AYRES ASSOCIATES

August 17, 2018

Ms. Victoria Stovall
Wisconsin Department of Natural Resources
P.O. Box 12436
Milwaukee, WI 53212

Re: 2018 Annual Operation and Maintenance Report
Fadrowski Drum Disposal Site
Franklin, Wisconsin

Dear Ms. Stovall:

In accordance with the Fadrowski Drum Disposal Site (FDDS) Operation and Maintenance (O&M) Plan and the April 2005 Consent Order, this letter is the annual report for the site. The report presents data, observations, and recommendations relative to operation and maintenance of remedial elements based on a site visit conducted on May 23, 2018. The site inspection report and photo pages 1 through 12 document site conditions. See Attachment 1.

SITE FENCING

Observation

The perimeter of the site was walked and it was noted that the condition of the fence and locks were in good condition.

Action Recommended

None

ACCESS ROAD

Observations

In general, the access road was in good condition. There was no apparent erosion of the road and there are no access problems. However, the gravel road is overgrown with weeds and grass.

Action Recommended

Clear gravel road of grass and weeds.

File: v:\env\ec\secr-wm\51-0253.18\180817fadr.docx

FINAL COVER SYSTEM

Observations

The surface of the final cover system is in good condition. No erosion has occurred. The grass is healthy; approximately 8-10 inches in height.

Action Recommended

None.

LEACHATE COLLECTION SYSTEM

Observations

The leachate pump is working. The fourth quarter of 2017, and the first and second quarters of 2018 compliance and discharge reports are attached. The estimated discharge to the Milwaukee Metropolitan Sewerage District (MMSD) for each quarter is listed below:

Quarter	Leachate Discharged
Fourth quarter 2017	158,100
First quarter 2018	143,820
Second quarter 2018	711,450

See Attachment 2 for copies of the MMSD compliance and discharge reports.

Recommendations

None.

ENVIRONMENTAL MONITORING NETWORK

Observations

The monitoring network is in good condition and surface seals remain intact.

Recommendations

None.

SUMMARY OF RECOMMENDED ATTENTION

Action was recommended for the summer of 2018 to clear the access road of weeds and grass.

If you have any questions regarding the site, please contact me at 715.834.3161.

Sincerely,

Ayres Associates Inc

Nicole Bader
Geologist
715.834.3161
Fax: 715.831.7500
BaderN@AyresAssociates.com

Fadrowski Site Trust

Theron J. Berg
Real Estate Manager

Ayres Associates Inc

Lori A Rosemore, PG
Hydrogeologist
715.834.3161
RosemoreL@AyresAssociates.com

Enclosures

cc: Binyoti Amungwafor, WDNR, 2300 N. M.L. King Jr. Drive, Milwaukee, WI 53212
David Linnear, U.S. EPA (SR-6J), 77 W. Jackson Boulevard, Chicago, IL 60604

Attachment 1

AYRES ASSOCIATES

FADROWSKI DRUM DISPOSAL SITE
SEMI-ANNUAL INSPECTION REPORT

GENERAL INFORMATION:

DATE: 5/23/18

TIME: 15:00

INSPECTION BY: Scott Freimark

WEATHER: Mostly Sunny, 77 ^{0}F

PRESENT AT SITE: ESC

SITE FENCING:

ENTIRE PERIMETER WALKED? (IF NO, DESCRIBE): Yes.

ANY DAMAGE TO SECURITY FENCE? (IF YES, DESCRIBE): No.

NOTE CONDITION OF FENCE LOCKS: Good

NOTE CONDITION OF WOOD SCREENING FENCE: Good

NOTE ANY NECESSARY REPAIRS TO FENCE: NA.

NOTE ANY PHOTOS TAKEN: Yes - See Attached

ACCESS ROAD:

ENTIRE ROAD WALKED? (IF NO, DESCRIBE): Yes / OK

ANY EROSION OF WASHOUTS APPARENT ON ROAD? (IF YES, DESCRIBE): No / Not Apparent

NOTE ANY NECESSARY REPAIRS: Gravel road is overgrown with grass & weeds.

NOTE ANY PHOTOS TAKEN: Yes - See Attached

FINAL COVER SYSTEM:

FINAL COVER SYSTEM WALKED? (IF YES, DESCRIBE): Yes, landfill cover is in good condition.

DESCRIBE CONDITION OF COVER SYSTEM, NOTING EROSION/DAMAGE: Good/None

FINAL COVER SYSTEM (CON'T):

NOTE TYPE, HEIGHT AND COVERAGE OF VEGETATION: Grass is healthy about 8-10 in height.

NOTE CONDITION OF STORMWATER STRUCTURES: Good

NOTE CONDITION OF EROSION CONTROL FEATURES: Good

NOTE NECESSARY REPAIRS TO COVER SYSTEM: None.

NOTE PHOTOS TAKEN: Yes - See Attached

LEACHATE COLLECTION SYSTEM:

PUMP SEAL FAILURE ALARM TESTED? (IF YES, DESCRIBE): No.

PUMP THERMAL PROTECTION ALARM TESTED? (IF YES, DESCRIBE): No

UST LEAK DETECTION ALARM TESTED? (IF YES, DESCRIBE): No

LIFT STATION FLOATS TESTED? (IF YES, DESCRIBE): Yes, system working.

LEACHATE FLOW METER CALIBRATED? (IF YES, ATTACH REPORT): No - Not Functioning

ENVIRONMENTAL MONITORING NETWORK:

DESCRIBE CONDITION OF MONITORING WELL PROTECTIVE COVERS: Good / in good working condition

DESCRIBE CONDITION OF MONITORING WELL SURFACE SEALS: Good / surface seals are mounded around protective casings

DESCRIBE CONDITION OF SEDIMENT/SURFACE WATER SAMPLING POINT BENCHMARKS: NA / Not inspected

WERE SEDIMENT/SURFACE WATER SAMPLING POINT BENCHMARKS RE-SURVEYED? NA

LEACHATE FLOW METER CALIBRATED? (IF YES, ATTACH REPORT): No - Not Functioning

NOTES:

Annual Environmental Monitoring was also conducted on 5/23/18 along with the site inspection.

Photo #1: Picture of the front gate looking west.

Photo #2: Picture of the front gate area including the wood privacy fence along the east side of the site.

Photo #3: Picture of the front gate area including the wood privacy fence along the north side of the site.

Photo #4: Picture of the access road looking west toward the leachate panel area.

Photo #5: Picture of the leachate lift station, panel and manhole area.

Photo #6: Picture taken of the rear gate to the site.

Photo #7: Picture of the south fence line looking west.

Photo #8: Picture of the east fence line looking south.

Photo #9: Picture of the west fence line looking north.

Photo #10: Picture of the MW-6 well nest looking south.

Photo #11: Picture of the MW-7 well nest looking south.

Photo #12: Picture of the MW-8 well nest looking north.

Photo #13: Picture of the MW-9 well nest looking east.

Photo #14: Picture of the surface water drainage rip-rap looking east.

Photo #15: Picture of the north fence looking west.

Attachment 2

ENVIRONMENTAL SAMPLING CORPORATION

Dedicated to Environmental Monitoring, Science & Technology

January 15, 2018

Mr. Song Tran
Milwaukee Metropolitan Sewerage District
P.O. Box 3049
Milwaukee, WI 53201-3049

Re: Fadrowski Drum Disposal Site
Fourth Quarter 2017 Compliance and Discharge Report

Dear Mr. Tran:

This letter serves as a quarterly discharge report for leachate discharge from the Fadrowski Drum Disposal Site (FDDS) during the months of October, November, and December 2017. Monthly discharge readings and flow meter calibration results are summarized in this report.

DISCHARGE

Monthly flow meter readings were recorded on 10/06/17, 11/10/17, 12/08/17, and 01/08/18.

The Fourth Quarter 2017 flows were calculated using the pump hour meter and performance curves provided by the manufacturer (Aurora Pumps) for compliance reporting. An annual field calibration in May 2017 of the pump flow rate was conducted and the flow rate was confirmed to be 85 gpm. Please refer to the attached Discharge Report for monthly hour meter readings. The Fourth Quarter 2017 monthly pump hours and discharge volumes are summarized below.

Fourth Quarter 2017 Flow Summary

Time Period 2017	Monthly Pump Hours	Ave. Flow Rate (gpm)	Period Discharge (gal)
10/06/17 – 11/10/17	11.3	85.0	57,630
11/10/17 – 12/08/17	11.6	85.0	59,160
12/08/17 – 01/08/18	8.1	85.0	41,310
Total:	**31.0**	**85.0**	**158,100**

Main Office: P.O. Box 12 • Muskego, WI 53150-0012 • (414) 427-5033 • FAX (414) 427-5034

Year to Date Flow Summary

Time Period	Quarterly Discharge (Gal)	Total Discharge (Gal)
First Quarter (01/03/17 to 04/07/17)	355,470	19,582,342
Second Quarter (04/07/17 to 07/07/17)	793,050	20,375,392
Fourth Quarter (07/07/17 to 10/06/17)	318,240	20,693,632
Fourth Quarter (10/06/17 to 01/08/18)	158,100	20,851,732
2017 Total	**1,624,860**	
System Total		**20,851,732**

FLOW METER CALIBRATION

Field calibration of the flow meter is performed annually by ESC personnel. The last field calibration of the pump flow rate was conducted in May 2017. The flow rate was confirmed to be 85 gpm. The Hydro Ranger flow meter has malfunctioned and can no longer be used for field calibration. The next annual flow meter field calibration is scheduled for May 2018.

COMPLIANCE MONITORING

No compliance monitoring was required during Fourth Quarter 2017.

CERTIFICATIONS

In accordance with Section 3.01 (1)(b) of the FDDS Discharge Permit, the following certification is provided:

"To the best of my knowledge, my facility does not store, use, or create the pollutants prohibited by sec. 11.202(13), MMSD Rules, in any process, activity or operation. My knowledge is based upon visual inspection of my facility, information supplied by material data safety sheets, and my understanding of the processes, activities, and operations at my facility. This certification does not apply to polychlorinated biphenyls. I have no reason to believe that polychlorinated biphenyls are discharged by my facility to the sewerage system."

In accordance with Section 3.08 of the FDDS Discharge Permits, the following certification is provided:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

SUMMARY

Environmental Sampling Corporation has been retained by Menard, Inc. to monitor leachate discharge at the site using the totalizing flow meter and/or the pump run time hour meter. The next quarterly report will be submitted to the district by April 15, 2018.

If you have any questions or comments regarding this submittal, please feel free to contact Frank Perugini at (414) 427-5033, or Lori Rosemore (Ayres Associates) at (715) 834-3161.

Sincerely,

Frank Perugini (TI)
Frank Perugini
Director of Operations
Environmental Sampling Corporation

Theron Berg
Real Estate Manager
Menard, Inc.

Enclosures

cc: Lori Rosemore - Ayres Associates
Scott Freimark – ESC

Environmental
Sampling
Corporation

Fadrowski Drum Disposal Site
Leachate Flow Meter
Discharge Report

Fourth Quarter 2017

Time Period 2017	Meter Readings (Hr.)	Pump Operation Hours (Hr)	Flow Rate (Avg. gpm)	Period Discharge (gallons)
10/06/17 - 11/10/17	4665.8 (10/06/17) 4677.1 (11/10/17)	11.3	85	57,630
11/10/17 - 12/08/17	4677.1 (11/10/17) 4688.7 (12/08/17)	11.6	85	59,160
12/08/17 - 01/08/18	4688.7 (12/08/17) 4696.8 (01/08/18)	8.1	85	41,310
10/06/17 - 01/08/18	**4665.8 (10/06/17) 4696.8 (01/08/18)**	**31.0**	**85**	**158,100**

COMMENTS:

In May 2017, a field calibration of the pump flow rate was conducted and the flow rate was confirmed to be 85 gpm.

Prepared By: SF
Checked By: TI

ENVIRONMENTAL SAMPLING CORPORATION

Dedicated to Environmental Monitoring, Science & Technology

April 13, 2018

Mr. Song Tran
Milwaukee Metropolitan Sewerage District
P.O. Box 3049
Milwaukee, WI 53201-3049

Re: Fadrowski Drum Disposal Site
First Quarter 2018 Compliance and Discharge Report

Dear Mr. Tran:

This letter serves as a quarterly discharge report for leachate discharge from the Fadrowski Drum Disposal Site (FDDS) during the months of January, February, and March 2018. Monthly discharge readings and flow meter calibration results are summarized in this report.

DISCHARGE

Monthly flow meter readings were recorded on 01/08/18, 02/08/18, 03/06/18, and 04/07/18.

The First Quarter 2018 flows were calculated using the pump hour meter and performance curves provided by the manufacturer (Aurora Pumps) for compliance reporting. An annual field calibration in May 2017 of the pump flow rate was conducted and the flow rate was confirmed to be 85 gpm. Please refer to the attached Discharge Report for monthly hour meter readings. The First Quarter 2018 monthly pump hours and discharge volumes are summarized below.

First Quarter 2018 Flow Summary

Time Period 2018	Monthly Pump Hours	Ave. Flow Rate (gpm)	Period Discharge (gal)
01/08/18 – 02/08/18	15.1	85.0	77,010
02/08/18 – 03/06/18	7.0	85.0	35,700
03/06/18 – 04/07/18	6.1	85.0	31,110
Total:	**28.2**	**85.0**	**143,820**

Main Office: P.O. Box 12 • Muskego, WI 53150-0012 • (414) 427-5033 • FAX (414) 427-5034

Year to Date Flow Summary

Time Period	Quarterly Discharge (Gal)	Total Discharge (Gal)
First Quarter (01/08/18 - 04/07/18)	143,820	20,995,552
2018 Total	**143,820**	
System Total		**20,995,552**

FLOW METER CALIBRATION

Field calibration of the flow meter is performed annually by ESC personnel. The last field calibration of the pump flow rate was conducted in May 2017. The flow rate was confirmed to be 85 gpm. The Hydro Ranger flow meter has malfunctioned and can no longer be used for field calibration. The next annual flow meter field calibration is scheduled for May 2018.

COMPLIANCE MONITORING

No compliance monitoring was required during First Quarter 2018.

CERTIFICATIONS

In accordance with Section 3.01 (1)(b) of the FDDS Discharge Permit, the following certification is provided:

"To the best of my knowledge, my facility does not store, use, or create the pollutants prohibited by sec. 11.202(13), MMSD Rules, in any process, activity or operation. My knowledge is based upon visual inspection of my facility, information supplied by material data safety sheets, and my understanding of the processes, activities, and operations at my facility. This certification does not apply to polychlorinated biphenyls. I have no reason to believe that polychlorinated biphenyls are discharged by my facility to the sewerage system."

In accordance with Section 3.08 of the FDDS Discharge Permits, the following certification is provided:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

SUMMARY

Environmental Sampling Corporation has been retained by Menard, Inc. to monitor leachate discharge at the site using the totalizing flow meter and/or the pump run time hour meter. The next quarterly report will be submitted to the district by July 15, 2018.

If you have any questions or comments regarding this submittal, please feel free to contact Frank Perugini at (414) 427-5033, or Lori Rosemore (Ayres Associates) at (715) 834-3161.

Sincerely,

Frank Perugini /TI

Frank Perugini
Director of Operations
Environmental Sampling Corporation

Theron Berg
Real Estate Manager
Menard, Inc.

Enclosures

cc: Lori Rosemore - Ayres Associates
Scott Freimark – ESC (electronic copy)

Environmental
Sampling
Corporation

Fadrowski Drum Disposal Site
Leachate Flow Meter
Discharge Report

First Quarter 2018

Time Period 2018	Meter Readings (Hr.)		Pump Operation Hours (Hr)	Flow Rate (Avg. gpm)	Period Discharge (gallons)
01/08/18 - 02/08/18	4696.8 4711.9	(01/08/18) (02/08/18)	15.1	85	77,010
02/08/18- 03/06/18	4711.9 4718.9	(02/08/18) (03/06/18)	7.0	85	35,700
03/06/18- 04/07/18	4718.9 4725.0	(03/06/18) (04/07/18)	6.1	85	31,110
01/08/18- 04/07/18	4696.8 4725.0	(01/08/18) (04/07/18)	**28.2**	**85**	**143,820**

COMMENTS:

None

Prepared By: SF
Checked By: TI

ENVIRONMENTAL SAMPLING CORPORATION

Dedicated to Environmental Monitoring, Science & Technology

July 16, 2018

Mr. Song Tran
Milwaukee Metropolitan Sewerage District
P.O. Box 3049
Milwaukee, WI 53201-3049

Re: Fadrowski Drum Disposal Site
Second Quarter 2018 Compliance and Discharge Report

Dear Mr. Tran:

This letter serves as a quarterly discharge report for leachate discharge from the Fadrowski Drum Disposal Site (FDDS) during the months of April, May, and June 2018. Monthly discharge readings and flow meter calibration results are summarized in this report.

DISCHARGE

Monthly flow meter readings were recorded on 04/07/18, 05/04/18, 06/04/18, and 07/09/18.

The Second Quarter 2018 flows were calculated using the pump hour meter and performance curves provided by the manufacturer (Aurora Pumps) for compliance reporting. In May 2018 the annual field calibration of the pump flow rate was conducted, and the flow rate was confirmed to be 85 gpm. Please refer to the attached Discharge Report for monthly hour meter readings. The Second Quarter 2018 monthly pump hours and discharge volumes are summarized below.

Second Quarter 2018 Flow Summary

Time Period 2018	Monthly Pump Hours	Ave. Flow Rate (gpm)	Period Discharge (gal)
04/07/18 – 05/04/18	33.8	85.0	172,380
05/04/18 – 06/04/18	51.2	85.0	261,120
06/04/18 – 07/09/18	54.5	85.0	277,950
Total:	**139.5**	**85.0**	**711,450**

Year to Date Flow Summary

Time Period	Quarterly Discharge (Gal)	Total Discharge (Gal)
First Quarter (01/08/18 - 04/07/18)	143,820	20,995,552
Second Quarter (04/07/18 - 07/09/18)	711,450	21,707,002
2018 Total	**855,270**	
System Total		**21,707,002**

FLOW METER CALIBRATION

Field calibration of the flow meter is performed annually by ESC personnel. The last field calibration of the pump flow rate was conducted in May 2018. The flow rate was confirmed to be 85 gpm. The Hydro Ranger flow meter has malfunctioned and can no longer be used for field calibration. The next annual flow meter field calibration is scheduled for May 2019.

COMPLIANCE MONITORING

No compliance monitoring was required during Second Quarter 2018.

CERTIFICATIONS

In accordance with Section 3.01 (1)(b) of the FDDS Discharge Permit, the following certification is provided:

"To the best of my knowledge, my facility does not store, use, or create the pollutants prohibited by sec. 11.202(13), MMSD Rules, in any process, activity or operation. My knowledge is based upon visual inspection of my facility, information supplied by material data safety sheets, and my understanding of the processes, activities, and operations at my facility. This certification does not apply to polychlorinated biphenyls. I have no reason to believe that polychlorinated biphenyls are discharged by my facility to the sewerage system."

In accordance with Section 3.08 of the FDDS Discharge Permits, the following certification is provided:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

SUMMARY

Environmental Sampling Corporation has been retained by Menard, Inc. to monitor leachate discharge at the Fadrowski Drum Disposal site, located on So. 27th Street in Franklin, WI, using the totalizing flow meter and/or the pump run time hour meter. The next quarterly report will be submitted to the district by October 15, 2018.

If you have any questions or comments regarding this submittal, please feel free to contact Frank Perugini at (414) 427-5033, or Lori Rosemore (Ayres Associates) at (715) 834-3161.

Sincerely,

Frank Perugini
Director of Operations
Environmental Sampling Corporation

Theron Berg
Real Estate Manager
Menard, Inc.

Enclosures

cc: Lori Rosemore - Ayres Associates
Scott Freimark – ESC (electronic copy)

Environmental
Sampling
Corporation

Fadrowski Drum Disposal Site
Leachate Flow Meter
Discharge Report

Second Quarter 2018

Time Period 2018	Meter Readings (Hr.)		Pump Operation Hours (Hr)	Flow Rate (Avg. gpm)	Period Discharge (gallons)
04/07/18- 05/04/18	4725.0 4758.8	(04/07/18) (05/04/18)	33.8	85	172,380
05/04/18- 06/04/18	4758.8 4810.00	(05/04/18) (06/04/18)	51.2	85	261,120
06/04/18- 07/09/18	4810.0 4864.5	(06/04/18) (07/09/18)	54.5	85	277,950
04/07/18- 07/09/18	**4725.0 4864.5**	**(04/07/18) (07/09/18)**	**139.5**	**85**	**711,450**

COMMENTS:

None

Prepared By: SF
Checked By: IP