Facility Construction

Animals will be held in one of the [REDACTED] located at the [REDACTED]. [REDACTED] It was restored in 2009 to prevent structural collapse and has seismically improved foundation, siding and roof; however it remains a rustic building constructed of redwood and consists of a simple open floor plan with a sand floor substrate.

The stall we have identified as being most suitable for the project is 16' by 16' with two solid wooden walls with a sliding solid door that opens to the road, and two plank walls, one with a wooden gate that leads to the main open area of the [REDACTED] and the other gate that leads to another horse stall. Photos of the space are included in an attachment.

The floor of the stall consists of sand over hard-packed soil. There is an electrical outlet on the wall, and a light switch that operates a single 60-watt bulb in the rafters of the [REDACTED] stall. The nearest hose connection is 70 feet away.

C. Animal Facility Security

██████ maintains multiple controls over human access to the ██████. The first is in strictly limiting main gate access to those with legitimate business an approved use reservation made in advance. The second is in providing two on-site employees to maintain a security presence at the field station. A third level of security could be added at the ██████ by wrapping chains and locks around the gates and sliding ██████ door to prevent unauthorized entry.

Preventing access to the ██████ or ██████ stalls by pests, vermin and/or wild animals will be difficult if not impossible. However, the wild-caught Voles will be maintained in on top of a makeshift bench created out of sawhorses and plywood.

D. Primary Enclosures

Male-female pairs of voles will be housed in clean, collapsible PVC-coated wire cages. Each cage consists of five wire faces and one open face. The open face will be set atop a plastic tray. Each cage will be outfitted with shavings, cotton, and a PVC shelter. Voles will be provided water and food *ad lib*.

E. Stocking Density

Voles will be housed in male-female pairs, no more than two per cage.

F. Environmental Parameters

The ██████ does not have environmental control. If it is lit only by electric lights, we will keep voles on a photoperiod mimicking that in the ██████, turning on lights at dawn and off at dusk. Each cage will be provided with a PVC shelter and cotton to make into a nest, which will help voles to thermoregulate.

G. Environmental Enrichment and Social Housing

Voles will be housed in male-female pairs. The use of environmental enrichment (e.g. PVC pipe) will help eliminate fighting between animals. Animals that show prolonged behavioral patterns of fighting (e.g. squeaking, chasing) will be separated and paired with a different animal. In the event that an animal shows physical signs of fighting (e.g. small lacerations, over-grooming), we will separate the animals and pair them with different animals. In the case of more serious injuries, we will contact the vet or perform euthanasia onsite.

IV. Animal Care Procedures:

A. Daily Monitoring

Animals will be checked at least twice a day (dawn and dusk) 7 days per week. At this time, animals will be visually inspected for behavioral or physical abnormalities; appropriate measures will be taken if abnormalities are found (see section IIIG). Animals will also be fed and watered or have their cages changed as needed. There will be no variation in these procedures on weekends or holidays.

B. Veterinary Care

- Unexpected deaths, signs of illness, trauma, distress, or abnormal behavior must be reported to the Attending Veterinarian in a timely manner by phone (893-7344 or [REDACTED]) or email (manuel.garcia@ucsb.edu).

Voies will be housed in male-female pairs in order or receipt. Upon receipt of voies at the [REDACTED], animals will be quarantined as deemed appropriate by the [REDACTED] IACUC. During visual inspection, if animals show signs of physical distress (e.g. matted fur, hunched posture, unresponsive) or injury, they will be placed in a solitary cage and the vet will be contacted. Animals that show prolonged behavioral patterns of fighting (e.g. squeaking, chasing) will be separated and paired with a different animal. In the event that an animal shows physical signs of fighting (e.g. small lacerations, over-grooming), we will separate the animals and pair them with different animals. In the case of serious injuries or ailments or if deemed appropriate, we will perform euthanasia onsite.

C. Temperature

We will keep a thermometer in the [REDACTED] to monitor temperature. If temperatures fall below 50F, we will provide cages with extra cotton batting to make warmer nests. Each cage will be provided with a PVC shelter and cotton to make into a nest, which will help voies thermoregulate.

D. Humidity

We will keep a hygrometer in the [REDACTED] to monitor temperature and humidity.

E. Light Cycle

If it is lit only by electric lights, we will keep voles on a photoperiod mimicking that in the [REDACTED], turning on lights at dawn and off at dusk.

F. Feeding

Voles will be provided with lab rodent chow *ad libitum*. Food will be stored in a plastic container kept in a cool and dry place. During bi-daily inspections, animals will be topped off with food as needed. Food will be allocated from the plastic container into dishes in the home cage using serving spoons.

G. Watering

Voles will be provided with water *ad libitum* via a water dish or a water bottle. Water will be topped off as needed. The watering receptacle will be rinsed out and refilled every morning.

H. Substrate Changes

Voles will have their bedding changed once per week and “spot-cleaned” as necessary.

I. Cleaning and Sanitation

At the end of each day, we will wipe down bedding and debris from bench. Solid waste will be deposited into a trash bag, which will be tied off each evening to seal off odors. This trash bag will be placed in a metal trash can with a tight fitting lid, and will be disposed of once it is full.

J. Waste Disposal

There will not be waste-water produced.

Solid debris, including fecal matter, food waste, and carcasses, will be disposed of in regular trash.

K. Animal Identification

Upon capture, voles will be sexed and given a unique identifying ear tag (National Band & Tag Co). Each cage will be equipped with a cage card with the sex and ID tag number of each vole inside.

L. Recordkeeping

- Daily records are kept to document performance of the care and feeding procedures that are described in this SOP.
- Records of animal census are maintained.

- Records of general animal health information are maintained, including documentation of the performance of daily health observations, and identification and resolution of any animal health problems.

M. Transportation Procedures

Voles will be transported via aircraft carrier to [REDACTED], and then driven to the campus facilities (20 minute drive). Voles will be put in pairs into a special rodent carrier comprising 6 smaller containers inside one larger container for stability. Each container will have enough room that two animals can comfortably move inside. Food will be provided in excess in each container in case of delays. Wet (but not dripping) sponges, carrot pieces, and alfalfa will be provided to each space for water sources. Voles will arrive at the animal facility in [REDACTED] on the same day as shipping; however, we will provide extra food and multiple water sources in each container and small stores of extra food and water inside the larger container in case of delays.

N. Other (e.g., Use of Hazardous or Biohazardous Materials)

Voles are not among the most prolific rodent carriers for disease, but to help prevent zoonotic diseases, we will use latex gloves and clean lab surfaces and tools with ethanol or bleach in between uses.

Re: [REDACTED] tomorrow

Subject: Re: [REDACTED] tomorrow
From: IACUC Office <iacuc@lifesci.ucsb.edu>
Date: 6/7/2019, 9:37 AM
To: "[REDACTED] - APHIS" [REDACTED]

Hi [REDACTED],

Thank you for making the trip out to the reserve on Tuesday. I wanted to see if you had any recommendations or concerns on our use of this [REDACTED] to temporarily house Voles after their field collection and before their transportation to [REDACTED].

Thanks,
[REDACTED]

On 6/4/2019 8:26 AM, [REDACTED] - APHIS wrote:

Hi [REDACTED],

I'm all set with directions, thanks. I should be there between 10:45-11:00.

Thanks again,
[REDACTED]

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From: [REDACTED]
Sent: Monday, June 3, 2019 4:02:09 PM
To: [REDACTED] - APHIS
Cc: iacuc@lifesci.ucsb.edu
Subject: [REDACTED] tomorrow

Hi [REDACTED].

I'll be meeting with you tomorrow at [REDACTED] to look at the proposed vole storage space. Do you need directions? The gate code is [REDACTED]. Please come to the office (building with the blue roof). You can park right out front.

Thanks,
[REDACTED]

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