

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** WCR\_05\_CMP08

**Name:** Twin Lakes Surface/Groundwater Interaction Study WCR\_05\_08

**Type:** Targeted Monitoring

**Subtype:** Special Project

**Status:** ACTIVE

**Start Date:** 7/1/2007

**End Date:** 6/30/2008

**Purpose:** Twin Lakes is on the 303(d) list and is a shallow groundwater flow through lake, which will eventually require a TMDL. No comprehensive water chemistry data has been collected on the lakes in over 10 years. This project is being designed as a one year project (Jan 08 -Dec 08).

**Objective:** This project as a first step in beginning to understand the impacts of groundwater on the hydrology and nutrient budget of Twin Lakes.

**Comments:** Needs Methods

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
OLDENBURG, PATRICK S	COORDINATOR	COMPLETE	7/12/2007		Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
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### Project Status Detail

### Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor or Propose 303(d) Listing	Twin Lakes is on the 303(d) list and is a shallow groundwater flow through lake, which will eventually require a TMDL. No comprehensive water chemistry data has been collected on the lakes in over 10 years.	7/1/2007	6/30/2008	COMPLETE

Details: Parameter	Value/Amount	Units	Comments
Temperature			
Total Nitrogen			
Total Phosphorus			
Total Suspended Solids			

### Monitoring Stations

## Wisconsin Department of Natural Resources SWIMS Project Summary

Station ID	Name	Comments
563084	East Twin Lake - Middle Of East Lake	
563083	West Twin Lake - Twin Lakes Middle Of West Lake	

### Assessment Units

WBIC	Segment	Local Name	Official Name
2055000	4	Eau Galle River	Eau Galle River
2055000	5	Eau Galle River	Eau Galle River
2055000	6	Eau Galle River	Eau Galle River
2058000	1	Cady Creek	Cady Creek
2059800	1	Lake George	Lake George
2059800	2	Eau Galle Rec Area Beach, George Lake*(Spring Valley)	Lake George
2059900	1	Lohn Creek	Lohn Creek
2059900	2	Lohn Creek	Lohn Creek
2060000	1	Lousy Creek	Lousy Creek
2060000	2	Lousy Creek	Lousy Creek
2060200	1	French Creek	Unnamed
2060200	3	French Creek	Unnamed
2060800	1	Carr Creek	Carr Creek
2065400	1	Creek 30-1 Trib. To Middle Branch Gilbert Creek	Unnamed
2066000	3	Wilson Creek	Wilson Creek
2066000	4	Wilson Creek	Wilson Creek
2067200	1	North Branch Wilson Creek	North Branch Wilson Creek
2070500	1	Tiffany Creek	Tiffany Creek
2070500	2	Tiffany Creek	Tiffany Creek
2070500	4	Tiffany Creek	Tiffany Creek
2071000	1	Beaver Creek	Beaver Creek
2071000	2	Beaver Creek	Beaver Creek
2071000	3	Beaver Creek (T30n R14w)	Beaver Creek
2071000	4	Beaver Cr	Beaver Creek
2071300	1	Creek 1-10 (T29N, R15W)	Unnamed
2071700	1	Glen Lake	Glen Lake
2071700	2	Glen Hills Beach, Glen Lake	Glen Lake
2071800	1	Sandy Creek (T30N, R15W)	Sandy Creek
2071800	2	Sandy Creek (T30N, R15W)	Sandy Creek

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2071800	3	Sandy Creek (T30N, R15W)	Sandy Creek
2072300	1	Unnamed Lake	Unnamed
2072400	1	Little Bushy Lake	Little Bushy Lake
2072500	1	Un Lake	Unnamed
2072600	1	Bushy Lake	Bushy Lake
2072800	1	Creek 25-11 (T30N, R15W)	Unnamed
2072900	1	South Fork Tiffany Creek (Stephens Creek)	Stephens Creek
2073000	1	Ryan (Blue) Creek(Creek 35-5)	Ryan Creek
2073300	1	Un Lake	Unnamed
2074000	2	Johns Creek	Johns Creek
2074200	1	Bolen Creek	Bolen Creek
2074200	2	Bolen Creek	Bolen Creek
2440300	2	Rush River	Rush River
2440300	3	Rush River	Rush River
2440300	4	Rush River	Rush River
2443800	1	Creek 35-9 (T28n R17w)	Unnamed
2444600	1	Unnamed Trib	Unnamed
2450500	1	Bass Lake (T30N R19W S23)	Bass Lake
2450600	1	Bass Lake	Bass Lake
2453200	1	Bierbrauer Lake	Bierbrauer Lake
2455100	1	Bright Lake	Bright Lake
2455400	1	Brushy Mound Lake	Brushy Mound Lake
2461600	1	Dry Dam Lake	Dry Dam Lake
2462300	1	West Twin Lake	Twin Lakes
2468200	1	Hatfield Lake	Hatfield Lake
2478500	1	Long Pond	Long Pond
2480400	1	Lundy Pond	Lundy Pond
2480400	2	Lundy Pond	Lundy Pond
2480400	3	Lundy Pond	Lundy Pond
2485500	1	North Bass Lake	North Bass Lake
2486800	1	Oakridge Lake	Oak Ridge Lake
2488300	1	Perch Lake	Perch Lake
2488300	2	Perch Lake Beach, Perch Lake	Perch Lake
2489700	1	Pine Lake, T29n R17w S01	Pine Lake
2489800	1	Pine Lake	Pine Lake

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2496200	1	Shank Lake	Shank Lake
2499000	1	Apple Lake	Apple Lake
2499600	1	Strand Lake	Strand Lake
2501400	1	Three Lakes	Three Lakes
2502800	1	Turtle Lake	Turtle Lake
2503700	1	Un Lake	Unnamed
2503800	1	Un Lake	Unnamed
2503900	1	Un Lake	Unnamed
2503950	1	Un Lake	Unnamed
2504000	1	Un Lake	Unnamed
2504100	1	Unnamed Lake	Unnamed
2504200	1	Un Lake	Unnamed
2504300	1	Un Lake	Unnamed
2504350	1	Un Lake	Unnamed
2504370	1	Un Lake	Unnamed
2504400	1	Un Lake	Unnamed
2504500	1	Un Lake	Unnamed
2504590	1	Un Lake	Unnamed
2504600	1	Un Lake	Unnamed
2504700	1	Un Lake	Unnamed
2504730	1	Un Lake	Unnamed
2504800	1	Un Lake	Unnamed
2504900	1	Un Lake	Unnamed
2504930	1	Un Lake	Unnamed
2505000	1	Un Lake	Unnamed
2505100	1	Un Lake	Unnamed
2505150	1	Un Lake	Unnamed
2505200	1	Un Lake	Unnamed
2597300	1	Un Lake	Unnamed
2597400	1	Un Lake	Unnamed
2597500	1	Un Lake	Unnamed
2597700	1	Un Lake	Unnamed
2597900	1	Un Lake	Unnamed
2598000	1	Un Lake	Unnamed
2598900	1	East Twin Lake	Twin Lakes

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2601400	1	St Croix River	Saint Croix River
2601400	2	St Croix River	Saint Croix River
2601500	1	St. Croix Lake	Lake Saint Croix
2601500	3	Brown's Beach, Lake Saint Croix	Lake Saint Croix
2601500	4	Lake Front Beach, Lake Saint Croix	Lake Saint Croix
2601500	5	Pembles Beach, Lake Saint Croix	Lake Saint Croix
2601500	6	Troy Beach, Lake Saint Croix	Lake Saint Croix
2601500	7	YMCA Beach, Lake Saint Croix	Lake Saint Croix
2601500	8	St. Croix River (Dike Beach)	Lake Saint Croix
2601800	2	Kinnickinnic River	Kinnickinnic River
2601800	3	Kinnickinnic River	Kinnickinnic River
2601800	4	Kinnickinnic River	Kinnickinnic River
2601800	5	Kinnickinnic River	Kinnickinnic River
2603900	1	Creek 36-1 (T28n R19w)	Unnamed
2604000	1	Creek 30-1(T28n R18w)	Unnamed
2604300	1	Creek 21-4 (T28N, R18W)	Unnamed
2604400	1	Ted Creek	Ted Creek
2604500	1	Nye Creek	Nye Creek
2604600	1	Kelly Creek (Kelly Springs)	Kelly Creek
2604700	1	Parker Creek	Parker Creek
2604700	2	Parker Creek	Parker Creek
2604700	3	Parker Creek	Parker Creek
2604800	1	Creek 13-2 (T28N, R18W)	Unnamed
2605000	1	Creek 19-14 (28N17W)	Unnamed
2605400	1	S. Br. Kinnickinnick River	South Branch Kinnickinnic River
2606100	1	Unnamed Stream	Unnamed
2606200	1	Un Lake	Unnamed
2606300	1	Bushnell Lake	Bushnell Lake
2606400	1	Un Lake	Unnamed
2606700	1	Casey Lake	Casey Lake
2606750	1	Un Lake	Unnamed
2606900	1	Willow River (Mouth to Dam)	Willow River
2606900	2	Willow River (Ltl Falls to Willow Fls)	Willow River
2606900	3	Willow River (Willow Fls to 10 MI)	Willow River
2606900	4	Willow River (10 MI to 140 St)	Willow River

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2606900	5	Willow River (140 St to 100th)	Willow River
2606900	6	Willow River (100th St to Anderson Spgs)	Willow River
2606900	7	Willow River (Anderson Spgs to New Rchmd Fl.)	Willow River
2606900	8	Willow River (New Richmond Flowage)	Willow River
2606900	9	Willow River (to confluence of branches)	Willow River
2606900	10	North Fork Willow River	Willow River
2606900	11	North Fork Willow River	Willow River
2606900	12	North Fork Willow River	Willow River
2606900	80	Race Branch Side Channel	Willow River
2606900	81	Race Branch Side Channel	Willow River
2606900	82	Race Branch Willow River	Willow River
2606900	83	Willow River (North Fork)	Willow River
2607100	1	Mallalieu Lake	Mallalieu Lake
2607200	1	Willow River Race Branch	Unnamed
2607400	1	Little Falls Lake	Little Falls Lake
2607400	2	Willow River SP Little Fall Lake Beach, Little Falls Lake	Little Falls Lake
2607600	1	Burkhardt Mill Pond	Burkhardt Mill Pond
2607800	1	Mounds Flowage	Mounds Pond
2607900	1	Tenmile Creek	Tenmile Creek
2607900	2	Tenmile Creek	Tenmile Creek
2607900	3	Ten Mile Creek	Tenmile Creek
2608000	1	Un Spring	Un Spring
2608200	1	Unnamed Stream	Unnamed
2608400	1	Anderson Springs	Anderson Springs
2608500	1	Paperjack Creek	Paperjack Creek
2608800	1	New Richmond Flowage	New Richmond Flowage
2608800	2	Mary Park Beach	New Richmond Flowage
2609000	1	Goose Pond	Goose Pond
2609200	1	South Fork Willow River	South Fork Willow River
2609200	2	South Fork Willow River	South Fork Willow River
2609300	1	Dry Run	Dry Run
2609300	2	Dry Run	Dry Run
2609900	1	Carr Creek	Carr Creek
2610100	1	Un Lake	Unnamed
2610900	1	Hutton Creek	Hutton Creek

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2610900	2	Hutton Creek	Hutton Creek
2610900	3	Hutton Creek	Hutton Creek
2611300	1	Un Lake	Unnamed
2611400	1	Un Lake	Unnamed
2611700	1	Black Brook	Black Brook
2612300	1	Wolf Creek	Wolf Creek
2612500	1	Harmin Lake	Harmin Lake
2612700	1	Jack Green Creek	Jack Green Creek
2613800	1	Un Spring	Un Spring
2614000	1	Apple River	Apple River
2614000	2	Apple River	Apple River
2614000	3	Apple River	Apple River
2614000	6	Apple River	Apple River
2614000	7	Apple River	Apple River
2614000	9	Apple River - Star Prairie Town Park Beach, Apple River	Apple River
2614000	10	Apple River Lower Site Beach, Apple River	Apple River
2614000	11	Apple River Midpoint Beach, Apple River	Apple River
2614000	12	Apple River Upper Beach, Apple River	Apple River
2614000	15	Apple River	Apple River
2614200	1	Apple Falls Flowage	Apple Falls Flowage
2614300	1	Levesque Springs	Unnamed
2614400	1	Levesque Spring	Levesque Spring
2614600	1	Riverdale Flowage	Riverdale Flowage
2614700	1	Unnamed Lake	Unnamed
2614800	1	Cedar Creek	Cedar Creek
2614900	1	Un Lake	Unnamed
2615100	1	Cedar Lake	Cedar Lake
2617000	1	Spring Brook	Spring Brook
3000059	1	Local Water	Unnamed
3000345	1	Hennessey Springs	Unnamed
3000371	1	Creek 36-15 (T28n R19w)	Unnamed
3000374	1	Creek 30-10 (T28n R18w)	Unnamed
3000376	1	Creek 14-7 (T31N, R18W)	Unnamed
3000380	1	Creek 1-13 (T31N, R18W)	Unnamed
5007694	1	Strohbeen Wetland Inflow	Unnamed

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5007740	1	Unnamed Stream	Unnamed
5008001	1	Unnamed Stream	Unnamed
5008166	1	Unnamed Stream	Unnamed
5008977	1	Creek 12-11(T30N, R15W)	Unnamed
5009394	1	Unnamed Stream	Unnamed
5009540	1	Unnamed Creek	Unnamed
5009605	1	Unnamed Stream	Unnamed
5009620	1	Unnamed Creek	Unnamed
5009642	1	Unnamed Creek	Unnamed
5009700	1	Unnamed Stream	Unnamed
5009722	1	Unnamed Creek	Unnamed
5010044	1	Unnamed Creek	Unnamed
5010059	1	Unnamed Creek	Unnamed
5010096	1	Unnamed Creek	Unnamed
5010183	1	Unnamed Creek	Unnamed
5010226	1	Unnamed Creek	Unnamed
5010232	1	Unnamed Creek	Unnamed
5527070	1	Lake Alice	Lake Alice
5527465	1	Local Water	Unnamed
5527492	1	Local Water	Unnamed
5527546	1	Local Water	Unnamed
5527586	1	Local Water	Unnamed
5527682	1	Local Water	Unnamed
5527683	1	Local Water	Unnamed
5527740	1	Local Water	Unnamed
5527745	1	Local Water	Unnamed
5527799	1	Local Water	Unnamed
5527910	1	Local Water	Unnamed
5527920	1	Local Water	Unnamed
5527941	1	Local Water	Unnamed
5528001	1	Local Water	Unnamed
5528036	1	Local Water	Unnamed
5528042	1	Local Water	Unnamed
5528043	1	Local Water	Unnamed
5528051	1	Local Water	Unnamed



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5528059	1	Local Water	Unnamed
5528070	1	Local Water	Unnamed
5528075	1	Local Water	Unnamed
5528095	1	Local Water	Unnamed
5528128	1	Local Water	Unnamed
5528145	1	Local Water	Unnamed
5528182	1	Local Water	Unnamed
5528192	1	Local Water	Unnamed
5528202	1	Local Water	Unnamed
5528223	1	Local Water	Unnamed
5528225	1	Local Water	Unnamed
5528237	1	Local Water	Unnamed
5528272	1	Local Water	Unnamed
5528330	1	Local Water	Unnamed
5528332	1	Local Water	Unnamed
5528369	1	Local Water	Unnamed
5528391	1	Local Water	Unnamed
5528395	1	Unnamed Lake	Unnamed
5528415	1	Local Water	Unnamed
5528438	1	Local Water	Unnamed
5528442	1	Local Water	Unnamed
5528483	1	Local Water	Unnamed
5528544	1	Local Water	Unnamed
5528563	1	Local Water	Unnamed
5528568	1	Local Water	Unnamed
5528610	1	Local Water	Unnamed
5528639	1	Guy Lake	Unnamed
5528690	1	Local Water	Unnamed
5528767	1	Local Water	Unnamed
5528951	1	Local Water	Unnamed
5528980	1	Local Water	Unnamed
5529023	1	Local Water	Unnamed
5529044	1	Local Water	Unnamed
5529045	1	Local Water	Unnamed
5529082	1	Local Water	Unnamed

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5529118	1	Local Water	Unnamed
5529121	1	Local Water	Unnamed
5529126	1	Local Water	Unnamed
5529135	1	Local Water	Unnamed
5529166	1	Local Water	Unnamed
5529173	1	Local Water	Unnamed
5529270	1	Local Water	Unnamed
5529280	1	Local Water	Unnamed
5529372	1	Local Water	Unnamed
5529448	1	Local Water	Unnamed
5529454	1	Local Water	Unnamed
5529477	1	Unnamed St. Croix River backwaters	Unnamed
5529529	1	Local Water	Unnamed
5529600	1	Local Water	Unnamed
5529613	1	Local Water	Unnamed
5529636	1	Local Water	Unnamed
5529645	1	Local Water	Unnamed
5529677	1	Local Water	Unnamed
5529684	1	Local Water	Unnamed
5529735	1	Local Water	Unnamed
5529756	1	Local Water	Unnamed
5529808	1	Local Water	Unnamed
5529901	1	Local Water	Unnamed
5529984	1	Local Water	Unnamed
5530068	1	Local Water	Unnamed
5530117	1	Local Water	Unnamed
5530170	1	Local Water	Unnamed
5530180	1	Local Water	Unnamed
5530252	1	Local Water	Unnamed
5530288	1	Local Water	Unnamed
5530302	1	Local Water	Unnamed
5530372	1	Local Water	Unnamed
5530435	1	Local Water	Unnamed
5530468	1	Local Water	Unnamed
5530523	1	Local Water	Unnamed

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5530555	1	Local Water	Unnamed
5530625	1	Local Water	Unnamed
5530667	1	Local Water	Unnamed
5530781	1	Local Water	Unnamed
5530878	1	Local Water	Unnamed
5530904	1	Local Water	Unnamed
5531041	1	Local Water	Unnamed
5531045	1	Local Water	Unnamed
5531050	1	Local Water	Unnamed
5531259	1	Local Water	Unnamed
5531260	1	Local Water	Unnamed
5531262	1	Local Water	Unnamed
5531267	1	Local Water	Unnamed
5531273	1	Local Water	Unnamed
5531345	1	Local Water	Unnamed
5531420	1	Local Water	Unnamed
5531431	1	Local Water	Unnamed
5531451	1	Local Water	Unnamed
5531531	1	Local Water	Unnamed
5531743	1	Local Water	Unnamed
5531756	1	Local Water	Unnamed
5531770	1	Local Water	Unnamed
5531821	1	Local Water	Unnamed
5531837	1	Local Water	Unnamed
5531844	1	Unnamed Lake	Unnamed
5531928	1	Local Water	Unnamed
5531930	1	Local Water	Unnamed
5531968	1	Local Water	Unnamed
5532009	1	Local Water	Unnamed
5532032	1	Local Water	Unnamed
5532081	1	Local Water	Unnamed
5532148	1	Local Water	Unnamed
5532150	1	Local Water	Unnamed
5532151	1	Local Water	Unnamed
5532159	1	Local Water	Unnamed

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5532177	1	Local Water	Unnamed
5532190	1	Local Water	Unnamed
5532251	1	Local Water	Unnamed
5532274	1	Local Water	Unnamed
5532331	1	Local Water	Unnamed
5532605	1	Local Water	Unnamed
5532646	1	Local Water	Unnamed
5532930	1	Local Water	Unnamed
5533216	1	Local Water	Unnamed
5533232	1	Local Water	Unnamed
5533437	1	Local Water	Unnamed
5533568	1	Local Water	Unnamed
5533594	1	Local Water	Unnamed
5533711	1	Local Water	Unnamed
5533747	1	Local Water	Unnamed
5533769	1	Local Water	Unnamed
5534084	1	Local Water	Unnamed
5534179	1	Local Water	Unnamed
5534222	1	Local Water	Unnamed
5536309	1	Local Water	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT089	SPECIAL PROJECTS	7/1/2007	6/30/2008

### 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
1/8/2008 11:00	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
1/8/2008 11:30	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
2/25/2008 14:00	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
2/25/2008 14:00	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
3/26/2008 13:00	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake

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3/26/2008 13:20	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
4/23/2008 13:30	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
4/23/2008 13:30	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
5/22/2008 13:30	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
5/22/2008 13:30	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
6/25/2008 13:30	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
6/25/2008 14:00	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
7/23/2008 11:00	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
7/23/2008 11:45	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
8/26/2008 10:30	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
8/26/2008 11:00	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
9/24/2008 12:30	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
9/24/2008 13:00	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
10/21/2008 13:00	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
10/21/2008 13:00	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
11/19/2008 13:00	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake
11/19/2008 13:30	COMPLETE	ET1	563084	East Twin Lake - Middle Of East Lake
12/17/2008 10:35	COMPLETE	WT1	563083	West Twin Lake - Twin Lakes Middle Of West Lake

### Documents

Title	Description	Author	Published	Comments
TWIN LAKES GW, SW STUDY PROPOSAL BUDGET	MONITORING PROPOSAL FY08	Oldenberg, Patrick	7/1/2007	MONITORING

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:** \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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