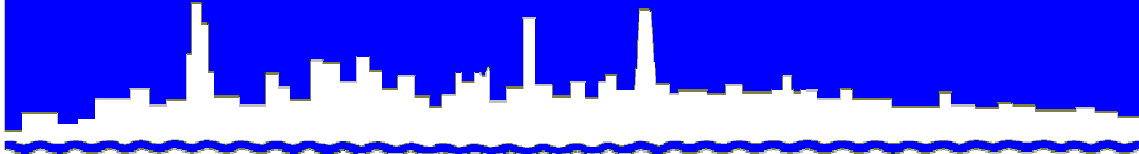


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 09-73

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

AUGUST 2009

DECEMBER 2009

Protecting Our Water Environment

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Louis Kollias, P.E., BCEE

Director of Monitoring and Research
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December 10, 2009

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. 2005-SC-3793, August 2009

This letter transmits information and data for the Metropolitan Water Reclamation District of Greater Chicago - Controlled Solids Distribution Program for August 2009, as required by Illinois Environmental Protection Agency Permit No. 2005-SC-3793

Sludge flow schematic diagrams for solids processed during August 2009 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 August. The user information report for those sites are presented in Table 1, and the analyses of composited biosolids delivered to those sites are presented in Tables 2 - 6.

Very truly yours,

Louis Kollias
Director
Monitoring and Research

LK:KK:kq
Attachments
cc: Aistars (USEPA)
Sulski (IEPA)
Sobanski

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

No.	Name and Address of User	Source	Dates	Quantity (dry tons)		Biosolids Use	Application		Analysis
				2009 August	2009 Cumulative		Area (acres)	Rate (tons/acre)	
1.	Campton Hills Park St. Charles Park District 3615 Campton Hills Dr. St. Charles, IL 60175	Calumet WRP ¹ - East drying area	4, 5	196.6	196.6	Top dressing as fertilizer for turf growth on soccer fields	20.0	9.8	Table 2
2.	Blue Island Little League 127 th St. & Division Rd. Blue Island, IL 60406	Calumet WRP- West drying area	14	70.8	70.8	Top dressing as fertilizer for turf growth on baseball fields	4.0	17.7	Table 3
3.	Canterbury Fields Hoffman Estates Park District 1950 Maureen Rd. Hoffman Estates, IL 60169	Calumet WRP - West drying area	14, 25	130.3	273.4	Top dressing as fertilizer for turf growth on athletic fields	6.0	21.7	Table 4
4.	Wheatland Athletic Association 2323 Liberty St. Aurora, IL 60502	Calumet WRP - West drying area	24	51.9	51.9	As nutrients for grass of newly constructed ball fields	3.0	17.3	Table 5
5.	Research Plots at Calumet WRP 400 E. 130 th St. Calumet, IL 60628.	Calumet WRP - West drying area	31	14.5	14.5	Nutrient source for growing native prairie plants	0.5	28.9	Table 6

¹WRP – Water Reclamation Plant.

TABLE 2: ANALYSIS¹ OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
 CAMPTON HILLS PARK, 3615 CAMPTON HILLS DR., ST. CHARLES, IL,
 FROM THE CALUMET WATER RECLAMATION PLANT
 EAST DRYING AREA DURING AUGUST 2009

Constituent	Units	Concentration
pH		7.3
Total Solids	%	79.4
Total Volatile Solids	"	34.9
Volatile Acids as Acetic Acid	mg/dry kg	16
Total Kjeldahl-N	"	13,001
NH ₃ -N	"	901
Total P	"	16,403
K	"	3,055
Cd	"	4.3
Cr	"	141
Cu	"	476
Pb	"	129
Hg	"	1.5
Mo	"	15.3
As	"	9.0
Mn	"	1,136
Ni	"	67.1
Se	"	8.1
Zn	"	1,117

¹Results based on one sample.

TABLE 3: ANALYSIS¹ OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE BLUE ISLAND LITTLE LEAGUE BASEBALL FIELD LOCATED AT 127TH STREET AND DIVISION ROAD, BLUE ISLAND, IL, FROM THE CALUMET WATER RECLAMATION PLANT WEST DRYING AREA DURING AUGUST 2009

Constituent	Units	Concentration
pH		7.1
Total Solids	%	85.9
Total Volatile Solids	"	43.4
Volatile Acids as Acetic Acid	mg/dry kg	7
Total Kjeldahl-N	"	25,501
NH ₃ -N	"	2,454
Total P	"	23,679
K	"	3,873
Cd	"	3.7
Cr	"	107
Cu	"	432
Pb	"	109
Hg	"	1.2
Mo	"	15.2
As	"	10.1
Mn	"	951
Ni	"	47.6
Se	"	5.0
Zn	"	1,065

¹Results based on one sample.

TABLE 4: ANALYSIS¹ OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
 CANTERBURY FIELDS, 1950 MAUREEN RD., HOFFMAN ESTATES, IL,
 FROM THE CALUMET WATER RECLAMATION PLANT
 WEST DRYING AREA DURING AUGUST 2009

Constituent	Units	Concentration
pH		7.3
Total Solids	%	80.4
Total Volatile Solids	"	42.3
Volatile Acids as Acetic Acid	mg/dry kg	12
Total Kjeldahl-N	"	26,920
NH ₃ -N	"	2,740
Total P	"	25,465
K	"	3,537
Cd	"	3.7
Cr	"	107
Cu	"	444
Pb	"	110
Hg	"	1.1
Mo	"	14.7
As	"	9.6
Mn	"	959
Ni	"	49.7
Se	"	5.5
Zn	"	1,066

¹Results based on two samples.

TABLE 5: ANALYSIS¹ OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE WHEATLAND ATHLETIC ASSOCIATION, 2323 LIBERTY ST., AURORA, IL, FROM THE CALUMET WATER RECLAMATION PLANT WEST DRYING AREA DURING AUGUST 2009

Constituent	Units	Concentration
pH		7.6
Total Solids	%	74.9
Total Volatile Solids	"	41.1
Volatile Acids as Acetic Acid	mg/dry kg	17
Total Kjeldahl-N	"	28,340
NH ₃ -N	"	3,026
Total P	"	27,251
K	"	3,201
Cd	"	3.6
Cr	"	107
Cu	"	456
Pb	"	112
Hg	"	1.01
Mo	"	14.2
As	"	9.2
Mn	"	968
Ni	"	51.7
Se	"	6.0
Zn	"	1,067

¹Results based on one sample.

TABLE 6: ANALYSIS¹ OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE RESEARCH PLOTS LOCATED AT THE CALUMET WATER RECLAMATION PLANT, 400 E. 130th ST., CALUMET, IL FROM THE CALUMET WATER RECLAMATION PLANT WEST DRYING AREA DURING AUGUST 2009

Constituent	Units	Concentration
pH		6.9
Total Solids	%	78.1
Total Volatile Solids	"	45.3
Volatile Acids as Acetic Acid	mg/dry kg	8
Total Kjeldahl-N	"	26,626
NH ₃ -N	"	1,408
Total P	"	27,289
K	"	3,469
Cd	"	3.6
Cr	"	97
Cu	"	446
Pb	"	121
Hg	"	1.05
Mo	"	13.4
As	"	8.3
Mn	"	932
Ni	"	44.6
Se	"	6.8
Zn	"	1,004

¹Results based on one sample.