

December 4, 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 November 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 continued in November 2019, with infiltration into both shallow and medium depth injection wells within the 2410 tenant space, as well as medium depth injection wells within the 2412 tenant space. During the month, gravity feed infiltration was performed on November 7-8 and November 26, 2019. RemOx® was distributed into a total of 12 injection wells during the injection activities. No pressure injection at depth was performed during the month.

In addition to the gravity feed infiltration activities, a modified method of subsurface chemical was initiated on November 26, 2019, with the verbal approval of the WDNR Project Manager. Specifically, in-situ chemical mixing was performed within the 2410 tenant space utilizing an

excavator following the manual application of RemOx® granulated powder and water into the shallow subsurface soil. Chemical and water addition were performed as replacement, not in addition to the shallow injection points. A total of 55-lbs of chemical were applied along with 43.5-gallons of water into approximately 1/3 of the soil mixing area (21.75-ft by 9.25-ft by 3.5-ft).

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 November 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.

In addition to the November 2019 DMR, please note that October 2019 DMR errantly overstated the volume of injection infiltrated on October 29, 2019. A reported volume of 60-gallons of injectate were noted, where 54.25-gallons were actually introduced into the subsurface. Therefore, a corrected October 2019 form is also included with this submission.

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.  
Project Engineer

Attachment

cc: Steven Dukatt – Carol Investment Corporation (w/enclosure electronically)  
Riley Neuman – WDNR RR Program (w/enclosure electronically)

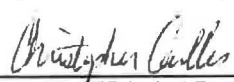
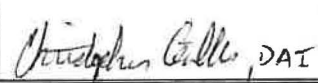
**ATTACHMENT A**  
**DISCHARGE MONITORING REPORTS**

**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 10<sup>th</sup> Ave & 1009 Marquette Ave., South Milwaukee, WI**

**WPDES PERMIT NO. WI-0046566-07**      **YEAR: 2019**  
 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>		
October 29, 2019	60 (IW-7 to IW-15, IW-19, IW-21, IW-28, IW-29) 54.25 GNC, 12/4/19	
<b>Sample Type</b>	Total	
<b>Frequency of Sampling</b>	Daily	

<p>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</p>	<p><b>PLEASE ATTACH NOTES AND/OR ADDRESS-NAME CORRECTIONS ON A SEPARATE SHEET</b>  <b>RETURN REPORT NO LATER THAN: The 15th of the following month after injection, for the remainder of the remediation project.</b></p>	
	<p><b>SEND TO:    ATTN: Chris Dietrich</b>  <b>2300 N. Dr. Martin Luther King Jr. Drive</b>  <b>Milwaukee, WI 53212-3128</b></p>	
<p>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.</p>	Signature of Person Completing Form 	Date 11/8/19
	Signature of Principal Exec. Officer or Authorized Agent 	Title as authorized agent to Carl Investment Corporation

**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 10<sup>th</sup> Ave & 1009 Marquette Ave., South Milwaukee, WI

**WPDES PERMIT NO. WI-0046566-07**      **YEAR:** 2019  
 DMR-In-situ Contaminants      Revised 7/2018

Outfall Number	001	
Sample Point Description	8 Injection Borings	
Parameter Name	RemOx® (potassium permanganate)	
Parameter Units	Gallons	
Sample Date Below (mm/dd/year)		
November 7, 2019	10 (IW-9, IW-11, IW-24, IW-26, IW-30, IW-31)	
November 8, 2019	7.75 (IW-9, IW-11, IW-13, IW-24, IW-26, IW-28, IW-29)	
November 26, 2019	2.75 (IW-10, IW-12, IW-20)	
November 26, 2019	55-lbs/43.5-gal water (in-situ soil mixing, 2410 tenant space)	
Sample Type	Total	
Frequency of Sampling	Daily	

<p>Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day.  <b>Authorized per WISCONSIN STATUTE 283.55</b></p>	<p><b>PLEASE ATTACH NOTES AND/OR ADDRESS-NAME CORRECTIONS ON A SEPARATE SHEET</b>  <b>RETURN REPORT NO LATER THAN:</b> The 15th of the following month after injection, for the remainder of the remediation project.</p>
<p>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.</p>	<p><b>SEND TO:    ATTN: Chris Dietrich</b>  <b>2300 N. Dr. Martin Luther King Jr. Drive</b>  <b>Milwaukee, WI 53212-3128</b></p>
	<p>Signature of Person Completing Form <span style="float: right;">Date</span></p> <p><i>Christopher Collins</i> <span style="float: right;">12/4/19</span></p>
	<p>Signature of Principal Exec. Officer or Authorized Agent Title <span style="float: right;">Date</span></p> <p><i>Christopher Collins, DAI</i> <span style="float: right;">12/4/19</span>  <i>as authorized agent to Carol Investment Corporation</i></p>

**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

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: 11/01/2019 - 11/30/2019  
 Form Due Date: 12/21/2019  
 Permit Number: 0046566

Date Received:  
 DOC: 432438  
 FIN: 63340  
 FID: 241828620  
 Region: Southeast Region  
 Permit Drafter: Drafter not set  
 Reviewer: Christopher A Dietrich  
 Office: Milwaukee

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	<b>Day 1</b>	542.80				
	<b>2</b>	542.80				
	<b>3</b>	542.80				
	<b>4</b>	542.80	8.25	<0.25	<2.14	<0.12
	<b>5</b>	339.21				
	<b>6</b>	339.21				
	<b>7</b>	339.21				
	<b>8</b>	339.21				
	<b>9</b>	339.21				
	<b>10</b>	339.21				
	<b>11</b>	339.21				
	<b>12</b>	339.21				
	<b>13</b>	339.21				
	<b>14</b>	339.21				
	<b>15</b>	339.21				
	<b>16</b>	339.21				
	<b>17</b>	339.21				
	<b>18</b>	339.21				
	<b>19</b>	339.21				
	<b>20</b>	339.21				
	<b>21</b>	339.21				
	<b>22</b>	339.21				
	<b>23</b>	339.21				
	<b>24</b>	339.21				
	<b>25</b>	339.21				
	<b>26</b>	339.21				
	<b>27</b>	339.21				
	<b>28</b>	339.21				
	<b>29</b>	339.21				
	<b>30</b>	339.21				
	<b>31</b>					

	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>	366.3553333333		8.25		0		0	
	<b>Daily Max</b>	542.8		8.25		<0.25		<2.14	
	<b>Daily Min</b>	339.21		8.25		<0.25		<2.14	
<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>					0.25			
	<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>	<0.0093	<0.016	<4.0	<0.17	<1.3
	<b>5</b>					
	<b>6</b>					
	<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>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<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	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	<0.0093		<0.016		<4		<0.17		<1.3	
	Daily Min	<0.0093		<0.016		<4		<0.17		<1.3	
<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	0.0093		0.016		4		0.17		1.3	
	LOQ	0.047		0.081		13		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>	<0.36	<0.28	<0.24	<0.97	<2.2
	<b>5</b>					
	<b>6</b>					
	<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>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<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	Dichlorobromomethane (bromodichloromethane)		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>	<0.36		<0.28		<0.24		<0.97		<2.2	
	<b>Daily Min</b>	<0.36		<0.28		<0.24		<0.97		<2.2	
<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>	0.36		0.28		0.24		0.97		2.2	
	<b>LOQ</b>	1.2		1		1		5		7.3	
	<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>	<0.28	<0.33	<0.55	<0.24	<0.26
	<b>5</b>					
	<b>6</b>					
	<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>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<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	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>	<b>Monthly Avg</b>	0		0		0		0		0	
	<b>Daily Max</b>	<0.28		<0.33		<0.55		<0.24		<0.26	
	<b>Daily Min</b>	<0.28		<0.33		<0.55		<0.24		<0.26	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	50	0	50	0	50	0	50	0	50	0
	<b>Daily Max</b>										
	<b>Daily Min</b>										
<b>QA/QC Information</b>	<b>LOD</b>	0.28		0.33		0.55		0.24		0.26	
	<b>LOQ</b>	1		1.1		5		1		1	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	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>	<0.17
	<b>5</b>	
	<b>6</b>	
	<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>	
	<b>20</b>	
	<b>21</b>	
	<b>22</b>	
	<b>23</b>	
	<b>24</b>	
	<b>25</b>	
	<b>26</b>	
	<b>27</b>	
	<b>28</b>	
	<b>29</b>	
	<b>30</b>	
	<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 12/4/2019 10:08:53 AM