CHARACTERISTIC REPORT: s.283.55(1), Wis. Stats. Form 3400-49 Rev. 1-98

(Municipal Sludge, Industrial Sludge, Liquid Industrial Waste and By-Product Solids)

Permit No: **0036820**

Facility: MILWAUKEE METRO SEW DIST COMBINED
260 W. Seeboth St
Milwaukee , WI 53204-1446

FIN: 6555 Region: Southeast Region DOC: 364716

FID: 241487400 Date Received:

Forms require electronic submittal.

Submit form electronically and keep a version of the form for your records.

Reporting Period: 08/01/2016 - 08/31/2016

Form Due Date: 01/31/2017

Did you land apply this period? Yes

If yes and Municipal Sludge:

A) Were Class A Pathogen Requirements Satisfied? Yes

B) Were Vector Control Requirements Satisfied? Yes

Submit a copy of your lab reports, to your facility's DNR sludge representative or basin engineer unless instructed otherwise. Email submittal is preferred.

A) Parameters to be Sampled

DNR Contact: Laura A Dietrich

Sample Point Number	Parameter Number	Parameter	Date Sample Taken	Sample Type	Analytical Results	Units	Limit	Municipal Sludge Only		Lab Certification Number
								High Quality Limit	Date Analyzed for Organics	
006	33	Arsenic Dry Wt	08/31/2016	COMP	2.0	mg/kg		41		241325920
006	86	Cadmium Dry Wt	08/31/2016	COMP	0.17	mg/kg		39		241325920
006	145	Copper Dry Wt	08/31/2016	COMP	230	mg/kg		1500		241325920
006	262	Lead Dry Wt	08/31/2016	COMP	37	mg/kg		300		241325920
006	278	Mercury Dry Wt	08/27/2016	COMP	0.32	mg/kg		17		999580010
006	295	Molybdenum Dry Wt	08/31/2016	COMP	12	mg/kg	75			241325920
006	313	Nickel Dry Wt	08/31/2016	COMP	31	mg/kg		420		241325920
006	421	Selenium Dry Wt	08/31/2016	COMP	4.5	mg/kg		100		241325920
006	551	Zinc Dry Wt	08/31/2016	COMP	470	mg/kg		2800		241325920
006	461	Solids, Total	08/31/2016	COMP	93.2	Percent				241325920
006	335	Nitrogen, Total Kjeldahl	08/13/2016	COMP	5.8	Percent				241325920
006	388	Phosphorus, Total	08/31/2016	COMP	2.3	Percent				241325920
006	686	Phosphorus, Water Extractable	08/13/2016	COMP	0.024	Percent				241325920
006	395	Potassium, Total Recoverable	08/31/2016	COMP	0.35	Percent				241325920
006	365	PCB Total Dry Wt	08/31/2016	COMP	0.082	mg/kg				405132750

OUTFALLS

006 - Milorganite (Jones Island)

CHARACTERISTIC REPORT: s.283.55(1), Wis. Stats. Form 3400-49 Rev. 1-98
(Municipal Sludge, Industrial Sludge, Liquid Industrial Waste and By-Product Solids)

Reporting Period: 08/01/2016 - 08/31/2016
Form Due Date: 01/31/2017

Permit No: **0036820**
Facility: MILWAUKEE METRO SEW DIST COMBINED
260 W. Seeboth St
Milwaukee , WI 53204-1446
FIN: 6555 Region: Southeast Region DOC: 364716

Municipal Sludge Only

Pathogens

Sample Point Number	Requirement Met	Class	Process Code / Process Description	Bacteria	Amount	Unit	Start Date	End Date
006	Yes	A	Heat Drying The temperature of sewage sludge particles exceeds 80°C / 176° F and the moisture content of the sludge is less than 10%.	Fecal Coliform	2.9	MPN/g TS	08/02/2016	08/15/2016

Vectors

Sample Point Number	Requirement Met	Vector Reduction	Amount	Date
006	Yes	Drying With Primary Solids > 90% (% TS)	93.2	08/31/2016

Description of Facility Sample Point:

A daily (defined as 5 a.m. to 5 a.m.) mass flow proportional sample is collected by an automatic sampler. Individual samples for the daily composite are collected every four tons of production as measured by the product belt scale. All parameters above are analyzed daily except Hg and TKN. Weekly composite samples are collected by combining daily samples in an amount proportional to overall production for a seven day period defined as Sunday through Saturday. One weekly composite sample is analyzed for TKN and four or five composites are analyzed for Hg each month.

Comments:

The following QA flags are reported on the noted dates for the following parameters. An explanation of the flags will accompany the lab reports submitted to the basin engineer.
As: J: 5,11,12,16,17,24.
Cd: J: 1,3-8,15,17,20,29,30.
Cu: Q3: 4.
Mo: Q3:8.
P: Q3: 4,12,18. B9: 10-12,16,31. AO: 15. Q2: 25.
K: AO: 4-9,11-18,20-22,27-29. B9: 4,6-10,12-18,20-23,30,31. Q2: 18,25. Q3: 12,18,30.
Se: B7: 1,5-29,31. J: 2,11,21,24. B8: 3. B9: 19. AO: 19.

Pathogen Control:

In 2015 and prior, the geometric mean was reported. However, the highest sample value is now reported in the table above though two of the three values were below the LOD.

Actual fecal coliform values: 2.9, <0.22, <0.22 MPN/gTS. Geometric mean: 0.52 MPN/gTS.