MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

April 8, 2024

PERMIT TO INSTALL 124-14A

ISSUED TO Viterra USA Grain, LLC

LOCATED AT

3274 Carrollton Road Carrollton, Michigan 48724

IN THE COUNTY OF

Saginaw

STATE REGISTRATION NUMBER B7117

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:

March 6, 2024

DATE PERMIT TO INSTALL APPROVED: April 8, 2024	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS	2
POLLUTANT / MEASUREMENT ABBREVIATIONS	3
GENERAL CONDITIONS	4
EMISSION UNIT SPECIAL CONDITIONS	6
EMISSION UNIT SUMMARY TABLE	6
EU-GALLERYBELT	7
EU-BASEMENTBELT	9
EU-TRKREC/UNLOAD	11
APPENDIX A: Fugitive Emissions Control Plan	13

COMMON ACRONYMS

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO ₂ e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NOx	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
μg	Microgram
μm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

- 1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))
- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
- 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). (R 336.1301)
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). (**R 336.1370**)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. (R 336.2001)

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Flexible Group ID
EU-GALLERYBELT	Gallery belt grain handling system equipped with a baghouse for control.	NA
EU-BASEMENTBELT	Basement belt grain handling system equipped with a baghouse for control.	NA
EU-TRKREC/UNLOAD	Truck receiving/unloading grain handling system with a baghouse for control.	NA

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

EU-GALLERYBELT EMISSION UNIT CONDITIONS

DESCRIPTION

Gallery belt grain handling system.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.01 grain/dry standard cubic foot	At least 60 minutes and 60 dscf	EU-GALLERYBELT	GC 13	R 336.1331, 40 CFR 60.302(b)(1)

 Visible emissions from EU-GALLERYBELT shall not exceed a six-minute average of 0 percent opacity. (R336.1301), (40 CFR 60.302(b)(2)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall comply with all provisions of Section 5524 of Part 55 of 1994 PA 451 as they apply to EU-GALLERYBELT. (Act 451 324.5524)
- The permittee shall not operate EU-GALLERYBELT unless a malfunction abatement plan (MAP) as described in Rule 911(2), for grain handling, has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1331, R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EU-GALLERYBELT unless the baghouse is installed and operating in a satisfactory manner. (R 336.1331, R 336.1910)
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor the pressure drop across the baghouse dust collector on a continuous basis. Satisfactory operation of the baghouse includes, but is not limited to, maintaining a pressure drop as specified in the MAP specified in SC III.2. (R 336.1331, R 336.1910)

V. TESTING/SAMPLING

1. NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1331, R 336.1910)
- 2. The permittee shall record, in a satisfactory manner, the pressure drop across the baghouse dust collector on a daily basis. (R 336.1910)

VII. <u>REPORTING</u>

1. NA

VIII. STACK/VENT RESTRICTION(S)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-GALLERY	30	110	40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart DD (Standards of Performance for Grain Elevators) as they apply to EU-GALLERYBELT. (40 CFR Part 60 Subpart DD)

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EU-BASEMENTBELT EMISSION UNIT CONDITIONS

DESCRIPTION

Basement belt grain handling system

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.01 grain/dry standard cubic foot	At least 60 minutes and 60 DSCF	EU-BASEMENTBELT	GC 13	R 336.1331, 40 CFR 60.302(b)(1)

 Visible emissions from EU-BASEMENTBELT shall not exceed a six-minute average of 0 percent opacity. (R 336.1301), (40 CFR 60.302(b)(2)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall comply with all provisions of Section 5524 of Part 55 of 1994 PA 451 as they apply to EU-BASEMENTBELT. (Act 451 324.5524)
- 2. The permittee shall not operate EU-BASEMENTBELT unless a malfunction abatement plan (MAP) as described in Rule 911(2), for grain handling, has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1331, R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EU-BASEMENTBELT unless the baghouse is installed and operating in a satisfactory manner. (R 336.1331, R 336.1910)
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor the pressure drop across the baghouse dust collector on a continuous basis. Satisfactory operation of the baghouse includes, but is not limited to, maintaining a pressure drop as specified in the MAP specified in SC III.2. (R 336.1331, R 336.1910)

V. TESTING/SAMPLING

1. NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1331, R 336.1910)
- 2. The permittee shall record, in a satisfactory manner, the pressure drop across the baghouse dust collector on a daily basis. (R 336.1910)

VII. <u>REPORTING</u>

1. NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-BASEMENT	29 x 39	115	40 CFR 52.21(c)&(d)
2. SV-GALLERY	30	110	40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart DD (Standards of Performance for Grain Elevators) as they apply to EU-GALLERYBELT. (40 CFR Part 60 Subpart DD)

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EU-TRKREC/UNLOAD EMISSION UNIT CONDITIONS

DESCRIPTION

Truck and rail receiving/unloading grain handling system

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.01 grain/dry standard cubic foot		EU-TRKRÉC/UNLOAD		R 336.1331, 40 CFR 60.302(b)(1)

- 2. Visible emissions from the EU-TRKREC/UNLOAD grain handling operations shall not exceed a six-minute average of 0 percent opacity. (R 336.1301, 40 CFR 60.302(b)(2))
- 3. Visible emissions from the EU-TRKREC/UNLOAD truck unloading stations shall not exceed a six-minute average of 5 percent opacity. (R 336.1301, 40 CFR 60.302(c)(1))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate EU-TRKREC/UNLOAD unless the program for continuous fugitive emissions control for all plant roadways, the plant year, all material storage piles, and all material handling operations specified in Appendix A has been implemented and is maintained. (R 336.1301)
- 2. During truck loading and unloading operations, at least one door on the truck receiving pit shall be kept closed. (R 336.1301)
- **3.** The permittee shall not operate EU-TRKREC/UNLOAD unless a malfunction abatement plan (MAP) as described in Rule 911(2), for grain handling, has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1331, R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate the truck receiving/unloading grain handling system unless the baghouse is installed and operating in a satisfactory manner. (R 336.1331, R 336.1910)
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor the pressure drop across the baghouse dust collector on a continuous basis. Satisfactory operation of the baghouse includes, but is not limited to, maintaining a pressure drop as specified in the MAP specified in SC III.3. (R 336.1331, R 336.1910)

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall keep a written log of the number of grain trucks dumped daily. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.301)**
- 2. The permittee shall record, in a satisfactory manner, the pressure drop across the baghouse dust collector on a daily basis. (R 336.1910)

VII. <u>REPORTING</u>

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVTRKREC/UNLOAD	48x105	60	40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX A: Fugitive Emissions Control Plan

- 1. Clean paved areas with a vacuum type sweeper once a month during July, August, September, October, and November, or more frequently if needed. Paved areas will be swept again in a given week where the average trucks dumped per day exceeds 100 trucks per day within a calendar week.
- 2. Spray unpaved areas where truck traffic is prevalent one time per year, during the period of mid-August to mid-September. The areas to be sprayed with Calcium Chloride are the parking area next to the Carrollton Hardware, the truck dump turnaround, the area next to the main office, and the area behind the new silos.

Also, truck traffic will be eliminated with barricades behind the main office, and additionally grass will be grown in the open space between the main line railroad track and the track 1 railroad track. All areas will be sprayed with the Calcium Chloride at the rate of 860 gallons per acre.

3. Truck parking will be eliminated next to the Carrollton Hardware unpaved area during the months of July, August, and September.