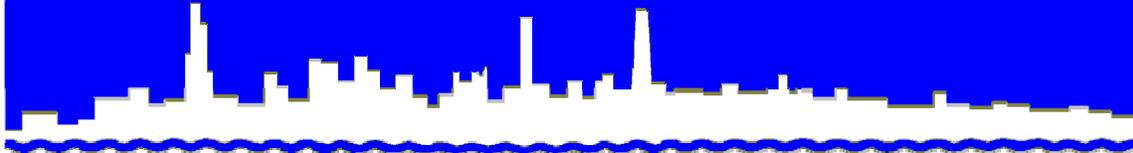


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***RESEARCH AND DEVELOPMENT  
DEPARTMENT***

*REPORT NO. 07-51*

*MONTHLY CONTROLLED SOLIDS*

*DISTRIBUTION REPORT*

*JUNE 2007*

*AUGUST 2007*

**Metropolitan Water Reclamation District of Greater Chicago**

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312-751-5600

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

312-751-5190

August 20, 2007

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, June 2007

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

Sludge flow schematic diagrams for solids processed during June 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 five sites in June. The user information report for the Luther Burbank Elementary School, 2035 N. Mobile Avenue, Chicago is presented in Table 1, and the analysis of composite biosolids delivered in June to that site presented in Table 2.

The user information report for the Summit Park District, 5700 S. Archer Avenue, Summit is presented in Table 3, and the analysis of composite biosolids delivered in June to that site is presented in Table 4.

The user information report for the Andrew High School, 9000 W. 171st Street, Tinley Park is presented in Table 5, and the analysis of composite biosolids delivered in June to that site is presented in Table 6.

The user information report for the Coyote Run Golf Course, 720 S. Kedzie Avenue, Flossmoor is presented in Table 7, and the analysis of composite biosolids delivered in June to that site is presented in Table 8.

Mr. S. Alan Keller

2

August 20, 2007

Subject: Metropolitan Water Reclamation District of Greater Chicago – Controlled  
Solids Distribution Program IEPA Permit No. 2005-SC-3793, June 2007

The user information report for the Southwest Chicago Christian School, 12001 S. Oak Park Avenue, Palos Heights is presented in Table 9, and the analysis of composite biosolids delivered in June to that site is presented in Table 10.

Very truly yours,

Louis Kollias  
Director  
Research and Development

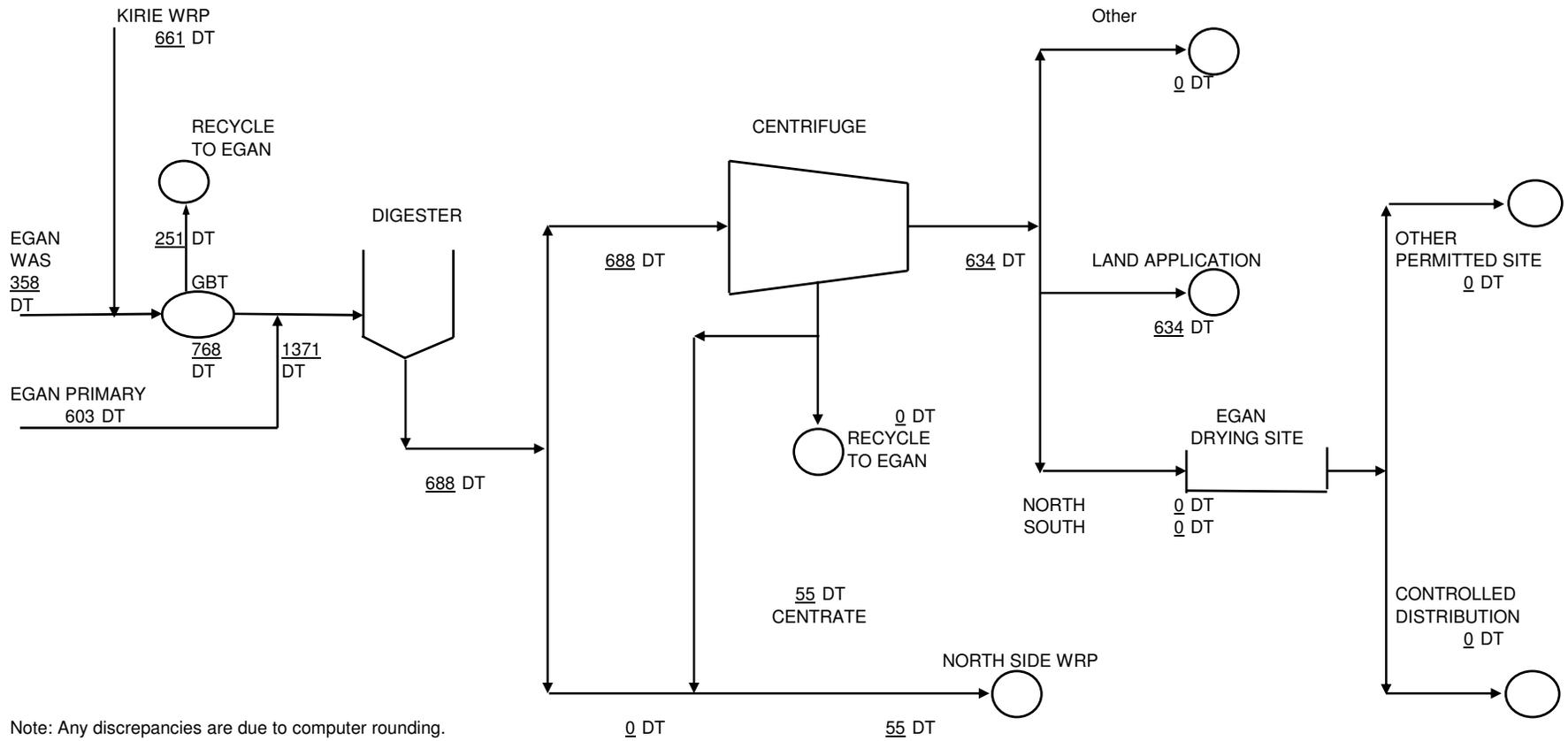
LK:KK:spy

Attachments

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

# J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

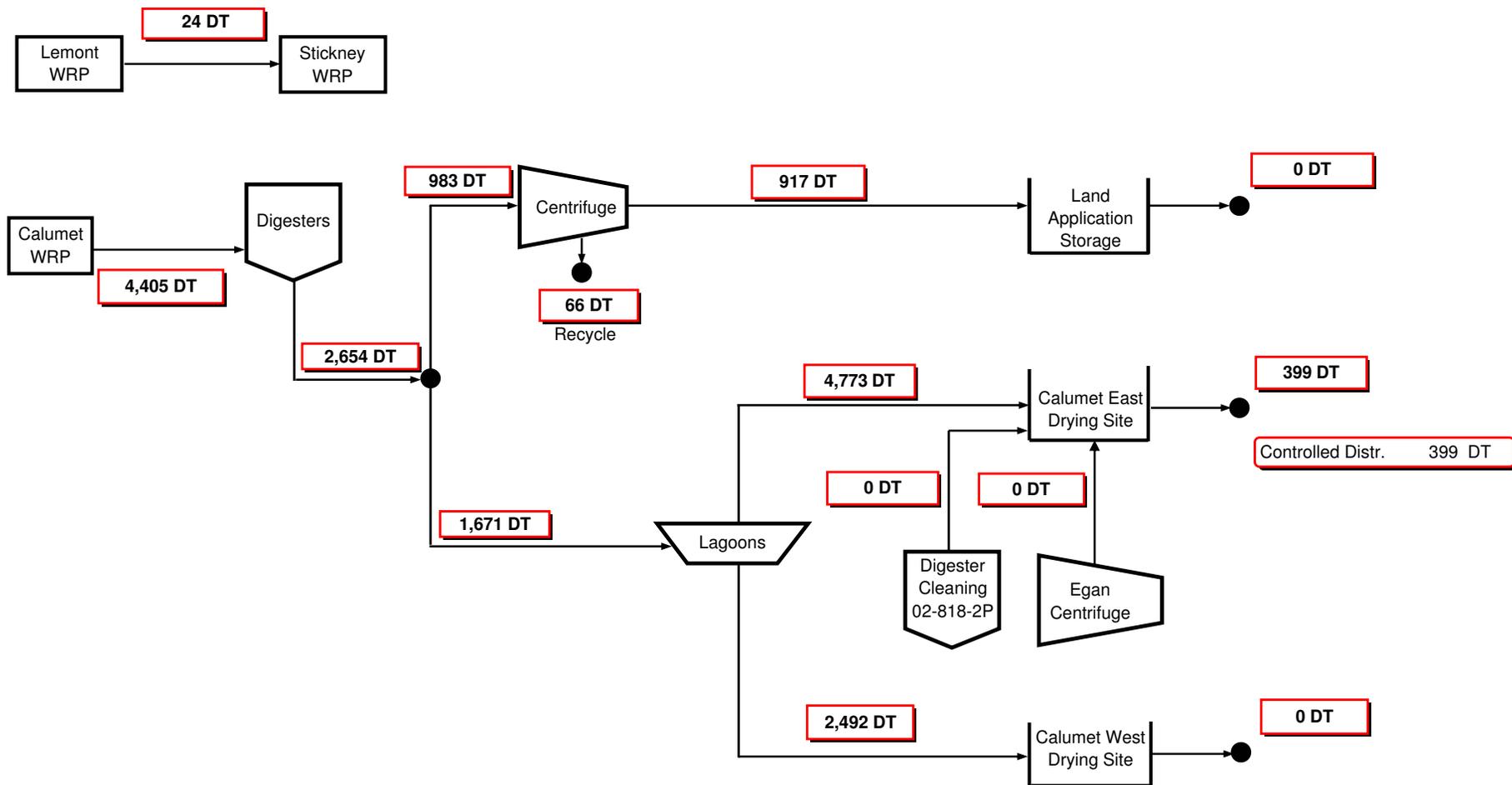
June-07



Note: Any discrepancies are due to computer rounding.

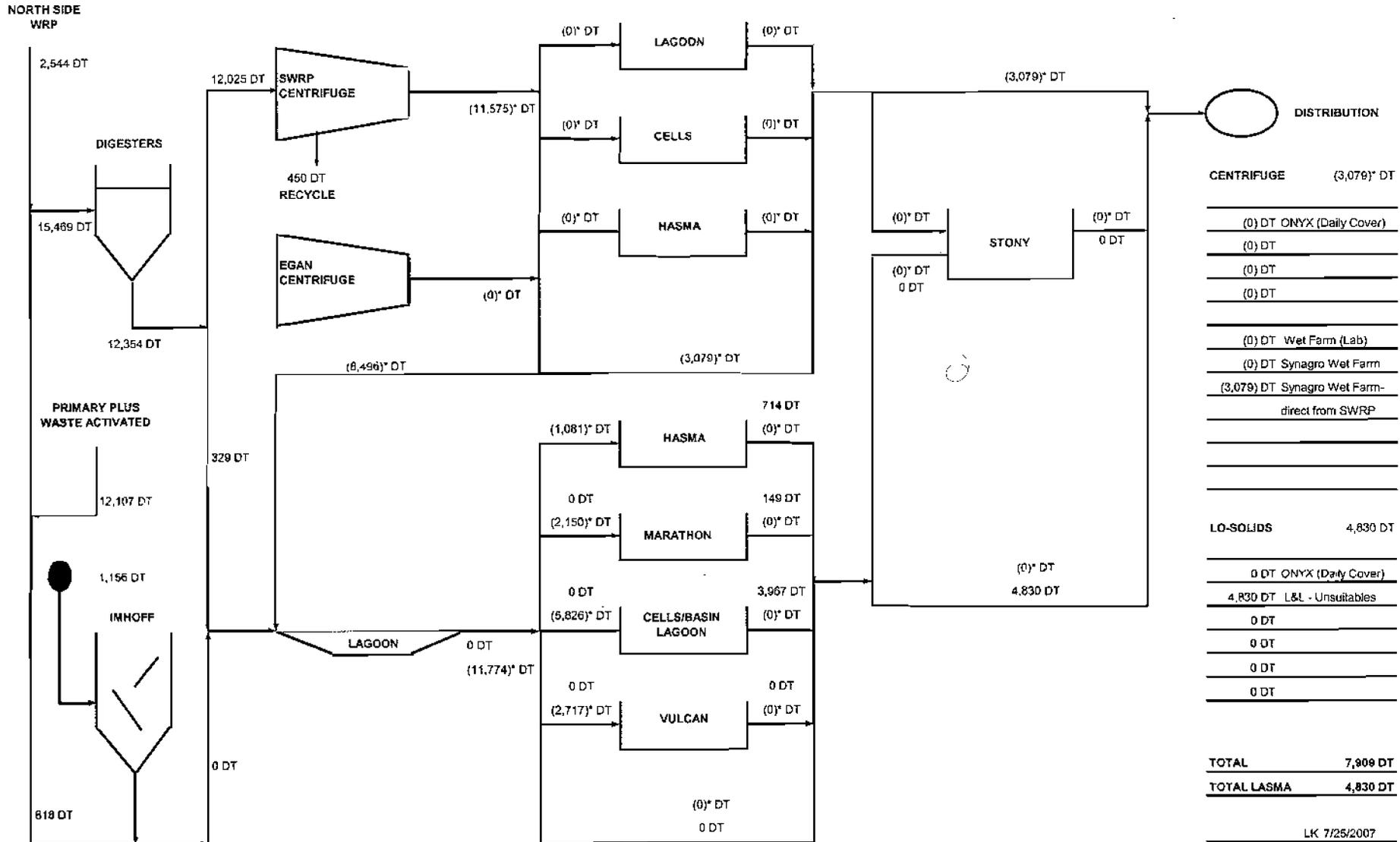
# CALUMET WRP SOLIDS DISTRIBUTION - June 2007

Figure 2



# STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR JUNE 2007

Figure 3



(CENTRIFUGE CAKE)\*

TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

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1. Name of User:	Luther Burbank Elementary School
2. Address of User:	2035 N. Mobile Ave. Chicago, IL 60639
3. Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4. Quantity Received (June 2007) :	101.74 dry tons
Cumulative Quantity Received in 2007 :	101.74 dry tons
5. Date Biosolids Received:	June 1, 4, and 13, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for seeding turf on soccer fields
7. Size of Application Area:	3.01 acres
8. Application Rate:	33.8 dry tons/acre

---

TABLE 2: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE  
LUTHER BURBANK ELEMENTARY SCHOOL SOCCER FIELDS  
AT 2035 NORTH MOBILE AVENUE, CHICAGO, IL  
FROM THE CALUMET EAST DRYING AREA  
DURING JUNE 2007

Constituent	Unit	Concentration
pH		6.5
Total Solids	%	69.7
Total Volatile Solids	"	31.8
Volatile Acids as Acetic Acid	mg/dry kg	70
Total Kjeldahl-N	"	13,337
NH <sub>3</sub> -N	"	206
Total P	"	16,983
K	"	4,811
Cd	"	8.7
Cr	"	127
Cu	"	292
Pb	"	106
Hg	"	1.18
Mo	"	8.9
As	"	6.9
Mn	"	685
Ni	"	35.0
Se	"	5.5
Zn	"	911

\*Results based on two samples.

TABLE 3: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

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1. Name of User:	Summit Park District
2. Address of User:	5700 S. Archer Avenue Summit, IL 60501
3. Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4. Quantity Received (June 2007):	157.62 dry tons
Cumulative Quantity Received in 2007:	157.62 dry tons
5. Date Biosolids Received:	June 6 and 13, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing turf growth on athletic fields
7. Size of Application Area:	14 acres
8. Application Rate:	12.26 dry tons/acre

---

TABLE 4: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE  
SUMMIT PARK DISTRICT ATHLETIC FIELDS, 5700 S. ARCHER AVE., SUMMIT, IL  
FROM THE CALUMET EAST DRYING AREA  
DURING JUNE 2007

Constituent	Units	Concentration
pH		6.8
Total Solids	%	71.7
Total Volatile Solids	"	27.2
Volatile Acids as Acetic Acid	mg/dry kg	64
Total Kjeldahl-N	"	13,917
NH <sub>3</sub> -N	"	292
Total P	"	15,412
K	"	4,710
Cd	"	7.2
Cr	"	114
Cu	"	369
Pb	"	105
Hg	"	0.55
Mo	"	12.1
As	"	6.2
Mn	"	893
Ni	"	36.5
Se	"	7
Zn	"	908

\*Results based on two samples.

TABLE 5: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

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1.	Name of User:	Andrew High School
2.	Address of User:	9000 W. 171st Street Tinley Park, IL 60477
3.	Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4.	Quantity Received (June 2007):	34.01 dry tons
	Cumulative Quantity Received in 2007:	34.01 dry tons
5.	Date Biosolids Received:	June 20, 2007
6.	Use of Biosolids at Site:	Used as soil conditioner and nutrient source for turf renovation on soccer fields
7.	Size of Application Area:	4 acres
8.	Application Rate:	8.5 dry tons/acre

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TABLE 6: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE ANDREW HIGH SCHOOL SOCCER FIELDS, 9000 W. 171st ST., TINLEY PARK, IL DURING JUNE 2007

Constituent	Units	Concentration
pH		6.7
Total Solids	%	76.4
Total Volatile Solids	"	34.1
Volatile Acids as Acetic Acid	mg/dry kg	149
Total Kjeldahl-N	"	13,945
NH <sub>3</sub> -N	"	682
Total P	"	15,613
K	"	5,439
Cd	"	9.3
Cr	"	145
Cu	"	363
Pb	"	116
Hg	"	1.00
Mo	"	11.4
As	"	11.2
Mn	"	783
Ni	"	39.6
Se	"	16.8
Zn	"	1,046

\*Results based on one sample.

TABLE 7: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

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1.	Name of User:	Coyote Run Golf Course
2.	Address of User:	720 S. Kedzie Avenue Flossmoor, IL 60422
3.	Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4.	Quantity Received (June 2007):	74.46 dry tons
	Cumulative Quantity Received in 2007:	137.09 dry tons
5.	Date Biosolids Received:	June 18, 2007
6.	Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing turf growth on golf course roughs
7.	Size of Application Area:	6 acres
8.	Application Rate:	12.41 dry tons/acre

---

TABLE 8: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE  
 COYOTE RUN GOLF COURSE AT 720 SOUTH KEDZIE AVENUE,  
 FLOSSMOOR, IL FROM THE CALUMET EAST DRYING AREA  
 DURING JUNE 2007

Constituent	Units	Concentration
pH		6.5
Total Solids	%	78.9
Total Volatile Solids	"	34.2
Volatile Acids as Acetic Acid	mg/dry kg	125
Total Kjeldahl-N	"	13,059
NH <sub>3</sub> -N	"	582
Total P	"	14,864
K	"	4,827
Cd	"	8.8
Cr	"	138
Cu	"	386
Pb	"	117
Hg	"	0.88
Mo	"	11.7
As	"	11.0
Mn	"	771
Ni	"	38.6
Se	"	10.4
Zn	"	1,073

\*Results based on one sample.

TABLE 9: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1.	Name of User:	Southwest Chicago Christian School
2.	Address of User:	12001 S. Oak Park Avenue Palos Heights, IL 60463
3.	Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4.	Quantity Received (June 2007):	31.6 dry tons
	Cumulative Quantity Received in 2007:	31.6 dry tons
5.	Date Biosolids Received:	June 26, 2007
6.	Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing turf growth on a football field
7.	Size of Application Area:	2 acres
8.	Application Rate:	15.8 dry tons/acre

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TABLE 10: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE  
 SOUTHWEST CHICAGO CHRISTIAN HIGH SCHOOL FOOTBALL FIELD  
 AT 12001 SOUTH OAK PARK AVENUE , PALOS HEIGHTS, IL  
 FROM THE CALUMET EAST DRYING AREA  
 DURING JUNE 2007

Constituent	Units	Concentration
pH		6.9
Total Solids	%	74.4
Total Volatile Solids	"	32.6
Volatile Acids as Acetic Acid	mg/dry kg	121
Total Kjeldahl-N	"	7,482
NH <sub>3</sub> -N	"	544
Total P	"	12,927
K	"	6,647
Cd	"	9.3
Cr	"	147
Cu	"	354
Pb	"	122
Hg	"	0.91
Mo	"	12
As	"	13.3
Mn	"	732
Ni	"	40.3
Se	"	16.4
Zn	"	1,035

\*Results based on one sample.