

Environmental Management System for Biosolids

Document 04.5 Biosolids Products and Legal Requirements/Vehicles

Version Number: 3
 Version Date: October 13, 2011

PURPOSE

This document summarizes the biosolids products generated by MWRDGC facilities, their respective utilization options and associated legal requirements/vehicles.

| Stickney WRP | % | Metals | Pathogens | VAR | Usage | Legal Vehicle |
|--------------------------|----------|---------------|------------------|------------|-------------------|--------------------------------------------------------------------------------------------|
| Centrifuge Cake (Fresh) | 25 | Yes | B | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| LASMA | | | | | | |
| Centrifuge Cake (Fresh) | 25 | Yes | B | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| Aged Cake (PFRP) | 65 | Yes | A | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| | | | | | controlled solids | IEPA No. 2005-SC-3793; 40 CFR Part 503; IAC Part 391 |
| | | | | | daily cover | 40 CFR Parts 258.21, IAC Part 811.106 |
| | | | | | unsuitables | 40 CFR Parts 258.28, 261.21 – 261.24 & 761.50(a)(4); |
| Aged Lo-solids (PFRP) | 65 | Yes | A | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| | | | | | controlled solids | IEPA No. 2005-SC-3793; 40 CFR Part 503; IAC Part 391 |
| | | | | | daily cover | 40 CFR Parts 258.21; IAC Part 811.106 |
| | | | | | unsuitables | 40 CFR Parts 258.28, 261.21 – 261.24 & 761.50(a)(4); |
| AS 95-4/03-02 | 65 | Yes | * | * | final cover | 40 CFR Part 503; AS 95-4; IAC Part 811.204, 811.314(c)(3), 812.813(d), 817.303, 817.410(c) |
| Unaged Cake or Lo-solids | <60 | Yes | B | NA | daily cover | 40 CFR Parts 258.21, IAC Part 811.106 |
| | | | | | unsuitables | 40 CFR Parts 258.28, 261.21 – 261.24 & 761.50(a)(4); |
| Rocky Material | | | | | unsuitables | 40 CFR Parts 258.28, 261.21 – 261.24 & 761.50(a)(4); |
| Calumet WRP | | | | | | |
| Centrifuge Cake (Fresh) | 25 | Yes | B | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| Aged Cake (PFRP) | 65 | Yes | A | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| | | | | | controlled solids | IEPA No. 2005-SC-3793; 40 CFR Part 503; IAC Part 391 |
| | | | | | daily cover | 40 CFR Parts 258.21, IAC Part 811.106 |
| | | | | | unsuitables | 40 CFR Parts 258.28, 261.21 – 261.24 & 761.50(a)(4); |
| | | | | | Fulton County | IEPA No. 2005-SC-5073; 40 CFR Part 503; IAC Part 391 |

Environmental Management System for Biosolids

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|-------------------------|----|-----|---|---------|-------------------|--------------------------------------------------------------------------------------------|
| Aged Lo-solids (PFRP) | 65 | Yes | A | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| | | | | | controlled solids | IEPA No. 2005-SC-3793; 40 CFR Part 503; IAC Part 391 |
| | | | | | Fulton County | IEPA No. 2005-SC-5073; 40 CFR Part 503; IAC Part 391 |
| | | | | | daily cover | 40 CFR Parts 258.21, IAC Part 811.106 |
| | | | | | unsuitables | 40 CFR Parts 258.28, 261.21 – 261.24 & 761.50(a)(4); |
| AS 95-4/03-02 | 65 | Yes | * | * | final cover | 40 CFR Part 503; AS 95-4; IAC Part 811.204, 811.314(c)(3), 812.813(d). 817.303, 817.410(c) |
| Egan WRP | | | | | | |
| Centrifuge Cake (Fresh) | 25 | Yes | B | 9 or 10 | land application | IEPA No. 2004-SC-0701; 40 CFR Part 503; IAC Part 391 |
| Hanover Park WRP | | | | | | |
| Digester Sludge | 4 | Yes | B | 9 or 10 | Fischer Farm | IEPA No. 2007-SC-2951; 40 CFR Part 503; IAC Part 391 |

* Adjusted Standard Protocol

1. Anaerobic Digestion @ 35-55° C for a minimum of 15 days or longer with digestion times and temps managed so as to ensure that the District's anaerobically digested product is consistent with the USEPA's pathogen treatment requirements for a Class B sludge (40 CFR 503, Appendix B(A)(3))
2. Storage in lagoons for > 1-1/2 years after the final addition of sludge; and Air drying for 4 weeks minimum, or as necessary to achieve 60% solids.

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Revision History

| Version Number | Version Date | Description of Revision |
|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | 11/30/05 | Original issue |
| 1 | 3/26/07 | Revised IEPA Operating Permit no. for HPWRP Digester Sludge |
| 2 | 5/14/10 | Deleted "(2)**" from the VAR column for Calumet WRP Aged Cake PFRP and Aged Lo-solids PFRP. Replaced "**" with "Yes" in the Metals column for both LASMA AS 95-4/03-2 and Calumet WRP AS 95-4/03-2. Added 40 CFR Part 503 in the Legal Vehicle column for both LASMA AS 95-4/03-2 and Calumet WRP AS 95-4/03-2. Added the explanation for the *. |
| 3 | 10/13/11 | Edited Footer with Official Document Location |