

Synthetic Minor Determination and/or **Netting Determination**

Permit To Install **03-13900**

A. Source Description

This permit is for the installation of a portable aggregate processing plant including a 285 kW/hr diesel fired generator. This permit also includes a portable 420 HP diesel fired engine, not associated with the aggregate processing plant.

B. Facility Emissions and Attainment Status

The facility has requested a synthetic minor to lower the potential emissions of nitrogen oxide to 12.08 tons per rolling 12-month period per combustion source, based on a fuel restriction.

C. Source Emissions

K-West Group has requested a federally enforceable restriction of 40,000 gallons of diesel fuel per year. This will limit the emissions from each combustion source to the following allowable: 12.08 TPY NO_x, 0.85 TPY PE, 2.60 TPY CO, 0.96 TPY VOC, and 0.79 TPY SO₂

D. Conclusion

Without federally enforceable NO_x restrictions in place, these emission units are below major source thresholds for Title V. However, these emission units are portable sources, so the permittee requested federally enforceable restrictions on NO_x to avoid future Title V and PSD applicability based on future relocation of the emission units.



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.
Center

**RE: DRAFT PERMIT TO INSTALL
FULTON COUNTY**

CERTIFIED MAIL

Application No: 03-13900

DATE: 12/31/2002

Kwest Group
Mark Murray
1613 S. Defiance St.
Archbold, OH 43502

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$2600** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

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STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 03-13900

Application Number: 03-13900
APS Premise Number: 0326000086
Permit Fee: **To be entered upon final issuance**
Name of Facility: Kwest Group
Person to Contact: Mark Murray
Address: 1613 S. Defiance St.
Archbold, OH 43502

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1613 S. Defiance St.
Archbold, Ohio**

Description of proposed emissions unit(s):
Installation of a portable crusher, engine and generator.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

Kwest Group

Facility ID: 0326000086

PTI Application: 03-13900

Issued: To be entered upon final issuance

information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may

Kwest Group

PTI Application: 03-13900

Issued: To be entered upon final issuance

lead to such sanctions

Facility ID: 0326000086

Kwest Group

Facility ID: 0326000086

PTI Application: 03-13900

Issued: To be entered upon final issuance

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete

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Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	24.16
PE	7.10
CO	5.20
	1.92
VOC	1.58
SO2	

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PTI Application: 03-13900

Issued: To be entered upon final issuance

Facility ID: 0326000086

Kwest

PTI A

Emissions Unit ID: F001

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
		OAC rule 3745-17-07(B)
		OAC rule 3745-17-08(B)
F001 - Aggregate Storage Piles,	OAC rule 3745-31-05(A)(3)	
load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	
		OAC rule 3745-17-07(B)
		OAC rule 3745-17-08(B)
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	

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PTI A

Issued: To be entered upon final issuance

Emissions Unit ID: **F001**

Applicable Emissions
Limitations/Control Measures

1.57 TPY fugitive particulate emissions (PE)

No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b, A.2.c and A.2.f)

See A.2.g

See A.2.g

No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.d through A.2.f)

See A.2.g

See A.2.g

2. Additional Terms and Conditions

- 2.a** The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:
- i. 3 - 5 aggregate products storage piles
 - ii. 4 concrete storage piles
 - iii. 3 - 5 recycled asphalt storage piles
- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to reduction of drop heights to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measures shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintenance of as low a pile height as possible to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measures shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

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- 2.g The storage piles are associated with the portable crushing system permitted under facility ID 0326000086, P901. The emission limitation of 1.57 TPY fugitive PE represent the maximum emissions which will be emitted from the storage piles for any proposed site for relocation of the portable crushing system.

The storage piles are associated with a portable source and are applicable to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>Storage Pile Identification</u>	<u>Minimum Load-In Inspection Frequency</u>
All Storage Piles	Once during each day of operation

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>Storage Pile identification</u>	<u>Minimum Load-Out Inspection Frequency</u>
All Storage Piles	Once during each day of operation

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

Storage Pile Identification
All Storage Piles

Minimum Wind Erosion Inspection Frequency
Once during each day of operation

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

Kwest

PTI A

Emissions Unit ID: **F001**

Issued: To be entered upon final issuance

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

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PTI A

Emissions Unit ID: F001

Issued: To be entered upon final issuance

- a. Emission Limitation: 1.57 ton fugitive PE/yr

Applicable Compliance Method: The emission limitation was established by combining the emissions from load-in and load-out operations and from wind erosion from each storage pile as listed in the permittee's application and applying a 50% control efficiency for use of best available control measures. Load-in and load-out operation emissions are based on a maximum load-in and load-out rate of 1,000,000 tons per year of product. Wind erosion emissions are based on a maximum storage pile surface area of 15 acres as listed in the permit application:

The emission rate was determined as follows:

- i. Load-in - emissions associated with load-in operations were established by multiplying the maximum load-in rate of 1,000,000 tons of product per year by the appropriate emission factor from AP-42 section 13.2.4.3 (1/95) [0.00146 lb PE/ton product], applying a 50% control efficiency and dividing by 2000 lbs/ton. (0.365 ton fugitive PE/yr)
- ii. Load-out - emissions associated with load-out operations were established by multiplying the maximum load-out rate of 1,000,000 tons of product per year by the appropriate emission factor from AP-42 section 13.2.4.3 (1/95) [0.00146 lb PE/ton product], applying a 50% control efficiency and dividing by 2000 lbs/ton. (0.365 ton fugitive PE/yr)
- iii. Wind erosion - emissions were established by multiplying a maximum combined storage pile surface area of 15 acres for product, the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (9/88) [1.54 lbs PE/day/acre of product], a maximum operating schedule of 365 days per year and dividing by 2000 and applying a 80% control efficiency. (0.84 ton PE/yr)

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

- b. Emission Limitation: No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period from load-in and load-out of the storage piles

Applicable Compliance Method: Compliance with the visible emission limitations for the

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PTI A

Issued

Facility ID: 0326000086

Emissions Unit ID: **F001**

storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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PTI A

Emissions Unit ID: **F001**

Issued: To be entered upon final issuance

- c. Emission Limitation: No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period from wind erosion

Applicable Compliance Method: Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

Kwest

PTI A

Emissions Unit ID: F002

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Unpaved Roadways	OAC rule 3745-31-05(A)(3)	1.88 TPY fugitive particulate emissions (PE)
		There shall be no visible particulate emissions from any unpaved roadway except for a period of time not to exceed three minutes during any 60-minute observation period.
		Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b through A.2.g)
	OAC rule 3745-17-07(B)	See A.2.h
	OAC rule 3745-17-08(B)	See A.2.h

2. Additional Terms and Conditions

- 2.a The unpaved roadways that are covered by this permit and subject to the above-mentioned requirements are listed below:

Unpaved Roadways:
All Unpaved Roadways

Issued: To be entered upon final issuance

- 2.b** The permittee shall employ best available control measures on all unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with speed reduction, good housekeeping practices and watering, if possible at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for an unpaved roadway that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** Any unpaved roadway, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.e** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- 2.h** The unpaved roadways are associated with the portable crushing system permitted under facility ID 0326000086, P901. The emission limitation of 1.88 TPY fugitive PE

Emissions Unit ID: **F002**

represents the maximum emissions which will be emitted from the unpaved roadways for any proposed site for relocation of the portable crushing system.

The roadways are associated with a portable source and are applicable to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07 (B) and OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the unpaved roadways in accordance with the following frequencies:

<u>Unpaved Roadways</u>	<u>Minimum Inspection Frequency</u>
All	Once during each day of operation

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

Kwest

PTI A

Emissions Unit ID: F002

Issued: To be entered upon final issuance

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 1.88 TPY fugitive PE for unpaved roadways

Applicable Compliance Method: This emission limitation was developed by applying a 80% control efficiency to a maximum potential uncontrolled emission rate of 9.4 TPY fugitive PE. The maximum potential uncontrolled emission rate was calculated using AP-42 emission factors from Chapter 13.2.2 (9/98) and a maximum 6833 vehicle miles traveled. Compliance shall be demonstrated through the monitoring and recordkeeping requirements in Section C of this permit.
 - b. Emission Limitation: There shall be no visible particulate emissions from any unpaved roadway except for a period of time not to exceed three minutes during any 60-minute observation period.

Applicable Compliance Method: Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

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PTI A

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None

Emissions Unit ID: **F002**

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PTI A

Emissions Unit ID: P001

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-07(A)
P001 - 285 kW (1.37 mmBtu/hr) diesel fired portable generator.	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(a)
		OAC rule 3745-18-06(G)
		OAC rule 3745-23-06
	OAC rule 3745-31-05(D)	

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PTI A

Emissions Unit ID: **P001**

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See A.2.f.

Applicable Emissions
Limitations/Control Measures

6.04 lbs nitrogen oxides (NO_x)/hr

0.42 lbs particulate emissions
(PE)/hr
& 0.85 tons PE/yr

1.30 lbs carbon monoxide (CO)/hr
&
2.60 tons CO/yr

0.48 lbs/hr volatile organic
compounds (VOC), 0.96 tons
VOC/yr

0.40 lbs sulfur dioxide (SO₂)/hr
0.79 tons SO₂/yr

Visible PE shall not exceed 10%
opacity as a 6-minute average,
except during start-up and
shutdown

See A.2.a.

See B.1.

12.08 tons NO_x per rolling
12-month period, see A.2.b.

See A.2.c.

See A.2.d.

See A.2.e.

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PTI A

Emissions Unit ID: P001

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2. Additional Terms and Conditions

- 2.a The requirements of this rule also include compliance with OAC rule 3745-31-05(D).
- 2.b The permittee has requested a federally enforceable limitation of 12.08 tons of NOx per rolling 12-month period based on a fuel usage restriction (See section B.2.) for purposes of limiting potential to emit to avoid possible future Title V and PSD applicability associated with the relocation of a portable source.
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.d The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- 2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

B. Operational Restrictions

- 1. The permittee shall only burn low sulfur diesel fuel, containing less than 0.5% sulfur by weight, in this emissions unit.
- 2. The maximum annual fuel usage for emissions unit P001 shall not exceed 40,000 gallons of diesel per year, based upon a rolling 12-month summation of the fuel usage. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Fuel Usage</u>
1	5,000
1-2	10,000
1-3	15,000
1-4	20,000

Emissions Unit ID: **P001**

1-5	25,000
1-6	30,000
1-12	40,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual fuel usage limitation shall be based upon a rolling, 12-month summation of the fuel usage.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. fuel usage each month, in gallons;
 - b. during the first 12 calendar months of operation, the cumulative fuel usage, in gallons;
 - c. beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the fuel usage, in gallons;
 - d. the calculated monthly emission rate for NOx using the following equation:
$$\text{NOx emissions in tons} = (\text{fuel usage}) \times (\text{potential NOx emissions})$$
$$= (\text{C.1.a}) \times (.137 \text{ mmBtu/gal})(4.41 \text{ lbs NOx/mmBtu})(\text{tons}/2000 \text{ lbs})$$
 - e. beginning the first month after the 12 calendar months of operation, the rolling, 12-month summation of the emission rate for NOx, in tons.
2. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. The permittee shall maintain documentation on the sulfur content of all fuels received.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify the following exceedances:
 - a. the rolling, 12-month fuel usage limitation;
 - b. the rolling, 12-month NOx emissions; and

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PTI A

Emissions Unit ID: P001

Issued: To be entered upon final issuance

- c. for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation.
- d. sulfur content fuel restriction described in condition B.1.

These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.

- 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

- 1. Compliance with the emissions limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation: 6.04 lbs NO_x/hr & 12.08 tons NO_x per rolling 12-month period.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 4.41 lb NO_x/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.37 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 7 of 40 CFR Part 60, Appendix A.

Compliance with the NO_x per rolling 12-month period shall be demonstrated by the recordkeeping requirements in section C.1.

- b. Emission Limitation: 0.42 lb PE/hr, 0.85 TPY PE

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.31 lb PE/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.37 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual annual fuel usage by 0.137 mmBtu/gal, multiplied by 0.31 lb PE/mmBTU, and then

dividing by 2000.

- c. Emission Limitation: 1.30 lb CO/hr, 2.60 TPY CO

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.95 lb CO/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.37 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 10 of 40 CFR Part 60, Appendix A.

Kwest

PTI A

Emissions Unit ID: P001

Issued: To be entered upon final issuance

Compliance with the annual limitation shall be determined by multiplying the actual annual fuel usage by 0.137 mmBtu/gal, multiplied by 0.95 lb CO/mmBTU, and then dividing by 2000.

- d. Emission Limitation: 0.48 lb VOC/hr, 0.96 TPY VOC

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.35 lb VOC/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.37 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 18, 25, 25a of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual annual fuel usage by 0.137 mmBtu/gal, multiplied by 0.35 lb VOC/mmBTU, and then dividing by 2000.

- e. Emission Limitation: 0.40 lb SO₂/hr, 0.79 TPY SO₂

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.29 lb SO₂/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.37 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 6 of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual annual fuel usage by 0.137 mmBtu/gal, multiplied by 0.29 lb SO₂/mmBTU, and then dividing by 2000.

- f. Emission Limitation: Visible PE shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a

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PTI A

Emissions Unit ID: **P001**

Issued: To be entered upon final issuance

portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

Kwest

PTI A

Emissions Unit ID: **P001**

Issued: To be entered upon final issuance

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - b. the portable emissions unit is operating pursuant to a currently effective permit to install, permit to operate or registration;
 - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Northwest District Office (NWDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,
 - d. in the NWDO's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
- a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - b. the portable emissions unit is equipped with best available technology;
 - c. the portable emission unit owner has identified the proposed site to Ohio EPA;
 - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
 - f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and,
 - g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to section F.2. above, shall be valid for no longer than three years and are subject to renewal.

3. In order for the NWDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the NWDO (347 North Dunbridge Road, Bowling Green, OH 43402) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the NWDO and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.
4. The permittee should be advised that when portable emission units are located at a stationary source or at a source comprised of portable emission units, potential emissions from the portable emission units are included in the facility potential to emit calculations for Title V applicability.

The permittee shall include a potential to emit analysis of facility-wide emissions (including the portable sources) for the proposed relocation in the "Notice of Intent to Relocate".

5. The following terms and conditions are federally enforceable: A.1, B.2, C.1, D.1, E.1.a.

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PTI A

Emissions Unit ID: P901

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P901 - 312 tons per hour portable crushing system and associated material handling.	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-31-05(D)
	OAC rule 3745-17-07(B)
	OAC rule 3745-17-07(A)
	OAC rule 3745-17-11(B)(5)(a)
1.644 mmBTU/hr diesel fired engine (420 HP)	40 CFR, Part 60, Subpart OOO
	OAC rule 3745-18-06(G)
	OAC rule 3745-23-06
	OAC rule 3745-31-05(A)(3)

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PTI A

Emissions Unit ID: **P901**

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<u>Applicable Emissions Limitations/Control Measures</u>	
1.95 TPY fugitive particulate emissions (PE)	See A.2.i
20% opacity, as a 3-minute average for front-end loader dumping into feeder	12.08 tons NOx per rolling 12-month period, see A.2.j
Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a through A.2.c)	See A.2.k See A.2.l See A.2.m See A.2.n
See A.2.d	
See A.2.e	
See A.2.e	
Visible Emission Restrictions (see A.2.f & A.2.g)	
7.25 lbs nitrogen oxides (NOx)/hr	
0.51 lb PE/hr, 0.85 TPY PE	
1.56 lbs carbon monoxide (CO)/hr, 2.60 TPY CO	
0.58 lb volatile organic compounds (VOC)/hr, 0.96 TPY VOC	
0.48 lb sulfur dioxide (SO ₂)/hr, 0.79 TPY SO ₂	

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2. Additional Terms and Conditions

2.a The permittee shall employ best available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

<u>material handling operation</u>	<u>control measure(s)</u>
loading and unloading	reduced drop height
transfer points	wet suppression
primary crushing and screening	water sprays

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.b For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.

2.c Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

2.d The requirements of this rule also include compliance with OAC rule 3745-17-07(B), OAC rule 3745-17-08(B) and CFR 40 Part 60, Subpart OOO.

2.e This emissions unit is a portable source and is applicable to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07(B) and 3745-17-08(B) are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05 and NSPS Subpart OOO.

Emissions Unit ID: **P901**

When the emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08, this emission unit is exempt from the requirements of OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A) and is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-07(B)(11)(e).

- 2.f** Visible emissions from the material processing equipment when processing concrete materials shall not exceed the following opacity restrictions:

Emissions Point (Company ID)	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
front-end loader to feeder	transfer point	20% as a 3-minute average	OAC rule 3745-31-05
feeder to conveyor 1	transfer point	5%	OAC rule 3745-31-05
conveyor 1 to screen	transfer point	5%	OAC rule 3745-31-05
screen	screen	5%	OAC rule 3745-31-05
screen to conveyor 2	transfer point	5%	OAC rule 3745-31-05
conveyor 2 to conveyor 3	transfer point	5%	OAC rule 3745-31-05
conveyor 3 to conveyor 4	transfer point	5%	OAC rule 3745-31-05
conveyor 4 to conveyor 5	transfer point	5%	OAC rule 3745-31-05
screen to conveyor 8	transfer point	5%	OAC rule 3745-31-05
conveyor 8 to conveyor 9	transfer point	5%	OAC rule 3745-31-05
conveyor 9 to conveyor 10	transfer point	5%	OAC rule 3745-31-05
conveyor 10 to conveyor 11	transfer point	5%	OAC rule 3745-31-05
conveyor 11 to conveyor 12	transfer point	5%	OAC rule 3745-31-05
screen to primary crusher	transfer point	5%	OAC rule 3745-31-05
primary crushing	crusher	15%	NSPS, Subpart OOO
primary crusher to conveyor 6	transfer point	5%	OAC rule 3745-31-05
conveyor 6 to conveyor 7	transfer point	5%	OAC rule 3745-31-05
conveyor 7 to screen	transfer point	5%	OAC rule 3745-31-05

Kwest

PTI A

Emissions Unit ID: P901

Issued: To be entered upon final issuance

conveyor 5 to storage pile	transfer point	no visible emissions for a period of time not to exceed one minute during and 60-minute observation point	OAC rule 3745-31-05
conveyor 12 to storage pile	transfer point	no visible emissions for a period of time not to exceed one minute during and 60-minute observation point	OAC rule 3745-31-05

2.g Visible emissions from the material processing equipment when processing non-concrete material shall not exceed the following opacity restrictions:

Emissions Point (Company ID)	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
front-end loader to feeder	transfer point	20% as a 3-minute average	OAC rule 3745-31-05
feeder to conveyor 1	transfer point	10%	OAC rule 3745-31-05
conveyor 1 to screen	transfer point	10%	OAC rule 3745-31-05
screen	screen	10%	OAC rule 3745-31-05
screen to conveyor 2	transfer point	10%	OAC rule 3745-31-05
conveyor 2 to conveyor 3	transfer point	10%	OAC rule 3745-31-05
conveyor 3 to conveyor 4	transfer point	10%	OAC rule 3745-31-05
conveyor 4 to conveyor 5	transfer point	10%	OAC rule 3745-31-05
screen to conveyor 8	transfer point	10%	OAC rule 3745-31-05
conveyor 8 to conveyor 9	transfer point	10%	OAC rule 3745-31-05
conveyor 9 to conveyor 10	transfer point	10%	OAC rule 3745-31-05
conveyor 10 to conveyor 11	transfer point	10%	OAC rule 3745-31-05
conveyor 11 to conveyor 12	transfer point	10%	OAC rule 3745-31-05
screen to primary crusher	transfer point	10%	OAC rule 3745-31-05
primary crushing	crusher	15%	NSPS, Subpart OOO

primary crusher to conveyor 6	transfer point	10%	OAC rule 3745-31-05
conveyor 6 to conveyor 7	transfer point	10%	OAC rule 3745-31-05
conveyor 7 to screen	transfer point	10%	OAC rule 3745-31-05
conveyor 5 to storage pile	transfer point	no visible emissions for a period of time not to exceed one minute during and 60-minute observation point	OAC rule 3745-31-05
conveyor 12 to storage pile	transfer point	no visible emissions for a period of time not to exceed one minute during and 60-minute observation point	OAC rule 3745-31-05

- 2.h** The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.
- 2.i** The requirements of this rule also include compliance with OAC rule 3745-31-05(D).
- 2.j** The permittee has requested a federally enforceable limitation of 12.08 tons of NOx per rolling 12-month period based on a fuel usage restriction (See section B.3.) for purposes of limiting potential to emit to avoid possible future Title V and PSD applicability associated with the relocation of a portable source.
- 2.k** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.l** The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.m** This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- 2.n** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in

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PTI A

Emissions Unit ID: P901

Issued: To be entered upon final issuance

this Permit to Install.

B. Operational Restrictions

1. The maximum annual material throughput for this emissions unit shall not exceed 1,000,000 tons. This restriction is based on the material throughput of the feeder.
2. The permittee shall only burn low sulfur diesel fuel, containing less than 0.5% sulfur by weight, in this engine.
3. The maximum annual fuel usage for the engine shall not exceed 40,000 gallons of diesel per year, based upon a rolling 12-month summation of the fuel usage. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Fuel Usage</u>
1	5,000
1-2	10,000
1-3	15,000
1-4	20,000
1-5	25,000
1-6	30,000
1-12	40,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual fuel usage limitation shall be based upon a rolling, 12-month summation of the fuel usage.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the amount (tons per month and total tons, to date, for the calendar year) of material processed through the feeder of this emissions unit
2. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Material Handling Operations</u>	<u>Minimum Inspection Frequency</u>
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6. The permittee shall maintain monthly records of the following information for engine:
 - a. fuel usage each month, in gallons;
 - b. during the first 12 calendar months of operation, the cumulative fuel usage, in gallons;
 - c. beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the fuel usage, in gallons;
 - d. the calculated monthly emission rate for NOx using the following equation:
$$\text{NOx emissions in tons} = (\text{fuel usage}) \times (\text{potential NOx emissions})$$
$$= (\text{C.6.a}) \times (.137 \text{ mmBtu/gal})(4.41 \text{ lbs NOx/mmBtu})(\text{tons}/2000 \text{ lbs})$$
 - e. beginning the first month after the 12 calendar months of operation, the rolling, 12-month summation of the emission rate for NOx, in tons.
7. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
8. The permittee shall maintain documentation on the sulfur content of all fuels received.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The permittee shall submit deviation (excursion) reports which identify the following exceedances:
 - a. the rolling, 12-month fuel usage limitation;
 - b. the rolling, 12-month NOx emissions; and
 - c. for the first 12 calendar months of operation following the issuance of this permit, all

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PTI A

Emissions Unit ID: **P901**

Issued: To be entered upon final issuance

exceedances of the maximum allowable cumulative hours of operation.

- d. sulfur content fuel restriction described in condition B.2.

These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.

- 3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 4. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR, Part 60, Subpart OOO, including the reports of opacity observations using Method 9 to demonstrate compliance with this subpart.
- 5. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
 - a. for a crusher, grinding mill, bucket elevator, bagging operations, or enclosed truck or railcar loading station:
 - i. the rated capacity, in tons per hour, of the existing facility being replaced, and
 - ii. the rated capacity, in tons per hour, of the replacement equipment;
 - b. for a conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt; and

The notification shall be submitted within 30 days of after the equipment replacement.

- 6. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
 - a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

and Ohio EPA, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for all transfer points, screens and crushers of emissions unit P901.
2. Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.
3. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.
4. The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:
 - a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.
5. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.

Kwest

PTI A

Emissions Unit ID: **P901**

Issued: To be entered upon final issuance

6. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and /or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.
7. Compliance with the emissions limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation: 1.95 TPY fugitive PE

Applicable Compliance Method: To demonstrate compliance with the annual limitation, the following equation shall be used: Total Emissions = S unloading* + crushing** + screening*** + transfer points****

Kwest

PTI A

Emissions Unit ID: P901

Issued: To be entered upon final issuance

*Unloading: For unloading, multiply the AP-42 emission factor of 0.000016 lb PE/ton (Section 11.19.2 - 1/95) by the maximum annual throughput of 1,000,000 tons and divide by 2000.

**Crushing: For the crusher, multiply the AP-42 emission factor of 0.00059 lb PE/ton (Section 11.19.2 - 1/95) by the maximum annual throughput of 1,000,000 tons and divide by 2000.

***Screening: For the screener, multiply the AP-42 emission factor of 0.00084 lb PE/ton (Section 11.19.2 - 1/95) by the maximum annual throughput of 1,000,000 tons and divide by 2000.

****Transfer Points: For each transfer point, multiply the AP-42 emission factor of 0.000048 lb PE/ton (Section 11.19.2 - 9/95) by the maximum annual throughput of 1,000,000 tons and divide by 2000.

- b. Emission Limitation: 20% opacity, as a 3-minute average for front-end loader dumping into feeder.

Applicable Compliance Method: Compliance shall be demonstrated using test method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60, "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 1996, with the modifications in paragraphs (a) and (b) of OAC rule 3745-17-03 (B)(3).

- c. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.

Applicable Compliance Method: Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections E.1 through E.6 above.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen, when non-concrete material is processed, any fugitive emissions which exhibit greater than 10% opacity.

Applicable Compliance Method: Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections E.1 through E.6 above.

- e. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen, when concrete material is processed, any fugitive emissions which exhibit greater than 5% opacity.

Applicable Compliance Method: Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections E.1 through E.6 above.

- f. Emission Limitation: No visible emissions except for a period of time not to exceed one minute during any 60-minute observation period of the transfer of material from conveyors to storage piles.

Applicable Compliance Method: Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g. Emission Limitation: 7.25 lbs NO_x/hr & 12.08 tons NO_x per rolling 12-month period.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 4.41 lb NO_x/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.644 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 7 of 40 CFR Part 60, Appendix A.

Compliance with the NO_x per rolling 12-month period shall be demonstrated by the recordkeeping requirements in section C.6.

- h. Emission Limitation: 0.51 lb PE/hr, 0.85 TPY PE

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.31 lb PE/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.644 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual fuel

Kwest

PTI A

Emissions Unit ID: P901

Issued: To be entered upon final issuance

usage by 0.137 mmBtu/gal, multiplied by 0.31 lb PE/mmBTU, and then dividing by 2000.

- i. Emission Limitation: 1.56 lb CO/hr, 2.60 TPY CO

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.95 lb CO/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.644 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 10 of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual fuel usage by 0.137 mmBtu/gal, multiplied by 0.95 lb CO/mmBTU, and then dividing by 2000.

- j. Emission Limitation: 0.58 lb VOC/hr, 0.96 TPY VOC

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.35 lb VOC/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.644 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 18, 25, 25a of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual fuel usage by 0.137 mmBtu/gal, multiplied by 0.35 lb VOC/mmBTU, and then dividing by 2000.

- k. Emission Limitation: 0.48 lb SO₂/hr, 0.79 TPY SO₂

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.29 lb SO₂/mmBTU AP-42, Table 3.3-1 (revised 10/96) by the maximum heat input of 1.644 mmBTU/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 6 of 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be determined by multiplying the actual fuel usage by 0.137 mmBtu/gal, multiplied by 0.29 lb SO₂/mmBTU, and then dividing

by 2000.

1. Emission Limitation: Visible PE shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:
 - a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - b. the portable emissions unit is operating pursuant to a currently effective permit to install, permit to operate or registration;
 - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Northwest District Office (NWDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,
 - d. in the NWDO's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
 - a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - b. the portable emissions unit is equipped with best available technology;
 - c. the portable emission unit owner has identified the proposed site to Ohio EPA;
 - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

Kwest

PTI A

Emissions Unit ID: **P901**

Issued: To be entered upon final issuance

- e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and,
- g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to section F.2. above, shall be valid for no longer than three years and are subject to renewal.

- 3. In order for the NWDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the NWDO (347 North Dunbridge Road, Bowling Green, OH 43402) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the NWDO and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria. The "Notice of Intent to Relocate" shall also include any other associated emission units, such as storage piles, roadways, and the engine.
- 4. The permittee should be advised that when portable emission units are located at a stationary source or at a source comprised of portable emission units, potential emissions from the portable emission units are included in the facility potential to emit calculations for Title V applicability.

The permittee shall include a potential to emit analysis of facility-wide emissions (including the portable sources) for the proposed relocation in the "Notice of Intent to Relocate".

- 5. The following terms and conditions are federally enforceable: A.1, B.3, C.6, D.2, E.7.g.

NEW SC

PTI Num

FACILITY

Emissions Unit ID: **P901**

FACILITY DESCRIPTION Portable Crushing Plant 7934, which includes an engine and a generator.

CITY/TWP Port Clinton

SIC CODE 1422 SCC CODE 3-05-999-99 EMISSIONS UNIT ID P901

EMISSIONS UNIT DESCRIPTION Aggregate processing plant with primary crushing, screening, conveying, material handling operations, and a 420 HP engine

DATE INSTALLED 9/02

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment	0.51 lb/hr	2.80	0.51 lb/hr	2.80
PM ₁₀					
Sulfur Dioxide	Attainment	0.48 lb/hr	0.79	0.48 lb/hr	0.79
Organic Compounds	Attainment	0.58 lb/hr	0.96	0.58 lb/hr	0.96
Nitrogen Oxides	Attainment	7.25 lbs/hr	12.08	7.25 lbs/hr	12.08
Carbon Monoxide	Attainment	1.56 lbs/hr	2.60	1.56 lbs/hr	2.60
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No

NESHAP? Part 60, Subpart

PSD? No

OFFSET POLICY? No

OOO

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Compliance with the terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS: