

Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

August 20, 2020

Mark Raffenberg Greater Cincinnati Water Works 5651 Kellogg Ave Cincinnati, OH 45230 Re: Greater Cincinnati Water Works Permit – Short Term Approval Beneficial Use Hamilton County BENU023804

Subject: Greater Cincinnati Water Works Ohio EPA General Permit No.: BUGPDWTM001

Date Coverage Authorized: August 20, 2020

Expiration Date: December 4, 2020

Dear Mr. Raffenberg:

The Ohio Environmental Protection Agency received a Notice of Intent ("NOI") for coverage under Ohio EPA General Permit No: BUGPDWTM001, hereinafter "Permit", from Greater Cincinnati Water Works, dated May 21, 2020.

Greater Cincinnati Water Works is hereby granted coverage under the Permit for the activities identified in the NOI, in accordance with the terms and conditions of the Permit, Ohio Revised Code Chapters 3734 and 6111, Ohio Administrative Code Chapter 3745-599 and applicable laws. Greater Cincinnati Water Works is authorized for coverage for the beneficial use of drinking water treatment materials by placement on land for agronomic benefit as a liming material. To the extent that any provision in the NOI or this authorization for coverage conflicts with a term or condition in the Permit, the Permit shall control.

Please reference your Ohio EPA beneficial use general permit number and BENU023804 for all future correspondence related to beneficial use as authorized in this letter. Please read and review the general permit and the Beneficial Use Rules (Ohio Administrative Code Chapter 3745-599) carefully, as they contain general permit and other requirements and prohibitions with which you must comply. This letter only authorizes beneficial use activities for the beneficial use byproduct identified in your NOI and as described in Ohio EPA General Permit No.: BUGPDWTM001. All other beneficial uses or beneficial use byproducts must be separately approved by Ohio EPA. Coverage under this Permit shall expire at midnight on this Permit's expiration date, December 4, 2020, except as provided in OAC Rule 3745-599-220(G).

You may obtain additional information, copies of the general permit and current forms and instructions from our website at <u>http://www.epa.state.oh.us/dmwm/Home/BeneficialUse.aspx</u>.

Greater Cincinnati Water Works Ohio EPA General Permit No.: BUGPDWTM001 Page 2 of 2

This is the web address for the beneficial use rules: http://epa.ohio.gov/dmwm/dmwmnonhazrules.aspx#1269710055-oac-chapter-3745-599beneficial-use.

You are hereby notified that this action of the Director of Ohio EPA ("Director") is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 made payable to "Treasurer, State of Ohio." The Commission, in its discretion, may reduce the fee if by affidavit it is demonstrated that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission 30 East Broad St., 4 Floor Columbus, Ohio 43215

If you have questions, please call 614-644-2621 and ask to speak with a member of the Division of Materials and Waste Management Beneficial Use Unit.

Sincerely,

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Laurie A. Stevenson Director

Attachments: BUGPDWTM001

Effective Date: DECEMBER 4, 2018 Expiration Date: DECEMBER 4, 2020

## OHIO ENVIRONMENTAL PROTECTION AGENCY

#### GENERAL PERMIT AUTHORIZATION TO BENEFICIALLY USE DRINKING WATER TREATMENT MATERIAL BY PLACEMENT ON LAND FOR AGRONOMIC BENEFIT AS A LIMING MATERIAL

Upon receipt of written notification from the Director of the Ohio Environmental Protection Agency (Director) that coverage is authorized, the Permittee, as defined in Section B of this Permit, is authorized by the Director to beneficially use drinking water treatment material (DWTM) in accordance with the Applicant's Notice of Intent (NOI), the terms and conditions specified in this Permit, and applicable provisions of Ohio Administrative Code (OAC) Chapter 3745-599. Only DWTM as defined in Section B of this Permit and as identified in the Applicant's NOI is authorized for beneficial use by placement on land for agronomic benefit as a liming material under this Permit. All other beneficial uses of DWTM must be separately approved by the Director.

DWTM authorized for beneficial use under this Permit consists of lime and may contain aluminum sulfate, ferric sulfate, and/or poly-aluminum chloride. Aluminum sulfate, ferric sulfate, and poly-aluminum chloride are coagulants often used by public water systems to help remove particulate and dissolved constituents from raw intake water. Lime is used to soften and coagulate raw intake water. Due to its neutralizing potential, DWTM may be placed on the land for agronomic benefit as a liming material.

Coverage under this Permit may be authorized only upon payment of applicable fees and submittal of a complete and accurate NOI, a sampling and analysis plan, and an analysis demonstrating the DWTM is eligible for beneficial use under this Permit. Permit coverage does not become effective until the Permittee receives written notification from the Director that coverage is authorized.

Coverage under this Permit shall expire at midnight on this Permit's expiration date. A Permittee may continue activities authorized by this Permit beyond the date of expiration only as provided in paragraph (G) of OAC Rule 3745-599-220.

Pursuant to the authority of the Director under Ohio Revised Code (ORC) Chapters 6111 and 3734 and OAC Chapter 3745-599, any coverage authorized under this Permit is subject to compliance with the Applicant's NOI, the terms and conditions specified in this Permit, and applicable provisions of OAC Chapter 3745-599. The Permittee's beneficial use of DWTM in accordance with the NOI and this Permit and in compliance with OAC Chapter 3745-599 and other applicable laws is unlikely to adversely impact public health or safety or the environment.

Coverage under this Permit does not relieve the Permittee of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations. Nothing herein shall be construed to release any person, including but not limited to the owner(s) of the land upon which the DWTM is placed, from the obligation to comply with all applicable laws governing the placement or use of the DWTM on the property.

Craig W Butler Director

Ohio EPA DEC 4 '18 Entered Directors Sournal

I cartify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

Date: 12-4-18

# **Terms & Conditions**

## A. Description and Eligibility Criteria for Coverage

- 1. This Permit authorizes the beneficial use of DWTM by placement on the land for agronomic benefit as a liming material only as described in this Permit.
- 2. Only DWTM that meets all of the following criteria is a beneficial use byproduct and is eligible for beneficial use under this Permit:
  - a. The DWTM conforms to the definition of "DWTM" in Section B of this Permit;
  - The 95% Upper Confidence Limit (UCL) of the mean for each constituent in the DWTM does not exceed its constituent concentration limit specified in Table 1 of this Permit (Table 1);
  - c. The concentration of microcystins in the DWTM from a containment area at a surface water system does not exceed 130  $\mu$ g/L ( $\mu$ g/g); and
  - d. The DWTM is not a hazardous waste as defined by ORC Section 3734.01, OAC Rule 3745-50-10(A), or OAC Rule 3745-51-03.
- 3. An Applicant may apply for another general permit in accordance with OAC Rule 3745-599-200 or an individual beneficial use permit in accordance with OAC Rule 3745-599-310 for beneficial use of DWTM not eligible for coverage under this General Permit.

#### B. Definitions

Unless otherwise stated in this Permit, the terms used in this Permit shall have the same meaning as used in OAC Chapter 3745-599. The following definitions are specific to this Permit:

"Agronomic benefit" means the promotion or enhancement of plant growth and includes but is not limited to increases in soil fertility and moisture retention.

"Applicant" means the person applying for coverage under this Permit.

"Containment area" means the areas and structures where DWTM is stored or treated, including any lagoon, pit, or tank.

"Cyanobacteria" means photosynthesizing bacteria, also called blue-green algae, which naturally occur in marine and fresh water ecosystems, and may produce cyanotoxins that at sufficiently high concentrations can pose a risk to public health.

"Cyanotoxin" means a toxin (such as microcystins) produced by cyanobacteria, which include liver toxins, nerve toxins, and skin toxins.

"Dewatered" means the material has no free liquids as determined by *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846)<sup>1</sup> Test Method 9095B- Paint Filter Liquids Test.

<sup>&</sup>lt;sup>1</sup> EPA publication SW-846, "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846)," as amended through July 2016.

"Drinking water treatment material" (DWTM) means a byproduct resulting from the treatment of a public water system's source water supply for drinking water by the addition of lime. DWTM may contain aluminum sulfate, ferric sulfate, and/or poly-aluminum chloride.

"Fill" means material placed on the ground in order to fill an existing depression or hole in the ground, create mounds, or otherwise artificially change the grade or elevation of the property.

"Frozen ground" means ground that has a temperature at or below thirty-two degrees Fahrenheit and that meets either of the following criteria: 1) is not easily penetrated by a metal object or 2) does not deform to show visible imprint under downward pressure.

"Liming material" means all material, the calcium and magnesium content of which is used to neutralize soil acidity, and includes the oxide, hydrate, carbonate, and silicate, or combinations of those forms.

"Microcystins" means total microcystins: the combination of all the variants of the cyanotoxin microcystin, which is produced by a number of cyanobacteria.

"Microcystins detection" means an analytical result that is equal to or greater than the reporting limit for the analytical method specified in OAC Rule 3745-90-04.

"Notice of Intent" (NOI) means the form prescribed by the Director for use when requesting coverage under a beneficial use general permit.

"Occupied building" means a structure, permanent in nature, where one or more human beings may be present.

"Permittee" means an Applicant for whom the Director has approved coverage under this Permit.

"Public water system" (PWS) means a system that provides water for human consumption through pipes or other constructed conveyances, if such system has at least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least sixty days out of the year. Such term includes any collection, treatment, storage, and distribution facilities under control of the operator of such system and used primarily in connection with such system, any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system, and any water supply system serving an agriculture labor camp, as defined in Section 3733.41 of the Revised Code. Such term does not include any "special irrigation district," as defined in 40 CFR 141.2.

"Saturated soil" means all of the pore spaces in the soil are filled with water. A soil that has an available water capacity above field capacity is considered saturated.

"Snow covered ground" means soil or residue lying on the soil cannot be seen because of snow cover, or soil covered by one-half inch or more of ice.

"Structural fill" means material used to create a stable base that both meets the applicable engineering specifications for and is used as engineered fill, mechanically stabilized earthen walls, or granular fill.

"Surface water system" means a public water system which uses surface water, in whole or in part, as its source of water.

"Waters of the state" has the same meaning as in section 6111.01(H) of the Revised Code.

#### C. Application Requirements

- 1. For each Public Water System (PWS) from which the Applicant intends to obtain DWTM for beneficial use under this Permit, the Applicant shall do all of the following before submitting an NOI:
  - a. Develop and implement a sampling and analysis plan in accordance with Condition C.4;
  - b. Determine the concentration of the constituents listed in Table 1 (sampling analysis) in accordance with the sampling and analysis plan (SAP) developed pursuant to Condition C.4;
  - c. Perform a statistical evaluation of the results of the sampling analysis for each of the constituents listed in Table 1 in accordance with the SAP developed pursuant to Condition C.4;
  - d. Determine the pH of the DWTM in accordance with the SAP developed pursuant to Condition C.4;
  - e. For surface water systems, determine when each containment area was completely emptied and determine the concentration of microcystins in the DWTM in each containment area that has not been completely emptied since July 1, 2016; and
  - f. For surface water systems with containment areas that have been completely emptied since July 1, 2016, review the raw water compliance samples collected and analyzed in accordance with OAC Chapter 3745-90 to determine if the PWS has had a microcystins detection since the containment area was last completely emptied. If there has been a microcystins detection in the raw water compliance samples, determine the concentration of microcystins in the DWTM in each containment area.
- 2. To obtain coverage under this Permit, an Applicant shall, in accordance with OAC Rule 3745-599-210, submit an application to the Director containing all of the following:
  - One copy of a complete and accurate NOI on a form provided by the Director, including a demonstration that the DWTM satisfies all of the Eligibility Criteria for Coverage in Section A of this Permit. The NOI form shall be signed by the Applicant in accordance with OAC Rule 3745-599-25;
  - b. The SAP developed in accordance with Condition C.4 and implemented in accordance with Condition C.1 of this Permit;
  - c. Copies of the raw water microcystins compliance sampling data for each PWS that is a surface water system;
  - d. The results of each analysis, evaluation, and determination conducted in accordance with Condition C.1 of this Permit;

- e. A copy of any liming material license required by ORC Section 905.52; and
- f. The application fee of \$200.
- 3. The application shall be submitted to the following address:

Mail to: Ohio Environmental Protection Agency Division of Materials and Waste Management Attn: Beneficial Use Unit P.O. Box 1049 Columbus, Ohio 43216-1049

or

Deliver to: Ohio Environmental Protection Agency Lazarus Government Center Division of Materials and Waste Management Attn: Beneficial Use Unit 50 West Town Street, Suite 700 Columbus, Ohio 43215

- 4. The SAP for each PWS shall, at a minimum, contain provisions requiring both of the following:
  - a. Metals and pH sampling and analysis in accordance with all of the following:
    - Collection of samples of DWTM from each PWS using a strategy to obtain representative samples as described in *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846)<sup>2</sup>;
    - ii. Analysis of each sample for pH and for total metals as described in SW-846 for the constituents listed in Table 1; and
    - iii. Statistical evaluation of the analytical results, including the determination of the 95% UCL of the mean for each constituent specified in Table 1 utilizing ProUCL<sup>3</sup> or another method acceptable to Ohio EPA.

<sup>&</sup>lt;sup>2</sup> EPA publication SW-846, "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846)," as amended through July 2016.

<sup>&</sup>lt;sup>3</sup> United States environmental protection agency, technical support center for monitoring and site characterization, "Statistical Software ProUCL 5.0 for Environmental Applications for Data Sets with and without Nondetect Observations, EPA-600-R-07-041;" September 2013. The full text is available in electronic format at: http://www.epa.gov/osp/hstl/tsc/software.htm.

Constituent <sup>4,5</sup>	Totals Analysis <sup>6</sup> (mg/kg)
Aluminum <sup>7</sup>	50,000
Arsenic (As)	41
Barium (Ba)	15,000
Cadmium (Cd)	39
Copper (Cu)	1,500
Lead (Pb)	300
Manganese (Mn)	1,800
Nickel (Ni)	420
Selenium (Se)	100
Zinc (Zn)	2,800

# Table 1: Constituent Concentration Limits

\* - dry weight basis

- b. For each PWS that is a surface water system, a microcystins evaluation including all of the following:
  - i. A process for determining whether the DWTM is eligible for beneficial use under this Permit that includes obtaining from the PWS the microcystins raw water compliance sampling results collected since the containment areas were last emptied and reviewing the results to determine whether microcystins were detected;
    - If microcystins were detected in the compliance raw water samples, sampling and analyzing the DWTM in each containment area in accordance with the microcystins sampling and analysis provisions of the SAP;
    - If microcystins were not detected in the compliance raw water samples, but the containment areas have not been completely emptied since July 1, 2016, sampling and analyzing the DWTM in each containment area in

<sup>&</sup>lt;sup>4</sup> Ba, Mn: US EPA Regional Screening Levels, Residential Soil.

<sup>&</sup>lt;sup>5</sup> As, Cd, Cu, Pb, Ni, Se, Zn: US EPA 40 CFR Part 503 Pollutant Concentrations (Table 3 of 503.13). <sup>6</sup> EPA publication SW-846, "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846)," Section 1.2 of the TCLP Method 1311 *does* allow for a total constituent analysis in lieu of the TCLP extraction. "If a total analysis of the waste demonstrates that individual analytes are not present in the waste, or that they are present but at such low concentrations that the appropriate regulatory levels could not possibly be exceeded, the TCLP need not be run."

<sup>&</sup>lt;sup>7</sup> With aluminum concentrations exceeding 50,000 mg/kg, special care may be needed to prevent plant phosphorus deficiency. "High aluminum" materials should be considered for phosphorus sorption. Elizabeth Dayton et al, *Beneficial Use of Aluminum-Based Drinking Water Treatment Residuals (WTR): Urban and Agricultural Applications Final Report* (The Ohio State University School of Environment and Natural Resources, 2016).

accordance with the microcystins sampling and analysis provisions of the SAP.

- ii. If required under Condition C.4.b.i, microcystins sampling and analysis in accordance with all of the following:
  - Samples of DWTM from each containment area at the PWS shall be collected using a strategy to obtain representative samples as described in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846);
  - 2. Individual grab samples of the DWTM from one containment area may be combined into representative composite samples;
  - 3. Each individual grab sample or, if composite samples are being used, each composite sample shall be analyzed for microcystins by a lab certified by Ohio EPA under OAC Chapter 3745-89 to conduct microcystins analysis; and
  - Microcystins analysis shall be performed utilizing the "Ohio EPA Amenable (Extracellular and Intracellular) Microcystins-ADDA in Sludge" by ELISA Analytical Methodology (Ohio EPA DES 701.3).

### D. Operating Conditions

Coverage under this Permit becomes effective when the Applicant receives written notification from the Director that coverage is authorized. With this granting of coverage, the Applicant becomes the Permittee. The Permittee shall conduct all activities authorized by this Permit in accordance with this Permit, the NOI, and OAC Chapter 3745-599.

- 1. The Permittee shall not use DWTM as fill or structural fill under this Permit.
- 2. The Permittee shall not place DWTM in any area described in ORC Section 3734.02(M), including within the boundaries of a state park, a state park purchase area, any unit of the national park system, any property that lies within the boundaries of a national park or recreation area that is located in this state, or any candidate area located in this state and identified for potential inclusion in the national park system.
- 3. The Permittee shall not beneficially use, make available, or distribute for beneficial use any DWTM under this Permit for which the 95% UCL of the mean exceeds any constituent concentration limit specified in Table 1 of this Permit or in which the concentration of microcystins exceeds 130 µg/L.
- 4. When there is a substantial change in the water treatment processes, as defined in OAC Rule 3745-91-01, prior to beneficially using the DWTM under this Permit, the Permittee shall determine constituent concentrations for each constituent listed in Table 1 through additional sampling and analysis, performed in accordance with the SAP developed pursuant to Condition C.4. of this Permit. The Permittee may beneficially use DWTM generated after the substantial change under this Permit only if a statistical evaluation of the results of the additional sampling analysis demonstrates that the 95% UCL of the mean for each constituent concentration does not exceed the limits specified in Table 1.

- 5. The Permittee shall immediately cease beneficial use of the DWTM from any PWS pursuant to this Permit if it is determined by the Permittee or by Ohio EPA that the DWTM no longer satisfies the Eligibility Criteria for Coverage in Section A of this Permit.
- 6. If the Permittee identifies a PWS from which the Permittee intends to obtain DWTM for beneficial use under this Permit after coverage under this Permit is authorized, the Permittee shall submit to the Director a new application that complies with Section C of this Permit for the additional PWS from which DWTM is to be obtained for beneficial use.
- 7. Before removing or receiving DWTM from any containment area for beneficial use, the Permittee shall obtain from the PWS the microcystins raw water compliance sampling results collected since the results were last reviewed in accordance with this Permit. The Permittee shall review the results to determine whether microcystins have been detected. In addition, the Permittee shall obtain from the PWS the date upon which each containment area last received DWTM.
- 8. If the review conducted in accordance with D.7 reveals that microcystins have been detected in raw water compliance samples at concentrations greater than those submitted in accordance with Condition C.2.c, the Permittee shall immediately cease beneficial use from every containment area that received DWTM generated on or after the date the compliance sample was collected and shall notify Ohio EPA Division of Materials and Waste Management of the increased raw water microcystins sampling results. The Permittee may resume beneficial use of DWTM from such containment area(s) only when all of the following occur:
  - a. The Permittee determines the concentration of microcystins in the DWTM in that containment area through microcystins sampling and analysis performed in accordance with the SAP required by Condition C.4 of this Permit;
  - b. The results of the microcystins sampling and analysis demonstrate that the concentration of microcystins in the DWTM in that containment area is less than 130 μg/L (μg/g);
  - c. The Permittee provides the microcystins raw water compliance sampling data obtained in accordance with Condition D.7 and the analytical results from the microcystins sampling and analysis required in Condition D.8.a. of this Permit to Ohio EPA; and
  - d. The Permittee receives written notification from Ohio EPA stating that beneficial use of the DWTM from that containment area may resume in accordance with this Permit.

#### **DWTM STORAGE**

- 9. The Permittee may store dewatered DWTM at the site of beneficial use for up to 180 days. The Permittee shall use Best Management Practices when storing DWTM pursuant to this Permit including, at a minimum, all of the following:
  - a. Minimizing the exposure of DWTM to precipitation, snowmelt, and runoff throughout the storage, processing, and staging of the material (including loading and unloading, disposal, cleaning, and maintenance operations);

- b. The use of grading, berming, or curbing to prevent DWTM runoff and divert run-on away from storage areas;
- c. Providing and maintaining a 50-foot undisturbed natural buffer around surface waters of the state, directing storm water to vegetated areas to increase sediment removal and maximize storm water infiltration;
- d. Locating all DWTM storage areas at least 300 feet from an occupied building;
- e. Locating all DWTM storage areas at least 300 feet from wells and surface waters used for drinking water or watering livestock and at least 100 feet from other surface waters of the state;
- f. Unless otherwise provided in a permit issued under ORC Chapter 6111, creating surface diversions to catch any solids in runoff or to divert runoff away from waters of the state or adjacent properties at each site where DWTM is stored on land;
- g. Not storing DWTM in areas that are either over or within a sensitive groundwater area, including any of the following:
  - i. Karst terrain;
  - ii. A sand and gravel pit;
  - iii. A limestone or sandstone quarry;
  - iv. A drinking water source protection area with less than ten feet of low permeability clay rich glacial till between the bottom of the fill material and the aquifer used by the applicable public water supply well as a source of ground water;
  - v. An aquifer designated on an Ohio Department of Natural Resources Ground Water Resources map for the county in which the beneficial use activity will take place as capable of yielding one hundred gallons-per-minute or more, which has less than ten feet of separation between the bottom of the fill material and the aquifer.
- h. Taking measures to control fugitive dust and other air emissions that may result from activities authorized through this Permit.
- Except for storage as authorized by Condition D.9, the Permittee shall obtain a permit to install and any other applicable authorization from Ohio EPA Division of Surface Water prior to dewatering or storing DWTM.

## DWTM LAND APPLICATION CONDITIONS

11. After the most recent liming application, but not more than twelve months prior to beneficial use, the Permittee shall determine the pH of the soil at the beneficial use site in accordance with Ohio State University Extension "Soil Sampling to Develop Nutrient Recommendations (AGF 513-12)". The Permittee shall not beneficially use DWTM pursuant to this Permit at any site where the soil has a pH equal to or greater than 7.5.

- 12. The Permittee shall calculate the per acre application rate for each beneficial use site upon which the Permittee intends to beneficially use DWTM pursuant to this Permit. The Permittee shall ensure that the application rate will not result in a total liming rate that exceeds the equivalent of six dry tons of DWTM being applied per acre over a three-year period. When calculating the appropriate application rate, the Permittee shall perform of all of the following:
  - a. Consult Ohio State University Extension Nutrient Management Fertility Factsheets, Bulletins and Tools website https://agcrops.osu.edu/FertilityResources;
  - b. Base the application rate on the ideal soil pH range for the crop to be grown, the existing soil pH, and the effective neutralizing power of the DWTM (as determined by the most recent sampling results of the DWTM);
  - c. Consider the potential for runoff of the DWTM, either by itself or carried in storm water; and
  - d. Determine the available water capacity of the soil in accordance with Appendix B of OAC Rule 901:10-2-14 and, for non-dewatered DWTM, ensure that the application rate does not exceed the available water capacity of the soil, or 10,000 gallons per acre per week, whichever is less.
- 13. The Permittee shall not apply DWTM at a rate greater than the application rate calculated in accordance with Condition D.12.
- 14. The Permittee shall use Best Management Practices when applying DWTM on the ground for agronomic benefit as a liming material pursuant to this Permit including, at a minimum, all of the following:
  - a. DWTM shall not be land applied within 300 feet of an occupied building, unless a reduction in this distance for land application of DWTM is approved, in writing, by the land owner and, if applicable, the resident of the occupied building;
  - b. DWTM shall not be land applied within 300 feet of wells and surface waters used for drinking water or watering livestock or within 100 feet of wells and surface waters used for drinking water or watering livestock if there is a 100-foot grass buffer between the land application area and wells and surface waters used for drinking water or watering livestock;
  - c. DWTM shall not be land applied within 33 feet of surface waters of the state that are not referenced in Condition D.14.b;
  - d. DWTM shall not be land applied during precipitation;
  - e. DWTM shall not be land applied to saturated soil;
  - f. DWTM shall not be applied onto frozen or snow-covered ground; and
  - g. Measures shall be taken to control fugitive dust and other air emissions that may result from activities authorized through this Permit.

- 15. When land applying DWTM pursuant to this Permit, the Permittee shall use application methods that ensure even distribution of the DWTM. The Permittee shall not apply DWTM by means of injection of DWTM.
- 16. In addition to complying with the Best Management Practices in Conditions D.14 and D.15 of this Permit, if the microcystins concentration in the DWTM analyzed in accordance with the SAP plan required by Condition C.4 of this Permit exceeds 20 μg/L, then when land applying DWTM the Permittee:
  - a. Shall till the DWTM into the soil to a minimum depth of six (6) inches on the beneficial use site, within six (6) hours of the land application;
  - b. Shall not land apply DWTM when there is at least a fifty percent chance of at least a quarter inch of rain within twenty-four hours of land application; and
  - c. Shall not land apply DWTM under this Permit to subsurface drained fields if the drains are flowing, unless there is an on-site means of stopping the discharge from subsurface drains to waters of the state. The Permittee shall ensure that all tile outlets from the beneficial use site are plugged and all tile stops are closed prior to or at the same time as land application of DWTM and that the outlets and stops remain plugged/closed until there is no discharge from the tile stops or tile outlets.

### **RECORD KEEPING AND REPORTING**

- 17. The Permittee shall retain the following information for a minimum of five years after beneficial use of the DWTM under this Permit has occurred and the Permittee shall make all of the following information available to Ohio EPA upon request:
  - a. Records of the name, address, and telephone number of each PWS from which DWTM was obtained;
  - b. Records of the annual volume of DWTM accepted for beneficial use from each PWS, and the volume of DWTM from each PWS actually beneficially used annually;
  - c. Documentation demonstrating that the DWTM is not a hazardous waste as defined by ORC Section 3734.01, OAC Rule 3745-50-10(A), and OAC Rule 3745-51-03;
  - d. Records of each location where the DWTM is stored, blended, or placed on land by the Permittee;
  - e. The sampling and analysis plan detailing where and how samples of DWTM from each PWS were collected, dates that the samples were collected, and the list of constituents from Table 1 for which samples were analyzed;
  - f. All laboratory data and analyses of the pH and constituent concentrations listed in Table 1 and the total microcystins analysis, if required, in the DWTM;
  - g. Records of precipitation on days DWTM was land applied;
  - h. Records of the application rate calculations and results of soil pH for each beneficial use site; and

- i. Copies of liming material licenses required by ORC Section 905.52.
- 18. The Permittee shall retain for a minimum of five years and make available to Ohio EPA upon request records of the applications of DWTM in which the microcystins concentration exceeds 20 μg/L (μg/g), including all of the following:
  - a. The location of each beneficial use site upon which the DWTM was placed, identified by either street address or latitude and longitude;
  - b. The location of each field that contains subsurface tile drainage, for each beneficial use site where DWTM was land applied;
  - c. For each beneficial use site, the number of acres upon which the DWTM was land applied;
  - d. Actual precipitation forecast data consulted for compliance with Condition D.14.d and Condition D.16.b of this Permit;
  - e. The date the DWTM was land applied on each beneficial use site;
  - f. The date of each application of DWTM for each beneficial use site, together with the volume of DWTM (in wet tons or in dry tons) that was land applied on that date;
  - g. The method or equipment used to ensure that the DWTM was mixed with soil to a minimum depth of six inches on the beneficial use site; and
  - h. The Best Management Practices used on each beneficial use site to satisfy Conditions D.14-16 in this Permit.
- 19. Not later than April first of each year the Permittee shall submit to Ohio EPA an annual report. The Permittee shall send the annual report to the address listed in Condition C.3. of this Permit, and shall include the following information for the previous calendar year:
  - a. Volume of DWTM beneficially used under this Permit;
  - b. Volume of DWTM stored for beneficial use under this Permit as of the date of the annual report; and
  - c. Results of sampling analyses of DWTM beneficially used under this Permit.

#### **GENERAL OPERATING CONDITIONS**

- 20. The Permittee shall conduct all activities authorized by this Permit in strict accordance with this Permit, the NOI, and OAC Chapter 3745-599.
- 21. Approval of coverage under this Permit does not constitute assurance that the beneficial use of DWTM by placement on the land for agronomic benefit as a liming material, as described in this Permit, will comply with all Ohio laws and regulations.

- 22. The Permittee shall store and beneficially use DWTM under this Permit in such a manner that the activities will neither cause a nuisance nor adversely affect public health, safety or the environment.
- 23. The Permittee shall conduct all activities in compliance with all applicable local, state, and federal laws and regulations pertaining to environmental protection, including but not limited to the control of air pollution, leachate, and storm water run-on and run-off, and the protection of ground water and surface water.
- 24. The Permittee shall conduct all activities in compliance with all other applicable local, state, and federal laws and regulations not explicitly identified in this Permit.
- 25. DWTM is considered a solid waste and its permanent placement on the ground would require the Permittee to obtain a permit and license under ORC Chapter 3734 and the rules promulgated thereunder. The Director has determined that granting an exemption from the applicable solid waste provisions of ORC Chapter 3734 to use DWTM in the quantities and under the circumstances specifically authorized in this Permit is unlikely to adversely affect public health or safety or the environment. Therefore, pursuant to ORC Section 3734.02(G), the Permittee is hereby exempted from the applicable solid waste provisions of ORC Chapter 3734 and the rules adopted thereunder when the DWTM is stored or placed on the land for beneficial use as authorized in this Permit subject to compliance with all conditions in this Permit, the NOI, and OAC Chapter 3734-599.
- 26. Nothing in this Permit shall be construed as a waiver from the requirements of ORC Chapter 3734 or the regulations promulgated thereunder, except as expressly provided herein. This Permit shall not be interpreted to release the Permittee from responsibility under ORC Chapters 3704, 3734, or 6111; under the Federal Clean Water Act, the Resource Conservation and Recovery Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable requirements for remedying conditions resulting from any release of contaminants to the environment.
- 27. The Permittee shall not cause pollution or cause any DWTM to be placed in a location where it causes pollution to waters of the state except in accordance with an effective National Pollutant Discharge Elimination System (NPDES) permit. The Permittee shall report any unauthorized discharge to waters of the state to Ohio EPA (call 1-800-282-9378) within twenty-four (24) hours of discovery.
- 28. The Permittee shall furnish to the Director or an authorized representative of Ohio EPA, within 30 days of receiving a written request, any information that the Director or an authorized representative of Ohio EPA requests to determine whether cause exists for revoking coverage under or determining compliance with this Permit.
- 29. When the Permittee becomes aware of new relevant information, that relevant facts were omitted from the NOI, or that incorrect information was included in the NOI to the Director, the Permittee shall promptly submit such facts or correct such information.
- 30. To the extent that any provision in an application for coverage or NOI conflicts with a term or condition in this Permit, this Permit shall control.
- 31. The Permittee shall comply with OAC Rules 3745-599-05 (general exclusions), 3745-599-20 (prohibitions), 3745-599-25 (signatures), 3745-599-35 (legitimacy criteria), 3745-599-60

(approved sampling and characterization procedures), 3745-599-210 (notice of intent to obtain coverage under a general beneficial use permit), and 3745-599-220 (coverage under a general beneficial use permit). If there is a conflict between a requirement in a rule and a condition of this Permit that cannot be reconciled, the Permittee shall notify the Director in writing of the conflict and shall comply with the Permit condition unless directed otherwise by the Director.

### E. Site Access

The Permittee shall allow the Director or an authorized representative of Ohio EPA to:

- 1. Enter upon the beneficial use site where an activity is located or conducted under this Permit or where records are retained by the Permittee under OAC Chapter 3745-599 or the terms and conditions of this Permit.
- 2. Have access to and copy any records that must be kept under OAC Chapter 3745-599 or the terms and conditions of this Permit.
- Collect samples; take photographs; perform measurements, surveys, and other tests; and inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under OAC Chapter 3745-599 or this Permit.

### F. Revocation of Coverage

The Director may revoke coverage under this Permit upon making a determination that any of the Eligibility Criteria for Coverage are no longer satisfied, that the Permittee has failed to comply with this Permit or OAC Chapter 3745-599, or as otherwise provided in accordance with OAC Rule 3745-599-220.

The Director may revoke coverage under this Permit if the Director determines that a nuisance condition or an adverse impact to public health, safety, or the environment exists. Immediately upon the effective date of any written notification from the Director of revocation of coverage under this Permit, the Permittee shall cease beneficial use under this Permit. The Director may require the Permittee to remove the DWTM stored at the site, remediate the site where the DWTM was stored, or to take other action as appropriate to eliminate the nuisance or impact.