

Environmental Engineers, Geologists and Scientists

Tel 847.573.8900 Fax 847.573.8953 Polo Park Business Center 27834 N. Irma Lee Circle Lake Forest, Illinois 60045-5130

November 8, 2019

Mr. Trevor Moen SER Wastewater Program Wisconsin Department of Natural Resources 2300 North Dr. Martin Luther King, Jr. Drive Milwaukee, Wisconsin 53212-3128

RE: Discharge Monitoring Report for October 2019
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.

Gravity feed infiltration into the shallow subsurface continued in October 2019, as well as a test of gravity feed into infiltration two (2) of the medium depth injection wells within the 2410 tenant space. During the month, gravity feed infiltration was performed on October 29, 2019. RemOx® was distributed into a total of 13 injection wells during the injection activities. No pressure injection at depth was performed during the month.

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 with all required

information for the month of October 2019 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.

DMRs will continue to be submitted as required, even for months in which no chemical injections activities are performed, until such time as all injections activities are completed and closure termination of coverage under the WPDES Permit is requested using Form 3400-221. As directed, the submission of any future DMRs with "no discharge" will be temporarily withheld until being submitted concurrent to a DMR documenting actual injection activities.

If you have any questions or require additional information in regards to this submission, please contact me at 847-573-8900 extension 580. Thank you for your time.

Sincerely,

**DAI** Environmental, Inc.

Christopher Cailles, P.E.

Christopher Carlles

Project Engineer

Attachment

cc: Steven Dukatt – Carol Investment Corporation (w/enclosure electronically)

Riley Neuman – WDNR RR Program (w/enclosure electronically)

# ATTACHMENT A DISCHARGE MONITORING REPORT

# DISCHARGE MONITORING REPORT FORM - Contaminated Groundwater

2019

YEAR:

WPDES PERMIT NO. WI-0046566-07

PERMITTEE NAME: Sunrise Shopping Center FIN: 63340

SITE ADDRESS: 2410-2424 10th Ave & 1009 Marquette BRRTS #'s: 02-41-576336 & 02-41-579429 Ave., South Milwaukee, WI

IW-29(IW-7 to IW-15, IW-19, IW-21, IW-28, (potassium permanganate) 8 Injection Borings Gallons Total Daily 9 RemOx® Revised 7/2018 09 Sample Date Below (mm/dd/year) DMR-In-situ Contaminants Sample Point Description 2019 Frequency of Sampling October 29, Parameter Name Parameter Units Outfall Number Sample Type

RETURN REPORT NO LATER THAN: The 15th of the following month after injection, for the remainder of the remediation project. PLEASE ATTACH NOTES AND/OR ADDRESS-NAME CORRECTIONS ON A SEPARATE SHEET 2300 N. Dr. Martin Luther King Jr. Drive Milwaukee, WI 53212-3128 **ATTN: Chris Dietrich** SEND TO: Unless noted under parameter name, each daily value entered must be the highest value of all Authorized per WISCONSIN STATUTE 283.55 sample types analyzed for that day

Signature of Person Completing Form Westyden Carlles 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 A VALUE BEING REPORTED IS INACCURATE, I HAVE ADDED AN EXPLANATION INDICATING THE REASONS WHY THE VALUE IS INACCURATE.

Signature of Principal Exec. Officer or Authorized Agent Titl

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Date

## **Wastewater Discharge Monitoring Long Report**

Facility Name: SUNRISE SHOPPING CENTER

Contact Address: 27834 N Irma Lee Circle

Lake Forest, IL 60045

Facility Contact: Cristopher Cailles, Project Engineer

Phone Number: 847-573-8900

Reporting Period: 10/01/2019 - 10/31/2019

Form Due Date: 11/21/2019 Permit Number: 0046566

## For DNR Use Only

Date Received:

DOC: 432437 FIN: 63340

FID: 241828620

Region: Southeast Region
Permit Drafter: Drafter not set

Reviewer: Christopher A Dietrich

Office: Milwaukee

	Sample Point Description	Prior to Storm Sewer	D-i t- Ot O			
		Discharge	Prior to Storm Sewer Discharge			
I I	Parameter	211	377	40	54	393
	Description	Flow Rate	pH Field	Benzene	BETX, Total	PAHs
	Description	riow rate	princia	Benzene	BETA, Total	17410
	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	690.99				
[	2	690.99	6.9	<0.25	<1.37	<0.12
[	3	542.80				
1	4	542.80				
[	5	542.80				
	6	542.80				
1	7	542.80				
	8	542.80				
	9	542.80				
1	10	542.80				
[	11	542.80				
	12	542.80				
1	13	542.80				
[	14	542.80				
	15	542.80				
1	16	542.80				
	17	542.80				
[	18	542.80				
1	19	542.80				
[	20	542.80				
Ι Γ	21	542.80				
Ι Γ	22	542.80				
[	23	542.80				
[	24	542.80				
1	25	542.80				
[	26	542.80				
	27	542.80				
	28	542.80				
Į	29	542.80				
	30	542.80				
[	31	542.80				

Facility Name: SUNRISE SHOPPING CENTER Permit: 0046566 Reporting Period: 10/01/2019 to 10/31/2019 DOC: 432437

	Sample Point	002	002	002		002		002	
	Description	Prior to Storm Sewer	Prior to Storm Sewe		Prior to Storm Sewer		ewer	Prior to Storm Sewer	
		Discharge	Discharge	Discharge		Discharge		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	
Summary Values	Monthly Avg	552.360645161	6.9	0		0		0	
	Daily Max	690.99	6.9	<0.25		<1.37		<0.12	
	Daily Min	542.8	6.9	<0.25		<1.37		<0.12	
Limit(s) in Effect	Monthly Avg			50	0	750	0	0.10	0
	Daily Max		9 0						
	Daily Min		6 0						
QA/QC Information	LOD		1	0.25					
	LOQ			1					
	QC Exceedance	N	N	N		N		N	
	Lab Certification			40513275	0	405132750	)	405132750	)

	Sample Point	002	002	002	002	002
	Description	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
	Sample Type	GRAB	GRAB	GRAB	GRAB	GRAB
0I- BI	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2	<0.0093	<0.16	<4.0	<0.17	<1.3
	3 4					
	5					
	6					
	7					
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	28 29					
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	J 1					

	Sample Point	002		002		002		002		002	
	Description	Prior to Storm Se	wer	Prior to Storm Se			Prior to Storm Sewer		Prior to Storm Sewer		
		Discharge Discharge		Discharge		Discharge		Discharge		Discharge	
	Parameter	44		307		80		93		118	
	Description	Benzo(a)pyren	ie	Naphthalene		Bromoform		Carbon tetrachlo	ride	Chloroform	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		0		0		0	
	Daily Max	<0.0093		<0.16		<4		<0.17		<1.3	
	Daily Min	<0.0093		<0.16		<4		<0.17		<1.3	
Limit(s) in Effect	Monthly Avg	0.10	0	70	0	120	0	150	0	120	0
	Daily Max										
	Daily Min										
QA/QC Information	LOD	0.0093		0.016	ļ	4		0.17		1.3	
	LOQ	0.047		0.081		13.2		1		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	405132750	)	405132750	)	405132750	)	405132750	)	405132750	)

,	Sample Doint	002	002	002	002	002
	Sample Point Description	Prior to Storm Sewer	Prior to Storm Sewer	Prior to Storm Sewer	Prior to Storm Sewer	Prior to Storm Sewer
	Description	Discharge	Discharge	Discharge	Discharge	Discharge
ŀ	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
	Sample Type	GRAB	GRAB	GRAB	GRAB	GRAB
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2	<0.36	<0.28	<0.24	<0.97	<2.2
	3					
,	4					
,	5					
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	31					

	Sample Point	002		002		002		002		002	
	Description			Prior to Storm Se Discharge	ewer	Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge		Prior to Storm Sewer Discharge	
	Parameter	174		570		558		82		120	
	Description	Dichlorobromo methane (brom dichloromethan	10-	1,2-Dichloro- eth	ane	1,1-Dichloro- eth	ylene	Methyl bromid	е	Chloromethar	пе
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		0		0		0	
	Daily Max	<0.36		<0.28		<0.24		<0.97		<2.2	
	Daily Min	<0.36		<0.28		<0.24		<0.97		<2.2	
Limit(s) in Effect	Monthly Avg	120	0	180	0	50	0	120	0	120	0
	Daily Max										
	Daily Min										
QA/QC Information	LOD	0.36		0.28		0.24	<b>!</b>	0.97		2.2	
	LOQ	1.2		1		1		5		7.3	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	405132750	)	405132750	)	40513275	0	405132750	)	405132750	0

				1	222	
	Sample Point	002	002	002	002	002
	Description	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
	Sample Type	GRAB	GRAB	GRAB	GRAB	GRAB
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2	<0.28	<0.33	<0.55	<0.24	<0.26
	3					
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	Sample Point	002		002		002		002		002	
	Description	Prior to Storm Se Discharge	ewer	Prior to Storm Se Discharge	ewer	Prior to Storm S Discharge	ewer	Prior to Storm Se Discharge	ewer	Prior to Storm Se Discharge	ewer
	Parameter	565		490		563		561		508	
	Description	1,1,2,2-Tetrachlo ethane	oro-	Tetrachloroethyl	ene		thane	1,1,1-Trichloro- et	hane	Trichloro- ethyle	ene
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		0		0		0	
	Daily Max	<0.28		<0.33		<0.55		<0.24		<0.26	
	Daily Min	<0.28		<0.33		<0.55		<0.24		<0.26	
Limit(s) in Effect	Monthly Avg	50	0	50	0	50	0	50	0	50	0
	Daily Max										
	Daily Min										
QA/QC Information	LOD	0.28	Į.	0.33	<u>!</u>	0.55		0.24	!	0.26	
	LOQ	1		1.1		5		1		1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	405132750	)	405132750	)	40513275	0	405132750	)	405132750	)

	Sample Point	002
	Description	Prior to Storm Sewer Discharge
		Discharge
	Parameter	517
	Description	Vinyl chloride
	Units	ug/L
	Sample Type	GRAB
	Frequency	MONTHLY
Sample Results	Day 1	
	2	<0.17
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	Sample Point	002				
	Description	Prior to Storm Se	wer			
		Discharge				
	Parameter	517				
	Description	Vinyl chloride				
	Units	ug/L				
Summary	Monthly	0				
Values	Avg					
	Daily Max	<0.17				
	Daily Min	<0.17				
Limit(s) in Effect	Monthly Avg	10	0			
	Daily Max					
	Daily Min					
QA/QC Information	LOD	0.17				
	LOQ	1				
	QC Exceedance	N				
	Lab Certification	405132750				

ootnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
eneral Remarks
boratory Quality Control Comments

DOC: 432437

Submitted by Cristopher Cailles(ccailles) on 11/8/2019 8:18:26 AM