



**PROFESSIONAL ENGINEER CERTIFICATION -  
CONSTRUCTION OF MANURE STORAGE POND OR LAGOON**

**ODA FORM ECERT-PL (Rev 9/2017)**

**INSTRUCTIONS**

1. Use this form to certify construction of a liquid manure storage structure as required in OAC 901:10-2-01
2. Fill in all information requested COMPLETELY.
3. If additional space is needed for any portion of this form, include information on attachments as necessary.
4. Attach narratives, supporting documentation and testing results as applicable and needed.
5. This certification form must be completed, submitted, and approved by ODA-DLEP prior to the stocking of additional animals or use of the manure storage structure.
6. A professional engineer registered in the State of Ohio must certify this form.
7. Submit the Owner's Notarized Statement of Construction Conformity, along with this certification as required by OAC 901:10-2-01
8. Return this form to the address listed above.
9. Please maintain a copy of this form with your facility as-built drawings and documentation.
10. For more information, contact the ODA Division of Livestock Environmental Permitting at 614-387-0470.

**GENERAL FACILITY INFORMATION**

Facility Name (as it appears in the permit documents)	PTI#
Facility Contact Person	
Facility Address (number and street)	Telephone Number
City	Zip Code
County of Operation	Facility Contact Email
Location of Manure Storage Structure if different from Facility Address Above (nearest crossroads or mailing address)	

**CERTIFYING PROFESSIONAL ENGINEER INFORMATION**

Name	PE License Number
Company Name	Email Address
Address (number and street)	Telephone Number
City	ZIP Code



## GENERAL CONSTRUCTION INFORMATION

Construction Start Date (month, day, year)	Construction Complete Date (month, day, year)
Name of Prime Contractor (If Applicable)	Telephone Number of Contractor
Name of the Manure Storage Structure (as it appears in the PTI)	

**CONSTRUCTION DETAILS:** The following are the aspects of the earthen structure that must be reviewed by the certifying engineer or their representative for compliance with the approved plans, specifications, and permit documents. Please attach applicable supporting documentation and testing results with this form (i.e. photographs, QA/QC inspection reports, soil compaction test results, laboratory test results, daily logs, etc.).

1.	EARTHWORK	YES	NO	N/A
a	Was the exploratory trench properly constructed as per approved plans and specifications so that no drainage field tiles remain within 50 feet of any manure ponds or lagoons, unless specifically approved as part of the design?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Was the subgrade prepared and graded as required by the plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Was the subgrade visually inspected and approved by the certifying engineer, or other designated representative, in accordance with the approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Was the subgrade proof-rolled in accordance with the approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Were unsuitable soils removed and replaced in accordance with the approved plans and specifications? Explain below.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Was documentation provided by the responsible party for pre-qualification and selection of appropriate engineered fill materials as required by the approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g	Was fill material tested at regular intervals in accordance with the approved plans and specifications to confirm that compaction requirements were met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h	In the professional judgement of the certifying engineer, was earthwork construction performed in accordance with the approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**COMMENTS: (Explain any "No" answers)**

2.	SOIL LINER SYSTEM	YES	NO	N/A
a	Was documentation provided by the responsible party for pre-qualification and selection of appropriate soil liner materials as required by approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If borrow soil characteristics changed, was additional testing performed to verify the material met the approved plan requirements and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Was soil liner material placed in loose lifts not exceeding plan requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Did contractor take appropriate precautions to obtain and maintain appropriate moisture content of soil liner material during and after installation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Was soil liner compaction tested at regular intervals in accordance with the approved plans and specifications to confirm that compaction and moisture requirements were met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	In the professional judgement of the certifying engineer, was the soil liner constructed in accordance with the approved plans and specifications and documented with necessary testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>COMMENTS: (Explain any "No" answers)</b>				
3.	GEOMEMBRANE INSTALLATION (if applicable)	YES	NO	N/A
a	Did all liner materials and appurtenances meet the requirements of the approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Was the liner installed and located in accordance with the manufacturer's specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	In the professional judgement of the certifying engineer, was the liner installed in accordance with the approved plans and specifications and documented with necessary testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Was the perimeter or under drainage system installed as required on the approved plans and specifications or a subsequent approved modification?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Was an observation stand pipe installed as per plan (if applicable)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the final as-built location of the drainage system components and outlet accurately shown on the as-built drawings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**COMMENTS: (Explain any "No" answers)**

4.	STAFF GAUGES/LIQUID LEVEL MARKERS	YES	NO	N/A
a	Were staff gauges/liquid level markers installed and located as per approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Were the final interior surfaces of ponds/lagoons surveyed to determine the as-built volumes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Was the Maximum Operating Level (MOL) properly marked on the staff gauge and the elevation based on the as-built survey?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Were the depth-to-volume charts updated on the as-built drawings to accurately reflect the actual volumes for each pond/lagoon based on the as-built survey?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**COMMENTS: (Explain any "No" answers)**

5.	RECORD/AS-BUILT DRAWINGS	YES	NO	N/A
a	Were scaled as-built drawings prepared under the supervision of a professional engineer registered in the State of Ohio?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Do the as-built drawings accurately reflect the actual as-built conditions? (to include plan and profiles; elevations and volumes based on the as-built survey; exploratory trenches; relocated field tile; staff gauges; revised depth to volume charts; etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

c	Were independent testing results and defensible construction documentation reviewed and consulted to verify adherence to the plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Do the as-built drawings show the final locations of all manure storage and treatment facilities relative to siting criteria (from property lines, residences, streams, roadways, wells, etc.), as required by the approved plans and specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Are the stamped as-built drawings included with this certification?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**COMMENTS: (Explain any "No" answers)**

**6. CHANGE ORDERS, MODIFICATIONS, DEVIATIONS, ETC.**

**Provide detailed explanation for any portions of construction that deviated from the approved plans and specifications. Attach additional sheets as necessary. Deviations from the approved plans and specifications must be approved by the engineer and shown on the record as-built drawings. Construction of manure storage or treatment facilities not meeting the approved plans, specifications and permit documents may result in denial of stocking approval and or usage of said structure.**

**7. PROFESSIONAL ENGINEER'S CERTIFICATION STATEMENT**

I, \_\_\_\_\_ (your name), being a Registered Professional Engineer in the State of Ohio, do hereby attest that, to the best of my knowledge, the information on and attached with this construction certification form for \_\_\_\_\_ (name of structure), constructed at \_\_\_\_\_ (facility name), is true and accurate. The construction inspection activities, either directly overseen by \_\_\_\_\_ or as documented by \_\_\_\_\_, have been reported to me to have been performed in accordance with the approved plans and specifications.

<b>Name</b> _____	<b>Date</b> _____ (month/day/year)
<b>Signature</b> _____ By signing this form, I attest that the information provided herein is true and accurate.	
<b>Ohio PE License Number</b> _____	
<b>Expiration Date</b> (month/day/year) _____	
<b>"SEAL"</b>	