

Riverbanks Zoo's Elephant Profile

Scientific Name: *Loxodonta africana*

Common Name: African Elephant

House Name: Belle

Acquisition Date: December 13th, 2001

Sex: Female **Birth date:** May 1981

Birth Place: Zimbabwe

Weight: 8640lbs.

Transaction History:

Date	Type	From	To
03-05-1983	Capture	Zimbabwe	Columbus
12-13-2001	Transfer	Columbus	Riverbanks

Recurring Medical Problems and Current Physical Condition:

- Periodic stiffness in left rear leg. X-rays suspected a torn or stretched patella ligament. Treat with hydrotherapy as needed.
- Left tusk socket flushed BID
- During extreme summer heat, Belle has experienced edema swelling. Keepers treat her with cold/hot water hydrotherapy and stretching

Socialization, Temperament, and Behavior History:

- Belle socializes well with all animals in the herd. Belle currently displays separation anxiety behaviors if enclosed in the indoor holding facility without the rest of the herd.

Management System:

- Managed utilizing protected contact.
- Belle has been conditioned to respond to head, hip and foot targets. She is very compliant performing daily husbandry behaviors such as, body positions and foot/ear presentations.
- No ankus or chains are utilized at this time.

Types of Reinforcement:

- Desirable behaviors are reinforced with produce, bread, sweet feed, alfalfa hay, warm water, elephant supplement and verbal praise.
- Non-compliant and undesirable behaviors are punished utilizing a "no-response" consequence, which is a temporary loss of reinforcement and interaction.

Breeding Potential:

- Belle is no longer a candidate for breeding. Prolactin treatments stopped on researcher's request due to no change in acyclic activity.
- Hormonal blood values are currently being obtained weekly
- Belle is compliant in entering the ERD and remaining in there for various amounts of time. She is also compliant with placement of leg restraints and keepers walking around her while in ERD.
- Keepers are currently conditioning Belle to tail manipulation and handling.

Updated January 2007

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1 Apr 2005	Foot management	Penny, Belle, & Tumpe feet checked to determine what trimming needs to be done next week
9 Apr 2005	Foot management	Filed toenails of both front feet
11 Apr 2005	Animal management note	0.3 morning training session. In afternoon training session at Elephant Pool, all 3 elephants placed both feet in the water.
19 Apr 2005	Foot management	Belle checked feet & will trim at later date
30 Apr 2005	Foot management	Filed toe nails & trimmed foot pads on both back feet
3 May 2005	Animal management note	Penny, Belle, & Tumpe shifted into barn mid-afternoon to allow Keepers to clean dung piles & to place new enrichment on exhibit. Belle was slow to shift at first, other 2 shifted in quickly. Entire process took 35 minutes & went very smoothly for the first time. 0.3 received kale on exhibit.
4 May 2005	Behavior note	In the afternoon, she went into exhibit pool up to an inch below her eyes.
5 May 2005	Animal management note	Penny, Belle and Tumpe had morning training sessions. 0.3 shifted into barn mid-afternoon to clean yard & place fresh browse on exhibit. Elephants shifted well.
6 May 2005	Enrichment	Received browse in AM & a hose down on exhibit in PM
8 May 2005	Behavior note	Belle went all the way into the exhibit pool. She seemed to enjoy going under the water & throwing water with her trunk
9 May 2005	Enrichment	Received treat bags filled with produce
11 May 2005	Foot management	Trimmed back feet and filed nails
12 May 2005	Behavior note	Penny, Belle, & Tumpe's shifting went well in the afternoon. Belle slow to shift in and entered chute when Keepers were trying to shift Penny out. Penny entered into the barn & went into the ERD, very hesitant but productive. Elephants were hosed while inside.
17 May 2005	Animal management note	Mid afternoon shift conducted with Penny, Belle, Tumpe. Browse placed on exhibit & elephants hosed off in barn. Everything went very smooth.
19 May 2005	Animal management note	0.3 received tulip popular in PM for enrichment. Midafternoon elephant shift went well. Elephants hosed. Shifted in early and shifted out for after hours event.
31 May 2005	Behavior note	Belle not complaint during mid-day shift, took 25 minutes for her to shift into 3rd stall. Produce was scattered on exhibit and then shifted Penny, Belle, & Tumpe onto exhibit. Penny put in the paddock, let other 2 out in front of her and then let her out.
1 Jun 2005	Foot management	Front feet trimmed and nails filled
3 Jun 2005	Animal management note	Penny, Belle and Tumpe shifted in early to service yard and to place browse on exhibit. 0.3 were then shifted back on exhibit for after hours event
5 Jun 2005	Animal management note	0.3 had a pool training session in afternoon. Belle went completely under and played in the water for 15 minutes.
15 Jun 2005	Animal management note	Mid-day shift of elephants. Yard serviced and enrichment placed on exhibit. Elephants were hose while in the barn.
17 Jun 2005	Foot management	Belle had both back feet trimmed and filed.
5 Jul 2005	Foot management	Belle had both front feet trimmed and nails filed.
13 Jul 2005	Animal management note	AM training session in barn & 4PM demonstration/ training session on exhibit .
24 Jul 2005	Animal management note	0.3 elephant shiftingis much improved
26 Jul 2005	Foot management	Belle's back feet trimmed & toe nails filed.
3 Aug 2005	Medical note	Belle's edema treated with warm water.
4 Aug 2005	Medical note	Belle's edema increased in size, treating twice a day with cold water
5 Aug 2005	Foot management	Belle's back feet trimed & toenails filed.
5 Aug 2005	Medical note	Her edema looks about the same & was treated with cold water.
6 Aug 2005	Medical note	Belle's edema treated with cold water, appears to be the same size.
7 Aug 2005	Medical note	Edema looks the same, cool water treatment.
8 Aug 2005	Medical note	Edema looks much smaller, continuing to treat area with cool water.
10 Aug 2005	Medical note	Belle's edema treated with cold water, swelling has gone down slightly. Staff to continue with cold water treatments BID.
11 Aug 2005	Medical note	Belle received cold water treatment BID on her edema which looks the same.

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12 Aug 2005	Medical note	Her edema treated BID with cold water, size has not decreased.
12 Aug 2005	Foot management	7031 Belle trimmed front feet.
12 Aug 2005	Enrichment	Given browse
13 Aug 2005	Medical note	Belle's edema decreased in size, continuing with cold water treatments
14 Aug 2005	Medical note	Edema treated with cold water two times.
15 Aug 2005	Medical note	Continuing to treat her edema on a daily basis until further notice.
17 Aug 2005	Medical note	Belle's edema treated, appears to be improving
20 Aug 2005	Medical note	Treated edema which is smaller in width but still hangs down quite a bit.
20 Aug 2005	Animal management note	Daily public demonstrations with 0.3 elephants Penny, Belle & Tumpe ended today so that elephant staff will have more time to train & prepare Penny for her AI procedure. AM training session for Penny, Belle & Tumpe
22 Aug 2005	Medical note	Edema area hosed with cool water
23 Aug 2005	Enrichment	Giraffe and elephant received enrichment in PM
24 Aug 2005	Animal management note	Unless otherwise noted, 0.3 elephants SJ1899 Penny, 7031 Belle & 7336 Tumpe are trained in the morning before going onto the exhibit. At mid day, they are shifted off exhibit so that the yard can be serviced and enrichment added.
26 Aug 2005	Foot management	Trimmed and filed both front feet
26 Aug 2005	Animal management note	AM training session with Penny, Belle & Tumpe. Attempted mid-day elephant shift but unsuccessful. Belle uncooperative, so she was directed back onto the exhibit and the door shut behind her, ending the session
27 Aug 2005	Animal management note	Mid-day elephant shift. Belle slow to shift, door closed for another try. Sent Tumpe in with her the second time which seemed to make situation worse. Next time, Keepers will try to send Penny in with Belle. Belle did respond to the time out, sending another elephant in after her was an additional reward.
27 Aug 2005	Enrichment	Produce hidden on elephant exhibit mid-day
28 Aug 2005	Enrichment	Elephants hosed & enrichment placed on exhibit
1 Sep 2005	Enrichment	Given sweet gum on exhibit and animals hosed off in barn
2 Sep 2005	Behavior note	Mid-day elephant shift. Belle stopped in the chute and would not proceed. Closed her in the chute for 4 minutes. Reopened the barn and walked her through the chute into the barn with heavy reinforcements, worked well
3 Sep 2005	Medical note	Belle's edema swelling seems to be completely gone
3 Sep 2005	Enrichment	Tulip-poplar placed on exhibit for enrichment & elephants hosed.
4 Sep 2005	Enrichment	Enrichment placed on exhibit and elephants hosed.
5 Sep 2005	Enrichment	Enrichment placed on exhibit and elephants hosed.
6 Sep 2005	Enrichment	Tulip tree placed on exhibit for enrichment
10 Sep 2005	Enrichment	Bamboo on elephant exhibit; cajun spice sprinkled on hay in the morning
11 Sep 2005	Animal management note	Afternoon training session with elephants
13 Sep 2005	Foot management	Trimmed both front and both back feet
15 Sep 2005	Animal management note	Elephants shifted in to barn after lunch to service yard. Holes were filled holes and yard raked.
19 Sep 2005	Enrichment	Received ice treat
21 Sep 2005	Animal management note	Due to emergency medical procedure on 0.1 zebra SJ1524 Senanga, elephants and giraffes were shifted in early
29 Sep 2005	Animal management note	0.3 elephants disassembling hot grass on exhibit
30 Sep 2005	Foot management	Trimmed Belle's back and front feet today
1 Oct 2005	Animal management note	More hot grass found on elephant exhibit. Animals on exhibit after dark for an after hours event
1 Oct 2005	Enrichment	Received sweet gum browse.
2 Oct 2005	Enrichment	Afternoon food toss for elephants
3 Oct 2005	Animal management note	0.3 SJ1899 Penny, 7031 Belle & 7336 Tumpe- one or all chewed on small drop cord, origin of drop cord not found

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4 Oct 2005	Animal management note	Continuing to find pieces of hot grass on elephant exhibit
5 Oct 2005	Animal management note	Elephants pulled more hot grass pulled from exhibit
6 Oct 2005	Animal management note	Hot grass was removed from exhibit & growth trimmed back from the top ridge of wall.
6 Oct 2005	Animal management note	0.3 elephants on exhibit until 9 PM for an after hours event
8 Oct 2005	Animal management note	0.3 elephants on exhibit until 10 PM for an after hours event
10 Oct 2005	Animal management note	Bamboo placed on exhibit for 0.3 elephants, on exhibit late due to after hours event
17 Oct 2005	Enrichment	Elephants received ice treats
18 Oct 2005	Enrichment	Elephants received banana and sugar cane on exhibit
21 Oct 2005	Foot management	Trimmed and filed nails on both Belle's back feet
25 Oct 2005	Enrichment	Received banana leaves and stalks on exhibit
25 Oct 2005	Foot management	Trimmed and filed nails and pad on front and rear feet. Bruise on pad of left back foot, will continue to monitor
26 Oct 2005	Enrichment	Received banana trees on exhibit
28 Oct 2005	Foot management	Continuing to monitor Belle's bruised pad on left rear foot, which appears to be getting better. Color looks lighter and softness of area has decreased.
28 Oct 2005	Enrichment	Food toss to elephants on exhibit
28 Oct 2005	Animal management note	Keepers checked area behind retaining wall on elephant exhibit for any weaknesses, no problems noted
31 Oct 2005	Enrichment	Received pumpkins
1 Nov 2005	Foot management	Minor trimming on Belle's back feet
2 Nov 2005	Enrichment	New log placed on exhibit
4 Nov 2005	Enrichment	Pumpkins and browse (mimosa and bamboo) on exhibit for enrichment.
4 Nov 2005	Animal management note	Elephants on exhibit tonight due to after hours event.
10 Nov 2005	Enrichment	Elephants received enrichment bags in PM
11 Nov 2005	Enrichment	Bamboo and pumpkins placed on exhibit and produce hidden around the exhibit.
11 Nov 2005	Animal management note	0.3 elephants out late for after hours event
13 Nov 2005	Enrichment	Received pumpkins for enrichment
17 Nov 2005	Enrichment	Received ice treats
18 Nov 2005	Research Study	Research study by Liz von Muggenthaler conducted on elephant exhibit today
18 Nov 2005	Medical note	Staff received report of elephant eating electrical cord from Christmas decorations. It has been reported that either Belle or Tumpe consumed it. Keepers will monitor.
19 Nov 2005	Medical note	0.3 elephants again reported eating Christmas cords. Keepers continue to monitor them and fecal their output. Receptacles are too close to exhibit, work order put in to have it removed or moved to new location. Dr. Benson & Dr. Moore notified.
30 Nov 2005	Animal management note	Keepers performed demonstration behaviors on elephant exhibit with Penny, Belle & Tumpe
5 Dec 2005	Enrichment	Large sycamore tree put in elephant exhibit for scratching post for Penny, Belle & Tumpe.
6 Dec 2005	Foot management	Light trim and filed nails on both front feet
9 Dec 2005	Enrichment	Elephants received bamboo on exhibit.
9 Dec 2005	Animal management note	Elephants on exhibit tonight due to an after hours event
14 Dec 2005	Animal management note	Due to cold weather, elephants shifted off yard at lunch time
15 Dec 2005	Animal management note	All animals inside today due to cold, rainy weather.
18 Dec 2005	Animal management note	Elephants inside due to cold weather. Received hay sprinkled with different spices & listened to radio
29 Dec 2005	Foot management	0.1 Elephant 7031 'Belle' trimmed and filed back right toe nails
30 Dec 2005	Foot management	Trimmed back right foot and filed nails.
1 Jan 2006	Enrichment	Elephants recieved produce hidden on exhibit.
5 Jan 2006	Animal management note	Elephants brought in early to service the exhibit, drain and clean the pool
14 Jan 2006	Enrichment	Food toss on elephant exhibit and pine tree given in stalls

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17 Jan 2006	Animal management note	Penny, Tumpe & Belle were given TB test during training session
20 Jan 2006	Enrichment	Food toss to elephants on exhibit & food hidden in tree
21 Jan 2006	Foot management	Belle's rear feet trimmed
23 Jan 2006	Animal management note	Belle seen behind boulders at pool end of the exhibit.
24 Jan 2006	Enrichment	Elephants received food toss on exhibit
26 Jan 2006	Enrichment	PM produce toss on exhibit to elephants.
27 Jan 2006	Foot management	0.1 Elephant 7031 'Belle' trimmed front feet and filed nails.
27 Jan 2006	Enrichment	Received produce, spices, etc in bags on exhibit in PM
28 Jan 2006	Enrichment	Keepers made enrichment toy for elephant exhibit
2 Feb 2006	Enrichment	Spices placed on elephant exhibit and produce hidden during mid-day shift
3 Feb 2006	Enrichment	0.3 received onion spice and molassas placed on elephant exhibit in AM. More hay given out at 11:00 and paddock opened up at lunch time. Elephants received paper bags with produce pieces, spices, bread, jam and hay in PM
4 Feb 2006	Enrichment	Pine given to elephants in the afternoon on exhibit
5 Feb 2006	Enrichment	Elephants given radio music for audio stimulation in backup in AM and pine (remaining from yesterday PM) on exhibit in AM. Small amounts of mashed potato smeared around exhibit in AM. Bamboo on exhibit in PM.
10 Feb 2006	Enrichment	Elephants- pine on exhibit in AM and PM
10 Feb 2006	Physical condition	Belle weighs 4036 kg; an increase of 73 kg since last weighed on 5-4-05
11 Feb 2006	Enrichment	Elephants received onion spice on their hay this morning
12 Feb 2006	Enrichment	Elephants received Valentine treat boxes and a food toss on exhibit.
14 Feb 2006	Medical note	No longer drawing blood from Penny every day, just on Thursdays, until further notice
18 Feb 2006	Foot management	Trimmed foot pad and filed nails on both back feet
21 Feb 2006	Medical note	Penny, Tumpe & Belle first of three TB test completed
23 Feb 2006	Medical note	Second out of three TB tests; weekly blood samples submitted
23 Feb 2006	Enrichment	Elephants given bamboo stems on exhibit in PM
24 Feb 2006	Animal management note	ERD training in morning and mid-day for Penny and Belle
25 Feb 2006	Medical note	Penny, Belle & Tumpe had final TB testing
28 Feb 2006	Foot management	Trimmed Belle's front feet
28 Feb 2006	Enrichment	In PM, Elephants received sandwich-sized paper treat bags on exhibit
5 Mar 2006	Enrichment	Elephants received bamboo on exhibit.
9 Mar 2006	Enrichment	Elephants received pine browse on exhibit AM and PM
11 Mar 2006	Research Study	Researchers placed urine samples on elephant exhibit in AM
14 Mar 2006	Research Study	Researchers placed urine samples on elephant exhibit in AM
14 Mar 2006	Foot management	Trimmed both Belle's back feet and filed nails
16 Mar 2006	Animal management note	To prevent elephants from roaming by the speakers and perimeter fence, Keepers moved the boulder back into place along perimeter of elephant exhibit
17 Mar 2006	Foot management	Trimmed both front feet and filed nail
17 Mar 2006	Enrichment	Elephants received sweet gum logs placed on exhibit at afternoon shift
18 Mar 2006	Enrichment	Food toss to elephants on exhibit
18 Mar 2006	Animal management note	Completed cutting back brush from hot wire fence line behind elephant exhibit
19 Mar 2006	Enrichment	Elephants hosed off in afternoon, received produce around exhibit and onion powder on hay.
21 Mar 2006	Animal management note	Plants trimmed away from hot wire in front of elephant exhibit
23 Mar 2006	Animal management note	Elephant pool drained and cleaned. In PM, yard was graded, holes filled in, and removed dirt accumulated around shift doors.
24 Mar 2006	Enrichment	Elephants received cabbage scattered and hidden on exhibit
25 Mar 2006	Enrichment	Elephants received cabbage wedges and regular produce scattered and hidden on exhibit in PM

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29 Mar 2006	Animal management note	Secondary log barrier in elephant yard by pool has been pushed passed wooden post that was holding it and rolled down to primary barrier. Elephants have easy access to back area now. Primary barrier not compromised. Audio speaker not touched at this point
4 Apr 2006	Animal management note	Maintenance Department placed a cable by elephant pool to deter animals from entering back area
6 Apr 2006	Identification	7031 Belle has no tusks SJ1899 Penny has 1 tusk 7336 Tumpe has 2 tusks
7 Apr 2006	Foot management	0.1 Elephant 7031 trimmed all four feet this morning.
9 Apr 2006	Enrichment	Elephants received food and ice treats on exhibit.
12 Apr 2006	Enrichment	Food toss on elephant exhibit
13 Apr 2006	Enrichment	Elephants received ice treats in pm
17 Apr 2006	Animal management note	Elephants will be left out all night with access to paddock and stall 1
19 Apr 2006	Animal management note	Elephants shifted in at 4PM for new evening shift. The new shift worked really well, Keepers have more time to complete both giraffe and elephant exhibits. 7 bales placed out for elephants- two in paddock, two in stall #1 and three on exhibit
20 Apr 2006	Animal management note	Elephants evening shift at 4PM. 6.5 bales put out-two on exhibit, two in paddock and 2.5 in stall #1. Keepers will start work at 8:00am instead of 8:30 during the new elephant schedule
21 Apr 2006	Medical note	Elephants Penny, Tumpe & Belle received first part of physical exams today. Dr. Benson felt lymph nodes, feet, ears, eyes, and mouths.
22 Apr 2006	Foot management	0.1 Elephant 7031 Belle trimmed back feet and filed nails
25 Apr 2006	Foot management	Belle received foot care on both front feet
26 Apr 2006	Animal management note	Belle and Penny had training sessions this morning
26 Apr 2006	Animal management note	Penny, Belle & Tumpe given access to exhibit, paddock and three stalls due to threat of severe weather. All hay was placed inside the barn
27 Apr 2006	Animal management note	Elephants were shifted in at 2:30 & hosed off. Two bales of hay were placed on exhibit. Only two shifts today. The remaining 4.5 bales will be put in the paddock and stall #1
28 Apr 2006	Animal management note	Elephants were shifted in at 2PM. Two bales and browse were placed on exhibit & elephants shifted out. Remaining four bales were placed in the paddock and stall #1
12 May 2006	Medical note	Belle received a tetanus injection in her left shoulder
13 May 2006	Foot management	Trimmed and filed both of Belle's back feet
13 May 2006	Enrichment	Elephants received sweet gum on exhibit. Food toss and spices on exhibit in afternoon
16 May 2006	Foot management	Filed and trimmed both of Belle's front feet
17 May 2006	Animal management note	0.3 Penny, Belle and Tumpe were trained this morning
17 May 2006	Enrichment	Browse given to elephants
18 May 2006	Enrichment	Elephants received pine on exhibit
19 May 2006	Medical note	0.2 Elephants SJ1899 Penny & 7031 Belle received rabies injections.
20 May 2006	Enrichment	Yesterday & today, produce was hidden on elephant exhibit
20 May 2006	Animal management note	Window fans were set up in the elephant barn
24 May 2006	Enrichment	Yesterday & today, received sweet gum
26 May 2006	Animal management note	0.2 Elephants 7031 Belle and SJ1899 Penny were trained this morning. In PM, 0.3 elephants given 3 stalls due to high possibility of severe weather
27 May 2006	Animal management note	0.1 7336 Tumpe and 7031 Belle were trained this morning
1 Jun 2006	Medical note	Keeper staff collected a routine blood draw from 0.3 Elephants SJ1899 Penny, 7031 Belle and 7336 Tumpe which was turned into the Hospital. It was the first of the month full chemistry panel.
1 Jun 2006	Medical note	7031 Belle appears to be stiff legged on left rear leg. She ate diet normal and behavior appears to be normal. Vet informed and keepers will monitor.
2 Jun 2006	Medical note	Belle is cautiously bending her left rear leg today. Keepers will continue to monitor and exercise the leg. Vets notified
3 Jun 2006	Medical note	This AM, Belle shifted in off of the exhibit with a stiff left rear leg, appears to be swollen behind knee.



Keepers applied cold water therapy to the leg & administered pain medication. A red and purple top blood draw was taken to check for elevated white blood cell counts. Pain medication will be continued for one more day; as well as, hydrotherapy & exercise to keep her loose. Dr. Moore checked on her this morning.

4 Jun 2006	Medical note	Belle took 98% of the pain medication. A cold water hydro therapy was done twice today on her left back foot and the foot was exercised during her training session.
6 Jun 2006	Animal management note	In PM, 0.3 elephants were off exhibit due to work being done on the exhibit.
7 Jun 2006	Animal management note	In AM, 0.3 SJ1899 Penny, 7031 Belle and 7336 Tumpe were trained. Keepers worked on elephant yard with the tractor all afternoon and the elephants were inside
9 Jun 2006	Foot management	Both of Belle's front feet were trimmed and filed.
14 Jun 2006	Foot management	SJ1899 Penny, 7031 Belle and 7336 Tumpe were trained & all of their feet were examined
15 Jun 2006	Behavior note	0.1 Elephant 7031 Belle went behind the berm of the elephant exhibit (behind the cement "rocks" on the back of the exhibit). She broke the cable barrier and left the exhibit and was found in the trees. Maintenance replaced broken cables with pieces of railroad.
16 Jun 2006	Behavior note	0.3 elephants broke one of the welds on the piece of railroad that was put up and welded as a barrier yesterday. Also, they knocked part of it down, breaking the cement wall. Maintenance fixed that this afternoon
17 Jun 2006	Animal management note	In AM, 7336 Tumpe had loose stool and would not eat well. Samples of stool were taken, blood was drawn and banamine was given. She felt better in PM. 0.3 elephants were shifted into the barn at night so that Tumpe could be monitored.
21 Jun 2006	Animal management note	0.2 Elephants SJ1899 Penny and 7031 Belle were trained this morning
23 Jun 2006	Animal management note	Belle and Tumpe were trained this morning
23 Jun 2006	Medical note	Elephants continue to have soft stool, only a couple piles showed formed boluses
24 Jun 2006	Medical note	Elephants continue to have soft stool, several semi-formed boluses on exhibit. Penny's behavior is slightly abnormal. She is holding her feet up periodically and seems withdrawn but eating normal. Dr. Moore & Dr. Benson informed. Bran given to her and to Tumpe & Belle. Will monitor. Due to the fact that all hoof stock seem to have stool problems, Keepers will be using TBQ footbaths in the barns until further notice.
26 Jun 2006	Medical note	0.3 Elephants Belle, Tumpe and Penny have very soft stool. Fecal samples submitted to the Hospital. 10% of PM hay was substituted with straw per vet staff.
27 Jun 2006	Medical note	Random elephant fecal samples submitted to the Hospital. Elephant stools look the same as yesterday. Elephants ate the straw they were given last night and will continue to receive 10% straw until further notice.
30 Jun 2006	Animal management note	0.1 Elephant 7031 Belle was trained this morning
7 Jul 2006	Foot management	0.1 Elephant 7031 'Belle' trimmed and filed all her feet
8 Jul 2006	Animal management note	0.3 Elephants SJ1899 Penny, 7031 Belle and 7336 Tumpe were trained this morning.
11 Jul 2006	Animal management note	A truck load of sand was delivered to the elephant yard today
12 Jul 2006	Animal management note	0.3 Elephants Penny, Belle and Tumpe were trained this morning and recieved sweet gum for enrichment
14 Jul 2006	Animal management note	0.3 Elephants SJ1899 Penny, 7031 Belle and 7336 Tumpe were all trained this morning and received sweet gum for enrichment
16 Jul 2006	Enrichment	Elephants received bamboo
17 Jul 2006	Enrichment	Produce/spices were scattered on elephant exhibit yard & received ice treats during mid-day shift.
19 Jul 2006	Animal management note	Penny, Belle and Tumpe were all trained this morning
19 Jul 2006	Animal management note	Weeds and tree branches were removed from the back hot wire on elephant yard
22 Jul 2006	Foot management	0.1 Elephant 7031 Belle had a rock embedded in foot pad of her left rear foot. Stone was removed and most of the rock sediment was removed. Will monitor and continue to open up as the pad grows back.
23 Jul 2006	Animal management note	Penny, Belle and Tumpe were all trained today & received bamboo on exhibit for enrichment
24 Jul 2006	Animal management note	Maintenance installed a larger hot box in the elephant mechanical room for the back fence. The front fence is still running off of the smaller box, power is better but still not ideal.

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24 Jul 2006	Enrichment	Received a sycamore tree for enrichment
25 Jul 2006	Enrichment	Food toss (with spices) to 0.3 elephants from elephant exhibit wall
25 Jul 2006	Foot management	Keeper assessed Belle's left rear foot where a rock was embedded in the pad and removed on 2 Jul 06. The area looked clean & seems to be healing nicely. Will continue to monitor
29 Jul 2006	Animal management note	0.2 Elephants 7031 Belle and 7336 Tumpe were trained this morning
30 Jul 2006	Enrichment	Elephants received ice treats in the afternoon.
31 Jul 2006	Enrichment	Elephants received "pizza bags" (tomato paste, onion powder & rolls in a paper bag.)
3 Aug 2006	Animal management note	This morning, a wallow was made on the elephant yard and filled with water
3 Aug 2006	Medical note	Belle has tear in right ear, the flap of skin is still attached.
4 Aug 2006	Animal management note	0.3 Elephants SJ1899 Penny, 7031 Belle and 7336 Tumpe were trained this morning.
4 Aug 2006	Medical note	Belle has bluish, purple spots on left side of her body that appear to be more prominent in the afternoon. Will monitor, Dtr. Benson informed. The tear in her right ear is healing nicely. She plays with it occasionally but this behavior does not appear to be detrimental
4 Aug 2006	Animal management note	Maintenance came to fix outside panel box in elephant barn. Keepers were having trouble opening and closing doors from that control panel. Elephants will have access to the paddock throughout the day this weekend so that Keepers will not have to deal with any malfunctions. The two concrete doors will be closed all day. Will re-evaluate on Monday.
5 Aug 2006	Medical note	Dr. Benson checked for spots on her left side. They were very light so keepers will call during the mid-day shift when they seem to be more apparent
6 Aug 2006	Animal management note	Yesterday & today, 0.3 Elephants SJ1899 Penny, 7031 Belle and 7336 Tumpe were trained this morning
7 Aug 2006	Animal management note	Penny, Belle and Tumpe were all trained this morning
9 Aug 2006	Enrichment	Elephants received cinnamon produce on exhibit
11 Aug 2006	Enrichment	Received browse
11 Aug 2006	Animal management note	Outside panel box at elephant is still not working properly, part has been ordered. Keepers will give access to paddock, only operating entrance doors to barn until part has arrived
13 Aug 2006	Enrichment	0.3 Elephants Penny, Belle & Tumpe each received a watermelon and a cantaloupe and were given a bath out on exhibit
16 Aug 2006	Foot management	Trimmed and filed nails on both of Belle's back feet
29 Aug 2006	Enrichment	Elephants received produce with spices hidden in stalls
1 Sep 2006	Animal management note	0.2 Elephants SJ1899 Penny and 7031 Belle had blood draw training and foot checks
1 Sep 2006	Enrichment	Received bamboo
1 Sep 2006	Animal management note	In AM, 0.3 Penny, Belle and Tumpe were trained on the 8, 9, 10, 14, 15, 17, 18, 22
3 Sep 2006	Animal management note	0.2 Elephants Penny and Belle were trained this morning
7 Sep 2006	Animal management note	This afternoon, 0.3 Elephants Belle, Tumpe and Penny were trained in the ERD.
8 Sep 2006	Foot management	0.2 Elephants SJ1899 Penny and 7031 Belle nails were checked and mended
8 Sep 2006	Enrichment	Received sweet gum
16 Sep 2006	Animal management note	0.3 Elephants Penny, Belle and Tumpe were all trained in the ERD
20 Sep 2006	Animal management note	Penny & Tumpe trained in the ERD
23 Sep 2006	Animal management note	Penny, Belle and Tumpe were all trained in the ERD.
24 Sep 2006	Animal management note	Morning and afternoon training sessions with elephants.
1 Oct 2006	Enrichment	Elephants received cajun popcorn and cheerios on exhibit.
1 Oct 2006	Enrichment	Elephants received cajun popcorn and cheerios on exhibit.
4 Oct 2006	Medical note	0.3 Elephants Penny, Belle & Tumpe had soft, sloppy stool on yard. Dr. Benson informed
5 Oct 2006	Medical note	Due to the soft, sloppy stool yesterday, a composite elephant fecal sample taken from Hosital. Today the stool seems better. Will continue to monitor
6 Oct 2006	Medical note	Belle has a superficial scrape over right eye; keepers will monitor
7 Oct 2006	Enrichment	Browse given to elephants on yard
9 Oct 2006	Enrichment	Elephants received treat boxes for enrichment.

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11 Oct 2006	Foot management	0.1 Elephant 7031 Belle received routine foot care on both back feet.
11 Oct 2006	Enrichment	Elephants received sweet gum on exhibit for enrichment.
13 Oct 2006	Animal management note	0.3 Penny, Belle and Tumpe were all trained in the AM and PM.
14 Oct 2006	Animal management note	Penny, Belle & Tumpe trained in AM & PM
15 Oct 2006	Animal management note	Large fans were removed from elephant barn for the winter
16 Oct 2006	Animal management note	0.3 Elephants Tumpe, Belle & Penny were trained this morning
17 Oct 2006	Foot management	Trimmed and filed both of Belle's front feet
18 Oct 2006	Animal management note	Maintenance worked on the elephant ERD all day. Elephants did not have access to the barn all day and all night
19 Oct 2006	Animal management note	Maintenance finished work on the ERD; however, when it was lower it, the wench and chain broke causing the ERD to hit the ground. There is some damage to the frame of the ERD and to the concrete around the legs. It appears to be at a slight tilt. The doors and scale are still operational. The damage will have to be assessed before elephants are trained in the ERD.
24 Oct 2006	Animal management note	In the afternoon, yard work on the elephant exhibit. Elephants were off exhibit in the afternoon and evening
25 Oct 2006	Animal management note	Elephant training sessions in the morning. Elephants destroyed part of the steel barrier located between gunite walls on exhibit. Maintenance examined the problem and will be doing work on it tomorrow.
25 Oct 2006	Enrichment	Elephants received mulberry browse and dill/onion spiced hay this afternoon.
26 Oct 2006	Animal management note	Maintenance finished repairing the steel barrier in the elephant yard and elephants were let out on exhibit at 3 pm
27 Oct 2006	Foot management	Worked on Belle's right back foot and right front foot
28 Oct 2006	Animal management note	0.1 Elephant 7031 Belle was trained in the ERD this morning
29 Oct 2006	Animal management note	0.3 7336 Tumpe, 7031 Belle & SJ1899 Penny were trained this morning
29 Oct 2006	Enrichment	0.3 elephants received pumpkins, paper mache and bags of popcorn.
1 Nov 2006	Animal management note	In AM, 0.3 elephants SJ1899 Penny, 7336 Tumpe & 7031 Belle were trained on Nov 5, 10, 11, 17, 18, 21, 24, 25, 27
4 Nov 2006	Enrichment	0.3 Elephants Tumpe, Belle & Penny received pumpkins and cucumbers on exhibit
7 Nov 2006	Foot management	0.3 SJ1899 Penny, 7031 Belle & 7336 Tumpe follow up foot care on toe nail cracks
8 Nov 2006	Animal management note	Penny and Belle were trained this morning. Tumpe was trained in the ERD
9 Nov 2006	Medical note	A sample of the coastal hay from new elephant trailer was submitted for analysis
12 Nov 2006	Enrichment	Elephant training sessions in am & received cheerios on exhibit in pm.
20 Nov 2006	Enrichment	0.3 Elephants SJ1899, 7336 & 7031 painted and were trained this morning
28 Nov 2006	Enrichment	Elephants received banana trees for enrichment on exhibit.
29 Nov 2006	Enrichment	Elephants received wax mertle this afternoon.
30 Nov 2006	Animal management note	Morning and afternoon training sessions with elephants.
30 Nov 2006	Enrichment	Elephants received wax mertle on exhibit.
1 Dec 2006	Animal management note	0.2 Elephants 7031 & 7336 were trained this morning
2 Dec 2006	Animal management note	0.3 Elephants SJ1899, 7336, 7031 were all trained this morning
3 Dec 2006	Enrichment	Elephants painted this morning for enrichment.
6 Dec 2006	Animal management note	Penny, Belle and Tumpe werel trained this morning in the ERD
8 Dec 2006	Animal management note	0.3 Elephants Penny, Belle and Tumpe were all trained this morning.
8 Dec 2006	Foot management	Belle's back feet were trimmed and nails filed
9 Dec 2006	Foot management	Belle's front feet were trimmed and nails filed
11 Dec 2006	Animal management note	Yesterday and today, training sessions with elephants.
12 Dec 2006	Enrichment	Elephants received bamboo on exhibit this afternoon.
17 Dec 2006	Enrichment	0.3 Elephants painted this afternoon
23 Dec 2006	Foot management	This morning, Foot care done on all three elephants

Report Start Date
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Specimen Report for COLUMBIA / 7031

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23 Dec 2006	Enrichment	They received pine trees, cheerios, peppermints, and cardboard cut-outs
27 Dec 2006	Enrichment	Food toss to elephants
6 Jan 2007	Animal management note	0.3 elephants penny, Belle & Tumpe were trained this morning
7 Jan 2007	Enrichment	0.3 elephants were trained in the morning. They painted this afternoon for enrichment
9 Jan 2007	Foot management	0.3 SJ1899 Penny, 7031 Belle & 7336 Tumpe had nail follow-up work and pad trimming
10 Jan 2007	Medical note	While on exhibit, 0.1 7336 Tumpe appeared to have stomach cramps and was lethargic. Keepers shifted 0.3 Penny, Belle & Tumpe off exhibit in order to draw blood (purple, red, and green) and collect a fecal sample. They attempted to shift Tumpe back on exhibit but she chose to stay in the paddock. Keepers decided to leave her there and Penny & Belle were shifted onto exhibit. All 3 were brought into the barn for the evening. Tumpe received banamine injected through a vein in her ear and was given some bran. She seemed brighter and more compliant/alert to her surroundings. Also, Penny had some soft stool. A sample was taken to the Hospital but she appears okay
12 Jan 2007	Animal management note	Yesterday and today, 0.3 Penny, Belle & Tumpe were trained in the morning
13 Jan 2007	Physical condition	SJ1899 Penny, 7336 Tumpe & 7031 Belle did stretching exercises today
14 Jan 2007	Enrichment	Elephants foraged for food on exhibit.
17 Jan 2007	Animal management note	Morning training sessions with the elephants. Elephants received paper treat bags.
18 Jan 2007	Animal management note	Morning training sessions with Penny, Belle & Tumpe. Weather was cold & rainy so elephants had access to the barn all day
19 Jan 2007	Animal management note	ERD training for all elephants
20 Jan 2007	Animal management note	0.3 Elephants did stretching exercises this morning
22 Jan 2007	Animal management note	0.3 Elephants Penny, Belle & Tumpe were kept inside today due to the cold, rainy weather and the need to draw blood from Tumpe
27 Jan 2007	Foot management	Worked on Belle's nails today, will continue on Tuesday.
27 Jan 2007	Enrichment	Elephants given a bath today; scrubbed Belle with soap
31 Jan 2007	Enrichment	Elephants given sweet gum logs on exhibit and in holding
3 Feb 2007	Animal management note	Elephants trained in the ERD, both morning and afternoon
6 Feb 2007	Foot management	Both of Belle's back feet were trimmed and nails filed
8 Feb 2007	Animal management note	Morning training sessions with elephants and they later received bamboo
9 Feb 2007	Animal management note	Morning training sessions with elephants. Spices on hay this afternoon.
9 Feb 2007	Foot management	Belle received routine foot care
10 Feb 2007	Animal management note	Morning training sessions with elephants
13 Feb 2007	Foot management	Both of Belle's front feet were trimmed
14 Feb 2007	Animal management note	ERD training
16 Feb 2007	Animal management note	Maintenance placed plastic shields on emergency lights to help keep water out of lights in elephant barn
17 Feb 2007	Animal management note	Morning & afternoon training sessions with elephants
27 Feb 2007	Medical note	First tuberculosis test out of a series of three was completed on SJ1899 Penny, 7336 Tumpe & 7031 Belle
1 Mar 2007	Enrichment	Elephants received treat bags and spices in stalls with PM hay
2 Mar 2007	Foot management	Keeper checked on problem toe nails on Penny, Tumpe & Belle's feet.
3 Mar 2007	Medical note	Penny, Tumpe & Belle had the third and final Tuberculosis test
8 Mar 2007	Enrichment	Elephants were brought in early to do exhibit work & received spices on hay and bread/cheerios treats inside
9 Mar 2007	Foot management	Keeper checked cracked toe nails of Belle & Penny, all are looking good
10 Mar 2007	Animal management note	Penny, Belle & Tumpe were trained in ERD
20 Mar 2007	Foot management	Keeper trimmed both of Belle's back feet
23 Mar 2007	Foot management	Routine foot work was done on Belle
25 Mar 2007	Enrichment	0.3 Elephants received tulip tree on exhibit
27 Mar 2007	Foot management	Problem nails were checked on Belle's feet.

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Specimen Report for COLUMBIA / 7031

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4/17/2007



30 Mar 2007	Foot management	The cracks in Belle's toe nails on all four feet were checked
3 Apr 2007	Animal management note	This AM, WLTX Channel 19 taped several segments for their Zoo19 series in the elephant barn with Penny, Belle & Tumpe
8 Apr 2007	Foot management	Keeper checked Belle, Penny & Tumpe's feet and applied cream to nails
10 Apr 2007	Animal management note	Morning and afternoon training sessions with Belle, Penny & Tumpe.
10 Apr 2007	Enrichment	Elephants received tulip poplar.

<u>Date</u>	<u>Enclosure</u>	<u>Reason</u>
13 Dec 2001	ELEPHANT	

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
4 Dec 2001	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
4 Dec 2001	Unknown	

<u>Date</u>	<u>Parent(s)</u>	<u>local id</u>	<u>Location</u>	<u>Comments</u>
3 May 1981	Sire	WILD	UNKNOWN	
3 May 1981	Dam	WILD	UNKNOWN	

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 7031
East African bush elephant           Age: 26Y 2M Est. Birth: 3.May.1981
Name: BELLE
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.....2005...

6.May.2005

Lab: Monthly labwork results (Antech)
O: hgb 13.1, Hct 43.4, rbc 3.06, MCV 42.8, MCHC 30.2, platelet count 246, platelet estimate adequate, wbc 5100, pmn's (40%) 2040, lymphocytes (20%) 1020, monocytes (39%) 1989, eosinophils (1%) 51
glucose 94, BUN 6, Cr 1.2, tprotein 8.4, albumin 3.3, t.bili 0.1, ALP 99, AST 13, cholesterol 75, Ca 10.8, P 4.9, Na 128, K 5.0, Cl 89, globulin 5.1, CPK 303, GGTP 9, Mg 2.4, fibrinogen - clotted
A: Values are within ISIS normals for this species. (TM)

13.May.2005

Rx: Gave 12 capsules of Cabergoline 1mg. 2 capsules twice a week for 6 months. (AM)

4.Jun.2005

Lab: Monthly labwork results (Antech)
O: hgb 10.9, Hct 27.8, rbc 2.53, MCV 110, MCH 43.1, MCHC 39.2, platelet count 619, platelet estimate increased, wbc 9900, pmn's (24%) 2376, lymphocytes (21%) 2079, monocytes (49%) 4851, eosinophils (1%) 99, basophils (5%) 495
glucose 107, BUN 14, Cr 1.2, tprotein 7.9, albumin 3.2, t.bili 0.1, ALP 89, AST 8, cholesterol 77, Ca 10.2, P 7.2, Na 131, K 4.9, Cl 89, globulin 4.7, CPK 245, GGTP 7, Mg 2.3, fibrinogen 360
A: High normal fibrinogen. Anemia; monocytosis consistent for this animal. (TM)

9.Jul.2005

Lab: Monthly labwork results (Antech)
O: hgb 11.6, Hct 37.2, rbc 2.65, MCV 140, MCH 43.8, MCHC 31.2, platelet count 509, wbc 11100, pmn's (23%) 2553, lymphocytes (46%) 5106, monocytes (28%) 3108, eosinophils (3%) 333
glucose 115, BUN 12, Cr 1.5, tprotein 7.7, albumin 2.8, t.bili 0.1, ALP 85, AST 7, cholesterol 76, Ca 10.2, P 7.3, Na 128, K 4.8, Cl 90, globulin 4.9, CPK 181, GGTP 9, fibrinogen 291, Mg 2.2
A: Values are within normal limits for this species (TM)

2.Aug.2005

Small pocket of what appears to be edema over the ventral abdomen.
P: Observe and try warm water soaks. (KB)

5.Aug.2005

Elephant Panel, Antech, monthly routine blood draw.
1. CHEM: glu=92, BUN=11, Cr=1.4, t.p.=7.5, alb=2.8, bili

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA KNOCHENHAUERI
East African bush elephant
Name: BELLE

Sex: Female Acc. #: 7031
Age: 26Y 2M Est. Birth: 3.May.1981

5.Aug.2005

(total)=0.1, alk phos=80, AST=11, chol=73, Ca++=10.7, phos=3.9,
Na++=126, K+=4.5, Cl-=86, glob=4.7, CPK=208, GGTP=11.
2. Mg=2.4.
3. CBC: hgb=11.6, hct=38.0, wbc=9.3, rbc=2.71, mcv=140, mch=42.8,
mchc=30.5, plt count=517, plt est=inc, neuts/hets=2325, bands=0,
lymphs=3162, monos=3813, eos=0, basos=0.
4. FIB=193 (KB)

12.Aug.2005

Obs: Edema treated with cold water; size remains the same (TM)

13.Aug.2005

Obs: Keeper reports swelling has decreased; continue with cold water treatments BID per KB (TM)

17.Aug.2005

Obs: Keeper reports edema appears to be resolving (TM)

24.Aug.2005

Trunk Wash: NVSL: All three samples are Negative (KB)

24.Aug.2005

Visual exam: Focal area of swelling on the ventral abdomen.
A: Edema is resolving and the weather is a cooler than it has been.
Animal also gets a bath once a day in addition to treatments.
P: OK to discontinue cold water treatments. If edema gets worse again, then commence treatment again. (TM)

2.Sep.2005

Lab: Monthly CBC and Chemistry results (Antech)
hgb 11.8, Hct 30.5, rbc 2.73, MCV 112, MCH 43.2, MCHC 38.7, paltelet count 624, platelet estimate increased, wbc 12300, pmn's (26%) 3198, lymphcoytes (62%) 7626, monocytes (12%) 1476
glucose 78, BUN 9, Cr 1.5, tprotein 7.9, albumin 3.2, t.bili 0.1, ALP 100, AST 12, cholesterol 95, Ca 10.7, P 4.4, Na 131, K 5.0, Cl 91, globulin 4.7, CPK 190, GGTP 12, Mg 2.5, fibrinogen 213
A: Values are within normal limits for this species. (TM)

3.Sep.2005

Obs: Keeper reports edema appears to have resolved completely. (TM)

8.Oct.2005

Lab: Monthly labwork results (Antech)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA KNOCHENHAUERI
East African bush elephant
Name: BELLE

Sex: Female Acc. #: 7031
Age: 26Y 2M Est. Birth: 3.May.1981

8.Oct.2005

O: In house Hct/tprotein 33/7.8
hgb 11.0, Hct 30.1, rbc 2.61, MCV 115, MCH 42.1, MCHC 36.5, platelet
count 406, platelet estimate adequate, wbc 9500, pmn's (24%)
lymphocytes (27%) 2565, monocytes (49%) 4655
glucose 93, BUN 14, Cr 1.1, tprotein 8.1, albumin 3.2, t.bili 0.1, ALP
101, AST 17, cholesterol 78, Ca 10.2, P 4.7, Na 138, K 5.0, Cl 93,
globulin 4.9, CPK 181, GGTP 11, Mg 2.3, fibrinogen 419
A: Monocytosis has been seen as a stress response in this animal.
She is clinically normal at this time and will just be monitored.
P: Monitor. (TM)

3.Nov.2005

HCT/TS (in house): HCT=41, TS=8 (KB)

4.Nov.2005

Fecal (in house):Bi-annual fecal
Direct: nps
Float: nps (AM)

4.Nov.2005

Monthly Elephant Panel, Antech
1. CHEM: glu=94, BUN=11, Cr=1.4, t.p.=8.7, alb=3.4, bili
(total)=0.1, alk phos=113, AST=15, chol=86, Ca+=10.7, phos=4.7,
Na+=137, K+=5.7, Cl-=92, glob=5.3, CPK=224, GGTP=12.
2. Mg=2.5.
3. CBC: hgb=13.1, hct=31.0, wbc=12.5, rbc=3.06, mcv=101, mch=42.8,
mchc=42.3, plt count=664, plt est=inc, neuts/hets=3250, bands=0,
lymphs=4125, monos=4500, eos=0, basos=625.
4. FIB=357 (KB)

20.Nov.2005

Obs: Public reported either SJ1899, 7336 or 7031 ate an electric cord
from the Christmas lights (TM)

2.Dec.2005

Lab: Monthly CBC results (Antech); not enough for chem
O: hgb 11.9, Hct 27.5, rbc 2.77, MCV 99, MCH 43, MCHC 43.3, platelet
count 394, platelet estimate adequate, wbc 13400, pmn's (30%) 4020,
lymphocytes (9%) 1206, monocytes (61%) 8174
A: Monocytosis has been seen in this animal with stress, but should
be monitored. Anemia, however all of the elephants were anemic this
month which could indicate error in taking the sample (not enough
blood in EDTA tube) or a true result.
P: Monitor animal closely. Monitor trends in Hct. Keepers will
submit sample for Chemistry. (TM)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 7031
East African bush elephant	Age: 26Y 2M Est.	Birth: 3.May.1981
Name: BELLE		

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6.Feb.2006

O: hgb 12.4, Hct 28.4, rbc 2.85, MCV 100, MCH 43.5, MCHC 43.7, platelet count 446, platelet estimate adequate, wbc 10700, pmn's (22%) 2354, lymphocytes (33%) 3531, monocytes (45%) 4815
glucose 89, BUN 13, Cr 1.0, tprotein 8.4, albumin 3.2, t.bili 0.1, ALP 105, AST 9, cholesterol 86, Ca 10.4, P 4.8, Na 141, K 5.1, Cl 92, globulin 5.2, CPK 368, GGTP 8, Mg 2.5, fibrinogen 297
A: Anemia persists. Unsure of the significance in this animal as it is chronic. Monocytosis seen before with stress. (TM)

13.Feb.2006

Obs: Finished cabergoline; will not be continued (TM)

21.Feb.2006

Obs: Observed trunk wash for TB test (TM)

23.Feb.2006

Obs: Observed trunk wash for TB test (TM)

25.Feb.2006

Obs: Observed trunk wash for TB test (TM)

3.Mar.2006

Lab: Monthly bloodwork results (Antech)
O: hgb 13.2, Hct 43.4, rbc 3.02, MCV 144, MCH 43.7, MCHC 30.4, platelet count 667, platelet estimate increased, wbc 12900, pmn's (24%) 3096, lymphocytes (24%) 3096, monocytes (51%) 6579, eosinophils (1%) 129
glucose 78, BUN 10, Cr 1.5, tprotein 8.6, albumin 3.3, t.bili 0.1, ALP 108, AST 9, cholesterol 86, Ca 10.7, P 7.0, Na 130, K 4.7, Cl 89, globulin 5.3, CPK 446, GGTP 12, Mg 2.4, fibrinogen 324
A: Anemia resolved for the time. (TM)

6.Apr.2006

Lab: In house TP: 8mg/dl, HCT:34% (AM)

7.Apr.2006

Lab: Monthly labwork results (Antech)
O: hgb 12.5, hct 40.4, rbc 2.84, MCV 142, MCh 44, MCHC 30.9, platelet count 656, platelet estimate increased, wbc 11300, pmn's (32%) 3616, lymphocytes (32%) 3616, monocytes (36%) 4068
glucose 98, BUN 8, Cr 1.4, tprotein 7.8, albumin 3.0, t.bili 0.1, ALP 94, AST 17, cholesterol 90, Ca 10.9, P 4.1, Na 126, K 5.1, Cl 90, globulin 4.8, CPK 313, GGTP 12, Mg 2.3, fibrinogen 235
A: Values are within normal limits for this species; no evidence of anemia. (TM)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA KNOCHENHAUERI
East African bush elephant
Name: BELLE

Sex: Female Acc. #: 7031
Age: 26Y 2M Est. Birth: 3.May.1981

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21.Apr.2006

CC: Routine examination
S/O: EENT - wnl; M/S - NAF; integument - feet look good, her hind feet are small and there is a decreased pad thickness at the caudal portion of primarily the left foot but there are no lesions associated with that; G/U - external exam within normal limits; PLN - naf; G/I - mouth looks good and stool of normal quality; nervous system - wnl; unable to auscult well
A: Was able to externally palpate well as the animal has a good temperment. Apparently healthy.
P: No changes necessary based on current information. (TM)

6.May.2006

Elephant Panel, Antech
1. CHEM: glu=95, BUN=8, Cr=1.3, t.p.=7.3, alb=2.9, bili (total)=0.2, alk phos=83, AST=14, chol=73, Ca+=10.6, phos=4.1, Na+=130, K+=5.1, Cl-=91, glob=4.4, CPK=504, GGTP=10.
2. Mg=2.1.
3. CBC: hgb=12.4, hct=28.9, wbc=10.4, rbc=2.91, mcv=99, mch=42.6, mchc=42.9, plt count=385, plt est=adq, neuts/hets=2600, bands=0, lymphs=2080, monos=5720, eos=0, basos=0.
4. FIB=198
A: Monocytosis persists. There is no signs of a chronic inflammatory condition in this animal however, and trunk wash samples are pending. (KB)

7.May.2006

Lab: Routine bi-annual fecal
Direct: NPS
Float: NPS (JM)

12.May.2006

Procedure: Tetanus vaccine; 1ml IM; left tricep (Ft Dodge; 277337A; 12Aug06). (TM)

19.May.2006

Procedure: Rabies vaccine; 2ml IM left tricep (Ft Dodge; 1215270B; 21Apr07; 12153D) (TM)

2.Jun.2006

In house TP: 8.2mg/dl, HCT: 34% (AM)

2.Jun.2006

Monthly blood work:
1. CBC (Antech and in-house) mammal: hgb=11.6, hct=25.9, wbc=11.2,

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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=====
LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 7031
East African bush elephant           Age: 26Y 2M Est. Birth: 3.May.1981
Name: BELLE
=====

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2.Jun.2006

rbc=2.61, mcv=99, mch=44.4, mchc=44.8, plt count=472, plt est=adq,
neuts/hets=3584, bands=0, lymphs=2912, monos=4704, eos=0, basos=0.
FIB=235

2. CHEM (Antech equine screen) Mammalian: glu=80, BUN=10,
creat=QNS, t.p.=QNS, alb=QNS, bili (total)=QNS, alk phos=106, AST=11,
chol=81, Ca++=9.9, phos=5.2, Na++=QNS, K+=QNS, Cl-=QNS, glob=QNS,
CPK=482, GGTP=9.

3. Mg=2.3 (KB)

3.Jun.2006

This elephant is limping on her left rear leg. Her stifle appears
stif though she can bend it when asked to. There is also a very
slightly perceptable swelling of the skin folds around the back of the
stifle.

R/O truama, infection

P: NSAIDS, hydrotherapy and repeat CBC.

Rx: PHENYL BUTAZONE 4 gm PO BID for 2 days. (KB)

4.Jun.2006

CC: Update: Richard reports that the animal seems to be much
improved. On visual she still seems slightly stiff.

1. CBC (Antech and in-house) mammal: hgb=10.3, hct=28.4, wbc=10.1,
rbc=2.86, mcv=99, mch=36.0, mchc=36.3, plt count=457, plt est=inc,
neuts/hets=4545, bands=0, lymphs=2323, monos=3232, eos=0, basos=0.

2. FIB=206

3. CHEM (Antech equine screen) Mammalian: glu=120, BUN=11,
creat=1.8, t.p.=8.5, alb=3.3, bili (total)=0.1, alk phos=106, AST=10,
chol=95, Ca++=10.9, phos=5.5, Na++=136, K+=4.5, Cl-=92, glob=5.2,
CPK=440, GGTP=14.

A: Mild monocytosis persists, but is improved from the last sample.
I have a call in to the Elephant vet advisor to discuss persistant
monocytosis without other symptoms to determine what, other than a TB
workup should be performed. (KB)

13.Jun.2006

Mycobacterial Culture: Elephant Trunk Wash: NVSL: 3 separate cultures:
no isolation made: Submitted on 4/04/06 (KB)

24.Jun.2006

Lab: No Salmonella, Shigella, Campylobacter nor Yersinia isolated;
reduced normal fecal flora (Lexington)

Obs: Animal has some soft stool, some semi-formed.

P: Given bran this evening. (TM)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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=====
LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 7031
East African bush elephant           Age: 26Y 2M Est. Birth: 3.May.1981
Name: BELLE
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28.Jun.2006

Lab: Enteric Pathogens (Lexington) collected on 26 June 06
Composite from 7336,7031,SJ1899

Composite sample #2: No Salmonella, Shigella, Campylobacter, Yersinia isolated.

Composite sample #3: No Salmonella, Shigella, Campylobacter, Yersinia isolated. Reduced normal fecal flora. (JM)

29.Jun.2006

Lab: Enteric Pathogens (Lexington) collected on 27 June 06
Composite from 7336,7031,SJ1899

Composite sample #2: No Salmonella, Shigella, Campylobacter, Yersinia, E Coli 0157 isolated. Reduced normal fecal flora.

Composite sample #3: No Salmonella, Shigella, Campylobacter, Yersinia, E coli 0157 isolated. Normal enteric gram negative flora absent. (JM)

30.Jun.2006

Lab: Fecal culture results (composite 7031, 7336 and SJ1899)
O: Aeromonas hydrophilia 1+
No Salmonella, Shigella, Campylobacter nor Yersinia isolated.
A: Suspect contamination as the enclosure is cleaned with river water.
P: No treatment at this time. Monitor. (TM)

1.Jul.2006

Lab: CBC and Chemistry (Antech) results from phlebotomy 6/29
O: Hct 27.8, hgb 12.2, rbc 2.82, MCV 99, MCH 43.3, MCHC 43.9, platelet count 381, platelet estimate adequate, wbc 9800, pmn's (29%) 2842, lymphocytes (23%) 2254, monocytes (48%) 4704
glucose 99, BUN 15, Cr 1.3, tprotein 6.7, albumin 3.1, t.bili 0.3, ALT 81, AST 12, cholesterol 84, Ca 10.7, P 5.6, Na 131, K 5.1, Cl 99, globulin 3.6, CPK 437, GGTP 11, LDH 612, Mg 2.4, fibrinogen 222
A: Anemia and monocytosis which has been present in this herd. Unsure if they are related to the soft stool directly, but do not believe so.
P: Monitor and repeat bloodwork in about a month, earlier if the animal stops eating or shows other physical signs of a disease process. (TM)

3.Jul.2006

Lab: Fecal culture results (composite 7031, 7336 and SJ1899)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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=====
LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 7031
East African bush elephant           Age: 26Y 2M Est. Birth: 3.May.1981
Name: BELLE
=====

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3.Jul.2006

O: No Salmonella, Shigella, Campylobacter nor Yersinia isolated.
 Reduced normal fecal flora.
 A: Unsure of the significance of the latter sentence as this is a
 human lab.
 P: Monitor. (TM)

4.Jul.2006

Obs: Keeper reports more normal feces seen today (TM)

4.Aug.2006

CC: Lab and brief exam
 Hx: Keeper reports animal had a new hole in her right ear yesterday
 as well as some randomly sized, varying shaped purple discolorations
 on her right side. She would not put her ear out for evaluation from
 the keepers yesterday. Playing with the ear, but eating normally.
 S/O: Animal BAR and eating well. There is a tear at the edge of the
 right mid-pinna with a previous "hole" visible medially. The animal
 does not mind manipulation of the area today. Slightly warm to the
 touch, but no bleeding nor evidence of infection at this time.
 A: Hole/tear in right pinna.
 P: Monitor; should be fine.

Lab: hgb 8.5, Hct 23.6, rbc 2.56, MCV 92, MCH 33.2, MCHC 36, platelet
 count 381, platelet estimate adequate, wbc 10000, pmn's (28%) 2800,
 lymphocytes (24%) 2400, monocytes (48%) 4800
 glucose 95, BUN 9, Cr 1.5, tprotein 7.3, albumin 2.9, tbili 0.1, ALP
 85, AST 12, cholesterol 73, Ca 10.5, P 6.8, Na 128, K 5.0, Cl 91,
 globulin 4.4,
 CPK 352, GGTP 10, LDH 416, Mg 2.5, fibrinogen 220
 A: Consistent with values seen in this animal previously. (TM)

8.Sep.2006

Lab: Monthly labwork results
 O: In house Hct/tprotein 38/8.6
 hgb 10.1, Hct 28.7, rbc 2.95, MCV 97, MCH 34.2, MCHC 35.2, platelet
 count 356, platelet estimate adequate, wbc 11300, pmn's (31%) 3503,
 lymphocytes (19%) 2147, monocytes (50%) 5650
 glucose 82, BUN 10, Cr 1.4, tprotein 8.1, albumin 3.0, t.bili 0.2, ALP
 97, AST 9, cholesterol 90, Ca 10.1, P 4.3, Na 131, K 4.4, Cl 89,
 globulin 5.1, CPK 399, GGTP 12, LDH 450, Mg 2.4, fibrinogen 269
 A: Monocytosis; values consistent with previous ones. (TM)

6.Oct.2006

Lab: Monthly labwork results (Antech)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 7031
East African bush elephant           Age: 26Y 2M Est. Birth: 3.May.1981
Name: BELLE
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6.Oct.2006

O: hgb 11.7, hct 32.9, rbc 2.72, MCV 121, MCH 43, MCHC 35.6, platelet count 227, platelet estimate adequate, wbc 8600, pmn's (28%) 2408, lymphocytes (16%) 1376, monocytes (45%) 3870, eosinophils (8%) 688, basophils (3%) 258
 glucose 107, BUN 9, Cr 1.2, tprotein 7.0, albumin 2.8, t.bili 0.1, ALP 61, AST 11, cholesterol 81, Ca 10.2, P 4.6, Na 125, K 5.6, Cl 86, globulin 4.2, CPK 424, GGTP 10, LDH 437, Mg 2.4, fibrinogen 191
 A: Monocytosis as seen previously. (TM)

9.Oct.2006

Lab: Composite (SJ1899,7336,7031) sample for Enteric Pathogens (Lexington)
 No Salmonella, Shigella, Campylobacter, E. Coli 0157:H7 or Yersinia isolated. (JM)

3.Nov.2006

Lab: Monthly labwork results (Antech)
 O: hgb 12.4, Hct 27.5, rbc 2.83, MCV 97, MCH 43.8, MCHC 45.1, platelet count 335, platelet estimate adequate, wbc 10300, pmn's (24%) 2472, lymphocytes (21%) 2163, monocytes (55%) 5665
 glucose 73, BUN 11, Cr 1.1, tprotein 8.0, albumin 2.9, t.bili 0.1, ALP 87, AST 9, cholesterol 88, Ca 10.5, P 5.2, Na 131, K 5.0, Cl 87, globulin 5.1, CPK 358, GGTP 9, LDH 439, Mg 2.2, fibrinogen 455
 A: Anemia has been seen previously in this animal, as has the monocytosis. (TM)

9.Dec.2006

Lab: Monthly labwork results (Antech)
 O: hgb 13.3, Hct 39.8, wbc 12.3, rbc 3.15, MCV 126, MCH 42.2, MCHC 33.4, platelet count 307, platelet estimate adequate, wbc 12300, pmn's (26%) 3198, lymphocytes (21%) 2583, monocytes (53%) 6519
 glucose 87, BUN 11, Cr 1.2, tprotein 8.0, albumin 3.1, t.bili 0.1, ALP 103, AST 11, cholesterol 79, Ca 10.9, P 7.7, Na 130, K 5.2, Cl 88, globulin 4.9, CPK 266, GGTP 12, LDH 397, Mg 2.6, fibrinogen 200
 A: Hyperphosphatemia, monocytosis. The latter is consistent in this animal, but the former is not. The significance of that is not known at this time, but it was seen in all three animals this month.
 P: Recheck next month, monitor trends. (TM)

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5.Jan.2007

Lab: Monthly labwork results (Antech)
 O: hgb 11.1, Hct 33.3, rbc 2.60, MCV 128, MCh 42.7, MCHC 33.3,

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 7031
East African bush elephant	Age: 26Y 2M Est.	Birth: 3.May.1981
Name: BELLE		

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5.Jan.2007

platelet count 341, platelet estimate adequate, wbc 9200, pmn's (39%) 3588, lymphocytes (51%) 4692, monocytes (8%) 736, eosinophils (2%) 184
glucose 91, BUN 8, Cr 1.3, tprotein 7.4, albumin 2.9, t.bili 0.1, ALP 85, AST 13, cholesterol 70, Ca 10.2, P 4.4, Na 131, K 4.8, Cl 89, globulin 4.5, CPK 329, GGTP 10, LDH 384, Mg 2.4, fibrinogen 214
A: Values are within normal limits for this species. (TM)

21.Jan.2007

Lab: In house fecal (7031 and 7336 had soft stool)
Direct: NPS
Float: NPS (JM)

2.Feb.2007

Lab: Monthly labwork results (Antech)
O: hgb 12.8, Ht 39.9, rbc 2.82, MCV 141, MCH 45.4, MCHC 32.1, platelet count 468, platelet estimate increased, wbc 10200, pmn's (39%) 3978, lymphocytes (16%) 1632, monocytes (45%) 4590
glucose 68, BUN 12, Cr 1.1, tprotein 8.3, albumin 3.2, t.bil i0.2, ALP 86, AST 14, cholesterol 89, Ca 11.1, P 5.6, Na 132, K 6.0, Cl 89, globulin 5.1, CPK 340, GGTP 11, LDH 449, Mg 2.8, fibrinogen 249
A: Cholesterol, Ca, K and P are higher than normal but not extreme. Animal may not be drinking as much because it is cold outside.
P: Monitor water intake. Blood will be checked again in a month; earlier if clinical signs dictate. (TM)

27.Feb.2007

Obs: Observed trunk wash for TB test (TM)

1.Mar.2007

Obs: Observed trunk wash for TB test

Addendum: in house PCV: 38%
TP: 7.3mg/dl JM (TM)

2.Mar.2007

Lab: Monthly labwork results (Antech)
O: hgb 13, Hct 43.3, rbc 3.07, MCV 141, MCH 42.3, MCHC 30, platelet count 622, platelet estimate increased
glucose 85, BUN 12, Cr 1.3, tprotein 7.6, albumin 3.0, t.bili 0.1, ALP 83, AST 11, cholesterol 77, Ca 10.8, P 6.7, Na 132, K 5.1, Cl 91, globulin 4.6, CPK 363, GGTP 9, LDH 413, Mg 2.4, fibrinogen 151
(TM)

3.Mar.2007

Obs: Observed trunk wash for TB test (TM)

Clinical Notes - Individual Specimen Report
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 7031
East African bush elephant           Age: 26Y 2M Est. Birth: 3.May.1981
Name: BELLE
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5.Apr.2007

Lab: In house PCV: 38%
TP: 8.1 mg/dl (JM)

6.Apr.2007

Lab: Monthly labwork results (Antech)
O: hgb 12.4, Hct 37.2, rbc 2.72, MCV 137, MCH 45.6, MCHC 33.3,
platelet count 377, platelet estimate adequate, wbc 11700, pmn's (26%)
3042, lymphocytes (16%) 1872, monocytes (58%) 6786
glucose 77, BUN 11, Cr 1.2, tprotein 8.4, albumin 3.4, t.bili 0.2, ALP
73, AST 9, cholesterol 75, Ca 10.9, P 4.9, Na 131, K 5.4, Cl 89,
globulin 5.0, CPk 309, GGTP 10, LDH 448, Mg 2.0, fibrinogen 274
A: Values are within normal limits for this species (monocytosis seen
frequently in this animal - significance unknown) (TM)

3.May.2007

Lab: In house PCV: 32%
TP: 7.1mg/dl (JM)

5.May.2007

CC: Monthly labwork results (Antech)
O: hgb 11.4, Hct 30.4, rbc 2.61, MCV 116, MCH 43.7, MCHC 37.5,
platelet count 556, platelet estimate increased, wbc 7700, pmn's (26%)
2002, lymphocytes (14%) 1078, monocytes (55%) 4235, basophils (5%) 385
glucose 92, BUN 9, Cr 1.3, tprotein 7.6, albumin 3.1, t.bili 0.2, ALP
65, AST 11, cholesterol 70, Ca 11, P 6.9, Na 128, K 4.8, Cl 88,
globulin 4.5, CPK 280, GGTP 8, LDH 403, Mg 1.9, fibrinogen 227
A: Hyperphosphatemia and monocytosis seen in this herd. (TM)