

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 17-21

CONTROLLED SOLIDS DISTRIBUTION REPORT

FOR FIRST QUARTER 2017

May 2017

Protecting Our Water Environment

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CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
6001 WEST PERSHING ROAD CICERO, ILLINOIS 60804-4112

May 2, 2017

Mr. S. Alan Keller, P.E.
Manager, Permit Section
Illinois Environmental
Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Dear Mr. Keller:

Subject: Metropolitan Water Reclamation District of Greater Chicago – Controlled Solids Distribution Program Illinois Environmental Protection Agency Permit No. 2015-SC-59620, First Quarter (January – March 2017)

This letter transmits information and data for the Metropolitan Water Reclamation District of Greater Chicago – Controlled Solids Distribution Program for the first quarter (January – March 2017), as required by Illinois Environmental Protection Agency Permit No. 2015-SC-59620.

Sludge flow schematic diagrams for solids processed during January – March 2017 are shown in Figure 1 – John E. Egan Water Reclamation Plant (WRP), Figure 2 – Calumet WRP, and Figure 3 – Stickney WRP.

Composted biosolids were used at two sites during the first quarter of 2017. The user information reports for these sites are presented in Table 1, and the analyses of composed biosolids delivered to these sites are presented in Table 2.

Very truly yours,

Albert E. Cox, Ph.D.
Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:OO:cm

Attachments

cc/att: Mr. J. Colletti (USEPA)/Mr. J. Patel (IEPA)
Mr. E. Podczerwinski
Mr. J. Murray/Mr. B. Garelli/Mr. T. Conway
Mr. Ahmad Laban/Dr. H. Zhang/Dr. A. Cox
Dr. G. Tian/Dr. O. Oladeji

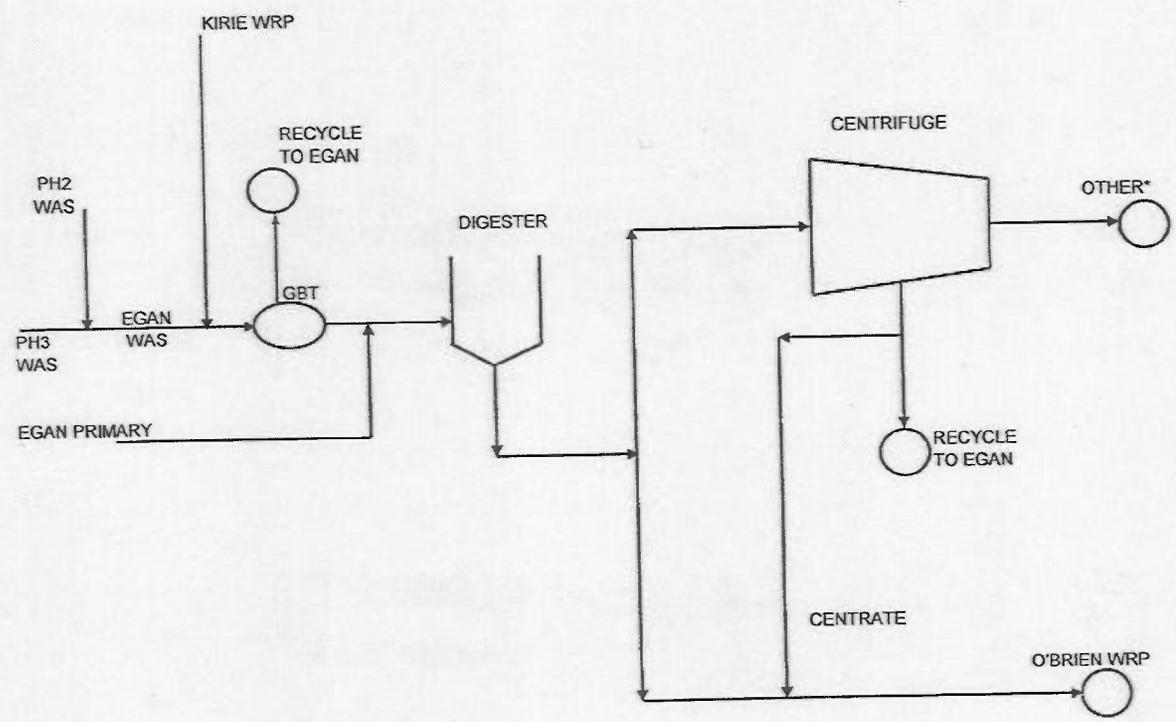
Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, IL 60611-2803 (312) 751-5600

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FIRST QUARTER 2017**

**Monitoring and Research Department
Edward W. Podcerwinski, Acting Director**

May 2017

FIGURE 1: JOHN E. EGAN WATER RECLAMATION PLANT OPERATIONAL FLOW CHART FOR FIRST QUARTER 2017



*Sent to either Stickney or Calumet drying sites for further processing or storage prior to farmland application.

FIGURE 2: CALUMET WATER RECLAMATION PLANT OPERATIONAL FLOW CHART FOR FIRST QUARTER 2017

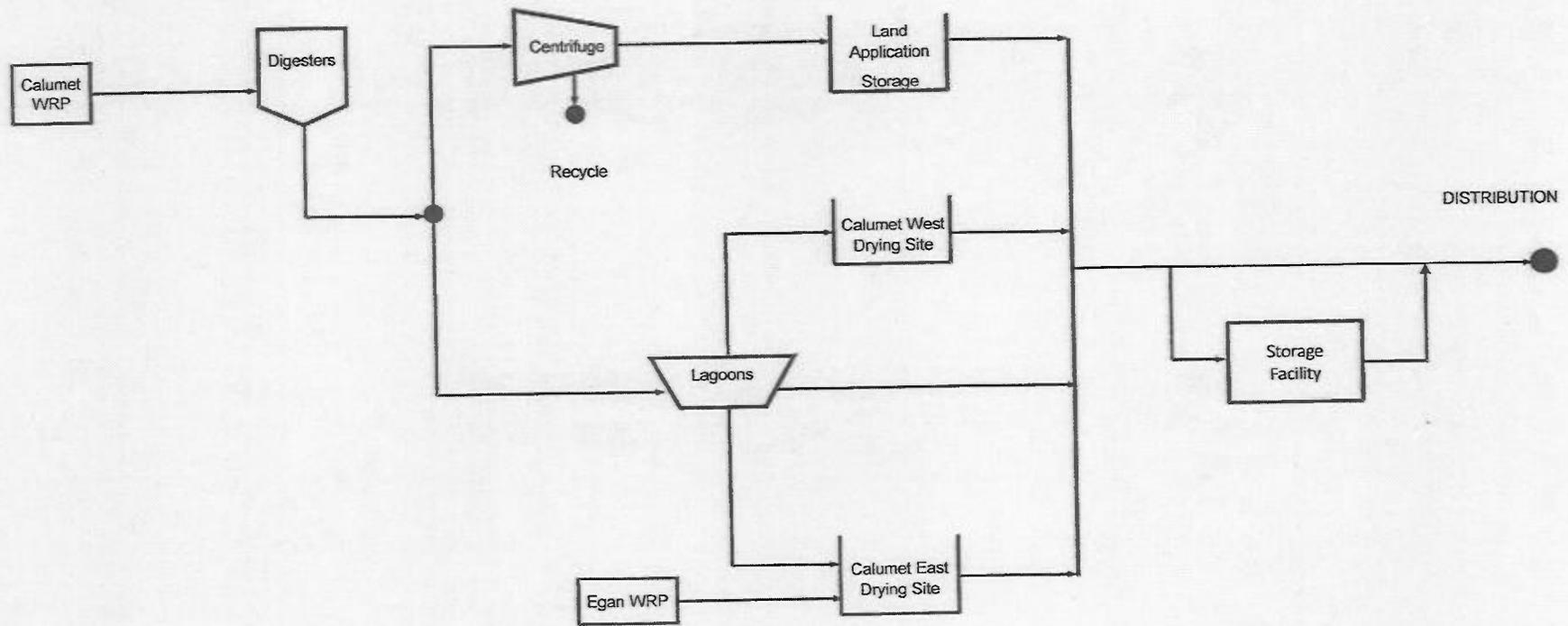


FIGURE 3: STICKNEY WATER RECLAMATION PLANT OPERATIONAL FLOW CHART FOR FIRST QUARTER 2017

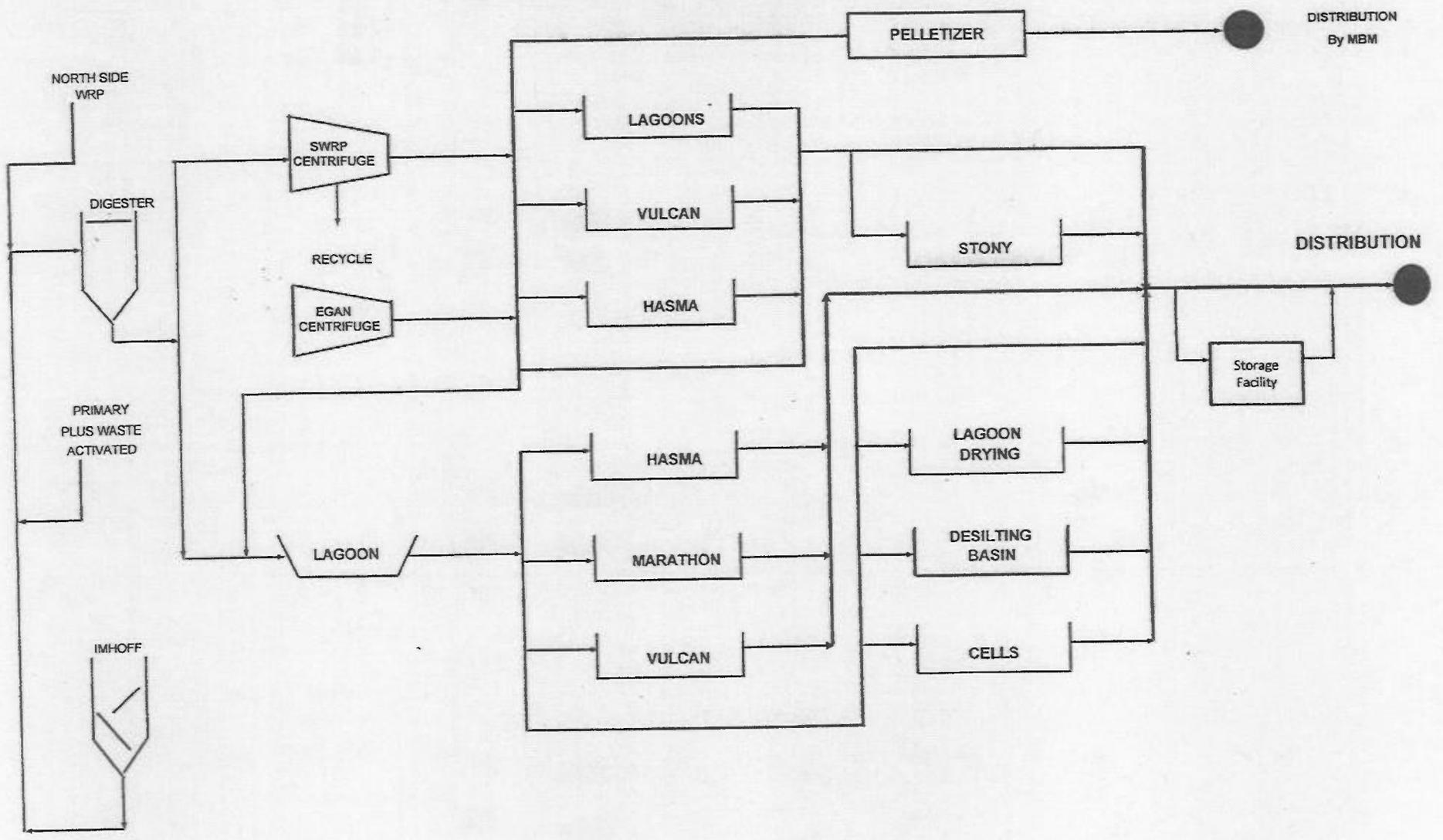


TABLE 1: USER INFORMATION FOR THE STICKNEY WATER RECLAMATION PLANT'S COMPOSTED BIOSOLIDS DISTRIBUTED UNDER THE CONTROLLED SOLIDS DISTRIBUTION PROGRAM DURING THE FIRST QUARTER OF 2017

Site No.	Name and Address of User	Dates	Quantity, Dry Ton		Purpose	Application	
			First Quarter	Cumulative		Area (acre)	Rate (ton/acre)
1	Metropolitan Water Reclamation District of Greater Chicago O'Brien WRP 3500 Howard St. Skokie, IL 60076	2/03	7.7	7.7	Compost as soil amendment for trees	NA ¹	NA
2	Metropolitan Water Reclamation District of Greater Chicago Stickney WRP 6001 W. Pershing Rd. Cicero, IL 60804	2/17	5.9	5.9	Compost as soil amendment for trees	NA	NA

¹Not applicable

TABLE 2: ANALYSIS OF COMPOSTED BIOSOLIDS APPLIED TO SOILS FROM THE STICKNEY WATER RECLAMATION PLANT'S SOLIDS DRYING AREAS DURING THE FIRST QUARTER OF 2017

Sampling Date	Feb. 3	
Site No. ¹	1, 2	
Constituent	Unit	
pH		6.7
Total Solids	%	45.5
Total Volatile Solids	"	47.5
Volatile Acids as Acetic Acid	mg/kg	37
Total Kjeldahl Nitrogen	"	15,637
NH ₃ -N	"	33
Total P	"	10,148
As	"	<5
Cd	"	2
Cr	"	51
Cu	"	190
Hg	"	0.3
K	"	3,965
Mn	"	338
Mo	"	2
Ni	"	21
Pb	"	66
Se	"	<5
Zn	"	380

¹Batches of composted biosolids applied to sites are listed in Table 1.