



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

Mr. Matthew W. Rehtin
Twin Bridges Recycling and Disposal Facility
124 Twin Bridges Road
Danville, IN 46122

April 16, 2012

Re: Approval for a Temporary Operation No. 063-31714-00029 to Part 70 Operating Permit No. 063-18240-00029

Dear Mr. Rehtin:

On April 10, 2012, Twin Bridges Recycling and Disposal Facility submitted a letter informing the Office of Air Quality (OAQ) of their intention to conduct an acetylene tracer experiment. The test operation will begin after May 1, 2012 and end on December 31, 2012.

The purpose of the test is to evaluate and develop a method to characterize landfill methane emissions using a mobile tracer dilution method and a high sensitivity analyzer known as a cavity ring down laser that simultaneously measures methane and acetylene. The principle of the method involves simultaneously measuring the concentration of methane and a tracer gas at various positions around the landfill. During the measurement, an acetylene tracer gas is released from one or more locations on the landfill at a known controlled rate. The amount of methane emitted can be calculated from measuring the ratio of the measured methane and acetylene concentration.

The uncontrolled VOC emissions from the emission unit are less than the PSD significant level of 40 tons per year.

Temporary Operations General Information

Unit:	Mobile acetylene tracer
Location of the Operation:	124 Twin Bridges Road, Danville, IN 46122
County:	Hendricks
County Status:	Nonattainment for PM2.5 and Attainment for all other criteria pollutants
Starting Date of the Operation:	May 1, 2012 [326 IAC 2-1.1-3(h)(3)(F)]
Duration of the Operation:	Less than thirty (30) days of total operating time
Activity:	Acetylene emissions

Applicable Requirements

Pursuant to 326 IAC 2-1.1-3(h) (Exemption for Temporary Operations), the above mentioned temporary operations shall satisfy the following requirements:

1. The potential emissions from the operation are less than 25 tons per year for the duration of the operation. [326 IAC 2-1.1-3(h)(3)(A)]



2. The operation is not a major source or modification as defined under 326 IAC 2-2, or 326 IAC 2-7. [326 IAC 2-1.1-3(h)(3)(B)]
3. The purpose of the temporary operation is to:
 - (a) temporarily conduct an operation not considered as part of the normal operation or production of the facility or source. [326 IAC 2-1.1-3(h)(3)(C)(ii)]
4. The duration of the temporary operations is less than thirty (30) days of total operating time. [326 IAC 2-1.1-3(h)(3)(D)]
5. The Permittee shall submit a report containing the following information, at most seven (7) days after the conclusion of the temporary operations: [326 IAC 2-1.1-3(h)(3)(G)]
 - (a) The actual dates of the construction and operation.
 - (b) The duration of the operation.
 - (c) The actual emissions occurring during the operation.
6. The report shall be submitted to:
Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Expiration Date

The approval for the Temporary Operations expires thirty days (30) after actual operating time.

IDEM Contact

If you have any questions regarding this approval, please contact Anh Nguyen of my staff at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-5334 or toll free at 1-800-451-6027 extension (3-5334).

Sincerely,



Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Enclosure: Temporary Operations Report

cc: File – Hendricks County
Hendricks County Health Department
Compliance & Enforcement Branch

**Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, IN 46204-2251**

Temporary operations Report

Source Name: Twin Bridges recycling and Disposal Facility (RFD)
Source Location: 124 Twin Bridges Road, Danville, IN 46122
County Location: Hendricks
Experimental Operation: 063-30700-00029

Temporary Operation	
Type of unit/operation:	
Actual starting date of the construction:	
Actual ending date of the construction:	
Actual starting date of the operation:	
Actual ending date of the operation:	
Actual number of days of the operation:	
Calculated emissions during the duration of the operation:	
Additional Comments:	

I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

TWIN BRIDGES ACETYLENE RELEASE CALCULATIONS

ASSUMPTIONS:

ACETYLENE (C ₂ H ₂)	1.072 density (grams/liter)*
Mass Flow Controller Maximum Release Rate:	27.5 liters/min
Number of Mass Flow Controllers:	3
Maximum Number of Hours of Release per Day:	8 hours
Number of Days of Release in 2010:	12 days

UNIT CONVERSIONS:

Number of minutes per hour:	60 minutes/hour
Number of grams per kilogram:	1000 grams/kilogram
Number of pound per Kilogram:	2.2046 pound/kilogram
Number of pounds per ton:	2000 pounds/ton
Number of kilograms per metric ton:	1000 kilograms/ton

ACETYLENE RELEASE CALCULATIONS:

Maximum Hourly Release Rate of C ₂ H ₂ :	5 kilograms/hour	or	11 pounds/hour
Maximum Daily Release Rate of C ₂ H ₂ :	40 kilograms/day	or	87 pounds/day
Maximum Total Release of C ₂ H ₂ :	475 kilograms	or	1048 pounds
Maximum Total Release of C ₂ H ₂ :	0.48 metric tons	or	0.524 tons/yr

* @ 25 degrees C, 14.696 PSIA

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Mail Code 61-53

IDEM Staff	LPOGOST 4/12/2012 Twin Bridges Recycling and Disposal Facility 063 - 31714 - 00029 final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	 Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Matthew Rechten Twin Bridges Recycling and Disposal Facility 124 Twin Bridges Rd Danville IN 46122 (Source CAATS)										
2		Brad Eisenhart Dir - Landfill Ops Twin Bridges Recycling and Disposal Facility 124 Twin Bridges Rd Danville IN 46122 (RO CAATS)										
3		Hendricks County Commissioners 355 S Washington Danville IN 46122 (Local Official)										
4		Town of Danville 49 N Wayne St Danville IN 46122 (Local Official)										
5		Hendricks County Health Department 355 S Washington Street, Suite 210 Danville IN 46122-1759 (Health Department)										
6		Mike Niemann Environmental Information Logistics, Inc. 130 E Main Street Caledonia MI 49316 (Consultant)										
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50,000 per occurrence. The maximum indemnity payable on Express mail merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on insured and COD mail. See International Mail Manual for limitations of coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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