



**OREGON DEPARTMENT OF TRANSPORTATION**  
**SPR Project Quarterly Progress Report**  
October 1<sup>st</sup>, 2023 – December 31<sup>st</sup>, 2023

Research Section  
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**Date:** February 16, 2024

**To:** Technical Advisory Committee Members:  
Curran Mohny (ODOT), *Project Champion*  
Paris Edwards (ODOT)  
Mike Brinton (ODOT)  
Mike Tardif (ODOT)  
Adam Young (UCSD)  
Ben Haines (FHWA)  
Kira Glover-Cutter, *Chair* (ODOT)

**1. Project**

Coastal Landslide and Bluff Retreat Monitoring for Climate Change Adaptation and Targeted Risk Assessment  
SPR # 807

**2. Project Investigators**

Mike Olsen (Michael.Olsen@oregonstate.edu)  
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**3. Project Coordinator**

Kira Glover-Cutter, Ph.D.  
Research Analyst and Coordinator

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**4. Key Dates**

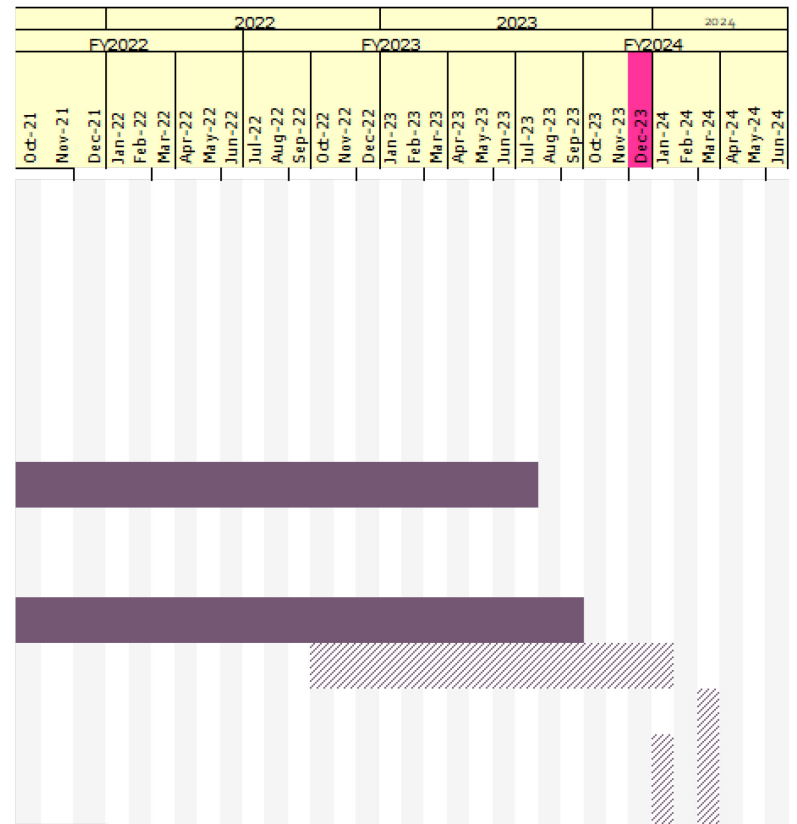
Project start date: July 14, 2016  
 Project completion date: July 31, 2024

**5. Overall Project Progress**

SPR-807 COASTAL LANDSLIDE AND BLUFF RETREAT MONITORING FOR CLIMATE CHANGE AD

Select a period to highlight at right. Current Period to Highlight: **December 2023**  
 Chart start date: July 2016

Tasks	Projected Start	Projected Duration (in months)	Actual Start	Actual Duration (in months)	Percentage Completed
1- Select sites and develop instrumentation plan	July 2016	2	July 2016	2	100%
2- TAC Meeting #1	August 2016	1	August 2016	1	100%
3- Draft Literature Review	May 2017	4	May 2017	4	100%
4- Instrumentation of sites	August 2016	5	August 2016	5	100%
5- Draft Research Methodology	October 2016	6	October 2016	6	100%
6- Data Collection	October 2016	82	October 2016	82	100%
7- Interim report	April 2019	6	April 2019	6	100%
8- TAC Meeting #2	September 2019	2	September 2019	2	100%
9- Data Analysis and Modeling	October 2021	24	October 2021	24	100%
10- Draft Final Report	October 2022	16	October 2022		85%
11- TAC Meeting #3	March 2024	1	March 2024		0%
12- Final Report	January 2024	3	January 2024		0%
13- Review Final Research Note	January 2024	3	January 2024		0%



## 6. Progress for Quarter

Specific Progress and Problems during the Quarter of this Report

- Updated erosion analysis with Spring 2023 data and created new plots.
- Continued drafting of final report and organizing material to include as appendices.
- Gave presentation at the World Landslide Forum.
- Submitted abstract to NWTC.

Work Planned for the Coming Quarter

- Finish drafting final report and submit to ODOT.
- Schedule final TAC meeting with ODOT
- Give presentation at the NWTC.
- Prep data for ODOT transfer.
- Address TAC comments on final report.

**Task 1: Select representative coastal landslide and bluff sites for monitoring and develop instrumentation plan.**

**Time Frame:** August 2016

Percent complete at the end of this report's quarter: 100%

**Task 2: TAC Meeting #1**

**Time Frame:** August 2016

Percent complete at the end of this report's quarter: 100%

**Task 3: Draft Literature Review**

**Time Frame:** August 2017

Percent complete at the end of this report's quarter: 100%

**Task 4: Instrumentation of sites.**

**Time Frame:** December 2016

Percent complete at the end of this report's quarter: 100%

**Task 5: Draft Research Methodology**

**Time Frame:** March 2017

Percent complete at the end of this report's quarter: 100%

**Task 6: Data Collection**

**Time Frame:** July 2023

Percent complete at the end of this report's quarter: 100%

**Task 7: Interim report**

**Time Frame:** September 2019

Percent complete at the end of this report's quarter: 100%

**Task 8: TAC Meeting #2**

**Time Frame:** October 2019

Percent complete at the end of this report's quarter: 100%

**Task 9: Data Analysis and Modeling**

**Time Frame:** August 2023

Percent complete at the end of this report's quarter: 100%

**Task 10: Draft Final Report**

**Time Frame:** by March 2024

Percent complete at the end of this report's quarter: 85%

**Task 11: TAC Meeting #3**

**Time Frame:** by April 2023

Percent complete at the end of this report's quarter: 0%

**Task 12: Final Report**

**Time Frame:** Before June 2024

Percent complete at the end of this report's quarter: 0%

**Task 13: Review Final Research Note**

**Time Frame:** Before June 2024

Percent complete at the end of this report's quarter: 0%

**7. Project Status**

This was a tremendous and highly successful research effort by a talented OSU team of professors and graduate students. Looking forward to the final report and TAC meeting. This work supported multiple SPR research project efforts and will assist with the recently funded SPR878. Implementation of the RTK-GNSS methodology well underway in R3 South Coast slides.

**8. Finances**

SPR Project Budget Summary Table

VENDOR	FY'17	FY'18	FY'19	FY'20	FY'21	FY'22	FY'23	FY'24	TOTALS
ORIGINAL BUDGET	\$ 299,857	\$ 43,857	\$ 42,565	\$ 45,280	\$ 42,577	\$ 84,886	\$ 62,815	\$ 12,163	\$ 634,000
WORK PLAN BUDGET	\$ 297,857	\$ 45,857	\$ 44,565	\$ 45,280	\$ 44,577	\$ 98,886	\$ 61,815	\$ 12,000	\$ 650,837
<b>REVISED BUDGET</b>	<b>\$ 305,166</b>	<b>\$ 59,613</b>	<b>\$ 54,813</b>	<b>\$ 77,367</b>	<b>\$ 71,309</b>	<b>\$ 101,154</b>	<b>\$ 74,738</b>	<b>\$ 49,677</b>	<b>\$ 793,837</b>
EXPENDITURES - VENDOR	\$ 305,166	\$ 59,613	\$ 54,813	\$ 77,367	\$ 71,309	\$ 101,154	\$ 87,389	\$ -	\$ 756,811
<b>BALANCE</b>	<b>\$ 0</b>	<b>\$ (0)</b>	<b>\$ (0)</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ (0)</b>	<b>\$ (12,651)</b>	<b>\$ 49,677</b>	<b>\$ 37,026</b>
ODOT	FY'17	FY'18	FY'19	FY'20	FY'21	FY'22	FY'23	FY'24	TOTALS
ORIGINAL BUDGET	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 18,000	\$ 6,000	\$ 4,837	\$ 58,837
<b>REVISED BUDGET</b>	<b>\$18,677</b>	<b>\$2,506</b>	<b>\$5,113</b>	<b>\$6,055</b>	<b>\$5,525</b>	<b>\$7,657</b>	<b>\$13,691</b>	<b>\$24,309</b>	<b>\$ 83,533</b>
EXPENDITURES - ODOT	\$ 18,677	\$ 2,506	\$ 5,113	\$ 6,055	\$ 5,525	\$ 7,657	\$ 5,753	\$ -	\$ 51,285
<b>BALANCE</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ (0)</b>	<b>\$ 7,938</b>	<b>\$ 24,309</b>	<b>\$ 32,248</b>
PROJECT	FY'17	FY'18	FY'19	FY'20	FY'21	FY'22	FY'23	FY'24	TOTALS
ORIGINAL BUDGET	\$ 305,857	\$ 49,857	\$ 48,565	\$ 51,280	\$ 48,577	\$ 102,886	\$ 68,815	\$ 17,000	\$ 692,837
<b>REVISED BUDGET</b>	<b>\$ 323,843</b>	<b>\$ 62,119</b>	<b>\$ 59,926</b>	<b>\$ 83,422</b>	<b>\$ 76,834</b>	<b>\$ 108,811</b>	<b>\$ 88,429</b>	<b>\$ 73,986</b>	<b>\$ 877,370</b>
EXPENDITURES - PROJECT	\$ 323,843	\$ 62,119	\$ 59,926	\$ 83,421	\$ 76,834	\$ 108,811	\$ 93,141	\$ -	\$ 808,095
<b>BALANCE</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ (0)</b>	<b>\$ 1</b>	<b>\$ 0</b>	<b>\$ (0)</b>	<b>\$ (4,712)</b>	<b>\$ 73,986</b>	<b>\$ 69,275</b>