

GENERAL PERMIT WMGM036
Processing Prior to Beneficial Use of Sewage Sludge Generated by
Municipal Sewage Collection and Treatment Systems or Treatment
Works and Stabilized Using Lime for Use as a Soil Conditioner or Soil
Amendment by Land Application on Mine Reclamation Sites.

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT
DIVISION OF MUNICIPAL AND RESIDUAL WASTE

ISSUED: AUGUST 31, 2016

Expires: AUGUST 31, 2026

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A. Authorization:

This general permit authorizes the blending or mixing of dewatered sewage sludge generated by municipal sewage collection and treatment systems or treatment works, and lime material to produce either an exceptional quality biosolid or a lime stabilized sewage sludge for beneficial use by using a portable processing unit. The blending or mixing authorized by this general permit is limited to occur on an active or abandoned mine site approved by the Department except as provided in Appendix A for exceptional quality biosolids. In addition to the operating conditions contained herein, the lime-stabilized sewage sludge or exceptional quality biosolids produced and the beneficial use authorized under this permit shall be as specified in either Appendix A or B of this general permit.

B. Determination of Applicability Requirements:

Persons or municipalities that propose to operate under the terms and conditions of this general permit after the date of permit issuance must obtain a "Determination of Applicability" from the appropriate Department Regional Office (see attached list). A completed Determination of Applicability (DOA) application, along with a DOA application fee in the amount identified on the application forms must be submitted to the appropriate Department Regional Office. Checks shall be made payable to the "Commonwealth of Pennsylvania". No activities shall commence unless authorized by the Department in writing.

At a minimum, the following information must be provided on forms available from the Department:

- a. Name and street address of applicant.
- b. A description of the dewatered sewage sludge proposed for acceptance, and the lime material(s) that will be used in the production of exceptional quality biosolids or lime-stabilized sewage sludge.
- c. Laboratory analyses of the following:
 - i. Dewatered sewage sludge proposed for acceptance, demonstrating the chemical concentration limit for each parameter listed in Table 1 of Operating Condition C (1) of this general permit is met.
 - ii. Exceptional quality biosolids, demonstrating the chemical concentration limit for each parameter listed in Table A1 of Operating Requirement A (2) of Appendix A of this general permit is met.
 - iii. Lime-stabilized sewage sludge, demonstrating the chemical concentration limit for each parameter listed in Table B1 of Operating Requirement B (2) of Appendix B of this general permit is met.
- d. An evaluation plan for inspecting, sampling, testing and monitoring the dewatered sewage sludge received, and exceptional quality biosolids or lime-stabilized sewage sludge produced at the processing site.
- e. Name and street address or location of processing site where the exceptional quality biosolids or lime-stabilized sewage sludge will be produced.

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- f. Name and location of each generator of the dewatered sewage sludge that will be received for beneficial use at the processing site.
- g. A description of the processing method used to produce the exceptional quality biosolids or lime-stabilized sewage sludge, including the capacity of the proposed equipment, and provisions for dust control, run-on, run-off, and leachate management, if generated.
- h. Number and title of this general permit.
- i. Signed and notarized statement by the person operating the processing site which states that the person accepts all conditions of this general permit.
- j. Proof that notice or copies of the application have been submitted to each municipality, county, county planning agency and county health department in which processing activities are or will be located.
- k. Proof that the applicant has legal right to enter the land and operate the facilities approved under this permit.
- l. An irrevocable written consent from the landowner giving the Department permission to enter upon land where the applicant will be conducting processing activities.
- m. Information which identifies the applicant (i.e. individual, corporation, partnership, government agency, association, etc.), including the names and addresses of every officer which has a beneficial interest in or otherwise controls the operation of the company.
- n. A list of all previous permits or licenses issued by the Department or Federal government under the environmental protection acts; the dates issued, status and compliance history concerning environmental protection acts.
- o. A copy of the processing site's Preparedness, Prevention and Contingency Plan (PPC) which is consistent with the Department's most recent guidelines on the development and implementation of PPC plans.
- p. Proof that independent contractors retained by the permittee to perform any activities authorized under this permit are in compliance with the Department's regulations as required in Operating Condition C (17) of this general permit.
- q. Total amount of the dewatered sewage sludge and lime material that will be received, processed and stored, and exceptional quality biosolids or lime-stabilized sewage sludge that will be produced and stored.
- r. Unless otherwise approved, a copy of the Storm Water Management Control Plan to address on-site runoff and leachate management at the facility must be submitted to the Department for its approval.
- s. If requested, a map clearly showing the location of any processing site to be operated by the applicant under this general permit, including the following:
 - 1. Boundaries and names of present owner(s) of record of land (surface and sub-surface), including easements, right-of-way, and other property interests for the proposed permit area and adjacent properties.

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2. Boundaries of land within the proposed permit area; description of title, deed, or usage restrictions.
 3. Public and private water supplies within ½ mile radius of facility.
 4. Location of access roads (include slopes, grades, dimensions) and gates in relation to public and private roads, wells, and property lines.
 5. Location of the staging, processing and storage areas including description of proposed working surface for the staging, processing and storage areas.
 6. Within 300 feet of the facility: right-of-way for high-tension power lines, pipelines, railroads, public and private roads, buildings (school, dwelling, etc.) currently in use.
 7. The 100-year flood plain.
 8. All utilities installed at the facility (electrical, gas, water, sewer, telephone, etc.).
 9. Leachate, if appropriate, and storm water run-off controls and prevention for the staging, processing, and storage areas of: (i) dewatered sewage sludge, (ii) lime material, (iii) exceptional quality biosolids, and (iv) lime-stabilized sewage sludge.
- t. Additional information the Department believes is necessary to make a decision.

C. Operating Conditions:

1. Dewatered sewage sludge may be accepted for the processing authorized under this general permit to produce an exceptional quality biosolids, or a lime-stabilized sewage sludge if (i) it meets the definition of free liquids as defined in 25 Pa Code §271.1 of the municipal waste management regulation, and (ii) the concentration of any pollutant in the proposed untreated sewage sludge does not exceed the chemical concentration limits as specified in Table 1 below. Laboratory analysis must be performed by the generator of sewage sludge or the permittee in order to demonstrate that the sewage sludge meets the limits set forth in Table 1 below.

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Table 1

**Chemical Concentration Limits
For Accepting of
Dewatered Sewage Sludge**

1. Pollutant	2. Limit (Dry Weight Basis)
3. Arsenic	4. 75 mg/kg
5. Cadmium	6. 85 mg/kg
7. Copper	8. 4,300 mg/kg
9. Lead	10. 840 mg/kg
11. Mercury	12. 57 mg/kg
13. Molybdenum	14. 75 mg/kg
15. Nickel	16. 420 mg/kg
17. Polychlorinated Biphenyls (PCBs)	18. 8.6 mg/kg
19. Selenium	20. 100 mg/kg
21. Zinc	22. 7,500 mg/kg

2. Representative samples of dewatered sewage sludge, exceptional quality biosolids, and lime-stabilized sewage sludge must be collected and analyzed. More than one sample is usually necessary to accurately represent the dewatered sewage sludge received, exceptional quality biosolids, and lime-stabilized sewage sludge produced or stored. Core samples at different locations and at various depths shall be collected and then composited to obtain a representative sample. In general, the more samples taken, the greater the likelihood that the sampling results will be representative of the quality of the dewatered sewage sludge that is received; and exceptional quality biosolids or lime-stabilized sewage sludge that are produced.

If the production or quality of the dewatered sewage sludge, exceptional quality biosolids, or lime-stabilized sewage sludge produced changes; or the visual observations or analytical results indicate variability in the quality of the dewatered sewage sludge, exceptional quality biosolids, and lime-stabilized sewage sludge produced, more frequent testing shall be conducted.

3. The frequency of monitoring for exceptional quality biosolids as required in Operating Requirement A (2)(a) of Appendix A, and lime-stabilized sewage sludge as required in Operating Requirement A (2)(a) of Appendix B of this general permit shall be as follows:

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TABLE 2

Compliance Monitoring

Amount of Exceptional Quality Biosolids or Lime-Stabilized Sewage Sludge Produced (Tons per 365 Day Period)	Frequency of Monitoring
Greater than 0 but less than 290	Once per year
Equal to or greater than 290 but less than 1,500	Once every 6 months
Equal to or greater than 1,500 but less than 15,000	Once per 90 days
Equal to or greater than 15,000	Once per month

The Department may reduce the frequency of monitoring required in this Operating Condition, but may not be less than once per year, after the exceptional quality biosolids or lime-stabilized sewage sludge has been monitored and complied with the requirements of this general permit for 2 years and the permittee has submitted a written request to the appropriate Department Regional Office asking for a lesser frequency of monitoring.

4. Chemical Analysis Requirements:

- a. The chemical analysis required in Operating Conditions C (1) and C (2), Operating Requirement A (2) of Appendix A, and Operating Requirement A (2) of Appendix B of this general permit shall be performed by a laboratory accredited or registered for accreditation under the Pennsylvania Environmental Laboratory Accreditation Act, Act of 2002, No. 25.
- b. The analytical methodologies used to meet the requirements as specified in Operating Conditions C (1) and C (2), Operating Requirement A (2) of Appendix A, and Operating Requirement A (2) of Appendix B of this general permit shall be those in the most recent edition of the EPA's "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA SW-846), "Methods for Chemical Analysis of Water and Wastes" (EPA 600/4-79-020), "Standard Methods for Examination of Water and Wastewater" (prepared and published jointly by the American Public Health Association, American Waterworks Association, and Water Pollution Control Federation), the Department's "Sampling Manual for Pollutant Limits, Pathogens and Vector Attraction Reductions in Sewage Sludge" or a comparable method subsequently approved by the EPA or the Department.
- c. Upon request by the Department, the permittee shall collect and analyze representative samples of the: (i) dewatered sewage sludge as required in Operating Condition C (1), (ii) exceptional quality biosolids as required in Operating Requirement A (2) of Appendix A, and/or (iii) lime-stabilized sewage sludge as required in Operating Requirement A (2) of Appendix B of this general permit, within 48 hours of the request.

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5. Transportation of dewatered sewage sludge to the processing site, and storage of dewatered sewage sludge, lime material, exceptional quality biosolids, and lime-stabilized sewage sludge shall be as follows:
 - a. In a manner which prevents harborage or breeding of vectors (including mosquitoes) or creation of odor, litter, and other nuisances which may impact the public health, safety, welfare, and the environment.
 - b. In a manner that prevents dispersal of dewatered sewage sludge, lime material, exceptional quality biosolids, or lime-stabilized sewage sludge by wind or water erosion; minimizes risk of fire or explosion; and complies with the requirements of Title 25 Pa. Code, Chapter 285 (relating to Storage, Collection and Transportation of Municipal Waste).
 - c. The vehicle that is used to transport dewatered sewage sludge to the processing site shall have a sealed tailgate and be covered with an impermeable tarp.
 - d. Storage of exceptional quality biosolids or lime-stabilized sewage sludge under the authorization granted in this permit at the active or abandoned mine site, shall be in accordance with the approval issued by the Department.
 - e. In addition to the following, storage of dewatered sewage sludge at the processing site for more than 72 hours is prohibited:
 - i. During processing interruptions exceeding 24 hours, or severe rainstorm events lasting up to 72 hours, the dewatered sewage sludge shall be stored within the processing area and shall be covered with tarps to prevent run-on from reaching the sewage sludge.
 - ii. During a breakdown of processing equipment, the dewatered sewage sludge shall not be stored at the processing site for more than 72 hours.
 - iii. The dewatered sewage sludge shall not be processed or stored within these isolation distances:
 - A. 100 feet or less of a perennial stream or within 33 feet of an intermittent stream;
 - B. Within 300 feet of a water source, unless the current owner has provided a written waiver consenting to the activities closer than 300 feet;
 - C. Within 100 feet of an exceptional value wetland, as defined in 25 Pa. Code §105.17 (relating to wetlands);
 - D. Within 100 feet of the edge of a sinkhole or the perimeter of an unlined depression;
 - E. In an area without an implemented erosion and sedimentation control plan or a farm conservation plan;
 - F. Within 300 feet of an occupied dwelling, unless the current owner has provided a written waiver consenting to the activities closer than 300 feet; and

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- G. Within 11 inches of the seasonal high water table, nor within 3.3 feet of the regional ground water table. For purposes of this condition, the depths to seasonal high water table and regional ground water table shall be based on the most recent soil mapping as published by the United States Department of Agriculture (USDA) Natural Resources Conservation Service, or more detailed mapping data as mapped by an expert in soil science using standard and acceptable mapping procedures as developed by the USDA Natural Resources Conservation Service.
6. Unless stated otherwise by the Department, in writing, the processing and storage area of dewatered sewage sludge shall be constructed, graded and maintained in a well-drained area with a workable surface and slope of 2% – 3% to prevent ponding and control surface run-off, and in accordance with the following:
- a. Storm water run-on at the processing facility shall be diverted away from the processing and storage areas. Proper drainage (i.e., diversions, drains, dikes, etc.) must be constructed and maintained to prevent storm water from coming into contact with the dewatered untreated sewage sludge, lime material, exceptional quality biosolids and lime-stabilized sewage sludge.
 - b. Storm water run-off from the processing facility shall not cause surface water pollution or groundwater degradation and shall be managed in accordance with The Clean Streams Law and regulations promulgated thereunder.
7. The permittee shall not cause or allow a point or non-point source discharge of the combined stormwater run-off and leachate from the processing facility to surface waters of this Commonwealth. An NPDES (National Pollutant Discharge Elimination System) permit may be required if a point or non-point source discharge of the combined stormwater run-off and leachate to the surface waters of the Commonwealth exists.
8. Working surface areas:
- a. The working surface of the processing, and storage areas should be firm, durable, uniformly graded, dry, free of debris, rock, plant or foreign materials. A compacted mixture of lime-stabilized material should be utilized for the working surface.
 - b. The working surface of receiving/staging areas shall be a compacted lime-stone based, uniformly graded, bermed, and maintained to eliminate or prevent ponding and excessive wetting.
9. The exceptional quality biosolids, or lime-stabilized sewage sludge shall not be used as a valley fill material or to fill open pits at the mine sites.
10. The processing activity authorized by this general permit shall not harm or present a public nuisance, a threat of harm to the health, safety or welfare of the people or environment of this Commonwealth. The Department may modify, suspend, revoke or reissue the authorization granted in this general permit if it is deemed necessary to prevent harm or the threat of harm to the public health, and the environment.

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11. Except to the extent the permit states otherwise, the permittee shall manage dewatered sewage sludge, lime material, exceptional quality biosolids, and lime-stabilized sewage sludge as described in the permit application.
12. Failure of measures herein approved to perform as intended, or as designed, or in compliance with the applicable laws, rules, and regulations and terms and conditions of this general permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this general permit.
13. This general permit does not authorize and shall not be construed as an approval to discharge any industrial wastes, wastewater, leachate or run-off from the staging, processing, and storage areas where solid waste management activities are conducted to the waters of the Commonwealth.
14. Nothing in this general permit shall be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulation, providing that said local law, ordinance, or regulation is not preempted by the Solid Waste Management Act, 35 P.S. §6018.101 et seq; and the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988, 53 P.S. §4000.101 et seq.
15. Upon completion of processing activities or by the expiration date of this permit, unless extended by the Department, the permittee shall remove any remaining: dewatered sewage sludge, lime material, exceptional quality biosolids, lime-stabilized sewage sludge, and any other municipal wastes or other materials which contain or have been in contact with the waste, and shall provide for the processing and disposal of the waste or material in accordance with the Solid Waste Management Act, the environmental protection acts and the regulations promulgated thereunder.
16. As a condition of this permit and of the permittee's authority to conduct the activities authorized by this permit, the permittee hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credentials and without delay, to have access to and to inspect all areas on which solid waste management activities are being, will be, or have been conducted. This authorization and consent shall include consent to collect samples of wastes, soils, water, or gases; take photographs; to perform measurements, surveys, and other tests; inspect any monitoring equipment; to inspect the methods of operation and to inspect and/or copy documents, books, and papers required by the Department to be maintained. This permit condition is referenced in accordance with §§608 and 610(7) of the Solid Waste Management Act, 35 P.S. §§6018.608 and 6018.610(7). This condition in no way limits any other powers granted under the Solid Waste Management Act.
17. Any independent contractors or agents retained by the permittee in the completion of processing of dewatered sewage sludge with lime material to produce the (i) exceptional quality biosolids, or (ii) lime-stabilized sewage sludge authorized under this general permit shall be subject to compliance history review by the Department prior to performance of any activities, as specified by the Solid Waste Management Act of 1980 as amended.
18. Equipment used for the processing and storage of dewatered sewage sludge, lime material, exceptional quality biosolids, and lime-stabilized sewage sludge shall be maintained in good operating condition to prevent said materials from being unintentionally conveyed out of the processing and storage areas. Daily inspections of

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each storage area and their surrounding environs are to be conducted to determine compliance of the terms and conditions of this general permit, and for evidence of failure.

19. Unless specifically approved by the Department in writing, at any one time, the maximum amount of dewatered sewage sludge, lime material, exceptional quality biosolids, or lime-stabilized sewage sludge stored may not exceed the total amount of materials as described in the permittee's approved application, and as follows:
 - a. The dewatered sewage sludge, lime material, exceptional quality biosolids, or lime-stabilized sewage sludge is not accumulated for processing unless the permittee shows that said materials are potentially reusable and have a feasible means of being processed; and
 - b. During the calendar year (commencing on January 1), the dewatered sewage sludge, lime material, exceptional quality biosolids, or lime-stabilized sewage sludge that is processed or transferred to a different site for beneficial use, equals at least 75% by weight or volume of the dewatered sewage sludge, lime material, exceptional quality biosolids, or lime-stabilized sewage sludge accumulated at the beginning of the period. In calculating the percentage of turnover, the 75% requirement is to be applied to each waste of the same type (i.e., dewatered sewage sludge, lime material, exceptional quality biosolids, lime-stabilized sewage sludge, etc) that is beneficially used in the same way (that is, from which the same material is recovered or that is used in the same way).
20. The permittee shall comply with the fugitive emissions regulations under 25 Pa. Code, Chapter 123 (Standards for Contaminants) issued under the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, 35 P.S. §4005 and shall comply with all the applicable provisions of the Fugitive Emissions §§123.1, 123.2, and 123.31.
21. The production of exceptional quality or non-exceptional quality biosolids, authorized under this general permit, shall be on a month-to-month basis and exceptional and non-exceptional quality biosolids shall not be treated, processed and produced (i) during the same time period, or during the same calendar month at the same processing site, and (ii) on an agricultural field or farm land.

D. Reporting Requirements:

1. The permittee shall immediately notify the appropriate Department Regional Office, and District Mining Office of the Department's Bureau of Mining Reclamation, in writing, of any changes in: the name, address, owners, operators and/or responsible officials of the company; changes in processing site location; changes in land ownership or the right to operate on the land occupied; the physical or chemical characteristics of the dewatered sewage sludge, lime material, exceptional quality biosolids, or lime-stabilized sewage sludge; the process which produces the exceptional quality biosolids, or lime-stabilized sewage sludge; and the change in status of any permit issued by the Department or any state authority or federal government under the environmental protection acts.
2. Persons operating under the provisions of this general permit shall submit, within 30 days after the anniversary date of issuance of this general permit, to the appropriate Department Regional Office, and District Mining Office of the Department's Bureau of Mining Reclamation, an annual report which contains the information outlined in

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Operating Conditions C (1) and C (2), Operating Requirement A (2) of Appendix A, Operating Requirement A (2) of Appendix B of the general permit, and summarizes the following information:

- a. Name and address of each generator of the untreated sewage sludge received at processing site.
 - b. Weight or volume of dewatered sewage sludge, and lime material used in the production of the exceptional quality biosolids, or lime-stabilized sewage sludge.
 - c. Weight or volume of the exceptional quality biosolids, or lime-stabilized sewage sludge, produced and stored during the last 12 months ending on the anniversary date of the permit.
 - d. Laboratory reports for the following:
 - i. dewatered sewage sludge as required in Operating Condition C (1),
 - ii. exceptional quality biosolids as required in Operating Requirement A (2) of Appendix A,
 - iii. lime-stabilized sewage sludge as required in Operating Requirement A (2) of Appendix B of this general permit.
- The analysis data submitted in compliance with this requirement must be from samples of the waste collected within the past 12 months.
- e. Record of dewatered sewage sludge that was unacceptable, and exceptional quality biosolids or lime-stabilized sewage sludge that was disposed.
 - f. Time period and total amount of exceptional quality biosolids and/or lime-stabilized sewage sludge processed, produced, and stored for beneficial use as a soil conditioner or a soil additive authorized in this general permit.
3. Any person operating under the provisions of this general permit shall notify the appropriate Department Regional Office, and District Mining Office of the Department's Bureau of Mining Reclamation, in writing, if the processing site is relocated or if new location(s) are to be included under this general permit. At least thirty (30) days prior to a permittee operating at a new location, two (2) copies of the information as required in: e, j, k, l, p, q, and s of Section B of this general permit must be provided to the appropriate Department Regional Office (see attached list), for review and approval.
 4. At least seven (7) days prior to the end of the calendar month, the permittee shall notify the appropriate Department Regional Office, and District Mining Office of the Department's Bureau of Mining Reclamation, in writing, of the planned biosolids production for the coming month.
 5. For each new waste source of dewatered sewage sludge, generated by municipal sewage collection and treatment systems or treatment works, the permittee shall submit an analysis of representative samples of the dewatered sewage sludge to the appropriate Department Regional Office, and the District Mining Office of the Department's Bureau of Mining Reclamation or the Department's Bureau of Abandoned Mine Reclamation, by certified mail to demonstrate the dewatered sewage sludge is in compliance with the requirements as specified in Operating Condition C (1) of this general permit, no less than fifteen (15) working days prior to acceptance and beneficial

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use of the dewatered sewage sludge. The permittee may receive the dewatered sewage sludge from a new source in accordance with the conditions of this general permit after the aforementioned fifteen days period unless otherwise instructed by the Department.

E. Renewal:

A person or municipality that plans to continue the operations authorized under this general permit, after the expiration date indicated on the approval for coverage page, shall file a complete application for permit renewal at least 180 days before the expiration date of this general permit unless permission has been granted by the Department for submission at a later date. The renewal application shall include a completed (i) General Information Form (Authorization Application for a Residual or Municipal Waste General Permit Application), (ii) Form B (Professional Certification), (iii) Form 20 (Application for a Municipal or Residual Waste General Permit), (iv) Form 27M (Acceptance of General Permit Conditions), (v) bonding worksheets and (vi) a Renewal Permit application fee in the amount identified in Section A (General Information) of the Form 20 must be submitted to the appropriate Department Regional Office. A check shall be made payable to the "Commonwealth of Pennsylvania." A copy of the renewal application shall also be sent to the attention of the Department's Bureau of Waste Management, Division of Municipal and Residual Waste, Rachel Carson State Office Building, 400 Market Street, P.O. Box 69170, Harrisburg, PA 17106-9170.

In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the general permit or approval for coverage before its current coverage expiration date, the terms and conditions of the approved coverage will automatically continue and will remain fully effective and enforceable pending the issuance or denial of the renewal for permit coverage, provided the permittee is, and has been, operating in compliance with the terms and conditions of the general permit.

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APPENDIX A

EXCEPTIONAL QUALITY BIOSOLIDS

Appendix A establishes specific operating requirements for the blending or mixing of dewatered sewage sludge, and lime material to produce an exceptional quality biosolids for beneficial use; and authorizes specific beneficial uses for the exceptional quality biosolids produced.

The operating requirements, in this Appendix A, are in addition to the Operating Conditions in the general permit.

A. Operating Requirements.

1. Within 24 hours of its receipt, the dewatered sewage sludge shall be lime-stabilized to meet the regulatory requirements as specified in Operating Requirement A (2) of this Appendix A.
2. Prior to its land application, the quality criteria of exceptional quality biosolids produced shall meet the following requirements:
 - a. Pollutant Limits - The concentration of any pollutant in the exceptional quality biosolids produced shall not exceed the chemical concentration limit for the pollutant as specified in Table A1 below:

Table A1

Exceptional Quality Biosolids Produced

Pollutant	Limit (Dry Weight Basis)
Arsenic	41 mg/kg
Cadmium	39 mg/kg
Copper	1,500 mg/kg
Lead	300 mg/kg
Mercury	17 mg/kg
Molybdenum	75 mg/kg
Nickel	420 mg/kg
Polychlorinated Biphenyls (PCBs)	4 mg/kg
Selenium	100 mg/kg
Zinc	2,800 mg/kg

- b. Pathogen Reduction – The exceptional quality biosolids produced shall meet the pathogen reduction requirements as specified in 25 PA Code §271.932(a)(4) of the municipal waste management regulations, and
 - c. Vector Attraction Reduction - The exceptional quality biosolids produced shall meet the vector attraction reduction requirements as specified in 25 PA Code §271.933(b)(6) of the municipal waste management regulations.
3. The exceptional quality biosolids produced, under the authorization granted in this Appendix A, may be sold, given away, applied to an agricultural land or beneficially used

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in a home garden, or land applied to an active or abandoned mine site for reclamation purposes if:

- a. The requirements in Operating Requirement A (2) of this Appendix are met; and
 - b. No other residual or municipal waste was mixed with the dewatered sewage sludge used in the production of exceptional quality biosolids.
4. Exceptional quality biosolids blended with coal ash may be beneficially used under this Appendix A if:
- a. The coal ash is certified by the Department;
 - b. The beneficial use of exceptional quality biosolids blended with coal ash is approved by the Department; and
 - c. The approved blended material is used for mine reclamation purposes on active or abandoned mine sites.
5. The sale, giving away, or land application of exceptional quality biosolids produced, under the authorization granted in this Appendix A, on agricultural land or beneficial use in a home garden must be authorized under either a general permit (i.e., PAG-07) or an individual permit issued under the Department's Bureau of Clean Water, Division of Water Quality Standards.
6. The beneficial use by land application of exceptional quality biosolids produced with or without coal ash, under the authorization granted in this Appendix A, at an active or abandoned mine site must be approved by the Department as part of a mine reclamation permit or project.
7. The permittee shall develop the quantitative information necessary for compliance with the pathogen reduction required in Operating Requirement A (2)(b) of this Appendix A and the vector attraction reduction required in Operating Requirement A (2)(c) of this Appendix A.
8. The permittee shall develop a log system documenting:
- a. That the pathogen reduction treatment was provided to the dewatered sewage sludge and the pathogen reduction requirements as specified in Operating Requirement A (2)(b) of this Appendix A were met.
 - b. That the vector attraction reduction treatment was provided to the dewatered sewage sludge and the vector attraction reduction requirements as specified in Operating Requirement A (2)(c) of this Appendix A were met.
 - c. Name and address of the generator of the coal ash that was blended with the exceptional quality biosolids for land reclamation use at the mine site.
9. The permittee shall maintain records to demonstrate that:

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- a. The dewatered sewage sludge meets the requirements as specified in Operating Condition C (1) of the general permit.
 - b. The exceptional quality biosolids produced meets the requirements as specified in Operating Requirement A (2) of this Appendix A.
 - c. The coal ash blended with the exceptional quality biosolids for land reclamation use at the mine site was certified as specified in Operating Requirement 4 (a) of this Appendix A.
10. Records of all analytical evaluations conducted on the dewatered sewage sludge and exceptional quality biosolids produced shall include the following on each sample: the dates of sampling and testing, sampling procedures, person collecting the sample, each parameter tested, the analytical results, the laboratory used, and analytical methodologies.
 11. Records of all operational parameters (pH value, time, temperature, etc.) achieved on the dewatered sewage sludge and exceptional quality biosolids produced shall include the name and address of the reading location, date and time, value and unit of the reading result.
 12. The records required in this general permit shall be retained at the facility for a minimum of 5 years and made available to the Department upon request.

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APPENDIX B

LIME STABILIZED SEWAGE SLUDGE

Appendix B establishes specific operating requirements for the blending or mixing of dewatered sewage sludge, and lime material to produce for the lime-stabilized sewage sludge for beneficial use and authorizes specific beneficial uses for the lime-stabilized sewage sludge produced.

The operating requirements, required in this Appendix B, are in addition to Operating Conditions specified in the general permit.

A. Operating Requirements.

1. Within 24 hours of its receipt, the dewatered sewage sludge shall be lime-stabilized to meet the regulatory requirements as specified in Operating Requirement A (2) of this Appendix B.
2. Prior to its land application for mine reclamation purposes, the quality criteria of lime-stabilized sewage sludge produced shall meet the following requirements:
 - a. Pollutant Limits - The concentration of any pollutant in the lime-stabilized sewage sludge produced shall not exceed the chemical concentration limit for the pollutant as specified in Table B1 below:

Table B1

Lime-Stabilized Sewage Sludge Produced

Pollutant	Limit (Dry Weight Basis)
Arsenic	75 mg/kg
Cadmium	85 mg/kg
Copper	4,300 mg/kg
Lead	840 mg/kg
Mercury	57 mg/kg
Molybdenum	75 mg/kg
Nickel	420 mg/kg
Polychlorinated Biphenyls (PCBs)	8.6 mg/kg
Selenium	100 mg/kg
Zinc	7,500 mg/kg

- b. Pathogen Reduction – The lime-stabilized sewage sludge produced shall meet the pathogen reduction requirements as specified in 25 PA Code §271.932(b)(3), Appendix A, Section A (5) of the municipal waste management regulations, and
 - c. Vector Attraction Reduction - The lime-stabilized sewage sludge produced shall meet the vector attraction reduction requirements as specified in 25 PA Code §271.933(b)(6) of the municipal waste management regulations.
3. The land application of lime-stabilized sewage sludge produced, under the authorization granted in this Appendix B, or its beneficial use by land application to the agricultural land must be authorized under either a general permit (i.e., PAG-08) or an individual permit

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APPENDIX B

LIME STABILIZED SEWAGE SLUDGE

issued under the Department's Bureau of Clean Water, Division of Water Quality Standards.

4. The beneficial use by land application of lime-stabilized sewage sludge, authorized under the permit issued under the Department's Bureau of Clean Water, Division of Water Quality Standards, to an active or abandoned mine must be approved by the Department as part of a reclamation project.
5. Lime-stabilized sewage sludge blended with coal ash may be beneficially used under this Appendix B if:
 - a. The coal ash is certified by the Department;
 - b. The beneficial use of lime-stabilized sewage sludge blended with coal ash is approved by the Department; and
 - c. The approved blended material is used for mine reclamation purposes on active or abandoned mine sites.
6. The permittee shall develop the quantitative information necessary for compliance with the pathogen reduction required in Operating Requirement A (2)(b) of this Appendix B and the vector attraction reduction required in Operating Requirement A (2)(c) of this Appendix B.
7. The permittee shall develop a log system documenting:
 - a. That the pathogen reduction treatment was provided to the dewatered sewage sludge and the pathogen reduction requirements as specified in Operating Requirement A (2)(b) of this Appendix B were met.
 - b. That the vector attraction reduction treatment was provided to the dewatered sewage sludge and the vector attraction reduction requirements as specified in Operating Requirement A (2)(c) of Appendix B were met.
8. The permittee shall maintain records to demonstrate that:
 - a. The dewatered sewage sludge meets the requirements specified in Operating Condition C (1) of the general permit.
 - b. The lime-stabilized sewage sludge meets the requirements specified in Operating Requirement A (2) of this Appendix B.
9. Records of all analytical evaluations conducted on the dewatered sewage sludge and lime-stabilized sewage sludge produced shall include the following on each sample: the dates of sampling and testing, sampling procedures, person collecting the sample, each parameter tested, the analytical results, the laboratory used, and analytical methodologies.

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10. Records of all operational parameters (pH value, time, temperature, etc.) achieved on the dewatered sewage sludge and lime-stabilized sewage sludge produced shall include the name and address of the reading location, date and time, value and unit of the reading result.
11. The records required in this general permit shall be retained at the facility for a minimum of 5 years and made available to the Department upon request.

**Department of Environmental Protection
Regional Offices
(and Counties Served)**

- I. Bucks, Chester, Delaware, Montgomery, Philadelphia.

Southeast Regional Office

2 East Main Street
Norristown, PA 19401
Phone: (484) 250-5960

- II. Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming.

Northeast Regional Office

2 Public Square
Wilkes-Barre, PA 18701-1915
Phone: (570) 826-2511

- III. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York.

Southcentral Regional Office

909 Elmerton Avenue
Harrisburg, PA 17110-8200
Phone: (717) 705-4706

- IV. Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union.

Northcentral Regional Office

208 West 3rd Street - Suite 101
Williamsport, PA 17701
Phone: (570) 327-3636

- V. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland.

Southwest Regional Office

400 Waterfront Drive
Pittsburgh, PA 15222-4745
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- VI. Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren.

Northwest Regional Office

230 Chestnut Street
Meadville, PA 16335-3481
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