

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 08-20

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

DECEMBER 2007

APRIL 2008

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Louis Kollias, P.E., BCEE
Director of Research and Development

April 9, 2008

312-751-5190

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 IEPA Permit No. 2005-SC-3793, December 2007

This letter transmits information and data for the Metropolitan Water Reclamation District of Greater Chicago - Controlled Solids Distribution Program for December 2007, as required by Illinois Environmental Protection Agency Permit No. 2005-SC-3793.

Flow schematic diagrams for solids processed during December 2007 are shown in Figure 1 - John E. Egan Water Reclamation Plant (WRP), Figure 2 - Calumet WRP, and Figure 3 - Stickney WRP.

Biosolids were distributed to only one site in December. The user information report for Calumet WRP, Calumet, Illinois, is presented in Table 1, and the analysis of composited biosolids delivered to that site is presented in Table 2.

Very truly yours,

Louis Kollias
Director
Research and Development

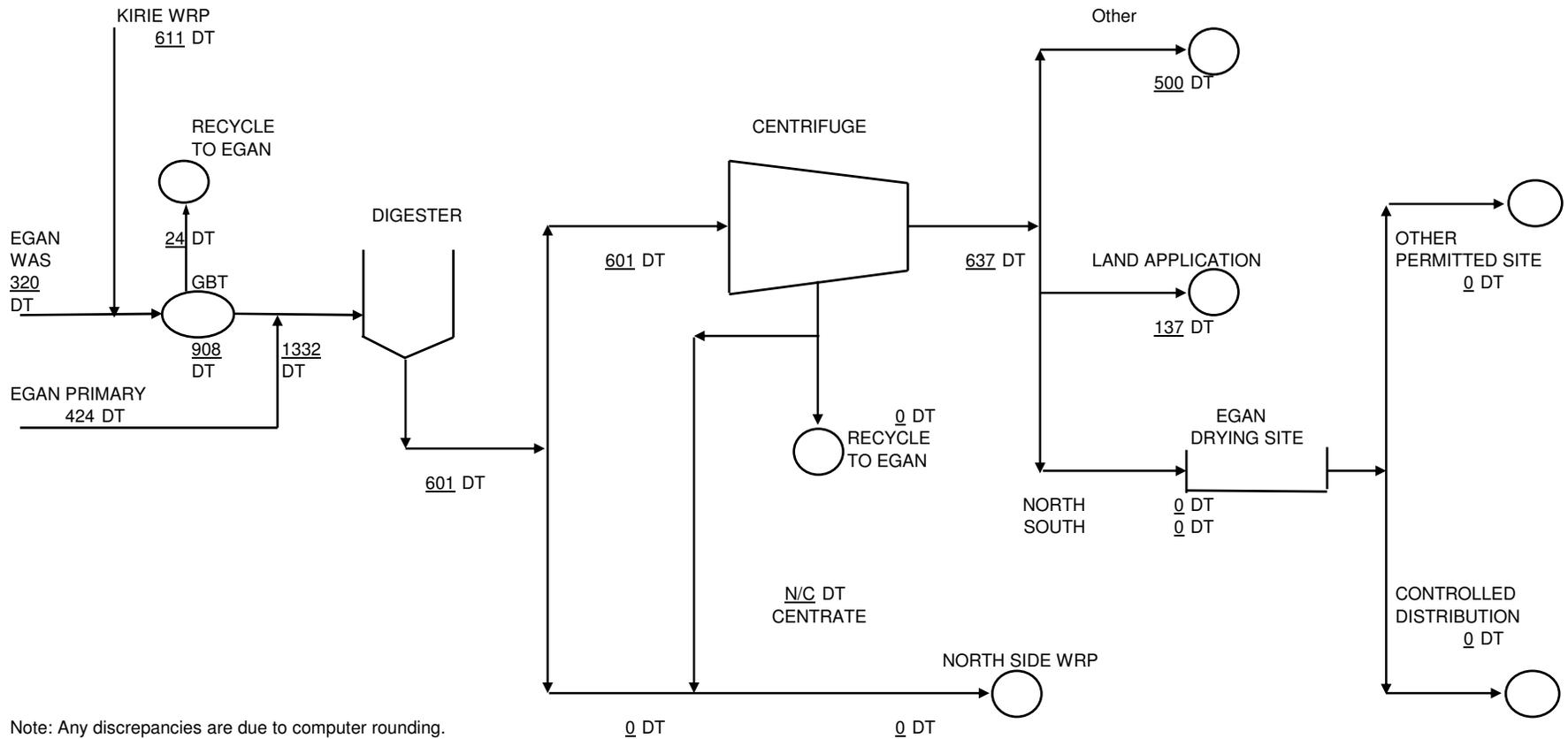
LK:KK:kq

Attachments

cc w/att.: Aistars (USEPA)
Sulski (IEPA)
Sobanski
Granato/O'Connor/Cox
cc wo/att: Garelli/Conway
Sharma /Carmody
Frost/Ko/Collins

J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

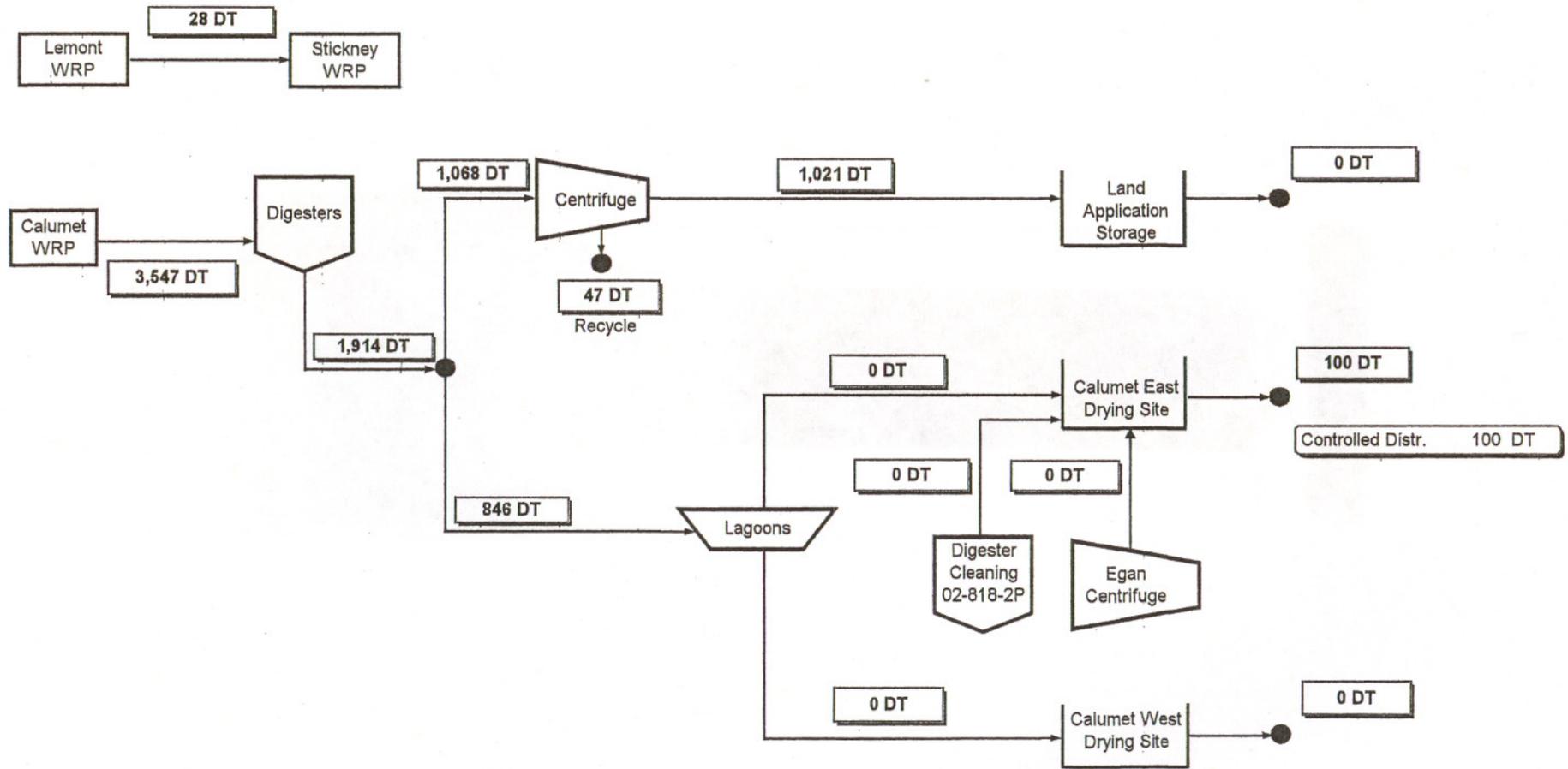
December-07



Note: Any discrepancies are due to computer rounding.
Centrifuge draw DT exceeds Centrifuge feed DT by 36 DT because of sample anomalies. Centrate DT are estimated to be approximately 28 DT.

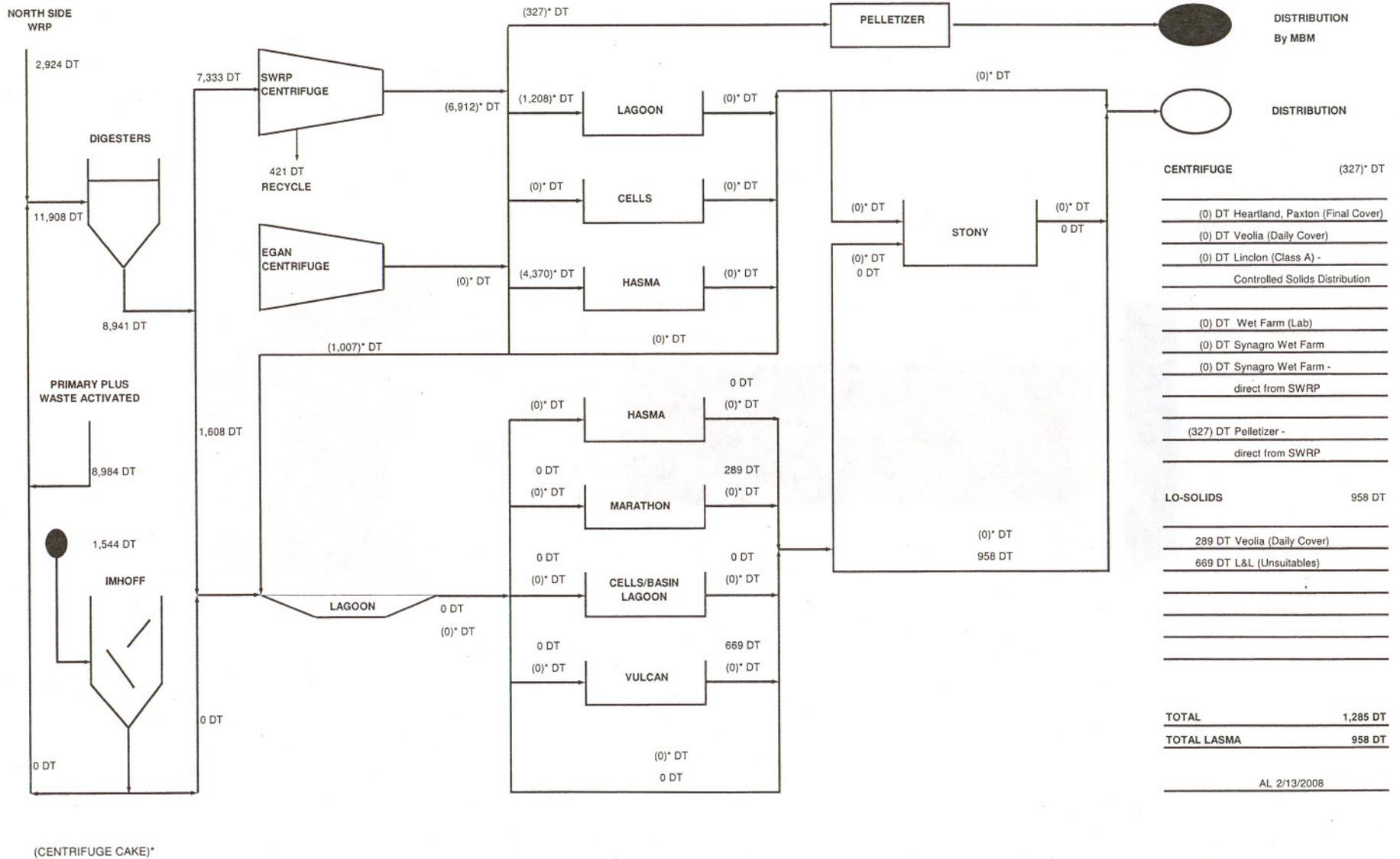
CALUMET WRP SOLIDS DISTRIBUTION - December 2007

Figure 2



STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR DECEMBER 2007

Figure 3



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 1

CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	Metropolitan Water Reclamation District of Greater Chicago
2. Address of User:	400 E. 130 th St. Chicago, IL 60628
3. Type of Solids and Source:	Agitation dried lagooned anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying areas.
4. Quantity Received (December 2007):	99.51 dry tons
Cumulative Quantity Received in 2007:	99.51 dry tons
5. Date Biosolids Received:	December 10, 2007
6. Use of Biosolids at Site:	Used to cap-off the excavation site at Calumet WRP.
7. Size of Application Area:	0.03 acre
8. Application Rate:	3,317 dry tons/acre

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER
CHICAGO

TABLE 2

ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE
CALUMET WRP EXCAVATION SITE, 130TH ST., CHICAGO, IL
FROM THE CALUMET EAST DRYING AREA
DURING DECEMBER 2007

Constituent	Units	Concentration
pH		7.3
Total Solids	%	60.7
Total Volatile Solids	"	28.2
Volatile Acids as Acetic Acid	mg/dry kg	71
Total Kjeldahl-N	"	15,318
NH ₃ -N	"	1,067
Total P	"	21,832
K	"	3978
Cd	"	4.9
Cr	"	92
Cu	"	329
Pb	"	101
Hg	"	1.20
Mo	"	11.3
As	"	9.1
Mn	"	901
Ni	"	36.5
Se	"	1.0
Zn	"	827

*Results based on one sample.