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Indiana Department of Environmental Management
Solid Waste Permits Section - Office of Land Quality
Land Application Monthly Report - Biosolids and Industrial Waste Products

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All
Pages

>>Complete and submit this form to IDEM each report month<<

Month:	AUGUST	Year:	2016
Permittee	GAS CITY WWTP	L.A. Permit No. IN LA:	IN LA 000249

Methods of Disposal Utilized:

Indicate by an "X" which disposal methods were utilized this month and provide volumes for each method.

NOTE: Only include amounts for those materials which you are PERMITTED to land apply.

BIOSOLIDS:		Dry Tons
<input type="checkbox"/>	No biosolids were disposed, by land application or other methods, this month	NA
X	Biosolids were land applied this month	52.20
<input type="checkbox"/>	Dewatered biosolids were used at the treatment works grounds this month	
<input type="checkbox"/>	Biosolids were landfilled this month	
<input type="checkbox"/>	Biosolids were disposed by the method listed below this month	
Method:	TRUCK	

Of the total volume listed above, what volume was transported out of Indiana? 0.00

INDUSTRIAL WASTE PRODUCTS:		Dry Tons
X	No industrial waste products were disposed, by land application or other methods, this month	NA
<input type="checkbox"/>	Industrial waste products were land applied this month	
<input type="checkbox"/>	Industrial waste products were landfilled this month	
<input type="checkbox"/>	Industrial waste products were disposed by the method listed below this month	
Method:		

Of the total volume listed above, what volume was transported out of Indiana? 0.00

I hereby certify that to the best of my knowledge and understanding this report is complete and accurate.

Jim Richards
Signature

JIM RICHARDS
Printed Name

PLANT SUPT
Title

9/26/2016
Date

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OCT 03 2016

DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Indiana Department of Environmental Management

Solid Waste Permits Section - Office of Land Quality

Land Application Site Activity Report - Biosolids and Industrial Waste Products

>>Complete and submit this form to IDEM for each application site used during a report month<<

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Month:	AUGUST	Year:	2016	Place "X" below if first use of site by this permittee
Permittee:	GAS CITY WWTP	Site ID:	Rhodes 32	
L.A. Permit No. IN LA:	IN LA 000249	Acres Available:	32	
Type of Material Applied This Month:	2	Acres Used This Month:	32	

Types of Material: 1 = Anaerobically Digested Biosolids, 2 = Aerobically Digested Biosolids, 3 = Industrial Waste Product

Date:	Loading Data:		Method Used* 1, 2, or 3	Metal Analysis 1 or 2	Nutrient Analysis 1 or 2
	Dry Tons Applied	% Total Solids			
1					
2					
3					
4					
5					
6					
7					
8					
9	52.20	12.60	32	3	1
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

Lab Data: DO NOT USE < IF NOT DETECTED
ENTER DETECTION LIMIT!

Heavy Metal Analysis:

ANALYSIS #	1	2	
Sample Report Date	05/06/16		
% Total Solids	12.30		
Arsenic (As)	6.40		mg/kg dry wt.
Cadmium (Cd)	3.00		mg/kg dry wt.
Copper (Cu)	482.00		mg/kg dry wt.
Lead (Pb)	10.30		mg/kg dry wt.
Mercury (Hg)	0.10		mg/kg dry wt.
Molybdenum (Mo)	8.20		mg/kg dry wt.
Nickel (Ni)	7.50		mg/kg dry wt.
Selenium (Se)	3.00		mg/kg dry wt.
Zinc (Zn)	469.00		mg/kg dry wt.

Nutrient Analysis: DO NOT USE < IF NOT DETECTED
ENTER DETECTION LIMIT!

ANALYSIS #	1	2	
% Total Solids	12.60		
Total N (TN)	4.27		% dry wt.
Ammonium N (NH4-N)	0.01		% dry wt.
Nitrate N (NO3-N)	0.00		% dry wt.
Phosphorus (P)	3.22		% dry wt.
Potassium (K)	0.19		% dry wt.

Other Analysis:

ANALYSIS #	1	2	
PCB	0.03		mg/kg dry wt.
Other			
Other			

*Methods of Application: 1 = Surface, 2 = Injection, 3 = Incorporation

What is the projected crop(s) for which the above application(s) was intended to fertilize? **CORN**

If more than one crop is listed, indicate on the site-use map the areas planted, or to be planted, in each different type of crop.

Has this application site been used for land application of any biosolids or industrial waste products from any other facility within the past 365 day period? Yes No If yes, by whom?

Date of last soil analysis of this site: 04/15/15

pH range from last soil analysis of this site: 7.0

Date on which last soil pH adjustment was made on this site:

Minimum CEC from last soil analysis of this site (does not apply to sites where biosolids are applied):

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OFFICE OF LAND QUALITY

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Indiana Department of Environmental Management

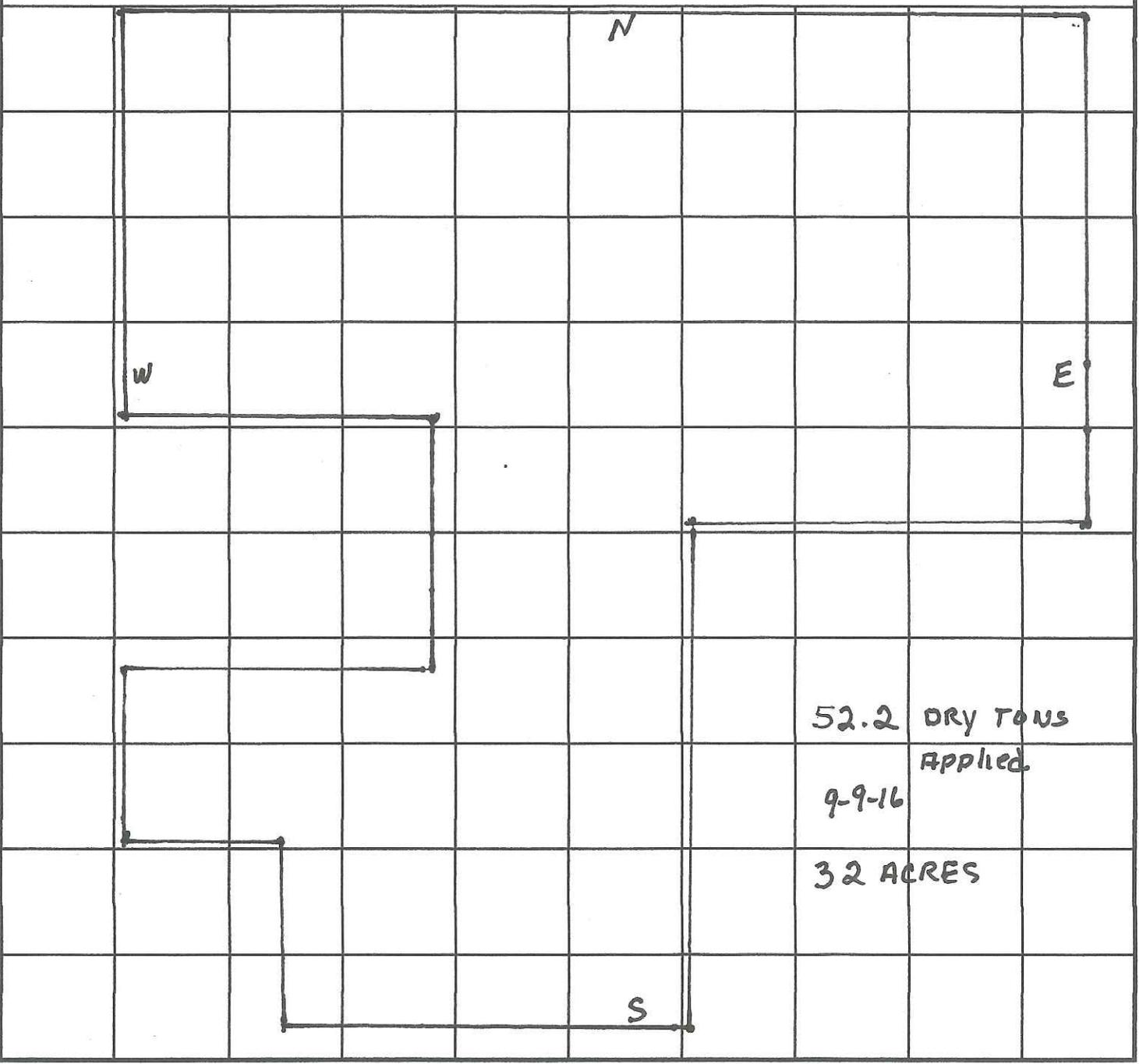
Solid Waste Permits Section - Office of Land Quality

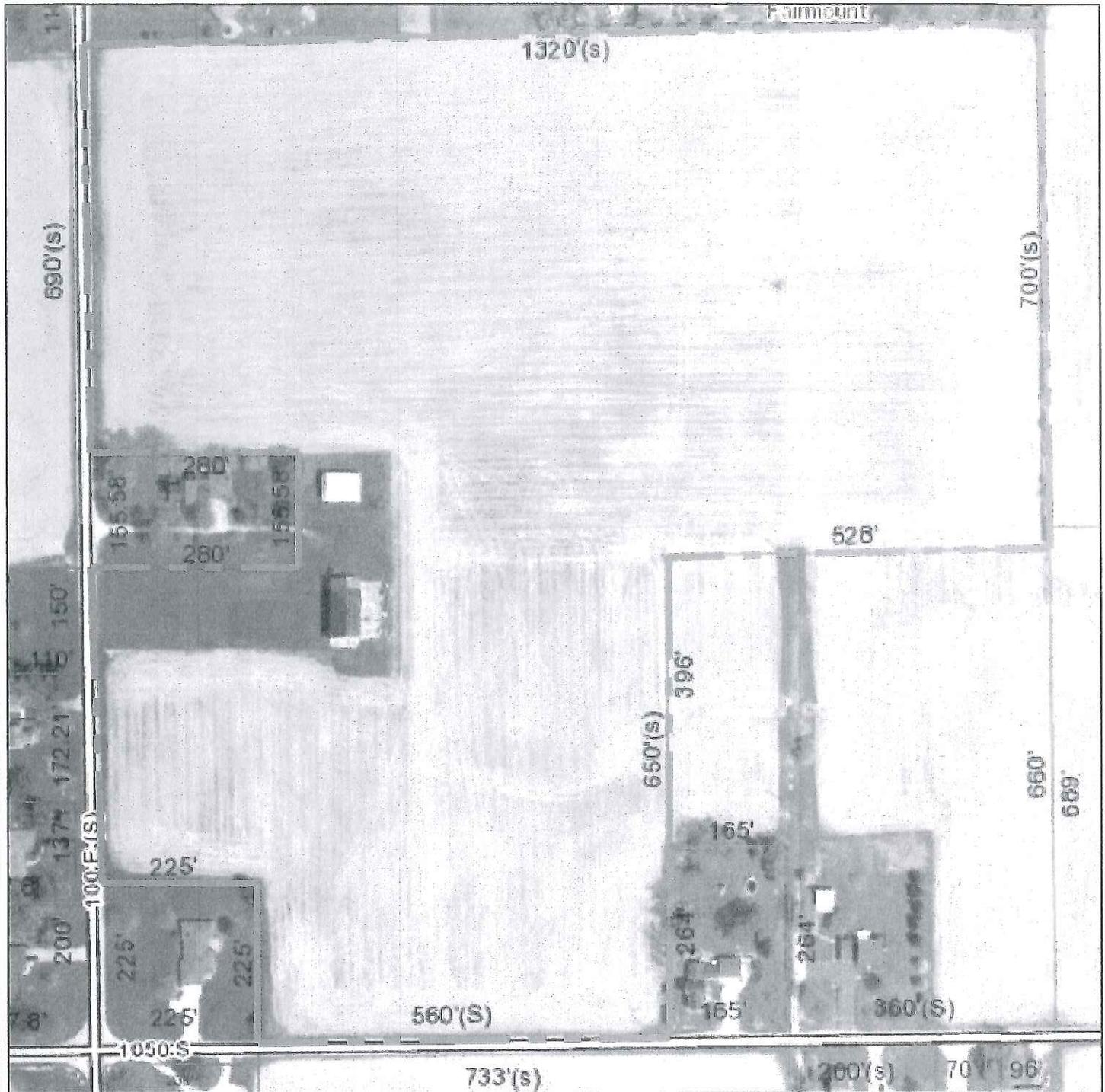
Land Application Site-Use Map - Biosolids and Industrial Waste Products

>>Complete and submit this form to IDEM for each application site used during a report month<<

Month:	AUGUST	Year:	2016
Permittee:	GAS CITY WWTP	Site ID:	Rhodes 32
L.A. Permit No. IN LA:	IN LA 000249	Acres Available:	32

Scale: 1 box = 1.5 1 acre(s) Indicate compass bearings (N, S, E, W)





Owner:

Brock, Dana Michelle, Trustee, under the Jerry DR
 1021 E. 1050 S.
 Fairmount, IN 46928

Legal Description:

09-02-485, 486, 487 PT W NW SEC 32
 28.37 A; .50A & 1.18A

Property Class

Agricultural Use



N.T.S.

Soil Map—Grant County, Indiana
(Gas City Land Application Permit)



Map Scale: 1:3,370 if printed on A portrait (8.5" x 11") sheet.

0 45 90 180 270 Meters

0 150 300 600 900 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Grant County, Indiana
Survey Area Data: Version 22, Sep 9, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 17, 2011—Mar 14, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Grant County, Indiana (IN053)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BgmA	Blount silt loam, ground moraine, 0 to 2 percent slopes	0.6	1.2%
GlsB2	Glynwood silt loam, ground moraine, 2 to 6 percent slopes, eroded	23.4	48.4%
Pw	Pewamo silty clay loam, 0 to 1 percent slopes	24.4	50.4%
Totals for Area of Interest		48.4	100.0%

Laboratory Analysis

Printed by: User on 8/21/2016 11:00 AM
 www.environmental-lab.com and clicking on Client Data Support



635 Green Road, PO Box 968, Madison, IN 47250
 Tel: 812.273.6699 Fax: 812.273.5788

Report To:

Jim Richards
 Gas City STP
 500 South Broadway
 Gas City, IN 46933

Order No.: 2016081975
 PO No.:
 Date Received: 08/12/2016
 Report Date: 09/21/2016
 Project Name: LA NUTRIENTS

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016081975	W0816-299	Sludge	SLUDGE BAG	7/9/2016	11:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Total Solids, %		12.6	%	ZB	0.01	SM-2540G	8/16/2016
	Total Kjeldahl Nitrogen-Wet WT.		5377.92	mg/Kg	KS	200	SM-4500-NH3(B+D)	8/31/2016
	Total Kjeldahl Nitrogen-Wet %		0.538	%	KS		SM-4500-NH3(B+D)	8/31/2016
	Total Kjeldahl Nitrogen-Wet Loading Rate		10.8	lbs/wet ton	KS		327 IAC 6.1	8/31/2016
	Total Kjeldahl Nitrogen-Dry WT.		42700	mg/Kg	KS	1587	SM-4500-NH3(B+D)	8/31/2016
	Total Kjeldahl Nitrogen-Dry %		4.27	%	KS		SM-4500-NH3(B+D)	8/31/2016
	Total Kjeldahl Nitrogen-Dry Loading Rate		85.4	lbs/dry ton	KS		327 IAC 6.1	8/31/2016
	Ammonia(as N)-Wet WT.		13.168	mg/Kg	ZB	10	SM-4500-NH3(B+D)	8/18/2016
	Ammonia(as N)-Wet %		0.00132	%	ZB		SM-4500-NH3(B+D)	8/18/2016
	Ammonia(as N)-Wet Loading Rate		0.0264	lbs/wet ton	ZB		327 IAC 6.1	8/18/2016
	Ammonia(as N)-Dry WT.		105	mg/Kg	ZB	79	SM-4500-NH3(B+D)	8/18/2016
	Ammonia(as N)-Dry %		0.0105	%	ZB		SM-4500-NH3(B+D)	8/18/2016
	Ammonia(as N)-Dry Loading Rate		0.210	lbs/dry ton	ZB		327 IAC 6.1	8/18/2016
	Nitrate(as N)-Wet WT.		<3	mg/Kg	HW	3	EPA 300.1	8/23/2016
	Nitrate(as N)-Wet %		<0.0003	%	HW		EPA 300.1	8/23/2016
	Nitrate(as N)-Wet Loading Rate		<0.006	lbs/wet ton	HW		327 IAC 6.1	8/23/2016
	Nitrate(as N)-Dry WT.		<23.8	mg/Kg	HW	23.8	SM4500-NO3	8/23/2016
	Nitrate(as N)-Dry %		<0.00238	%	HW		SM4500-NO3	8/23/2016
	Nitrate(as N)-Dry Loading Rate		<0.0476	lbs/dry ton	HW		327 IAC 6.1	8/23/2016
	Metal Digestion-Solids		DONE		BD		SW846-3050B	8/19/2016
	Phosphorus-Wet WT.(ICP)		4060	mg/Kg	AR	12.6	SW846-6010B	8/25/2016
	Phosphorus-Wet %(ICP)		0.406	%	AR		SW846-6010B	8/25/2016

Laboratory Analysis

Instantly access all of your data 24/7, 365 by going to www.eswirelabinc.com and clicking on Client Data Support.



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Report To:

Jim Richards
 Gas City STP
 500 South Broadway
 Gas City, IN 46933

Order No.: 2016081975
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 Date Received: 08/12/2016
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 Project Name: LA NUTRIENTS

Phosphorus-Wet Loading Rate	8.12	lbs/wet ton	AR		327 IAC 6.1	8/25/2016
Phosphorus-Dry WT.(ICP)	32200	mg/Kg	AR	5	SW846-6010B	8/25/2016
Phosphorus-Dry %(ICP)	3.22	%	AR		SW846-6010B	8/25/2016
Phosphorus-Dry Loading Rate	64.4	lbs/dry ton	AR		327 IAC 6.1	8/25/2016
Potassium-Wet WT.(ICP)	238	mg/Kg	AR	12.6	SW846-6010B	8/25/2016
Potassium-Wet%(ICP)	0.0238	%	AR		SW846-6010B	8/25/2016
Potassium-Wet Loading Rate	0.476	lbs/wet ton	AR		327 IAC 6.1	8/25/2016
Potassium-Dry WT.(ICP)	1890	mg/Kg	AR	5	SW846-6010B	8/25/2016
Potassium-Dry%(ICP)	0.189	%	AR		SW846-6010B	8/25/2016
Potassium-Dry Loading Rate	3.78	lbs/dry ton	AR		327 IAC 6.1	8/25/2016

Comments:

Approved by:

Diana Dupraw, Ph.D., QC Officer

Whitney Wu, Ph.D., Lab Manager

Laboratory Analysis

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Report To:

Gas City STP
500 South Broadway
Gas City, IN 46933

Order No.: 2016040639
PO No.:
Date Received: 04/12/2016
Report Date: 05/06/2016
Project Name: LAND APPLICATION

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-265	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name	Results	Units	Analyst		Detection Limit	Test Method	Analysis Date
	Total Solids, %	12.3	%	ST		0.01	SM-2540G	4/21/2016
	Arsenic-Dry Loading Rate	0.0128	lbs/dry ton	AR			327 IAC 6.1	5/4/2016
	Arsenic-Dry WT. (ICP)	6.40	mg/Kg	AR		2	SW846-6010B	5/4/2016
	Arsenic-Dry %(ICP)	0.000640	%	AR			SW846-6010B	5/4/2016
	Arsenic-Wet WT.(ICP)	0.787	mg/Kg	AR		0.25	SW846-6010B	5/4/2016
	Arsenic-Wet %(ICP)	0.0000787	%	AR			SW846-6010B	5/4/2016
	Arsenic-Wet Loading Rate	0.00157	lbs/wet ton	AR			327 IAC 6.1	5/4/2016
	Cadmium-Dry WT.(ICP)	<3	mg/Kg	AR		3	SW846-6010B	5/4/2016
	Cadmium-Dry Loading Rate	<0.00600	lbs/dry ton	AR			327 IAC 6.1	5/4/2016
	Metal Digestion-Solids	DONE		BD			SW846-3050B	4/22/2016
	Cadmium-Dry %(ICP)	<0.000300	%	AR			SW846-6010B	5/4/2016
	Cadmium-Wet WT.(ICP)	<0.37	mg/Kg	AR		0.37	SW846-6010B	5/4/2016
	Cadmium-Wet %(ICP)	<0.000037 0	%	AR			SW846-6010B	5/4/2016
	Cadmium-Wet Loading Rate	<0.000740	lbs/wet ton	AR			327 IAC 6.1	5/4/2016
	Copper-Dry WT.(ICP)	482	mg/Kg	AR		3	SW846-6010B	5/4/2016
	Copper-Dry %(ICP)	0.0482	%	AR			SW846-6010B	5/4/2016
	Copper-Wet WT.(ICP)	59.3	mg/Kg	AR		0.37	SW846-6010B	5/4/2016

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Project Name: LAND APPLICATION

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-265	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
	Copper-Wet %(ICP)	0.00593	%	AR		SW846-6010B	5/4/2016	
	Copper-Wet Loading Rate	0.119	lbs/wet ton	AR		327 IAC 6.1	5/4/2016	
	Copper-Dry Loading Rate	0.964	lbs/dry ton	AR		327 IAC 6.1	5/4/2016	
	Mercury Digestion-Solids	DONE		AR		SW846-7471	4/22/2016	
	Molybdenum-Dry Loading Rate	0.0164	lbs/dry ton	AR		327 IAC 6.1	5/4/2016	
	Molybdenum-Dry WT.(ICP)	8.20	mg/Kg	AR		6 SW846-6010B	5/4/2016	
	Molybdenum-Dry %(ICP)	0.000820	%	AR		SW846-6010B	5/4/2016	
	Molybdenum-Wet WT.(ICP)	1.01	mg/Kg	AR		0.74 SW846-6010B	5/4/2016	
	Molybdenum-Wet %(ICP)	0.000101	%	AR		SW846-6010B	5/4/2016	
	Molybdenum-Wet Loading Rate	0.00202	lbs/wet ton	AR		327 IAC 6.1	5/4/2016	
	Nickel-Dry Loading Rate	0.0150	lbs/dry ton	AR		327 IAC 6.1	5/4/2016	
	Nickel-Dry WT.(ICP)	7.50	mg/Kg	AR		1 SW846-6010B	5/4/2016	
	Nickel-Dry%(ICP)	0.000750	%	AR		SW846-6010B	5/4/2016	
	Nickel-Wet WT.(ICP)	0.922	mg/Kg	AR		0.12 SW846-6010B	5/4/2016	
	Nickel-Wet%(ICP)	0.0000922	%	AR		SW846-6010B	5/4/2016	
	Nickel-Wet Loading Rate	0.00184	lbs/wet ton	AR		327 IAC 6.1	5/4/2016	
	Lead-Dry Loading Rate	0.0206	lbs/dry ton	AR		327 IAC 6.1	5/4/2016	

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Order No.: 2016040639
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Date Received: 04/12/2016
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Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-265	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
	Lead-Dry WT.(ICP)	10.3	mg/Kg	AR	6	SW846-6010B	5/4/2016	
	Lead-Dry %(ICP)	0.00103	%	AR		SW846-6010B	5/4/2016	
	Lead-Wet WT.(ICP)	1.27	mg/Kg	AR	0.74	SW846-6010B	5/4/2016	
	Lead-Wet %(ICP)	0.000127	%	AR		SW846-6010B	5/4/2016	
	Lead-Wet Loading Rate	0.00254	lbs/wet ton	AR		327 IAC 6.1	5/4/2016	
	Mercury-Dry WT.(CVAA)	0.0976	mg/Kg	AR	0.08	SW846-7471	4/22/2016	
	Mercury-Wet WT.(CVAA)	0.0120	mg/Kg	AR	0.01	SW846-7471	4/22/2016	
	Mercury-Wet %(CVAA)	0.00000120	%	AR		SW846-7471	4/22/2016	
	Mercury-Wet Loading Rate	0.0000240	lbs/wet ton	AR		327 IAC 6.1	4/22/2016	
	Mercury-Dry %(CVAA)	0.00000976	%	AR		SW846-7471	4/22/2016	
	Mercury-Dry Loading Rate	0.000195	lbs/dry ton	AR		327 IAC 6.1	4/22/2016	
	Selenium-Dry WT.(ICP)	<3	mg/Kg	AR	3	SW846-6010B	5/4/2016	
	Selenium-Dry %(ICP)	<0.000300	%	AR		SW846-6010B	5/4/2016	
	Selenium-Wet WT.(ICP)	<0.37	mg/Kg	AR	0.37	SW846-6010B	5/4/2016	
	Selenium-Wet%(ICP)	<0.000037 0	%	AR		SW846-6010B	5/4/2016	
	Selenium-Wet Loading Rate	<0.000740	lbs/wet ton	AR		327 IAC 6.1	5/4/2016	
	Zinc-Dry WT.(ICP)	469	mg/Kg	AR	5	SW846-6010B	5/4/2016	

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Gas City STP
500 South Broadway
Gas City, IN 46933

Order No.: 2016040639
PO No.:
Date Received: 04/12/2016
Report Date: 05/06/2016
Project Name: LAND APPLICATION

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-265	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Selenium-Dry Loading Rate		<0.00600	lbs/dry ton	AR		327 IAC 6.1	5/4/2016
	Zinc-Dry %(ICP)		0.0469	%	AR		SW846-6010B	5/4/2016
	Zinc-Wet WT.(ICP)		57.7	mg/Kg	AR	0.62	SW846-6010B	5/4/2016
	Zinc-Wet %(ICP)		0.00577	%	AR		SW846-6010B	5/4/2016
	Zinc-Wet Loading Rate		0.115	lbs/wet ton	AR		327 IAC 6.1	5/4/2016
	Zinc-Dry Loading Rate		0.938	lbs/dry ton	AR		327 IAC 6.1	5/4/2016

Comments:

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-266	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Total Solids, %		11.0	%	ST	0.01	SM-2540G	4/12/2016
	Fecal Coliform,503-REG		39100	cfu/1g	DD	909	SM-9222D	4/12/2016

Comments:

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-267	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Fecal Coliform,503-REG		33000	cfu/1g	DD	893	SM-9222D	4/12/2016

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Project Name: LAND APPLICATION

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-267	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Total Solids, %		11.2	%	ST	0.01	SM-2540G	4/12/2016
	Comments:							
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-268	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Total Solids, %		11.7	%	ST	0.01	SM-2540G	4/12/2016
	Fecal Coliform,503-REG		28200	cfu/1g	DD	855	SM-9222D	4/12/2016
	Comments:							
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-269	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name		Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
	Total Solids, %		11.3	%	ST	0.01	SM-2540G	4/12/2016
	Fecal Coliform,503-REG		33600	cfu/1g	DD	885	SM-9222D	4/12/2016
	Comments:							

Laboratory Analysis

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635 Green Road, PO Box 968, Madison, IN 47250
Tel: 812.273.6699 Fax: 812.273.5788

Report To:

Gas City STP
500 South Broadway
Gas City, IN 46933

Order No.: 2016040639
PO No.:
Date Received: 04/12/2016
Report Date: 05/06/2016
Project Name: LAND APPLICATION

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-270	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		Total Solids, %	10.8	%	ST	0.01	SM-2540G	4/12/2016
		Fecal Coliform,503-REG	25000	cfu/1g	DD	926	SM-9222D	4/12/2016
Comments:								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-271	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		Total Solids, %	10.4	%	ST	0.01	SM-2540G	4/12/2016
		Fecal Coliform,503-REG	24000	cfu/1g	DD	962	SM-9222D	4/12/2016
Comments:								
Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-272	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		Fecal Coliform,503-REG	19300	cfu/1g	DD	917	SM-9222D	4/12/2016
		Total Solids, %	10.9	%	ST	0.01	SM-2540G	4/12/2016
		CALC. OF GEOM. MEAN,503-REG	28200	cfu/1g	DD		503-REGULATION	4/12/2016
Comments:								

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Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-273	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
		Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
		Total Solids, %	12.0	%	FO	0.01	SM-2540G	4/16/2016
		PCB, Aroclor 1016-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
		PCB, Aroclor 1016-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
		PCB, Aroclor 1221-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
		PCB, Aroclor 1016-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
		PCB, Aroclor 1016-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
		PCB, Aroclor 1221-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
		PCB, Aroclor 1221-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
		PCB, Aroclor 1232-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
		PCB, Aroclor 1232-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
		PCB, Aroclor 1232-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
		PCB, Aroclor 1232-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
		PCB, Aroclor 1221-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
		PCB, Aroclor 1242-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016

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Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016040639	W0416-273	Sludge	SLUDGE BAG	4/11/2016	14:00	KR		Reported
	Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date	
	Surr. Tetrachloro-m-xylene	85	% REC	FO		SW846-8082	4/19/2016	
	PCB, Total-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016	
	PCB, Total-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016	
	PCB, Total-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016	
	PCB, Total-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016	
	PCB, Total-Wet Loading Rate	<0.000180	lbs/wet ton	FO		327 IAC 6.1	4/19/2016	
	PCB, Total-Dry Loading Rate	<0.00150	lbs/dry ton	FO		327 IAC 6.1	4/19/2016	
	PCB, Aroclor 1242-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016	
	PCB, Aroclor 1242-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016	
	PCB, Aroclor 1242-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016	
	PCB, Aroclor 1248-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016	
	PCB, Aroclor 1248-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016	
	PCB, Aroclor 1248-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016	
	PCB, Aroclor 1248-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016	

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Gas City STP
500 South Broadway
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Order No.: 2016040639
PO No.:
Date Received: 04/12/2016
Report Date: 05/06/2016
Project Name: LAND APPLICATION

PCB, Aroclor 1254-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
PCB, Aroclor 1254-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1260-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
PCB, Aroclor 1254-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
PCB, Aroclor 1254-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1260-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
PCB, Aroclor 1260-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1262-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
PCB, Aroclor 1262-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1262-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
PCB, Aroclor 1262-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1260-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1268-Dry WT.	<0.75	mg/kg	FO	0.75	SW846-8082	4/19/2016
PCB, Aroclor 1268-Dry%	<0.000075 0	%	FO		SW846-8082	4/19/2016
PCB, Aroclor 1268-Wet WT.	<0.09	mg/kg	FO	0.09	SW846-8082	4/19/2016
PCB, Aroclor 1268-Wet%	<0.000009 00	%	FO		SW846-8082	4/19/2016
Comments:						

Approved by:

Diana Dupraw, QC Officer

Whitney Wu, Lab Manager

PART VII. APPLICATION SITE INFORMATION FORM (for sites not eligible for the National Pollutant Discharge Elimination Act (NPDES) permit program)

A. SITE INFORMATION Site ID (10 characters or less; if renewal, use original ID): **RHODES 32**

B. DEGREE OF PUBLIC ACCESS
 This site meets the definition of "Land with a HIGH potential for public exposure".
 This site meets the definition of "Land with a LOW potential for public exposure".

C. OWNER INFORMATION

Owner Name: **Dana Brock** Phone: **812-597-4814**
 Mailing Address: **6336 Horseshoe Rd.** Extension:
 City: **Morgantown** State: **Indiana** ZIP: **46160**

D. SITE LOCATION/ACREAGE

County: **Grant** Civil Township (name): **Fairmount**
 Range No(s): **8 E** Township No(s): **23** Section No(s): **32**
 Grant or other alternate surveying unit name/number:

Tillable acres available for application (include buffer areas & setbacks): **32 Acres**

E. SOIL ANALYSIS DATA (attach copy of soil analyses for each site, one composite analysis per 25 acres is required)
 Soil pH (enter the range from all analyses) (NOT buffer pH) **6.9**

F. USDA NATURAL RESOURCE CONSERVATION SERVICE (NRCS) SOIL SURVEY INFORMATION
 List all soil types at site (NRCS soil map symbols) **Pw - G1sB2 - Bgma**
 List any soil types that have a depth to bedrock of less than 20 inches
 List any soil types that indicate a potential for flooding
 List any soil types that have a slope in excess of 18%

G. WELLS (check as appropriate and show location of on-site wells on site map for this site)

Does this site contain any type of well? Yes No
 If yes, is the well... in use inactive capped
 If yes, what type? potable livestock irrigation other (specify)

H. PLANNED LAND USE (check one or more)

row crop set aside pasture hay reclamation truck/garden crop turf
 other (specify)

I. SITE FEATURES

Is any area of the site within 33 feet of surface waters or the surface conduit to a subsurface feature? Yes No
 Is any area of the site within 300 feet of surface waters or the surface conduit to a subsurface feature? Yes No
 Is any area of the site within 300 feet of any residence? (line structure itself) Yes No
 Will land application violate historic preservation requirements (IC 14-20-1 & 310 IAC 15-3)? Yes No
 Will land application adversely affect threatened or endangered species or critical habitat? Yes No
 Will land application violate the endangered species regulation (IC 14-22-34)? Yes No

J. SITE-USE HISTORY

Provide below a list of all facilities, other than the applicant, that have applied biosolids, industrial waste products or pollutant bearing water to this site in the past. **0**

Provide below a list of all facilities, other than the applicant, that currently include this site in their biosolids, industrial waste product or pollutant-bearing water land application program. **0**

Is the site currently involved in a program to receive animal manure or other waste materials? (If yes, explain below) Yes No

PART VIII. APPLICATION SITE LAND-USE AGREEMENT (other signed agreements may be submitted in lieu of this form)

A. PERMISSION STATEMENT

I, Dana Brock (landowner name), hereby give permission for Rhodes 32 (facility name) to land apply biosolids to my land as described below:

B. SITES FOR WHICH PERMISSION IS GIVEN

SITE ID	RANGE(S)	TOWNSHIP(S)	SECTION(S)
Rhodes 32	8 - E	23	32

C. SPECIFIC CONDITIONS AGREED UPON BETWEEN LANDOWNER AND APPLICANT

List below any specific conditions that the landowner and applicant have agreed upon for use of the site(s) listed above.

One time application

D. CERTIFICATION (applicant's signature is not required if no specific conditions are listed above)

Landowner's Printed Name <i>Jerry Rhoads Trust dated 06/25/2013</i>	Applicant's Printed Name
<i>x Dana M. Brock Trustee</i>	
Landowner's Signature	Applicant's Signature
<i>x Dana M Brock Trustee</i>	
Date Signed <i>11-22-16</i>	Date Signed

PART II. LAND APPLICATION PROGRAM SUMMARY

A. VOLUME OF BIOSOLIDS TO BE LAND APPLIED *(complete one or more as applicable)*

1. On-Going Land Application Program

Estimated total amount of biosolids generated annually by applicant.

_____ *Dry Tons*

2. One-Time Lagoon Clean-Out Program

Estimated total amount of biosolids contained in lagoon(s).

_____ *Dry Tons*

3. Stockpile Removal Program

Estimated total amount of biosolids stockpiled.

_____ *Dry Tons*

4. Other *(specify)*

One time Land Apply

52.2 *Dry Tons*

B. COUNTIES AFFECTED BY PROGRAM

If applying for a Nonsite-Specific or Hybrid permit, list all counties where biosolids are proposed to be land applied *(permit will limit application to the counties listed)*.

Grant

C. APPLIERS AND EQUIPMENT

Identify who applies the biosolids. If application is done by applicant, list the type and capacity of equipment the applicant has available for use, including any equipment for injection and incorporation.

Kyle VanMeter, Farmer,

D. NPDES PERMIT

If applicable, enter the permit number for any NPDES permit held by the applicant.

IN0022985

IDENTIFICATION OF AFFECTED COUNTIES, CITIES AND TOWNS

COUNTIES in which:

- 1) a proposed land application site(s) is located (*including sites in site-specific, hybrid and pollutant-bearing water permits*),
- 2) a non site-specific land application activity will take place, or
- 3) a marketing and distribution generating facility is located.

GRANT

CITIES and TOWNS within which: (*either within the city or town or within the city or towns zoning authority*)

- 1) a proposed land application site(s) is located (*including sites in site-specific, hybrid and pollutant-bearing water permits*), or
- 2) a marketing and distribution generating facility is located.

PART XIII. CERTIFICATION

"Application is hereby made for a permit to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and to the best of my knowledge and belief, such information is true, complete, and accurate."

Refer to IC 13-30-10 for penalties for submission of false information.

A. SIGNATURE	D. SIGNATURE OF PERSON COMPLETING APPLICATION
	
B. PRINTED NAME AND OFFICIAL TITLE <i>(print or type)</i>	Do you want the opportunity to review a draft permit prior to permit issuance?
Jim Richards	<input type="checkbox"/> Yes <input type="checkbox"/> No
C. DATE SIGNED	
11-17-16	

An application submitted by a municipality must be signed by a ranking elected official (mayor, town council president, etc.) or other duly authorized person. Documentation of such authorization must be submitted with the application if signed by someone other than the elected official.

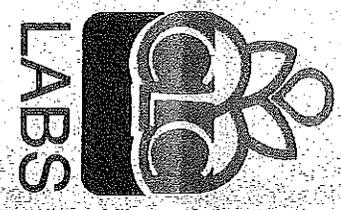
An application submitted by a corporation must be signed by a principal executive officer of at least vice president level or their duly authorized representative. However, such representative must be responsible for the complete operation of the facility for which the permit is being secured (i.e., General Manager). In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or a proprietor.

WILSON COUNTY - FFP
 FARM FOR PROFIT
 SUDBURYVILLE, OH 43070

325 VENTURE DRIVE
 WESTERVILLE, OHIO 43081
 614-888-1663

SET NUMBER	DEALER NUMBER	LAB NUMBER	FIELD SAMPLE NUMBER	SAMPLE NUMBER	ACREAGE	SOIL pH	AVAIL. P ₂ O ₅ lb/A	BRAY II P ₂ O ₅ lb/A	POTASSIUM lb/A	ORGANIC MATTER	CALCIUM lb/A	MAGNESIUM lb/A	SULFUR lb/A	CATION EXCHANGE CAPACITY	% BASE SATURATION				BUFFER pH	LIME RECOMM. TONS/ACRE	LIME TYPE	YIELD GOAL LEVEL
N	Ca	Mg	H																			
0005	001	0001			0.0	6.3	149		300	3.3	3875	392		11.0	0.0	0.0	0.0	15	0.0	0.0	0.0	
PREVIOUS CROP															RECOMMENDATION FOR							

TOTAL NUTRIENTS RECOMMENDED POUNDS PER		N	P ₂ O ₅	K ₂ O	Zn	Mn	B	Fe	Cu	S	FERTILIZER RECOMMENDATION		
ROW OR STARTER APPLICATION	Apply _____ lbs.												
NITROGEN PROGRAM PER ACRE	CORN: Apply _____ lbs. of actual nitrogen WHEAT: Top dress in spring with _____ lbs. of actual nitrogen												
BROADCAST FERTILIZER PROGRAM	Apply _____ lbs. of _____ per acre Apply _____ lbs. of _____ per acre Apply _____ lbs. of _____ per acre Apply _____ lbs. of _____ per acre												
SULFUR PROGRAM	Apply _____ lbs. of _____ per acre												
MICRO-NUTRIENT RECOMMENDATION	Apply _____ lbs. of _____ per acre Apply _____ lbs. of _____ per acre Apply _____ lbs. of _____ per acre												
WEED CONTROL	Apply _____ of _____ application per acre As a _____ of _____ application per acre												
INSECTICIDE	As a _____ application per acre												
SEED RECOMMENDATION	VARIETY	POPULATION	ROW WIDTH	TOTAL PER ACRE		N		P ₂ O ₅		K ₂ O		COST	



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 DUE TO VARIATIONS IN WEATHER, SOIL CONDITIONS AND OTHER MATTERS, NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO CROP PERFORMANCE.