

COLORADO DISCHARGE PERMIT SYSTEM (CDPS)

SUMMARY OF RATIONALE

MURPHY-BROWN, LLC

CDPS PERMIT NUMBER COB 007000, YUMA COUNTY

I. TYPE OF PERMIT Housed Commercial Swine Feeding Operation – Colorado Discharge Permit

II. COMPANY INFORMATION

A. Facility Type: Housed Commercial Swine Feeding Operation – Land Application
Annual Fee: \$0.26 per animal, based on the facility's working capacity
Working Capacity: 219,796 animals
Total Annual Fee: \$57,146.96

B. SIC Code: 0213

C. Legal Contact: Kraig Westerbeek,
Assistant V.P, Environmental Health and Safety Compliance
Murphy-Brown, LLC
806 W. 8th Ave
Yuma, CO 80759
Phone: (910) 293-5330

D. Local Contacts: Dwain Weinrich
Operations Manager
Murphy-Brown, LLC
806 W. 8th Ave
Yuma, CO 80759
Phone: (970) 848-3242

Julie McCaleb
Environmental Manger
Murphy-Brown, LLC
806 W. 8th Ave
Yuma, CO 80759
Phone: (970) 848-3902

III. FACILITY INFORMATION

Seedorf Complex

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 26519 County Road C, Yuma, CO 80759, Yuma County

Stulp Complex

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 24557 County Road J, Yuma, CO 80759, Yuma County

Winger GDU-Farm 303

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 17251 County Road J, Yuma, CO 80759, Yuma County

Badger Finisher-Farm 304

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 14378 County Road 26, Yuma, CO 80759, Yuma County

Hilltop Finisher-Farm 305

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 32811 County Road L, Yuma, CO 80759, Yuma County

Prairie View Sow

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 28498 County Road Q, Eckley, CO 80727, Yuma County

Wilke-Gilt Farm/Nursery Farm

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 27998 County Road N, Eckley, CO 80727, Yuma County

Sunrise-Farm 111

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 44425 County Road Q, Eckley, CO 80727, Yuma County

Pheasant Run-Farm 112

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 41076 County Road N, Yuma, CO 80759, Yuma County

Jack Rabbit-Farm 113

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 41424 County Road N, Yuma, CO 80759 Yuma County

Box Turtle- Farm 114

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 8502 County Road 28, Yuma, CO 80759, Yuma County

Tree Row- Farm 115

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 7451 County Road 28, Yuma, CO 80759, Yuma County

Coyote Run- Farm 116

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 7455 County Road 28, Yuma, CO 80759, Yuma County

Gaytan- Farm 117

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 7465 County Road 28, Yuma, CO 80759, Yuma County

Browns Nursery- Farm 211

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 13663 County Road 44, Eckley, CO 80727, Yuma County

Sunflower Nursery- Farm 212

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 9440 County Road 45, Yuma, CO 80759, Yuma County

Sigmon Nursery- Farm 214

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 29443 County Road H, Yuma, CO 80759, Yuma County

Outback Nursery- Farm 217

Local Contact: Julie McCaleb, (970) 848-3902
Facility Location: 46501 County Road Q, Yuma, CO 80759, Yuma County

Colorado Boar Stud- Farm 49770

Local Contact: Julie McCaleb, (970) 848-3902

Facility Location: 12678 County Road 32, Yuma, CO 80759, Yuma County

IV. FACILITY DESCRIPTION

Location of operation units and land application sites for the following facilities are listed in the Permit at Part 1.A.1:

- A. Seedorf Complex consists of two nursery barns, 14 finisher barns, and 13 sow barns located at the individual Seedorf Complex sites shown in the table below. Housing capacities of the barns at each site and total housing capacity for the Seedorf Complex are as follows:

Operation Type	Number of barns	Number of animals
Nursery	2	30,840
Finisher	14	15,648
Sow	13	12,524-Sows 40-Boars
Totals	29	59,052

Swine feeding process wastewater and residual solids from the Seedorf Complex sites are collected and treated in impoundment systems as shown in the table below prior to disposal via land application.

Site	Number of Impoundments	
	Primary	Secondary
Seedorf 101& 102 Sow	2	1
Horizon Sow Site- Farm 103	1	1
Sandhill and Horseshoe Farm 105 & 107	1	1
Hunter Finish Site	1	0
Anchor Finish Site	2	1*
Big Sky Nursery	1	1

*The secondary impoundment at the Anchor Finish Site does not have a certified liner that meets the seepage rate requirements found in 61.13(4)(c)(iii). This secondary impoundment has never been used to store or treat swine feeding process wastewater. Before swine feeding process wastewater can be allowed to enter the Anchor Site Secondary impoundment, Murphy-Brown LLC must submit to the Division the proper documentation showing the impoundment meets the requirements of 61.13(4)(c)(iii).

Figure 1 of the permit is a map showing the locations of the Seedorf Complex sites. Figures 2 through 7 of the permit are site maps of the individual farms in the Seedorf Complex.

- B. Stulp Complex consists of eight finisher barns and three sow barns (nursery is included in one sow barn) located at the individual Stulp Facility sites shown in the table below. Housing capacities of the barns at each site and total housing capacity for the Stulp Facility is as follows:

Operation Type	Number of barns	Number of animals
Finisher	8	8,448
Sow	3	3,879-Sows 20-Boars
Totals	11	12,338

Swine feeding process wastewater and residual solids from the Stulp Sow Site and Nursery and from the Stulp Grow/Finish Site are collected and treated in two-cell

impoundment systems located at each site prior to disposal via land application.

Figure 8 of the permit is a map showing the locations of the Stulp Facility sites. Figure 9 of the permit is a site map of the Stulp Sow Farm. Figure 10 of the permit is a site map of the Stulp Grow/Finish Site.

- C. Winger Grow/Finish consists of 16 finisher barns with a total housing capacity of 16,896 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment system prior to disposal via land application.

Figure 11 of the permit is a map showing the location of the Winger Grow finish facility. Figure 12 of the permit is a site map of the Winger Grow Finish facility showing the production units and impoundments.

- D. Badger Grow/Finish Site consists of 16 finisher barns with a total housing capacity of 25,344 animals. Swine feeding process wastewater and residual solids are collected and treated in two-cell impoundment system prior to disposal via land application.

Figure 13 of the permit is a map showing the location of the badger Grow/Finish Site. Figure 14 of the permit is a site map of the Badger Grow/Finish Site showing the production units and impoundments.

- E. Hilltop Grow/Finish Site consists of 16 finisher barns with a total capacity of 25,344 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment system prior to disposal via land application.

Figures 15 and 16 of the permit are maps showing the location of the Hilltop Grow/Finish Site. Figure 17 is a site map of the Hilltop Grow/Finish Site showing the production units and impoundments.

- F. Prairie View Sow consists of seven sow barns with a total housing capacity of 3,322 animals. Swine feeding process wastewater is collected and treated in a two-cell impoundment prior to disposal via land application from Cell 2.

Figure 18 of the permit is a site map of Prairie View Sow showing the operation units and impoundments.

- G. Wilke-Gilt Farm/Nursery Farm consists of one barn with a total housing capacity of 2,100 animals or 8,400 animals. Two production flows have been approved for this facility to allow for flexibility in animal management as described below. Swine feeding process wastewater is collected and treated in a single-cell impoundment system prior to disposal via land application.

Production Flow 1: Gilt Farm provides for 2,100 gilts. Production Flow 2: Nursery provides for 8,400 nursery pigs.

Figure 19 of the permit is a site map of the Farm showing the location of the operation unit and lagoon.

- H. Sunrise- Farm 111 consists of seven sow barns with a total capacity of 2,750. Swine feeding process wastewater and residual solids are collected and treated in a three-cell impoundment system prior to disposal via land application.

Figure 20 of the permit is a map showing the location of Sunrise- Farm 111. Figure 21 of the permit is a site map of Sunrise- Farm 111 showing the operation units and impoundments.

- I. Pheasant Run- Farm 112 consists of three sow barns with a total housing capacity of 2,488 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment prior to disposal via land application.

Figure 22 of the permit is a site map showing the location of Pheasant Run- Farm 112. Figure 23 of the permit is a site map of Pheasant Run- Farm 112 showing the production units and impoundments.

- J. Jack Rabbit- Farm 113 consists of three sow barns and one isolation barn with a total housing capacity of 3,088 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell

impoundment prior to disposal via land application.

Figure 24 of the permit is a map showing the location of Jack Rabbit – Farm 113. Figure 25 of the permit is a site map of Jack Rabbit – Farm 113 showing the production units and impoundments.

- K. Box Turtle- Farm 114 consists of four sow barns with a total housing capacity of 2,488 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment prior to disposal via land application.

Figures 26 and 27 of the permit are maps showing the location of Box Turtle – Farm 114. Figure 28 of the permit is a site map of Box Turtle – Farm 114 showing the production units and impoundments

- L. Tree Row- Farm 115 consists of three sow barns and one isolation barn with a total housing capacity of 3,088 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment system prior to disposal via land application.

Figure 29 of the permit is a map showing the location of Tree Row – Farm 115. Figure 30 of the permit is a site map of Tree Row – Farm 115 showing the production units and impoundments.

- M. Coyote Run- Farm 116 consists of three sow barns and one isolation barn with a total housing capacity of 3,088 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment system prior to disposal via land application.

Figure 31 of the permit is a map showing the location of Coyote Run – Farm 116. Figure 32 of the permit is a site map of Coyote Run – Farm 116 showing the production units and impoundments.

- N. Gaytan-Farm 117 consists of four sow breeding barns, one farrowing barn and one isolation barn with a total housing capacity of 5,880 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment system prior to disposal via land application.

Figure 33 of the permit is a map showing the location of Gaytan – Farm 117. Figure 34 of the permit is a site map of Gaytan – Farm 117 showing the production units and impoundments.

- O. Browns Nursery- Farm 211 consists of one nursery barn with a housing capacity of 8,000 animals. Swine feeding process wastewater and residual solids are collected and treated in a three-cell impoundment system prior to disposal via land application.

Figure 35 of the permit is a map showing the location of Browns Nursery. Figure 36 of the permit is a site map of Browns Nursery showing the production unit and impoundments.

- P. Sunflower Nursery-Farm 212 consists of four nursery barns with a total housing capacity of 14,000 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment prior to disposal via land application.

Figure 37 of the permit is a map showing the location of Sunflower Nursery. Figure 38 of the permit is a site map of Sunflower Nursery showing the production units and impoundment.

- Q. Sigmon Nursery-Farm 211 consists of nine finisher barns with a total housing capacity of 16,000 animals. Swine feeding process wastewater and residual solids are collected and treated in a single-cell impoundment prior to disposal via land application.

Figure 39 of the permit is a map showing the location of Sigmon Nursery. Figure 40 of the permit is a site map of Sigmon Nursery showing the production units and impoundment.

- R. Outback Nursery- Farm 217 consists of two nursery barns with a total housing capacity of 8,000 animals. Swine feeding process wastewater and residual solids are collected and treated in a two-cell impoundment prior to disposal via land application.

Figure 41 of the permit is a map showing the location of Outback Nursery. Figure 42 of the permit is a site

map of Outback Nursery showing the production units and impoundment.

- S. Colorado Boar Stud- Farm 49770 consists of two boar stud barns with a total housing capacity of 230 animals. Swine feeding process wastewater and residual solids are collected and treated in a concrete wastewater storage tank, which is constructed at ground level, prior to disposal via land application.

Figure 43 of the permit is a map showing the location of the Colorado Boar Stud facility. Figure 44 of the permit is a site map of the Colorado Boar Stud facility showing the production units and concrete tank.

V. TERMS AND CONDITIONS OF PERMIT

Specific Compliance Requirements

- A. Compliance with Design and Siting Criteria: The permittee submitted a complete permit application including a Construction Plan containing the necessary information to allow the Division of Environmental Health and Sustainability's Environmental Agriculture Program (Division) to evaluate compliance with applicable design criteria and water quality setbacks. The Division's review indicates that the facility, as constructed, complies with all applicable design and siting criteria.
- B. Facility Location: Facility location requirements are provided in Part I.B.1 of the permit.
- C. Operations: Operational standards and requirements for the Operations Plan (including approval, compliance, implementation, and revisions) are provided in Part I.B.2 of the permit.

A revised Operations Plan was submitted with the permit renewal application in September 2014. The Environmental Agriculture Program will consider the permittee's Operations Plan as approved after the Public Notice period has ended.

- D. Swine Waste Management: Swine waste management standards and requirements for the Swine Waste Management Plan (including approval, compliance, implementation, and revisions) are presented in Part I.B.3 of the permit.

A revised Swine Waste Management Plan was submitted with the permit renewal application in September 2014. The SWMP was updated during the most recent permit renewal process to incorporate language from the HCSFO Wildfire Memorandum of Understanding (MOU) issued by the Division. The Environmental Agriculture Program will consider the permittee's Swine Waste Management Plan as approved after the Public Notice period has ended.

- E. Spills: Spill remediation and "de minimis" spill definition requirements are presented in Part I.B.4 of the permit. The "de minimis" spill definition was approved by the state on January 2, 2007..
- F. Monitoring: Monitoring standards and requirements for the Monitoring Plan (including approval, compliance, implementation, and revisions) are presented in Part I.B.5 of the permit.

The permittee did not submit a revised Monitoring Plan with the permit renewal application. The Monitoring Plan will be reviewed for approval at a later date.

- G. Financial Assurance: Financial assurance standards and requirements for the Financial Assurance Plan (including approval, compliance, implementation, and revisions) are presented in Part I.B.6 of the permit.

The Division approved the permittee's current Financial Assurance Plan on November 1, 2010. The permittee will be required to submit an updated Financial Assurance Plan 90 days after the effective date of the permit.

- H. Compliance Schedule Requirement: Part I.B.7 of the permit includes the following compliance schedule items:

	Item	Deadline
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1	For the Swine Waste Management Plan (SWMP) baseline swine feeding process wastewater constituent values for the Gilt Farm or the Nursery production flows at the Wilke Gilt Farm/Nursery Farm once a production flow has been initiated.	Submit to the Division by no later than 60 days after a six-month stabilizing period for the impoundment at the Wilke Gilt Farm/Nursery Farm.
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I. Recordkeeping Requirements: Recordkeeping requirements are presented in Part I.B.8 of the permit.

Reporting

- A. Quarterly Monitoring Report: The permittee must submit a Quarterly Monitoring Report (QMR) to the Division and to the local health department. Reports shall contain the test results for monitoring required per Part I.B.5 of the permit. See the permit, Part I.B.9 for details on QMR submission.
- B. Special Reports: Special reports are required in the event of a spill, bypass, or other noncompliance. Refer to parts I.B.4, I.B.9, and II.B. of the permit for reporting requirements.

Additional Terms and Conditions

- A. Signatory and Certification Requirements: Signatory and certification requirements for reports and submittals are discussed in Part I.B.10 of the permit.

VI. REFERENCES

Colorado Water Quality Control Commission. Regulation No. 61, Colorado Discharge Permit System Regulations, (5 CCR 1002-61). Denver: Colorado Department of Public Health and Environment, as amended December 12, 2011 and effective January 30, 2012.

Colorado Department of Public Health and Environment, Division of Environmental Health and Sustainability, Environmental Agriculture Program, Colorado Nutrient Management Technical Standards. Denver, Colorado. July 2014.

Thaine C. Kramer
Environmental Agriculture Program
Colorado Department of Public Health and Environment
November 10, 2014

VII. PUBLIC NOTICE COMMENTS