

Environmental Management System for Biosolids

Document 03.3 – James C. Kirie WRP CCP Table

Version Number: 13
 Version Date: March 8, 2018

Biosolids Value Chain	CCP	Operational Controls	Potential Environmental Impacts	Monitoring/Measuring/ Record Keeping	Primary Person Roles/Responsibilities
Wastewater Collection and Pretreatment	Residential Discharges	<ul style="list-style-type: none"> Public Outreach Household hazardous waste collection(HHW) 	<ul style="list-style-type: none"> Poor surface water quality Metals accumulation in biosolids 	<ul style="list-style-type: none"> # Educational outreach events HHW Event Summaries 	Section 072 Public and Intergovernmental Affairs Officer (X16626); Section 643 CE II (X15119)
	Industrial Discharges	<ul style="list-style-type: none"> Permits – DA Pretreatment Inspections SPCC Plans (Spill) TOMP Plans (Toxics) Sewage & Waste Control Ordinance Field Surveillance and Enforcement Action Regulated community outreach 	<ul style="list-style-type: none"> Pipe Corrosion Process upsets – poor quality surface water & biosolids Metals accumulation in biosolids Violation of NPDES Permit Fish Kills Explosions 	<ul style="list-style-type: none"> Random Sampling Inspections Continuous Sampling Interceptor Sampling IEPA Annual Pretreatment Report Notices of Noncompliance Cease and Desist Orders Semi-annual Continued Compliance Reports Discharge Authorizations # of outreach events 	Section 197 SES(X52402) Section 166 SCIV (X45670) Section 192 Supervising Environmental Specialist (X13050)
	Spills into Collection System	<ul style="list-style-type: none"> Sewage & Waste Control Ordinance Enforcement Regulated community outreach 		<ul style="list-style-type: none"> Incident Report # of outreach events 	Section 197 SES (X52402)



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Wastewater Treatment & Solids Generation	Preliminary Treatment Debris Removal Coarse Screening Fine Screening Grit Removal	<ul style="list-style-type: none"> Operate timers, differential level, or continuous mode Operations SOPs 	<ul style="list-style-type: none"> Equipment failure/ process overload Poor quality biosolids 	<ul style="list-style-type: none"> Volume (CY) of debris removed. Operator logs 	Section 783 ACOE (X52576)
	Secondary Treatment Aeration Tanks Final Settling Tanks	<ul style="list-style-type: none"> NPDES Permit No. IL0047741 DO, MLSS, SRT, RAS rate, WAS rate, Feed Rate Operations SOPs 	<ul style="list-style-type: none"> NPDES Permit Violation Poor quality effluent and biosolids Odor 	<ul style="list-style-type: none"> Operator logs Daily reports NPDES permit parameters Microscopic examination DO, SS, SVI, F/M, Blanket level, RAS, WAS, MLSS, BOD, NH3, pH, Ortho P, TP 	Section 783 TPO III (X52505) Section 166 SCIV (X45670) Section 122 Associate Environmental Research Scientist (X84069)
Solids Transport	WAS Pumping	<ul style="list-style-type: none"> Pressure Flow 	<ul style="list-style-type: none"> Spill 	<ul style="list-style-type: none"> Operator logs % Solids IEPA semi-annual solids report 	Section 783 ACOE (X52576)



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Revision History

Version Number	Version Date	Description of Revision
0	7/28/05	Original issue
1	9/19/05	Revised Operational Controls, Environmental Impacts, and Monitoring, Measuring and Recordkeeping Removed CCPs that do not play a role in biosolids management (Sewer Maintenance, Influent, Odor Control Management)
2	3/22/06	Added CCP Sludge Pipeline to Egan WRP.
3	4/12/07	Added "regulatory community outreach" to the Industrial Discharge and Spills into Collection System CCPs under the Operational Control column. Added "# of outreach events" to the Industrial Discharge and Spills into Collection System CCPs under the Monitoring/Measuring/Recordkeeping column. Added the following to the Industrial Discharge CCP under the Monitoring/Measuring/Recordkeeping column: IEPA Annual Pretreatment Report, Notices of Noncompliance, Cease and Desist Orders, Semi-annual Continued Compliance Reports, and Discharge Authorizations.
4	2/26/08	Replaced Public Information Coordinator with Manager of Public Affairs under the Primary Person Roles/Responsibilities column of the Residential Discharges CCP. Replaced Section 633 with Section 643 under the Primary Person Roles/Responsibilities column of the Residential Discharges CCP. Revised the Preliminary Treatment CCP to include screening and grit removal and included Operations SOPs under the Operation Controls Column. Changed the CCP Sludge Pipeline to Egan WRP to WAS Pumping.
5	3/11/09	Added Section 166 – SCIV (45670) to Industrial Discharges CCPs and Secondary Treatment Aeration Tanks Final Setting Tanks CCPs. Added Section 122 – Soil Scientist III (84063) to Secondary Treatment Aeration Tanks Final Setting Tanks CCPs.

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Version Number	Version Date	Description of Revision
6	8/24/09	Revised PCO III to PCO III / SES
7	3/10/10	Added "Section 192 SES (X13050)" to the Industrial Discharge CCP under the Primary Person Roles/Responsibilities column.
8	4/19/11	Added Associate Environmental Research Scientist (X84069) and removed Soil Scientist III (X84063) from Biosolids Value Chain – Wastewater Treatment & Solids Generation – Secondary Treatment Aeration Tanks Final Settling Tanks under Primary Person Roles/Responsibilities column.
9	10/17/11	Edited Footer with Official Document Location
10	03/05/13	Updated Responsible Person Title under Residential Discharges
11	5/19/14	Updated Responsible Person Title under Industrial Discharges Sect. 192
12	01/22/16	Updated Parameters in Monitoring/Measuring and Record Keeping
13	3/8/18	Updated Public & Intergovernmental Affairs Officer's section # from 071 to section 072. Updated Public & Intergovernmental Affairs Officer's ext. # from X17909 to X16626. Updated Section 643 CE II Ext. # from X16571 to X15119.