

EQUIPMENT USED FOR THE CAPTURE, HANDLING, AND TREATMENT OF OILED SEA OTTERS

I. SEA OTTER CAPTURE

Equipment and supplies for one sea otter capture kit. Each capture boat should have one kit. The quantity of each item is shown in parentheses.

1. Kennel cages for transport (10)
2. Long handled dip nets (4)
3. Long handled tongs (5)
4. Plastic totes for thawing frozen food (2)
5. Knives/cutting board (1 board/2 knives)
6. Rubber gloves (25)
7. Ziploc® bags (200)
8. Heavy leather gloves (4)
9. Stuff bag (1)
10. Squeeze box (1)
11. Spray bottles (3)
12. Ice chest (1)
13. Electronic scale (100 kg range) for weighing otters (1)
14. Chlorine bleach (1 gal)
15. Chlorhexidine (1 gal)
16. Scrub brushes (2)
17. Towels (2 dozen)
18. Dawn™ detergent (1 gal)
19. Sponges (2)
20. Record forms multi-sheet, pressure paper (100)
21. Indelible markers (10)
22. Clip boards (2)
23. Flipper tags (100)
24. Flipper tag tool (2)
25. Duct tape (2 rolls)

I. SEA OTTER CAPTURE *(Continued)*

26. First aid kit (1)
27. Flashlights (3)
28. Hair dryers (2)
29. Digital thermometer with flexible probe (1)
30. Cargo totes with lids for storing the kit (3)
31. Tangle nets (150 ft long, 15 ft deep, 10 in stretch mesh, buoyant rope, 1 in nylon rope instead of a lead line) (2)
32. Anchor lines for tangle nets (A-3 buoy, 150 ft of 3/8 in nylon rope, 14 lb anchor, 5/16 in galvanized shackles, 6 ft galvanized chain) (2)
33. Special note: the capture vessel should have a freezer to store 100 lbs of sea food for the otters.

II. TRIAGE AND STABILIZATION

Equipment and supplies for a sea otter triage and stabilization kit. The quantity of each item is shown in parentheses.

1. Critical care cages with trays (see Figure 7.1) (10)
2. Chest freezer (200 cubic feet) (1)
3. Kennel cages for transport (series 400) (15)
4. Long handled dip nets (5)
5. Stainless steel bowls (10)
6. Long handled tongs (5)
7. Food scale (1)
8. Small plastic totes for thawing frozen food (10)
9. Knives/cutting board (2)
10. Rubber gloves (50)
11. Ziploc® bags (200)
12. Leather gloves (welding) (5)
13. Stuff bags (2)
14. Squeeze box (1)
15. Spray bottles (5)
16. Small ice chest (2)
17. Electronic scale for weighing otters (1)
18. Chlorine bleach (1 gal)
19. Chlorhexidine (1 gal)
20. Scrub brushes (3)
21. Towels (3 dozen)
22. Dawn™ detergent (1 gal)
23. Hoses (2)
24. Sponges (5)
25. Rain coat/pants (5)
26. Record forms (50)
27. Indelible markers (10)
28. Clip boards (10)

II. TRIAGE AND STABILIZATION *(Continued)*

29. Flipper tags (50)
30. Cork board (1)
31. Duct tape (5 rolls)
32. First aid kit (1)
33. Flashlights (2)
34. Hair dryers (5)
35. Marine radio (1)
36. Cellular phone (1)
37. Veterinary kit
 - Lactated Ringer's Solution (12 liters)
 - Normal saline (12 liters)
 - 5% Dextrose/Lactated Ringer's (12 liters)
 - 5% Dextrose (12 liters)
 - Sterile water for injection (1 liter)
 - Pedialyte™ (12 liters)
 - Amoxicillin (10 gm)
 - Keflex™ (10 gm)
 - B-complex with B-12 (500 ml)
 - Vitamin E/Se (500 ml)
 - Dexamethasone (500 ml)
 - Cimetidine (30 gm)
 - Carafate™ (100 gm)
 - Ophthalmic solution (60 ml)
 - Irrigating eye wash (16 oz)
 - Cotton balls (1 pkg)
 - Isopropyl alcohol (64 oz)
 - Hivite™ drops (30 ml)
 - Cal-De-Phos™ Mineral Supplement
 - Cod liver oil (100 ml)
 - Syringes (1 ml w/o needle) (100)
 - Syringes (3 ml w 20 g x 1.5 in needle) (100)
 - Syringes (12 ml) (100)
 - Syringes (20 ml) (100)
 - Syringes (60 ml) (50)
 - Needles (19 g x 1.5 in) (100)
 - Needles (16 g x 1.5 in) (100)
 - Needles (20 g x 1.5 in) (100)
 - IV administration sets (20)
 - Exam gloves (latex, nonsterile) (100)
 - Thermometers – rectal (6)
 - Nolvosan™ solution (1 gal)
 - Nolvosan™ scrub (1 gal)
 - Betadine™ solution (1 pt)

II. TRIAGE AND STABILIZATION (*Continued*)

- Blender (1)
- Red rubber catheter (16 Fr) (6)
- Stethoscope (1)
- Plastic case (2)
- Vacutainers (red top) (100)
- Vacutainers (lavender top) (100)
- Vacutainers (grey top) (100)
- Vacutainers (green top) (100)
- Blood glucose reagent strips (1 pkg)
- Blood urea nitrogen reagent strips (1 pkg)

III. VETERINARY LABORATORY

Equipment and supplies for a veterinary laboratory in a regional rehabilitation center.

Equipment

1. Refrigerator (large capacity)
2. -10 °C freezer
3. -70 °C freezer
4. Microbiological incubator
5. Temperature controlled bath
6. Coulter counter
7. Blood chemistry analyzer (Corning, Kodak)
8. Binocular microscope with 4x, 10x, 40x, oil oculars and camera mount (Nikon)
9. Clinical centrifuge
10. Hematocrit centrifuge
11. Refractometer (temperature compensated)
12. Flame photometer (Na/K analysis)
13. Blood gas analyzer
14. pH meter
15. White blood cell differential counter (6 key tally counter of WBC)
16. WBC counter (single stroke key tally for total WBC)
17. Water purification system (reverse osmosis and deionization)
18. Test tube rocker
19. Glucometer™
20. Pulse oximeter
21. EKG portable (LifePac™)
22. Medical oxygen tank and regulator
23. Warm water circulating pad
24. Blender

III. VETERINARY LABORATORY (*Continued*)**Supplies**

1. Test tube racks
2. Microscope slide boxes for storage of fixed slides
3. Microscope slide markers (indelible)
4. Microscope slides (frosted end and plain)
5. Microscope slide coverslips
6. Fecalalyzer test kit for conducting fecal test
7. Fecal flotation solution
8. Hemacult test kits to test for blood in the feces
9. Isopropyl alcohol (70%)
10. 10% formalin (for fixing tissue)
11. Poly vinyl alcohol (PVA, preservative for giardia, and other parasites)
12. Methyl alcohol
13. Stains for differential blood smears:
 - Wright stains #1, #2 (Eosin), #3 (blue), #4 (clear)
 - methylene blue (1%)
 - methylene blue (1%)
 - Giemsa
 - Sudan 3
14. Gram stain kit for staining bacteria, fungi, and yeast
15. Coplin jars with lids for holding blood stains
16. Novalsan™ solution (disinfectant)
17. Spray fixative for fixing blood smears
18. Parafilm
19. Bunsen burner
20. Transfer pipettes (glass and plastic)
21. Hematocrit tubes (plain and heparinized), tube reader and tube sealant
22. Centrifuge tubes
23. Blood collection tubes
 - Red topped 5 cc
 - Red topped 10 cc
 - Purple topped 2 cc
 - Royal topped 7 cc
 - Grey topped 5 cc
 - Serum separator tubes 10 cc
24. Laboratory notebooks
25. Examination gloves (latex, nonsterile)
26. Office supplies
27. Inoculating loop for making smears for gram staining
28. Unopette WBC/platelet counters for white cell counts

III. VETERINARY LABORATORY (*Continued*)

29. Tissue forceps
30. Staining rack
31. RBC sedimentation rate tubes and rack
32. Safety goggles
33. Culterettes (aerobic and anaerobic)
34. Blood culture bottles
35. Lens paper
36. Kimwipes™
37. Chlorhexadine scrub
38. Povidone iodine solution
39. Lactated Ringers solution (1 liter bags)
40. Normal saline solution (1 liter bags)
41. 5% dextrose/normal saline (1 liter bags)
42. 5% dextrose (1 liter bottles)
43. Sterile water for injection
44. Pedialyte™ (500 ml bottles)
45. Enrofloxacin (22 mg/ml)
46. Amoxicillin (2 gm bottles)
47. Cephalin injection
48. B-complex with B12 (100 ml bottles)
49. Seletoc™ (Vit E/Se) (100 ml)
50. Dexamethasone (4 mg/ml)
51. Cimetidine (300 mg tablets)
52. Sucralfate™ (1 gram tablets)
53. Ivermectin
54. Praziquantel
55. Stanazolol
56. Mannitol
57. Furosimide
58. Dantrolene
59. Neomycin tablets
60. Theodur SR™ (aminophyllin)
61. Diazepam (5 mg/ml)
62. Lidocaine™ (2%)
63. Propanolol
64. Sodium bicarbonate
65. Ophthalmic solution (Bacitracin)
66. Irrigating eye wash (8 oz)
67. Cotton balls
68. Hivite™ drops
69. Cal-De-Phos™ Mineral Supplement
70. Cod liver oil

II. VETERINARY LABORATORY *(Continued)*

- 71. Syringes
 - 1 ml (TB) w/o needle (100/box)
 - 3 ml w 20g x 1 1/2" needle (100/box)
 - 12 ml (50/box)
 - 20 ml (50/box)
 - 60 ml (20/box)
- 72. Needles
 - 19 g x1 1/2" (100/box)
 - 16 g x 1 1/2" (100/box)
 - 20 g x 1" (100/box)
- 73. IV administration sets
- 74. Red rubber catheter (16 Fr)
- 75. Blood glucose reagent strips
- 76. Blood urea nitrogen reagent strips
- 77. Necropsy kit
 - Formalin solution (10%)
 - Scalpel handle
 - Scalpel blades
 - Tissue forceps
 - Hemostatic forceps
 - Dissecting scissors
 - Bone saw
 - Specimen jars (assorted sizes)
 - Toxicology specimen vials (2 oz)
 - Xylene
 - Acetone
 - Dichloromethane
 - Aluminum foil (heavy duty)
 - Surgeons gloves

IV. SEA OTTER HUSBANDRY

General equipment and supplies for husbandry. Numbers of each item will depend on the number of animals to be treated.

Feeding

Food freezers
 Stainless steel bowls
 Long handled tongs
 Food scales
 Thawing tubs/totes
 Knives/cutting boards
 Rubber gloves
 Chipped ice maker/storage
 Food storage bags

Restraint/transport

Leather welders' gloves
 Large dip nets
 Stuff bags
 Squeeze cage
 Shipping kennels with racks
 Slide top cage
 Spray bottles
 Insulated ice chest
 Platform or spring scale

Sanitation

Chlorine bleach
Chlorhexidine solution
Pool nets (debris scoop)
Scrub brushes/towels
Foot baths
Rubber gloves/boots
Dawn™ detergent
Hoses
Rain coat/pants

Safety

First aid kit
Life jacket/ring
Flashlights
Two way radio

Recordkeeping

Record forms
Indelible/waterproof pens
Clipboards
Toe tags
Binoculars
Message/location boards
Waterproof covers
Copy machine
Duct tape (temporary ID)

Supportive care/other

Hair dryers/fans
Feeding tubes/mouth gag
Net mending equipment
Rectal thermometer