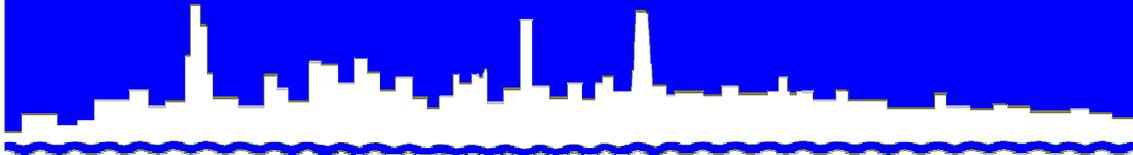


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 10-51

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

JULY 2010

OCTOBER 2010

Protecting Our Water Environment

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Louis Kollias, P.E., BCEE

Director of Monitoring and Research
louis.kollias@mwr.org

October 22, 2010

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. 2010-
SC-0200, July 2010

This letter transmits information and data for the Metropolitan Water Reclamation District of
Greater Chicago - Controlled Solids Distribution Program for July 2010, as required by Illinois Envi-
ronmental Protection Agency Permit No. 2010-SC-0200.

Sludge flow schematic diagrams for solids processed during July 2010 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 thirteen sites in July. The User information report for those site
is presented in Table 1, and the analyses of the composited biosolids delivered to those sites are pre-
sented in Table 2.

Very truly yours,

Louis Kollias
Director
Monitoring and Research

LK:OO:kq
Attachments
cc: Aistars (USEPA)
Sulski (IEPA)
Kits
O'Connor

TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION REPORT
FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

| Name and Address of User | WRP ¹ | Dates | Quantity (dry tons) | | Biosolids Use | Application | | Location No. |
|--|------------------|--------|---------------------|-----------------|--|--------------|------------------|--------------|
| | | | 2010 July | 2010 Cumulative | | Area (acres) | Rate (tons/acre) | |
| Heritage Park 555 Cook St. Manteno, Illinois 60950 | Stickney | 2, 6 | 174.7 | 174.7 | Incorporation with top soil for turf growth. | 2.5 | 69.9 | 1 |
| Oak Lawn Community HS 9400 Southwest Highway Oak Lawn, IL 60453 | Stickney | 2 | 28.5 | 28.5 | Topdressing as fertilizer for turf growth. | 1.5 | 19.0 | 2 |
| Channahon Park District 24856 W. Eames St. Channahon, IL 60410 | Stickney | 6 | 108.7 | 108.7 | Topdressing as fertilizer for turf growth. | 5.0 | 21.7 | 3 |
| Bloomington Park District 172 S. Circle Ave. Bloomington, IL 60108 | Stickney | 6 | 41.9 | 41.9 | Topdressing as fertilizer for turf growth. | 2.0 | 21.0 | 4 |
| Crossroads Comm. Church 1701 Quincy, Suite 21 Naperville, IL 60546 | Stickney | 15 | 30.2 | 30.2 | Topdressing as fertilizer for turf growth. | 2.0 | 15.1 | 5 |
| Plainfield East HS 12001 S. Naperville Rd. Plainfield, IL 60585 | Stickney | 19 | 43.7 | 43.7 | Topdressing as fertilizer for turf growth. | 1.5 | 29.1 | 6 |
| Plainfield Central HS 24120 Fort Beggs Dr. Plainfield, IL 60544 | Stickney | 19 | 43.6 | 43.6 | Topdressing as fertilizer for turf growth. | 1.5 | 29.1 | 7 |
| Plainfield South HS 7800 W. Carton Farm Rd. Plainfield, IL 60586 | Stickney | 19, 20 | 40.4 | 40.4 | Topdressing as fertilizer for turf growth. | 1.5 | 27.0 | 8 |

TABLE 1 (Continued): CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION REPORT
FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

| Name and Address of User | WRP | Dates | Quantity (dry tons) | | Biosolids Use | Application | | Location No. |
|---|----------|-------------------|---------------------|--------------------|---|-----------------|---------------------|--------------|
| | | | 2010 July | 2010 Cumulative | | Area (acres) | Rate (tons/acre) | |
| Plainfield North HS 12005 S. 248th St. Plainfield, IL 60585 | Stickney | 19 | 44.4 | 44.4 | Topdressing as fertilizer for turf growth. | 1.5 | 29.6 | 9 |
| Glenbrook North HS 2300 Shermer Rd. Northbrook, IL 60062 | Stickney | 19, 20, 22, 29 | 126.4 | 126.4 | Incorporation with top soil for turf growth. | 2 | 63.2 | 10 |
| Longwood Country Club 3503 E. Steger Rd. Crete, IL 60417 | Calumet | 7 | 46.5 | 46.5 | Topdressing as fertilizer for turf growth. | 3.0 | 11.0 | 11 |
| Calumet WRP MWRD 400E. 130 th St. Chicago, IL | Calumet | 13 | 112.9 | 112.9 | Incorporation with top soil for turf growth. | 2 | 56.4 | 12 |
| Mount Olive Cemetery 3800 N. Narrgansett Ave. Chicago, IL | Calumet | 19 | 30.8 | 30.8 | Nutrient sources to establish turf on graves. | 0.12 | 78.7 | 13 |

¹WRP – Water Reclamation Plant.

TABLE 2: ANALYSIS OF DIGESTED BIOSOLIDS APPLIED TO LAND DURING JULY 2010

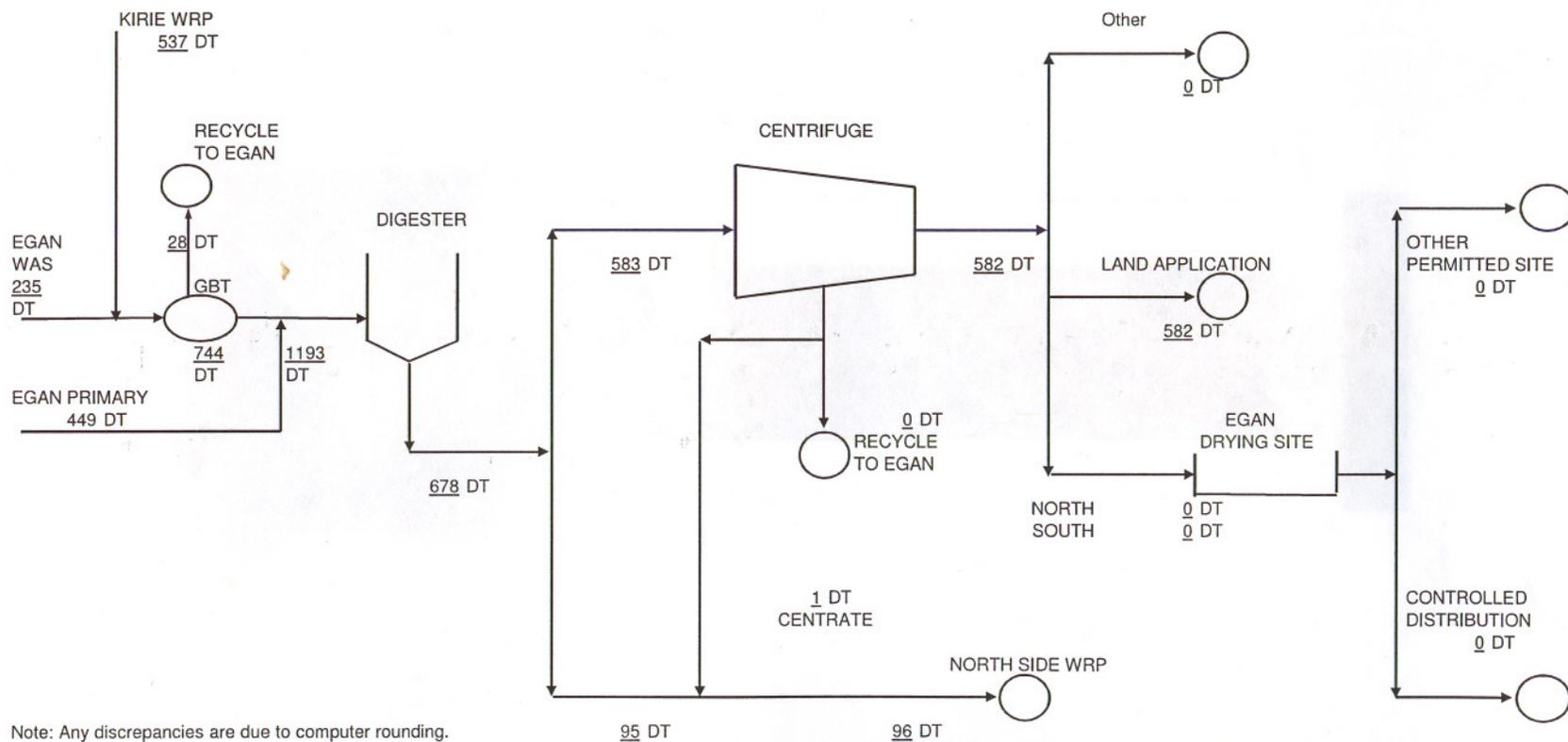
| User's Location No. ¹ | Stickney Water Reclamation Plant | | | | Calumet Water Reclamation Plant | | |
|----------------------------------|----------------------------------|---------------|--------|----------------|---------------------------------|--------|--------|
| | 1, 2 | 1, 3, 4 | 5 | 6, 7, 8, 9, 10 | 11 | 12 | |
| Constituent | Units | Concentration | | | | | |
| pH | | 6.4 | 6.0 | 6.3 | 6.7 | 6.8 | 7.6 |
| Total Solids | % | 70.5 | 77.7 | 70.2 | 62.9 | 74.7 | 74.0 |
| Total Volatile Solids | " | 33.2 | 33.4 | 40.8 | 40.8 | 39.1 | 37.9 |
| Volatile Acids as Acetic Acid | mg/dry kg | 71 | 179 | NA | 383 | 233 | 747 |
| Total Kjeldahl-N | " | 17,043 | 17,743 | 22,206 | 18,297 | 18,936 | 17,184 |
| NH ₃ -N | " | 184 | 238 | 1,399 | 2,134 | 229 | 1,411 |
| Total P | " | 26,264 | 21,218 | 25,230 | 19,802 | 15,159 | 22,320 |
| As | " | <10.0 | <10.0 | 11.0 | 11.0 | 11.9 | 8.8 |
| Cd | " | 3.8 | 4.1 | 3.6 | 3.5 | 4.6 | 4.1 |
| Cr | " | 158 | 165 | 150 | 151 | 99 | 98 |
| Cu | " | 446 | 456 | 469 | 451 | 489 | 490 |
| Hg | " | 1.5 | 1.2 | 1.2 | 0.8 | 1.0 | 1.3 |
| K | " | 1,855 | 2,126 | 2,067 | 2,277 | 2,634 | 1,731 |
| Mn | " | 503 | 513 | 500 | 497 | 1,053 | 1,060 |
| Mo | " | 9.9 | 10.4 | 10.3 | 10.7 | 15.9 | 15.3 |
| Ni | " | 40.0 | 43.3 | 38.9 | 38.6 | 44.2 | 43.9 |
| Pb | " | 139 | 135 | 128 | 133 | 124 | 123 |
| Se | " | <4.0 | <4.0 | <4.0 | <4.0 | 5 | 3.3 |
| Zn | " | 983 | 984 | 985 | 986 | 987 | 988 |

¹ Locations listed in Table 1.

NA = No analysis.

J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

July-10



Note: Any discrepancies are due to computer rounding.

CALUMET WRP SOLIDS DISTRIBUTION - July 2010

Figure 2

