2014 – 2019 Surface Water Program Capital Improvement Plan





Oak Lodge Sanitary District 14611 SE River Road Oak Grove, OR 97267 503.653.1653

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Executive

Summary

Limited resources, combined with increasing stormwater infrastructure performance demands, make Oak Lodge Sanitary District's 2014-2019 Surface



Water Capital Improvement Plan (SWCIP) essential to achieve the goals and objectives of the District's Surface Water Masterplan and MS4 Permit.

The SWCIP uses objective criteria to evaluate and prioritize surface water improvement projects. The SWCIP assigns available revenues to projects to achieve the District's goals to address regional water quality priorities, and to recognize the vision set by the community and the Board of Directors.

The 2014 – 2019 Capital Plan includes 12 capital projects with a total value over \$9,000,000. The average annual OLSD SWM capital expenditure (over the 6 year period between FY 14 and FY19) is \$530,000. The balance represents funding leveraging, such as securing project funding through grants and partner funding agreements.

Questions or comments regarding the content or development of this program can be directed to OLSD at (503) 653-1653.

WHAT IS IN THE STORMWATER CAPITAL IMPROVEMENT PLAN?

The remainder of this document includes:

- A description of SWM capital funding revenue
- The six-year program funding matrix.
- A summary of project identification and project development phases
- An index and map of the projects included in the program.
- Detail sheets for active surface water projects in the six-year program.

Introduction

The Oak Lodge Sanitary District is responsible for water quality improvement projects within the communities of Oak Grove and Jennings Lodge, Oregon.

Although not formal cities, this portion of unincorporated Clackamas County is heavily urbanized with residential, commercial, and industrial development. A recent analysis of the District revealed



that the Total Impervious Area for OLSD's total acreage is 80% -- that's about 2800 acres of paved surface, all of which contributes to increased water velocity and scour in local streams, and the majority of which contributes pollutants into the surface water system, including streams and rivers.

The Surface Water Capital Improvement Plan, and associated capital improvement projects, identifies large scale projects to address water quality improvement needs in the District. These projects are large in scale and expenditure, and are not maintenance projects (maintenance projects are captured elsewhere in OSLD's surface water program). Surface Water capital projects generally include a variety of complexities and require several years to develop. In some cases, the resulting project becomes a capitalized asset for OSLD.

This report summarizes the status of the capital plan and projects over a 6 year period, between 2014 and 2019.

Surface Water Capital Fund Balance

Oak Lodge Sanitary District charges customers a monthly surface water fee, which covers all surface water program operations. Annual revenue changes slightly (based on the number of customers), but is generally approximately \$1.1M annually. In FY14, \$1.13M of SWM fee revenue will be collected. Of this revenue, 74% (\$841,510) is budgeted to be used on administrative and operational costs of the surface water program. This includes salary/benefits, administrative overhead, and operational supplies and materials. The remaining 26% (\$295,089 for FY14) is revenue for the SWM Capital Fund (Account 300-300). If revenue is not fully utilized, any balance carries forward into the following fiscal year.

Currently, the District has a fund balance in the FY 2014 SWM CIP fund budget in the amount of \$2,308,891. This funding is specifically for capital projects, and independent of administrative

and operational SWM budget funds. Over the past 10 years, SWM capital funds have not been fully utilized, and a fund balance now exists.

The chart below (Figure 1) shows projected expenditures over the course of this 6-year CIP based expenditures for multiple projects. In this chart, new revenue remains steady (in order to increase this line, the monthly SWM fee would need to increase, or the number of customers would need to increase). The expenditure line shows fund use over the years.

Generally, early project development phases are not successful in securing grant funds or outside agency funding sources to pay for the early analysis and studies, so the District is using CIP funds to get the project started; this shows up in the high expenditure numbers for FY 14 as several projects are in this beginning phase. However, the plan assumes use of grant funds and partner agency funds for construction phases, which is commonly when other agencies want to participate. This means OLSD's expenditure in these phases is less because of offsets from other sources of money (grants, partnering money, etc). Since many large capital projects are at or near the same phase, sequencing the expenditure over time is important to manage the overall capital budget, but keep projects developing toward construction (completion).

The current 6-year plan indicates a deficit of SWM CIP funds starting in FY 18. This means that assuming no new revenue is generated, all SWM Capital resources would be exhausted if the current expenditures occur completely according to this plan.

One option to avoid a negative fund balance is to increase SWM fee revenue by generating additional funds through transfer from the sanitary sewer revenue. Note that this is not increasing customer bills. Assigning \$1/mo that is already collected to the SWM program will result in an additional \$162,000/year of SWM capital revenue. If that scenario started in FY2015, then the additional revenue generated would maintain a positive fund balance while allowing all of the expenditures as planned for the current project list.

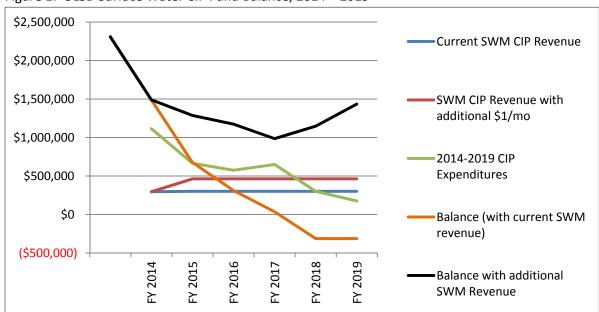


Figure 1: OLSD Surface Water CIP Fund Balance, 2014 – 2019

Capital Project Identification

Projects within the Surface Water Capital Improvement Program include new regional stormwater treatment facilities, retrofits of existing facilities, installation of roadside facilities, such as "rain gardens", upgrades of existing storm lines and catchbasins, and natural resource restoration projects.

We collect suggestions or ideas for capital projects throughout the year, and then evaluate the projects annually through this process. Most surface water capital projects require multi-year funding in order to design and construct, which requires long term financial planning.

Project costs are projected over time, and by project phase. Capital projects generally have five phases:



Concept: activities in the conceptual phase of a project include early project scoping, baseline date collection, community input solicitation, and preliminary engineering design. Usually, after this phase, the District has a solid understanding of the project's type, size and location, and a cost estimate.

Right of Way: This term, which is common to public agencies, reflects all uses associated with using and acquiring private property for public projects. This can include property research and appraisals, land acquisition, relocation of homeowners or businesses, and acquisition of easements (temporary construction access easements, conservation easements, etc).

Design: This phase covers all aspects of final engineering design, including civil, environmental, hydraulic and structural studies and engineering, acquisition of all required permits, and development of construction bidding and plan documents. A final construction cost estimate is also prepared in this phase.

<u>Construction</u>: All construction related activities are covered in this phase, generally this phase starts at the time when the District puts a project out for a construction contract bid, through the active construction, and is finalized when the construction contract is closed out.

<u>Post Construction</u>: Many activities occur as a part of a capital project after the end of construction; this includes site monitoring and long term maintenance, close out reports, and mitigation reporting (which can go for up to 10 years in some cases).

6-Year Capital Project Funding Matrix

After establishing the project list, available SWM program dollars are assigned to projects with consideration to the following:

- Regional stormwater priorities.
- Available SWM funds.
- Available Grant funds
- Available project partnership opportunities

The six-year program matrix (see Appendix A) displays only those projects that have funding in at least one phase of the project during the next six years. The funding matrix reconciles total program funding needs with projected fund availability based on current revenue estimates.

There are several funding sources available for engineering/design, right-of-way land purchases, and construction of surface water capital projects. The OLSD Surface Water Management Fund (specifically, the 300-300 SWM Line Extension/Replacement budget item) provides the principal source of dollars and leverages grants and developer funds. This local money is supplemented by federal, state and local dollars administered through different agencies.

The matrix also summarizes total annual capital planning costs. This includes costs for OLSD to cover, as well as the total project value.

Project Summaries

Each project identified in this plan has a project summary page (see Appendix B), which provides more information about the project purpose, schedule, and budget. As each project progresses, specific project details, such as report, plans, and specifications, emerge through the project management processes at OSLD. The status of all projects is updated annually when the Capital Improvement Plan is update. Specific project updates can be provided to the Board of Directors upon request or periodically throughout the year.

Appendix A: SWM CIP Funding Matrix

2014 - 2019 6 Year Surface Water Capital Improvement Plan, Funding Matrix

	Project		Spent to Date		2013-	14 (FY 14, ends 6/30/14)	2014-1	5 (FY 15, ends 6,	/30/15)	2015-16 (FY 16, ends 6	/30/16)	2016-17 (FY 17, end	s 6/30/17)	2017-	18 (FY 18, ends 6	5/30/18)	2018-	-19 (FY 19, ends 6/30/19)		
Project Name	ID	Phase	(OLSD)	Total		Grants/Loans Other		Grants/Loans		OLSD Grants/Loans		OLSD Grants/Loans		OLSD	Grants/Loans	Other	OLSD	Grants/Loans Other	NOTES	
		Concept		\$ -																
Decades a Metarch of Initiative		ROW		\$ -																
Boardman Watershed Initiative: Phase 1 (Stringfield Park		Design	\$ 41,900	\$ 100,743															Per existing IGA with NCPRD; FY14	
Improvements)	SB-03	Construction	\$ 167,500	\$ 1,000,000															final year of payments	
improvements)		Post Construction	\$ 24,000	\$ 12,000																
		Total	\$ 233,400	\$ 1,112,743		12,000	\$		-	\$	-	\$	-	\$	1	-	\$	-		
		Concept	\$ 193,000	\$ 193,000			¢ 200.000		<u>^</u>										4	
Boardman Watershed Initiative:	CD OO	ROW		\$ 350,000 \$ 550,000	\$ 50,000 \$ 350,000		\$ 300,000		\$ -	\$ 100,000	\$ 100,000			_						
Phase 2 (Walta Vista and River Road	SB-08	Design Construction		\$ 2,500,000	\$ 350,000	\$ -	\$ -	ċ	ċ	\$ - \$ 500,000		\$ 150,000 \$ 500,0	00 \$ 350,000	\$ 50,000	\$ 250,000	\$ 400,000	\$ -	c c	Preliminary Engineering Complete	
Culvert Replacement)		Post Construction		\$ 2,500,000			ş -) -	ş -	\$ - \$ 300,000	\$ 500,000	\$ 150,000 \$ 500,0	00 \$ 350,000	\$ 10,000	\$ 250,000	\$ 400,000	\$ 25,000	т т	(30% Design Milestone)	
		Total	\$ 193,000	\$ 3,628,000	¢	500,000	¢		300,000	¢	1,000,000	¢	1,000,000			710,000		25,000	_	
		Concept	\$ 29,750	\$ 200,000			\$ -		300,000	Ş	1,000,000	ý.	1,000,000	, ,	1	710,000	,	23,000		
		ROW	\$ 25,750	\$ 50,000		\$ - \$ -	\$ 25,000			\$ 25,000									4	
Boardman Watershed Initiative:	SB-17	Design		\$ 150,000	\$ -	\$ -	\$ 150,000			23,000		 		+				 	Assumes MNIN Acquisition Grant	
Phase 3 (Boardman Wetland	30 17	Construction		\$ 900,000	\$ -	\$ - \$ -	\$ -	\$ -	\$ -	\$ 200,000 \$ 250,000		\$ 200,000 \$ 250,0	00						for \$200K to purchase four parcel	
Complex)		Post Construction		\$ -	7	7	7	т	7	\$ -		\$ -		\$ -			\$ -		1	
		Total	\$ 29,750	\$ 1,300,000	Ś	100,000	Ś		175,000	\$	475,000	1 .	450,000	Ś	1	-	Ś	-		
		Concept	,	\$ 10,000	•						,,,,,,,			\$ 10,000						
		ROW		\$ 5,000		s - s -								\$ 5,000						
Boardman Watershed Initiative:	SB-01	Design		\$ 25,000	\$ -	\$ - \$ -				\$ -				\$ 25,000					Project identified in previous CIP'	
Paradise Stormwater Facility		Construction		\$ 250,000	\$ -	\$ - \$ -				\$ -				\$ 150,000			\$ 100,000		HOA is willing participant	
Retrofit		Post Construction		\$ -	\$ -	\$ - \$ -				\$ -		\$ -		\$ -			\$ -			
		Total	\$ -	\$ 290,000	\$	-	\$		-	\$	-	\$	-	\$		190,000	\$	100,000		
		Concept		\$ -																
Boardman Watershed Initiative		ROW		\$ -																
Boardman Watershed Initiative:	SB-16	Design	\$ 38,876	\$ 69,333	\$ 54,333														Project should be constructed in	
Naef Road Culvert Replacement and Channel Restoration		Construction		\$ 500,000				<u> </u>		\$ 250,000		\$ 250,000							coordination with SB-08	
Chainlei Restoration		Post Construction		\$ -																
		Total	\$ 38,876	\$ 569,333	\$	54,333	\$		-	\$	250,000	\$	250,000	\$		-	\$	-		
		Concept		\$ -																
		ROW		\$ -	\$ -	\$ - \$ -													Project models the effect of	
Boardman Watershed Initiative:		Design		\$ -	\$ -	\$ - \$ -													construction of CIP's into basin	
Watershed Hydraulic Modeling	BB-01	Construction		\$ -			\$ -			\$ -									performance (i.e., flooding	
		Post Construction		\$ -															reduced by XX feet)	
		Total	\$ -	\$ -	\$	<u> </u>	\$		-	\$	-	\$	-	\$		-	\$	<u> </u>		
		Concept		\$ -	\$ -		\$ -			\$ - \$ -		\$ - \$ -							<u>_</u>	
Kellogg Avenue Sidewalk: Green		ROW		\$ -	\$ -	\$ - \$ -				\$ -		\$ -							<u></u>	
Infrastructure Demonstration	RF-31	Design		\$ -	\$ -	\$ - \$ -								\$ -	\$ -		\$ -	\$ -	Project construction completed i	
(pervious pavement)		Construction	\$ 195,000	\$ 365,000	\$ 25,000	\$ 170,000	\$ -			\$ -									2013	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Post Construction		\$ -						<u> </u>									4	
		Total	\$ 195,000	\$ 365,000	\$	195,000	\$		-	\$	-	\$	-	\$	1 +	-	\$	- 1-		
		Concept		\$ -	\$ -		\$ -			\$ - \$ -	\$ -	\$ -		Ş -	\$ -	\$ -	\$ -	\$ - \$ -		
Jennings Avenue Sidewalk: Green		ROW		\$ -	\$ -	\$ - \$ -				\$ - \$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ - \$ -	Project currently on hold pending	
Infrastructure Demonstration	CD 40	Design		\$ -	\$ -	\$ - \$ -	ć	ć	ć	\$ - \$ -	\$ -	\$ -	ć	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	County funding in order to procee	
(Raingardens or Pervious	SB-18	Construction		\$ -		\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	with design	
Pavement)		Post Construction Total	ė	\$ - \$ -	ć		ć			Ć		ć				1	ć		4	
			ş -	\$ -	\$ -		\$		- I	\$ ¢ ¢	- I ċ	\$ -	<u>-</u>	\$ ¢	I ć	- I ċ	\$	Té Té		
		Concept ROW		,	T	¢ ¢	ş -			\$ - \$ -	٠ د	\$ -		ş -	\$ -	\$ -	\$ - c	\$ - \$ -	Per existing IGA with Clackamas	
Bluff Road Repaying and		Design	1	\$ - \$ 15,000	\$ - \$ 15,000	\$ - \$ -	 			\$ - \$ -	- د	٠ د -	+	- د	÷	٠ د	٠ د	\$ - \$ -	County, Paving partially complete	
Stormwater Infrastructure	WR-16	Construction		\$ 15,000			\$ -	\$ -	\$ -	ý - 3 - ¢ - ¢	\$ -	ý - ¢ - ¢	¢	ς .	\$.	\$ -	\$.	¢ _ ¢	Fall 2013, the remainder in	
Stormwater illinastructure	****-10	Post Construction		\$ 43,000	7 45,000	14		y -	[¥	· ·	Ť	<u> </u>	<u> </u>	 	1	<u> </u>	ľ	<u> </u>	Summer 2014	
		Total	\$ -	\$ 60,000	Ś	60,000	Ś		_	\$	-	Ś		Ś	1	-	Ś	-	33101 2014	
		Concept		\$ 25,000						\$ - \$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ - \$ -		
		ROW		\$ 400,000			\$ 100,000			\$ - \$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ - \$ -		
McLoughlin Boulevard Corridor		Design		\$ 65,000		\$ - \$ -	\$ 65,000				\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	+ '	Identify land to purchase and	
Regional Stormwater Facility	BB-02	Construction		\$ -	\$ -	· ·			\$ -		\$ -		\$ -			\$ -		\$ -	build regional stormwater facilit	
,		Post Construction		\$ -		<u> </u>													_	
		Total	\$ -	\$ 490,000	\$	325,000	\$		165,000	\$	-	\$	-	\$		-	\$			
		Concept		\$ -	\$ -	T. T.	\$ -	\$ -	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ - \$ -		
Courtney Series - Berlin Baris		ROW		\$ 600,000	\$ -	\$ - \$ 600,000			\$ -	\$ - \$ -	\$ -	\$ -			\$ -	\$ -		\$ - \$ -	Project grant agreement; OLSD	
Courtney Springs Basin: Regional		Design		\$ 86,000					\$ -	\$ - \$ -	\$ -	\$ -		1	1	\$ -		\$ -	responsible for long term	
Stormwater Facility and Riparian	CS-01	Construction		\$ 776,942		\$ 288,471			\$ 288,471	\$ - \$ -	\$ 200,000		\$ -			\$ -		\$ -	maintenance of Courtney Spring	
Restoration		Post Construction		\$ 100,000								\$ 50,000		\$ 50,000			\$ 50,000		Riparian Corridor behind Elks	
		Total	\$ -	\$ 1,562,942	\$	974,471	\$		288,471	\$	200,000		50,000	\$		50,000		50,000		
		Concept		\$ -	\$ -	T	\$ -	\$ -		\$ -	\$ -			\$ -	\$ -	\$ -	\$ -			
Decades a Web ask ad Latter		ROW		\$ 2,000	\$ 2,000	\$ - \$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ -			\$ -	\$ -		\$ - \$ -	Project to remove accumulated	
Boardman Watershed Initiative:		Design		\$ 5,000			\$ 5,000	\$ -	\$ -	\$ - \$ -	\$ -	\$ -				\$ -		\$ -	sediment from channel, major	
Phase 6 (Channel Reestablishment,	SB-19	Construction		\$ 20,000			\$ 20,000		\$ -	\$ - \$ -	\$ -		\$ -			\$ -		\$ -	- challenge is gaining property	
Boardman Ave to Roethe Rd)		Post Construction		\$ -															access	
		Total	\$ -	\$ 27,000	\$	2,000	\$		25,000	\$	-	\$	-	\$		-	\$			
										TOTALS										
						EV 1/I	r	EV 15		EV 16		EV 17		1	EV 19		T	EV 10		

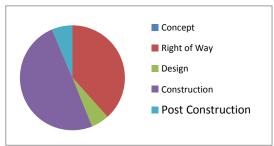
	TOTALS																	
		FY 14			FY 15			FY 16			FY 17			FY 18			FY 18	
Revenue Sources	OLSD	Grants/Loans	Other	OLSD	Grants/Loans	Other	OLSD	Grants/Loans	Other	OLSD	Grants/Loans	Other	OLSD	Grants/Loans	Other	OLSD	Grants/Loans	Other
Annual Totals by Funding	\$ 1,114,333	\$ -	\$ 1,108,471	\$ 665,000	\$ -	\$ 288,471	\$ 575,000	\$ 750,000	\$ 600,000	\$ 650,000	\$ 750,000 \$	350,000	\$ 300,000	\$ 250,000	\$ 400,000	\$ 175,000	\$ -	\$ -
	Concept /			Concept /			Concept /			Concept /			Concept /			Concept /		
	Design	ROW	CN/PCN	Design	ROW	CN/PCN	Design	ROW	CN/PCN	Design	ROW	CN/PCN	Design	ROW	CN/PCN	Design	ROW	CN/PCN
Annual Totals by Phase (all parties)	\$ 730,333	\$ 952,000	\$ 540,471	\$ 220,000	\$ 425,000	\$ 308,471	\$ 200,000	\$ 25,000	\$ 1,700,000	\$ -	\$ - !	1,750,000	\$ 35,000	\$ 5,000	910,000	\$ -	\$ -	\$ 175,00
Annual Totals	¢		2 222 804	¢		953 //71	¢		1 925 000	¢		1 750 000	¢	<u> </u>	950 000	¢		175 00

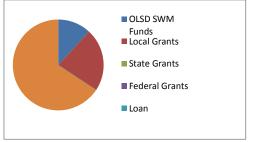
Appendix B: Capital Project Summaries

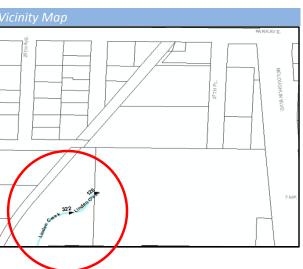
		Project Summary						
Project Number:	CS-01	SWM/Water Quality						
Project Name:	Courtney S	orings Riparian Restoration and Regi	onal Stormwater Facility					
Project Manager:	TriMet							
Basis for Project:	Water Quality, Natural Resource Restoration							
Timeline:		2010 - 2014						
	Reestablish ri	parian zone on Courtney Springs cre	ek behind Elks Lodge,					
	build regiona	l stormwater facility to treat McLoug	hlin Corridor runoff south					
Project Description:								
	OLSD is partn	ered with TriMet to perform long te	rm site maintenance on					
Notes:	reestablished	riparian zone through Metro grant						

Status: December 2013: Active Construction

Project Cost Summary		Funding Summary	
Concept	\$ -	OLSD SWM Funds	\$ 186,000
Right of Way	\$ 600,000	Local Grants	\$ 349,305
Design	\$ 86,000	State Grants	\$ -
Construction	\$ 776,942	Federal Grants	\$ -
Post Construction	\$ 100,000	Loan	\$ -
Total	\$ 1,562,942	Other (TriMet)	\$ 1,027,637
		Total	\$ 1,562,942



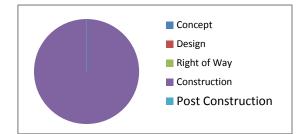


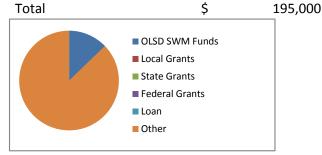


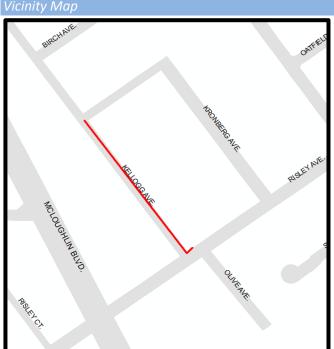
		-						
		Project Summary						
Project Number:	RF-31	Project Type:	SWM/Water Quality					
Project Name:	K	Kellogg Avenue Sidewalk/ Stormwater Demonstration Project						
Project Manager:		Clackamas County						
Basis for Project:	Demonstration Stormwater Project, Pervious Pavement							
Timeline:	2013 - 2014							
Project Description:		County is building a new sidewalk on I be pervious pavement. OLSD is suppo						
Notes:	Design inclu	udes pervious pavement and a new bi	ioswale along Kellogg Avenue					

Status: December, 2013: Construction complete

Project Cost Summary		Funding Summary	
Concept	\$ -	OLSD SWM Funds	\$ 25,000
Design	\$ -	Local Grants	\$ -
Right of Way	\$ -	State Grants	\$ -
Construction	\$ 365,000	Federal Grants	\$ -
Post Construction	\$ -	Loan	\$ -
Total	\$ 365,000	Other	\$ 170,000
		-	405.000







		Project Summary					
Project Number:	SR-16	Project Type: SWM/Water Quality					
Project Name:		Bluff Road Paving and Stormwater Infrastructure					
Project Manager:	er: Clackamas County						
Basis for Project:		New Stormwater Infrastructure					
Timeline:		2013					

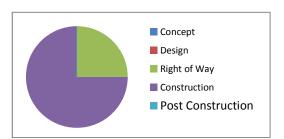
Through existing IGA, Clackamas County is repaving Bluff Road (Laurie to Fair **Project Description:** Oaks) and adding stormwater infrastructure to address runoff problems.

Notes: OLSD is supporting NCPRD financially in this project through a 2013 IGA

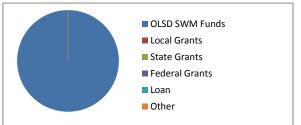
December, 2013: Majority of paving completed in summer, 2013; small portion

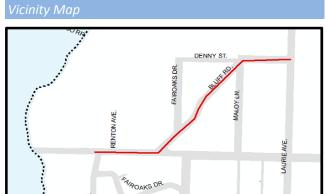
Status: remaining in 2014 (good paving weather ran out)

Project Cost Summary	
Concept	\$ -
Design	\$ -
Right of Way	\$ 15,000
Construction	\$ 45,000
Post Construction	\$ -
Total	\$ 60,000



Funding Summary	
OLSD SWM Funds	\$ 60,000
Local Grants	\$ -
State Grants	\$ -
Federal Grants	\$ -
Loan	\$ -
Other	\$ -
Total	\$ 60,000





MADRONA CT.

		Project Summary							
Project Number:	BB-01	Project Type:	SWM/Water Quality						
Project Name:		Boardman Basin Watershed Hyd	draulic Modelling						
Project Manager:		OLSD							
Basis for Project:	Establisl	Establish conditions under 2-, 5-, 10- and 25- year storm conditions							
Timeline:		Estimated state 20	016						
	Develop hydra	ulic model for the Boardman Basi	n; determine system						
	performance u	nder variable conditions and inco	rporating implementation						
Project Description:	function of CIP	projects.							
	Need other pro	oject designs to develop sufficient	ly in order to pursue watershed						
Notes:	modelling to ev	valuate project performance							

Status:	No activity currently
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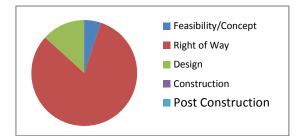
Project Cost Summary			Funding Summary
Concept	\$	-	OLSD SWM Funds
Design	\$	-	Local Grants
Right of Way	\$	-	State Grants
Construction	\$	-	Federal Grants
Post Construction	\$	-	Loan
Total	\$	-	Other
			Total
	Concept		
	Concept		
	Design		
	Right of Way		·
	Construction		•
	■ Post Constructi	on	'
			'

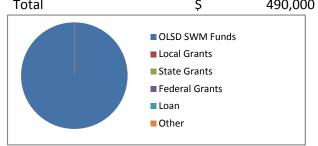
	OLSD SWIM Funds	\$	-
	Local Grants	\$	-
	State Grants	\$	-
	Federal Grants	\$	-
	Loan	\$	-
	Other	\$	-
	Total	\$	-
		OLSD SWM Funds	
		■ Local Grants	
		■ State Grants	
		■ Federal Grants	
		Loan	
		■ Other	

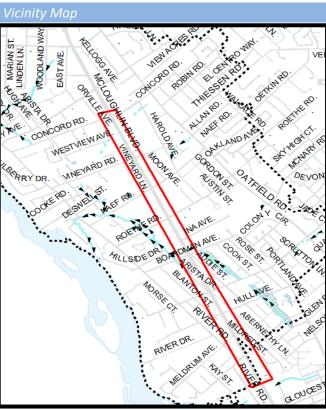
Project Summary					
Project Number:	BB-02	Project Type:	SWM/Water Quality		
Project Name:	McLouglin Corridor Regional Stormwater Facility				
Project Manager:		OLSD			
Basis for Project:	Water Quality Retrofits				
Timeline:	2014 - 2019				
	Identify location to acquire and construct a regional stormwater facility to provide water quality treatment to the McLoughlin Corridor and Boardman				
Project Description:	Basin developments.				
	Note: current scope includes site identification and feasibility analysis; design				
Notes:	will need to be developed to determine construction cost				

Status: Preliminary Scoping and Property Acquisition

Project Cost Summary		Funding Summary		
Feasibility/Concept	\$ 25,000	OLSD SWM Funds	\$	490,000
Right of Way	\$ 400,000	Local Grants	\$	-
Design	\$ 65,000	State Grants	\$	-
Construction	\$ -	Federal Grants	\$	-
Post Construction	\$ -	Loan	\$	-
Total	\$ 490,000	Other	\$	-
		Total	¢	400 000







Project Summary						
Project Number:	SB-03	Project Type:	SWM/Water Quality			
Project Name:	e: Boardman Watershed Initiative: Phase 1 (Stringfield Park Improvements)					
Project Manager:	NCPRD					
Basis for Project:	Water Quality and Flow/Drainage Improvement					
Timeline:	2010 - 2014					

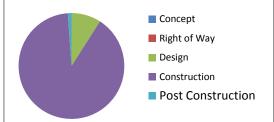
Project Description: Restore channel function and riparian zone in Stringfield Park.

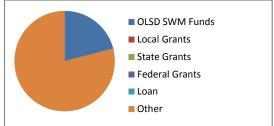
OLSD is supporting NCPRD financially in this project through a 2010 IGA, OLSD

Notes: participated in design, construction and post construction.



	Funding Summary		
\$ -	OLSD SWM Funds	\$	233,400
\$ -	Local Grants	\$	-
\$ 100,743	State Grants	\$	-
\$ 1,000,000	Federal Grants	\$	-
\$ 12,000	Loan	\$	-
\$ 1,112,743	Other	\$	879,343
	Total	\$	1,112,743
\$ \$ \$ \$ \$	\$ - \$ 100,743 \$ 1,000,000 \$ 12,000	\$ - OLSD SWM Funds \$ - Local Grants \$ 100,743 State Grants \$ 1,000,000 Federal Grants \$ 12,000 Loan \$ 1,112,743 Other	\$ - OLSD SWM Funds \$ \$ - Local Grants \$ \$ 100,743 State Grants \$ \$ 1,000,000 Federal Grants \$ \$ 12,000 Loan \$ \$ 1,112,743 Other \$





Project Summary				
Project Number:	SB-01	Project Type:	Water Quality	
Project Name: Paradise Subdivision Stormwater Facility Retrofit				
Project Manager:		OLSD		
Basis for Project:		Water Quality and Detention Retrofit		
Timeline:		2017-2018		

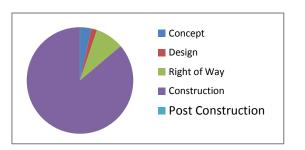
Retrofit old/existing stormwater facility to meet current detention and water

Project Description: quality function standards.

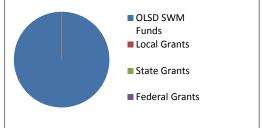
Notes: Paradise Subdivision HOA is a willing partner on this project

Status: No activity currently

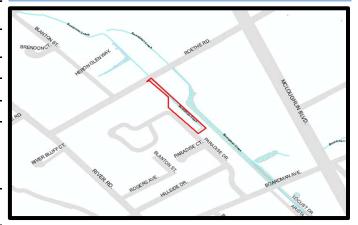
Project Cost Summary					
Concept	\$	10,000			
Design	\$	5,000			
Right of Way	\$	25,000			
Construction	\$	250,000			
Post Construction	\$	-			
Total	\$	290,000			



Funding Summary	
OLSD SWM Funds	\$ 207,966
Local Grants	\$ -
State Grants	\$ -
Federal Grants	\$ -
Loan	\$ -
Other	\$ -
Total	\$ 207,966



Vicinity Map



Project Summary					
Project Number:	SB-08	Project Type:	SWM/Water Quality		
Project Name: Bridge Construction at Walta Vista Dr. and River Road					
Project Manager:		Clackamas County			
Basis for Project: Flow/Drainage and Fish Passage Improvement					
Timeline:		2013 - 2018			

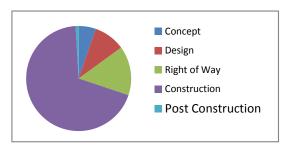
Replace two undersized culverts with bridges, rebuild 520' of Boardman Creek $\,$

Project Description: to address hydraulic capacity, incorporate fish passage requirements

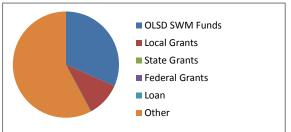
Notes: OLSD is supporting Clackamas County with funds for this project

Status: December, 2013: 30% Design Complete, seeking funds

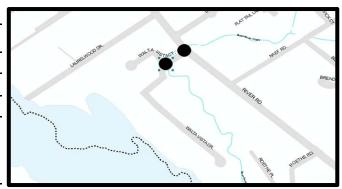
Project Cost Summary		Funding Summary
Concept	\$ 193,000	OLSD SWM Funds
Design	\$ 350,000	Local Grants
Right of Way	\$ 550,000	State Grants
Construction	\$ 2,500,000	Federal Grants
Post Construction	\$ 35,000	Loan
Total	\$ 3,628,000	Other
		-



Funding Summary	
OLSD SWM Funds	\$ 1,203,000
Local Grants	\$ 400,000
State Grants	\$ -
Federal Grants	\$ -
Loan	\$ -
Other	\$ 2,200,000
Total	\$ 3,803,000



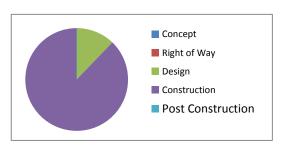
Vicinity Map



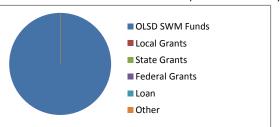
			2017		
		Project Summary			
Project Number:	SB-16	Project Type:	SWM/Water Quality		
Project Name:		Naef Road Culvert Repla	acement		
Project Manager:		OLSD			
Basis for Project:		Flow/Drainage and Fish Passage Improvement			
Timeline:	2013 - 2016				
Project Description:	Remove undersized 60"culvert, replace with correct size opening (18' box culvert or small bridge), remove 160' of piped stream channel and restore to natural channel (north of Naef road)				
Notes:		should be constructed in coordinatio zed (hydraulics and fish passage), wil			

Status: December, 2013: 30% Design Complete

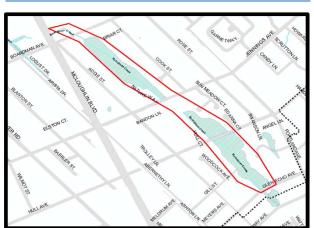
Project Cost Summary	
Concept	\$ -
Right of Way	\$ -
Design	\$ 69,333
Construction	\$ 500,000
Post Construction	\$ -
Total	\$ 569,333



Funding Summary	
OLSD SWM Funds	\$ 569,333
Local Grants	\$ -
State Grants	\$ =
Federal Grants	\$ -
Loan	\$ =
Other	\$ =
Total	\$ 569,333



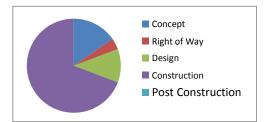
Project Summary					
Project Number:	SB-17	Project Type:	SWM/Water Quality		
Project Name:		Boardman-Rinearson Wetla	nd Complex		
Project Manager:		OLSD			
Basis for Project:	Water (Water Quality, Water Quantity, Wetland and Habitat Restoration			
Timeline:	2013 - 2018				
Project Description:	Enhance wetla property acqui	nd function and water storage ca sition	pacity, likely including some		
Notes:	Strong commu ODFW, Clackar	nity support for this project, stake nas County	eholders include JL CPO, NCPRD,		

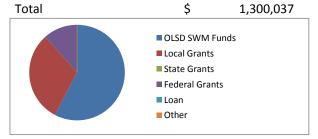


Vicinity Map

Status: December 2013: Baseline Data collection complete, starting Preliminary Design

Project Cost Summary		Funding Summary		
Concept	\$ 200,000	OLSD SWM Funds	\$	750,037
Right of Way	\$ 50,000	Local Grants	\$	400,000
Design	\$ 150,000	State Grants	\$	-
Construction	\$ 900,000	Federal Grants	\$	150,000
Post Construction	\$ -	Loan	\$	-
Total	\$ 1,300,000	Other	\$	-
		Total	¢	1 200 027





FOUSHEE WAY.

		4	2017	
		Project Summary		Vicinity
Project Number:	SB-18	Project Type:	SWM/Water Quality	
Project Name:	Jennin	gs Avenue Sidewalk Project/ Sto	rmwater Demonstration	
Project Manager:		Clackamas Coun	ty	2
Basis for Project:	Water Quality Demonstration			
Timeline:	2013 - 2017			JOHLIN BLUD
	Clackamas County is developing this project to build a new sidewalk on Jennings Avenue from Oatfield to River Road. Potential for LID BMP's such as bioswales,			WE.
Project Description:	raingardens or	pervious pavement.		ARISTA D
Notes:	OLSD is supporting CC DTD financially in this project			ONST
Status:	Scoping			** ** ** ** ** ** ** ** ** ** ** ** *

Status:	Scoping

•	·		
Design	\$	-	
Right of Way	\$	-	
Construction	\$	-	
Post Construction	\$	-	
Total	\$	-	
	■ Concept		
	Design		
	■ Right of Way		
	Construction		
	Post Construction		

Project Cost Summary

Concept

Funding Summary		
OLSD SWM Funds	\$	-
Local Grants	\$	-
State Grants	\$	-
Federal Grants	\$	-
Loan	\$	-
Other	\$	-
Total	\$	-
	OLSD SWM Funds	
	Local Grants	
	■ State Grants	
	■ Federal Grants	
	Loan	
	Other	

			7017 2017	
		Project Summary		
Project Number:	SB-19	Project Type:	SWM/Water Quality	
Project Name:		Boardman Creek Channel Re	ehabilitation	
Project Manager:	Oak Lodge Sanitary District			
Basis for Project:		Channel Restoration/ Water Quality		
Timeline:	2014-2015			
	•	oves accumulated fine sediment and reek between Roethe Rd. and Board	· ·	

Notes: Project development requires private landowners to sign access agreements

Status: Permitting, Access Agreements

27,000

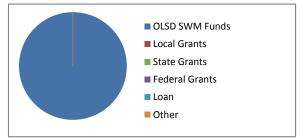
Project Description: with anoxic biological conditions due to extreme stagnation.

Project Cost Summary	
Concept	\$ -
Right of Way	\$ 2,000
Design	\$ 5,000
Construction	\$ 20,000
Post Construction	\$ -

ConstructionPost Construction	■ Concept■ Right of Way■ Design

Total

Funding Summary	
OLSD SWM Funds	\$ 27,000
Local Grants	\$ -
State Grants	\$ -
Federal Grants	\$ -
Loan	\$ -
Other	\$ -
Total	\$ 27,000



Vicinity Map

