

ATTACHMENT 1

SOP 5 12 SOIL

- p 2, par 3 Change 3 1 to 3 2
- p 3, Sec 4 0,
references Add bullet for SOP 3 10
- p 7, Sec 6 2 1,
2nd bullet Add SOP 3 10 Do the SOPs call for monitoring with a PID (or HNu, OVA,
etc) and scintillation detector during excavation, soil, description and sample
collection? If so, state the SOP
- p 8, 1st bullet Delete last sentence beginning with "SOP 3 2 "
- p 10, 2nd bullet Include SOP 3 10 if deeper than 2 feet

SOP APPENDIX A SPECIES CODES

- p 4, class
MAMMALIA Add "order CHIROPTERA" and "Family VESPERTILLIONIDAE"
- | | |
|---------------------|---------------------------|
| Little brown myotis | Myotis lucifugas |
| Long-eared myotis | Myotis evotis |
| Fringed myotis | Myotis thysanodes |
| California myotis | Myotis californicus |
| Small-footed myotis | Myotis subulatus |
| Silver-haired bat | Lasionycteris noctivagans |
| Big brown bat | Eptesicus fucus |
- p 5, order
LAGOMORPHA
Family LEPORIDAE Add Nutall's cottontail (*sylvilagus nuttalli*)
- p 6, Family
CRICETIDAE Add Sagebrush Vole (*Lagurus cutratus*)
- p 7, order
CARNIVORA
Family CANIDAE Add Kit Fox (*Vulpes macrotis*)
- p 7, order
CARNIVORA
Family FELIDAE Add Mountain lion (*Felis concolor*)
- p 7, order
ARTIODACTYLA
Family CERVIDAE Add Wapiti (*Cervus canadensis*)

ADMIN RECORD

ADMIN RECORD

A-SW-000334

- p 8, class AVES Add Western Grebe
Family
POPICIPEDIDAE
- p 8, class AVES Add Green Heron (if different than Green-backed Heron)
Family AREDEIDAE Yellow-crowned Night Heron
- p 8, class AVES Add Snow Goose
Family ANATIDAE Ross Goose
- p 9, Family Add Sandhull Crane
RALLIDAE
- p 10, Family Add Northern Phalarope
SCOLOPACIDAE Baird's Sandpiper
- p 10, Family Add California Gull
LARIDAE Least Tern
- p 11, Family Add Marsh Hawk
ACCIPITRIDAE Goshawk
- p 11, Family Add GyrFalcon
FALCONIDAE
- p 12, Family Add Saw-whet owl
STRIGIDAE
- p 13, Family Add Common Flicker (red-shafted)
PICIDAE Common Flicker (yellow-shafted)
- p 13, Family Add Cassin's Kingbird
TYRANNIDAE Scissor-tailed Flycatcher
 Ash-throated Flycatcher
 Olive-sided Flycatcher
- p 14, Family Add Purple Martin
HIRUNDINIDAE
- p 15, Family Add Bewick's Wren
TROGLODYTIDAE
- p 17, Family Add Canada Warbler
EMBERIZIDAE Rose-breasted Grosbeak
 Pine Grosbeak

p 18, Family
EMBERIZIDAE

Add. Gray-headed Junco
Black-throated Sparrow (Is there a white-throated sparrow?)
Fox Sparrow
Baird's Sparrow
Sage Sparrow
Smith's Longspur
Snow Bunting
Orchard Oriole

Note that the above recommended additions are based on material available at the Pawnee National Grasslands near Greeley, Colorado. Copies of this material are attached. If evidence exists that these species are definitely not present at Rocky Flats, they should not be added to the existing list. However, if it is possible that these species may be present, they should be considered for inclusion on the existing list. Also, note that common names for birds may be different than those listed in the SOP Appendix for the same species. If so, both common names should be included.

SOP APPENDIX B WILDLIFE HABITAT CODES

p 2, Sec 4 0

The codes for stream/ditch and ponds should be expanded to be consistent with SOP 5 11. IDENTIFICATION OF HABITAT SITES. The stream/ditch should be subdivided between intermittent and persistent. Persistent streams/ditches should be subdivided between riffles, runs, and pools.

The ponds should be subdivided between littoral zone and open water.

A new category should be included for lakes/reservoirs, unless this will be included under ponds. Lakes/reservoirs should also be subdivided between littoral zone and open water.

SOP 5 13 FIELD SAMPLING

p 2, Sec 3 0

Change "One person" to "At least one individual"

p 4, Sec 6 0,
2nd sentence

Although toxicity testing is mentioned here, it receives no attention later in this SOP. The FSP should discuss protocol for obtaining and using abiotic media (water, sediment, soil) in laboratory toxicity testing. The protocol should include minimizing the loss of VOCs.

p 5, 1st bullet,
after "The
Following "

Change "Contaminants of Concern" to "Preliminary Contaminants of Concern"

- p 6, par 1 Add the following sentence Abiotic and biotic sampling should be synoptic
- p 10, Sec 6 1 3 A paragraph should be incorporated regarding habitats at Standley Lake, Great Western Reservoir and Mower Reservoir
- p 14, Sec 6 2,
par 1,
1st sentence Deviations from SOPs are sometimes necessary The SOP should state that deviations must be approved by the EG&G project manager and environmental evaluation coordinator
- p 14,
last sentence The phrase "greatest number of samples possible within the field and analytical budget" alarms me Please find a scientifically valid way to estimate the sample size if preliminary data are not available
- p 15, par 2,
1st sentence What is the technical justification for "a minimum of ten samples"?
- p 17, Sec 6 5 Note that the format for the FSP in the SOP deviates markedly from that given on p 2-17 of the 1988 EPA document entitled "Guidance For Conducting Remedial Investigations and Feasibility Studies Under CERCLA" Although the EPA gives a "suggested format" for a FSP, I see no reason not to follow it Revise the FSP outline in the SOP to more closely resemble the EPA suggested format Also, note that the SOP FSP outline does not include sample designation, sample laboratory analysis and toxicity testing These should all be included in the FSP outline