DRAFT

AIR EMISSION PERMIT NO. 02500056-001
Total Facility Operating Permit

IS ISSUED TO

Tiller Corp

TILLER - NORTH BRANCH
6384 415th Street
North Branch, Chisago County, MN 55056

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the Permit Applications Table.

This permit authorizes the Permittee to operate and construct the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the State Implementation Plan (SIP) under 40 CFR § 52.1220 and as such are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: State; Limits to Avoid Pt 70/Limits to Avoid NSR; Limits to Avoid NSR
Operating Permit Issue Date: {Issue Date}
Expiration Date: Non-Expiring
– All Title I Conditions do not expire.

Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit	April 04, 2012 (initial) November 06, 2012 (final)	001

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NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

The North Branch Facility produces industrial sand for use in various industries. Washed sand is brought onsite by truck, unloaded and conveyed to onsite storage piles. A conveying system transports the sand from the onsite piles to the sand dryer to remove the excess moisture. Once the sand is dried, it is conveyed to the gyrotory sifter that separates the sand into various sizes for end use applications. The sorted sand is then transferred through the conveying system to the appropriate storage silo and shipped offsite either via truck or rail. A majority of the product is shipped offsite via rail. The facility operates year round and typical operations are expected to be twenty-four hours per day, seven days per week with the exception of trucking operations which are expected to be twelve hours per day, six days per week with occasional overnight operations if needed. The facility also has a generator to supply power for peak shaving which is also used in emergency situations.

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Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item: **Total Facility**

What to do	Why to do it
SOURCE-SPECIFIC REQUIREMENTS	hdr
Permit Appendix: This permit contains an appendix as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendix.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2
Comply with Fugitive Emission Control Plan: This plan shall identify all fugitive emission sources, primary and contingent control measures, and record keeping. The Permittee shall follow the actions and recordkeeping specified in the control plan. The plan may be amended by the Permittee with the Commissioner's approval. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors as requested by the Commissioner.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0100; Minn. R. 7007.0800, subp. 2; Minn. R. 7011.0150; Minn. R. 7009.0020
Feed Material Moisture Content: greater than or equal to 2.00 percent	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Demonstrate the moisture content is greater than or equal to 2.00% by either 1 or 2: 1. Test moisture content of each different feed material source (sampled at an area representative of the feed source and physically capable of being sampled), as follows: a. Use ASTM method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test daily, when operating.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
d. When testing indicates that feed material moisture content is less than 2.00%, in situations where it is infeasible to sample and test, or where the Permittee elects not to sample and test, the Permittee shall operate a moisture addition device at or immediately prior to the drier where unprocessed feed material is being fed to achieve a moisture content greater than or equal to 2.00%. Moisture addition during operation shall continue until subsequent moisture content testing demonstrates that feed material moisture content is greater than or equal to 2.00%. Daily, when operating, either:	(continued) Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
i. Keep records of the date, water flow rate, material throughput rate, initials of the person making the record, and the time the record was made; or ii. Conduct moisture content testing on the feed material after water application, and if results show moisture content is less than 2.00%, increase water addition to insure moisture content is 2.00% or greater and re-test to verify. 2. Keep records indicating instances when feed material was sourced from or is being removed from below the water table or wet processed prior to arriving at the site. Records shall include a description of the source, the corresponding dates, and the initials of the person making the record.	(continued) Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Non-Process Dust Control: All reasonable measures shall be taken to prevent avoidable amounts of particulate matter from becoming airborne. In a practical manner this refers to preventing avoidable visible dust emissions beyond the lot line surrounding the stationary source. Control of non-process dust emissions can be achieved through such measures as applying water or commercially available dust suppressant to stockpiles, unpaved roads and handling areas. The permittee will minimize fugitive dust by following the Fugitive Dust Control Plan. In addition, the following requirements apply to the Permittee:	Minn. R. 7011.0150

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1. Record date and time of action and name of person making the record. 2. Record amount of water or dust suppressant applied. 3. If a commercially available dust suppressant is used, it shall be applied in accordance with the manufacturer's guidelines. The Permittee must keep a copy of these manufacturer's guidelines. 4. Record the location (e.g., site sketch) of water or dust suppressant application. 5. Install a rain gauge at the site and record the precipitation in the previous 24 hours for each day of operation at the site. 6. Make and record basic weather observations according to the MPCA Weather Summary Criteria that best characterize each operating day. 7. Unpaved roads at the site shall be posted with speed limit signs indicating a maximum speed of 15 miles per hour. 8. Equipment to apply water or dust suppressant shall always be available at the site within a given operating day.	(continued) Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Labeling Requirements: Permanently affix the manufacturer's serial number (or otherwise unique identifying number) to each piece of screening, transfer operation, and stationary internal combustion engine equipment for tracking purposes within 60 days of permit issuance. The number shall be permanently affixed and maintained so that it is readable and visible at all times from a safe distance at each stationary source. This number shall correspond to the number contained in records regarding the piece of equipment.	Minn. R. 7007.0800, subp. 2, Minn. R. 7007.0800
OPERATIONAL REQUIREMENTS	hdr
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	40 CFR pt. 50, Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, ubps. 7A, 7L & 7M; Minn. R. 7007.0800, subps. 1, 2, & 4; Minn. R. 7009-0010 - 009.0080
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 and 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
All trucks, hauling material for or to be used in processing, with open beds that enter the facility shall have covers to minimize dust generation from the products hauled. The Permittee shall not allow trucks without covers to make any product deliveries or pick-ups. The Permittee shall not receive or transport material in unenclosed train cars.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2□□
The Permittee shall keep a daily record of the number of trucks entering the facility.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2
PERFORMANCE TESTING	hdr

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Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Table A of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in an alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2
Opacity Performance Testing: As provided in Minn. R. 7017.2020, subp. 2, the Permittee may conduct performance testing required by this permit as included in an approved performance test plan. The Permittee shall be certified in Method 9. The number of tests to be determined by the Permittee and MPCA.	Minn. R. 7017
On each day of operation, the Permittee shall ensure that at least one Method 9 certified employee or representative is onsite.	Minn. R. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration: The Permittee shall calibrate all required monitoring equipment at least once every 12 months (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
RECORDKEEPING	hdr
Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A). The records may be maintained in either electronic or paper format.	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes. The records may be maintained in either electronic or paper format.	Minn. R. 7007.0800, subp. 5(B)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	hdr

Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095
NEW SOURCE PERFORMANCE STANDARDS - General Provisions	hdr
Notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR Section 60.14(e).	40 CFR Section 60.7(a)(4); Minn. R. 7019.0100, subp. 1
Notification of Anticipated Date for Conducting Opacity Observations: due 30 day prior to observation date	40 CFR Section 60.7(a)(6); Minn. R. 7019.0100, subp. 1
If an owner or operator of an existing facility proposes to replace components, and the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, he shall notify the Administrator of the proposed replacements.	40 CFR Section 60.15(d); Minn. R. 7011.0050; 40 CFR 60.7(a), Minn. R. 7007.0800, subp. 2, Minn. R. 7011.3350)
Recordkeeping: Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility including; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR 60.7(b), Minn. R. 7019.0100, subp. 1

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Recordkeeping: Maintain a file of all measurements, maintenance, reports and records for at least five years. 40 CFR Section 60.7(f) specifies two years.	Minn. R. 7007.0800, subp. 5(C); meets requirements of 40 CFR Section 60.7(f); Minn. R. 7019.0100, subp. 1
Opacity Compliance: When measuring opacity to demonstrate compliance with opacity standards, using Reference Method 9.	40 CFR Section 60.11; Minn. R. 7017.2015
No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard.	40 CFR Section 60.12; Minn. R. 7011.0050

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Subject Item: **GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Loa**

Associated Items: CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 008 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 003 Gyrotory Sifter System

EU 004 Conveyor System

EU 005 Rail Load-Out

EU 006 Truck Load-Out

EU 008 Gyrotory Sifter System Phase II

EU 009 Conveyor System Phase II

SV 003 Gyrotory Sifter System/Conveyor System

SV 004 Rail Load-Out

SV 005 Truck Load-Out

SV 009 Gyrotory Sifter System/Conveyor System Phase II

What to do	Why to do it
OPERATIONAL REQUIREMENTS AND LIMITS	hdr
The requirements of this group apply individually to each associated item in this group.	Minn R. 7007.0800, subp. 2
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
Total Particulate Matter: less than or equal to 0.0020 grains/dry standard cubic foot using 3-hour Average period (this is more stringent than the industrial process equipment rule limit which also applies).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Total Particulate Matter: less than or equal to 0.37 lbs/hour using 3-hour Average	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.0020 grains/dry standard cubic foot using 3-hour Average period.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.37 lbs/hour using 3-hour Average	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.0020 grains/dry standard cubic foot using 3-hour Average period.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

PM < 2.5 micron: less than or equal to 0.37 lbs/hour using 3-hour Average	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
CONTROL EQUIPMENT (see each associated CE)	hdr
The Permittee shall vent emissions from this item to the control equipment meeting the requirements of each associated CE as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PERFORMANCE TESTING (see each associate SV)	hdr
To verify compliance with the emission limits, Performance testing on each EU must be performed such that no dilution air enters the process during testing; testing is to be representative of each EU alone. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subps. 2

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Subject Item: **GP 002 Storage Silos**

Associated Items:
CE 005 Other
CE 006 Other
CE 007 Other
CE 009 Other
CE 010 Other
CE 011 Other
CE 014 Other
CE 015 Other
CE 016 Other
CE 017 Other
CE 018 Other
CE 019 Other
EU 007 Storage Silo Elevator 1
EU 010 Storage Silo Elevator 2
EU 011 Storage Silo Elevator 3
EU 012 Storage Silo 1
EU 013 Storage Silo 2
EU 014 Storage Silo 3
EU 015 Storage Silo 4
EU 016 Storage Silo 5
EU 017 Storage Silo 6
EU 018 Storage Silo 7
EU 019 Storage Silo 8 Phase II
EU 020 Storage Silo 9 Phase II
EU 021 Storage Silo 10 Phase II
EU 022 Storage Silo 11 Phase II
EU 023 Storage Silo 12 Phase II
EU 024 Storage Silo 13 Phase II
EU 025 Storage Silo 14 Phase II
SV 006 Storage Silo Bin Vent 1
SV 007 Storage Silo Bin Vent 2
SV 008 Storage Silo Bin Vent 3
SV 010 Storage Silo Bin Vent 4 Phase II
SV 011 Storage Silo Bin Vent 5 Phase II
SV 012 Storage Silo Bin Vent 6 Phase II

What to do	Why to do it
OPERATIONAL REQUIREMENTS AND LIMITS	hdr
The requirements of this group apply individually to each associated item in this group.	Minn R. 7007.0800, subp. 2
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0715, subp. 1 (A)

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Opacity: less than or equal to 5 percent opacity (this is more stringent than the industrial process equipment rule limit which also applies).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B); Minn. R. 7011.0110
Visible Emissions (VE) Check: Once each day of operation, the Permittee shall observe the storage silos during the daylight hours to determine if there are any visible emissions. Once each week of operation, the Permittee shall inspect the top of the storage silos during the daylight hours to determine if there are any visible emissions.	Minn. R. 7007.0800, subp. 4
Recordkeeping: The Permittee shall keep a record of all VE checks, whether or not any VEs were observed, and of any corrective actions taken.	Minn. R. 7007.0800, subp. 5
CONTROL EQUIPMENT (see each associated CE)	hdr
The Permittee shall vent emissions from this item to the control equipment meeting the requirements of each associated CE as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PERFORMANCE TESTING (see each associated SV)	hdr
To verify compliance with the emission limits, Performance testing on each EU must be performed such that no dilution air enters the process during testing; testing is to be representative of each EU alone.	Minn. R. 7007.0800, subps. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **GP 003 Storage Piles**

Associated Items: FS 001 Raw material sand pile

FS 002 Raw material sand pile

FS 003 Raw material sand pile

What to do	Why to do it
OPERATIONAL REQUIREMENTS AND LIMITS	hdr
The requirements of this group apply individually to each associated item in this group.	Minn R. 7007.0800, subp. 2
The Permittee shall water the storage piles at the facility and maintain a moisture content of no less than 2.00% at all times for exposed storage pile surfaces. Watering shall comply with the following conditions: a. The water application rate shall be at least 0.1 gallon of water for each 1 square foot every 24 hours; not required when moisture content is demonstrated to be greater than or equal to 2.00%. b. A rainfall of at least 0.16 inches during the previous 24 hours shall substitute for one water application, unless the facility moisture content is rated as "dry." "Dry" is defined as having a moisture content less than 2.00%. c. If storage piles cannot be watered because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35 degrees F (1.7C), then watering shall be postponed and accomplished as soon as the conditions preventing water application have abated.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Daily Recordkeeping: The Permittee shall keep records of the water applications, including the following: a. The stock piles watered, the amount of water applied, the time watered, and the method of application. If water was not applied because there was a 0.16 inch or greater rainfall or because of the temperature, it must be noted in the record along with the source of measurement (i.e. on-site rain gauge or thermometer). b. Records of watering equipment breakdowns and repairs, and records of contingency efforts undertaken. c. Whether or not visible emissions were observed. If visible emissions are observed record the source of those emissions and the contingency efforts undertaken.	Minn. R. 7007.0800, subps. 4 & 5
Demonstrate the moisture content is greater than or equal to 2.00% by: 1. Test moisture content of each source (sampled at an area representative of the source and physically capable of being sampled), as follows: a. Use ASTM method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test daily, when operating, when temperature is greater than 35 degree F (1.7C).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
d. When testing indicates that the material moisture content is less than 2.00%, in situations where it is infeasible to sample and test, or where the Permittee elects not to sample and test, the Permittee shall operate a moisture addition device to achieve a moisture content greater than or equal to 2.00%. Moisture addition during operation shall continue until subsequent moisture content testing demonstrates that feed material moisture content is greater than or equal to 2.00%. Daily, when operating, either:	(continued) Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
i. Keep records of the date, water application rate, material processing rate, initials of the person making the record, and the time the record was made; or ii. Conduct moisture content testing on the material after water application, and if results show moisture content is less than 2.00%, increase water addition to insure moisture content is 2.00% or greater and re-test to verify.	(continued) Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
VISIBLE EMISSION REQUIREMENTS	hdr
Check for visible emissions (during daylight hours) once each calendar day.	Minn. R. 7007.0800, subp. 4
Corrective Actions: If visible emissions (VEs) are observed, determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2

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Recordkeeping: Record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, also record a brief description of the type of corrective actions taken, and the date the actions were taken. Maintain watering records for storage piles.	Minn. R. 7007.0800, subp. 5

Facility Name: Tiller - North Branch

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Subject Item: **GP 004 Fabric Filters**

Associated Items: CE 001 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 008 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 013 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see CE 001 through CE 004, CE 008, CE 012 and CE 013 for additional requirements)	hdr
The requirements of this group apply individually to each associated item in this group.	Minn R. 7007.0800, subp. 2
The Permittee shall comply with the requirements of CE 001-004, CE 008, CE 012 and CE 013 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop. The Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14

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Permit Number: 02500056 - 001

Subject Item: **SV 001 Sand Dryer**

Associated Items: EU 001 Sand Dryer

What to do	Why to do it
PERFORMANCE TESTING (refer to EU 001)	hdr
The permittee must comply with 40 CFR pt. 60 - Standards of Performance for New Stationary Sources Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries.	Minn R. 7007.0800, subp. 2
Particulate matter emission limits are based upon on a maximum air flow of 48,182 dscfm.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
When firing fuel oil	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	40 CFR Section 60.736(a) & (b); Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	40 CFR Section 60.736(a) & (b); Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure NOx emissions when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Carbon Monoxide emissions when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Volatile Organic Compounds when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Sulfur Dioxide emissions when firing diesel fuel. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
When firing natural gas	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	40 CFR Section 60.736(a) & (b); Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

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Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	40 CFR Section 60.736(a) & (b); Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure NOx emissions when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Carbon Monoxide emissions when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Volatile Organic Compounds when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Sulfur Dioxide emissions when firing natural gas. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 002 Generator**

Associated Items: EU 002 Generator (Tier 2 - 6.9 Mbtu/hr)

What to do	Why to do it
PERFORMANCE TESTING (refer to EU 002)	hdr
To verify compliance with the EU 002 emission limits, Performance testing on EU 002 must be performed such that no dilution air enters the process during testing; testing is to be representative of EU 002 alone.	40 CFR Section 60.736(a) & (b); Minn. R. 7007.0800, subps. 2
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	40 CFR Section 60.736(a) & (b); Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	40 CFR Section 60.736(a) & (b); Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure NOx emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Carbon Monoxide emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Volatile Organic Compounds. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Permit Issuance to measure Sulfur Dioxide emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 003 Gyrotory Sifter System/Conveyor System**

Associated Items: EU 003 Gyrotory Sifter System

EU 004 Conveyor System

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 001)	hdr
To verify compliance with the emission limits, Performance testing on the relevant emission units must be performed such that no dilution air enters the process during testing; testing is to be representative of the emission unit alone.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Particulate matter emission limits are based upon on a maximum air flow of 21,721 dscfm.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 004 Rail Load-Out**

Associated Items: EU 005 Rail Load-Out

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 001)	hdr
To verify compliance with the emission limits, Performance testing on the relevant emission units must be performed such that no dilution air enters the process during testing; testing is to be representative of the emission unit alone.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Particulate matter emission limits are based upon on a maximum air flow of 1,359 dscfm.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 005 Truck Load-Out**

Associated Items: EU 006 Truck Load-Out

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 001)	hdr
To verify compliance with the emission limits, Performance testing on the relevant emission units must be performed such that no dilution air enters the process during testing; testing is to be representative of the emission unit alone.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Particulate matter emission limits are based upon on a maximum air flow of 1,359 dscfm.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 006 Storage Silo Bin Vent 1**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 012 Storage Silo 1

EU 013 Storage Silo 2

EU 014 Storage Silo 3

GP 002 Storage Silos

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 002)	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Opacity.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 007 Storage Silo Bin Vent 2**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 015 Storage Silo 4

EU 016 Storage Silo 5

EU 017 Storage Silo 6

GP 002 Storage Silos

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 002)	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Opacity.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 008 Storage Silo Bin Vent 3**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 018 Storage Silo 7

GP 002 Storage Silos

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 002)	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Opacity.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 009 Gyrotory Sifter System/Conveyor System Phase II**

Associated Items: EU 008 Gyrotory Sifter System Phase II

EU 009 Conveyor System Phase II

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 001)	hdr
To verify compliance with the emission limits, Performance testing on the relevant emission units must be performed such that no dilution air enters the process during testing; testing is to be representative of the emission unit alone.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Particulate matter emission limits are based upon on a maximum air flow of 21,721 dscfm.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup to measure Total Particulate Matter. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM10 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits. The permittee shall submit emissions testing results that include PM4 emission information to assist in the development of emission factors for crystalline silica in the PM4 fraction.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure PM2.5 (including both filterable and back half condensables) emissions. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup to measure Opacity. During the test the permittee shall use the monitoring devices to determine the control equipment pressure drop range(s). The arithmetic averages of the three runs shall be used as the baseline average values for the limits.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 010 Storage Silo Bin Vent 4 Phase II**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 019 Storage Silo 8 Phase II

EU 020 Storage Silo 9 Phase II

EU 021 Storage Silo 10 Phase II

GP 002 Storage Silos

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 002)	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Opacity.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 011 Storage Silo Bin Vent 5 Phase II**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 022 Storage Silo 11 Phase II

EU 023 Storage Silo 12 Phase II

EU 024 Storage Silo 13 Phase II

GP 002 Storage Silos

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 002)	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Opacity.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **SV 012 Storage Silo Bin Vent 6 Phase II**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 025 Storage Silo 14 Phase II

GP 002 Storage Silos

What to do	Why to do it
PERFORMANCE TESTING (refer to GP 002)	hdr
Initial Performance Test: due 180 days after Initial Startup to measure Opacity.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **EU 001 Sand Dryer**

Associated Items: CE 001 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

SV 001 Sand Dryer

What to do	Why to do it
OPERATIONAL REQUIREMENTS AND LIMITS	hdr
The permittee must comply with 40 CFR pt. 60 - Standards of Performance for New Stationary Sources Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries.	40 CFR pt. 60, subp. UUU
Particulate matter emission limits are based upon on a maximum air flow of 60,000 acfm.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Fuel type: Natural gas and No. 2 fuel oil only by design.	Minn. R. 7007.0800, subp. 2
Opacity: less than or equal to 10 percent opacity	40 CFR Section 60.732(b)
Limits when firing fuel oil	hdr
Total Particulate Matter: less than or equal to 0.0090 grains/dry standard cubic foot using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Total Particulate Matter: less than or equal to 3.72 lbs/hour using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.0090 grains/dry standard cubic foot using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 3.72 lbs/hour using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.0090 grains/dry standard cubic foot using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 3.72 lbs/hour using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Nitrogen Oxides: less than or equal to 11.36 lbs/hour using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Nitrogen Oxides: less than or equal to 0.16 lbs/million Btu heat input using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: less than or equal to 21.30 lbs/hour using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: less than or equal to 0.30 lbs/million Btu heat input using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Volatile Organic Compounds: less than or equal to 0.10 lbs/hour using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Volatile Organic Compounds: less than or equal to 0.0014 lbs/million Btu heat input using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Sulfur Dioxide: less than or equal to 0.11 lbs/hour using 3-hour Rolling Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Sulfur Dioxide: less than or equal to 0.0015 lbs/million Btu heat input using 3-hour Average period of exhaust gas when firing diesel fuel.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Limits when firing natural gas	hdr
Total Particulate Matter: less than or equal to 0.0065 grains/dry standard cubic foot using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

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Total Particulate Matter: less than or equal to 2.68 lbs/hour using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.0065 grains/dry standard cubic foot using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 2.68 lbs/hour using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.0065 grains/dry standard cubic foot using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 2.68 lbs/hour using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Nitrogen Oxides: less than or equal to 5.68 lbs/hour using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Nitrogen Oxides: less than or equal to 0.080 lbs/million Btu heat input using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: less than or equal to 17.75 lbs/hour using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: less than or equal to 0.25 lbs/million Btu heat input using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Volatile Organic Compounds: less than or equal to 0.38 lbs/hour using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

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Volatile Organic Compounds: less than or equal to 0.0054 lbs/million Btu heat input using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Sulfur Dioxide: less than or equal to 0.040 lbs/hour using 3-hour Rolling Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Sulfur Dioxide: less than or equal to 0.00058 lbs/million Btu heat input using 3-hour Average period of exhaust gas when firing natural gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
MONITORING	hdr
The owner or operator of an industrial sand rotary dryer who uses a dry control device is exempt from the monitoring requirements of 40 CFR Section 60.734.	40 CFR Section 60.734(c)
RECORDKEEPING AND REPORTING	hdr
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, inspect the control equipment components. Maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5, & 14
Corrective Actions: Take corrective action as soon as possible if any of the following occur: - The recorded pressure drop is outside the required operating range; or - The control device(s) or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O&M Plan. Keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subps. 4, 5, & 14
Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of No. 2 fuel oil, certifying that the sulfur content does not exceed 0.0015% by weight.	Minn. R. 7007.0800, subps. 4 & 5
The Permittee shall keep records of fuel type and usage on a monthly basis.	Minn. R. 7007.0800, subp. 5
CONTROL EQUIPMENT - see also CE 001	hdr
The Permittee shall vent emissions from this item to the control equipment meeting the requirements of CE 001 as specified in this permit	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PERFORMANCE TESTING (see SV 001)	hdr
To verify compliance with the EU 001 emission limits, Performance testing on EU 001 must be performed such that no dilution air enters the process during testing; testing is to be representative of EU 001 alone.	Minn. R. 7007.0800, subps. 2
NEW SOURCE PERFORMANCE STANDARDS - General Provisions	hdr
Notification of Anticipated Date for Conducting Opacity Observations: due 30 day prior to observation date.	40 CFR Section 60.7(a)(6); Minn. R. 7019.0100, subp. 1
Recordkeeping: Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility including; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b), Minn. R. 7019.0100, subp. 1
Opacity Compliance: Demonstrate compliance with opacity standards using Reference Method 9.	40 CFR Section 60.11; Minn. R. 7017.2015

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **EU 002 Generator (Tier 2 - 6.9 Mbtu/hr)**

Associated Items: SV 002 Generator

What to do	Why to do it
OPERATIONAL REQUIREMENTS AND LIMITS	hdr
EU 002 is a new affected source as defined under 40 CFR pt. 63, subp. ZZZZ, and the facility is an area source as defined at 40 CFR Section 63.2, and EU 002 is a non-emergency CI ICE with a displacement less than 30 liters per cylinder (kW>560). The Permittee shall meet the requirements of 40 CFR pt. 63, subp. ZZZZ by meeting the requirements of 40 CFR pt. 60, subp. IIII. No further requirements of 40 CFR pt. 63, subp. ZZZZ apply to EU 002.	40 CFR Section 63.6590(c); Minn. R. 7011.8150
The Permittee must operate and maintain the engine according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine. The Permittee may only change those settings that are permitted by the manufacturer. The Permittee must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable.	40 CFR Section 60.4206; 40 CFR Section 60.4211(a); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
The Permittee shall operate and maintain the unit in accordance with the standards as required by 40 CFR 60.4204 or 40 CFR 60.4205, according to the manufacturer's written instructions, or according to procedures developed by the owner or operator that are approved by the engine manufacturer, for the entire life of the engine. Settings for the units may not be changed unless permitted by the manufacturer.	40 CFR 60.4209;40 CFR 60.4211(a); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
NMHC+NOx: less than or equal to 4.8 grams/horsepower-hour (6.4 g/kW-hr).	40 CFR 60.4204(b) & 4201(b); 40 CFR 89.112(a); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Carbon Monoxide: less than or equal to 2.6 grams/horsepower-hour (3.5 g/kW-hr).	40 CFR 60.4204(b) & 4201(b); 40 CFR 89.112(a); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Total Particulate Matter: less than or equal to 0.15 grams/horsepower-hour (0.20 g/kW-hr).	40 CFR 60.4204(b) & 4201(b); 40 CFR 89.112(a); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Operating Hours: less than or equal to 600 hours/year using 365-day Rolling Sum to be calculated by the end of each day.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must purchase the EU 002 engine as certified to meet the emission standards of 40 CFR 60.4204(b). The engine must be installed and configured according to the manufacturer's specifications.	40 CFR 60.4211(c); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Total Particulate Matter: less than or equal to 0.021 grams/horsepower-hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Total Particulate Matter: less than or equal to 0.050 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.021 grams/horsepower-hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

PM < 10 micron: less than or equal to 0.050 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.021 grams/horsepower-hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.050 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Nitrogen Oxides: less than or equal to 5.25 grams/horsepower-hour using 3-hour Average period.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Nitrogen Oxides: less than or equal to 13.2 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: less than or equal to 0.25 grams/horsepower-hour using 3-hour Average period.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: less than or equal to 0.63 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Volatile Organic Compounds: less than or equal to 0.030 grams/horsepower-hour using 3-hour Average period.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Volatile Organic Compounds: less than or equal to 0.075 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Sulfur Dioxide: less than or equal to 0.50 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2; 40 CFR Section 63.6590(c); Minn. R. 7011.8150

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Sulfur Dioxide: less than or equal to 0.014 lbs/hour using 3-hour Average period (of exhaust gas).	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Fuel type: No. 2 fuel oil only by design.	Minn. R. 7005.0100, subp. 35a; Minn. R. 7007.0800, subp. 2; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Sulfur Content of Fuel: less than or equal to 15 parts per million	40 CFR 60.4207(b); 40 CFR 80.510(b); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Fuel Type: Diesel fuel must meet the requirements of 40 CFR 80.510(b), which requires that diesel fuel have a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.	40 CFR 60.4207(b); 40 CFR 80.510(b); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
MONITORING, RECORDKEEPING AND REPORTING	hdr
Visible Emissions (VE) Check: Once each day of Generator unit operation, the Permittee shall observe the generator stack/vent during the daylight hours to determine if there are any visible emissions.	Minn. R. 7007.0800, subp. 4; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Daily Recordkeeping - Operating Hours. By the end of each operating day, calculat and record the following: 1. The total operating hours for that calendar day; 2. The total operating hours for the previous 364 days; and 3. The total operating hours for the 365 day rolling sum.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must keep records of the following information: - All notifications submitted to comply with Subpart IIII and all documentation supporting any notification; - Maintenance conducted on the engine; and - Documentation from the engine manufacturer that the engine is certified to meet the emission standards.	40 CFR 60.4214(a)(2); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Recordkeeping: The Permittee shall keep a record of all VE checks, whether or not any VEs were observed, and of any corrective actions taken.	Minn. R. 7007.0800, subp. 5; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Recordkeeping: The Permittee shall keep a daily log noting if the generator operated that day, and if so, the number of hours of operation	Minn. R. 7007.0800, subp. 5; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of No. 2 fuel oil, certifying that the sulfur content does not exceed 0.0015% by weight.	Minn. R. 7007.0800, subps. 4 & 5; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
The Permittee shall keep records of fuel type and usage on a monthly basis.	Minn. R. 7007.0800, subp. 5; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
The Permittee shall keep records of the following information: (i) All notifications submitted to comply with this subpart and all documentation supporting any notification. (ii) Maintenance conducted on the engine. (iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards. (iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.	40 CFR Section 60.4214(a)(2); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
If the stationary CI internal combustion engine is equipped with a diesel particulate filter to comply with the emission standards in 40 CFR Section 60.4204, the Permittee must keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached.	40 CFR Section 60.4214(c); Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
The notification must include the following information: (i) Name and address of the Permittee; (ii) The address of the affected source; (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; (iv) Emission control equipment; and (v) Fuel used.	40 CFR Section 60.4214(a)(1); 40 CFR Section 60.7(a)(1) Minn. R. 7011.3520; 40 CFR Section 63.6590(c); Minn. R. 7011.8150

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PERFORMANCE TESTING (see SV 002)	hdr
To verify compliance with the EU 002 emission limits, Performance testing on EU 002 must be performed such that no dilution air enters the process during testing; testing is to be representative of EU 002 alone.	Minn. R. 7007.0800, subps. 2
NEW SOURCE PERFORMANCE STANDARDS - General Provisions	hdr
Notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR Section 60.14(e).	40 CFR Section 60.7(a)(4); Minn. R. 7019.0100, subp. 1; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Notification of Anticipated Date for Conducting Opacity Observations: due 30 day prior to observation date	40 CFR Section 60.7(a)(6); Minn. R. 7019.0100, subp. 1; 40 CFR Section 63.6590(c); Minn. R. 7011.8150; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
If an owner or operator of an existing facility proposes to replace components, and the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, he shall notify the Administrator of the proposed replacements.	40 CFR Section 60.15(d); Minn. R. 7011.0050; 40 CFR 60.7(a), Minn. R. 7007.0800, subp. 2, Minn. R. 7011.3350; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Recordkeeping: Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility including; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR 60.7(b), Minn. R. 7019.0100, subp. 1; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Recordkeeping: Maintain a file of all measurements, maintenance, reports and records for at least five years. 40 CFR Section 60.7(f) specifies two years.	Minn. R. 7007.0800, subp. 5(C); meets requirements of 40 CFR Section 60.7(f); Minn. R. 7019.0100, subp. 1; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Opacity Compliance: When measuring opacity to demonstrate compliance with opacity standards, using use Reference Method 9.	40 CFR Section 60.11; Minn. R. 7017.2015; 40 CFR Section 63.6590(c); Minn. R. 7011.8150
No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard.	40 CFR Section 60.12; Minn. R. 7011.0050; 40 CFR Section 63.6590(c); Minn. R. 7011.8150

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 001 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F**

Associated Items: EU 001 Sand Dryer

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99.5 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 99.5 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 99.5 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 003 Gyrotory Sifter System

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 95 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 90 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 005 Rail Load-Out

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 79 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 72 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 006 Truck Load-Out

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 79 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 72 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 005 Other**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 012 Storage Silo 1

EU 013 Storage Silo 2

EU 014 Storage Silo 3

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 005 requirements are related to the silo loading operation but is the same piece of equipment as CE 009; CE 009 requirements are related to the silo unloading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 82 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 87 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 006 Other**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 015 Storage Silo 4

EU 016 Storage Silo 5

EU 017 Storage Silo 6

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 006 requirements are related to the silo loading operation but is the same piece of equipment as CE 010; CE 010 requirements are related to the silo unloading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 82 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 87 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 007 Other**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 018 Storage Silo 7

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 007 requirements are related to the silo loading operation but is the same piece of equipment as CE 011; CE 011 requirements are related to the silo unloading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 82 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 87 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 008 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 008 Gyrotory Sifter System Phase II

GP 001 Non-combustion Equipment not Subject to NSPS (Sifter System Conveyor System, Rail and Truck Load-Out)

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 95 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 99 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 009 Other**

Associated Items: EU 012 Storage Silo 1

EU 013 Storage Silo 2

EU 014 Storage Silo 3

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 009 requirements are related to the silo unloading operation but is the same piece of equipment as CE 005; CE 005 requirements are related to the silo loading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 77.6 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 010 Other**

Associated Items: EU 015 Storage Silo 4

EU 016 Storage Silo 5

EU 017 Storage Silo 6

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 010 requirements are related to the silo unloading operation but is the same piece of equipment as CE 006; CE 006 requirements are related to the silo loading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 77.6 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 011 Other**

Associated Items: EU 018 Storage Silo 7

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 011 requirements are related to the silo unloading operation but is the same piece of equipment as CE 007; CE 007 requirements are related to the silo loading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 77.6 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 004 Conveyor System

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 79 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 72 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 013 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 009 Conveyor System Phase II

GP 004 Fabric Filters

What to do	Why to do it
OPERATIONAL REQUIREMENTS (see GP 004 for additional requirements)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 79 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 72 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subps. 4, 5, & 14; Minn. R. 7017.2025, subp. 3
RE-SETTING OF PRESSURE DROP RANGE LIMIT	hdr
Protocol for Re-Setting the Pressure Drop Range Limit: The Permittee shall conduct performance testing to measure the PM/PM10/PM2.5 emission rate as required elsewhere in this permit. If the established Pressure Drop Range Limit is to be re-set, the re-set shall be based on the pressure drop values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. During the performance test, the Permittee must continuously monitor the pressure drop. The Permittee shall calculate the average pressure drop based on the average exhibited over all three compliant test runs. Downtime of 15 minutes or more is not to be included as operating time.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
Protocol for Re-Setting the Pressure Drop Range Limit, continued, The established Pressure Drop Range Limit shall be re-set as follows: - if the 3-hr average pressure drop recorded during the test is within the established range, it shall not be re-set and the established values remain the Pressure Drop Range Limit; - if the 3-hr average pressure drop is outside the range specified above, the range limit shall be re-set based upon the minimum and maximum pressure drop values exhibited during the performance test. The new minimum value for the range limit shall be half the lowest recorded reading and the new maximum value for the range limit shall be two times the highest recorded value. The new Pressure Drop Range Limit shall be effective upon receipt of the Notice of Compliance letter that approves the test results and shall be incorporated into the permit when the permit is next amended.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 and Minn. R.
The Permittee must apply for and obtain a major permit amendment if the Permittee wishes to deviate from the Protocol for Re-setting the Pressure Drop Range Limit required by this permit.	Minn. R. 7007.1500, subp. 1
Notwithstanding the Protocol detailed above, the MPCA reserves the right to set operational limits and requirements as allowed under Minn. R. 7017.2025. If the MPCA sets limits, the new limits shall be implemented upon receipt of the Notice of Compliance letter that notifies the Permittee of preliminary approval. The limits set according to Minn. R. 7017.2025 are final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 014 Other**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 019 Storage Silo 8 Phase II

EU 020 Storage Silo 9 Phase II

EU 021 Storage Silo 10 Phase II

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 014 requirements are related to the silo loading operation but is the same piece of equipment as CE 017; CE 017 requirements are related to the silo unloading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 82 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 87 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 015 Other**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 022 Storage Silo 11 Phase II

EU 023 Storage Silo 12 Phase II

EU 024 Storage Silo 13 Phase II

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 015 requirements are related to the silo loading operation but is the same piece of equipment as CE 018; CE 018 requirements are related to the silo unloading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 82 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 87 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 016 Other**

Associated Items: EU 007 Storage Silo Elevator 1

EU 010 Storage Silo Elevator 2

EU 011 Storage Silo Elevator 3

EU 025 Storage Silo 14 Phase II

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 016 requirements are related to the silo loading operation but is the same piece of equipment as CE 019; CE 019 requirements are related to the silo unloading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 82 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 87 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 76 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 017 Other**

Associated Items: EU 019 Storage Silo 8 Phase II

EU 020 Storage Silo 9 Phase II

EU 021 Storage Silo 10 Phase II

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 017 requirements are related to the silo unloading operation but is the same piece of equipment as CE 014; CE 014 requirements are related to the silo loading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 77.6 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 018 Other**

Associated Items: EU 022 Storage Silo 11 Phase II

EU 023 Storage Silo 12 Phase II

EU 024 Storage Silo 13 Phase II

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 018 requirements are related to the silo unloading operation but is the same piece of equipment as CE 015; CE 015 requirements are related to the silo loading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 77.6 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: **CE 019 Other**

Associated Items: EU 025 Storage Silo 14 Phase II

GP 002 Storage Silos

What to do	Why to do it
OPERATIONAL REQUIREMENTS (CE 019 requirements are related to the silo unloading operation but is the same piece of equipment as CE 016; CE 016 requirements are related to the silo loading operation.)	hdr
The Permittee shall meet the requirements of GP 004 as specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 78.4 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 77.6 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21, Minn. R. 7007.3000 and 40 CFR Section 70.2 and Minn. R. 7007.0200; 40 CFR Section 52.21(j) through (r)(5); 40 U.S.C section 7475(a); Minn. Stat. 116.081, subdivision 1; Minn. R. 7007.0150, Subp. 1; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Subject Item: FS 005 Paved Haul Road Emissions

What to do	Why to do it
Daily Inspection and Recordkeeping: On each day of operation, the Permittee shall visually inspect all paved surfaces to minimize or eliminate fugitive emissions. The facility shall maintain records of this inspection that include the date of the inspection, whether fugitive dust was observed, what corrective actions were taken, when the corrective actions were taken, and whether the corrective actions eliminated the fugitive dust.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2
Anytime fugitive emissions are observed on facility roadways, the Permittee shall immediately eliminate fugitive emissions by sweeping those road segments and/or apply water or a chemical dust suppressant.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2
Facility-Wide Speed Limit: Vehicle Traffic speeds shall not exceed 15 mph on all facility roads or parking surfaces. The Permittee shall post the speed limit in a highly visible location near the facility entrance.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2

TABLE B: SUBMITTALS

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:
- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

Send any application for a permit or permit amendment to:

Fiscal Services
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

What to send	When to send	Portion of Facility Affected
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup	EU001, EU002, Total Facility
Notification of the Date Construction Began	due 30 days after Start Of Construction (or reconstruction). Submit the name and number of each unit and the date construction of each unit began.	EU002, Total Facility
Notification of the Date Construction Began	due 60 days after Start Of Construction (or as soon as practicable). Submit the information specified in 40 CFR Section 60.15(d)(1) through (7).	EU001
Testing Frequency Plan	due 60 days after Initial Performance Test for Opacity. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV003, SV004, SV005, SV009
Testing Frequency Plan	due 60 days after Initial Performance Test for PM10 (including back half condensables). The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV003, SV004, SV005, SV009
Testing Frequency Plan	due 60 days after Initial Performance Test for PM2.5. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV003, SV004, SV005, SV009
Testing Frequency Plan	due 60 days after Initial Performance Test for Total Particulate Matter. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV003, SV004, SV005, SV009
Testing Frequency Plan	due 60 days after Initial Performance Test for Carbon Monoxide emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Carbon Monoxide emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Carbon Monoxide. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Testing Frequency Plan	due 60 days after Initial Performance Test for Nitrogen Oxides (when firing diesel fuel). The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002
Testing Frequency Plan	due 60 days after Initial Performance Test for NOx emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for NOx emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Opacity emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Opacity emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Opacity. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV006, SV007, SV008, SV010, SV011, SV012
Testing Frequency Plan	due 60 days after Initial Performance Test for PM 2.5 emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for PM 2.5 emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001

Testing Frequency Plan	due 60 days after Initial Performance Test for PM10 (including back half condensables). The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002
Testing Frequency Plan	due 60 days after Initial Performance Test for PM10 emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for PM10 emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for PM2.5. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002
Testing Frequency Plan	due 60 days after Initial Performance Test for Sulfur Dioxide emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Sulfur Dioxide emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Sulfur Dioxide. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002
Testing Frequency Plan	due 60 days after Initial Performance Test for Total Particulate Matter emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Total Particulate Matter emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

Testing Frequency Plan	due 60 days after Initial Performance Test for Total Particulate Matter. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002
Testing Frequency Plan	due 60 days after Initial Performance Test for Volatile Organic Compound emissions when firing diesel fuel. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Volatile Organic Compound emissions when firing natural gas. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV001
Testing Frequency Plan	due 60 days after Initial Performance Test for Volatile Organic Compounds. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12 month, 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV002

TABLE B: RECURRENT SUBMITTALS

Facility Name: Tiller - North Branch

Permit Number: 02500056 - 001

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year following Permit Issuance (for the previous calendar year). The Permittee shall submit this to the Commissioner on a form approved by the Commissioner. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL
Facility Name: Tiller - North Branch
Permit Number: 02500056-001

I. **Insignificant Activities and Applicable Requirements**

Minn. R. 7007.1300, subpart	**Rule Description of the Activity**	**Applicable Requirement**
3(B)	Furnaces, boilers, and incinerators:	
	2. fuel burning equipment with a capacity less than 420,000 Btu/hour, but only if the total combined capacity of all fuel burning equipment at the stationary source with a capacity less than 420,000 Btu/hour is less than or equal to 1,400,000 Btu/hour. *Tiller's current total capacity is approximately 90,000 Btu/hr.*	Minn. R. 7011.0515
3(H)	Miscellaneous:	
	3. brazing, soldering or welding equipment; *Tiller will bring portable welding equipment on site for use in repairs as needed.*	Minn. R. 7011.0715
3(K)	Infrequent use of spray paint equipment for routine housekeeping or plant upkeep activities not associated with primary production processes at the stationary source, such as spray painting of buildings, machinery, vehicles, and other supporting equipment. *Tiller will conduct touch up spray paint activities with aerosol spray paint cans as needed.*	Minn. R. 7011.0715

II. Fugitive Dust Control Plan

October 24, 2012

Tiller Corporation

North Branch Facility Fugitive Dust Control Plan

North Branch, MN

SUNDE ENGINEERING, PLLC.
10830 Nesbitt Avenue South
Bloomington, MN 55437-3100
Phone: (952) 881-3344
Fax: (952) 881-1913

Dust Control Plan

Introduction

Tiller Corporation ("Tiller") submitted an Individual State Air Permit Application and supplemental air permit application materials to the Minnesota Pollution Control Agency on April 4, 2012 and September 27, 2012, respectively, for the construction and operation of an industrial sand processing facility located in North Branch, Minnesota ("North Branch Facility").

The following dust control plan for the North Branch Facility (Plan) has been prepared to prevent or reduce potential impacts to air quality resulting from fugitive dust associated with the facility. The Plan identifies several mitigation measures which will be implemented at the facility voluntarily to eliminate or reduce fugitive dust emissions. Fugitive emissions from the proposed source include particulate matter emissions associated with the storage and handling of industrial sand and vehicle traffic.

Tiller will demonstrate compliance with its obligations to minimize fugitive dust through regular observations of its equipment and outdoor assets for fugitive dust conditions and recordkeeping of reasonable mitigation measures that Tiller undertakes.

Facility Description

The proposed North Branch Facility will produce industrial sand for use in various industries. Washed sand is brought onsite by truck, unloaded and conveyed to onsite storage piles. A conveying system transports the sand from the onsite piles to the sand dryer to remove the free moisture. Once the sand is dried, it is conveyed to rotary screens (i.e., gyrotory sifters) that separate the sand into various sizes for end use applications. The sorted sand is then transferred through the conveying system to the appropriate storage silo and shipped offsite either via truck or rail. A majority of the product is shipped offsite via rail. The North Branch Facility operates year round and typical operations are expected to be twenty-four hours per day, seven days per week with the exception of trucking operations which are generally expected to be twelve hours per day, six days per week with occasional overnight operations as needed.

Sand Storage Areas:

Tiller proposes to operate two outdoor sand storage areas and one indoor storage area at the North Branch Facility (Figure 1). Washed sand is brought onsite by truck, unloaded and conveyed to either the indoor storage area or one of the two outdoor sand storage areas. The washed sand contains free moisture content of 2.0% or greater. This moisture is present in the raw material and additional moisture is acquired during the washing process. The moisture helps control fugitive dust emissions associated with unloading activities, wind erosion of pile surfaces and load out from the piles. However, during extended dry periods,

this may not be sufficient to adequately control fugitive dust. Stockpiled material will be analyzed for moisture content on a weekly basis. In the event of an extended dry period when the analysis shows inadequate moisture content, (less than 2.0%), water will be applied to the storage piles to achieve the desired moisture content or additional material containing adequate moisture will be added to the surface of the stockpiles. A number of different wet suppression systems may be used to apply water and include but are not limited to: a water cannon, water truck with a water gun and/or an irrigation system.

In place of increasing the stockpile moisture content described above, commercially available and approved dust suppressants (encrusting agents) may be applied.

Moisture addition or application of dust suppressants will take place as needed during times of non-freezing temperatures to control fugitive dust at the sand storage areas. Tiller will perform visible observations at least once daily, using USEPA Method 22 Visual Determination of Fugitive Emissions, to verify that visible emissions are at or below a frequency of 10%. Visible emissions over 10% will trigger additional watering or application of dust suppressants to the piles. Existing berms located along the west perimeter of the facility further act to reduce emissions by trapping/containing a portion of the fugitive dust emissions within the facility.

Non-Process Dust Control / Water Application / Fugitive Dust Observation:
The following items will be completed when applying water or commercially available dust suppressant at the sand storage areas (items 1-5) and as part of Tiller's non-process dust control measures (items 6, 7 and 8).

1. Record date and time of action and initials of person making the record.

2. Record amount of water or dust suppressant applied.

3. If a commercially available dust suppressant is used, it shall be applied in accordance with the manufacturer's guidelines. The Permittee must keep a copy of these manufacturer's guidelines.

4. Record the location (e.g., site sketch) of water or dust suppressant application.

5. Install a rain gauge at the site and record the precipitation in the previous 24 hours for each day of operation at the site.

6. Record and maintain daily results of USEPA Method 22 Visual Determinations.

7. Make and record basic weather observations according to the MPCA Weather Summary Criteria that best characterize each operating day.

8. Equipment to apply water or dust suppressant shall always be available at the site or on call for use at the site within a given operating day.

Material Handling and Transfer:

Material handling and transfer operations with the potential to generate fugitive dust emissions include transfer of sand via the front-end loaders and the conveyance of sand from one piece of equipment to the next (conveyors, belts, feeders, etc.). The material transfer prior to the dry-processing of the material will occur on covered conveyors. Due to the moisture content of the washed sand (2.0% or greater), fugitive dust emissions from the transfer points are anticipated to be minimal based on information outlined in AP-42 Chapter 11.19.1 regarding the processing of wet sand. The dried material will be transferred on covered conveyors and drop points will be hooded with negative air pressure. Negative air pressure and/or hood construction will be modified if visible emissions are observed from the material handling and transfer operations.

On-Site Vehicle Traffic:

The following best management practices (BMPs) will be implemented to help prevent fugitive dust from vehicular travel:

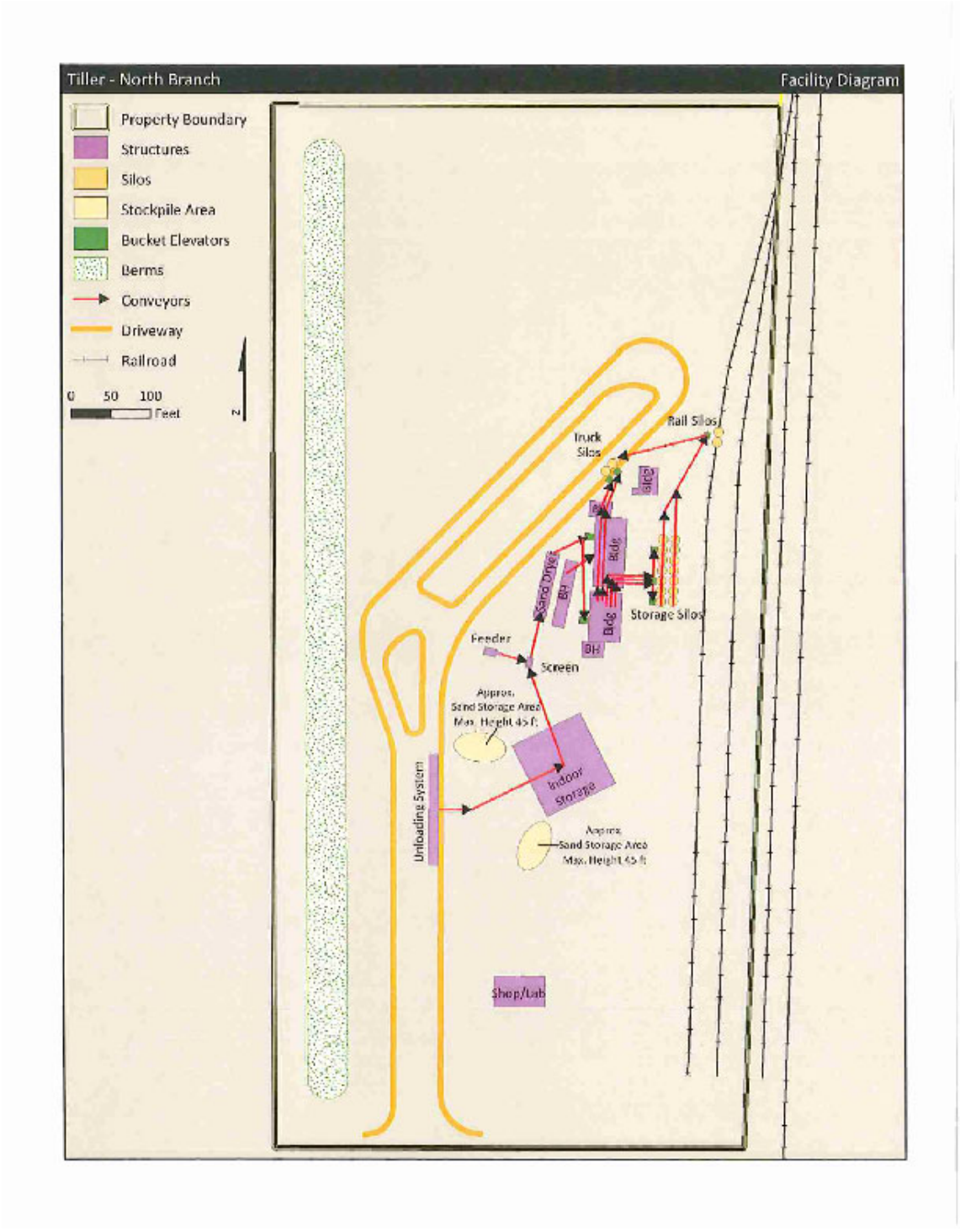
1. *Paving*: The entrance and all internal roads accommodating truck traffic will be hard surfaced (i.e., paved).

2. *Sweeping:* The facility entrance and internal roads will be swept weekly or more frequently as needed with a regenerative air suction sweeper to remove accumulated sediments.

3. *Hauling:* All sand being delivered to the site will be in enclosed trailers and sand leaving the site will be in enclosed trailers and/or enclosed rail cars. This will reduce the potential for fugitive emissions from hauling operations.

4. *Vehicle Speed:* Travel speeds throughout the facility will be limited to 15 mph or less. This will contribute to the reduction of fugitive dust emissions and ensure safe operations.

Figure 1


Tiller - North Branch
Facility Diagram
Property Boundary
Structures
Silos
Stockpile Area
Bucket Elevators
Berms
Conveyors
Driveway
Railroad
0 50 100
Feet
N
Truck Silos
Rail Silos
Silo
BH
Bldg
Sand Dryer
Storage Silos
Feeder
Screen
Approx. Sand Storage Area Max. Height 45 ft.
Indoor Storage
Unloading System
Approx. Sand Storage Area Max. Height 45 ft
Shop/Lab