



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
DELAWARE COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-08308

DATE: 7/3/2001

Quality Carriers Inc
Jim Rakitsky
150 East Pennsylvania Drive Suite 125
Dowingtown, PA 19335

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

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.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 7/3/2001
Effective Date: 7/3/2001**

FINAL PERMIT TO INSTALL 01-08308

Application Number: 01-08308
APS Premise Number: 0121010237
Permit Fee: **\$600**
Name of Facility: Quality Carriers Inc
Person to Contact: Jim Rakitsky
Address: 150 East Pennsylvania Drive Suite 125
Dowington, PA 19335

Location of proposed air contaminant source(s) [emissions unit(s)]:
**South Houk Rd and Pittsburgh Dr
Delaware, Ohio**

Description of proposed emissions unit(s):
Cargo tank cleaning building.

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 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 lead to such sanctions 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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

Quality Carriers Inc
 PTI Application: 01-08308
 Issued: 7/3/2001

Facility ID: 0121010237

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>
VOC	9.0

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>
P001 - Wash Bay Number One	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 30 lbs/hr.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-21-07(B)</p>
	OAC rule 3745-31-05(D)	See A.2.a below.
	OAC rule 3745-21-07(B)	<p>Fugitive VOC emissions shall be minimized by use of the latest available control techniques and operating practices in accordance with best current technology when draining residual product from the tanks.</p> <p>See II.B.2- II.B.3 below.</p>

2. Additional Terms and Conditions

- 2.a VOC emissions from emission units P001, P002 and P003 combined shall not exceed 9.0 tons per cumulative rolling, 12-month period.
- 2.b The 30 pounds per hour VOC limitation for this emissions unit was established to reflect

Quality Carriers Inc
PTI Application: 01 00200
Issued

Facility ID: 0121010237

Emissions Unit ID: **P001**

the maximum hourly potential to emit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this term.

B. Operational Restrictions

1. The emissions of VOC from emissions units P001, P002 and P003 combined shall not exceed 9.0 tons per cumulative rolling, 12-month period.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table.

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Emissions of VOC (Tons)</u>
1	0.75
1-2	1.5
1-3	2.25
1-4	3
1-5	3.75
1-6	4.5
1-7	5.25
1-8	6
1-9	6.75
1-10	7.5
1-11	8.25
1-12	9

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual emission limitation for VOC shall be based upon a cumulative rolling, 12 month summation of the monthly emissions.

Tanks shall be empty of all residual product in excess of normal adhesion to the tank wall before cleaning begins.

2. Residual product drained from the tank shall be stored in air tight containers.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for the tanks cleaned at the facility:
 - a. the company identification of the last transported product in each tank to be cleaned;

- b. the constituents of each product;
- c. the volume of each tank cleaned;
- d. the number of tanks cleaned;
- e. the volumetric capacity of tanks that received a presolve wash;
- f. the VOC emissions from the presolve cleaning;
- g. the VOC emissions from the P001, P002 and P003 combined (lb/month); and
- h. the VOC emissions from P001, P002 and P003 added to the previous 11 months.

D. Reporting Requirements

The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12 month emission limitation for VOC and, for the first 12 calendar months of operation following the installation of this facility, all exceedances of the maximum allowable cumulative emission levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

E. Testing Requirements

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

- a. Emissions Limitation:
Volatile organic carbon (VOC) emissions shall not exceed 30.0 lbs/hour.

Applicable Compliance Method:

Compliance with this emission limit shall be demonstrated by multiplying the maximum number of tanks cleaned in an hour (3) by the pounds of VOC per tank cleaned of the product with the highest VOC emissions (9.67 lbs VOC/tank) added to the maximum pounds of VOC per tank cleaned with presolve rinse (0.30 lbs VOC/tank cleaned with presolve cleaner) multiplied by the maximum number of tanks cleaned in an hour (3).

VOC hourly emissions= 9.67lbs VOC/tank * 3 tanks/hr + 0.30 lbs VOC/tank * 3 tanks/hr
VOC hourly emissions= 30.0 lbs/hr

- b. Emissions Limitation:
VOC emissions shall not exceed 9.0 tons per cumulative rolling 12 month period.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by summing the monthly VOC emissions released from the tanks and the monthly VOC emissions from the presolve cleaning process [T + PCE] per rolling 12 month period, using the following equations.

Tank Emissions (T)

Monthly tank VOC emissions (T): Sum of the monthly VOC emissions from each product cleaned $[\sum P_1 + P_2 + \dots + P_n]$

Product VOC emissions (P): Sum of the VOC emissions from the constituents of each product calculated monthly $[\sum C_1 + C_2 + \dots + C_n]$

Constituent VOC emissions (C): $[\% \text{ VOC} * \text{Molecular Weight (lb/lbmol)} * \text{Vapor Pressure (mmHg)} / \text{Temperature (K)} * \text{Gas Constant R (mmHg} * \text{ft}^3 / \text{K} * \text{lbmol)}] * \text{total volume of tanks cleaned containing that product each month (ft}^3/\text{month)}$

Presolve Cleaning Emissions (PCE)

VOC emissions from presolve cleaning should be calculated by multiplying the vapor pressure of the presolve solvent (0.88 mmHg) by the sum of the tank volume cleaned each month (ft³) by the molecular weight of the presolve cleaning material (118.175 lb/ lbmol). This figure should be divided by the gas constant R (998.9 mmHg * ft³ / K * lbmol) multiplied by the temperature (298 K).

PCE= Presolve Cleaning Emissions (lb VOC /month)

PCE= $[0.88 \text{ mmHg} * \text{sum of the tank volume cleaned each month- ft}^3/\text{month} * 118.175 \text{ lb/lbmol}] / [(998.9 \text{ mmHg} * \text{ft}_3 / \text{K} * \text{lbmol}) (298 \text{ K})]$

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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>
P002 - Wash Bay Number Two	OAC rule 3745-31-05(A)(3) OAC rule 3745-31-05(D) OAC rule 3745-21-07(B)	Volatile Organic Compound (VOC) emissions shall not exceed 30 lb/hr. The requirements of this rule also include compliance with the requirements of OAC rule 6745-31-05(D) and OAC rule 3745-21-07(B). See A.2.a below. Fugitive VOC emissions shall be minimized by use of the latest available control techniques and operating practices in accordance with best current technology when draining residual product from the tanks. See II.B.2- II.B.3 below.

2. Additional Terms and Conditions

- 2.a The emissions of VOC from units P001, P002 and P003 shall not exceed 9.0 tons per year, based upon a rolling, 12 month summation of the monthly emissions.
- 2.b The 30 pounds per hour VOC limitation for this emissions unit was established to reflect

Quality Carriers Inc
PTI Application: 01 00200
Issued

Facility ID: 0121010237

Emissions Unit ID: **P002**

the hourly potential to emit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this term.

B. Operational Restrictions

1. The emissions of VOC from emissions units P001, P002 and P003 combined shall not exceed 9.0 tons per cumulative rolling, 12-month period.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table.

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Emissions of VOC (Tons)</u>
1	0.75
1-2	1.5
1-3	2.25
1-4	3
1-5	3.75
1-6	4.5
1-7	5.25
1-8	6
1-9	6.75
1-10	7.5
1-11	8.25
1-12	9

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual emission limitation for VOC shall be based upon a rolling, 12 month summation of the monthly emissions.

2. Tanks should be empty of all residual product in excess of normal adhesion to the tank wall before cleaning begins.
3. Residual product drained from the tank should be stored in closed containers.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for the tanks cleaned at the facility:
 - a. the company identification of the last transported product in each tank to be cleaned;
 - b. the constituents of each product;

- c. the volume of each tank cleaned;
- d. the number of tanks cleaned;
- e. the volumetric capacity of tanks that received a presolve wash;
- f. the VOC emissions from the presolve cleaning;
- g. the VOC emissions from the P001, P002 and P003 combined (lb/month); and
- h. the VOC emissions from P001, P002 and P003 added to the previous 11 months.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12 month emission limitation for VOC and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative emission levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

E. Testing Requirements

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

- a. Emissions Limitation:
 Volatile Organic Carbon (VOC) emission shall not exceed ~~25~~ **30** lbs/hour.

Applicable Compliance Method:

Compliance with this emission limit shall be demonstrated by multiplying the maximum number of tanks cleaned in an hour (3) by the pounds of VOC per tank cleaned of the product with the highest VOC emissions (9.67 lbs VOC/tank) added to the pounds of VOC per tank cleaned with presolve rinse (0.30 lbs VOC/tank cleaned with presolve cleaner) multiplied by the maximum number of tanks cleaned in an hour (3).

VOC hourly emissions= 9.67lbs VOC/tank * 3 tanks/hr + 0.30 lbs VOC/tank * 3 tanks/hr
 VOC hourly emissions= 30.0 lbs/hr

- b. Emissions Limitation:
 VOC emissions shall not exceed 9.0 tons per rolling 12 month period.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by summing the monthly VOC emissions released from the tanks and the monthly VOC emissions from the presolve cleaning process [T + PCE] per rolling 12 month period, using the following equations.

Tank Emissions (T)

Monthly tank VOC emissions (T): Sum of the monthly VOC emissions from each product cleaned $[\sum P_1 + P_2 + \dots + P_n]$

Product VOC emissions (P): Sum of the VOC emissions from the constituents of each product calculated monthly $[\sum C_1 + C_2 + \dots + C_n]$

Constituent VOC emissions (C): $[\% \text{ VOC} * \text{Molecular Weight (lb/lbmol)} * \text{Vapor Pressure (mmHg)} / \text{Temperature (K)} * \text{Gas Constant R (mmHg} * \text{ft}^3 / \text{K} * \text{lbmol)}] * \text{total volume of tanks cleaned containing that product each month (ft}^3/\text{month)}$

Presolve Cleaning Emissions (PCE)

VOC emissions from presolve cleaning should be calculated by multiplying the vapor pressure of the presolve solvent (0.88 mmHg) by the sum of the tank volume cleaned each month (ft³) by the molecular weight of the presolve cleaning material (118.175 lb/ lbmol). This figure should be divided by the gas constant R (998.9 mmHg * ft³ / K * lbmol) multiplied by the temperature (298 K).

PCE= Presolve Cleaning Emissions (lb VOC /month)

PCE= $[0.88 \text{ mmHg} * \text{sum of the tank volume cleaned each month- ft}^3/\text{month} * 118.175 \text{ lb/lbmol}] / [(998.9 \text{ mmHg} * \text{ft}_3 / \text{K} * \text{lbmol}) (298 \text{ K})]$

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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>
P003 - Wastewater treatment process to include holding tank, clarifier, flash mix tanks, separator and equalization tank	OAC rule 3745-31-05(A)(3)	Volatile organic compound (VOC) emissions shall not exceed 30 lb/hr. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-31-05(D)	See A.2.a below.

2. Additional Terms and Conditions

- 2.a The emissions of VOC from units P001, P002 and P003 shall not exceed 9.0 tons per year, based upon a rolling, 12 month summation of the monthly emissions.
- 2.b The 30 pounds per hour VOC limitation for this emissions unit was established to reflect the hourly potential to emit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this term.

B. Operational Restrictions

1. The emissions of VOC from emissions units P001, P002 and P003 combined shall not exceed 9.0 tons per cumulative rolling, 12-month period.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table.

Qualit**PTI A****Issued: 7/3/2001**Emissions Unit ID: **P003**

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Emissions of VOC (Tons)</u>
1	0.75
1-2	1.5
1-3	2.25
1-4	3
1-5	3.75
1-6	4.5
1-7	5.25
1-8	6
1-9	6.75
1-10	7.5
1-11	8.25
1-12	9

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual emission limitation for VOC shall be based upon a rolling, 12 month summation of the monthly emissions.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for the tanks cleaned at the facility:
 - a. the company identification of the last transported product in each tank to be cleaned;
 - b. the constituents of each product;
 - c. the volume of each tank cleaned;
 - d. the number of tanks cleaned;
 - e. the volumetric capacity of tanks that received a presolve wash;
 - f. the VOC emissions from the presolve cleaning;
 - g. the VOC emissions from the P001, P002 and P003 combined (lb/month); and
 - h. the VOC emissions from P001, P002 and P003 added to the previous 11 months.

D. Reporting Requirements

Quality Carriers Inc
PTI Application: 01 00200
Issued

Facility ID: 0121010237

Emissions Unit ID: P003

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12 month emission limitation for VOC and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative emission levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

E. Testing Requirements

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

- a. Emissions Limitation:
Volatile Organic Carbon (VOC) emission shall not exceed 30 lbs/hour.

Applicable Compliance Method:

Compliance with this emission limit shall be demonstrated by multiplying the maximum number of tanks cleaned in an hour (3) by the pounds of VOC per tank cleaned of the product with the highest VOC emissions (9.67 lbs VOC/tank) added to the pounds of VOC per tank cleaned with presolve rinse (0.30 lbs VOC/tank cleaned with presolve cleaner) multiplied by the maximum number of tanks cleaned in an hour (3).

VOC hourly emissions= 9.67lbs VOC/tank * 3 tanks/hr + 0.30 lbs VOC/tank * 3 tanks/hr
VOC hourly emissions= 30.0 lbs/hr

- b. Emissions Limitation:
VOC emissions shall not exceed 9.0 tons per rolling 12 month period.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by summing the monthly VOC emissions released from the tanks and the monthly VOC emissions from the presolve cleaning process [T + PCE] per rolling 12 month period, using the following equations.

Tank Emissions (T)

Monthly tank VOC emissions (T): Sum of the monthly VOC emissions from each product cleaned $[\sum P_1 + P_2 + \dots + P_n]$

Product VOC emissions (P): Sum of the VOC emissions from the constituents of each product calculated monthly $[\sum C_1 + C_2 + \dots + C_n]$

Constituent VOC emissions (C): $[\% \text{ VOC} * \text{Molecular Weight (lb/lbmol)} * \text{Vapor Pressure (mmHg)} / \text{Temperature (K)} * \text{Gas Constant R (mmHg} * \text{ft}^3 / \text{K} * \text{lbmol)}] * \text{total volume of tanks cleaned containing that product each month (ft}^3/\text{month)}$

Presolve Cleaning Emissions (PCE)

VOC emissions from presolve cleaning should be calculated by multiplying the vapor pressure of the presolve solvent (0.88 mmHg) by the sum of the tank volume cleaned each month (ft³) by the molecular weight of the presolve cleaning material (118.175 lb/ lbmol). This figure should be divided by the gas constant R (998.9 mmHg * ft³ / K * lbmol) multiplied by the temperature (298 K).

PCE= Presolve Cleaning Emissions (lb VOC /month)

$$PCE = \frac{0.88 \text{ mmHg} * \text{sum of the tank volume cleaned each month- ft}^3/\text{month} * 118.175 \text{ lb/lbmol}}{[(998.9 \text{ mmHg} * \text{ft}_3 / \text{K} * \text{lbmol}) (298 \text{ K})]}$$

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

NEW SOURCE REVIEW FORM B

PTI Number: 01-08308 Facility ID: 0121010237

FACILITY NAME Quality Carriers Inc

FACILITY DESCRIPTION Cargo tank cleaning building. CITY/TWP Delaware

SIC CODE 4213 SCC CODE 4-90-004-99 EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION Wash Bay Number One

DATE INSTALLED upon permit issue

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		25	9.0	25	9.0
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

See additional terms and conditions

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 contaminants 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:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08308 Facility ID: 0121010237

FACILITY NAME Quality Carriers Inc

FACILITY DESCRIPTION Cargo tank cleaning building. CITY/TWP Delaware

Emissions Unit ID: P003

SIC CODE 4213 SCC CODE 4-90-004-99 EMISSIONS UNIT ID P002

EMISSIONS UNIT DESCRIPTION Wash Bay Number Two

DATE INSTALLED upon permit issue

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		25	9.0	25	9.0
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

See additional terms and conditions

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 contaminants 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:

26 **NEW SOURCE REVIEW FORM B**

PTI Number: 01-08308 Facility ID: 0121010237

FACILITY NAME Quality Carriers Inc

FACILITY DESCRIPTION Cargo tank cleaning building. CITY/TWP Delaware

Emissions Unit ID: P003

SIC CODE 4213 SCC CODE 4-90-004-99 EMISSIONS UNIT ID P003

EMISSIONS UNIT DESCRIPTION Wastewater treatment process to include holding tank, clarifier, flash mix tanks, separator and equalization tank.

DATE INSTALLED upon permit issue

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		25	9.0	25	9.0
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

See additional terms and conditions

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 contaminants 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: