

**From:** Chris Cailles <cailles@daienv.com>  
**Sent:** Thursday, June 9, 2022 10:11 AM  
**To:** Neumann, Riley D - DNR  
**Subject:** Monthly DMR (injection) and eDMR (Ace sump system), Sunrise Shopping Center, South Milwaukee  
**Attachments:** May 2022 DMR and letter.pdf; May 2022 eDMR.PDF

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Riley,

Please find attached the May 2022 DMR submission for the chemical treatment activities at the Sunrise Shopping Center located in South Milwaukee, Wisconsin and covered under WPDES Permit WI-0046566-07. Note that no treatment activities were performed during the month; no additional injection is planned.

In addition to the chemical injection DMR, please find attached a copy of the eDMR associated with the sump water treatment system at the Ace Hardware store located at the site. The attached eDMR documents results for the May 2022 monthly sampling.

If you have any questions, please do not hesitate to contact me.

Sincerely,  
Christopher Cailles  
DAI Environmental, Inc.  
(847) 996-3580

June 9, 2022

Mr. Trevor Moen  
SER Wastewater Program  
Wisconsin Department of Natural Resources  
1027 West St. Paul Avenue  
Milwaukee, WI 53233

**RE: Discharge Monitoring Report for May 2022**  
**WPDES Permit Number WI-0046566-07-0**  
**BRRTS #: 02-41-576336 & 02-41-579429**  
**FID #: 241828620**  
**FIN #: 63340**  
**Sunrise Shopping Center**  
**2410-2424 10<sup>th</sup> Avenue & 1009 Marquette Avenue**  
**South Milwaukee, Wisconsin 53172**

Mr. Moen:

Wisconsin Department of Natural Resources (WDNR) granted coverage under WPDES Permit Number WI-0046566-07-0 in a letter dated January 2, 2019, for full-scale chemical injection remedial activities at the above-referenced facility. In the January 2019 letter, WDNR approved continued coverage for the proposed chemical injection of RemOx® (Potassium permanganate). Following the January 2019 approval, 35 injection wells were installed and the gravity feed infiltration “system” was constructed and prepared.

After construction, a small volume test injection was performed on February 4, 2019, to evaluate for leakage, verify suitable infiltration, etc. No additional injection activities were performed during the month or in March-April 2019. Full-scale injection activities were initiated in May 2019. Injection activities were performed between May and December 2019. A modified method of RemOx® introduction to the impacted soils, specifically in-situ chemical mixing, was initiated in November 2020 and continued through January 2020. All RemOx® initially obtained for the project had been applied through the final actions of January 17, 2020. Remedial progress was discussed with WDNR Remediation and Redevelopment Program in a meeting held on January 21, 2020. Following the meeting, no additional chemical treatment activities have been performed. All injection wells have been abandoned as of August 2020.

In order to meet the requirements of Section 2 of the WPDES Permit Number WI-0046566-07-0, DAI Environmental, Inc., (DAI) is submitting this Discharge Monitoring Report (DMR) on behalf of Carol Investment Corporation, owner and Responsible Party for the Sunrise Shopping Center site located in South Milwaukee, Wisconsin. The completed DMR form indicating “no

discharge” for the month of May 2022 is included in Attachment A. The form is signed by Mr. Christopher Cailles of DAI as “Person Completing Form” and as “Authorized Agent” to the “Principal Exec. Officer” of Carol Investment Corporation.

Although additional chemical treatment is not planned, termination of coverage under WPDES Permit Number WI-0046566-07-0 has not yet been requested. Termination of coverage using Form 3400-221 will not be requested until WDNR approves closure of the site without further remediation required. Therefore, DMRs will continue to be submitted as required, even for months in which no chemical injections activities are performed, until such time as termination of coverage is requested. As noted in the March 2020 submission, DMRs with “no discharge” are only being submitted quarterly.

If you have any questions or require additional information in regards to this submission, please contact me at (847) 996-3580. Thank you for your time.

Sincerely,  
**DAI Environmental, Inc.**



Christopher Cailles, P.E.  
Project Engineer

Attachment

cc: Riley Neumann – WDNR RR Program (w/enclosure electronically)

**ATTACHMENT A**  
**DISCHARGE MONITORING REPORT**

DISCHARGE MONITORING REPORT FORM - Contaminated Groundwater

PERMITTEE NAME: Sunrise Shopping Center  
FIN: 63340  
BRRTS #'s: 02-41-576336 & 02-41-579429  
SITE ADDRESS: 2410-2424 10th Ave & 1009 Marquette Ave., South Milwaukee, WI

WPDES PERMIT NO. WI-0046566-07      YEAR: 2022

DMR-In-situ Contaminants    Revised 7/2018

<b>Outfall Number</b>	001
<b>Sample Point Description</b>	8 Injection Borings
<b>Parameter Name</b>	RemOx® (potassium permanganate)
<b>Parameter Units</b>	Gallons
<b>Sample Date Below (mm/dd/year)</b>	
May 2022	0 (no injection, no soil mixing)
<b>Sample Type</b>	Total
<b>Frequency of Sampling</b>	Daily

PLEASE ATTACH NOTES AND/OR ADDRESS-NAME CORRECTIONS ON A SEPARATE SHEET  
RETURN REPORT NO LATER THAN: The 15th of the following month after injection, for the remainder of the remediation project.

SEND TO:    ATTN: Chris Dietrich  
2300 N. Dr. Martin Luther King Jr. Drive  
Milwaukee, WI 53212-3128

Signature of Person Completing Form  
*Christopher Caille*  
Signature of Principal Exec. Officer or Authorized Agent  
*Christopher Caille DSC*

Title  
*as authorized agent to conduct investigation*  
Project Engineer  
Date  
*6/15/92*

Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day.  
Authorized per WISCONSIN STATUTE 283.55

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT, (40 CFR 122.5). I ALSO CERTIFY THAT THE VALUES BEING SUBMITTED ARE THE ACTUAL VALUES FOUND IN THE SAMPLES; NO VALUES HAVE BEEN MODIFIED OR CHANGED IN ANY MANNER. WHEREVER I BELIEVE A VALUE BEING REPORTED IS INACCURATE, I HAVE ADDED AN EXPLANATION INDICATING THE REASONS WHY THE VALUE IS INACCURATE.

# Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: CAROL INVESTMENT CORPORATION  
 Contact Address: 27834 N Irma Lee Circle  
 Lake Forest, IL 60045  
 Facility Contact: Cristopher Cailles, Project Engineer  
 Phone Number: 847-573-8900  
 Reporting Period: 05/01/2022 - 05/31/2022  
 Form Due Date: 06/21/2022  
 Permit Number: 0046566

Date Received:  
 DOC: 495545  
 FIN: 63340  
 FID: 241828620  
 Region: Southeast Region  
 Permit Drafter: Drafter not set  
 Reviewer: Reviewer not set  
 Office: Reviewer not set

Sample Point	002	002	002	002	002	
Description	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	
Parameter	211	377	40	54	393	
Description	Flow Rate	pH Field	Benzene	BETX, Total	PAHs	
Units	gpd	su	ug/L	ug/L	ug/L	
Sample Type	ESTIMATED	GRAB	GRAB	GRAB	GRAB	
Frequency	DAILY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	
Sample Results	Day 1	3.85				
	2	3.85				
	3	3.85				
	4	3.85				
	5	3.85				
	6	2.82	6.4	<0.3	<1.97	<0.22
	7	2.82				
	8	2.82				
	9	2.82				
	10	2.82				
	11	2.82				
	12	2.82				
	13	2.82				
	14	2.82				
	15	2.82				
	16	2.82				
	17	2.82				
	18	2.82				
	19	2.82				
	20	2.82				
	21	2.82				
	22	2.82				
	23	2.82				
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	25	2.82				
	26	2.82				
	27	2.82				
	28	2.82				
	29	2.82				
	30	2.82				
	31	2.82				

	Sample Point	002		002		002		002	
	Description	Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge	
	Parameter	211		377		40		54	
	Description	Flow Rate		pH Field		Benzene		BETX, Total	
	Units	gpd		su		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	2.986129032		6.4		0		0	
	<b>Daily Max</b>	3.85		6.4		<0.3		<1.97	
	<b>Daily Min</b>	2.82		6.4		<0.3		<1.97	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					50	0	750	0
	<b>Daily Max</b>			9	0				
	<b>Daily Min</b>			6	0				
<b>QA/QC Information</b>	<b>LOD</b>					0.3			
	<b>LOQ</b>					1			
	<b>QC Exceedance</b>	N		N		N		N	
	<b>Lab Certification</b>					405132750		405132750	

	<b>Sample Point</b>	002	002	002	002	002
	<b>Description</b>	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge
	<b>Parameter</b>	44	307	80	93	118
	<b>Description</b>	Benzo(a)pyrene	Naphthalene	Bromoform	Carbon tetrachloride	Chloroform
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	GRAB	GRAB	GRAB	GRAB	GRAB
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>	<0.018	<0.019	<3.8	<0.37	<1.2
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
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	<b>22</b>					
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	<b>30</b>					
	<b>31</b>					



	Sample Point	002		002		002		002		002	
	Description	Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge	
	Parameter	44		307		80		93		118	
	Description	Benzo(a)pyrene		Naphthalene		Bromoform		Carbon tetrachloride		Chloroform	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0		0		0		0		0	
	Daily Max	<0.018		<0.019		<3.8		<0.37		<1.2	
	Daily Min	<0.018		<0.019		<3.8		<0.37		<1.2	
<b>Limit(s) in Effect</b>	Monthly Avg	0.10	0	70	0	120	0	150	0	120	0
	Daily Max										
	Daily Min										
<b>QA/QC Information</b>	LOD	0.018		0.019		3.8		0.37		1.2	
	LOQ	0.047		0.047		5		1		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	405132750		405132750		405132750		405132750		405132750	

	<b>Sample Point</b>	002	002	002	002	002
	<b>Description</b>	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge
	<b>Parameter</b>	174	570	558	82	120
	<b>Description</b>	Dichlorobromo- methane (bromo- dichloromethane)	1,2-Dichloro- ethane	1,1-Dichloro- ethylene	Methyl bromide	Chloromethane
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	GRAB	GRAB	GRAB	GRAB	GRAB
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>	<0.42	<0.29	<0.58	<1.2	<1.6
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
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	<b>27</b>					
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	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	Sample Point	002		002		002		002		002	
	Description	Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge	
	Parameter	174		570		558		82		120	
	Description	Dichlorobromo- methane (bromo- dichloromethane)		1,2-Dichloro- ethane		1,1-Dichloro- ethylene		Methyl bromide		Chloromethane	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	0		0		0		0		0	
	<b>Daily Max</b>	<0.42		<0.29		<0.58		<1.2		<1.6	
	<b>Daily Min</b>	<0.42		<0.29		<0.58		<1.2		<1.6	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	120	0	180	0	50	0	120	0	120	0
	<b>Daily Max</b>										
	<b>Daily Min</b>										
<b>QA/QC Information</b>	<b>LOD</b>	0.42		0.29		0.58		1.2		1.6	
	<b>LOQ</b>	1		1		1		5		5	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	405132750		405132750		405132750		405132750		405132750	

	<b>Sample Point</b>	002	002	002	002	002
	<b>Description</b>	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge	Prior to Storm Sewer Discharge
	<b>Parameter</b>	565	490	563	561	508
	<b>Description</b>	1,1,2,2-Tetrachloro-ethane	Tetrachloroethylene	1,1,2-Trichloro- ethane	1,1,1-Trichloro- ethane	Trichloro- ethylene
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	GRAB	GRAB	GRAB	GRAB	GRAB
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>	<0.38	<0.41	<0.34	<0.3	<0.32
	<b>7</b>					
	<b>8</b>					
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	<b>10</b>					
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	<b>30</b>					
	<b>31</b>					

	Sample Point	002		002		002		002		002	
	Description	Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge	
	Parameter	565		490		563		561		508	
	Description	1,1,2,2-Tetrachloro-ethane		Tetrachloroethylene		1,1,2-Trichloro- ethane		1,1,1-Trichloro- ethane		Trichloro- ethylene	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0		0		0		0		0	
	Daily Max	<0.38		<0.41		<0.34		<0.3		<0.32	
	Daily Min	<0.38		<0.41		<0.34		<0.3		<0.32	
<b>Limit(s) in Effect</b>	Monthly Avg	50	0	50	0	50	0	50	0	50	0
	Daily Max										
	Daily Min										
<b>QA/QC Information</b>	LOD	0.38		0.41		0.34		0.3		0.32	
	LOQ	1		1		5		1		1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	405132750		405132750		405132750		405132750		405132750	

	<b>Sample Point</b>	002
	<b>Description</b>	Prior to Storm Sewer Discharge
	<b>Parameter</b>	517
	<b>Description</b>	Vinyl chloride
	<b>Units</b>	ug/L
	<b>Sample Type</b>	GRAB
	<b>Frequency</b>	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	
	<b>2</b>	
	<b>3</b>	
	<b>4</b>	
	<b>5</b>	
	<b>6</b>	<0.17
	<b>7</b>	
	<b>8</b>	
	<b>9</b>	
	<b>10</b>	
	<b>11</b>	
	<b>12</b>	
	<b>13</b>	
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	<b>31</b>	

	<b>Sample Point</b>	002	
	<b>Description</b>	Prior to Storm Sewer Discharge	
	<b>Parameter</b>	517	
	<b>Description</b>	Vinyl chloride	
	<b>Units</b>	ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	0	
	<b>Daily Max</b>	<0.17	
	<b>Daily Min</b>	<0.17	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	10	0
	<b>Daily Max</b>		
	<b>Daily Min</b>		
<b>QA/QC Information</b>	<b>LOD</b>	0.17	
	<b>LOQ</b>	1	
	<b>QC Exceedance</b>	N	
	<b>Lab Certification</b>	405132750	

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Cristopher Cailles(ccailles) on 6/9/2022 10:04:23 AM