



**Oregon Zoo Bond
Citizens' Oversight Committee**
Conservation Hall, Education Center, Oregon Zoo
Wednesday, May 8, 2019
3 to 5 p.m.

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting
May 8, 2019
Agenda

AGENDA

| ITEM | ACTION | ANNUAL REPORT | LEAD | TIME |
|--|---------|---|---|------|
| A. Welcome / Introductions • Agenda overview • Introductions | Review | | Susan Hartnett | 3:00 |
| B. Minutes of Feb. 13, 2019, Committee meeting | Approve | | Susan Hartnett | 3:05 |
| C. Monthly Project Status Reports 1. Polar Passage/Primate Forest/Rhino 2. Interpretive Experience – No report 3. Percent-for-Art 4. Electrical Infrastructure • Lower Service Road Generator Replacement 5. Close-out project: Tree mitigation – No report | Discuss | (New report) Page 22, 29 Page 34 Page 35 | Heidi Rahn, Jim Mitchell | 3:10 |
| D. Program Status and Financial Information | Discuss | Page 40, 43, 45 | Heidi Rahn/ Sarah Keane | 3:25 |
| E. Program and Projects Schedule | Discuss | | Heidi Rahn | 3:30 |
| F. Oversight Committee annual report • To be presented to the Metro Council May 9, 2019 • Review this year's 2019 report prep process • Preparations for next year's 2020 report | Discuss | | Susan Hartnett | 3:35 |
| G. Education Center interpretives evaluation | | Page 15, 31 | Grant Spickelmier and Terry O'Connor, Terry O'Connor Consulting | 4:00 |
| H. Education Center operations outcomes | | Page 18, 46, 66 | Grant Spickelmier | 4:30 |
| I. Zoo and Oregon Zoo Foundation Updates | Update | | Don Moore, Julie Fitzgerald | 4:45 |
| J. Open Discussion/Questions | Discuss | | Susan Hartnett | 4:55 |

Upcoming meeting dates – Wednesdays, 3 to 5 p.m. in Conservation Hall, Education Center, Oregon Zoo

| | | |
|----------------|----------------|--|
| | Feb. 12, 2020 | |
| Sept. 11, 2019 | May 13, 2020 | |
| Nov. 13, 2019 | Sept. 9, 2020 | |
| | Nov. 18, 2020* | *Change in schedule to 3 rd Wed. due to holiday |



Oregon Zoo Bond Citizens' Oversight Committee

Oregon Zoo – Conservation Hall
Wednesday, Feb. 13, 2019
3 to 5 p.m.

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

May 8, 2019

Agenda item B

MINUTES

MEMBERS PRESENT

Susan Hartnett (Chair)
Dan Aja
Heidi Goertzen
Daniel Hauser
Jill Mellen
Javier Mena
Chin See Ming
Katherine A. Porras
Dick Stenson
Emma Stocker
Christine L. Taylor
Karen Weylandt

AFFILIATION

Spectator Venues, City of Portland
Banfield Pet Hospital
Confluence Wealth Management
Oregon Center for Public Policy
Research Biologist
Portland Housing Bureau, City of Portland
Smith Freed & Eberhard
Meyer Memorial Trust
Retired healthcare executive; community volunteer
Emergency Management, Portland State University
Miller Nash Graham & Dunn
Retired from Providence Health & Services

MEMBERS ABSENT

Naomi Bishop
Laurel Brown
Cynthia Johnson Haruyama
Nan Heim
Robyn K. Pierce
Kevin Spellman

AFFILIATION

California State University, Northridge (professor *emerita*)
Facilities and Property Management, Portland State University
Oregon Japanese Garden
Nan Heim Associates; Oregon Zoo Foundation Board of Directors
Pierce, Bonyhadi & Associates
Spellman Consulting, Inc.

GUESTS

None

AFFILIATION

ELECTED OFFICIALS AND STAFF

Shirley Craddick
Scott Cruickshank
Julie Fitzgerald
Caleb Ford
Kate Giraud
Sarah Keane
Jim Mitchell
Don Moore
Joel Morton
Linnea Nelson
Heidi Rahn
Staci Pfau
Marcia Sinclair
Ruth Walkowski

Metro Councilor
General Manager, Metro Visitor Venues
Oregon Zoo Foundation Executive Director
Metro Assistant Finance Director
Oregon Zoo Bond Project Manager
Zoo Administration and Finance Program Director
Oregon Zoo Bond Construction Manager
Oregon Zoo Director
Metro Senior Attorney
Oregon Zoo Bond Program Coordinator
Metro Asset Management and Capital Planning Program Director
Oregon Zoo Bond Project Manager
Oregon Zoo Marketing
OZF Director of Finance and Operations

A. Welcome / Introduction

Susan Hartnett, Oregon Zoo Bond Citizens' Oversight Committee Chair, opened the meeting at 3:02 p.m., and members and staff introduced themselves.

Chair Hartnett announced that she is retiring in April, but returning to work part-time in May. She will continue to serve as chair of the Oversight Committee. Christine Taylor has returned to Miller Nash as an attorney, and Heidi Goertzen announced she will be moving to Becker Capital Management soon. Emma Stocker has agreed to serve as vice chair of the Committee, and is willing to cover a meeting if Chair Hartnett is gone.

Heidi Rahn introduced some new staff roles: Staci Pfau is the new zoo bond project manager who started in January, replacing the position vacated by Wayne Starkey, who moved to the private sector. Sarah Keane is now the zoo finance and administration program director, overseeing the administrative portion of the bond program since December 2018. As the former Finance Manager for the zoo, she provides a seamless transition. As the bond program winds down, Linnea Nelson's position as program coordinator was reduced to half time in January, and her skills leveraged to support half time another construction group at Metro Regional Center. Ms. Rahn will continue to oversee the construction portion of the zoo bond program.

B. Approval of Nov. 14, 2018, Oversight Committee meeting minutes

Members approved the minutes of the Nov. 14, 2018, Oregon Zoo Bond Citizens' Oversight Committee ("Oversight Committee" or "the Committee") meeting.

C. Program Status and Financial Information at a Glance

Chair Hartnett thanked members who participated in the email vote recommendation to the Metro Council to allocate existing contingency funds for Polar Passage/Primate Forest/Rhino Habitat (PPR) project and administrative costs. The Metro Council approved the budget reallocation via Resolution 19-4960 on Feb. 7, 2019, after testimony from Ms. Rahn, Don Moore and Chair Hartnett.

Ms. Rahn reviewed the spreadsheet showing the budget allocation. When the initial bids were received for PPR in December, staff knew that put the budget in Scenario B that had been reviewed with the Committee at its meeting in November 2018. Savings were taken from project budgets that had extra money -- Interpretives and Art -- and applied toward the reallocation. Updated forecasted interest earnings provided additional revenue, partly because the program hasn't spent much money since it has not been under construction lately. Caleb Ford explained that when Metro sold \$30 million in bonds, it was at very low interest rate. Metro is still holding some money from the interest earnings to pay the federal government for arbitrage, if needed, but was able to release some of the interest earnings for reallocation.

All of this added almost \$1 million to the unallocated resources. The budget reallocation added \$3.2 million to PPR and \$1.65 million to Administration. The intent was to make sure to leave projects whole, and the zoo in a good position to operate the bond-funded facilities. With \$844,000 left in the Close-out project fund, the bond program and the zoo are in good standing. The bond program has \$153 million for total program investments and is fortunate to have this good financial position. The guiding principles the Oversight committee set up were important for making the reallocation decision, and the Metro Council was supportive. The program is making sure to invest bond-restricted funds first, and leave funding from the Oregon Zoo Foundation until last, to have more

flexibility at end of the program. Any budget changes would have to go through Metro Council approval.

D. Monthly Project Updates

1. **Education Center** – The zoo is continuing to collect data from operations of the Education Center for a final report, to apply for certification on net-zero energy operations from the International Living Future Institute.

2. **Polar Passage/Primate Forest/Rhino Habitat** – The project is on track with permitting. Just the day before the Oversight Committee meeting, staff spent 2.5 hours with the City of Portland staff regarding permits for the PPR project. Staff expects to receive permits near the first of April [*post meeting, revised to mid-May*]. The project schedule is now showing June for permits, so if permits are received earlier than that, it could shorten the project schedule. While waiting for permits, staff are able to spend a lot of time reviewing the submittals from subcontractors, and it is nice to have time for a thorough review to make sure they will meet specifications. The project team is identifying some civil work that could be done without inspection, or possibly with city courtesy inspections, which the city offered. Jim Mitchell and Kate Giraud have built good relations with the permit staff at the city. Ms. Rahn noted that Mr. Mitchell has done a great job navigating the partnership, and also making the zoo a place contractors want to come to work. Ms. Giraud is helping and doing fantastic with the permits. Staff were able to significantly reduce the items the city had on its life safety check sheet required for the permit.

2. **Interpretive Experience** – No report.

3. **Percent-for-Art** – No report.

4. **Electrical Infrastructure** – The Generator Replacement project was behind schedule some, but combined some trench work on the middle service road with the PPR Early Work Package, which resulted in cost savings for the Generator project. The project is scheduled to be complete this spring.

E. Program Schedule

The bond program is still on schedule to wrap up toward the end of 2020.

F. Committee Annual Report

Chair Hartnett thanked everyone who contributed to the draft report, and acknowledged the subcommittee members:

Projects Subcommittee: Kevin Spellman and Emma Stocker, co-chairs; Chin See Ming; and Naomi Bishop.

Finances Subcommittee: Heidi Goertzen, chair; Daniel Hauser and Javier Mena.

Chair Hartnett reviewed reorganizing of the report, preparing for a comprehensive final product of the Committee at the end of the bond program. The completed projects have been moved to an appendix at the back of the report. Some of those descriptions have been expanded with more detail, and others will be expanded in a future report. A description of the how the bond measure started and an early advisory group has been added to the appendix as well.

The report is tentatively scheduled to be presented to the Metro Council on May 9, 2019. Today the Committee is focusing on the report's draft findings and recommendations, looking at themes and high-level discussion, and making sure the right program items are highlighted.

Ms. Stocker explained that some recommendations relate to past completed projects, but are included as gathered learning to serve for other Metro bond programs. The Committee wants the final document to include lessons learned and kudos.

The Committee proceeded to review the draft reports from the subcommittees, and noted edits to be made. The report is to cover activities for the calendar year 2018.

The Committee discussed some proposed recommendations for Metro regarding the Construction Career Pathways Project that were not specific to the bond program. Joel Morton concurred that this was okay. Councilor Shirley Craddick confirmed that the Metro Council would appreciate such recommendations that may help other bond programs. Metro now has an affordable housing bond oversight committee that has already met once. It is a different program, but has goals to achieve as well. Chair Hartnett added that she has used the zoo Oversight Committee as examples for city oversight committees, especially in terms of the Committee's structure and the orientation notebook and materials provided by staff.

Members discussed the new section covering how the bond measure started. Councilor Craddick felt that section would be applicable for other bond programs. She suggested interviewing the previous Council and OZF board members, to learn the tactics they used at the time to carry the bond effort.

Ms. Goertzen asked if the Committee should prepare a separate memo on this history, so it does not get lost in the report. Chair Hartnett felt that was a great idea to discuss and decide in the next year.

G. Zoo Update

Don Moore, Oregon Zoo director, gave an update. He sent an email to members recently regarding a media story, and clarified items that were misreported. The giraffe feeding platform is mostly paid by OZF, with some zoo operations funding, but no bond funds.

The Oregon Zoo social media consistently ranks as one of the top five zoos in the world.

This week was international women in science week. Two female zoo employees, veterinarian Kelly Flaminio and research and conservation manager Nadja Wielebnowski, received media attention. March will be women's history month, so the zoo plans to do a history focus on women leading zoo science at the Oregon Zoo for the past 50 years. The zoo expects a great following in March as well.

Julie Fitzgerald reported that OZF is feeling good about its fund raising for the bond construction, and is using it as an opportunity to build support for all things at the zoo. She is seeing really good support for the four-year campaign. OZF wants to have 65 percent raised by the end of June. By Dec. 30, the campaign was at 58 percent. Her staff is working on several large donations. Donors are amazed at the science at the zoo. The zoo is giving animals what they really need to thrive, and that gives visitors a chance to learn from it. In May, OZF will be inviting people to a special Zoo Rendezvous event.

H. Adjournment

Chair Hartnett adjourned the meeting at 5:02 p.m.

Upcoming 2019 meeting dates –Wednesdays, 3 to 5 p.m.:

May 8, 2019 Conservation Hall, Education Center, Oregon Zoo
Sept. 11, 2019 Conservation Hall, Education Center, Oregon Zoo
Nov. 13, 2019 Conservation Hall, Education Center, Oregon Zoo



Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

May 8, 2019

Agenda item C

Oregon Zoo Bond Citizens' Oversight Committee meeting

May 8, 2019

Agenda Item C. Monthly Project Status Reports

1. Polar Passage/Primate Forest/Rhino
2. Interpretive Experience – No report
3. Percent-for-Art
4. Electrical Infrastructure
5. Close-out project: Tree mitigation – No report



Oregon Zoo Bond Project Status Report Polar Passage/Primate Forest/Rhino

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

May 8, 2019

Agenda item C-1

| | |
|--|---|
| Project Title: Polar Passage/Primate Forest/Rhino | Project Manager: Jim Mitchell |
| Reporting Period #039/Status Date: April 26, 2019 | Project Manager Phone: 503-914-6025 |
| Architect/Engineering Design Consultant: CLR Design | Construction Manager/General Contractor: Lease Crutcher Lewis (LCL) |
| Polar Passage Project Description: The new polar bear habitat is needed to increase access to natural substrate; increase the efficiency of the water-filtration system; reduce temperatures; chill the pool water; and increase both land and pool space. Construct modern natural holding areas with better lighting and ventilation, allowing better care for the animals. Space requirements, water quality and housing conditions will meet or exceed the Manitoba Protocols established for zoo polar bears. New utilities will complete the system upgrade installed with previous bond-funded projects. Guest services will be enhanced at the new central plaza. | |
| Primate Forest/Rhino Project Description: The current schematic design demolishes the existing building (except for the newer Red Ape Reserve) and rebuilds on the current primate site for chimpanzees. Orangutans will live in the existing Red Ape Reserve. The Metro Council approved the project scope modifications on March 16, 2017. Rhino habitat: Remove the hippo dump-and-fill pool, remove the barrier between the rhino/hippo habitats and re-grade both habitats for rhino use only. | |

Status at a Glance

| Status Item | On Track | Caution | Off-track |
|-----------------------|----------|---------|-----------|
| Budget | X | | |
| Schedule and signoffs | | X | |
| Deliverables | X | | |

LEGEND:

| | |
|--|--|
| | Moving along nicely, no significant concerns at this time. |
| | Must be addressed or may be escalated to off-track mode. |
| | Causing significant impact to the project. |

Design and Construction Schedule

| START DATE | | COMPLETION DATE | |
|------------|----------|-----------------|------------------------|
| ESTIMATED | CONTRACT | ESTIMATED | SUBSTANTIAL COMPLETION |
| 05/2016 | 6/2016 | 11/2020 | TBD |

Project Budget and Expenditures

| ORIGINAL BASELINE | REVISED BASELINE | COSTS TO DATE OF STATUS | ESTIMATE AT COMPLETION | ESTIMATED BUDGET VARIANCE |
|-------------------|------------------|-------------------------|------------------------|---------------------------|
| \$34,348,074 | \$47,002,256* | \$8,756,750 | \$47,002,256 | \$0 |

*On Feb. 4, 2016, the Metro Council approved the bond team's recommendation to increase the Polar Passage project budget by \$2.6 million to cover escalation costs exceeding the original estimated escalation.

On March 16, 2017, the Metro Council approved additional bond fund resources increasing the Polar Passage project budget by \$3,248,334 (\$2,200,000 from OZF and 1,048,334 from the program contingency) and increased the Primate Forest/Rhino project budget by \$2,605,848 to offset escalation costs.

On April 6, 2017, the Metro Council approved an exemption to competitive procurement by combining Polar Passage and Primate/Rhino projects under the existing design and Construction Management/General Contractor contracts to save an estimated \$1.3 million in construction costs. Project budgets and schedules have been combined.

In August 2017, the Nancy Parr estate donation of \$237,333 for Primate Forest was added to the project budget.

On October 5, 2017, OZF approved \$750,000 (including the \$237,333 Nancy Parr estate donation) for Primate Forest and \$250,000 for Rhino.

On April 5, 2018, OZF approved redirecting \$500,000 previously committed for Polar Passage maternity den (which will not be built in this phase) to fund the rhino habitat project in total, \$750,000. Bond funds previously allocated for the rhino project will be redirected to the Polar Passage project.

On Feb. 7, 2019, the Metro Council allocated \$3,200,000 to the Polar Passage/Primate Forest/Rhino project (\$1,952,000 to the Polar Passage budget and \$1,248,000 to the Primate Forest budget) from unallocated contingency and other project savings.

Critical Issues

Schedule: The construction schedule in Status at a Glance is showing a “caution” due to the following:

- Unknown timeline related to permit review on the main project. Recent estimates are six to seven months; the construction schedule is showing five months.
- Permits intake occurred on December 5 and the current estimate is to issue in mid-May. The estimate increased from April to May due to continued review time. Bond staff continues to be diligent in responding to the City’s request for additional information or clarification.

Summary Status

Milestones/deliverables/information items for this reporting period:

- City of Portland permit review for the main construction package.

Construction progress:

- Permit review is in progress.
- The team is taking advantage of the period between the Early Work and the Main Work package by reviewing the product submittals, Building Information Modeling (BIM) and working through Request for Information on plan details so that when the permit is issued, the construction phase should be as smooth as possible.

Planned milestones/deliverables/information for the next reporting period:

- Secure permit by mid-May.
- The team is deliberating whether to start grading, trenching and utility installation and leave trenches open for inspection once the permit is issued.



Oregon Zoo Bond Project Status Report Percent-for-Art

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

May 8, 2019

Agenda item C-3

| | |
|--|--|
| Project Title: Percent-for-Art | Project Manager: Kate Giraud |
| Reporting Period #81/Status Date: April 29, 2019 | Project Manager Phone: 503-548-2677 |
| Project Description: Metro Council Resolution 11-4282 approved the recommendation to use the Percent-for-Art funds for zoo bond program programmatically rather than on a project-by-project basis. This enables a more strategic approach to the selection and installation of public art at the zoo and leverages the monies to greater effect for the public and the campus. | |

Status at a Glance

| Status Item | On Track | Caution | Off-track |
|-----------------------|----------|---------|-----------|
| Budget | X | | |
| Schedule and signoffs | X | | |
| Deliverables | X | | |

LEGEND:

| | |
|--|--|
| | Moving along nicely, no significant concerns at this time. |
| | Must be addressed or may be escalated to off-track mode. |
| | Causing significant impact to the project. |

Project Schedule

| START DATE | | COMPLETION DATE | |
|------------|---------|-----------------|---------|
| BASELINE | REVISED | BASELINE | REVISED |
| n/a | 10/09 | n/a | 11/20 |

Project Budget and Expenditures

| BUDGET BASELINE | COSTS TO DATE OF STATUS | ESTIMATE AT COMPLETION | ESTIMATED BUDGET VARIANCE |
|-----------------|-------------------------|------------------------|---------------------------|
| \$843,154* | \$737,297 | \$843,154 | \$0 |

*Budget baseline includes \$20,000 from an Oregon Cultural Trust grant and \$30,000 donated by the Oregon Zoo Foundation to help fund the Willard Martin Mosaic restoration and reinstallation efforts.

Critical Issues

None at this time.

Summary Status

Milestones/deliverables/information for this reporting period:

- Edwin and Veronica Dam de Nogales, the commissioned artist team for Polar Passage, have completed the finishing touches on the cast aluminum art pieces and prepared them for shipment to the Expo Center.
- The sculptures will be stored at the Expo Center until Polar Passage is nearly complete in the fall/winter of 2020.

Planned milestones/deliverables for the next reporting period:

- Successful shipment and storing of the commissioned artwork at the Expo Center.
- Finalize the Oregon Zoo Public Art Advisory Committee (OZPAAC) process report that documents the successful process for use with any possible future art investments at the zoo or elsewhere within Metro.



Oregon Zoo Bond Project Status Report Electrical Infrastructure

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting
May 8, 2019
Agenda item C-4

| | | | | | | | |
|---|---|-------------------------------|--|---|--------------------------------|-------------------------------|--------------------------|
| Project Title: Zoo Electrical Infrastructure | Project Manager: Lydia Neill Report by: Jim Mitchell | | | | | | |
| Reporting Period #22/Status Date: April 26, 2019 | Project Manager Phone: 503-220-2794 | | | | | | |
| Architect/Engineering Design Consultant: Sazan Group Engineering | General Contractor: High Point Construction, Tice Electric | | | | | | |
| <p>Project Description: The Electrical Infrastructure project replaces two outdated emergency power generators and associated electrical infrastructure critical to servicing animal areas and supporting animal and guest safety. It includes six subprojects – each with its own scope, schedule and budget – that are being managed by zoo Facilities Management and paid with zoo bond funds, per a signed Memorandum of Understanding with the zoo bond program. The final two projects are being overseen by the zoo bond construction manager, due to their complexity and scale:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1. Lower Service Road Feeders</td> <td style="width: 50%;">4. Animal Nutrition Center Panel Replacement</td> </tr> <tr> <td>2. Roundhouse Automatic Transfer Switch</td> <td>5. Middle Service Road Feeders</td> </tr> <tr> <td>3. AfriCafé Panel Replacement</td> <td>6. Generator Replacement</td> </tr> </table> <p>This project was added to the bond program by the Metro Council on March 16, 2017.</p> | | 1. Lower Service Road Feeders | 4. Animal Nutrition Center Panel Replacement | 2. Roundhouse Automatic Transfer Switch | 5. Middle Service Road Feeders | 3. AfriCafé Panel Replacement | 6. Generator Replacement |
| 1. Lower Service Road Feeders | 4. Animal Nutrition Center Panel Replacement | | | | | | |
| 2. Roundhouse Automatic Transfer Switch | 5. Middle Service Road Feeders | | | | | | |
| 3. AfriCafé Panel Replacement | 6. Generator Replacement | | | | | | |

Status at a Glance

| Status Item | On Track | Caution | Off-track |
|-----------------------|----------|---------|-----------|
| Budget | X | | |
| Schedule and signoffs | X | | |
| Deliverables | X | | |

LEGEND:

| | |
|--|--|
| | Moving along nicely, no significant concerns at this time. |
| | Must be addressed or may be escalated to off-track mode. |
| | Causing significant impact to the project. |

Design and Construction Schedule

| START DATE | | COMPLETION DATE | |
|------------|----------|-----------------|----------|
| ESTIMATED | CONTRACT | ESTIMATED | CONTRACT |
| 9/1/16 | various | 10/31/18 | 4/26/19 |

Project Budget and Expenditures

| ORIGINAL BASELINE | REVISED BASELINE | COSTS TO DATE OF STATUS | ESTIMATE AT COMPLETION | ESTIMATED BUDGET VARIANCE |
|-------------------|------------------|-------------------------|------------------------|---------------------------|
| \$1,500,000 | \$1,500,000* | \$1,403,788 | \$1,500,000 | \$0 |

*In March 2018, the project budget and estimate at completion were updated to reflect the removal of \$576,600 in resources from Portland General Electric; this amount was previously added to fund upgrades to zoo generators for Dispatchable Service Generation participation, but DSG costs exceeded the project budget and DSG was removed from the project scope.

Critical Issues

- Budget: The budget Status at a Glance has moved from “Caution” to “On Track” due to the project being in the punch list phase and all risk-related work complete.
- The largest risk to the budget was mitigated by combining the addition of electrical conduit in a trench already planned for the Polar Passage/Primate Forest/Rhino project. This meant the generator contractor had a seamless route for conductors rather than using existing infrastructure, which was damaged and the extent of damage unknown.

Schedule:

- The project is in the closeout stages and on track to have the punch list complete by the middle of May.

Electrical Infrastructure

Summary Status

Milestones/deliverables/information for this reporting period:

- The project is in the punch list stage.

Planned milestones/deliverables/information for the next reporting period:

- Complete punch list.



Oregon Zoo Bond Program
 Project Status and Financial Information at a Glance
 Expenditures and Revenue through March 2019

Oregon Zoo Bond
 Citizens' Oversight
 Committee Meeting
 May 8, 2019
 Agenda item D

| Program Budgets and Expenditures | | | | | | Project Budgets | Zoo Bond Fund Expenditures | Nonbond Fund Expenditures | Total Project Expenditures | Project Forecasted Total Expenditures |
|--|-----------------------------|-----------------------------------|-------------------|-----------------------------------|---------------------------|-----------------|----------------------------|---------------------------|----------------------------|---------------------------------------|
| Construction Projects | | | | | | | | | | |
| Veterinary Medical Center | Pre-Schematic Design | Design Development | Construction Docs | Contracting | Construction | \$ 9,464,299 | \$ 8,840,329 | | \$ 8,840,329 | \$ 8,840,329 |
| Penguin Life Support System | Complete | Complete | Complete | Complete | Complete | \$ 1,800,000 | \$ 1,762,250 | | \$ 1,762,250 | \$ 1,762,250 |
| Water Main Building | Complete | Complete | Complete | Complete | Complete | \$ 267,459 | \$ 242,495 | | \$ 242,495 | \$ 242,495 |
| Elephant Lands | Complete | Complete | Complete | Complete | Complete | \$ 57,561,443 | \$ 54,147,246 | \$ 3,260,000 | \$ 57,407,246 | \$ 57,407,246 |
| Condors of the Columbia | Complete | Complete | Complete | Complete | Complete | \$ 2,628,592 | \$ 2,215,609 | | \$ 2,215,609 | \$ 2,215,609 |
| Remote Elephant Center | | | | | Project Eliminated | \$ 117,864 | \$ 39,672 | \$ 78,191 | \$ 117,864 | \$ 117,864 |
| Education Center | Complete | Complete | Complete | Complete | Complete | \$ 17,699,157 | \$ 15,800,382 | \$ 1,613,343 | \$ 17,413,725 | \$ 17,482,791 |
| Polar Passage/Primate Forest /Rhino | Complete | Complete | Complete | Complete | 20% | \$ 47,002,256 | \$ 8,756,750 | \$ 500,878 | \$ 9,257,628 | \$ 47,002,256 |
| Electrical Infrastructure | | | | | 94% | \$ 1,500,000 | \$ 1,403,788 | | \$ 1,403,788 | \$ 1,500,000 |
| Close-out Contingency | | | | | | \$ 1,000,000 | \$ 28,638 | | \$ 28,638 | \$ 844,805 |
| Interpretives | | | | | | | | | | |
| Program Interpretive Experience | Condors Interp. | Elephants Interp. | Wayfinding | | | \$ 2,766,640 | \$ 2,226,759 | \$ 301,993 | \$ 2,528,752 | \$ 2,550,000 |
| | Complete | Complete | 95% | | | | | | | Note 3 |
| Percent-for-Art | | | | | | | | | | |
| One-Percent-for-Art Requirement | VMC Art | Art Program Planning | East Plaza Art | West Plaza Art | Central Plaza Art | \$ 843,154 | \$ 687,297 | \$ 50,000 | \$ 737,297 | \$ 810,000 |
| | Complete | Complete | Complete | Complete | 80% | | | | | Note 3 |
| Planning Projects | | | | | | | | | | |
| Comprehensive Capital Master Plan | Proposals Submitted | Contract Award | Interim Reports | Final Deliverables | Close-out | \$ 1,850,000 | \$ 1,691,504 | | \$ 1,691,504 | \$ 1,691,504 |
| Stormwater/ Wastewater Analysis | Complete | Complete | Complete | Complete | Complete | \$ 160,000 | \$ 159,979 | | \$ 159,979 | \$ 159,979 |
| Stormwater Minor Projects & Campus Surv | Complete | Complete | Complete | Complete | Complete | \$ 386,797 | \$ 386,797 | | \$ 386,797 | \$ 386,797 |
| Land Use Processes | | | | | | | | | | |
| Land Use – New CUMS | Project Scope and Baselines | Technical Studies and Application | Public meetings | Submit CU MS to City for Approval | Land Use Approval Process | \$ 796,785 | \$ 816,777 | | \$ 816,777 | \$ 816,777 |
| Land Use – Amended CUMS | Complete | Complete | Complete | Complete | Complete | \$ 110,429 | \$ 142,617 | | \$ 142,617 | \$ 142,617 |
| Program Administration | | | | | | | | | | |
| Program Administration, Metro Central Support and Bond Issuance - Note 1 | | | | | | \$ 8,850,000 | \$ 6,262,576 | | \$ 6,262,576 | \$ 8,850,000 |
| Unallocated Program Contingency | | | | | | | | | | \$ (0) |
| Unallocated Program Contingency - Note 1 | | | | | | | | | | |
| Expenditure Totals | | | | | | | \$ 105,611,464 | \$ 5,804,405 | \$ 111,415,869 | \$ 152,823,317 |

| Program Resources | Expected Amount | Zoo Bond Fund Revenues Received | Nonbond Revenues Received | Total Revenues Received/Issued | Funds Not Yet Received |
|--|-----------------|---------------------------------|---------------------------|--------------------------------|------------------------|
| General Obligation Bonds, premiums and interest - Note 4 | \$ 143,446,320 | \$ 143,233,992 | | \$ 143,233,992 | \$ 212,328 |
| Oregon Zoo Foundation | \$ 7,918,000 | | \$ 6,018,000 | \$ 6,018,000 | \$ 1,900,000 |
| Grants, donations, rebates and partner investments | \$ 1,458,998 | | \$ 1,458,998 | \$ 1,458,998 | \$ - |
| Resource Totals | \$ 152,823,317 | \$ 143,233,992 | \$ 7,476,998 | \$ 150,710,990 | \$ 2,112,328 |

Reports will show newly added items for two months' reports:

Note 1 - In Feb. 2019, the Metro Council allocated \$3,200,000 to the Polar Passage/Primate Forest/Rhino project (\$1,952,000 to the Polar Passage budget and \$1,248,000 to the Primate Forest budget) and \$1,650,000 to the Program Administration budget, taking the Unallocated Program Contingency to \$0.

Note 2 - In Jan. 2019, \$155,195 in savings from the Close-out Contingency was moved to the Polar Passage/Primate Forest/Rhino project budget.

Note 3 - In Jan. 2019, savings from two nearly completed projects (\$216,640 from Interpretives and \$33,154 from Percent for Art) were moved to Unallocated Program Contingency. This combined with an increased projection in interest earnings increased the Unallocated Program Contingency to \$4,694,805.

Note 4 - In Jan. 2019, the interest revenue forecast increased by \$750,000 to \$2.75 million.



PROJECTS SCHEDULE
Oregon Zoo Bond Program
 As of April 24, 2019

Oregon Zoo Bond Citizens'
 Oversight Committee Meeting
 May 8, 2019
 Agenda item E

| Task Name | Start | Finish | 2019 | | | | 2020 | | | | 2021 | | |
|---|----------|----------|---|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| | | | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | | |
| Projects Schedule | | | | | | | | | | | | | |
| Water Main Building | 10/1/09 | 1/13/21 | | | | | | | | | | | |
| Veterinary Medical Center | 10/26/09 | 7/29/11 | | | | | | | | | | | |
| Veterinary Medical Center | 11/12/09 | 1/24/12 | | | | | | | | | | | |
| Land Use Permits | 3/16/10 | 1/28/13 | | | | | | | | | | | |
| Comprehensive Capital Master Plan | 6/2/10 | 11/3/11 | | | | | | | | | | | |
| Penguinarium Filtration | 11/1/10 | 2/29/12 | | | | | | | | | | | |
| Condors of the Columbia | 7/25/12 | 3/4/14 | | | | | | | | | | | |
| Elephant Lands | 11/7/11 | 12/7/15 | | | | | | | | | | | |
| Percent for Art | 10/1/09 | 6/25/20 | Percent for Art | | | | | | | | | | |
| VMC Commissioned Art | 10/1/09 | 1/24/12 | | | | | | | | | | | |
| Art Conservation/Remove-Relocate Art | 5/16/12 | 6/30/18 | Art Conservation/Remove-Relocate Art | | | | | | | | | | |
| Major Art Commission #1 (Elephant Lands) | 5/13/13 | 9/30/15 | | | | | | | | | | | |
| Major Art Commission #2 (Education Center) | 4/1/14 | 11/30/16 | | | | | | | | | | | |
| Major Art Commission #3 (Polar Passage) | 3/1/16 | 6/25/20 | Major Art Commission #3 (Polar Passage) | | | | | | | | | | |
| Interpretive Experience | 3/19/12 | 9/25/20 | Interpretive Experience | | | | | | | | | | |
| Interpretive Roadmap | 3/19/12 | 9/30/12 | | | | | | | | | | | |
| Condors of the Columbia Interpretives | 6/14/12 | 3/7/14 | | | | | | | | | | | |
| Elephant Lands Interpretives | 6/25/12 | 11/13/15 | | | | | | | | | | | |
| Wayfinding Design/Solicitation | 3/17/14 | 12/31/15 | | | | | | | | | | | |
| Wayfinding Construction/Install Pylons/4 Kiosks | 1/2/16 | 6/28/17 | | | | | | | | | | | |
| Wayfinding Install Central Plaza Kiosk; Post-construction | 8/3/20 | 9/25/20 | | | | | | | | | | | |
| Education Center | 3/21/13 | 6/30/17 | | | | | | | | | | | |
| Early Demolition | 3/21/13 | 6/12/13 | | | | | | | | | | | |
| RFP Design | 1/21/14 | 4/18/14 | | | | | | | | | | | |
| Design | 4/21/14 | 9/11/15 | | | | | | | | | | | |
| Construction | 9/15/15 | 12/28/16 | | | | | | | | | | | |
| Post Construction | 12/29/16 | 6/30/17 | | | | | | | | | | | |
| Polar Passage/Primate Forest/Rhino | 2/9/16 | 1/13/21 | Polar Passage/Primate Forest/Rhino | | | | | | | | | | |
| RFP Design | 2/9/16 | 6/20/16 | | | | | | | | | | | |
| Polar Passage Design | 6/21/16 | 5/13/18 | Polar Passage Design | | | | | | | | | | |
| Primate Forest/Rhino Design | 11/17/16 | 8/31/18 | Primate Forest/Rhino Design | | | | | | | | | | |
| Construction | 6/4/18 | 11/13/20 | Construction | | | | | | | | | | |
| Post Construction | 11/16/20 | 1/13/21 | Post Construction | | | | | | | | | | |
| Electrical Infrastructure | 10/6/16 | 12/5/18 | Electrical Infrastructure | | | | | | | | | | |



Please see the complete report provided as a separate document.

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting
May 8, 2019
Agenda item F.



Oregon Zoo Bond Citizens' Oversight Committee

CALENDAR YEAR 2018 REPORT

Presented April 2019 to the Metro Council and the community



Date: Tuesday, April 30, 2019
To: Oregon Zoo Bond Citizens' Oversight Committee
From: Grant Spickelmier, Curator of Inspiration, Learning and Action, Oregon Zoo
Subject: **Education Center Outcomes**

The Oregon Zoo Bond Citizens' Oversight Committee reports annually on progress on Zoo Bond investments. In the committee's 2017 annual report, members requested an update regarding the programming and operations of the new Education Center. This report summarizes the primary activities taking place in the Oregon Zoo Education Center and provides a general update of progress towards accomplishing its goals.

Goals

The Education Center transformed the west side of the zoo's campus. Its goals were to:

1. Build zoo audiences' understanding that *small things matter* – in nature, conservation and personal actions. Small things aggregate to have a big impact.
2. Inspire zoo visitors to take conservation action (use less, explore nature, give back, speak out).
3. Engage more diverse audiences in conservation education.
4. Raise the visibility and support the work of nature, conservation and sustainability organizations by connecting them with zoo audiences.
5. Generate revenue to offset operation costs.
6. Showcase green living and sustainable practices (achieve LEED gold or higher).

Status Report

Goal 1 – Build zoo audiences' understanding that *small things matter* – in nature, conservation and personal actions. Small things aggregate to have a big impact.

The zoo hired external evaluator Terry O'Connor to measure progress on our goals related to building conservation awareness, motivation and action (Goals 1 and 2). For several months in 2018, Ms. O'Connor completed a multi-modal summative evaluation of the interpretive impact of the Education Center including a visitor survey, timing and tracking study and short interviews with visitors. Results overwhelmingly indicated that visitors found the exhibits in the Nature Exploration Station, Insect Zoo and Wildlife Garden engaging and educational.

Key results:

- 96% of those interviewed agreed that they believe small actions can have an impact on wildlife
- 66% reported that their appreciation for the importance of insects and other small animals was greater now than before their visit

Visitors were asked to describe the main message of the Nature Exploration Station. Responses included:

- "Keeping people aware of the environment. Small things matter."
- "Insects are not bad. Ecosystems are complicated. Each is important!"
- "We need to pay a little more attention to things that most people think of as insignificant. They are as worthwhile as anything in the zoo. Even small insects can go extinct..."

Goal 2 – Inspire zoo visitors to take conservation action (use less, explore nature, give back, speak out).

Key Results:

Of visitors asked to provide feedback on what was most valuable to them during their visit to the Education Center:

- 79% said “Learning practical ways to help wildlife”
- 79% said “Reading stories of local people taking action to help wildlife”
- 80% said “Seeing how to attract pollinators to my yard, garden or container garden”
- 76% said “Seeing how to turn even a small planting space into wildlife habitat”
- 83% of visitors agreed that they found the information needed to take conservation actions at home, school and work.
- 63% said that their commitment to making sustainable choices to protect natural resources and wildlife habitat was greater than before their visit.

Specific actions that visitors reported that they were likely to take as a result of their visit include (note – does not include people who reported that they were already doing this behavior):

- Use FSC-certified wood and paper product 47%
- Put decals on your windows to prevent bird strikes 47%
- Create a rain garden with native plants 46%
- Choose reusable, recyclable and non-toxic materials when renovating 45%
- Repair broken household items rather than buying new 43%
- Grow native plants to attract pollinating insects and birds that eat garden pests 39%

Goal 3 – Increase Capacity for Conservation Education

The Education Center provides a primary hub for education activities formerly housed across the zoo and greatly increases our capacity for educational programming.

Features:

- Seven new classrooms and three tent sites.
- Effective new entrance for drop-off/pick-up of school groups and Zoo Camp.
- New technologies in the Pika Science Lab that encourage inquiry.
- New early childhood classroom (Acorn) with furniture scaled for small children.
- New work space for Zoo Teens and Zoo Animal Presenters (ZAPs)

Results:

- Summer camps increased from 3,004 to 3,715 participants – a 24% increase in attendance from 2015 to 2018.
- Spring break camp just broke all attendance records with 779 participants this year.
- Zoo Snooze overnights saw a 19% increase in attendance the year after the Education Center opened.
- Launched new Critter Club early childhood program with 286 participants in 2018.
- Zoo Teens engaged more than 214,000 visitors in educational interactions, including more than 42,000 in the Nature Exploration Station and new Insect Zoo.
- In the first year after opening, ZAPs delivered 45 additional outreaches to 1,930 additional people, for a total audience of more than 9,500 children and their family members.
- Donations to Oregon Zoo Foundation are enabling more than 6,000 third graders from Title 1 schools across the region to visit the zoo and attend ZooSchool.
- More than 95,000 students, teachers and chaperones used the new school group entry during class field trips last year.

Goal 4 – Raise the visibility and support the work of nature, conservation and sustainability organizations by connecting them with zoo audiences.

The zoo aimed to establish at least eight partnerships. To our delight, thirty organizations signed up initially, with 25 participating in some sort of programming over the last year. U.S. Fish and Wildlife Service, Oregon Department of Fish and Wildlife and the Metro Natural Gardening program all have hired additional staff or interns to provide programming at the center. Other highlights include:

- Partners reported engaging more than 20,000 guests in 2018.
- Oregon State University Extension Service master gardener volunteers engaged nearly 14,000 zoo visitors in the Wildlife Garden, providing tips on how to make backyards and communities more wildlife-friendly.
- Embedded U.S. Fish and Wildlife staff Leah Schrodtt helped develop “CSI-Conservation Science Investigators” summer camp, featuring federal officers that prosecute wildlife trafficking in the U.S. This camp curriculum is now being offered to other zoos across the country.
- Conservation Hall in the center continues to provide an interesting venue for our partners and has recently hosted the Street Trust Active Transportation Summit, the US Fish and Wildlife Service’s tribal eagle summit and educator workshops for the Portland Children’s Museum.
- 71% of visitors said that their understanding of Oregon Zoo’s involvement in conserving native species was greater now than before.
- 60% of visitors indicated that talking with representatives from the zoo’s partner organizations such as the U.S. Fish and Wildlife Service was valuable to them.

Goal 5 - Generate revenue to offset costs of operating the building and grounds of the education center.

The Education Center was designed to expand revenue generation through retail food sales and catering and to provide additional revenue-generating space. Trends for all areas are up. Here are some highlights:

- Camp, class and overnight revenue has increased by nearly \$200,000 since the Education center opened.
- 2018 summer Zoo Camp revenues were up nearly 5% from 2017.
- Food and beverage sales from catering and Coffee Crossing were \$722,587 in 2018, well above initial projections and 2017 numbers.

Goal 6 – Showcase green living and sustainable practices (achieve LEED gold or higher)

The zoo’s intent was to create “buildings that teach” through inspiring use of sustainable materials and technologies. Design features, such as toilets flushed with harvested rainwater and digitally-controlled high-efficiency lighting and HVAC systems, help us meet our sustainability goals and lower operational costs. Other highlights include:

- The Center recently earned LEED Platinum certification with 82 points.
- Bird-friendly glass and lighting designed by the American Bird Conservancy.
- Solar arrays deliver more than 200 kilowatts of electricity, putting this on track to be the first “Net Zero Energy” zoo facility in the country and made possible in part by Portland General Electric Renewable Development Fund customers.
- Ninety species of Willamette Valley native plants within the landscape require less irrigation and provide food and shelter for native wildlife.
- Rainwater collected from the roof is stored in a 10,000-gallon underground storage tank and used to flush toilets and urinals with excessive nuisance groundwater used during the dry summer months.

- The Center has won several sustainable architecture awards including being named a Top Ten Committee on the Environment award winner for the American Institute of Architects (after winning the 2030 sustainable architecture award from the Portland AIA chapter). The Center also was awarded the Energy Trust of Oregon's High Performance Building Award for New Construction by the Daily Journal of Commerce.

Moving forward

The Education Center at the Oregon Zoo has quickly become a local pillar of conservation education, with an impact that will continue to deepen each year. Things to look forward to in the coming months include:

- The zoo hosting informational meetings in Conservation Hall to discuss the release of an experimental population of condors in northern California
- A new walking stick tank in the center of the Insect Zoo
- Washed Ashore exhibit sculptures in the NEST and on the patio in spring/summer 2020.

cc: Zoo Bond Steering Group