

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPT-470-14

Name: DELAVAN LAKE SD: LMI-Permeable Paver Roadway - Delavan Lake Association, Inc.

Type: Lakes Grant

Subtype: Lake Protection Grant

Status: COMPLETE

Start Date: 10/1/2013

End Date: 12/31/2014

Purpose: The Delavan Lake Sanitary District will partner with the Assembly Park subdivision to facilitate the installation of 243,000 square feet of permeable pavers for a 25.4 acre subdivision. Approximately 5 acres of local paved roads will be removed and replaced with permeable pavers. Assembly Park will enter into a 10 year maintenance agreement with the Delavan Lake Sanitary District to retain the pavers. The project deliverables include a narrative detailing the installation of the pavers and a photo essay documenting each step of the construction project.

Objective:

Comments: Grantee is DELAVAN LAKE SD

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Delavan Lake Sanitary District	GRANT_RECIPIENT	ACTIVE	10/1/2013	12/31/2014	Delavan Lake Sanitary District	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Lakes Protection Grant		10/1/2013	12/31/2014	PROPOSED
Project Deliverable	The project deliverables include a narrative detailing the installation of the pavers and a photo essay documenting each step of the construction project.	10/1/2013	12/31/2014	PROPOSED
Runoff Grant - Urban Nonpoint Source & Stormwater Management - Construction	installation of 243,000 square feet of permeable pavers for a 25.4 acre subdivision. Approximately 5 acres of local paved roads will be removed and replaced with permeable pavers.	10/1/2013	12/31/2014	PROPOSED

Details: Parameter	Value/Amount	Units	Comments
Developed Urban Areas: Other (Please Specify)			
Fueling and Maintenance Areas: Oily sheen presence			
Infiltration: % Pre-development stay-on volume			

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Details: Parameter	Value/Amount	Units	Comments
Infiltration: Cubic feet stay-on volume			
NR 216: 20-40% Reduction in TSS - % reduction			
NR 216: 20-40% Reduction in TSS - Pounds reduced			
Peak Flow Discharge: Change in cubic feet per second			
Protective Areas: Feet of bank protected			
Streambanks: Feet of bank protected			
Streambanks: Tons of bank erosion reduced			
non NR 216: 20-40% Reduction in TSS - % reduction			
non NR 216: 20-40% Reduction in TSS - Pounds reduced			

Grant Awarded	The Delavan Lake Sanitary District will partner with the Assembly Park subdivision to facilitate the installation of 243,000 square feet of permeable pavers for a 25.4 acre subdivision. Approximately 5 acres of local paved roads will be removed and replaced with permeable pavers. Assembly Park will enter into a 10 year maintenance agreement with the Delavan Lake Sanitary District to retain the pavers.	10/1/2013	12/31/2014	COMPLETE
Partnership Project	The Delavan Lake Sanitary District will partner with the Assembly Park subdivision to facilitate the installation of 243,000 square feet of permeable pavers for a 25.4 acre subdivision. Approximately 5 acres of local paved roads will be removed and replaced with permeable pavers.	10/1/2013	12/31/2014	COMPLETE

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
740200	1	Army Lake	Army Lake
740400	1	Booth Lake	Booth Lake
740400	2	Memorial Park at Booth Lake Beach, Booth Lake	Booth Lake
740550	1	Ceylon Lagoon	Ceylon Lagoon
740700	1	Wandawega Lake	Lake Wandawega
741200	1	North Lake	North Lake
741400	1	Peters Lake	Peters Lake

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741500	1	Pleasant Lake	Pleasant Lake
741700	1	Silver Lake	Silver Lake
741800	1	Swift Lake	Swift Lake
741900	1	Un Lake	Unnamed
741980	1	Un Lake	Millpond Park Pond
742700	1	Nippersink Creek, North Branch	North Branch Nippersink Creek
743400	1	Nippersink Creek, East Branch	East Branch Nippersink Creek
743400	2	Nippersink Creek, East Branch	East Branch Nippersink Creek
743500	1	Local Water	Unnamed
743600	1	Pell Lake	Pell Lake
743800	1	Tombeau Lake	Tombeau Lake
743900	1	Benedict Lake	Benedict Lake
744000	1	Local Water	Unnamed
744200	1	Powers Lake	Powers Lake
744300	1	Unnamed Stream	Unnamed
744400	1	Nippersink Creek, West Branch	West Branch Nippersink Creek
744500	1	Un Lake	Unnamed
744600	1	Local Water	Unnamed
744800	1	Knobb Pond	Goose Pond
744900	1	Local Water	Unnamed
745200	1	Peterkin Pond	Peterkin Pond
751200	1	White River	White River
751200	2	White River	White River
751500	1	Honey Creek	Honey Creek
751500	2	Honey Creek	Honey Creek
751500	3	Honey Creek	Honey Creek
751500	4	Honey Creek	Honey Creek
751500	5	Honey Creek	Honey Creek
751500	6	Honey Creek	Honey Creek
751500	7	Honey Creek	Honey Creek
752100	1	Sugar Creek	Sugar Creek
752300	1	Honey Lake	Honey Lake (Vienna)
752400	1	Spring Brook Creek	Spring Brook
752400	2	Spring Brook	Spring Brook
752500	1	Spring Brook, North Branch	Unnamed

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752800	1	Unnamed Lake	Unnamed
753000	1	Baker Creek	Baker Creek
753100	1	Perennial Stream A (Spp1)	Unnamed
753500	1	Perennial Stream D (B4)	Unnamed
753600	1	Perennial Stream E (B5)	Unnamed
753800	1	Potter Lake	Potter Lake
753900	1	Spring Creek	Spring Creek
754000	1	Unnamed Stream	Unnamed
754200	1	Unnamed Lake	Hilburn Pond
754400	1	East Troy Pond (Trent)	East Troy Pond (Trent)
754600	1	Unnamed Trib to Honey Creek	Unnamed
754800	1	Unnamed Trib to Honey Cr	Unnamed
755100	1	Perennial Stream B (Tm2)	Unnamed
755300	1	Cedar Grove Pond	Cedar Grove Pond
755500	1	Lauderdale Lakes	Lauderdale Lakes
755600	1	Mill Lake	Mill Lake
755700	1	Middle Lake	Middle Lake
755800	1	Green Lake	Green Lake
756200	1	Lake Ivanhoe Outlet (Spring Valley Creek)	Spring Valley Creek
756500	1	Unnamed	Unnamed
756600	1	Un Lake	Unnamed
756700	1	Ivanhoe Lake	Lake Ivanhoe
756900	1	Indian Run Creek	Indian Run Creek
757000	1	Ore Creek	Ore Creek
757100	1	Ore Creek, Second Branch	Second Br Ore Creek
757200	1	Ore Creek, First Branch	First Br Ore Creek
757400	1	Lyons Millpond	Lyons Millpond
757500	1	Unnamed Stream	Unnamed
757600	1	Como Creek	Como Creek
757700	1	Unnamed Stream	Unnamed
757900	1	Como Lake	Como Lake
758100	1	Un Lake	Unnamed
758300	1	Lake Geneva	Geneva Lake
758300	2	Linn/Robinson Public Beach, Lake Geneva	Geneva Lake
758300	3	Hr1 Robinson Hillside Beach	Geneva Lake

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758300	4	Big Foot Beach SP Swim Area, Geneva Lake	Geneva Lake
758300	5	City of Lake Geneva Public Beach, Geneva Lake	Geneva Lake
758300	6	Linn Pier Road Beach, Geneva Lake	Geneva Lake
758300	7	Village of Fontana Public Beach, Geneva Lake	Geneva Lake
758300	8	Williams Bay Public Beach, Geneva Lake	Geneva Lake
758400	1	Lightbody Creek	Lightbody Creek
758500	1	Harris Creek	Harris Creek
758600	1	Southwick Creek	Southwick Creek
758700	1	Potawatomi Creek	Potawatomi Creek
758800	1	Van Slyke Creek	Van Slyke Creek
765500	1	Mukwonago River	Mukwonago River
765500	5	Mukwonago River	Mukwonago River
766300	1	Lake Beulah Outlet	Lake Beulah Outlet
766600	1	Beulah Lake	Lake Beulah
766700	1	Local Water	Unnamed
766900	1	Swan Lake	Swan Lake
767000	1	Local Water	Unnamed
767100	1	Pickerel Lake	Pickerel Lake
767200	1	Un Lake	Unnamed
767600	1	Un. Trib. to Mukwonago River (adjacent Rainbow Springs Lake)	Unnamed
768800	1	Lulu Lake	Lulu Lake
768900	1	Un. Trib. to Lulu Lake feeder stream	Unnamed
777500	1	Lake Lorraine	Lake Lorraine
777600	1	Lake Number 10	Lake Number Ten
780800	1	Un Lake	Unnamed
781250	1	Un Lake	Congdon Park Pond
788900	1	Piscasaw Creek	Piscasaw Creek
790300	1	Turtle Creek	Turtle Creek
790300	3	Turtle Creek	Turtle Creek
790300	4	Turtle Creek	Turtle Creek
791700	2	Little Turtle Creek	Little Turtle Creek
791700	3	Little Turtle Creek	Little Turtle Creek
791700	4	Little Turtle Creek	Little Turtle Creek
791800	1	Darien Creek	Darien Creek
791800	2	Darien Creek	Darien Creek

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792000	1	Unnamed Trib To Darien Cr	Unnamed
792200	1	Unnamed Stream	Unnamed
792300	1	Unnamed Trib to Little Turtle Creek	Unnamed
792400	1	Ladd Creek	Ladd Creek
792500	1	West Branch Ladd Creek	West Branch Ladd Creek
792800	1	Local Water	Unnamed
793000	1	Trout Lake	Trout Lake
793100	1	Swan Creek	Unnamed
793600	1	Delavan Lake	Delavan Lake
793600	2	Delavan Township Park	Delavan Lake
793600	3	House In The Wood Beach	Delavan Lake
793700	1	Unnamed Stream	Unnamed
793800	1	Jackson Creek	Jackson Creek
793900	1	Unnamed Stream	Unnamed
794000	1	Elkhorn Lake	Elkhorn Lake
794200	1	Comus Lake	Comus Lake
794300	1	Unnamed Trib to Turtle Creek	Unnamed
794500	1	Un Lake	Unnamed
794600	1	Un Lake	Unnamed
794900	1	Unnamed Stream	Unnamed
795100	1	Turtle Lake	Turtle Lake
813900	1	Whitewater Creek	Whitewater Creek
813900	2	Whitewater Creek	Whitewater Creek
813900	3	Whitewater Creek	Whitewater Creek
813900	4	Whitewater Creek	Whitewater Creek
814200	1	Unnamed Stream	Unnamed
815200	1	Cravath Lake	Cravath Lake
815300	1	Spring Brook	Spring Brook
815400	1	Unnamed Stream	Unnamed
815600	1	Unnamed Ditch Tributary to Spring Creek	Unnamed
815800	1	Unnamed Stream	Unnamed
816000	1	Tripp Lake	Tripp Lake (Trapp)
816100	1	Bluff Creek	Bluff Creek
816100	2	Bluff Creek	Bluff Creek
816200	1	Trib to Whitewater Creek	Unnamed

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816300	1	Unnamed Stream	Unnamed
816400	1	Unnamed Stream	Unnamed
816600	1	Rice Lake (Lower Whitewater)	Rice Lake
816800	1	Whitewater Lake	Whitewater Lake
816800	2	Whitewater Lake Beach, Kettle Moraine St. Forest B4	Whitewater Lake
816800	3	Whitewater Lake Boat Launch, Kettle Moraine St. Forest B4	Whitewater Lake
817800	3	Steel Brook	Steel Brook
817800	4	Steel Brook	Steel Brook
817800	5	Steel Brook	Steel Brook
818200	1	Unnamed Trib to Steel Brook	Unnamed
818400	1	Unnamed Stream	Unnamed
818600	1	Local Water	Unnamed
818700	1	Lake Lagrange	La Grange Lake
819400	1	Local Water	Unnamed
819500	1	Un Lake	Unnamed
3000293	1	Perennial Stream B (Ta4)	Unnamed
5038406	1	Local Water	Unnamed
5038419	1	Local Water	Unnamed
5038434	1	Local Water	Unnamed
5038455	1	Local Water	Unnamed
5038484	1	Local Water	Unnamed
5038519	1	Local Water	Unnamed
5038593	1	Local Water	Unnamed
5038599	1	Unnamed Stream	Unnamed
5038625	1	Local Water	Unnamed
5038629	1	Local Water	Unnamed
5038661	1	Local Water	Unnamed
5038666	1	Local Water	Unnamed
5038680	1	Local Water	Unnamed
5038698	1	Local Water	Unnamed
5038699	1	Local Water	Unnamed
5038704	1	Local Water	Unnamed
5038707	1	Local Water	Unnamed
5038718	1	Local Water	Unnamed

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5038758	1	Local Water	Unnamed
5038780	1	Unnamed Stream	Unnamed
5038889	1	Unnamed Stream	Unnamed
5039050	1	Local Water	Unnamed
5039158	1	Unnamed Stream	Unnamed
5039454	1	Unnamed Stream	Unnamed
5039516	1	Unnamed Stream	Unnamed
5039555	1	Unnamed Stream	Unnamed
5039742	1	Unnamed Stream	Unnamed
5040143	1	Unnamed Stream	Unnamed
5040212	1	Unnamed Stream	Unnamed
5040257	1	Local Water	Unnamed
5040295	1	Unnamed Stream	Unnamed
5040297	1	Unnamed Stream	Unnamed
5040421	1	Unnamed Stream	Unnamed
5040431	1	Unnamed Stream	Unnamed
5040487	1	Unnamed	Unnamed
5040546	1	Unnamed Stream	Unnamed
5040610	1	Unnamed Stream	Unnamed
5040633	1	Local Water	Unnamed
5040677	1	Unnamed Stream	Unnamed
5040938	1	Unnamed Stream	Unnamed
5041262	1	Unnamed Creek	Unnamed
5041466	1	Unnamed Stream	Unnamed
5041480	1	Unnamed Stream	Unnamed
5041499	1	Unnamed Stream	Unnamed
5041529	1	Unnamed Stream	Unnamed
5041573	1	Unnamed Stream	Unnamed
5041631	1	Unnamed Stream	Unnamed
5041807	1	Button Creek	Unnamed
5041840	1	Unnamed Stream	Unnamed
5041996	1	Unnamed Trib to Nippersink Creek	Unnamed
5042301	1	Unnamed Stream	Unnamed
5042325	1	Unnamed Stream	Unnamed
5042326	1	Unnamed Stream	Unnamed

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5577503	1	Local Water	Unnamed
5577543	1	Local Water	Unnamed
5577552	1	Local Water	Unnamed
5577555	1	Local Water	Unnamed
5577562	1	Local Water	Unnamed
5577565	1	Local Water	Unnamed
5577566	1	Local Water	Unnamed
5577570	2	Local Water	Unnamed
5577572	1	Local Water	Unnamed
5577575	1	Local Water	Unnamed
5577579	1	Local Water	Unnamed
5577594	1	Local Water	Unnamed
5577609	1	Local Water	Unnamed
5577610	1	Local Water	Unnamed
5577612	1	Local Water	Unnamed
5577621	1	Local Water	Unnamed
5577624	1	Local Water	Unnamed
5577629	1	Local Water	Unnamed
5577631	1	Local Water	Unnamed
5577632	1	Local Water	Unnamed
5577646	1	Local Water	Unnamed
5577649	1	Local Water	Unnamed
5577650	1	Local Water	Unnamed
5577652	1	Local Water	Unnamed
5577653	1	Local Water	Unnamed
5577663	1	Local Water	Unnamed
5577673	1	Local Water	Unnamed
5577682	1	Local Water	Unnamed
5577693	1	Local Water	Unnamed
5577736	1	Local Water	Unnamed
5577738	1	Local Water	Unnamed
5577748	1	Local Water	Unnamed
5577772	1	Local Water	Unnamed
5577774	1	Local Water	Unnamed
5577778	1	Local Water	Unnamed

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5577784	1	Local Water	Unnamed
5577788	1	Local Water	Unnamed
5577792	1	Local Water	Unnamed
5577796	1	Local Water	Unnamed
5577797	1	Local Water	Unnamed
5577798	1	Local Water	Unnamed
5577805	1	Local Water	Unnamed
5577814	1	Local Water	Unnamed
5577818	1	Local Water	Unnamed
5577822	1	Local Water	Unnamed
5577823	1	Local Water	Unnamed
5577825	1	Local Water	Unnamed
5577826	1	Local Water	Unnamed
5577827	1	Local Water	Unnamed
5577833	1	Local Water	Unnamed
5577842	1	Local Water	Unnamed
5577849	1	Local Water	Unnamed
5577850	1	Local Water	Unnamed
5577851	1	Local Water	Unnamed
5577852	1	Local Water	Unnamed
5577853	1	Local Water	Unnamed
5577856	1	Local Water	Unnamed
5577862	1	Local Water	Unnamed
5577865	1	Local Water	Unnamed
5577874	1	Local Water	Unnamed
5577892	1	Local Water	Unnamed
5577901	1	Local Water	Unnamed
5577905	1	Local Water	Unnamed
5577924	1	Local Water	Unnamed
5577936	1	Local Water	Unnamed
5577950	1	Local Water	Unnamed
5577986	1	Local Water	Unnamed
5577993	1	Unnamed Lake	Unnamed
5578012	1	Local Water	Unnamed
5578038	1	Local Water	Unnamed

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5578080	1	Local Water	Unnamed
5578083	1	Local Water	Unnamed
5578102	1	Local Water	Unnamed
5578121	1	Local Water	Unnamed
5578136	1	Local Water	Unnamed
5578429	1	Local Water	Unnamed
5578484	1	Local Water	Unnamed
5578494	1	Local Water	Unnamed
5578518	1	Local Water	Unnamed
5578531	1	Local Water	Unnamed
5578613	1	Local Water	Unnamed
5578665	1	Local Water	Unnamed
5578735	1	Local Water	Unnamed
5578830	1	Local Water	Unnamed
5578874	1	Local Water	Unnamed
5578879	1	Local Water	Unnamed
5578896	1	Local Water	Unnamed
5578953	1	Local Water	Unnamed
5578976	1	Local Water	Unnamed
5579194	1	Local Water	Unnamed
5579247	1	Local Water	Unnamed
5579272	1	Local Water	Unnamed
5579401	1	Local Water	Unnamed
5579466	1	Local Water	Unnamed
5579528	1	Local Water	Unnamed
5579582	1	Local Water	Unnamed
5579635	1	Local Water	Unnamed
5579642	1	Local Water	Unnamed
5579646	1	Local Water	Unnamed
5579769	1	Local Water	Unnamed
5579814	1	Local Water	Unnamed
5579825	1	Local Water	Unnamed
5579829	1	Local Water	Unnamed
5579915	1	Local Water	Unnamed
5579929	1	Local Water	Unnamed

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5579954	1	Local Water	Unnamed
5579979	1	Local Water	Unnamed
5579984	1	Local Water	Unnamed
5580028	1	Local Water	Unnamed
5580061	1	Local Water	Unnamed
5580128	1	Local Water	Unnamed
5580150	1	Local Water	Unnamed
5580185	1	Local Water	Unnamed
5580192	1	Local Water	Unnamed
5580234	1	Local Water	Unnamed
5580258	1	Local Water	Unnamed
5580265	1	Local Water	Unnamed
5580483	1	Local Water	Unnamed
5580491	1	Local Water	Unnamed
5580499	1	Local Water	Unnamed
5580505	1	Local Water	Unnamed
5580509	1	Local Water	Unnamed
5580600	1	Local Water	Unnamed
5580610	1	Local Water	Unnamed
5580619	1	Local Water	Unnamed
5580676	1	Local Water	Unnamed
5580680	1	Local Water	Unnamed
5580696	1	Local Water	Unnamed
5580748	1	Local Water	Unnamed
5580753	1	Local Water	Unnamed
5580774	1	Local Water	Unnamed
5580836	1	Local Water	Unnamed
5580841	1	Local Water	Unnamed
5580850	1	Unnamed Lake	Unnamed
5580851	1	Local Water	Unnamed
5581043	1	Local Water	Unnamed
5582026	1	Local Water	Unnamed
5589113	1	Local Water	Unnamed
5591128	1	Local Water	Unnamed

Lab Account Codes

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Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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