

Created: 11/11/04	Plotted: 11/11/04	Scale: 1:50	City of Napoleon Engineering Department	City Engineer
Drawn: Mark B. Spless	Approved: Tom Zimmerman		255 Co. Rd. R - Custom Agri Systems, Inc.	Sanitary Service Installation
Sheet 00 of 00	Draining Name: Co Rd R 255.dwg		City of Napoleon Engineering Department 255 W. RiverView Ave., P.O. Box 131 Napoleon, Ohio 43545 Phone: (419) 592-1010 Fax: (419) 593-0393	Plans Prepared By City of Napoleon Engineering Department Joseph R. Kleiner, P.E.
			No.	Date
			Revision	Chgd. By



State of Ohio Environmental Protection Agency

255 Co. Rd. R

STREET ADDRESS:

1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

October 20, 1998

Re: Napoleon
Henry County
Application No. 03-11612
Application for Sewage Treatment Facilities for
Office/Equipment Storage Building at 13147
County Road "R"
Plans Received September 14, 1998
From New Dimensions

CERTIFIED MAIL

Custom Agri Systems, Inc.
Attn: Brad Storch
2296 North Scott Street
Napoleon, OH 43545

Ladies and Gentlemen:

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

You are hereby notified that this action of the director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code by any person who was a party to this proceeding. 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 with the Environmental Review Appeals Commission within thirty (30) days after notice of the director's action. A copy of the appeal must be served on the director of the Ohio Environmental Protection Agency and the Environmental Enforcement Section of the Office of the Attorney General within three (3) days of filing with the board. An appeal must be filed with the Environmental Review Appeals Commission at 236 East Town Street, Room 300, Columbus, OH 43266-0557.

You should note that a general condition of your permit states that issuance of the permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

If you have any questions, please contact the Ohio EPA district office to which you submitted your application.

Sincerely

Martha D. Spurbeck

Martha D. Spurbeck, Supervisor
Permit Processing Unit
Division of Surface Water

MDS/kep

Enclosure

cc: Northwest District Office
Henry County Health Department
New Dimensions

George V. Voinovich, Governor
Nancy P. Hollister, Lt. Governor
Donald R. Schregardus, Director

Ohio Environmental Protection Agency

Permit to Install

Application No. 03-11612

Applicant's Name: Custom Agri Systems, Inc.

Address: 2296 North Scott Street

City: Napoleon

State: Ohio 43545

Person to Contact: Brad Storch
Telephone: (419) 592-5180

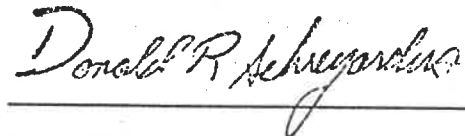
Description of Proposed Source: Sewage Treatment Facilities for Office/Equipment Storage Building, at 13147 County Road "R", Napoleon, Henry County

Issuance Date: October 20, 1998

Effective Date: October 20, 1998

The above named entity is hereby granted a permit to install for the above described source 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 source 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 source of pollutants will be granted the necessary operating permits. This permit is granted subject to the following conditions attached hereto.

Ohio Environmental Protection Agency



Donald R. Schregardus
Director
P. O. Box 1049, 1800 WaterMark Drive
Columbus, OH 43266-0149

This permit shall expire if construction has not been initiated by the applicant within eighteen months of the effective date of this permit. By accepting this permit, the applicant acknowledges that this eighteen month period shall not be considered or construed as extending or having any effect whatsoever on any compliance schedule or deadline set forth in any administrative or court order issued to or binding upon the permit applicant, and the applicant shall abide by such compliance schedules or deadlines to avoid the initiation of additional legal action by the Ohio EPA.

The director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records, or reports pertaining to the construction, modification, or installation of the above described source of environmental pollutants.

Issuance of this permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

Any well, well point, pit, or other device installed for the purpose of lowering the ground water level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of this plan or as directed by the director or his representative.

Any person installing any well, well point, pit or other device used for the purpose of removing ground water from an aquifer shall complete and file a Well Log and Drilling Report form with the Ohio Department of Natural Resources, Division of Water, within 30 days of the well completion in accordance with the Ohio Revised code Section 1521.01 and 1521.05. In addition, any such facility that has a capacity to withdraw waters of the state in an amount greater than 100,000 gallons per day from all sources shall be registered by the owner with the chief of the Division of Water, Ohio Department of Natural Resources, within three months after the facility is completed in accordance with Section 1521.16 of the Ohio Revised Code. For copies of the necessary well log, drilling report, or registration forms, please contact:

Ohio Department of Natural Resources
Fountain Square
Columbus, OH 43224-1387
(514) 265-6717

The proposed wastewater disposal system shall be constructed in strict accordance with the plans and application approved by the director of the Ohio Environmental Protection Agency. There shall be no deviation from these plans without the prior express, written approval of the agency. Any deviations from these plans or the above conditions may lead to such sanctions and penalties as provided for under Ohio law. Approval of this plan and issuance of this permit does not constitute an assurance by the Ohio Environmental Protection Agency 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 are inadequate or cannot meet applicable standards.

This permit applies only to the proposed wastewater disposal system. All other aspects of the proposed projects must be approved by the Ohio Department of Health and/or the local health department.

Memorandum

To: Brent N. Damman - Zoning Administrator
From: Adam C. Hoff, P.E. - City Engineer
cc: Mike Heise, Jeff Marihugh, Rex Moll *AH*
Date: October 12, 1998
Subject: Custom Agri-Systems - Plan Review

Based upon our review of the revised site plan submitted for the referenced project, I hereby approve the proposed plan as submitted and currently on file. A zoning permit may issued to the developer for the proposed improvements. If you have any questions, please see me.

NEW

DIMENSIONS

P.O. Box 174, 1445 N. Scott St.
Napoleon, Ohio 43545
Phone & Fax:
419/599-8339

Ron Sonnenberg
Drafting, Design,
Construction &
Planning Assistance

~LETTER OF TRANSMITTAL~

TO: CITY OF NAPOLEON DATE: 8-31-98

ATTN: BRENT & ADAM REFERENCE: CUSTOM AGRICULTURE SYSTEMS -
TWP. ROAD "R"

ENCLOSED PLEASE FIND THE FOLLOWING:

Shop Drawings Prints Plans Samples Specifications
 Copy of letter Change order Other

DESCRIPTION:

PRELIM. SITE PLANS - 2 COPIES
DRAINAGE CALCS. - 1 COPY

THESE ARE TRANSMITTED AS FOLLOWS:

For Approval Approved as submitted Revise and resubmit copies for approval
 For your use Approved as noted Submit copies for distribution
 As requested Returned for corrections Return corrected prints
 For review and comment Prin.'s returned after loan to us
 For bids due , 19 Other

REMARKS:

PLEASE REVIEW THE ATTACHED AND ADVISE ME OF ANY QUESTIONS OR
CONCERNS YOU MAY HAVE. MAJORITY OF PAVEMENT WOULD BE
GRAVEL AT THIS TIME HOWEVER I HAVE ASSUMED ALL ASPHALT OR
CONC. PAVEMENT FOR PURPOSES OF DRAINAGE CALCS. I'LL CHECK
WITH YOU LATER IN THE WEEK, IF YOU NEED A REVIEW FEE PAID
I'LL GET IT TO YOU THEN.
THANKS!
Ron

Storm Water Calculations					
Project: CUSTOM ARGI SERVICE, TWP. RD. R, NAPOLEON, OHIO					
Runoff flows & Coefficients, Pre & Post development					
By:RDS		Date: Aug. 28, 1998			
1) Existing (Pre-development) runoff:					
	Area(Ac.)	Land use description	"C"	"I" in/hr	"Q" cfs
	6.651	Grassed area	0.35	2.60	6.052
	0.023	Building roof	0.85	2.60	0.051
	0.280	Existing pond area	0.00	2.60	0.000
	0.046	Gravel pavement	0.45	2.60	0.054
			Total Existing Runoff		6.157
2) Proposed (Post-development) runoff:					
Project Description:					
Calculations are based on an initial development with 27,992 s.f. of proposed and future building area, a 0.4 acre pond, 45,531 square feet of future asphalt pavement area and 2,554 square feet of concrete sidewalks and approaches.					
	Area(Ac.)	Land use description	"C"	"CA"	
	0.643	Building roof	0.90	0.579	
	0.400	Pond area	0.00	0.000	
	0.059	Concrete pavement	0.90	0.053	
	1.045	Asphalt pavement	0.85	0.888	
	4.853	Lawn-grassed area	0.35	1.699	
	7.000	TOTAL AREA		TOTAL	3.219
		Weighted "C" =	TOTAL "CA"	3.219	
			TOTAL "A"	7.000	
		Weighted "C" =	0.460		
3) Proposed (Post-development) runoff:					
	Area(Ac.)	Land use description	"C"	"I" in/hr	"Q" cfs
	7.000	See "2" Above	0.460	2.60	8.368
			Total Proposed Runoff		8.368
4) Critical Storm Determination:					
(8.368-6.157)/(6.157)=0.359 or 35.9% therefore :				Critical Storm = 5 Year	

Storm Water Calculations						
Project: CUSTOM AGRI SERVICE, TWP. RD. R, NAPOLEON, OHIO						
Storm Water Detention Calculations						
By:RDS	Date: Aug. 28, 1998					
Site Area:	7.000					
Weighted "C"	0.460					
"T"(min.)	"I"(in/hr)	"CA"	"Q" in (cfs)	"Q" out (cfs)	"Q" in-"Q"out (cfs)	Detention Volume(c.f.)
Time of Concentration	Intensity 5 Year Storm					
20	3.15	3.2186	10.14	6.157	3.98	4778
30	2.50	3.2186	8.05	6.157	1.89	3401
40	2.07	3.2186	6.66	6.157	0.51	1213
50	1.78	3.2186	5.73	6.157	-0.43	-1284
60	1.58	3.2186	5.09	6.157	-1.07	-3858
70	0.00	3.2186	0.00	6.157	-6.16	-25860
80	0.00	3.2186	0.00	6.157	-6.16	-29554
90	0.00	3.2186	0.00	6.157	-6.16	-33248
100	0.00	3.2186	0.00	6.157	-6.16	-36942
110	0.00	3.2186	0.00	6.157	-6.16	-40637
120	0.00	3.2186	0.00	6.157	-6.16	-44331
130	0.00	3.2186	0.00	6.157	-6.16	-48025
140	0.00	3.2186	0.00	6.157	-6.16	-51719
150	0.00	3.2186	0.00	6.157	-6.16	-55414
160	0.00	3.2186	0.00	6.157	-6.16	-59108
170	0.00	3.2186	0.00	6.157	-6.16	-62802
180	0.00	3.2186	0.00	6.157	-6.16	-66496
190	0.00	3.2186	0.00	6.157	-6.16	-70190
200	0.00	3.2186	0.00	6.157	-6.16	-73885
210	0.00	3.2186	0.00	6.157	-6.16	-77579
220	0.00	3.2186	0.00	6.157	-6.16	-81273
230	0.00	3.2186	0.00	6.157	-6.16	-84967
240	0.00	3.2186	0.00	6.157	-6.16	-88662
250	0.00	3.2186	0.00	6.157	-6.16	-92356
260	0.00	3.2186	0.00	6.157	-6.16	-96050
270	0.00	3.2186	0.00	6.157	-6.16	-99744
Minimum Detention Volume Required =					4778	Cubic Feet
Area required for 1' depth of storage =					0.110	Acres
Area required for 1.5' depth of storage =					0.073	Acres
Area required for 2' depth of storage =					0.055	Acres
Area required for 2.5' depth of storage =					0.044	Acres

Storm Water Calculations					
Project: CUSTOM AGRI SERVICE, TWP. RD. R, NAPOLEON, OHIO					
Drainage Area Flow Calculations					
R.D.S.	Date: Aug. 28, 1998				
				Design Storm "I" in./hr.=	3.74
Area 1	Description:			Time/Concentration "T" m	20
	Eastern roof drain to pond				
				10 Yr. Stm.	
	Area(Ac.)	Land use description	"C"	"I" in/hr	"Q" cfs
	0.182	Building roof	0.9	3.74	0.613
	0.000	Asphalt pavement	0.85	3.74	0.000
	0.000	Concrete pavement	0.90	3.74	0.000
	0.000	Lawn-grassed area	0.25	3.74	0.000
			Total Flow ~ Area 1		0.613
Area 2	Description:				
	Western roof drain to pond				
				10 Yr. Stm.	
	Area(Ac.)	Land use description	"C"	"I" in/hr	"Q" cfs
	0.323	Building roof	0.90	3.74	1.087
	0.000	Asphalt pavement	0.85	3.74	0.000
	0.000	Concrete pavement	0.90	3.74	0.000
	0.000	Lawn-grassed area	0.25	3.74	0.000
			Total Flow ~ Area 2		1.087
Outlet size; flow requirement			Critical Storm "I" in./hr.=	3.15	
	Description:			Time/Concentration "T" m	20
	Total site draining to City storm sewer			5 Yr. Stm.	
	Area(Ac.)	Weighted "C"	"I" in/hr	"Q" cfs	
	7.000	Total site 0.460	3.15	10.143	
		Total Flow =		10.143	
Maximum discharge allowable per City of Napoleon = Q2 = <u>6.157</u>					
EXISTING STORM OUTLETS FROM PROPERTY:					
1) 8" field tile outlet to U.S. Route 6 & 24 Ditch, West side of property = 0.4 cfs (estimated)					
2) 8" field tile outlet to U.S. Route 6 & 24 Ditch, East side of property = 0.4 cfs (estimated)					
3) Township Rd. R road ditch west @ northwest corner of property = 2.4 cfs (estimated)					
4) Township Rd. R road ditch east @ northeast corner of property = <u>3.3 cfs</u> (estimated)					
EXISTING STORM OUTLET CAPACITY FROM PROPERTY: = 6.5 cfs (estimated)					
NOTE: ONLY EXISTING STORM DRAINAGE OUTLETS ARE TO BE UTILIZED. NO ADDITIONAL STORM OUTLETS FROM PROPERTY ARE PROPOSED.					
Storm water detention is provided by means of the new pond and also					
in the drainage swales on either side of the entrance drive as well as					
the swale along the west property line.					