

ASSORTED  
LATE ENTRIES  
ALPHA

DATE 8-22-12 STAFF \_\_\_\_\_ FAC. ST. \_\_\_\_\_ STATUS \_\_\_\_\_  
 FARM NAME Allen Thomas Dairy AG ID 70  
 FARM ADDRESS: 123 E Roosevelt Ave Ironclaw  
 FARM CONTACT \_\_\_\_\_  
 FARM CONTACT MAILING ADDRESS \_\_\_\_\_  
 # OF LAGOONS MANAGED UNDER NMP \_\_\_\_\_ THIS LAGOON ID \_\_\_\_\_

DUP

LONGITUDE \_\_\_\_\_ LATITUDE \_\_\_\_\_  
 WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN  
 TODAY LIQUID LEVEL IS 2 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

4 ft in lagoon

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?	✓		
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other <u>NA</u>			
a. Erosion of liner material?			✓
b. Damaged material (holes, tears, seams)?			✓
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	271	
3. Footprint - inside top - WIDTH	100	
4. Embankment - Inside SS	2:0	> 2H:1V
5. Embankment - Outside SS	3:0	> 2H:1V
6. Embankment - Top Width	20	
7. Embankment - Maximum Fill Height	4.5	
8. Maximum Excavation Depth	7.5	
9. Total POND Depth	11	
10. Liner type or soil amendment condition	7 Clay	
11. Inlet type location and condition	Submerged 6" pipe	
12. Outlet ramp condition	900	
13. Pump/agitation site condition	good	

COMMENTS:

2009-2010 certified by engineer.  
Brought up to spec then.

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES \_\_\_\_\_ NO

If brace - Drainage ditch NW - 30 P#

No houses  
No wells

10/26  
1 PM

**A. Site inventory**

LANDOWNER: BOUMA

SMALL  
WEST  
POND

OPERATOR: LOUIS BOUMA

AGID: **9876** FARM NAME: BOUMA FARMS DAIRY

LAGOON ID: 9876-1 Lat: 48.931000<sup>539</sup> Long: -122.495750<sup>6028</sup>

Phones: (360) 220-1375 Cell: (360) 354-2543 or 201-5386

FARM ADDRESS: 7973 FLYNN ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-26-12

MANURE/ EFFLUENT LEVEL: 70 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

*DUP*

WSP is FULL (Typically late winter or early spring)

DATE: 10-26-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: Showers

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?	X		
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	clay		
a. Erosion of liner material?		/	X
b. Damaged material (holes, tears, seams)?		/	X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

SOME BUCKBERRY

1. SOME INTERIOR BANK EROSION ALONG WEST BANK

AGID: 9876

FARM NAME: BOUMA FARMS DAIRY

LAGOON ID: 9876-1

Lat: 48.931000

Long: -122.495750

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?		/	
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?	/		
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		/	
9. Waste storage pond access fenced and properly marked?		/	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?	/		
14. Inlet pipes submerged?			/
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

LATE 2013

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	413,500 NET	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	96 NS	
4. Footprint - inside top - WIDTH	55 EW	
5. Embankment - Inside SS	1.5	> 2H:1V
6. Embankment - Outside SS	1.5	> 2H:1V
7. Embankment - Top Width	3'	
8. Embankment - Maximum Fill Height	15'	
9. Maximum Excavation Depth	15'	
10. Total POND Depth	15'	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA	NONE	HAS CEMENT BOTTOM
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, other		
14. Pump/agitation site condition	- RAMP-NE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		200 ON-SITE
19. Distance to nearest water course	FISH	160

FROM 2008 INV. REPORT

COMMENTS:

HAS RCVD PAST NOTICE OF CORRECTION FOR NARROW, STEEP GRADING  
~~EMBANKMENT~~  
 - CONCRETE BOTTOM

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9876      FARM NAME: **BOUMA FARMS DAIRY**

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: BOUMA

OPERATOR: LOUIS BOUMA

AGID: **9876** FARM NAME: BOUMA FARMS DAIRY

LAGOON ID: 9876-2 Lat: 48.932190<sup>1770</sup> Long: -122.495680<sup>183</sup>

Phones: (360) 220-1375 Cell: (360) 354-2543

N. POND  
BEHIND DAIRY

FARM ADDRESS: 7973 FLYNN ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-26-12

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10-26-12

Weather: SHOWERS

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	COY		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?		/	
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?	/		
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

BRICKBARRIES ON S. BANK - AGAINST SLUDGE BUNKER

AGID: 9876

FARM NAME: BOUMA FARMS DAIRY

LAGOON ID: 9876-2

Lat: 48.932190

Long: -122.495680

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>		
7. Diversions/waterways maintained?			<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>		
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>		
14. Inlet pipes submerged?		<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS + OPERATION DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	<del>3,250,218</del> 1,195,079	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	135'	
4. Footprint - inside top - WIDTH	135'	
5. Embankment - Inside SS	2.0	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	<del>20</del> 11'	
9. Maximum Excavation Depth	<del>20</del> 11'	
10. Total POND Depth	11'	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA	CONCRETE BOTTOM CLAY SIDES	
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other	NE CORNER	
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD - SW + NE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		300' UPHILL, >1500 DOWN
19. Distance to nearest water course		110

2003  
INS.  
RETORT.  
11 FT DEEP

COMMENTS:

CONCRETE BOTTOM

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES       NO

**C. Does it appear that the WSP been structurally modified?**

YES       NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9876 FARM NAME: **BOUMA FARMS DAIRY**

**Notes, drawings etc**



**A. Site inventory**

LANDOWNER: BOUMA

OPERATOR: LOUIS BOUMA

AGID: **9876** FARM NAME: BOUMA FARMS DAIRY

LAGOON ID: 9876-3 Lat: 48.921620<sup>711</sup> Long: -122.488260<sup>751</sup>

Phones: (360) 220-1375 Cell: (360) 354-2543

FARM ADDRESS: 7973 FLYNN ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-26-12

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 9 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10-26

Weather: SHOWERS

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	NO		
a. Erosion of liner material?		/	/
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?		/	
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?		/	
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?	/		
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	grazed		
9. Waste storage pond access fenced and properly marked?	fenced		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?		/	
14. Inlet pipes submerged?	/		
15. Downwind odor from WSP is:	Strong	Unbearable	

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 2002

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,000,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	170 NS	CIRCULAR POND
4. Footprint - inside top - WIDTH	170 EW	
5. Embankment - Inside SS	3	> 2H:1V
6. Embankment - Outside SS	3	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	7 EST	
9. Maximum Excavation Depth	3 "	
10. Total POND Depth <u>19?</u>	10 "	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD - CONCRETE	RAMP ENE
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		540' ON SITE
19. Distance to nearest water course		65'

COMMENTS:

NOT ON NMP

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9876 FARM NAME: **BOUMA FARMS DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: MIKE GONSER

OPERATOR: MIKE GONSER

AGID: **9887** FARM NAME: BRECKENRIDGE FARM DAIRY

LAGOON ID: 9887-1 Lat: 48.927870 Long: -122.305380

Phones: (360) 966-4343 Cell: (360) 966-2453

FARM ADDRESS: 3382 BRECKENRIDGE ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 11/2/2012

MANURE/ EFFLUENT LEVEL: 15 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 9<sup>+</sup> FT.

Completed by: MICHAEL ISENSEE Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 11-2-2012

Weather: SHOWERY

Temperature: 55°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	cosy?		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?	?		
i. Seepage around pipes thru berm?		X	

COMMENTS:

SOME BUCKBERRY + TALL WEEDS ON OUTER EMBANKMENT

3H - TOO WET TO TELL IF THERE IS SEEPAGE. STANDING WATER AT BOTTOM OF LAGOON

AGID: 9887

FARM NAME: BRECKENRIDGE FARM DAIRY

LAGOON ID: 9887-1

Lat: 48.927870

Long: -122.305380

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	-
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	GRAVITY		X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is:	Strong Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_ ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,750,000 NET	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	100 NS	
4. Footprint - inside top - WIDTH	300 EW	
5. Embankment - Inside SS	1:1	> 2H:1V
6. Embankment - Outside SS	1.5:1	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	14	
9. Maximum Excavation Depth	14	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, <input checked="" type="checkbox"/> Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	OK - SW	
15. Distance to nearest well/water depth in well in feet		320
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		320
19. Distance to nearest water course		430

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA UNK

If yes, list: Designer OPERATOR Date LATE 90'S

(1) Date of modification construction? LATE 90'S

(2) Description of structural modification: \_\_\_\_\_

EXTENDED LAGOON + INCREASED CAPACITY

(3) Describe impact of modification on structural integrity: UNK BUT LAGOON

HAS HIGH + RELATIVELY STEEP BANKS

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : UNK

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9887

FARM NAME: **BRECKENRIDGE FARM DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: SAME - ALL SOUTH NOOKSACK FARMS LLC

OPERATOR: JEFF RAINEY

AGID: **9707** FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID: 9707-1 Lat: 48.725650 Long: -122.203240  
Phones: (360) 595-2410 Cell:

FARM ADDRESS: 2304 VALLEY HIGHWAY DEMING WA 98244

REVIEW INVENTORY DATE: 12-13-12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

*dup*



WSP is FULL (Typically late winter or early spring)

DATE: 12-13-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: OVERCAST

Temperature: 40

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?	X - <i>alum</i>		
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?		X	
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		<	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

1) NOT VISIBLE - FULL

2) "

3) EMBANKMENT REPAIRS ~~OR CHANGE~~ VISIBLE IN GORGE  
EARTH 8/26/2011

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?			X
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?			X
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS ? DATE: ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,891,146 gross	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	145 NS	
4. Footprint - inside top - WIDTH	296 EW <u>PLAN</u>	<u>PLAN WAS FOR 230'</u>
5. Embankment - Inside SS	? 2:1	> 2H:1V
6. Embankment - Outside SS	4:1 5:1	> 2H:1V
7. Embankment - Top Width	10 10	
8. Embankment - Maximum Fill Height	5'	
9. Maximum Excavation Depth	? 4'	
10. Total POND Depth	? 9'	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		87' / <u>IRRIGATION ONLY</u>
16. Failure impacts: Farm Building, Homes, <u>Roads</u> , <u>Water Coursed</u>		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		407
19. Distance to nearest water course		800

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

       YES        NO        ?

C. Does it appear that the WSP been structurally modified?

  X   YES        NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO   NA     UNK  

If yes, list: Designer \_\_\_\_\_ Date   2011  

(1) Date of modification construction?   2011  ?

(2) Description of structural modification: \_\_\_\_\_

  APPEARS THAT W + N BANKS WERE MAINTAINED W GOOD MATERIAL DURING THE TIME LAGOON #4 WAS CONSTRUCTED  

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: :   NONE APPARENT  

  APPEARS TO HAVE MAINTAINED DESIGN OF ORIGINAL LAGOON  

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9707

FARM NAME: **COLDSTREAM FARMS DAIRY #1**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: SAME

OPERATOR: JEFF RAINEY

AGID: **9707** FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID: 9707-2 Lat: 48.725650<sup>9258</sup> Long: -122.203240<sup>197589</sup> 293ft

Phones: (360) 595-2410 Cell:

FARM ADDRESS: 2304 VALLEY HIGHWAY DEMING WA 98244

REVIEW INVENTORY DATE: 12-13-12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1.0 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

*dup*



WSP is FULL (Typically late winter or early spring)

DATE: 12-13-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: overcast

Temperature: 40

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	CSM		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?		/	
a. Due to burrowing animals?		↓	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?			/
b. Is storage capacity available for freeboard when pond is full?			/
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_ BEFORE 1998

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	188 NS	
4. Footprint - inside top - WIDTH	<del>188</del>	
5. Embankment - Inside SS	?	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	12'	
8. Embankment - Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		920
16. Failure impacts: Farm Building, Homes, Roads, <u>Water Coursed</u>		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		1300
19. Distance to nearest water course		160

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9707

FARM NAME: **COLDSTREAM FARMS DAIRY #1**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: SAMC

OPERATOR: JEFF RAINEY

AGID: **9707** FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID: 9707-3 Lat: 48.725650<sup>9503</sup> Long: -122.203240<sup>196755</sup>

Phones: (360) 595-2410 Cell:

FARM ADDRESS: 2304 VALLEY HIGHWAY DEMING WA 98244

REVIEW INVENTORY DATE: 12-13-12

MANURE/ EFFLUENT LEVEL: ~~100%~~ 90% <sup>108</sup>

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 108 FT.

Completed by: Michael I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

*DUP*

WSP is FULL (Typically late winter or early spring)

DATE: 12-13-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: overcast

Temperature: 40

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?	X		
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?		X	
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?			X
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_ *BEFORE 2005*

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	<i>180 NS</i>	
4. Footprint - inside top - WIDTH	<i>8' 316</i>	
5. Embankment - Inside SS	<i>2:1</i>	> 2H:1V
6. Embankment - Outside SS	<i>4:1</i>	> 2H:1V
7. Embankment - Top Width	<i>8'</i>	
8. Embankment - Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		<i>1060</i>
16. Failure impacts: Farm Building, Homes, Roads, <u>Water Coursed</u>		
17. Emptying feature is provided to protect against accidental release. (yes/ <u>no</u> ) if yes please describe in notes.		
18. Distance to nearest home/dwelling		<i>1475</i>
19. Distance to nearest water course		<i>270</i>

COMMENTS:

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AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9707 FARM NAME: **COLDSTREAM FARMS DAIRY #1**

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: SAME

OPERATOR: JEFF RAINEY

AGID: **9707** FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID: 9707-4 Lat: 48.697181 Long: -122.182515

Phones: (360) 595-2410 Cell: 48.729300 -122.195290

294  
~~283~~ ft

FARM ADDRESS: 2304 VALLEY HIGHWAY DEMING WA 98244

REVIEW INVENTORY DATE: 12-13-12

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 12-13-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:                     

Weather: overcast

Temperature: 40

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		↓	
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?	X		
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?		X	
a. Due to burrowing animals?		↓	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?			X
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?			X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS DATE: 2010

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 2011

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	3.5 million NET	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	188 NS	
4. Footprint - inside top - WIDTH	413	
5. Embankment - Inside SS	2:1 ☑ > 2H:1V	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	10'	
8. Embankment - Maximum Fill Height	9'	
9. Maximum Excavation Depth	6"	
10. Total POND Depth	9'6"	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', <input checked="" type="checkbox"/> Other	PUMP FROM #3	
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		1300+
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/ <input checked="" type="checkbox"/> no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		1800
19. Distance to nearest water course		550

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9707 FARM NAME: **COLDSTREAM FARMS DAIRY #1**

**Notes, drawings etc**

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**A. Site inventory**

LANDOWNER: South Nooksack Farms LLC

OPERATOR: **Jeff Rainey / Galen Smith**

AGID: **2175** FARM NAME: **Coldstream Farms Dairy #1**

LAGOON ID: **9707-5** Lat: **-122.182535** Long: **48.698001**

Phones: 360-595-2410 Cell: 5812 MALENG RD.

FARM ADDRESS: 2304 Valley Highway, Deming, WA 98244

REVIEW INVENTORY DATE: 12-3-2012

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3.5 FT.

Completed by: Michael Isensee Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

50-50  
DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 12-3-2012

Weather: \_\_\_\_\_ OVERCAST \_\_\_\_\_

Temperature: \_\_\_\_\_ 40 \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 9707

FARM NAME: Coldstream Farms #1

LAGOON ID: 9707-5

Lat:-122.182535

Long: 48.698001

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?	X	/	
2. Pond was constructed <u>with</u> a liner?	yes		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

3. EMBANKMENT DOES NOT APPEAR WELL MAINTAINED COMPARED TO OTHER FACILITIES. HAS ONLY BEEN IN COLDSTREAM OWNERSHIP 3 OR 4 YRS

1d APPEARS SOMEWHAT GROGGY - SW CORNER

AGID: 9707

FARM NAME: Coldstream Farms #1

LAGOON ID: 9707-5

Lat: -122.182535

Long: 48.698001

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Are manure pump and transfer pipes functioning?		<input checked="" type="checkbox"/>	
3. Are recycling pumps and transfer pipes functioning?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Diversions/waterways maintained?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	145 NS	
4. Footprint - inside top - WIDTH	150	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	6	
8. Embankment - Maximum Fill Height	5	
9. Maximum Excavation Depth	3	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	OK	
15. Distance to nearest well/water depth in well in feet		310
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		- EPHEMERAL to NORTH
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		390
19. Distance to nearest water course		105

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID:

FARM NAME:

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: SAMC

OPERATOR: JEFF RAINEY

AGID: **2175** FARM NAME: COLDSTREAM FARMS DAIRY #2

LAGOON ID: 2175-1 Lat: 48.787450 Long: -122.205510  
Phones: (360) 595-2410 Cell:

FARM ADDRESS: 5225 POTTER ROAD DEMING WA 98244

REVIEW INVENTORY DATE: 12-3-12

MANURE/ EFFLUENT LEVEL: 55 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 1/2 FT.

Completed by: MICHAEL T Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

*DUP.* (with arrow pointing to the first checkbox)

WSP is FULL (Typically late winter or early spring)

DATE: 12-3-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: overcast

Temperature: 41° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?	X - <i>CSM</i>		
a. Erosion of liner material?		/	X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?		X	
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

*3' @ WINTER 2009 SEEPED THROUGH TOP OF EMBANKMENT WHEN FILLED TO NEAR CAPACITY (NO FREEBOARD).*

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?			<input checked="" type="checkbox"/>
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>		
7. Diversions/waterways maintained?			<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>		
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>		
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>		
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2,600,000 NET	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	220 NS	
4. Footprint - inside top - WIDTH	210 EW	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	7	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		380 /? - UPGRADIENT
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no). If yes please describe in notes.		
18. Distance to nearest home/dwelling		320
19. Distance to nearest water course		480

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 2175

FARM NAME: COLDSTREAM FARMS DAIRY #2

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

*same*  
↓

OPERATOR: MARK VAN MERSBERGEN

AGID: **4606** FARM NAME: MARKWELL HOLSTEINS DAIRY

LAGOON ID: 4606-1

Lat: 48.979450

Long: -122.407470

*98285*

*8170*

Phones: (360) 354-3045

Cell: (360) 354-7929

FARM ADDRESS: 1492 PANGBORN ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 11/14/12

MANURE/ EFFLUENT LEVEL: ~~50~~ 45 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4.5 FT.

Completed by: MICHAEL ISENBERG Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 11/14/12

Weather: SHOWERS

Temperature: 48°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	no		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?			
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>		
7. Diversions/waterways maintained?			<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>		
9. Waste storage pond access fenced and properly marked?	<input checked="" type="checkbox"/>		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>		
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>		
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2,596,585	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	235 230	
4. Footprint - inside top - WIDTH	190 180	
5. Embankment - Inside SS	3	> 2H:1V
6. Embankment - Outside SS	5	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	5.5	
9. Maximum Excavation Depth	5	
10. Total POND Depth	10.5'	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input type="checkbox"/> Homes, <input type="checkbox"/> Roads, <input type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) If yes please describe in notes.		
18. Distance to nearest home/dwelling		320' OFF-SITE
19. Distance to nearest water course		350'

4.86 AC/FT ABOVE



COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4606

FARM NAME: **MARKWELL HOLSTEINS DAIRY**

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: \_\_\_\_\_



OPERATOR: JOHN AND CINDY VAN BERKUM

AGID: **9291** FARM NAME: RIDGELINE DAIRY

LAGOON ID: 9291-1 <sup>HOME</sup> <sub>WEST</sub> Lat: 48.884820 Long: -122.308390 <sup>500</sup>

Phones: (360) 966-3445 Cell:

FARM ADDRESS: 3300 HOPEWELL ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 11-16-2012

MANURE/ EFFLUENT LEVEL: 65 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

*out*

WSP is FULL (Typically late winter or early spring)

DATE: 11-16-2012

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: OVERCAST

Temperature: 48°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked <b>“YES”</b> ; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	no		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?		/	
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>		
7. Diversions/waterways maintained?	<input checked="" type="checkbox"/>		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>		
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>		
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>		
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>		
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

7. HAS A DIVERSION BTW LAGOON + SUMMIT R. SLAUGH.  
 CONSISTS OF SMALL BERM WHICH APPEARS WOULD DIRECT  
 SEEPAGE OR OVERFLOW TO EAST

LAGOON ID: 9291-1 Lat: 48.884820 Long: -122.308390

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

PREVIOUS TO 1988

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,812,638 DESIGN - MAY BE SMALLER	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180 NS	
4. Footprint - inside top - WIDTH	125 EW	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	5	
9. Maximum Excavation Depth	6	
10. Total POND Depth	11	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD - SE - CONCRETE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		260' - OWNER
19. Distance to nearest water course		40'

DESIGN WAS

180  
180



COMMENTS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

HOWEVER CURRENT DIMENSIONS DIFFERENT THAN PLAN DIMENSIONS

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

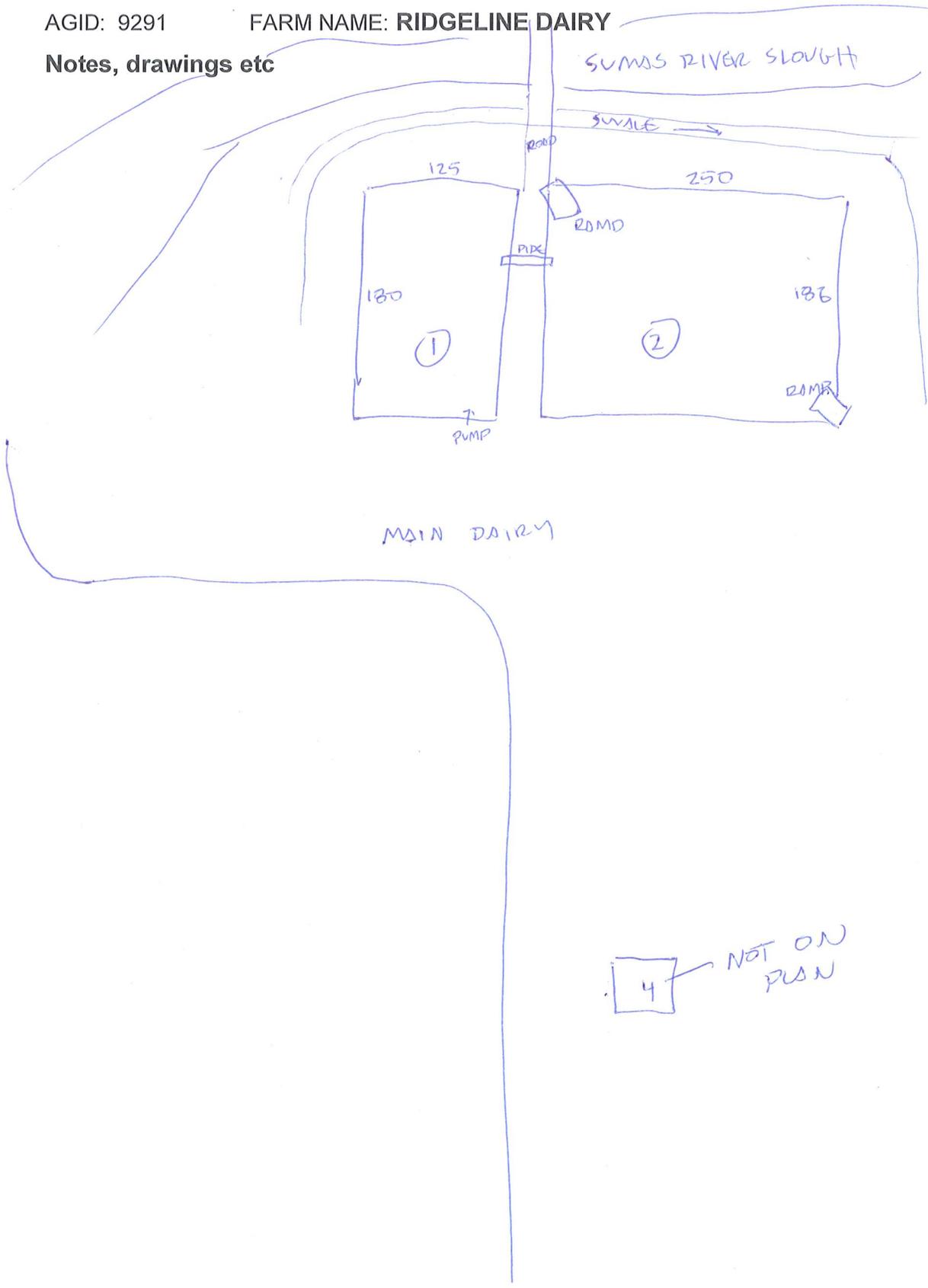
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9291

FARM NAME: RIDGELINE DAIRY

Notes, drawings etc



3

HEIFERS

4 NOT ON PLAN



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

*some*  
↓

OPERATOR: JOHN AND CINDY VAN BERKUM

AGID: **9291** FARM NAME: RIDGELINE DAIRY

LAGOON ID: 9291-2 Lat: 48.884940<sup>5143</sup> Long: -122.308300<sup>193</sup>

Phones: (360) 966-3445 Cell:

FARM ADDRESS: 3300 HOPEWELL ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 11/16/2012

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 9 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 11/16

Weather: cloudy

Temperature: 48°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	yes		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?			
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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AGID: 9291

FARM NAME: RIDGELINE DAIRY

LAGOON ID: 9291-2

Lat: 48.884940

Long: -122.308300

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?		/	
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?	/		
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?	/		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	/		
9. Waste storage pond access fenced and properly marked?		/	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?	/		
14. Inlet pipes submerged?		/	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

CONNECTS TO FIRST LAGOON w/ 12" PIPE

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 1988/89

DATE ORIGINAL WASTE STORAGE POND COMPLETED: NRCS

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2,783,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	186 NS	
4. Footprint - inside top - WIDTH	250 EW	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	5	
9. Maximum Excavation Depth	6	
10. Total POND Depth	11	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input checked="" type="checkbox"/> Flume, <input checked="" type="checkbox"/> Scrape/slab, <input checked="" type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	5000 - 2 CONCRETE PUMP NW+SE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		360' around
19. Distance to nearest water course		44'

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9291 FARM NAME: RIDGELINE DAIRY

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: \_\_\_\_\_

*some*  
↓

OPERATOR: JOHN AND CINDY VAN BERKUM

AGID: **9291** FARM NAME: RIDGELINE DAIRY

LAGOON ID: 9291-3 Lat: 48.884940 Long: -122.308300

*374763*

*311527*

Phones: (360) 966-3445 Cell: \_\_\_\_\_

FARM ADDRESS: 3300 HOPEWELL ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 11/16/2012

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 11-16-12

Weather: clear

Temperature: 43

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?	X - MINOR		
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	CLAY	.	
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?			
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?		<input checked="" type="checkbox"/>	
7. Diversions/waterways maintained?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?		<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

6 - SOME ROOFWATER AND SUB GOES TO STORAGE VIA A SUMP  
 BECAUSE SOLIDS ARE STORED IN OLD SILAGE BUNKER. CAN  
 BE SUMPED TO GRASS WHEN CLEAN

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,401,096	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	160 NS	
4. Footprint - inside top - WIDTH	150 EW	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	5	
9. Maximum Excavation Depth	5	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, other		
14. Pump/agitation site condition	GOOD - SE - CONCRETE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		300' ON SITE
19. Distance to nearest water course		680



COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES       NO

**C. Does it appear that the WSP been structurally modified?**

YES       NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9291 FARM NAME: RIDGELINE DAIRY

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: ?

OPERATOR: JOHN + CIMON VAN BEEKUM

AGID: 9291 FARM NAME: RIDGELINE DAIRY

LAGOON ID: 9291-4 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: 966-3445 Cell: 48,878197 -122.307629

FARM ADDRESS 3300 HOPEWELL RD, EVERSON 98247

REVIEW INVENTORY DATE: 11-16-12

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: MICHAEL ± Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 11-16-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 11-16-12

Weather: overcast

Temperature: 48

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: FARM NAME:

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	W/M	/	
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?			
a. Due to burrowing animals?	/		
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

SOME MAE EVIDENCE

RECENTLY MAINT W/ SOME LARGER VEGETATION REMOVED

AGID:

FARM NAME:

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>		
7. Diversions/waterways maintained?			<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>		
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>		
11. Solids managed to <u>prevent</u> plants growing on crust?		<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>		
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

10 + 11. HAS HAD EXTENSIVE GRASS MATS BUT OPERATOR  
 NOW HAS GOOD LEASE AND IS WORKING TO  
 TREAT AND REMOVE GRASS.

AGID: FARM NAME:

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_ ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	220 NS	
4. Footprint - inside top - WIDTH	210 CW	
5. Embankment - Inside SS	2.5	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	6	
9. Maximum Excavation Depth	3	
10. Total POND Depth	9	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition - weedy SW corner		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, <input checked="" type="checkbox"/> Homes, <input checked="" type="checkbox"/> Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		340
19. Distance to nearest water course		225

COMMENTS:

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AGID: FARM NAME:

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: FARM NAME:

**Notes, drawings etc**

**A. Site inventory**

R

LANDOWNER: \_\_\_\_\_

OPERATOR: RONALD L VANDER VEEN

9-11

AGID: **9823** FARM NAME: RONALD VANDER VEEN DAIRY

LAGOON ID: 9823-1 Lat: 48.953320 Long: -122.597900

100

8576

Phones: (360) 366-3694 Cell: \_\_\_\_\_

FARM ADDRESS: 8591 SUNRISE ROAD CUSTER WA 98240

REVIEW INVENTORY DATE: 9/14/2012

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 9 FT.

Completed by: Dick M. Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

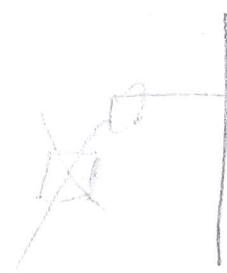
WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/12/2012

Weather: ~~44~~ sunny

Temperature: 54

Soil surface: moist, dry, wet, saturated, standing water, frozen, snow covered



Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9823

FARM NAME: RONALD VANDER VEEN DAIRY

LAGOON ID: 9823-1

Lat: 48.953330

Long: -122.597900

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	C		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			X
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	1.75	> 2H:1V
6. Embankment - Outside SS	2:1	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	12	
9. Maximum Excavation Depth	2	
10. Total POND Depth	10 12	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input checked="" type="checkbox"/> Homes, <input checked="" type="checkbox"/> Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		460
19. Distance to nearest water course		

COMMENTS:

5: EHW very steep < 1:1 !

AGID: 9823 FARM NAME: RONALD VANDER VEEN DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9823

FARM NAME: RONALD VANDER VEEN DAIRY

**Notes, drawings etc**

TWO INSPECS: ✓ ✓

DATE 5-27-12 STAFF **CM** FAC. SITE KEY **4864888** STATUS **Active**

FARM NAME **VALLEY VIEW DAIRY** AG ID **9396**

FARM ADDRESS **16619 Otter Pond Road near Mount Vernon**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **2** THIS LAGOON ID **9396-1**

LONGITUDE **-122.2323** LATITUDE **48.40007**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS \_\_\_\_\_ FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.   
 *1 PA / 1 PA*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			✓
b. In vicinity of waste inlet structure?			✓
c. Due to erosion from rainfall?			✓
d. Near agitation equipment access points?			✓
2. Pond was constructed <u>without</u> a liner?		✓	✓
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	✓
b. Damaged material (holes, tears, seams)?		✓	✓
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	✓
4. Signs of embankment damage?			
a. Due to burrowing animals?			✓
b. Presence of trees or woody vegetation?			✓
c. Presence of large weeds?			✓
d. Evidence of overtopping of embankment?			✓
e. Evidence of soil erosion or gully on embankment?			✓
f. Evidence of cracks in embankment soils?			✓
g. Damp, soft, or slumping areas on berm?			✓
h. Seepage near bottom of berm slope?			✓
i. Seepage around pipes thru berm?			✓

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in the COMMENT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓✓	
a. Is liquid level marker visible?		✓✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓✓		
3. Are recycling pumps and transfer pipes functioning?	✓✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓✓	
6. All roof water or clean runoff is diverted from storage?	✓✓		
7. Diversions/waterways maintained?	✓✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓✓		
9. Waste storage pond access fenced and properly marked?		✓✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓✓		
12. Anaerobic lagoon is purple/pink?		✓✓	
13. Actively bubbling?	✓✓		
14. Inlet pipes submerged?		✓✓	
15. Downwind odor from WSP is: <input checked="" type="checkbox"/> None <input checked="" type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

Earthen Structural Review comments	Operations and Maintenance comments
#1	#2
12 FT	16
0	0
12	16
3:2	3:2
PVC TOP	Soft nose over top



**A. Site inventory**

LANDOWNER: SAME

OPERATOR: ALLAN VAN HOFWEGEN

AGID: **2091** FARM NAME: VAN HOFWEGEN DAIRY

LAGOON ID: 2091-1 Lat: 48.954330<sup>927</sup> Long: -122.331150<sup>29408</sup>

Phones: (360) 966-4740 Cell: 360-303-5927

FARM ADDRESS: 8618 VAN BUREN ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 11-15-2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6+ FT.

Completed by: Michael ISENSEE Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 11/15/2012

Weather: FOGGY

Temperature: 45

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

*60% FULL 8/22 RI*

*188 AC  
55 CORN  
133 GRASS*

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?			
b. In vicinity of waste inlet structure?	X		
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?	X		
2. Pond was constructed with a liner?	yes		
a. Erosion of liner material?	X		
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

1 b - SUMP HOSE ~~WAS~~ HAS GROOVED ~~EMBANKMENT~~ HOLE INTO SIDE OF INTERIOR EMBANKMENT - APPROX 2' DIAMETER + 3-4 FT DEEP - S BANK NEAR WEST END

1 d AGITATION HOSE ALSO GROOVED SMALLER HOLE - S. BANK NEAR EAST END

3 c EXTENSIVE BLACKBERRIES ESP S. BANK

AGID: 2091

FARM NAME: VAN HOFWEGEN DAIRY

LAGOON ID: 2091-1

Lat: 48.954330

Long: -122.331150

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?		/	
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?	/		
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		/	
9. Waste storage pond access fenced and properly marked?		/	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	/		
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?	/		
14. Inlet pipes submerged?	/		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

MAIN

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	3,999,688 67065 3,208,000 NET	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	260 EW	
4. Footprint - inside top - WIDTH	212 NS	
5. Embankment - Inside SS	1.5 #	> 2H:1V
6. Embankment - Outside SS	3	> 2H:1V
7. Embankment - Top Width	<del>1.5</del> 3	
8. Embankment - Maximum Fill Height	3	
9. Maximum Excavation Depth	4	
10. Total POND Depth	12	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	FIVE - SW + NE CORNERS - CONCRETE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input type="checkbox"/> Homes, <input type="checkbox"/> Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		500+ OWNER
19. Distance to nearest water course		100 TO INLET TO CREEK

COMMENTS:

HAS PIPE THROUGH LAGOON BANK NEAR SE CORNER BUT IS NOT USED

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 2091 FARM NAME: **VAN HOFWEGEN DAIRY**

**Notes, drawings etc**

Skaoit

DATE 4-30-12 STAFF **CM** FAC. SITE KEY **7937448** STATUS **Active**

FARM NAME **BAUMGARDNER DAIRY** AG ID **5**

FARM ADDRESS **21760 Francis Road near Mount Vernon**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **005-1**

**400 FT RIVER NE**

LONGITUDE **-122.27345** LATITUDE **48.46747**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS 5 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

50%

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		<input checked="" type="checkbox"/>	
b. In vicinity of waste inlet structure?		<input checked="" type="checkbox"/>	
c. Due to erosion from rainfall?		<input checked="" type="checkbox"/>	
d. Near agitation equipment access points?		<input checked="" type="checkbox"/>	
2. Pond was constructed <u>without</u> a liner?		<input checked="" type="checkbox"/>	
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?			<input checked="" type="checkbox"/>
b. Damaged material (holes, tears, seams)?			<input checked="" type="checkbox"/>
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		<input checked="" type="checkbox"/>	
4. Signs of embankment damage?			
a. Due to burrowing animals?		<input checked="" type="checkbox"/>	
b. Presence of trees or woody vegetation?		<input checked="" type="checkbox"/>	
c. Presence of large weeds?		<input checked="" type="checkbox"/>	
d. Evidence of overtopping of embankment?		<input checked="" type="checkbox"/>	
e. Evidence of soil erosion or gully on embankment?		<input checked="" type="checkbox"/>	
f. Evidence of cracks in embankment soils?		<input checked="" type="checkbox"/>	
g. Damp, soft, or slumping areas on berm?		<input checked="" type="checkbox"/>	
h. Seepage near bottom of berm slope?		<input checked="" type="checkbox"/>	
i. Seepage around pipes thru berm?		<input checked="" type="checkbox"/>	



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 4-30-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: NRCS comm-mul ed's

*Baumgardner*

*NDIS  
2283 m*

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	50% 5 Ft free	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180	
3. Footprint - inside top - WIDTH	180	
4. Embankment - Inside SS	Steep: 3:2	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	10 Ft	
7. Embankment - Maximum Fill Height	8	
8. Maximum Excavation Depth	4	
9. Total POND Depth	12	
10. Liner type or soil amendment condition	- (compacted si.)	
11. Inlet type location and condition	PVC, E above ground	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

*Built under 100 yr flood mark,  
previous owner raised bank above  
100 yr floods*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO



**A. Site inventory**

B



LANDOWNER: Asplund Francis

OPERATOR: DAVID BAUMGARDNER 11:30-1:30p

AGID: **5** FARM NAME: BAUMGARDNER DAIRY

LAGOON ID: 005-1 Lat: Long:

Phones: (360) 424-4514 Cell:

FARM ADDRESS: 21760 FRANCIS ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/23/2012

MANURE/ EFFLUENT LEVEL: 45 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: Dirk H Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/23/2012

Weather: cloudy

Temperature: 47

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 5

FARM NAME: BAUMGARDNER DAIRY

LAGOON ID: 005-1

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
<b>b.</b> Presence of trees or woody vegetation?	X		
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

3 B : BB's S

AGID: 5

FARM NAME: BAUMGARDNER DAIRY

LAGOON ID: 005-1

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 005-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	10	
8. Embankment – Maximum Fill Height	8	
9. Maximum Excavation Depth	0	
10. Total POND Depth	8	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="radio"/> Pipe, <input type="radio"/> Flume, <input type="radio"/> Scrape/slab, <input type="radio"/> Overflow 'T', <input type="radio"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="radio"/> none, <input type="radio"/> earthen, <input type="radio"/> gravel, <input type="radio"/> concrete, <input type="radio"/> other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5 FARM NAME: BAUMGARDNER DAIRY

**Notes, drawings etc**

DATE 4/30/12 STAFF DM FAC. SITE KEY 5287882 STATUS Active

FARM NAME BAYSIDE DAIRY LLC AG ID 2158

FARM ADDRESS 18550 Hickox Road near Mount Vernon

FARM CONTACT Steve Boon

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP 1 THIS LAGOON ID 2158-1

LONGITUDE -122.302758 <sup>4502</sup> LATITUDE 48.32602 <sup>8250</sup>

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS 6' FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other <u>NA</u>			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>60 steps</i>	<i>150'</i>	
3. Footprint - inside top - WIDTH <i>69 steps</i>	<i>167'</i>	
4. Embankment - Inside SS	<i>1/2</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/4</i>	> 2H:1V
6. Embankment - Top Width	<i>10'</i>	
7. Embankment - Maximum Fill Height	<i>12'</i>	
8. Maximum Excavation Depth	<i>0</i>	
9. Total POND Depth	<i>12'</i>	
10. Liner type or soil amendment condition	<i>clay-sood</i>	
11. Inlet type location and condition	<i>pipe - ok</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO



**A. Site inventory**

✓  
Barnett  
Capt

LANDOWNER: \_\_\_\_\_

OPERATOR: STEVE BOON 8-9

AGID: 2158 FARM NAME: BAYSIDE DAIRY LLC



LAGOON ID: 2158-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Phones: (360) 661-1304 Cell: \_\_\_\_\_

FARM ADDRESS: 18550 HICKOX ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/23/2012

MANURE/ EFFLUENT LEVEL: <50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4.5 FT.

Completed by: DIRK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/23/2012

Weather: Rain

Temperature: 43

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 2158

FARM NAME: BAYSIDE DAIRY LLC

LAGOON ID: 2158-1

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

3 b NE corner

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?		X	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			(
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?	X X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

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LAGOON ID: 2158-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

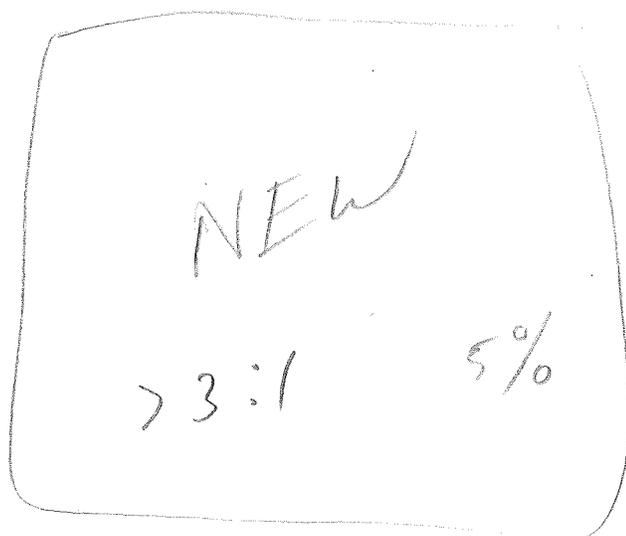
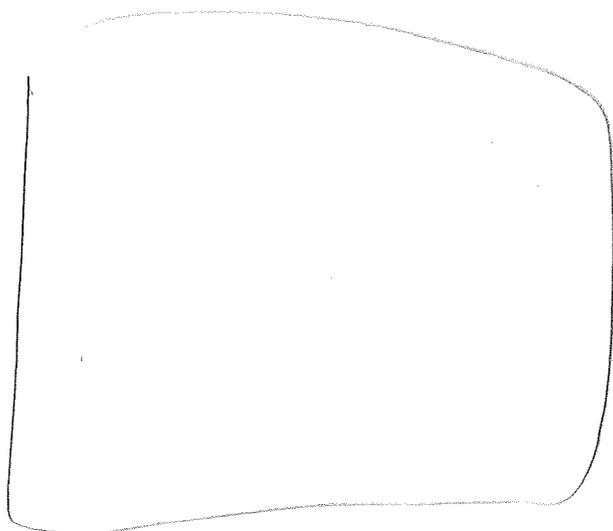
\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

↑ N



74:1

10'

- will have fence
- need get seeded

Tues @4:00 ✓ call 1/2 hr before

✓ *Ellet V*

LZ N48.37082  
W122.40225

Skagit

**A. Site inventory**

LANDOWNER: **GERRIT KUIPERS**

AGID: **3260** FARM NAME: **BEAVER MARSH FARMS LLC**

LAGOON ID **3260-1** Lat: **48.3696** Long: **-122.40193**

Telephone Cell Work **360-416-6884 / 360-416-8226** ~~416 8226~~ ~~360-416-2321~~

FARM ADDRESS: 19020 BEAVER MARSH ROAD, MOUNT VERNON

REVIEW INVENTORY DATE: 5/1/12

MANURE/ EFFLUENT LEVEL: 75 (U) % (LR) 75%

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT. LZ 4'

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 5/1/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 3260 FARM NAME: BEAVER MARSH FARMS LLC

LAGOON ID 3260-1 Lat: 48.3696 Long: -122.40193

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW						
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.						
SITE INVENTORY QUESTION	YES		NO		NA	
	L1	L2	L1	L2	L1	L2
1. Embankment Interior and liner erosion observed?						
a. Due to wave action?			✓	✓		
b. In vicinity of waste inlet structure?			✓	✓		
c. Due to erosion from rainfall?			✓	✓		
d. Near agitation equipment access points?			✓	✓		
2. Pond was constructed <u>without</u> a liner?			✓	✓		
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA						
a. Erosion of liner material?			✓	✓		
b. Damaged material (holes, tears, seams)?			✓	✓		
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			✓	✓		
4. Signs of embankment damage?						
a. Due to burrowing animals?			✓	✓		
b. Presence of trees or woody vegetation?			✓	✓		
c. Presence of large weeds?			✓	✓		
d. Evidence of overtopping of embankment?			✓	✓		
e. Evidence of soil erosion or gully on embankment?			✓	✓		
f. Evidence of cracks in embankment soils?			✓	✓		
g. Damp, soft, or slumping areas on berm?			✓	✓		
h. Seepage near bottom of berm slope?			✓	✓		
i. Seepage around pipes thru berm?			✓	✓		

COMMENTS:

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AGID: 3260 FARM NAME: BEAVER MARSH FARMS LLC

LAGOON ID 3260-1 Lat: 48.3696 Long: -122.40193

OPERATION AND MAINTENANCE						
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section						
SITE INVENTORY QUESTION	YES		NO		NA	
	L1	L2	L1	L2	L1	L2
1. Is there a permanent liquid level marker available to measure depth of pond?						
a. Is liquid level marker visible?			✓	✓		
b. Is storage capacity available for freeboard when pond is full?	✓	✓				
2. Are manure pump and transfer pipes functioning?	✓	✓				
3. Are recycling pumps and transfer pipes functioning?	✓	✓				
4. Is pond overflow pipe/structure clear and unobstructed?					✓	✓
<b>CLEAN WATER DIVERSION</b>						
5. Perimeter drains plugged or blocked?					✓	✓
6. All roof water or clean runoff is diverted from storage?	✓	✓				
7. Diversions/waterways maintained?					✓	✓
<b>VISUAL APPEARANCE AND SAFETY</b>						
8. Site neat and recently mowed?			✓	✓		
9. Waste storage pond access fenced and properly marked?			✓	✓		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>						
10. Crust of solids on lagoon?			✓	✓		
11. Solids managed to <u>prevent</u> plants growing on crust?					✓	✓
12. Anaerobic lagoon is purple/pink?	✓	✓				
13. Actively bubbling?	✓	✓				
14. Inlet pipes submerged?	✓	✓				
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable					

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 3260 FARM NAME: BEAVER MARSH FARMS LLC

LAGOON ID 3260-1 Lat: 48.3696 Long: -122.40193

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS		NRCS design criteria at time of installation or last modification <sup>2</sup>
	L1	L2	
1. Storage capacity at overflow, or crest elevation if no spillway.	L1	L2	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	275'	148'	
3. Footprint - inside top - WIDTH	187'	145'	
4. Embankment - Inside SS	1/3	1/2	> 2H:1V
5. Embankment - Outside SS	1/3	1/3	> 2H:1V
6. Embankment - Top Width	12'	10'	
7. Embankment - Maximum Fill Height	10'	10'	
8. Maximum Excavation Depth	2'	2'	
9. Total POND Depth	12'	12'	
10. Liner type or soil amendment condition	clay-good	clay-good	
11. Inlet type location and condition	good	good	
12. Outlet ramp condition	"	"	
13. Pump/agitation site condition	"	"	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GERRIT KUIPERS

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

DATE 11-1-11 STAFF CM FAC. SITE KEY 0 STATUS Active *skabit*  
 FARM NAME BEAVER MARSH FARMS LLC AG ID 3260 *Pam Pond overflow is not a spill*  
 FARM ADDRESS 19020 Beaver Marsh Road near Mount Vernon *Not submerged*  
 FARM CONTACT \_\_\_\_\_  
 FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP 2 THIS LAGOON ID 3260-1 *New*  
 LONGITUDE -122.40192999999999 LATITUDE 48.36960 *150x300?*  
 WSP IS TODAY  NEARLY FULL  NEARLY EMPTY *2005-04*  PICTURES TAKEN  
 TODAY LIQUID LEVEL IS 5 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, *50%* if no embankment, as in a pit pond, show NA.

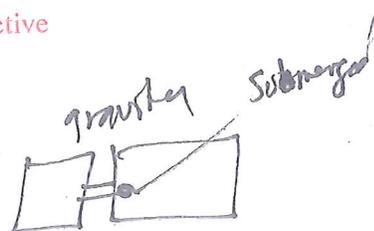
EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> <u>Flexible Membrane</u> <u>Bentonite Amendment</u> <u>Other</u> <u>NA</u>			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	



DATE 11-1-11 STAFF CM FAC. SITE KEY 0 STATUS Active

FARM NAME BEAVER MARSH FARMS LLC AG ID 3260

FARM ADDRESS 19020 Beaver Marsh Road near Mount Vernon



FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP 2 THIS LAGOON ID 3260-2

LONGITUDE -122.40192999999999

LATITUDE 48.36960

85

150X150

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY 50%

PICTURES TAKEN

TODAY LIQUID LEVEL IS 5 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed without a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

### OPERATION AND MAINTENANCE

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in the COMMENT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?		✓	
2. Are manure pump and transfer pipes functioning?		✓	
3. Are recycling pumps and transfer pipes functioning?		✓	
4. Is pond overflow pipe/structure clear and unobstructed?		✓	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	✓		
11. Solids managed to prevent plants growing on crust?		✓	
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?		✓	
14. Inlet pipes submerged?			
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input checked="" type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		
<b>Earthen Structural Review comments</b>		<b>Operations and Maintenance comments</b>	
ground level		Heavy solids on I#2	
12 ft top to ground		lagoon	
35' thick outside			
30' inside			

Laurel Dairy ✓

10 AM MONDAY

GUIDE ✓  
1st Dairy Full - In DBox  
HANE  
BEARD

**A. Site inventory**

LANDOWNER: LEROY PLAGERMAN

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-1 Lat: 48.88424<sup>335</sup> Long: -122.48401<sup>08</sup>

Telephone Cell 0 Work 360815-2593

FARM ADDRESS: 239 BEARD ROAD, LYNDEN

109 BEARD

AT DAIRY

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 4-30-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

HOME PLACE

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-1 Lat: 48.88424 Long: -122.48401

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		↓	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?		↓	
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?		↓	
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

Very tall grass

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AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-1 Lat: 48.88424 Long: -122.48401

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

RAIN  
CONTAINS H<sub>2</sub>O AND GRASSY-SOLIDS. NOTHING IS CURRENTLY  
PUMPED INTO POND

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-1 Lat: 48.88424 Long: -122.48401

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: ? DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: ?

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>151</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	113 EW	
3. Footprint - inside top - WIDTH	100 NS	
4. Embankment - Inside SS	?	> 2H:1V
5. Embankment - Outside SS	3:1	> 2H:1V
6. Embankment - Top Width	15'	
7. Embankment - Maximum Fill Height	4'	
8. Maximum Excavation Depth	?	
9. Total POND Depth	?	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	FLEX PIPE	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	NA	

COMMENTS:

EMBANKMENT VERY OVERGROWN AND WEEDS GROWING IN POND.  
POND IS CURRENTLY ONLY COLLECTING RAIN WATER + NO NUTRIENTS

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES    X NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LEROY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

2nd Nearly Full  
Not in DBase

**A. Site inventory**

LANDOWNER: PLUGGERMAN

OPERATOR: LEROY & RHONDA PLAGERMAN

AGID: **5981** FARM NAME: BEL-LYN FARMS DAIRY

HOME - (A <sup>109</sup> ~~109~~ BEARD  
MAIN DAIRY

LAGOON ID: 5981-1 Lat: 48.884240 Long: -122.484010

Phones: (360) 398-7662 Cell: 48.883352 -122.484118

FARM ADDRESS: 329 BEARD ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-23-12

MANURE/ EFFLUENT LEVEL: 65 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 10/23/12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

DOES NOT  
COLLECT  
ANY MANURE  
NONE WAS  
RUMPED THIS  
YEAR

Weather: SHOWERS

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner? <i>CLAY</i>	/		
a. Erosion of liner material?			<i>UNK</i>
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?		/	
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?	/		
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

*EXTENSIVE VEGETATION PREVENTED GOOD ASSESSMENT*

AGID: 5981

FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID: 5981-1

Lat: 48.884240

Long: -122.484010

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are recycling pumps and transfer pipes functioning?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Diversions/waterways maintained?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?		<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

COLLECTS NO MANURE, ALTHOUGH IS CONNECTED TO SYSTEM AND LIQUIDS CAN BE DIRECTED <sup>IN</sup> TO THIS LAGOON OR FROM THIS LAGOON TO "IN THE WOODS" 5981-2 LAGOON

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,071,000 GROSS	Less than 10 acre-feet for all but dam safety permitted ponds ← 605,000 NET
2. Footprint - inside top - LENGTH	96 NS	
4. Footprint - inside top - WIDTH	113 EW	
5. Embankment - Inside SS	? STEEP	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	6 EST	
9. Maximum Excavation Depth	<del>5</del> 4.5 EST	
10. Total POND Depth	10.5	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	UNSURE - WEEDY	
15. Distance to nearest well/water depth in well in feet		UNK
16. Failure impacts: Farm Building, Homes, <input checked="" type="checkbox"/> Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		180' UPHILL
19. Distance to nearest water course		170'

COMMENTS:

NO LONGER IN ACTIVE USE FOR MANURE STORAGE. ONLY COLLECTS RAINWATER. ~~WAS DESIGNED~~ WHEN DESIGNED, REQUIRED 3 FT FROM TOP TO ALLOW 1' FREEBOARD PLUS 24HR/25YR STORM EVENT FROM 84000 SF OF COLLECTION AREA (234,000 gallons)

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

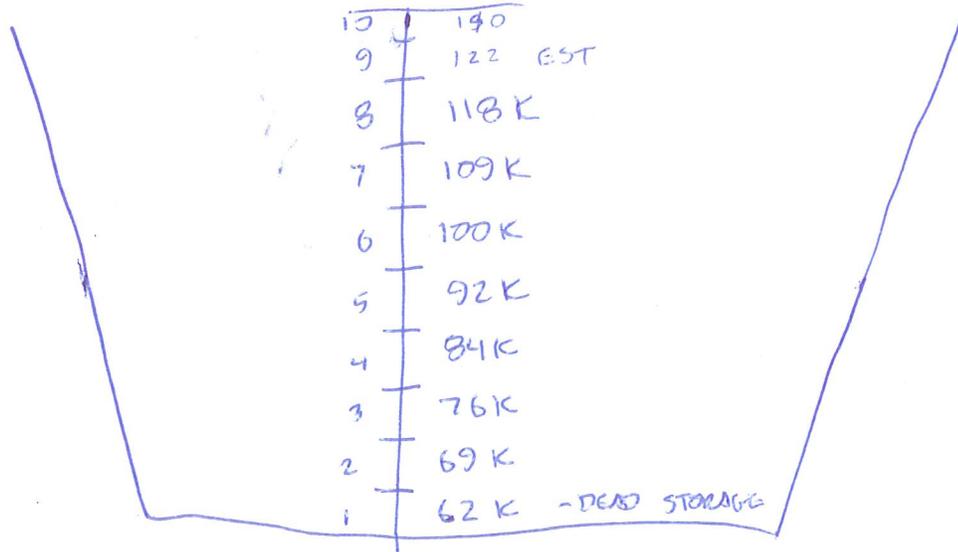
\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

GROSS 1,028,000  
FREEBOARD 127,000  
STORM 234,000  
DEAD 62,000  
NET 605,000



2nd Nearly Full in DBase "IN THE WOODS"

A. Site inventory

LANDOWNER: PLAGERMAN

OPERATOR: LEROY & RHONDA PLAGERMAN  
AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

MAIN STORAGE  
a 239 BEARD

LAGOON ID: 5981-2 Lat: 48.879530 Long: -122.477040

Phones: (360) 398-7662 Cell:

FARM ADDRESS: 329 BEARD ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-23-12

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:

WSP is FULL (Typically late winter or early spring)

DATE: 10-23-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

IS ACTIVELY PUMPING + SPREADING ON GRASS FIELDS # 13, 8, 4  
3  
SHOULD BE ESSENTIALLY EMPTY BY END OF PUMPING PERIOD 10/31

Weather: SHOWERS

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	yes		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?			?
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?			?
f. Evidence of cracks in embankment soils?			?
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?			?
i. Seepage around pipes thru berm?		/	

COMMENTS:

EXTENSIVE BLACK BERRIES SURROUND MOST OF LAGOON

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	/		
a. Is liquid level marker visible?	/		
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?	/		
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		/	
9. Waste storage pond access fenced and properly marked?		/	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?	/		
14. Inlet pipes submerged?	/		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS DATE: 5/94

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	4,382 <del>4,119</del> K	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	267 NS	
4. Footprint - inside top - WIDTH	198 CW	
5. Embankment - Inside SS	2.6	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	10'	
9. Maximum Excavation Depth	4'	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other	SW CORNER	
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		429 IRRIGATION
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		250' OWNERS
19. Distance to nearest water course		1850'

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5981 FARM NAME: **BEL-LYN FARMS DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: LEROY PLAGERMAN

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-2 Lat: 48.8795<sup>62</sup> Long: -122.4770<sup>8</sup>

Telephone Cell 0 Work 360815-2593

FARM ADDRESS: 239 BEARD ROAD, LYNDEN

239 BEARD - MAIN HOME  
WOODS BETTING HOUSE

REVIEW INVENTORY DATE: 9/14/12

MANURE/ EFFLUENT LEVEL: 80% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 1/2 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 4-30-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

→ 11:00  
1st nearly full  
Nit 9-4 in 20  
Used 2nd nearly full

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-2 Lat: 48.87953 Long: -122.47704

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>without</u> a liner?		X	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

EXTENSIVE LARGE BLACK BERRIES

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-2 Lat: 48.87953 Long: -122.47704

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	X		
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="radio"/> None <input type="radio"/> Faint <input type="radio"/> Distinct <input type="radio"/> Strong <input type="radio"/> Unbearable		

COMMENTS:

AGID: **5981** FARM NAME: **BEL-LYN FARMS DAIRY**

LAGOON ID **5981-2** Lat: 48.87953 Long: -122.47704

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_ 1990-95?

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>148</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	3,500,000 (+ FREE?)	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	255 NS	
3. Footprint - inside top - WIDTH	180 EW	
4. Embankment - Inside SS	2:1	> 2H:1V
5. Embankment - Outside SS	> 2:1	> 2H:1V
6. Embankment - Top Width	12	
7. Embankment - Maximum Fill Height	9	
8. Maximum Excavation Depth	6	
9. Total POND Depth	15	
10. Liner type or soil amendment condition	LOCAL CLAY ?	
11. Inlet type location and condition	FLEX PIPE - GOOD	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	GOOD	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LEROY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

A. Site inventory

LANDOWNER: LEROY PLAGERMAN

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-3 Lat: 48.88<sup>26</sup>~~332~~ Long: -122.47<sup>34</sup>~~294~~

Telephone Cell 0 Work 360815-2593

FARM ADDRESS: 239 BEARD ROAD, LYNDEN

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: MICHAEL Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:



WSP is FULL (Typically late winter or early spring)

DATE: 4-30-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

00



"PARKER"



AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-3 Lat: 48.88332 Long: -122.47294

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>without</u> a liner?		X	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-3 Lat: 48.88332 Long: -122.47294

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	X		
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	FENCED X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?			
15. Downwind odor from WSP is:	(None)	Faint	Distinct
		Strong	Unbearable

COMMENTS:

- HORSES GRAZING PASTURE AROUND POND INC. BERM WALLS

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-3 Lat: 48.88332 Long: -122.47294

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: ? DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: ? \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>149</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	? 1,000,000 ? OPERATOR GUESS	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	156 NS	
3. Footprint - inside top - WIDTH	110 EW	
4. Embankment - Inside SS	> 2:1	> 2H:1V
5. Embankment - Outside SS	> 2:1	> 2H:1V
6. Embankment - Top Width	5	
7. Embankment - Maximum Fill Height	5 1/2	
8. Maximum Excavation Depth	5 1/2	
9. Total POND Depth	11	
10. Liner type or soil amendment condition	NATIVE SOIL	
11. Inlet type location and condition	CONCRETE RAMP - GOOD	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	GOOD	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LEROY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: PLAGERMAN



OPERATOR: LEROY & RHONDA PLAGERMAN

BEARD

AGID: **5981** FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID: 5981-3 Lat: 48.883320<sup>2630</sup> Long: -122.472940<sup>3354</sup>

Phones: (360) 398-7662 Cell:

"PARKER"

FARM ADDRESS: 329 BEARD ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-23-2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6.5 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10-23-12

Weather: SHOWERS

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	W/S		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		/	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?	/		
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or <u>slumping</u> areas on berm?	X	<del>/</del>	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

SOME EROSION - SLUMPING CAUSED BY HORSES PASTURED IN FIELD SURROUNDING LAGOON

AGID: 5981

FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID: 5981-3

Lat: 48.883320

Long: -122.472940

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	X		
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full? <i>MARKER SHOWS FREEBOARD</i>	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed? <i>GROVED</i>	X		
9. Waste storage pond access fenced and properly marked? <i>FENCED</i>			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?		/	
14. Inlet pipes submerged?		/	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: Bill B. NRES DATE: ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1,075,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	161 MS	
4. Footprint - inside top - WIDTH	112 EW	
5. Embankment - Inside SS	2.5	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	6	
9. Maximum Excavation Depth	5	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	OK	
15. Distance to nearest well/water depth in well in feet		65' - IRRIGATION
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		475' UPHILL
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5981

FARM NAME: **BEL-LYN FARMS DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: LEROY PLAGERMAN

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-4 Lat: 48.88<sup>290</sup>~~332~~ Long: -122.47<sup>5775</sup>~~299~~

Telephone Cell 0 Work 360815-2593

FARM ADDRESS: 239 BEARD ROAD, LYNDEN 623 BEARD - WOODS

REVIEW INVENTORY DATE: \_\_\_\_\_ SITE

MANURE/ EFFLUENT LEVEL: 33 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 4-30-2012

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Nearly?

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-4 Lat: 48.88332 Long: -122.47299

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>without</u> a liner?		X	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?		X	
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-4 Lat: 48.88332 Long: -122.47299

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	X		
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-4 Lat: 48.88332 Long: -122.47299

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: ? DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>150</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	? 1,000,000 OPERATOR FEELS	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	70 NS	
3. Footprint - inside top - WIDTH	160 EW	
4. Embankment - Inside SS	> 2:1	> 2H:1V
5. Embankment - Outside SS	> 2:1	> 2H:1V
6. Embankment - Top Width	7'	
7. Embankment - Maximum Fill Height	5'	
8. Maximum Excavation Depth	2'	
9. Total POND Depth	7'	
10. Liner type or soil amendment condition	GOOD - NATIVE SOIL	
11. Inlet type location and condition	GOOD - BUILT IN	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	GOOD	

COMMENTS:

POND IS EXTRA STORAGE - INTERCTED W/ OTHER FACILITIES

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LEROY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: LEROY & RHONDA PLAGERMAN

AGID: **5981** FARM NAME: BEL-LYN FARMS DAIRY

✓  
"WOODS"

LAGOON ID: 5981-4 Lat: 48.883320 Long: -122.472990

Phones: (360) 398-7662 Cell: 2884 57462

FARM ADDRESS: 329 BEARD ROAD LYNDEN WA 98264

— BEARD

REVIEW INVENTORY DATE: 10-23-12

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10-23-12

Weather: Showers

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	CLSY		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?		/	
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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AGID: 5981

FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID: 5981-4

Lat: 48.883320

Long: -122.472990

OPERATION AND MAINTENANCE

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	GRADED		
9. Waste storage pond access fenced and properly marked?	FENCED		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?		/	
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?		/	
14. Inlet pipes submerged?	/		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

HAS JUST COLLECTED RAINWATER FOR SEVERAL SEASONS.  
 HOWEVER, HAS EXTENSIVE AMT OF SOLIDS (≈ 3 FT)  
 IN LAGOON

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRC DATE: ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	502,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	74 NS	
4. Footprint - inside top - WIDTH	163 EW	
5. Embankment - Inside SS	2.5	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	2-3'	
8. Embankment - Maximum Fill Height	7	
9. Maximum Excavation Depth	9	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	OK	
15. Distance to nearest well/water depth in well in feet		90' IRRIGATION
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		375'
19. Distance to nearest water course		75'

COMMENTS:

1. HOWEVER POND WAS EXPANDED AT SOME POINT AND NOW HAVE GREATER CAPACITY. HOWEVER, TOP OF S. BANK IS VERY NARROW IN UPPER 2+ FT

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO UNSURE

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer ? Date ?

(1) Date of modification construction? ?

(2) Description of structural modification: EXPANDED - DO NOT KNOW  
ANY DETAILS

(3) Describe impact of modification on structural integrity: RPPGC S. BANKS  
QUITE NARROW

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5981      FARM NAME: **BEL-LYN FARMS DAIRY**

**Notes, drawings etc**



**A. Site inventory**

LANDOWNER: LEROY PLAGERMAN

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-5 Lat: 48.85365<sup>56</sup> Long: -122.51254<sup>60</sup>

Telephone Cell 0 Work 360815-2593

FARM ADDRESS: 239 BEARD ROAD, LYNDEN LAUREL ROAD SITE

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: 25 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

*Newly?*

DATE: 4-30-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-5 Lat: 48.85365 Long: -122.51254

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?	X		
2. Pond was constructed <u>without</u> a liner?		X	
3. Circle liner type or NA: <u>Compacted Clay</u>   Flexible Membrane   Bentonite Amendment   Other   NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

1D. SW CORNER AGITATION POINT STEEP - CHECK WHEN DRY

4c LARGE BLOCK BERRIES

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-5 Lat: 48.85365 Long: -122.51254

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	X		
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 5981 FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID 5981-5 Lat: 48.85365 Long: -122.51254

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: ? DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>152</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	170 NS	
3. Footprint - inside top - WIDTH	165 EW	
4. Embankment - Inside SS	2:1	> 2H:1V
5. Embankment - Outside SS	3:1	> 2H:1V
6. Embankment - Top Width	10'	
7. Embankment - Maximum Fill Height	6'	
8. Maximum Excavation Depth	4'	
9. Total POND Depth	10'	
10. Liner type or soil amendment condition	NATIVE CLAY	
11. Inlet type location and condition	GOOD	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	STEEP	

COMMENTS:

HARD TO TELL SLOPES DUE TO VEGETATION

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LEROY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_



OPERATOR: LEROY & RHONDA PLAGERMAN

LAUREL ROAD

AGID: **5981** FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID: 5981-5 Lat: 48.8536<sup>572</sup>~~50~~ Long: -122.51254<sup>27</sup>~~0~~

Phones: (360) 398-7662 Cell:

FARM ADDRESS: 329 BEARD ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10-23-12

MANURE/ EFFLUENT LEVEL: 15 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8+ FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10-23

Weather: SHOWERS

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?	X		
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?	X		
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	copy		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?			?
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?			?
f. Evidence of cracks in embankment soils?			?
g. Damp, soft, or slumping areas on berm?			?
h. Seepage near bottom of berm slope?			?
i. Seepage around pipes thru berm?		X	

COMMENTS:

EXTENSIVE BLACKBERRIES PREVENTED BANK ASSESSMENT

AGID: 5981

FARM NAME: BEL-LYN FARMS DAIRY

LAGOON ID: 5981-5

Lat: 48.853650

Long: -122.512540

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?	X		
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full?	X MARKER SHOWS		FREEBOARD
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X - PERG PLAN		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?		/	
14. Inlet pipes submerged?		/	
15. Downwind odor from WSP is:	Strong	Unbearable	

COMMENTS:

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LAGOON ID: 5981-5 Lat: 48.853650 Long: -122.512540

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 1980

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_ WAS SPEELMAN DAIRY

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2,517,000 Gross	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	<del>200</del> NS	DESIGN 208
4. Footprint - inside top - WIDTH	175 GW	207
5. Embankment - Inside SS	2.1	> 2H:1V
6. Embankment - Outside SS	3.0	> 2H:1V
7. Embankment - Top Width	10 DESIGN	UNABLE TO TELL CURRENT DUE TO VEG
8. Embankment - Maximum Fill Height	6.5 EST	
9. Maximum Excavation Depth	4 EST	
10. Total POND Depth	10.4	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	OK - WOODY	
15. Distance to nearest well/water depth in well in feet		390 FT
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input type="checkbox"/> Homes, <input type="checkbox"/> Roads, <input type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		270
19. Distance to nearest water course		680

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5981

FARM NAME: **BEL-LYN FARMS DAIRY**

**Notes, drawings etc**



**A. Site inventory**

LANDOWNER: August Berendsen

OPERATOR: BERENDSEN

AGID: **4946** FARM NAME: **BERENDSEN DAIRY LLC**

LAGOON ID 1-N Lat: Long:  
Phones: Cell:

FARM ADDRESS: 3125 E BADGER ROAD, EVERSON, WA 98247-9239

REVIEW INVENTORY DATE: 7-18-2012

MANURE/ EFFLUENT LEVEL: 90 % water

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1' FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 7-18-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: cloudy

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



AGID: 4946

FARM NAME: BERENDSEN DAIRY LLC

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		↓	
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?	X - CLAY		
a. Erosion of liner material?		↓	
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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LAGOON ID: Lat: Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?		/	
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?			/
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	/		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		/	
9. Waste storage pond access fenced and properly marked?		/	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		/	
11. Solids managed to <u>prevent</u> plants growing on crust?		/	
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?		/	
14. Inlet pipes submerged?	/		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4946 FARM NAME: BERENDSEN DAIRY LLC

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 90's  
 DATE ORIGINAL WASTE STORAGE POND COMPLETED: ENGINEERED - NOT NRCS

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	10,000,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	540 NS	
4. Footprint - inside top - WIDTH	160 EW	
5. Embankment - Inside SS	2.5:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	5'	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other	NORTH	
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	NONE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input checked="" type="checkbox"/> Homes, <input checked="" type="checkbox"/> Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		300
19. Distance to nearest water course		300

COMMENTS:

HOLDING IRRIGATION WATER

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

#2 S - 1980's

BURIED.

N SEEP

SW CORNER PIPING

THINE CANAL

BB ALONG W + SW

IN SS 2:1

OUT SS 3:1

DEPTH ?

HEIGHT 4'

1' ~~from~~ from TOP

#3

BY H.S

HEIFER

**A. Site inventory**

LANDOWNER: AUGUST BERENDSEN

OPERATOR: BERENDSEN

AGID: 4946 FARM NAME:

LAGOON ID 2-5 Lat: 48.9597 Long: 122.31851  
Phones: Cell:

FARM ADDRESS:

REVIEW INVENTORY DATE: 7-19-2012

MANURE/ EFFLUENT LEVEL: 75 <sup>EST</sup> %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 7-18

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: CLOUDY

Temperature: 60's

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: FARM NAME:

LAGOON ID: Lat: Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID:

FARM NAME:

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: FARM NAME:

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	150 E/W	
4. Footprint - inside top - WIDTH	150 N/S	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	2:1	> 2H:1V
7. Embankment - Top Width	8 FT	
8. Embankment - Maximum Fill Height	5 FT	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	OVERGROWN	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input type="checkbox"/> Homes, <input type="checkbox"/> Roads, <input type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		285
19. Distance to nearest water course		775

COMMENTS:


AGID:

FARM NAME:

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID:

FARM NAME:

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

OPERATOR: BERGMANSEN - HIGH SCHOOL - HELPER

AGID: 4946 FARM NAME:

LAGOON ID 3-145 Lat: 48.96490 Long: 122.31157

Phones: Cell:

FARM ADDRESS:

REVIEW INVENTORY DATE: 7-17

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

SOIL ID 107

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 7-17 Half Full

Weather: cloudy

Temperature: 60's

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: FARM NAME:

LAGOON ID: Lat: Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?	/	X	
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds? BB	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

EXTENSIVE GRASS INC. RE UNKNOWN OLD GRASS  
 BB

AGID:

FARM NAME:

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?			<input checked="" type="checkbox"/>
3. Are recycling pumps and transfer pipes functioning?			<input checked="" type="checkbox"/>
4. Is pond overflow pipe/structure clear and unobstructed?			<input checked="" type="checkbox"/>
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>		
7. Diversions/waterways maintained?			<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>		
11. Solids managed to <u>prevent</u> plants growing on crust?		<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?	<input checked="" type="checkbox"/>		
13. Actively bubbling?		<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?			<input checked="" type="checkbox"/>
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: FARM NAME:

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: ? DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180 NS	
4. Footprint - inside top - WIDTH	220 EW	
5. Embankment - Inside SS	2:5	> 2H:1V
6. Embankment - Outside SS	2:5	> 2H:1V
7. Embankment – Top Width	8'	
8. Embankment – Maximum Fill Height	5'	
9. Maximum Excavation Depth	AT LEAST 2'	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, <input checked="" type="checkbox"/> Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	FINE	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input checked="" type="checkbox"/> Homes, <input checked="" type="checkbox"/> Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		230'
19. Distance to nearest water course		740'

COMMENTS:


AGID:

FARM NAME:

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID:

FARM NAME:

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: ED LEE AND DALE BLOK

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-1 Lat: ~~48.91177~~ 48.913009 Long: ~~-122.47402~~ -122.46575

Telephone Cell 0 Work 360354-3144 -122.473534

FARM ADDRESS: 7768 BEEBE ROAD, LYNDEN

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dust Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-1 Lat: 48.91177 Long: -122.47402

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			ONE
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?	Maybe	✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			ONE
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-1 Lat: 48.91177 Long: -122.47402

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?	✓	Att	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	above surface ✓		
15. Downwind odor from WSP is:	None	✓ Faint	Distinct Strong Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-1 Lat: 48.91177 Long: -122.47402

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>159</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	270	
3. Footprint - inside top - WIDTH	130	
4. Embankment - Inside SS	>2:1	> 2H:1V
5. Embankment - Outside SS	>2:1	> 2H:1V
6. Embankment - Top Width	8	
7. Embankment - Maximum Fill Height	12	
8. Maximum Excavation Depth	?	
9. Total POND Depth	12	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	above surface	
12. Outlet ramp condition	concrete	
13. Pump/agitation site condition	concrete	

COMMENTS:

Main Lagoon - Host transfer to r from lag 27?

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

1995

**C. Does it appear that the WSP been structurally modified?**

YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED LEE AND DALE BLOK

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: ED LEE AND DALE BLOK *1-3*

AGID: **4956** FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-1 Lat: 48.911770 Long: -122.474020

Phones: (360) 354-3144 Cell: *912406*

FARM ADDRESS: 7768 BEEBE ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: *10/08/2012*

MANURE/ EFFLUENT LEVEL: *20* %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: *8* FT.

Completed by: *D. Lee* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

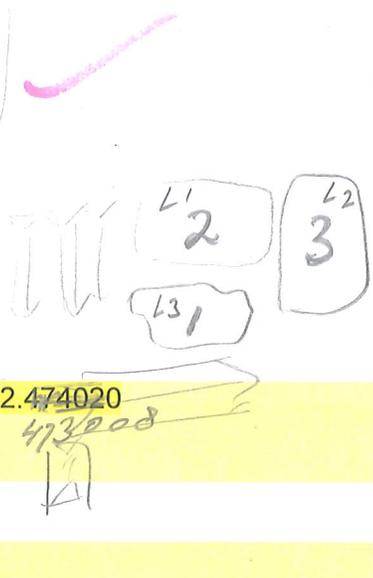
WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: *10/8/2012*

Weather: *Sunny*

Temperature: *60*

Soil surface: *dry*, moist, wet, saturated, standing water, frozen, snow covered



Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			/
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height	8	
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: ED LEE AND DALE BLOK

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-2 Lat: 48.91277 Long: -122.47263

Telephone Cell 0 Work 360354-3144

FARM ADDRESS: 7768 BEEBE ROAD, LYNDEN

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-2 Lat: 48.91277 Long: -122.47263

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			CNE
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?	✓		
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?			CNE
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Rec Barn man w/ slotted floor  
& hose transfer bag

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-2 Lat: 48.91277 Long: -122.47263

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?			
15. Downwind odor from WSP is:	None	✓ Faint	Distinct Strong Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-2 Lat: 48.91277 Long: -122.47263

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>157</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	193	
3. Footprint - inside top - WIDTH	110	
4. Embankment - Inside SS Flat		> 2H:1V
5. Embankment - Outside SS Flat		> 2H:1V
6. Embankment - Top Width NA		
7. Embankment - Maximum Fill Height NA		
8. Maximum Excavation Depth ?		
9. Total POND Depth 1/2		
10. Liner type or soil amendment condition none		
11. Inlet type location and condition hose transfer + rec from Barn		
12. Outlet ramp condition hose transfer back to Lag 1		
13. Pump/agitation site condition <del>Stump Agitator to</del> dumped to Lag 1		

COMMENTS:

lagoon in between Lag 1 & 3 no Dikes

Irregular shaped

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

17805

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED LEE AND DALE BLOK

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: ED LEE AND DALE BLOK

AGID: **4956** FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-2 Lat: 48.912770 Long: -122.472630

Phones: (360) 354-3144 Cell:

FARM ADDRESS: 7768 BEEBE ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10/8/2012

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: D MEULBEEK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: Sunny

Temperature: 60

Soil surface: dry moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?		X	
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4956 FARM NAME: **BLOKS EVERGREEN DAIRY**

**Notes, drawings etc**

9:00 am

**A. Site inventory**

LANDOWNER: ED LEE AND DALE BLOK

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID -4956-3 Lat: 48.91329 Long: -122.4716

Telephone Cell 0 Work 360354-3144

FARM ADDRESS: 7768 BEEBE ROAD, LYNDEN

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: [redacted] Agency DNMP/WSDA

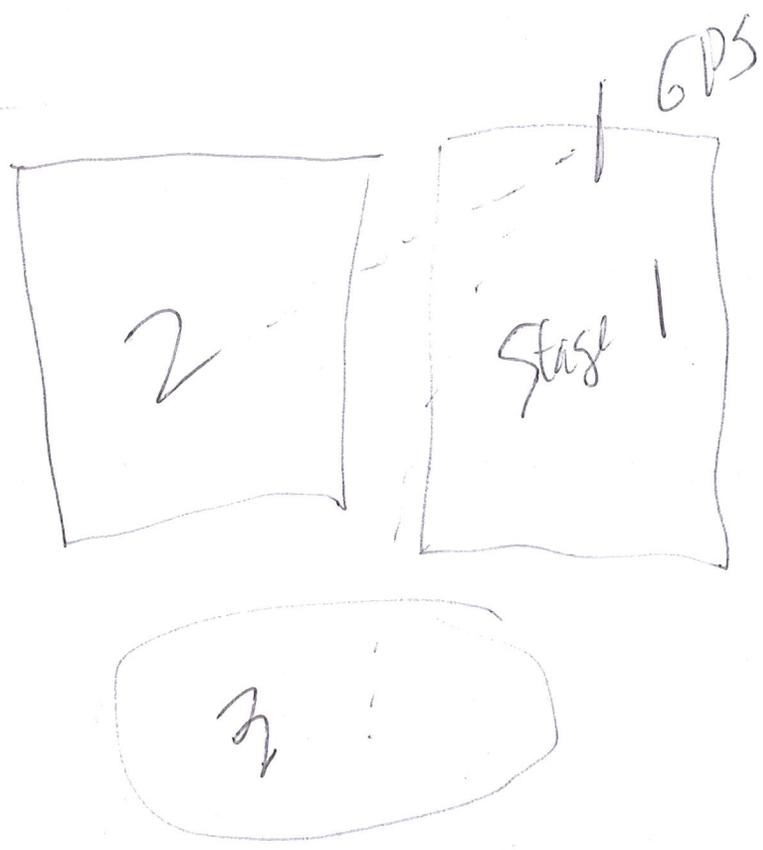
**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: [redacted]



AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-3 Lat: 48.91329 Long: -122.4716

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			CNE
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed without a liner?			
* 3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			CNE
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-3 Lat: 48.91329 Long: -122.4716

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed? <i>grazed</i>	✓		
9. Waste storage pond access fenced and properly marked?	✓		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged? <i>Hose transfer</i>		✓	
15. Downwind odor from WSP is:	None	Faint	Distinct
		Strong	Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-3 Lat: 48.91329 Long: -122.4716

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>156</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	200	
3. Footprint - inside top - WIDTH	110	
4. Embankment - Inside SS	>2:1	> 2H:1V
5. Embankment - Outside SS	>2:1	> 2H:1V
6. Embankment - Top Width	8-10	10
7. Embankment - Maximum Fill Height	11	11
8. Maximum Excavation Depth	4	4
9. Total POND Depth	15	15
10. Liner type or soil amendment condition	clay	
11. Inlet type location and condition	Hose	
12. Outlet ramp condition	concrete ramp	
13. Pump/agitation site condition	"	"

COMMENTS:

Swap Pump to Lag 1

All Land Transfer Lag 11

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

Late 90s / early 2000

Design

**C. Does it appear that the WSP been structurally modified?**

       YES        ✓   NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED LEE AND DALE BLOK

(1) Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: ED LEE AND DALE BLOK

AGID: **4956** FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-3 Lat: 48.913290 Long: -122.471600  
Phones: (360) 354-3144 Cell: 2753 7277

FARM ADDRESS: 7768 BEEBE ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10/8/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: D MEEUWBLCK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/8/2012

*mostly dry*

Weather: Sunny

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is:			

Strong Unbearable

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4956 FARM NAME: **BLOKS EVERGREEN DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: ED LEE AND DALE BLOK

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-4 Lat: 48.94347 Long: -122.47234

Telephone Cell 0 Work 360354-3144

FARM ADDRESS: 7768 BEEBE ROAD, LYNDEN

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: < 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: [Redacted] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: [Redacted]

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 3/8/12

*Handwritten notes:*  
lost by m ? 1980's Rental 5070  
NOT USED  
only Rain 2012  
loft  
Concrete corner  
GPS 73

*Handwritten:* Blypma

*Handwritten:* ~~122.47234~~ ~~48.94347~~

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-4 Lat: 48.91317 Long: -122.47234

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner? <span style="float: right;">2</span>			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA <span style="float: right;">2</span>			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-4 Lat: 48.91317 Long: -122.47234

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	na		
3. Are recycling pumps and transfer pipes functioning?	na		
4. Is pond overflow pipe/structure clear and unobstructed?	na		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?	na		
6. All roof water or clean runoff is diverted from storage?	na		
7. Diversions/waterways maintained?	na		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>		
9. Waste storage pond access fenced and properly marked?	<input checked="" type="checkbox"/>		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>		
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>		
14. Inlet pipes submerged?		<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> None <input checked="" type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-4 Lat: 48.91317 Long: -122.47234

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>161</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	224	
3. Footprint - inside top - WIDTH	140	
4. Embankment - Inside SS	> 2:1	> 2H:1V
5. Embankment - Outside SS	> 2:1	> 2H:1V
6. Embankment - Top Width	no bank	
7. Embankment - Maximum Fill Height	6ft	
8. Maximum Excavation Depth	?	
9. Total POND Depth	7'	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	hose transfer from main Dairy	
12. Outlet ramp condition	concrete	
13. Pump/agitation site condition	11	

COMMENTS:

Not used in 2011-12

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES \_\_\_\_ NO

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED LEE AND DALE BLOK

(1) Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

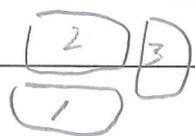
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_



OPERATOR: ED LEE AND DALE BLOK

AGID: **4956**

FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-4

Lat: 48.913170

Long: -122.472340

Phones: (360) 354-3144

Cell: 2936

65860

FARM ADDRESS: ~~7768 BEEBE ROAD~~ LYNDEN WA 98264

7489 Bylsma Rd

E WISER

REVIEW INVENTORY DATE: 12/8/2012

MANURE/ EFFLUENT LEVEL: 40% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: D MEULBLOK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/08/2012

Weather: sunny

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

#5 in rotation  
rainwater

AGID: 4956

FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-4

Lat: 48.913170

Long: -122.472340

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			)
b. Damaged material (holes, tears, seams)?			)
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

#5 in rotation  
 Half overgrown with weeds

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-4

Lat: 48.913170

Long: -122.472340

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:			

COMMENTS:

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Strong Unbearable

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4956 FARM NAME: **BLOKS EVERGREEN DAIRY**

**Notes, drawings etc**

✓  
W. Wisler Lake

**A. Site inventory**

LANDOWNER: ED LEE AND DALE BLOK

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-5 Lat: 48.91317 Long: -122.47234

Telephone Cell 0 Work 360354-3144

FARM ADDRESS: 7768 BEEBE ROAD, LYNDEN

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: PMS Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: [redacted]

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 3/8/12

Rental  
Bank ~ 10-12ft

CPS 74

2:1 Both  
5:1 outside  
- Underground line + hose  
transfer from Dairy

Concrete Sumps  
- from Barns

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-5 Lat: 48.91317 Long: -122.47234

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-5 Lat: 48.91317 Long: -122.47234

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?	✓		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?		✓	
15. Downwind odor from WSP is:	None	✓ Faint	Distinct Strong Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-5 Lat: 48.91317 Long: -122.47234

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>158</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	250	
3. Footprint - inside top - WIDTH	150	
4. Embankment - Inside SS > 2:1	>	> 2H:1V
5. Embankment - Outside SS > 5:1	>	> 2H:1V
6. Embankment - Top Width 8-10	10	
7. Embankment - Maximum Fill Height 10-12'	12	
8. Maximum Excavation Depth	?	
9. Total POND Depth	?	
10. Liner type or soil amendment condition	? ?	
11. Inlet type location and condition	under ground line + hose	transfer from manure dairy and
12. Outlet ramp condition	concrete god	underground line from
13. Pump/agitation site condition		Barn

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO ?

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED LEE AND DALE BLOK

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

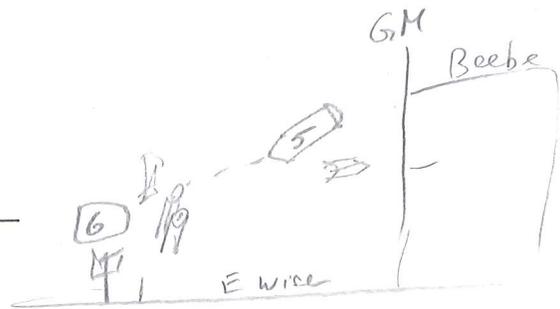
\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: \_\_\_\_\_

OPERATOR: ED LEE AND DALE BLOK

AGID: **4956** FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-6 Lat: 48.913170 Long: -122.472340

Phones: (360) 354-3144 Cell: 08109 92014

FARM ADDRESS: ~~7768 BEEBE ROAD~~ LYNDEN WA 98264

390 E Wiser Lake Rd

REVIEW INVENTORY DATE: 10/8/2012

MANURE/ EFFLUENT LEVEL: 15 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 7 FT.

Completed by: DMEULBLOK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/8/2012

Weather: Sunny

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 4956

FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-6

Lat: 48.913170

Long: -122.472340

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			/
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-6

Lat: 48.913170

Long: -122.472340

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4956 FARM NAME: **BLOKS EVERGREEN DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: ED LEE AND DALE BLOK

AGID: **4956**

FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID: 4956-5

Lat: 48.913170

Long: -122.472340

Phones: (360) 354-3144

Cell:

1564

87717

FARM ADDRESS: 7768 BEEBE ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 10/8/2012

*7447 Guide meridiana*

MANURE/ EFFLUENT LEVEL: 50 %

50

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

3

Completed by:

*D. F. C. BLOK*

Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/11/2012

*Not visited w/ ruf Blok*

*busy with corn harvest "hard to get to"*

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

*3/4' 3' not used for 5 years  
10' under*



Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4956 FARM NAME: **BLOKS EVERGREEN DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: ED LEE AND DALE BLOK

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-6 Lat: 48.91317 Long: -122.47234

Telephone Cell 0 Work 360354-3144

FARM ADDRESS: 7768 BEEBE ROAD, LYNDEN

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: \_\_\_\_\_ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: \_\_\_\_\_ Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

*- Peissma  
Did not evaluate*

*Ed Blok  
As Adv Committee  
? Rep on PEAT meetings  
EJ Blok Co Adv. com  
360 815 3165  
Not using*

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-6 Lat: 48.91317 Long: -122.47234

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-6 Lat: 48.91317 Long: -122.47234

OPERATION AND MAINTENANCE					
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section					
SITE INVENTORY QUESTION	YES	NO	NA		
1. Is there a permanent liquid level marker available to measure depth of pond?					
a. Is liquid level marker visible?					
b. Is storage capacity available for freeboard when pond is full?					
2. Are manure pump and transfer pipes functioning?					
3. Are recycling pumps and transfer pipes functioning?					
4. Is pond overflow pipe/structure clear and unobstructed?					
<b>CLEAN WATER DIVERSION</b>					
5. Perimeter drains plugged or blocked?					
6. All roof water or clean runoff is diverted from storage?					
7. Diversions/waterways maintained?					
<b>VISUAL APPEARANCE AND SAFETY</b>					
8. Site neat and recently mowed?					
9. Waste storage pond access fenced and properly marked?					
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>					
10. Crust of solids on lagoon?					
11. Solids managed to <u>prevent</u> plants growing on crust?					
12. Anaerobic lagoon is purple/pink?					
13. Actively bubbling?					
14. Inlet pipes submerged?					
15. Downwind odor from WSP is:	None	Faint	Distinct	Strong	Unbearable

COMMENTS:

AGID: 4956 FARM NAME: BLOKS EVERGREEN DAIRY

LAGOON ID 4956-6 Lat: 48.91317 Long: -122.47234

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_  
DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>160</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
3. Footprint - inside top - WIDTH		
4. Embankment - Inside SS		> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment – Top Width		
7. Embankment – Maximum Fill Height		
8. Maximum Excavation Depth		
9. Total POND Depth		
10. Liner type or soil amendment condition		
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED LEE AND DALE BLOK

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

B



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: **ATWOOD, SHAWN**

AGID: **2018** FARM NAME: **BLOSSOM TIME DAIRY**

LAGOON ID \_\_\_\_\_ Lat: N 47.06643 Long: W 122.19200

Phones: Cell: 2532501137 Work: 2532795400

FARM ADDRESS: **21108 E OROVILLE ROAD, ORTING, WA 98360**

REVIEW INVENTORY DATE: 7/9/12

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8' FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 7/9/12

Weather: Over cast

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 2018 FARM NAME: BLOSSOM TIME DAIRY

LAGOON ID: Lat: Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
3. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

Trees in lagoon and on dike

LAGOON ID: Lat: Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?		✓	
2. Are manure pump and transfer pipes functioning?		✓	
3. Are recycling pumps and transfer pipes functioning?		✓	
4. Is pond overflow pipe/structure clear and unobstructed?		✓	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?		✓	
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		✓	
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?		✓	
14. Inlet pipes submerged?		✓	
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

AGID: 2018 FARM NAME: BLOSSOM TIME DAIRY

B. LAGOON ID: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_

C. Summarize review for structural data evaluation

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>78 steps</i>	<i>195'</i>	
4. Footprint - inside top - WIDTH <i>78 steps</i>	<i>195'</i>	
5. Embankment - Inside SS	<i>1/3</i>	> 2H:1V
6. Embankment - Outside SS	<i>1/3</i>	> 2H:1V
7. Embankment - Top Width	<i>12'</i>	
8. Embankment - Maximum Fill Height	<i>12'</i>	
9. Maximum Excavation Depth	<i>0</i>	
10. Total POND Depth	<i>12'</i>	
11. Circle liner type or NA: <input checked="" type="checkbox"/> <u>Compacted Clay</u> <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other	<i>unknown</i>	
13. Outlet ramp slope and condition: none, <u>earthen</u> , gravel, concrete, other	<i>1/5 - good</i>	
14. Pump/agitation site condition	<i>good</i>	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <u>Water Coursed</u>		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		<i>150 yards</i>
19. Distance to nearest water course		<i>100 yards</i>

COMMENTS:

AGID: 2018 FARM NAME: BLOSSOM TIME DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

D. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: BLOSSOM TIME DAIRY

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 2018 FARM NAME: BLOSSOM TIME DAIRY

Notes, drawings etc

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: (9896) 11:30

AGID: OOB FARM NAME: BLUE MOUNTAIN DAIRY

LAGOON ID: 74 Lat: 48.098177 Long: \_\_\_\_\_

Phones: \_\_\_\_\_ Cell: -123-246015

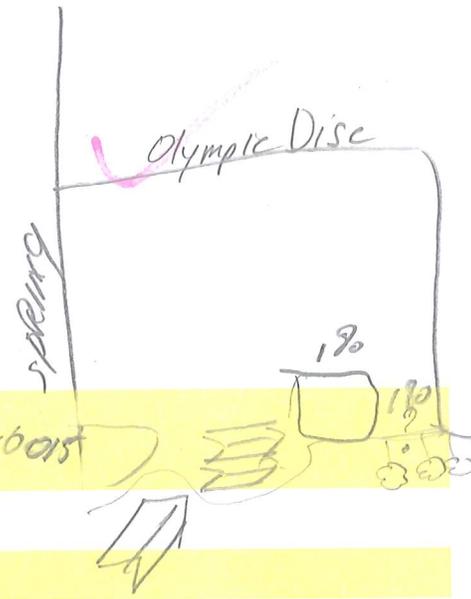
FARM ADDRESS: 493 SPRING ROAD PORT ANGLES 98362

REVIEW INVENTORY DATE: 10/26/2012

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: DICK M Agency DNMP/WSDA



**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/26/2012

Weather: overcast

Temperature: 49

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Dozen ducts, completely covered with duckweed

AGID: OOB

FARM NAME: BLUE MOUNTAIN DAIRY

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

top - } graded by horses  
 outside }

AGID: OOB

FARM NAME: BLUE MOUNTAIN DAIRY

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?	<del>X</del>		
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: OOB FARM NAME: BLUE MOUNTAIN DAIRY

LAGOON ID: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	7.3:1	> 2H:1V
7. Embankment - Top Width	12	
8. Embankment - Maximum Fill Height	10	
9. Maximum Excavation Depth	4	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		1500

COMMENTS:

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AGID: OOB FARM NAME: BLUE MOUNTAIN DAIRY

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

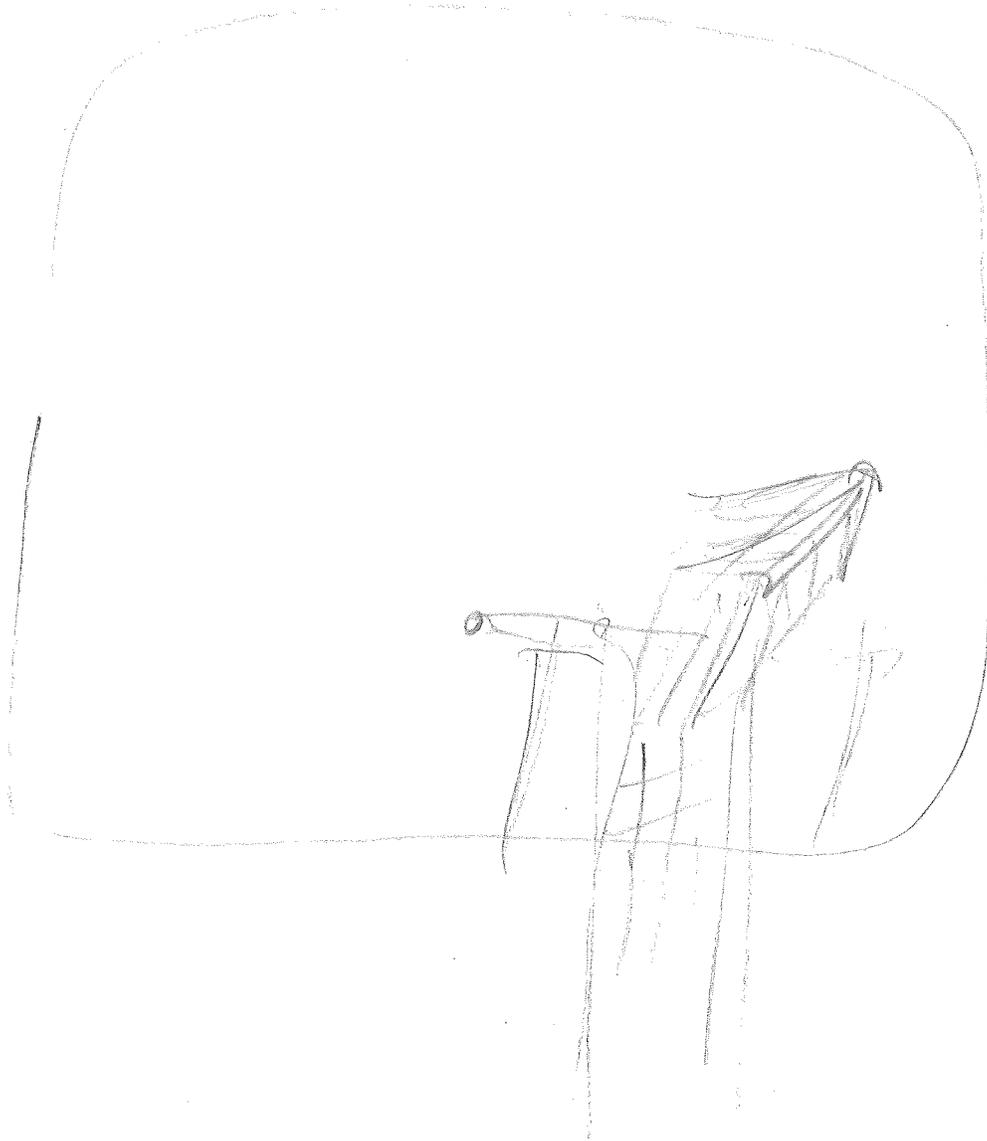
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: OOB

FARM NAME: **BLUE MOUNTAIN DAIRY**

Notes, drawings etc



A. Site inventory

LANDOWNER: **PATRICK BOUMA**

AGID: **9876** FARM NAME: **BOUMA FARMS DAIRY**

LAGOON ID **9876-1** Lat: **48.931** Long: **-122.49575**

Telephone Cell **3603542543** Work **360354-7848**

FARM ADDRESS: 7973 FLYNN ROAD, LYNDEN

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: > 4 FT.

Completed by: MICHAEL Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:



WSP is FULL (Typically late winter or early spring)

DATE: 4/27/2012



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

LOUIS  
+  
PATRICK



2:30 PM

HOME SMALL

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-1 Lat: 48.931 Long: -122.49575

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		↓	
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			↓
3. Circle liner type or NA: <u>Compacted Clay</u>   Flexible Membrane   Bentonite Amendment   Other   NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

CONCRETE BOTTOM - S + PORTION EAST SIDE CONCRETE  
 WEST SIDE BERM - STEEP - OUTSIDE BANK 15' ELEVATION

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-1 Lat: 48.931 Long: -122.49575

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		<del>X</del>
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

GRASSY BANKS ~~AND~~ ~~POUND~~

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AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-1 Lat: 48.931 Long: -122.49575

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: AMES DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1989 1970's

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>198</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	500,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	100 NS	
3. Footprint - inside top - WIDTH	59 EW	
4. Embankment - Inside SS	1.5 : 1	> 2H:1V
5. Embankment - Outside SS	1.5 : 1	> 2H:1V
6. Embankment - Top Width	5'	
7. Embankment - Maximum Fill Height	15' OUTSIDE 10' INSIDE	
8. Maximum Excavation Depth	-	
9. Total POND Depth	10'	
10. Liner type or soil amendment condition	CONCRETE BOTTOM	
11. Inlet type location and condition	PIPE GOOD	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	GOOD	

COMMENTS:

BUILT INTO HILLSIDE. WEST SIDE IS BERMED (SEE DRAWING) - BUILT IN 1970'S. ONLY USE ABOUT 50-60% OF CAPACITY DUE TO NARROW, STEEP BERM WALL

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

       YES   X   NO

**C. Does it appear that the WSP been structurally modified?**

       YES    X NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: PATRICK BOUMA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

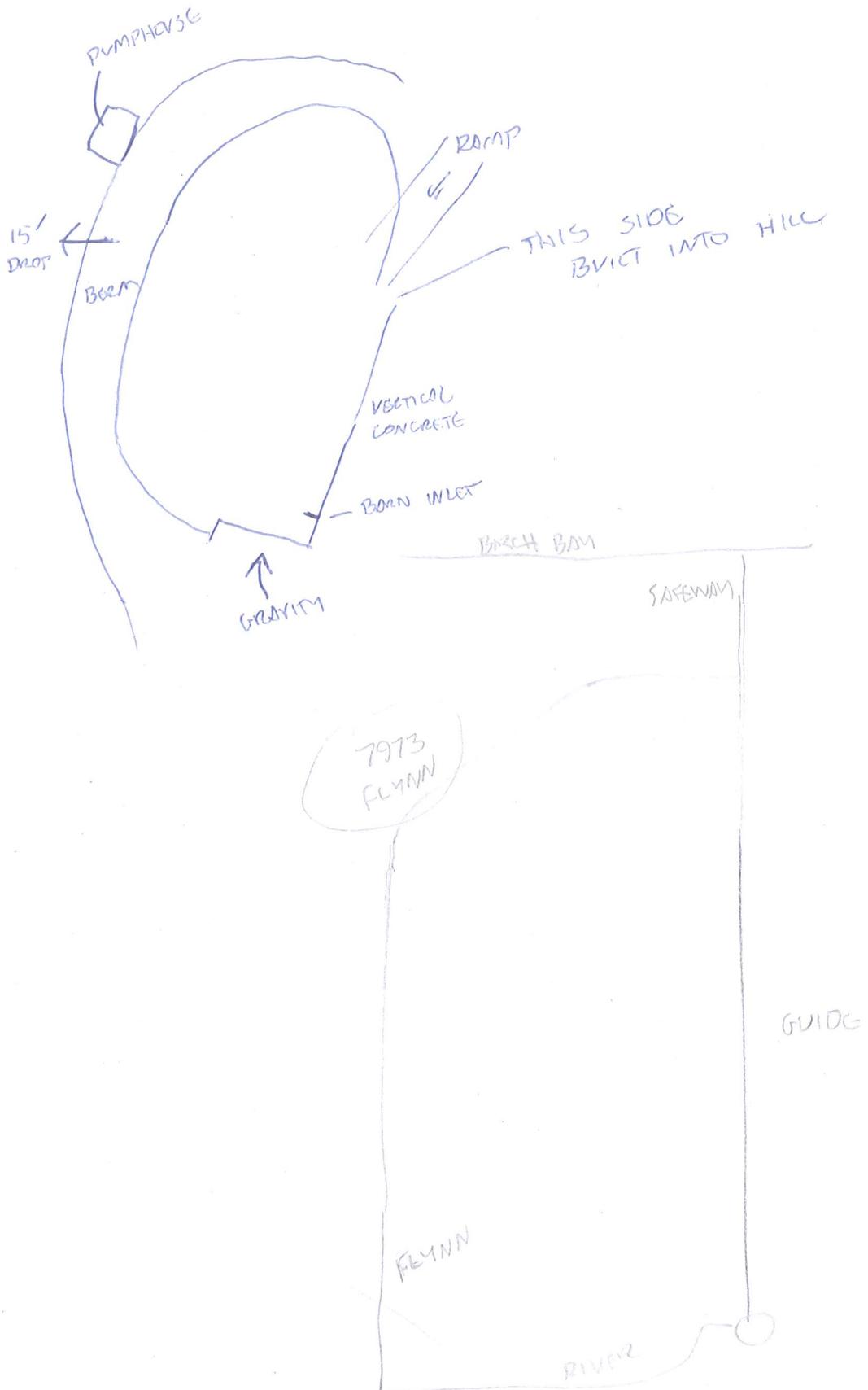
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



✓  
A. Site inventory

LANDOWNER: <sup>LOUIS</sup> PATRICK BOUMA

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-2 Lat: 48.93249<sup>18</sup> Long: -122.49508<sup>22</sup>

Telephone Cell 3603542543 Work 360354-7848

HOME LARGE ✓

FARM ADDRESS: 7973 FLYNN ROAD, LYNDEN

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: 100 % -- w/ FREEBOARD

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: MICHAEL Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:



WSP is FULL (Typically late winter or early spring)

DATE: 4-27-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-2 Lat: 48.93219 Long: -122.49568

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		↓	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed without a liner?			
3. Circle liner type or NA:	<input checked="" type="checkbox"/> Compacted Clay	<input type="checkbox"/> Flexible Membrane	<input type="checkbox"/> Bentonite Amendment
		<input type="checkbox"/> Other	<input type="checkbox"/> NA
a. Erosion of liner material?		↓	
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?		↓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-2 Lat: 48.93219 Long: -122.49568

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

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\_\_\_\_\_

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-2 Lat: 48.93219 Long: -122.49568

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1989

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>197</sup>
	983,000	
1. Storage capacity at overflow, or crest elevation if no spillway.	3,250,218 DESIGN 1 MILLION STORED BY 2/2/85	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	125 NS	
3. Footprint - inside top - WIDTH	139 EW	
4. Embankment - Inside SS	2:1	> 2H:1V
5. Embankment - Outside SS	3:1	> 2H:1V
6. Embankment - Top Width	10'	
7. Embankment - Maximum Fill Height	10'	
8. Maximum Excavation Depth	0'	
9. Total POND Depth	10'	
10. Liner type or soil amendment condition	CLAY GOOD	
11. Inlet type location and condition	PIPE GOOD	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	GOOD	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: PATRICK BOUMA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

A. Site inventory *LOUIS*  
LANDOWNER: **PATRICK BOUMA**

*Louis* ✓  
*10-28-12*

AGID: **9876** FARM NAME: **BOUMA FARMS DAIRY**

LAGOON ID **9876-3** Lat: **48.92162** Long: **-122.48826**

Telephone Cell **3603542543** Work **360354-7848**

*LOV BOUMA @ LIVE.COM*

FARM ADDRESS: 7973 FLYNN ROAD, LYNDEN

*- LOCATED AT 110 RIVER ROAD*

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: 85 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 1/2 FT.

Completed by: MICHAEL Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 4-27-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

*INSPECT THIS FALL*

*? 'S ABOUT INTEGRITY OF S. + W. LAGOON BANKS ON SMALL LAGOON*

*TA REFERRAL 1/6/11*

*\* STEVE WAS TO FOLLOW UP BY 10/2011*

*1989 1: 413,000 HOME SMALL - SCOURING  
2: 983,000 HOME LARGE  
3: NO IN NMP*

*- BOUMA  
230-3  
201-5386*

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-3 Lat: 48.92162 Long: -122.48826

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>without</u> a liner?		X	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	*
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-3 Lat: 48.92162 Long: -122.48826

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

PUMPS FROM HOME SITE. SOLID STOCK FOR HEIFERS.

~~DESIGN~~

AGID: 9876 FARM NAME: BOUMA FARMS DAIRY

LAGOON ID 9876-3 Lat: 48.92162 Long: -122.48826

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: SELF DATE: 2000

DATE ORIGINAL WASTE STORAGE POND COMPLETED: NRCS APPROVED PLANS

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>196</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	1,000,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	135	
3. Footprint - inside top - WIDTH	135	
4. Embankment - Inside SS	2:1	> 2H:1V
5. Embankment - Outside SS	3:1	> 2H:1V
6. Embankment - Top Width	8	
7. Embankment - Maximum Fill Height	8	
8. Maximum Excavation Depth	4	
9. Total POND Depth	12	
10. Liner type or soil amendment condition	CLAY GOOD	
11. Inlet type location and condition	CONCRETE - GOOD	
12. Outlet ramp condition	NA	
13. Pump/agitation site condition	GOOD	

COMMENTS:

POUND IS CIRCULAR - LOCATED AT 110 RIVER ROAD. NOT PART OF FACILITY DNMP

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

~~YES~~ YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: PATRICK BOUMA

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

✓

**A. Site inventory**

LANDOWNER: **MIKE GONSER**

LM

AGID: **9887** FARM NAME: **BRECKENRIDGE FARM DAIRY**

LAGOON ID **9887-1** Lat: **48.92787** Long: **-122.30538**

Telephone Cell **3609662453** Work **360966-4343**

FARM ADDRESS: 3382 BRECKENRIDGE ROAD, EVERSON

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: Das Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9887 FARM NAME: BRECKENRIDGE FARM DAIRY

LAGOON ID 9887-1 Lat: 48.92787 Long: -122.30538

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Black berries growing along edge

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AGID: **9887** FARM NAME: **BRECKENRIDGE FARM DAIRY**

LAGOON ID **9887-1** Lat: 48.92787 Long: -122.30538

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

DOT Fenced

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AGID: 9887 FARM NAME: BRECKENRIDGE FARM DAIRY

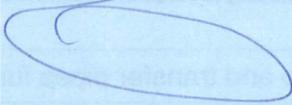
LAGOON ID 9887-1 Lat: 48.92787 Long: -122.30538

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1987?

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>60</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>100 steps</u>	<u>250'</u>	
3. Footprint - inside top - WIDTH <u>35 steps</u>	<u>85'</u>	
4. Embankment - Inside SS	<u>1/2</u>	> 2H:1V
5. Embankment - Outside SS	<u>1/3</u>	> 2H:1V
6. Embankment - Top Width	<u>10'</u>	
7. Embankment - Maximum Fill Height	<u>25'</u>	
8. Maximum Excavation Depth	<u>15'</u>	
9. Total POND Depth	<u>40' ???</u>	
10. Liner type or soil amendment condition	<u>unknown</u>	
11. Inlet type location and condition	<u>good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO Prod Design

**C. Does it appear that the WSP been structurally modified?**

YES       NO      ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME: MIKE GONSER

(1) Was the WSP modification designed? CIRCLE ONE:  YES       NO      NA  
If yes, list: Designer Producer      Date \_\_\_\_\_

*(Code for compliance)*

(2) Date of modification construction? 1998

(3) Description of structural modification: lengthened lagoon.

(4) Describe impact of modification on structural integrity: probably - too much gravel

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : unknown

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

DATE 11-29-11 STAFF **CM** FAC. SITE KEY **0** STATUS **Active** ✓

Snohomish

FARM NAME **BUELER FARMS INC** AG ID **4826**

FARM ADDRESS **8626 E Lowell-Larimer Road near Snohomish**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

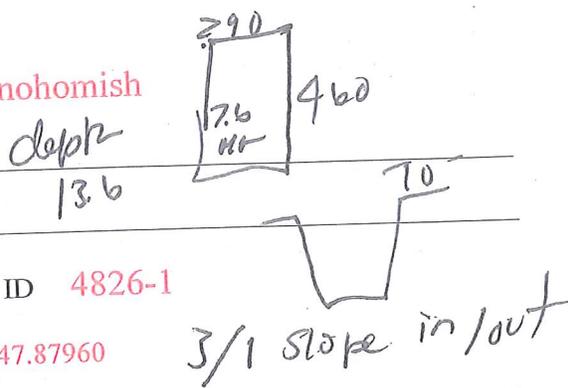
# OF LAGOONS MANAGED UNDER NMP **2** THIS LAGOON ID **4826-1**

LONGITUDE **-122.11547**

LATITUDE **47.87960**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY **NELIS 9697**  PICTURES TAKEN

TODAY LIQUID LEVEL IS 12 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION



Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> <b>Compacted Clay</b> <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>NA</b>			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: MIKE BUELER

AGID: **4826** FARM NAME: BUELER FARMS INC

*2nd  
Nearly  
empty*

LAGOON ID: 4826-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Phones: (360) 668-3950 Cell: \_\_\_\_\_

FARM ADDRESS: 8626 E LOWELL-LARIMER ROAD SNOHOMISH WA 98290

REVIEW INVENTORY DATE: 10/17/2012

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: DARK 17 Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/17/2012

Weather: SUNNY

Temperature: 61

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 4826

FARM NAME: BUELER FARMS INC

LAGOON ID: 4826-1Lat:

Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?	X		
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?		X	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	Strong Unbearable		

COMMENTS:

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LAGOON ID: 4826-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4826 FARM NAME: **BUELER FARMS INC**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: **MIKE BUELER**

AGID: **4826** FARM NAME: **BUELER FARMS INC**

LAGOON ID **4826-1** Lat: **47.8796** Long: **-122.11547**

Telephone Cell Work

FARM ADDRESS: **8626 E LOWELL-LARIMER ROAD, SNOHOMISH**

REVIEW INVENTORY DATE: 5-12-12

MANURE/ EFFLUENT LEVEL: 95% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: \_\_\_\_\_ Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 5-12-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

~~1000 ft to ditch~~

AGID: 4826 FARM NAME: BUELER FARMS INC

LAGOON ID 4826-1 Lat: 47.8796 Long: -122.11547

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?		✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?	✓		
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 4826 FARM NAME: BUELER FARMS INC

LAGOON ID 4826-1 Lat: 47.8796 Long: -122.11547

OPERATION AND MAINTENANCE					
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section					
SITE INVENTORY QUESTION	YES	NO	NA		
1. Is there a permanent liquid level marker available to measure depth of pond?		✓			
a. Is liquid level marker visible?		✓			
b. Is storage capacity available for freeboard when pond is full?	✓				
2. Are manure pump and transfer pipes functioning?	✓				
3. Are recycling pumps and transfer pipes functioning?	✓				
4. Is pond overflow pipe/structure clear and unobstructed?	✓				
<b>CLEAN WATER DIVERSION</b>					
5. Perimeter drains plugged or blocked?			✓		
6. All roof water or clean runoff is diverted from storage?	✓				
7. Diversions/waterways maintained?	✓				
<b>VISUAL APPEARANCE AND SAFETY</b>					
8. Site neat and recently mowed? <i>Goats</i>	✓				
9. Waste storage pond access fenced and properly marked?	✓				
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>					
10. Crust of solids on lagoon?		✓			
11. Solids managed to <u>prevent</u> plants growing on crust?	✓				
12. Anaerobic lagoon is purple/pink?		✓			
13. Actively bubbling?	✓				
14. Inlet pipes submerged?		✓			
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4826 FARM NAME: BUELER FARMS INC

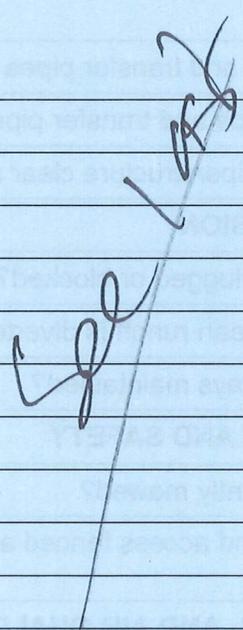
LAGOON ID 4826-1 Lat: 47.8796 Long: -122.11547

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>4</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
3. Footprint - inside top - WIDTH		
4. Embankment - Inside SS		> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment - Top Width		
7. Embankment - Maximum Fill Height		
8. Maximum Excavation Depth		
9. Total POND Depth		
10. Liner type or soil amendment condition		
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: MIKE BUELER

(1) Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

*Becker  
man  
lump*

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: ~~8-17-12~~  
5-12-12  
DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	450	
3. Footprint - inside top - WIDTH	300	
4. Embankment - Inside SS	1:1	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	14 Ft	
7. Embankment - Maximum Fill Height	15	
8. Maximum Excavation Depth	1	
9. Total POND Depth	16	
10. Liner type or soil amendment condition	Clay liner	
11. Inlet type location and condition	gravel	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

*over 100 yr flood  
goals on bank between black*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES      \_\_\_\_ NO

*NRCS 2000*



DATE 11-29-11 STAFF **CM** FAC. SITE KEY **0** STATUS **Active**

FARM NAME **BUELER FARMS INC** AG ID **4826**

FARM ADDRESS **8626 E. Lowell-Larimer Road near Snohomish**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **2** THIS LAGOON ID **4826-2**

LONGITUDE **-122.11547** *PLUSH* LATITUDE **47.87960**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 2 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION



Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner? <i>85 2</i>			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in the COMMENT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		

**CLEAN WATER DIVERSION**

5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		

**VISUAL APPEARANCE AND SAFETY**

8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?			

*yes goats! - for goats*

**O & M ITEMS FOR ODOR AND AIR QUALITY**

10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?		✓	
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?			
15. Downwind odor from WSP is:	None	Faint	Distinct

Earthen Structural Review comments	Operations and Maintenance comments
<i>few black berries goats are taking care of her</i>	
<i>1, 2 combined, now flush pump</i>	

**A. Site inventory**

LANDOWNER: **MIKE BUELER**

AGID: **4826** FARM NAME: **BUELER FARMS INC**

LAGOON ID **4826-2** Lat: **47.8796** Long: **-122.11547**

Telephone Cell Work

FARM ADDRESS: **8626 E LOWELL-LARIMER ROAD, SNOHOMISH**

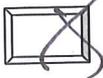
REVIEW INVENTORY DATE: 5-1-12

MANURE/ EFFLUENT LEVEL: Full %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: \_\_\_\_\_ Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 5-1-12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

~~1,000 Ft to drainage ditch~~

*Snohomish*  
*2nd nearly full*



AGID: 4826 FARM NAME: BUELER FARMS INC

LAGOON ID 4826-2 Lat: 47.8796 Long: -122.11547

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?		✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?	✓		
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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AGID: 4826 FARM NAME: BUELER FARMS INC

LAGOON ID 4826-2 Lat: 47.8796 Long: -122.11547

OPERATION AND MAINTENANCE					
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section					
SITE INVENTORY QUESTION	YES	NO	NA		
1. Is there a permanent liquid level marker available to measure depth of pond?		/			
a. Is liquid level marker visible?		/			
b. Is storage capacity available for freeboard when pond is full?		/			
2. Are manure pump and transfer pipes functioning?	/				
3. Are recycling pumps and transfer pipes functioning?	/				
4. Is pond overflow pipe/structure clear and unobstructed?	/	/			
<b>CLEAN WATER DIVERSION</b>					
5. Perimeter drains plugged or blocked?			/		
6. All roof water or clean runoff is diverted from storage?	/				
7. Diversions/waterways maintained?	/				
<b>VISUAL APPEARANCE AND SAFETY</b>					
8. Site neat and recently mowed?	/				
9. Waste storage pond access fenced and properly marked?	/				
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>					
10. Crust of solids on lagoon?		/			
11. Solids managed to <u>prevent</u> plants growing on crust?	/				
12. Anaerobic lagoon is purple/pink?		/			
13. Actively bubbling?	/				
14. Inlet pipes submerged?		/			
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4826 FARM NAME: BUELER FARMS INC

LAGOON ID 4826-2 Lat: 47.8796 Long: -122.11547

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>3</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	<i>See last</i>	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
3. Footprint - inside top - WIDTH		
4. Embankment - Inside SS		> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment - Top Width		
7. Embankment - Maximum Fill Height		
8. Maximum Excavation Depth		
9. Total POND Depth		
10. Liner type or soil amendment condition		
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: MIKE BUELER

(1) Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

*Book*

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 5-1-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	592	
3. Footprint - inside top - WIDTH	150	
4. Embankment - Inside SS	Fill	> 2H:1V
5. Embankment - Outside SS	3.2	> 2H:1V
6. Embankment - Top Width	14 FT	
7. Embankment - Maximum Fill Height	15	
8. Maximum Excavation Depth	A	
9. Total POND Depth	1.9	
10. Liner type or soil amendment condition	Compacted soil w/ clay	
11. Inlet type location and condition	PVC above - <u>empty</u>	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

*In 2000 brought up to standards inspection by dam safety. Booked up banks.*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES \_\_\_\_ NO

*NRCS 1980's*



**A. Site inventory**

✓  
*2nd Area  
empty*

LANDOWNER: \_\_\_\_\_

OPERATOR: MIKE BUELER *12*

AGID: **4826** FARM NAME: BUELER FARMS INC

LAGOON ID: 4826-2 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 668-3950 Cell: \_\_\_\_\_

FARM ADDRESS: 8626 E LOWELL-LARIMER ROAD SNOHOMISH WA 98290

REVIEW INVENTORY DATE: 10/17/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 22 FT.

Completed by: DIRK H. Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/17/2012

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 4826

FARM NAME: BUELER FARMS INC

LAGOON ID: 4826-2Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 4826

FARM NAME: BUELER FARMS INC

LAGOON ID: 4826-2Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

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LAGOON ID: 4826-2

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 4826

FARM NAME: BUELER FARMS INC

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4826

FARM NAME: **BUELER FARMS INC**

**Notes, drawings etc**

Pierce

DATE 5-4-12 STAFF **CM** FAC. SITE KEY **8386878** STATUS **Active**

FARM NAME **BURTON HAUGEN DAIRY** AG ID **8261**

FARM ADDRESS **26307 Sumner-Buckly Highway near Buckley**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **8261-1**

LONGITUDE **-122.07192000000001** LATITUDE **47.17698**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS 3 FT / 5 FT FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION  
15% 50%

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.

SITE INVENTORY QUESTION	YES		NO		NA
	#1	#2	#1	#2	
1. Embankment Interior and liner erosion observed?					
a. Due to wave action?			✓	✓	
b. In vicinity of waste inlet structure?			✓	✓	
c. Due to erosion from rainfall?			✓	✓	
d. Near agitation equipment access points?			✓	✓	
2. Pond was constructed without a liner?			✓	✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> <b>Compacted Clay</b> <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA					
a. Erosion of liner material?			✓	✓	
b. Damaged material (holes, tears, seams)?			✓	✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			✓	✓	
4. Signs of embankment damage?			✓	✓	
a. Due to burrowing animals?			✓	✓	
b. Presence of trees or woody vegetation?			✓	✓	
c. Presence of large weeds? <u>blackberries</u>	✓	✓			
d. Evidence of overtopping of embankment?			✓	✓	
e. Evidence of soil erosion or gully on embankment?			✓	✓	
f. Evidence of cracks in embankment soils?			✓	✓	
g. Damp, soft, or slumping areas on berm?			✓	✓	
h. Seepage near bottom of berm slope?			✓	✓	
i. Seepage around pipes thru berm?			✓	✓	



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID»

Lat: «Latitude» Long: «Longitude»

~~154~~  
5412

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

Hanges  
#1

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	3PT 3M 7590	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	160	
3. Footprint - inside top - WIDTH	175	
4. Embankment - Inside SS	Full	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	12 FT	
7. Embankment - Maximum Fill Height	6	
8. Maximum Excavation Depth	6	
9. Total POND Depth	12	
10. Liner type or soil amendment condition	Compact Clay	
11. Inlet type location and condition	gravelly - PVC	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

NRCS ~~is~~ 90% configured.  
good grass stand

Organic - few blackberries have been mowing

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES      \_\_\_\_ NO

96% NRCS



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID»

Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 5-4-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

#2  
Burton  
Hagen

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	50% SFT 2MG	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	165	
3. Footprint - inside top - WIDTH	180	
4. Embankment - Inside SS	3:2	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	12	
7. Embankment - Maximum Fill Height	6	
8. Maximum Excavation Depth	6	
9. Total POND Depth	12	
10. Liner type or soil amendment condition	Compact clay	
11. Inlet type location and condition	SW corner flume	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

NRCS ~~98~~ 98 - confirmed!

Organic- blackberries been mowing and grazing

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO



**A. Site inventory**

11 ✓  
Burton

LANDOWNER: \_\_\_\_\_

OPERATOR: BURTON HAUGEN

AGID: **8261** FARM NAME: BURTON HAUGEN DAIRY

LAGOON ID: 8261-1 Lat: 47.177319 Long: -122.077845

Phones: (360) 829-1261 Cell: (253) 334-5395

FARM ADDRESS: 26307 SUMNER-BUCKLY HIGHWAY BUCKLEY WA 98321

REVIEW INVENTORY DATE: 10/15/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: DICK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/15/2012

Weather: Overcast

Temperature: 49

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 8261

FARM NAME: BURTON HAUGEN DAIRY

LAGOON ID: 8261-1

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		<input checked="" type="checkbox"/>	
b. In vicinity of waste inlet structure?		<input checked="" type="checkbox"/>	
c. Due to erosion from rainfall?		<input checked="" type="checkbox"/>	
d. Near agitation equipment access points?		<input checked="" type="checkbox"/>	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			<input checked="" type="checkbox"/>
b. Damaged material (holes, tears, seams)?			<input checked="" type="checkbox"/>
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			<input checked="" type="checkbox"/>
3. Signs of embankment damage?			
a. Due to burrowing animals?		<input checked="" type="checkbox"/>	
b. Presence of trees or woody vegetation?		<input checked="" type="checkbox"/>	
c. Presence of large weeds?		<input checked="" type="checkbox"/>	
d. Evidence of overtopping of embankment?		<input checked="" type="checkbox"/>	
e. Evidence of soil erosion or gully on embankment?		<input checked="" type="checkbox"/>	
f. Evidence of cracks in embankment soils?		<input checked="" type="checkbox"/>	
g. Damp, soft, or slumping areas on berm?		<input checked="" type="checkbox"/>	
h. Seepage near bottom of berm slope?		<input checked="" type="checkbox"/>	
i. Seepage around pipes thru berm?		<input checked="" type="checkbox"/>	

COMMENTS:

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AGID: 8261

FARM NAME: BURTON HAUGEN DAIRY

LAGOON ID: 8261-1

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?			X
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 8261-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180	
4. Footprint - inside top - WIDTH	180	
5. Embankment - Inside SS	72:1	> 2H:1V
6. Embankment - Outside SS	72:1	> 2H:1V
7. Embankment - Top Width	12	
8. Embankment - Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 8261 FARM NAME: BURTON HAUGEN DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 8261

FARM NAME: **BURTON HAUGEN DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: BURTON HAUGEN

AGID: **8261** FARM NAME: BURTON HAUGEN DAIRY

LAGOON ID: 8261-2 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 829-1261 Cell: (253) 334-5395

FARM ADDRESS: 26307 SUMNER-BUCKLY HIGHWAY BUCKLEY WA 98321

REVIEW INVENTORY DATE: 10/15/2012

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: DIRK M Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/15/2012

Weather: Over cast

Temperature: 49

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked <b>"YES"</b> ; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 8261

FARM NAME: BURTON HAUGEN DAIRY

LAGOON ID: 8261-2

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		/	
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?		/	
3. Are recycling pumps and transfer pipes functioning?	/		
4. Is pond overflow pipe/structure clear and unobstructed?	/		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?			x
7. Diversions/waterways maintained?			x
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	x		
9. Waste storage pond access fenced and properly marked?	x		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		x	
11. Solids managed to <u>prevent</u> plants growing on crust?		x	
12. Anaerobic lagoon is purple/pink?		x	
13. Actively bubbling?		x	
14. Inlet pipes submerged?		/	
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height	8	
9. Maximum Excavation Depth	4	
10. Total POND Depth	12	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 8261

FARM NAME: **BURTON HAUGEN DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: CHAD POSTMA

*360 815-2730*  
*1-3*

AGID: **10043** FARM NAME: CHAD POSTMA DAIRY

LAGOON ID: 10043-1 Lat: 48.907683 Long: -122.508603

Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 518 W WISER LAKE RD FERNDALE WA 98248

REVIEW INVENTORY DATE: 9/10/12

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5.9 FT.

Completed by: *DM McNeill* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/10/2012

Weather: Sunny

Temperature: 62

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X	<del>X</del>	
c. Presence of large weeds?	X	<del>X</del>	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	X

COMMENTS:

3 trees had been sprayed. Dead, small trees.  
 f: unable to conduct N embankment  
 River is down slope.

AGID: 10043

FARM NAME: CHAD POSTMA DAIRY

LAGOON ID: 10043-1

Lat: 48.907683

Long: -122.508603

OPERATION AND MAINTENANCE

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		<del>X</del>
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			A
6. All roof water or clean runoff is diverted from storage?	A		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<del>X</del>	X	
9. Waste storage pond access fenced and properly marked?	X	X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	<del>X</del>	X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

8: needs mowing - owner killed 3-5' trees along W and E bank.

AGID: 10043 FARM NAME: CHAD POSTMA DAIRY

LAGOON ID: 10043-1 Lat: 48.907683 Long: -122.508603

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 9/9'

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1000000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>NS</u>	170	
4. Footprint - inside top - WIDTH <u>EW</u>	200	
5. Embankment - Inside SS	3:2:1	> 2H:1V
6. Embankment - Outside SS	UNABLE	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	2'	
9. Maximum Excavation Depth	8	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. <u>Outlet ramp</u> slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	Good	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		300
19. Distance to nearest water course		900 500'

COMMENTS:

wells  
 19: 500' to ditch  
 900' to Hooksett Rv  
 NW.

AGID: 10043 FARM NAME: CHAD POSTMA DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

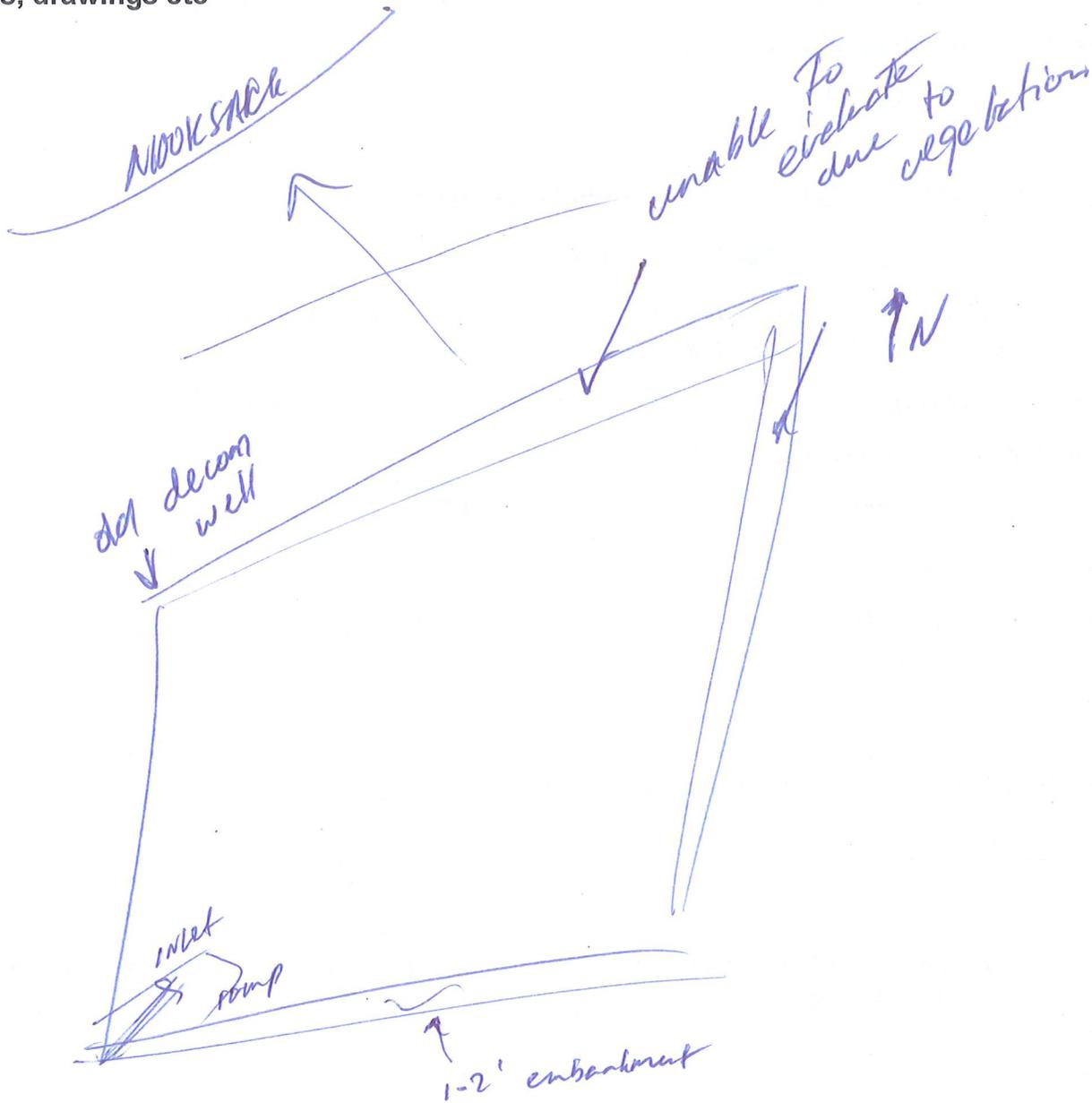
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



**A. Site inventory**

LANDOWNER: Randy & Marky Stuit (SITE) ✓

PROVIDED LIMITED ACCESS - LAGOONS + ADJ FARMLAND FOR SALE

OPERATOR: STATE LEASES

AGID: 52 FARM NAME: CIRCLE S FARMS DAIRY

LAGOON ID 1 (WEST) Lat: 48.99540 Long: 122.20513

Phones: Cell:

FARM ADDRESS: 9748 LENHART ROAD, SUMAS, WA 98295-9408

REVIEW INVENTORY DATE: 7-13-2012

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 7-13

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

#1 1.000  
#2 2.000  
98  
2005  
BONSON

Weather: cloudy

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		<input checked="" type="checkbox"/>	
a. Due to wave action?		<input checked="" type="checkbox"/>	
b. In vicinity of waste inlet structure?		<input checked="" type="checkbox"/>	
c. Due to erosion from rainfall?		<input checked="" type="checkbox"/>	
d. Near agitation equipment access points?		<input checked="" type="checkbox"/>	
2. Pond was constructed <u>with</u> a liner? <i>NATIVE CLAY</i>		<input checked="" type="checkbox"/>	
a. Erosion of liner material?			<input checked="" type="checkbox"/>
b. Damaged material (holes, tears, seams)?			<input checked="" type="checkbox"/>
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			<input checked="" type="checkbox"/>
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?		<input checked="" type="checkbox"/>	
c. Presence of large weeds?	<input checked="" type="checkbox"/>		
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

*DID NOT WALK AROUND LAGOONS - TALL GRASS PREVENTED ASSESSMENT OF EMBANKMENT*

LAGOON ID:

Lat:

Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?			X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

SUBSTANTIAL SOLIDS W/ GRASS GROWING ON PORTIONS OF LAGOON - OWNER STATES LAGOONS HAVE NEVER BEEN AGITATED + PUMPED SINCE GOING OOB IN 2005

AGID: 52 FARM NAME: CIRCLE S FARMS DAIRY

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS-BONSEN DATE: ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1 MIL. EST.	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	230 EW	
4. Footprint - inside top - WIDTH	150 NS	
5. Embankment - Inside SS	2.5 : 1	> 2H:1V
6. Embankment - Outside SS	3 : 1	> 2H:1V
7. Embankment - Top Width	?	
8. Embankment - Maximum Fill Height	?	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other	?	
14. Pump/agitation site condition	?	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input type="checkbox"/> Homes, <input type="checkbox"/> Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		N
18. Distance to nearest home/dwelling		375
19. Distance to nearest water course		10

COMMENTS:

SEE DRAWING

IMMEDIATELY ADJACENT TO SPAR CR

AGID: 52 FARM NAME: CIRCLE S FARMS DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

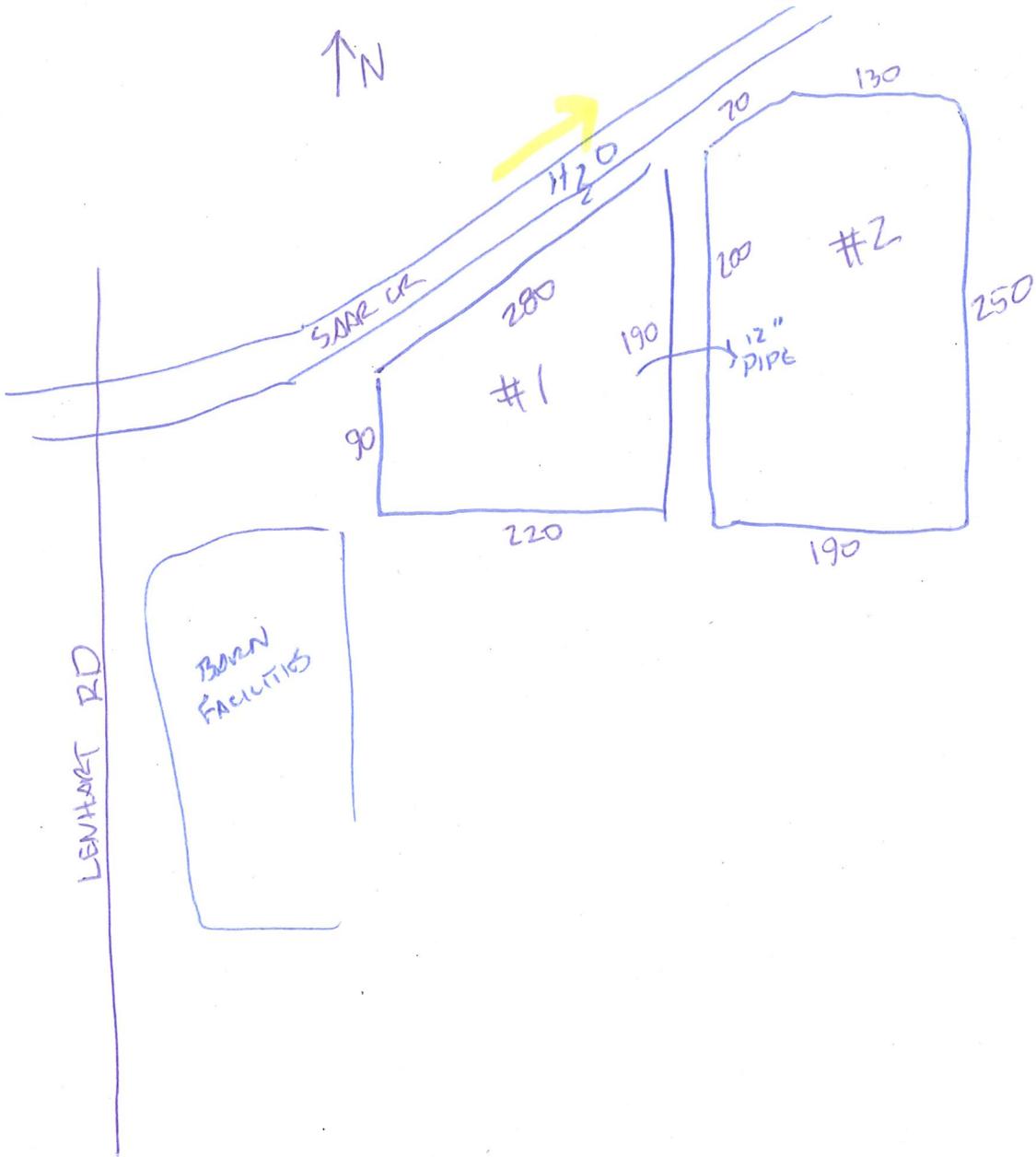
(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



**A. Site inventory**

LANDOWNER: STUIT

OPERATOR: LEASED

AGID: 52 FARM NAME: CIRCLE S FARMS DAIRY

LAGOON ID 2 (EAST) Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 9748 LEMBERT RD SUMAS 98295-9408

REVIEW INVENTORY DATE: 7-18-2012

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)  
DATE: 7-18

WSP is near empty (Typically late summer or early fall, depending on operation management)  
DATE: \_\_\_\_\_

DID NOT SEE LAGOON.  
OWNER SAID IT WAS SOME STATUS AS #1 LAGOON

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: FARM NAME:

LAGOON ID: Lat: Long:

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID:

FARM NAME:

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: FARM NAME:

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS-BONSEN DATE: 1998

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2 Mil. EST	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	190 EW	
4. Footprint - inside top - WIDTH	250 NS	
5. Embankment - Inside SS	?	> 2H:1V
6. Embankment - Outside SS	?	> 2H:1V
7. Embankment - Top Width	?	
8. Embankment - Maximum Fill Height	?	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA	?	
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other	12" pipe from #1	
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other	?	
14. Pump/agitation site condition	?	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		<input checked="" type="checkbox"/>
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		525'
19. Distance to nearest water course		50 ft

COMMENTS:

SEE DRAWING ON #1

AGID:

FARM NAME:

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID:

FARM NAME:

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

OPERATOR: ARLYN VISSER



AGID: **9926** FARM NAME: **CLEARBROOK HOLSTEINS DAIRY**

LAGOON ID: 9926-1 Lat: 48.984150 Long: -122.321610

Phones: (360) 988-5293 Cell: (360) 815-7019

FARM ADDRESS: 9451 SWANSON ROAD SUMAS WA 98295

REVIEW INVENTORY DATE: 9/19/2012

MANURE/ EFFLUENT LEVEL: 1045 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 7 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/19/2012

Weather: Sunny

Temperature: 74

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID: 9926-1

Lat: 48.984150

Long: -122.321610

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?		1	
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		C	
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID: 9926-1

Lat: 48.984150

Long: -122.321610

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are recycling pumps and transfer pipes functioning?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Is pond overflow pipe/structure clear and unobstructed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Diversions/waterways maintained?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?		<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID: 9926-1

Lat: 48.984150

Long: -122.321610

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	10	
9. Maximum Excavation Depth	2	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_

AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

**Notes, drawings etc**

✓      ✎  
**A. Site inventory**

LANDOWNER: **ARLYN VISSER**

AGID: **9926** FARM NAME: **CLEARBROOK HOLSTEINS DAIRY**

LAGOON ID **9926-2** Lat: **48.985403** Long: **-122.318561**

Telephone Cell **3608157019** Work **360988-5293**

FARM ADDRESS: 9451 SWANSON ROAD, SUMAS

REVIEW INVENTORY DATE: 3/13/12

MANURE/ EFFLUENT LEVEL: 00 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/13/12

WSP is near empty (Typically late summer or early fall,  
depending on operation management)

DATE: \_\_\_\_\_

AGID: 9926 FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID 9926-2 Lat: 48.985403 Long: -122.318561

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u>   Flexible Membrane   Bentonite Amendment   Other   NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Black berms along edge

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AGID: 9926 FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID 9926-2 Lat: 48.985403 Long: -122.318561

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			Y
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		Y	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	Y		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?			X
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

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\_\_\_\_\_

AGID: 9926 FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID 9926-2 Lat: 48.985403 Long: -122.318561

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1990's

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>299</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>50</u>	<u>125'</u>	
3. Footprint - inside top - WIDTH <u>46 steps</u>	<u>115'</u>	
4. Embankment - Inside SS	<u>unknown</u>	> 2H:1V
5. Embankment - Outside SS	<u>1/3</u>	> 2H:1V
6. Embankment - Top Width	<u>8'</u>	
7. Embankment - Maximum Fill Height	<u>10'</u>	
8. Maximum Excavation Depth	<u>0</u>	
9. Total POND Depth	<u>10'</u>	
10. Liner type or soil amendment condition	<u>clay good</u>	
11. Inlet type location and condition	<u>Pipe good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ARLYN VISSER

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

OPERATOR: ARLYN VISSER

AGID: **9926**

FARM NAME: **CLEARBROOK HOLSTEINS DAIRY**

LAGOON ID: 9926-2

Lat: 48.985403

Long: -122.318561

Phones: (360) 988-5293

Cell: (360) 815-7019

FARM ADDRESS: 9451 SWANSON ROAD SUMAS WA 98295

REVIEW INVENTORY DATE: 9/19/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: DAN M Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/19/2012

Weather: sun

Temperature: 74

Soil surface: 0 dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID: 9926-2

Lat: 48.985403

Long: -122.318561

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?	✓		
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID: 9926-2

Lat: 48.985403

Long: -122.318561

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		X	
6. All roof water or clean runoff is diverted from storage?		X	
7. Diversions/waterways maintained?		X	
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

LAGOON ID: 9926-2

Lat: 48.985403

Long: -122.318561

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height	8	
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GUD	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9926

FARM NAME: CLEARBROOK HOLSTEINS DAIRY

**Notes, drawings etc**

# Two Inspections ✓ Skagit

DATE 2-16-12 STAFF **CM** FAC. SITE KEY **482202** STATUS **Active**

FARM NAME **CLAM BAR DAIRY** AG ID **5714**

FARM ADDRESS **21466 Wyle Road near Mount Vernon**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **5714-1**

LONGITUDE **-122.37875** LATITUDE **48.33445**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 3/5 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

#2 100 Ft Creek  
#1 107 Ft Creek

#1 #2  
3/5  
50%, 30%

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	1 YES	2 NO	NA
1. Embankment Interior and liner erosion observed?		✓	✓
a. Due to wave action?		✓	✓
b. In vicinity of waste inlet structure?		✓	✓
c. Due to erosion from rainfall?		✓	✓
d. Near agitation equipment access points?		✓	✓
2. Pond was constructed <u>without</u> a liner?		✓	✓
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?			✓
b. Damaged material (holes, tears, seams)?			✓
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	✓
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	✓
b. Presence of trees or woody vegetation?		✓	✓
c. Presence of large weeds?	✓	✓	
d. Evidence of overtopping of embankment?		✓	✓
e. Evidence of soil erosion or gully on embankment?		✓	✓
f. Evidence of cracks in embankment soils?		✓	✓
g. Damp, soft, or slumping areas on berm?		✓	✓
h. Seepage near bottom of berm slope?		✓	✓
i. Seepage around pipes thru berm?			

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in the COMMENT section

SITE INVENTORY QUESTION	1 YES 2	1 NO 2	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?			✓
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		✓	
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?			✓
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Faint	<input type="checkbox"/> Distinct
	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

Earthen Structural Review comments	Operations and Maintenance comments
Stage two need NRCS evaluation	
Narrow, uneven bank with trees by creek.	

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

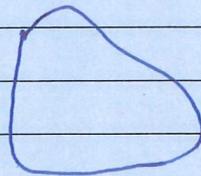
Clam  
#1

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 2-16-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	127	
3. Footprint - inside top - WIDTH	100	
4. Embankment - Inside SS	3:2	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	8	
7. Embankment - Maximum Fill Height	9	
8. Maximum Excavation Depth	?	
9. Total POND Depth	9	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	?	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:



Substantiated bank.

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID»

Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_

DATE: 2-16-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	144	
3. Footprint - inside top - WIDTH	85	
4. Embankment - Inside SS	Sloep	> 2H:1V
5. Embankment - Outside SS	?	> 2H:1V
6. Embankment - Top Width	Uneven 4-8	
7. Embankment - Maximum Fill Height	10	
8. Maximum Excavation Depth	?	
9. Total POND Depth	10	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	?	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

Uneven top bank. Trees on 2<sup>nd</sup> stage  
Need NRCS evaluation.  
old lagoon.

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES \_\_\_\_ NO



**A. Site inventory**



LANDOWNER: \_\_\_\_\_

OPERATOR: FRANK SYBRANDY *8-10*

AGID: **5714** FARM NAME: CLAM BAR DAIRY

LAGOON ID: 5714-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 661-4504 Cell: \_\_\_\_\_

FARM ADDRESS: 21466 WYLE ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/22/2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: *Dirk M* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/22/2012

Weather: cloudy

Temperature: 38

Soil surface: moist, dry, wet, saturated, standing water, frozen, snow covered

AGID: 5714

FARM NAME: CLAM BAR DAIRY

LAGOON ID: 5714-1

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			/
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 5714

FARM NAME: CLAM BAR DAIRY

LAGOON ID: 5714-1

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?			/
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 5714-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	10	
9. Maximum Excavation Depth	0	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5714

FARM NAME: **CLAM BAR DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: FRANK SYBRANDY

AGID: **5714** FARM NAME: CLAM BAR DAIRY

LAGOON ID: 5714-2 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 661-4504 Cell: \_\_\_\_\_

FARM ADDRESS: 21466 WYLE ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/22/2012

MANURE/ EFFLUENT LEVEL: 35 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: DIRK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/22/2012

Weather: Cloudy

Temperature: 38

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 5714

FARM NAME: CLAM BAR DAIRY

LAGOON ID: 5714-2

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?		X	
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

NW bank lower

AGID: 5714

FARM NAME: CLAM BAR DAIRY

LAGOON ID: 5714-2

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	/	X	
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 5714-2

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width		
8. Embankment - Maximum Fill Height	varies	
9. Maximum Excavation Depth	5	
10. Total POND Depth	8	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		< 50'

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➔ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5714

FARM NAME: **CLAM BAR DAIRY**

**Notes, drawings etc**

Shohomish

DATE 4-23-12 STAFF **CM** FAC. SITE KEY **3569086** STATUS **Active**

FARM NAME **CLIFFHAVEN JERSEY FARM** AG ID **8469**

FARM ADDRESS **4711 Norman Road near Stanwood**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **8469-1**

800 FT River

LONGITUDE **-122.29737** LATITUDE **48.21140**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS 1 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **COMMENTS** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		↑	
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

*Cliff  
Hamm*

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	240	
3. Footprint - inside top - WIDTH	240	
4. Embankment - Inside SS	3:2	> 2H:1V
5. Embankment - Outside SS	Fill	> 2H:1V
6. Embankment - Top Width	wt	
7. Embankment - Maximum Fill Height	8.5ft	
8. Maximum Excavation Depth	?	
9. Total POND Depth	?	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	PVC center west	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

*grass*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

*gfs NRCS*



**A. Site inventory**

LANDOWNER: JEFF RAINEY

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-1 Lat: 48.72565 Long: -122.20324

Telephone Cell 0 Work 360595-2410

FARM ADDRESS: 2304 VALLEY HIGHWAY, DEMING

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-1 Lat: 48.72565 Long: -122.20324

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
? 2. Pond was constructed <u>without</u> a liner?			
? 3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-1 Lat: 48.72565 Long: -122.20324

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		✓	
9. Waste storage pond access fenced and properly marked?	✓		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?			✓
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	✓		
15. Downwind odor from WSP is	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-1 Lat: 48.72565 Long: -122.20324

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>40</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>99 steps</i>	<i>242'</i>	
3. Footprint - inside top - WIDTH <i>46 steps</i>	<i>115'</i>	
4. Embankment - Inside SS	<i>unknown - full</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/3</i>	> 2H:1V
6. Embankment - Top Width	<i>12'</i>	
7. Embankment - Maximum Fill Height	<i>8'</i>	
8. Maximum Excavation Depth	<i>3'</i>	
9. Total POND Depth	<i>11'</i>	
10. Liner type or soil amendment condition	<i>clay-good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: JEFF RAINEY

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

✓ ✓  
**A. Site inventory**

LANDOWNER: **JEFF RAINEY**

AGID: **9707** FARM NAME: **COLDSTREAM FARMS DAIRY #1**

LAGOON ID **9707-2** Lat: **48.72565** Long: **-122.20324**

Telephone Cell **0** Work **360595-2410**

FARM ADDRESS: 2304 VALLEY HIGHWAY, DEMING

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-2 Lat: 48.72565 Long: -122.20324

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without a liner</u> ?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-2 Lat: 48.72565 Long: -122.20324

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-2 Lat: 48.72565 Long: -122.20324

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1991

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>39</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>63 steps</i>	<i>157'</i>	
3. Footprint - inside top - WIDTH <i>62 steps</i>	<i>155'</i>	
4. Embankment - Inside SS	<i>Unknown</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/4</i>	> 2H:1V
6. Embankment - Top Width	<i>12'</i>	
7. Embankment - Maximum Fill Height	<i>3'</i>	
8. Maximum Excavation Depth	<i>7'</i>	
9. Total POND Depth	<i>10'</i>	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: JEFF RAINEY

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: **JEFF RAINEY**

AGID: **9707** FARM NAME: **COLDSTREAM FARMS DAIRY #1**

LAGOON ID **9707-3** Lat: **48.72565** Long: **-122.20324**

Telephone Cell **0** Work **360595-2410**

FARM ADDRESS: 2304 VALLEY HIGHWAY, DEMING

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation:      FT.

Completed by: Don Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-3 Lat: 48.72565 Long: -122.20324

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without a liner</u> ?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-3 Lat: 48.72565 Long: -122.20324

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

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AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

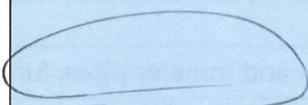
LAGOON ID 9707-3 Lat: 48.72565 Long: -122.20324

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1997

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>42</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>105 steps</i>	<i>262'</i>	
3. Footprint - inside top - WIDTH <i>62 steps</i>	<i>155'</i>	
4. Embankment - Inside SS	<i>unknown</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/4</i>	> 2H:1V
6. Embankment - Top Width	<i>8'</i>	
7. Embankment - Maximum Fill Height	<i>3'</i>	
8. Maximum Excavation Depth	<i>7'</i>	
9. Total POND Depth	<i>10</i>	
10. Liner type or soil amendment condition	<i>Clay - good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: JEFF RAINEY

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

**A. Site inventory**

LANDOWNER: **JEFF RAINEY**

AGID: **9707** FARM NAME: **COLDSTREAM FARMS DAIRY #1**

LAGOON ID **9707-4** Lat: **48.697181** Long: **-122.182515**

Telephone Cell **0** Work **360595-2410**

FARM ADDRESS: **2304 VALLEY HIGHWAY, DEMING**

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-4 Lat: 48.697181 Long: -122.182515

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

LAGOON ID 9707-4 Lat: 48.697181 Long: -122.182515

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

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AGID: 9707 FARM NAME: COLDSTREAM FARMS DAIRY #1

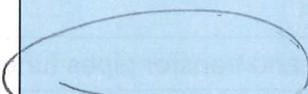
LAGOON ID 9707-4 Lat: 48.697181 Long: -122.182515

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 2011

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>41</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>135 steps</i>	<i>337</i>	
3. Footprint - inside top - WIDTH <i>64 steps</i>	<i>160</i>	
4. Embankment - Inside SS	<i>unknown - full</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/4</i>	> 2H:1V
6. Embankment - Top Width	<i>12'</i>	
7. Embankment - Maximum Fill Height	<i>10'</i>	
8. Maximum Excavation Depth	<i>0</i>	
9. Total POND Depth	<i>10'</i>	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: JEFF RAINEY

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

✓ A. Site inventory

OK LANDOWNER: JEFF RAINEY

AGID: 2175 FARM NAME: COLDSTREAM FARMS DAIRY #2

LAGOON ID 2175-1 Lat: 48.78745 Long: -122.20551

Telephone Cell 0 Work 360595-2410

FARM ADDRESS: 5225 POTTER ROAD, DEMING

REVIEW INVENTORY DATE: 3/8/12

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:

WSP is FULL (Typically late winter or early spring)

DATE: 3/8/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 2175 FARM NAME: COLDSTREAM FARMS DAIRY #2

LAGOON ID 2175-1 Lat: 48.78745 Long: -122.20551

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without a liner</u> ?			
3. Circle liner type or NA: <u>Compacted Clay</u>   Flexible Membrane   Bentonite Amendment   Other   NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Premiter missing

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AGID: 2175 FARM NAME: COLDSTREAM FARMS DAIRY #2

LAGOON ID 2175-1 Lat: 48.78745 Long: -122.20551

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

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AGID: 2175 FARM NAME: COLDSTREAM FARMS DAIRY #2

LAGOON ID 2175-1 Lat: 48.78745 Long: -122.20551

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>38</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>57 steps 142'</u>		
3. Footprint - inside top - WIDTH <u>66 steps 165'</u>		
4. Embankment - Inside SS	<u>1/2</u>	> 2H:1V
5. Embankment - Outside SS	<u>1/3</u>	> 2H:1V
6. Embankment - Top Width	<u>10'</u>	
7. Embankment - Maximum Fill Height	<u>10'</u>	
8. Maximum Excavation Depth	<u>0</u>	
9. Total POND Depth	<u>10'</u>	
10. Liner type or soil amendment condition	<u>clay - good</u>	
11. Inlet type location and condition	<u>good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

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\_\_\_\_\_

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\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES    X NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: JEFF RAINEY

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: MICHAEL SCHONEVELD

AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID 9990-1 Lat: 48.92552<sup>90</sup> Long: -122.5227<sup>4307</sup>

Telephone Cell 3604108998 Work 360354-8998

FARM ADDRESS: 771 PARKLYN WAY, FERNDALE

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 70 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: *Prest* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



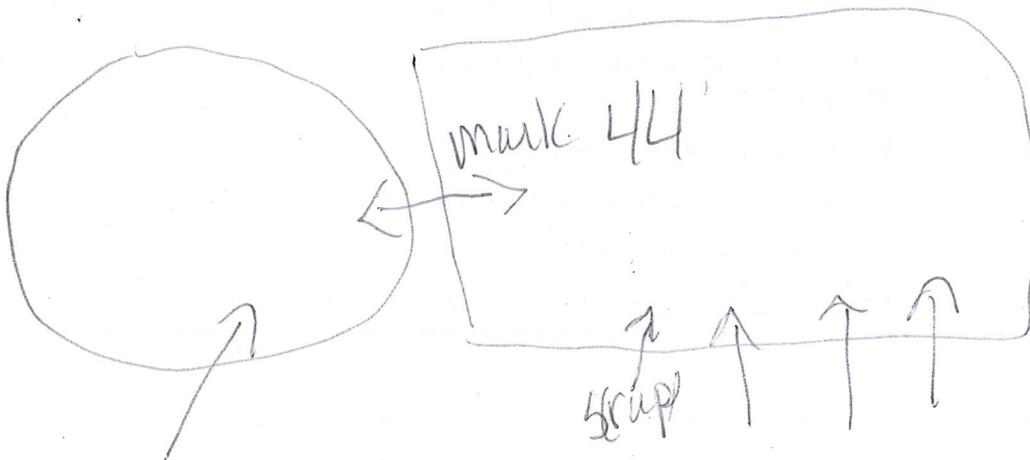
WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_



AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID 9990-1 Lat: 48.92552 Long: -122.5227

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?		?	
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID 9990-1 Lat: 48.92552 Long: -122.5227

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			✓
a. Is liquid level marker visible?			✓
b. Is storage capacity available for freeboard when pond is full?			✓
2. Are manure pump and transfer pipes functioning?			✓
3. Are recycling pumps and transfer pipes functioning?			✓
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?			✓
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	ftl
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	ftl
11. Solids managed to prevent plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	ftl
13. Actively bubbling?	✓		
14. Inlet pipes submerged?		✓	ftl
15. Downwind odor from WSP is:	None	✓ Faint	Distinct
	Strong	Unbearable	

COMMENTS:


AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID 9990-1 Lat: 48.92552 Long: -122.5227

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>136</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180	
3. Footprint - inside top - WIDTH	150 <i>oblong</i>	
4. Embankment - Inside SS	—	> 2H:1V
5. Embankment - Outside SS	> 2:1	> 2H:1V
6. Embankment – Top Width	12	
7. Embankment – Maximum Fill Height	15	
8. Maximum Excavation Depth	15	
9. Total POND Depth	15	
10. Liner type or soil amendment condition	?	
11. Inlet type location and condition	Scrap	
12. Outlet ramp condition	grass good	
13. Pump/agitation site condition	grass good	

COMMENTS:

*Gravity between 1+2*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: MICHAEL SCHONEVELD

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

NOTE: HAD 1 & 2 mixed up  
comment in Database are correct.

**A. Site inventory**

C ✓

LANDOWNER: \_\_\_\_\_

OPERATOR: MICHAEL SCHONEVELD

AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

12-2 pm

LAGOON ID: 9990-1 Lat: 48.925520 Long: -122.522700

48.92563 -122.524798

Phones: (360) 354-8998 Cell: (360) 410-8998

FARM ADDRESS: 771 PARKLYN WAY FERNDALE WA 98248

REVIEW INVENTORY DATE: 9/10/2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 7 FT.

Completed by: Disk M. Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/10/2012

Weather: sunny

Temperature: 64/80

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?	X	X	
a. Due to wave action?	X	X	
b. In vicinity of waste inlet structure?	X	X	
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			X
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			X

COMMENTS:

3C SW: BB / Police Helmet.  
Alder on toe

AGID: 9990

FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID: 9990-1

Lat: 48.925519999999999 Long: -122.5227

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?			X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID: 9990-1 Lat: 48.925520 Long: -122.522700

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1000000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180	
4. Footprint - inside top - WIDTH	150	
5. Embankment - Inside SS	0	> 2H:1V
6. Embankment - Outside SS	2:1	> 2H:1V
7. Embankment - Top Width	12	
8. Embankment - Maximum Fill Height	14	
9. Maximum Excavation Depth	14	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

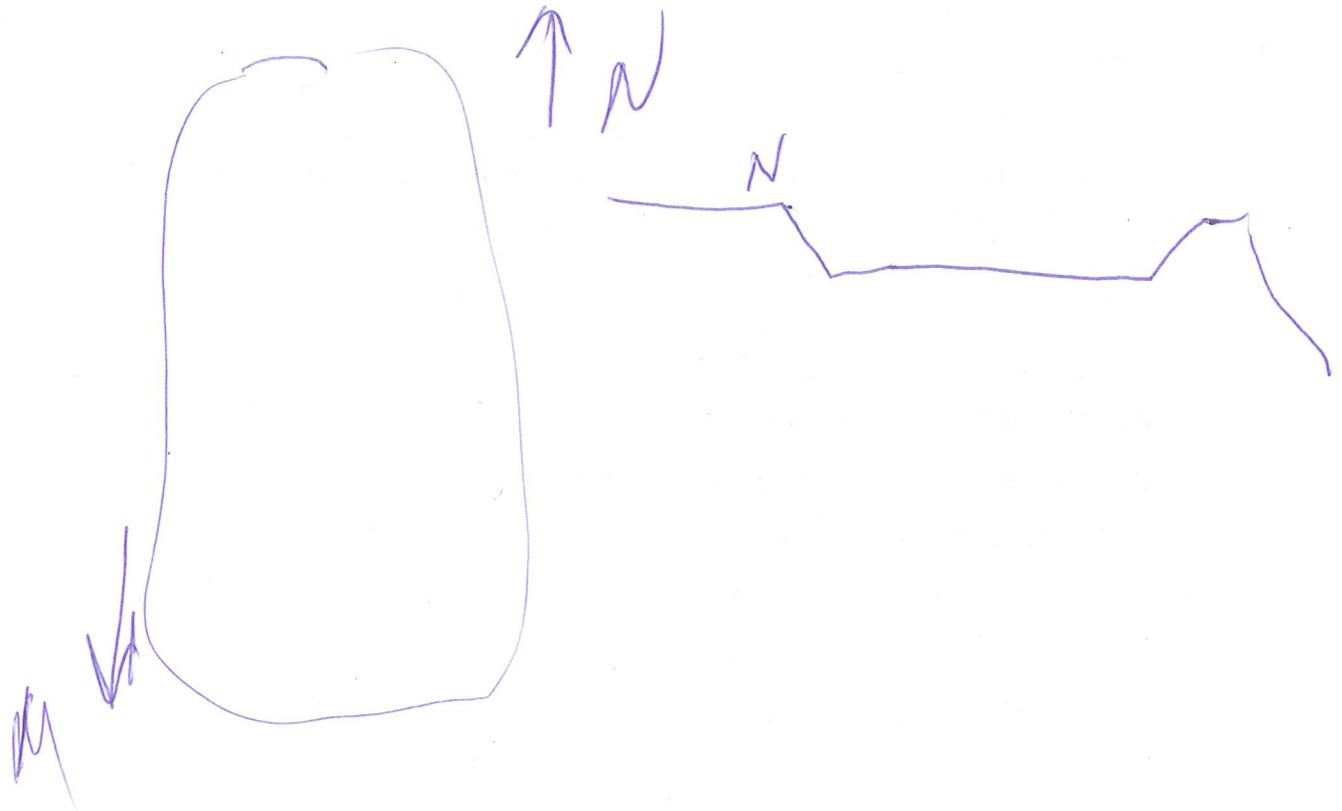
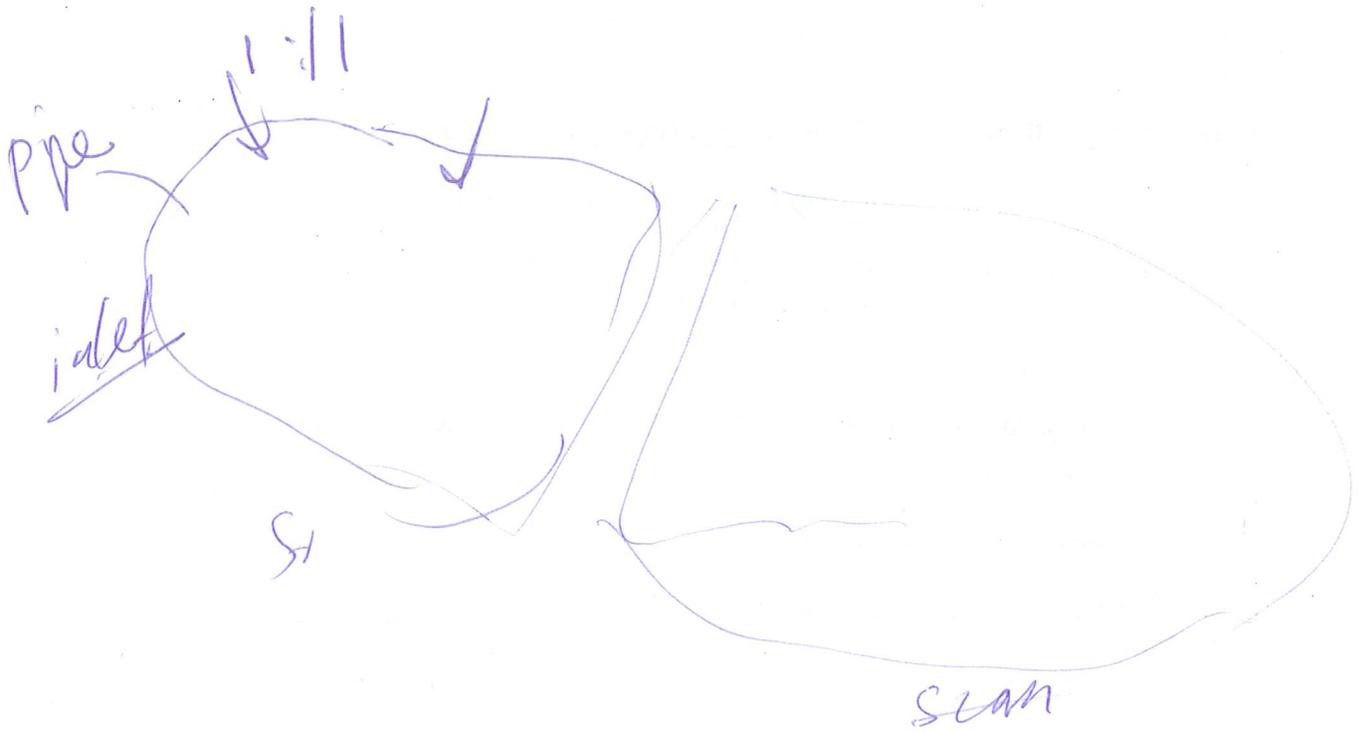
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc





1:80

**A. Site inventory**

LANDOWNER: **MICHAEL SCHONEVELD**

AGID: **9990** FARM NAME: **COUNTRYSIDE DAIRY**

LAGOON ID **9990-2** Lat: **48.92552** Long: **-122.5227**

Telephone Cell **3604108998** Work **360354-8998**

FARM ADDRESS: 771 PARKLYN WAY, FERNDALE

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: Prest Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID 9990-2 Lat: 48.92552 Long: -122.5227

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?		?	
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID 9990-2 Lat: 48.92552 Long: -122.5227

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			✓
3. Are recycling pumps and transfer pipes functioning?	✓		✓
4. Is pond overflow pipe/structure clear and unobstructed?	✓		for over
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?			✓
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?			✓
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			✓
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?			✓
13. Actively bubbling?	✓		
14. Inlet pipes submerged?			✓
15. Downwind odor from WSP is:	None	✓ Faint	Distinct Strong Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

N Pond

LAGOON ID 9990-2 Lat: 48.92552 Long: -122.5227

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>135</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	450	
3. Footprint - inside top - WIDTH	150	
4. Embankment - Inside SS	> 2:1	> 2H:1V
5. Embankment - Outside SS	> 2:1	> 2H:1V
6. Embankment - Top Width	> 12	
7. Embankment - Maximum Fill Height	15 on West Side	
8. Maximum Excavation Depth	15	
9. Total POND Depth	15	
10. Liner type or soil amendment condition		
11. Inlet type location and condition	Scrape good	
12. Outlet ramp condition	none	
13. Pump/agitation site condition	grass good	

COMMENTS: Gravity flow to & from small pond ?

40 years - NRCS

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: MICHAEL SCHONEVELD

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: MICHAEL SCHONEVELD

AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

12 - 2 pm

LAGOON ID: 9990-2 Lat: 48.925520 Long: -122.522700

(N)

48.925580

-122.312679

Phones: (360) 354-8998 Cell: (360) 410-8998

FARM ADDRESS: 771 PARKLYN WAY FERNDALE WA 98248

REVIEW INVENTORY DATE: 9/10/2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/10/2012

Weather: Sunny

Temperature: 59

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
b. In vicinity of waste inlet structure?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Due to erosion from rainfall?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			<input checked="" type="checkbox"/>
b. Damaged material (holes, tears, seams)?			<input checked="" type="checkbox"/>
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			<input checked="" type="checkbox"/>
3. Signs of embankment damage?			
a. Due to burrowing animals?		<input checked="" type="checkbox"/>	
b. Presence of trees or woody vegetation?	<input checked="" type="checkbox"/>		
c. Presence of large weeds?	<input checked="" type="checkbox"/>		
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?		<input checked="" type="checkbox"/>	
f. Evidence of cracks in embankment soils?		<input checked="" type="checkbox"/>	
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?		<input checked="" type="checkbox"/>	
i. Seepage around pipes thru berm?		<input checked="" type="checkbox"/>	

COMMENTS:

sb SE some shrub / dense BB

AGID: 9990

FARM NAME: COUNTRYSIDE DAIRY

LAGOON ID: 9990-2

Lat: 48.925520

Long: -122.522700

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?	X		X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

B. LAGOON ID: 9990-2 Lat: 48.925520 Long: -122.522700

C. Summarize review for structural data evaluation

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2000000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	450	
4. Footprint - inside top - WIDTH	150	
5. Embankment - Inside SS	1:1	> 2H:1V
6. Embankment - Outside SS	< 2:1	> 2H:1V
7. Embankment - Top Width	14	
8. Embankment - Maximum Fill Height	14	
9. Maximum Excavation Depth	14	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	OL	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		N
18. Distance to nearest home/dwelling		800
19. Distance to nearest water course		

COMMENTS:

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AGID: 9990 FARM NAME: COUNTRYSIDE DAIRY

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**D. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

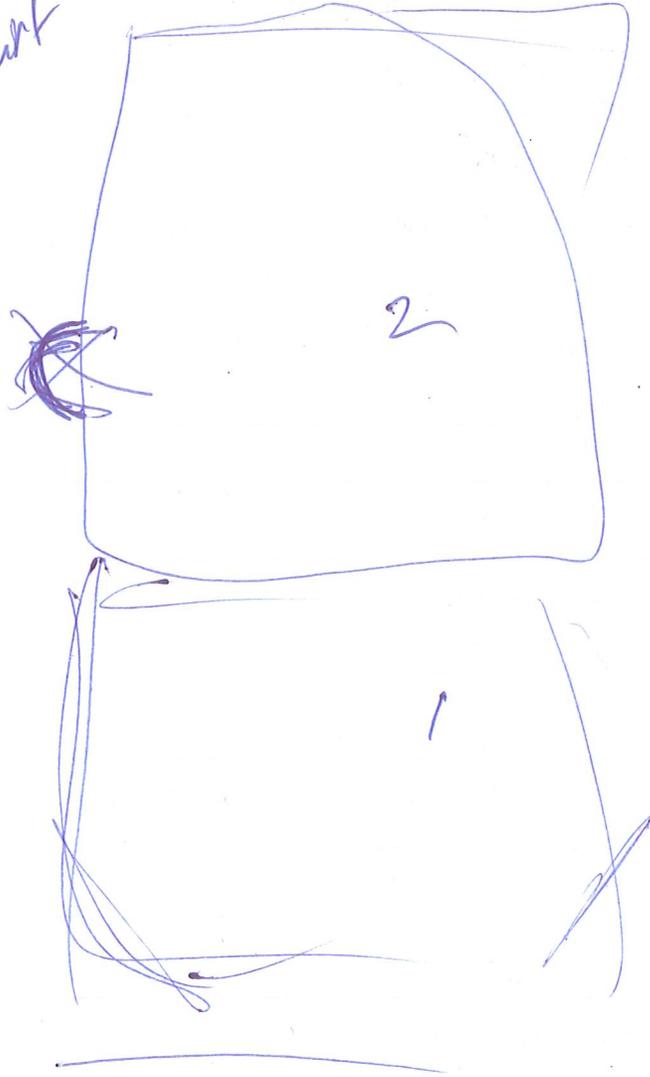
(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

half circle  
of organic dirt



**A. Site inventory**

LANDOWNER: **JAMES A CRANDALL**

AGID: **9868** FARM NAME: **CRANDALL FARMS DAIRY**

LAGOON ID **9868-1** Lat: **48.81942** Long: **-122.41359**

Telephone Cell **0** Work **360398-0424**

FARM ADDRESS: **1434 E KELLY ROAD, BELLINGHAM**

REVIEW INVENTORY DATE: 3/16/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/16/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Friday  
9:00



AGID: 9868 FARM NAME: CRANDALL FARMS DAIRY

LAGOON ID 9868-1 Lat: 48.81942 Long: -122.41359

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?		<input checked="" type="checkbox"/>	
b. Presence of trees or woody vegetation?	<input checked="" type="checkbox"/>		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

*Black berries*

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AGID: 9868 FARM NAME: CRANDALL FARMS DAIRY

LAGOON ID 9868-1 Lat: 48.81942 Long: -122.41359

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		✓	
9. Waste storage pond access fenced and properly marked?	✓		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?			✓
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	✓		✓
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9868 FARM NAME: CRANDALL FARMS DAIRY

LAGOON ID 9868-1 Lat: 48.81942 Long: -122.41359

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1988-89

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>3</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH 35 steps	87'	
3. Footprint - inside top - WIDTH 38 steps	95'	
4. Embankment - Inside SS	Full	> 2H:1V
5. Embankment - Outside SS	ground level	> 2H:1V
6. Embankment - Top Width	ground level	
7. Embankment - Maximum Fill Height	0	
8. Maximum Excavation Depth	10'	
9. Total POND Depth	10'	
10. Liner type or soil amendment condition	Clay - good	
11. Inlet type location and condition	concrete - good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES      V   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: JAMES A CRANDALL

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

**A. Site inventory**



LANDOWNER: \_\_\_\_\_

OPERATOR: JAMES A CRANDALL *2-4*

AGID: 9868 FARM NAME: CRANDALL FARMS DAIRY

LAGOON ID: 9868-1 Lat: 48.819420 Long: -122.413590

Phones: (360) 398-0424 Cell: \_\_\_\_\_

FARM ADDRESS: 1434 E KELLY ROAD BELLINGHAM WA 98226

REVIEW INVENTORY DATE: 9/12/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: *D. McNeill* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/12/2012

Weather: Sunny  
60

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?	e		
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 9868

FARM NAME: CRANDALL FARMS DAIRY

LAGOON ID: 9868-1

Lat: 48.819420

Long: -122.413590

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?	✓	X	
b. Is storage capacity available for freeboard when pond is full?		C	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<		
9. Waste storage pond access fenced and properly marked?	∠		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9868 FARM NAME: CRANDALL FARMS DAIRY

LAGOON ID: 9868-1 Lat: 48.819420 Long: -122.413590

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	100	
4. Footprint - inside top - WIDTH	100	
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	NA	> 2H:1V
7. Embankment - Top Width	-	
8. Embankment - Maximum Fill Height	-	
9. Maximum Excavation Depth	12	
10. Total POND Depth	12	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 9868 FARM NAME: GRANDALL FARMS DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9868

FARM NAME: RANDALL FARMS DAIRY

**Notes, drawings etc**

10:00 ✓

✓



Shohemish

DATE 4/30/12 STAFF DM FAC. SITE KEY 8290771 STATUS Active

FARM NAME DETLING DAIRY FARM LP AG ID 9860

FARM ADDRESS 30012 Old Pacific Highway near Stanwood

FARM CONTACT Karen Williams - 360-629-3641

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP 2 THIS LAGOON ID 9860-1

LONGITUDE -122.367<sup>980</sup>~~769999999~~

LATITUDE 48.2<sup>7048</sup>~~6942~~

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 6' FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?	✓		
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?		✓	
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	89 ft x 210'	
3. Footprint - inside top - WIDTH	60 ft x 150'	
4. Embankment - Inside SS	1/2	> 2H:1V
5. Embankment - Outside SS	1/4	> 2H:1V
6. Embankment - Top Width	12'	
7. Embankment - Maximum Fill Height	8'	
8. Maximum Excavation Depth	6'	
9. Total POND Depth	14'	
10. Liner type or soil amendment condition	clay - good	
11. Inlet type location and condition	pipe - good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO





DATE 4/30/12 STAFF DM FAC. SITE KEY 8290771 STATUS Active

FARM NAME DETLING DAIRY FARM LP AG ID 9860

FARM ADDRESS 30012 Old Pacific Highway near Stanwood

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP 2 THIS LAGOON ID 9860-2

LONGITUDE -122.36276099999999 <sup>903</sup> LATITUDE 48.26942 <sup>7127</sup>

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS \_\_\_\_\_ FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>79 steps</i>	<i>197'</i>	
3. Footprint - inside top - WIDTH <i>58 steps</i>	<i>145'</i>	
4. Embankment - Inside SS	<i>1/3</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/4</i>	> 2H:1V
6. Embankment – Top Width	<i>12'</i>	
7. Embankment – Maximum Fill Height	<i>10'</i>	
8. Maximum Excavation Depth	<i>0'</i>	
9. Total POND Depth	<i>10'</i>	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>pipe - good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO



DATE 11-21-11 STAFF **CM** FAC. SITE KEY **0** STATUS **Active**

FARM NAME **DE VRIES DAIRY LP** AG ID **9704**

FARM ADDRESS **12797 Thillberg Road near Mount Vernon**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **2** THIS LAGOON ID **9704-1**

LONGITUDE **-122.29438** LATITUDE **48.46000**

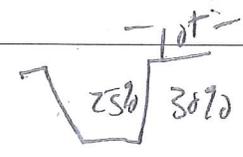
WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 11 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

✓ ✓ Skagit  
 LW 251X243  
 4.2 MG  
 Lang



EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner? <u>NECS 1995</u>	✓		
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?	✓	<del>✓</del>	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: FRED DEVRIES

AGID: **9704** FARM NAME: DE VRIES DAIRY LP

LAGOON ID: 9704-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 424-9632 Cell: (360) 661-7135

FARM ADDRESS: 12797 THILLBERG ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/23/2012

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: BIRK M Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

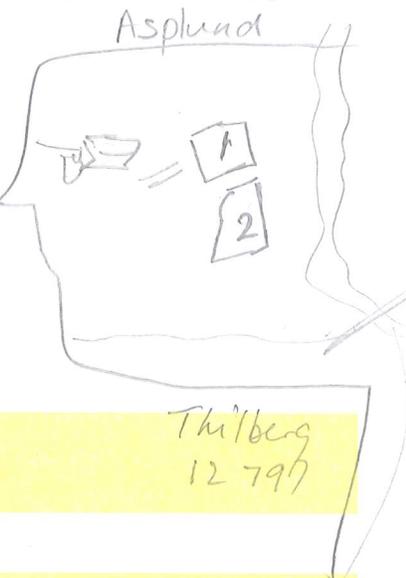
WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/23/2012

Weather: overcast

Temperature: 48

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



*manure pipe crossing Nooke chapt creek*

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 9704

FARM NAME: DE VRIES DAIRY LP

LAGOON ID: 9704-1

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	X		/
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	Y		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

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LAGOON ID: 9704-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	14	
8. Embankment – Maximum Fill Height	16	
9. Maximum Excavation Depth	0	
10. Total POND Depth	16	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9704

FARM NAME: **DE VRIES DAIRY LP**

**Notes, drawings etc**

Stabit

**A. Site inventory**

LANDOWNER: **FRED DEVRIES**

AGID: **9704** FARM NAME: **DE VRIES DAIRY LP**

LAGOON ID **9704-1** Lat: **48.46** Long: **-122.29438**

Telephone Cell Work

FARM ADDRESS: 12797 THILLBERG ROAD, MOUNT VERNON

REVIEW INVENTORY DATE: 4-30-12

MANURE/ EFFLUENT LEVEL 25 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 9 FT FT.

Completed by: CM Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

100 FT  
Nookachamps  
CK

AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-1 Lat: 48.46 Long: -122.29438

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?		✓	
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?		✓	✓
b. Damaged material (holes, tears, seams)?		✓	✓
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	✓
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-1 Lat: 48.46 Long: -122.29438

OPERATION AND MAINTENANCE					
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section					
SITE INVENTORY QUESTION	YES	NO	NA		
1. Is there a permanent liquid level marker available to measure depth of pond?		✓			
a. Is liquid level marker visible?		✓			
b. Is storage capacity available for freeboard when pond is full?	✓				
2. Are manure pump and transfer pipes functioning?	✓				
3. Are recycling pumps and transfer pipes functioning?	✓				
4. Is pond overflow pipe/structure clear and unobstructed?	✓				
<b>CLEAN WATER DIVERSION</b>					
5. Perimeter drains plugged or blocked?			✓		
6. All roof water or clean runoff is diverted from storage?	✓				
7. Diversions/waterways maintained?	✓				
<b>VISUAL APPEARANCE AND SAFETY</b>					
8. Site neat and recently mowed?	✓				
9. Waste storage pond access fenced and properly marked?	✓				
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>					
10. Crust of solids on lagoon?		✓			
11. Solids managed to <u>prevent</u> plants growing on crust?	✓				
12. Anaerobic lagoon is purple/pink?		✓			
13. Actively bubbling?	✓				
14. Inlet pipes submerged?		✓			
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable

COMMENTS:

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\_\_\_\_\_

\_\_\_\_\_

AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-1 Lat: 48.46 Long: -122.29438

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>11</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
3. Footprint - inside top - WIDTH		
4. Embankment - Inside SS		> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment – Top Width		
7. Embankment – Maximum Fill Height		
8. Maximum Excavation Depth		
9. Total POND Depth		
10. Liner type or soil amendment condition		
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: FRED DEVRIES

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 9-30-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	25% 9 FT	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	190	Not Square
3. Footprint - inside top - WIDTH	110	
4. Embankment - Inside SS	3.2	> 2H:1V
5. Embankment - Outside SS	3.2	> 2H:1V
6. Embankment - Top Width	10+	
7. Embankment - Maximum Fill Height	4	
8. Maximum Excavation Depth	5	
9. Total POND Depth	19	
10. Liner type or soil amendment condition	clay	
11. Inlet type location and condition	uv pvc above top	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

NRCS 45.

Devices #1

5.4  
360  
420  
7516



DATE 11-21-11 STAFF **CM** FAC. SITE KEY **0** STATUS **Active**

Skagit #2 3.4 MF

FARM NAME **DE VRIES DAIRY LP** AG ID **9704**

FARM ADDRESS **12797 Thillberg Road near Mount Vernon**

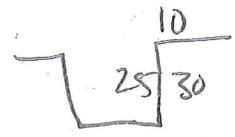
FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **2** THIS LAGOON ID **9704-2**

LONGITUDE **-122.29438**

LATITUDE **48.46000**



WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

NRCS 2'004

PICTURES TAKEN

TODAY LIQUID LEVEL IS 15 FT FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?		✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	



skagit



**A. Site inventory**

LANDOWNER: FRED DEVRIES

AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-2 Lat: 48.46 Long: -122.29438

Telephone Cell Work

FARM ADDRESS: 12797 THILLBERG ROAD, MOUNT VERNON

REVIEW INVENTORY DATE: 4-30-12

MANURE/ EFFLUENT LEVEL: 80-75% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT FT.

Completed by: CM Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)  
DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall,  
depending on operation management)  
DATE: \_\_\_\_\_

100 Ft Nodachamps Creek

AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-2 Lat: 48.46 Long: -122.29438

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?		✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-2 Lat: 48.46 Long: -122.29438

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?		✓	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct
	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

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\_\_\_\_\_

AGID: 9704 FARM NAME: DE VRIES DAIRY LP

LAGOON ID 9704-2 Lat: 48.46 Long: -122.29438

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>12</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
3. Footprint - inside top - WIDTH		
4. Embankment - Inside SS		> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment – Top Width		
7. Embankment – Maximum Fill Height		
8. Maximum Excavation Depth		
9. Total POND Depth		
10. Liner type or soil amendment condition		
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: FRED DEVRIES

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

Review  
H2

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 4-30-18

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	80% 3 FT FB	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	255	
3. Footprint - inside top - WIDTH	240	
4. Embankment - Inside SS	Full	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	10 ft	
7. Embankment - Maximum Fill Height	14	
8. Maximum Excavation Depth	0	
9. Total POND Depth	14	
10. Liner type or soil amendment condition	Clay	
11. Inlet type location and condition	over pipe	West
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES \_\_\_\_\_ NO

NRCS 2018



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: FRED DEVRIES

AGID: **9704** FARM NAME: DE VRIES DAIRY LP *11:30-1:30*

LAGOON ID: 9704-2 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 424-9632 Cell: (360) 661-7135

FARM ADDRESS: 12797 THILLBERG ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/23/2012

MANURE/ EFFLUENT LEVEL: 40 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: *Dick H* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/23/2012

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 9704

FARM NAME: DE VRIES DAIRY LP

LAGOON ID: 9704-2

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

3b s ~~sw~~ : <sup>small</sup> Trees, BB's

Large trees E toe

AGID: 9704

FARM NAME: DE VRIES DAIRY LP

LAGOON ID: 9704-2

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			/
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 9704-2

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	14	
8. Embankment – Maximum Fill Height	10	
9. Maximum Excavation Depth	0	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9704

FARM NAME: **DE VRIES DAIRY LP**

**Notes, drawings etc**

A. Site inventory

KRISTI



\* Due 1-8-12

LANDOWNER: DRUE DICKENSON

AGID: 2096 FARM NAME: DICKINSON FARMS DAIRY

LAGOON ID 2096-1 Lat: 48.9152<sup>623</sup> Long: -122.5075<sup>821</sup>

Telephone Cell 0 Work 360 3188767

-EMAIL

FARM ADDRESS: 516 RIVER ROAD, LYNDEN

REVIEW INVENTORY DATE: 5/14/2012

MANURE/ EFFLUENT LEVEL: 10% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: MICHAEL Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:



WSP is FULL (Typically late winter or early spring)

DATE: [redacted]



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 5/14/2012  
PUMPEO 4/30/2012

5/14/2012

1 Lagoon  
775K gallons

AGID: 2096 FARM NAME: DICKINSON FARMS DAIRY

LAGOON ID 2096-1 Lat: 48.91524 Long: -122.50752

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>without</u> a liner?		X	
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
4. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

2 NOT KNOWN  
 VERY EXTENSIVE TALL GRASS - SUBSTANTIAL BLACKBERRY GROWTH

AGID: 2096 FARM NAME: DICKINSON FARMS DAIRY

LAGOON ID 2096-1 Lat: 48.91524 Long: -122.50752

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?		X	
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

1b. Flows BACK INTO DAIRY BARN AREA OVER RAMPS <sup>SCRAPE</sup>

AGID: 2096 FARM NAME: DICKINSON FARMS DAIRY

LAGOON ID 2096-1 Lat: 48.91524 Long: -122.50752

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>251</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	775,000 +	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	220 NS	
3. Footprint - inside top - WIDTH	130 EW	
4. Embankment - Inside SS	2:1	> 2H:1V
5. Embankment - Outside SS	3:1	> 2H:1V
6. Embankment - Top Width	8	
7. Embankment - Maximum Fill Height	6	
8. Maximum Excavation Depth	2	
9. Total POND Depth	8	
10. Liner type or soil amendment condition	? WKE	
11. Inlet type location and condition	GOOD - CONCRETE	
12. Outlet ramp condition	NS	
13. Pump/agitation site condition	GOOD	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES        X   NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: DRUE DICKENSON

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

MICHAEL

A. Site inventory

LANDOWNER: \_\_\_\_\_

OPERATOR: DRUE DICKENSON

~~12-2~~

WIFE SAID HE WANTS TO  
BE PRESENT. AVAILABLE  
NEXT WEEK ✓

AGID: 2096

FARM NAME: DICKINSON FARMS DAIRY

LAGOON ID: 2096-1

Lat: 48.915240

Long: -122.507520

Phones:

Cell:

6224

8180

FARM ADDRESS: 516 RIVER ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE:

10/9/2012

MANURE/ EFFLUENT LEVEL:

0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation:

5 FT.

Completed by:

D. Menblol

Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:

WSP is FULL (Typically late winter or early spring)

DATE:

\_\_\_\_\_

WSP is near empty (Typically late summer or early fall,  
depending on operation management)

DATE:

10/9/2012

Weather:

over cast

Temperature:

53

Soil surface:

dry

moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		C	

COMMENTS:

3b E side Tree cotton wood / willow

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3c Entire W.

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?		X	
3. Are recycling pumps and transfer pipes functioning?		X	
4. Is pond overflow pipe/structure clear and unobstructed?		X	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			/
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	Strong	Unbearable	

COMMENTS:

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B. LAGOON ID: 2096-1 Lat: 48.915240 Long: -122.507520

**C. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	6	
8. Embankment – Maximum Fill Height	8	
9. Maximum Excavation Depth	0	
10. Total POND Depth	8	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**D. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



R 6-30 ✓   
DATE \_\_\_\_\_ STAFF **CM** FAC. SITE KEY **1159549** STATUS **Active**

FARM NAME **DON VAN HOOFF DAIRY** AG ID **4719**

FARM ADDRESS **40020 SE 228th Way near Enumclaw**

FARM CONTACT **360-825-2322**

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **4719-1**

LONGITUDE **-122.04405<sup>72</sup>** LATITUDE **47.24115**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS **2** FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without a liner</u> ?			
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>72 steps</i>		
3. Footprint - inside top - WIDTH <i>70 steps</i>		
4. Embankment - Inside SS <i>Full</i>		> 2H:1V
5. Embankment - Outside SS	<i>1/3</i>	> 2H:1V
6. Embankment - Top Width	<i>12'</i>	
7. Embankment - Maximum Fill Height	<i>18'</i>	
8. Maximum Excavation Depth	<i>0</i>	
9. Total POND Depth	<i>18'</i>	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_



**A. Site inventory**

LANDOWNER: Kraig Wobast SE 400

GORDY

OPERATOR: DON VAN HOOFF

AGID: **4719** FARM NAME: DON VAN HOOFF DAIRY

LAGOON ID: 4719-1

Lat:

Long:

Phones: (360) 825-2322

Cell:

FARM ADDRESS: 40020 SE 228TH WAY ENUMCLAW WA 98022

REVIEW INVENTORY DATE: 10/16/2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: [Signature] Agency **DNMP/WSDA**

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



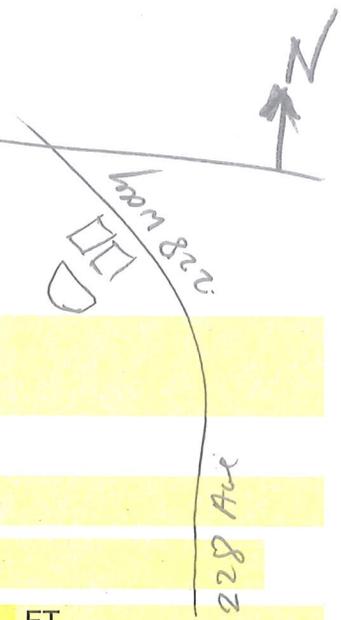
WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/16/2012

Weather: 50% Overcast

Temperature: 57

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:



AGID: 4719

FARM NAME: DON VAN HOOFF DAIRY

LAGOON ID: 4719-1Lat:

Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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LAGOON ID: 4719-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA: <i>Gar dy</i>	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	<i>&gt; 2:1</i>	> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment - Top Width	<i>&gt; 3:1</i>	
8. Embankment - Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

\_\_\_\_ YES \_\_\_\_ NO

C. Does it appear that the WSP been structurally modified?

\_\_\_\_ YES \_\_\_\_ NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4719

FARM NAME: DON VAN HOOF DAIRY

**Notes, drawings etc**

Tues 9:00 ✓



skabit

DATE 5/1/12 STAFF **CM** FAC. SITE KEY **1488173** STATUS **Active**

FARM NAME **DOUG REX DAIRY** AG ID **4794**

FARM ADDRESS **13141 Avon-Allen Road near Mount Vernon**

FARM CONTACT 360-424-5439

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **4794-1**

LONGITUDE ~~-122.37918000000001~~ <sup>631</sup>

LATITUDE ~~48.45007~~ <sup>574</sup>

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 3 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?	✓		
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>54' x 4'</i>	135'	
3. Footprint - inside top - WIDTH <i>35' x 4'</i>	87'	
4. Embankment - Inside SS <i>Full</i>		> 2H:1V
5. Embankment - Outside SS	1/4	> 2H:1V
6. Embankment - Top Width	10'	
7. Embankment - Maximum Fill Height	8'	
8. Maximum Excavation Depth	5'	
9. Total POND Depth	13'	
10. Liner type or soil amendment condition	clay - good	
11. Inlet type location and condition	good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_





**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: DOUGLAS REX

AGID: **4794** FARM NAME: DOUG REX DAIRY 12-3

LAGOON ID: 4794-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 424-5439 Cell: \_\_\_\_\_

FARM ADDRESS: 13141 AVON-ALLEN ROAD MOUNT VERNON WA 98273

REVIEW INVENTORY DATE: 10/22/2012

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 18 FT.

Completed by: DICK H Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/22/2012

Weather: Cloudy

Temperature: 45

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?		X	
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 4794-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	8	
8. Embankment – Maximum Fill Height	5	
9. Maximum Excavation Depth	14	
10. Total POND Depth	20	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4794 FARM NAME: DOUG REX DAIRY

**Notes, drawings etc**

✓ ✓ Skagit

DATE 4-30-12 STAFF **CM** FAC. SITE KEY **7472943** STATUS **Active**

FARM NAME **DYKSTRA Farms LLC** AG ID **4374**

FARM ADDRESS **19111 Gear Road near Burlington**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **2** THIS LAGOON ID **4374-1**

LONGITUDE **-122.33212** LATITUDE **48.49367**

**10 Ft  
ditch (w)**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 12 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, <sup>90%</sup> if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without a liner?</u>		✓	
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other <u>NA</u>			
a. Erosion of liner material?			✓
b. Damaged material (holes, tears, seams)?			✓
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds? <u>Organic</u>	✓		
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	



Dykstra

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: 4-30-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	1/2 of free 90%	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	163	
3. Footprint - inside top - WIDTH	170	
4. Embankment - Inside SS	2:1	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	<del>10</del> 8	
7. Embankment - Maximum Fill Height	10	
8. Maximum Excavation Depth	2	
9. Total POND Depth	12	
10. Liner type or soil amendment condition	Compacted Clay	
11. Inlet type location and condition	10 inches below top dike	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	Good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES      \_\_\_\_ NO

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Early 90's NRCS  
after 88

01/20/20

**A. Site inventory**

*Chris*



LANDOWNER: \_\_\_\_\_

OPERATOR: ANDREW DYKSTRA

AGID: **4374** FARM NAME: DYKSTRA Farms LLC

*9-11*



LAGOON ID: 4374-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: (360) 757-6376 Cell: \_\_\_\_\_

*Gear*

FARM ADDRESS: 19111 GEAR ROAD BURLINGTON WA 98233

REVIEW INVENTORY DATE: 10/23/2012

*9-11*

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: DICK M. Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/23/2012

Weather: cloudy

Temperature: 43

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

*will pump out remainder (3' full)  
10/29 - 10/31  
and agitate*

AGID: 4374

FARM NAME: DYKSTRA Farms LLC

LAGOON ID: 4374-1

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 4374

FARM NAME: DYKSTRA Farms LLC

LAGOON ID: 4374-1

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X	X	
3. Are recycling pumps and transfer pipes functioning?	X	X	
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	✓		X
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 4374-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	170	
4. Footprint - inside top - WIDTH	160	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	2	
9. Maximum Excavation Depth	2	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4374      FARM NAME: **DYKSTRA Farms LLC**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: Delvin Crabtree + PAM

OPERATOR: CRABTREE

AGID: 9194 FARM NAME: WEST **OVH ENTERPRISES TRUST**

LAGOON ID \_\_\_\_\_ Lat: 48.96647 Long: 122.52287

Phones: 354-4811 Cell: \_\_\_\_\_

FARM ADDRESS: 8940 8954 WEIDKAMP ROAD, LYNDEN, WA 98264

REVIEW INVENTORY DATE: 7-19-12

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 7 FT.

Completed by: M Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 7-19-12

~~1 BELOW~~  
~~8 ABOVE~~

BADGER  
SPILLS

Weather: SUNNY

Temperature: 78

Soil surface: dry moist, wet, saturated, standing water, frozen, snow covered

RECEIVED

AUG 17 2012

WSDA  
DAIRY NUTRIENT MANAGEMENT

AGID: 9194

FARM NAME: CVH ENTERPRISES TRUST

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?	CLDY		
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

LAGOON ID: Lat: Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X	NO	
7. Diversions/waterways maintained?		NO	X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?		X	
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong	<input checked="" type="checkbox"/> Unbearable	

COMMENTS:

2. LINE RUNS 1350 ft FROM FACILITY ON WEIDKAMP RD TO WEST

AGID: 9194 FARM NAME: CVH ENTERPRISES TRUST

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS DATE: EARLY 90s

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	150 NS	
4. Footprint - inside top - WIDTH	175 EW	
5. Embankment - Inside SS	2.5:1	> 2H:1V
6. Embankment - Outside SS	2:5:1	> 2H:1V
7. Embankment - Top Width	15	
8. Embankment - Maximum Fill Height	8	
9. Maximum Excavation Depth	1	
10. Total POND Depth	9	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	CONG. RAMP -	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		> 200 FT
19. Distance to nearest water course		275'

COMMENTS:

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9194

FARM NAME: CVH ENTERPRISES TRUST

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: DELVIN + PAM CRABTREE

OPERATOR: CRABTREES - HORSE HAY

2-4  
BOUGHT from  
DUDICE  
89

AGID: 9194 FARM NAME: DVH ENTERPRISES

LAGOON ID 2: EAST Lat: 48.9664 Long: 122.52199

Phones: ~~354-4814~~ Cell: 354-4814

FARM ADDRESS: 8954 WEIDKAMP

REVIEW INVENTORY DATE: 7-19

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: MICHAEL J. Lee Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 7-19-12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_



Weather: SUNNY

Temperature: 78

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

NO ANIMALS  
ON SITE. BARN  
USED TO STORE  
FEED. SOLD  
TO HORSE  
FOLKS. MOM  
USE LAGOONS  
TO STORE  
DIGESTATE  
ONLY COLLECTING  
RAINWATER

RECEIVED

AUG 17 2012

WSDA  
DAIRY NUTRIENT MANAGEMENT

AGID: FARM NAME:

LAGOON ID: Lat: Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?	X		
2. Pond was constructed <u>with</u> a liner?	CSOM -		
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

MOUNDED IN CENTER

1, AS PER OPERATOR. MOUNDED IN MIDDLE STEEP SIDE SLOPES

AGID:

FARM NAME:

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?			X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	FENCE		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			X
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?			X
13. Actively bubbling?			X
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

NO MANURE - JUST RAIN WATER

AGID: FARM NAME:

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE:       ?       80's?  
 DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	95	
4. Footprint - inside top - WIDTH	95	
5. Embankment - Inside SS	1:1 or steeper	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	5	
8. Embankment - Maximum Fill Height	3	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, <u>Scrape/slab</u> , Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	STEEP	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		NONE
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

← across FENCE TO EAST

COMMENTS:

MOSTLY A PIT - SCOPE UP + OVER - NO ANIMALS  
 SOME OF INSIDE EMBANKMENT (S+E) APPEARS TO  
 BE CONCRETE.

AGID:

FARM NAME:

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID:

FARM NAME:

**Notes, drawings etc**

✓

UPM  
1:00

**A. Site inventory**

LANDOWNER: **GLEN DYKSTRA**

AGID: **9468** FARM NAME: **DYNA MOO DAIRY**

LAGOON ID **9468-1** Lat: **48.89497** Long: **-122.35299**

Telephone Cell **0** Work **360966-7025**

FARM ADDRESS: **6992 MISSION ROAD, EVERSON**

REVIEW INVENTORY DATE: 3/13/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 2/13/12

WSP is near empty (Typically late summer or early fall,  
depending on operation management)

DATE: \_\_\_\_\_

AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID 9468-1 Lat: 48.89497 Long: -122.35299

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed without a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> Flexible Membrane Bentonite Amendment Other NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?	✓		
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Black berries + rodents

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AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID 9468-1 Lat: 48.89497 Long: -122.35299

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?			✓
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	✓		
15. Downwind odor from WSP is: <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">None</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Faint</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Distinct</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Strong</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Unbearable</span>			

COMMENTS:

AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID 9468-1 Lat: 48.89497 Long: -122.35299

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>77</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>49 step</i>	122'	
3. Footprint - inside top - WIDTH <i>42 step</i>	105'	
4. Embankment - Inside SS	<i>unknown</i>	> 2H:1V
5. Embankment - Outside SS	<i>1/3</i>	> 2H:1V
6. Embankment - Top Width	12'	
7. Embankment - Maximum Fill Height	6'	
8. Maximum Excavation Depth	6'	
9. Total POND Depth	12'	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GLEN DYKSTRA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

OPERATOR: GLEN DYKSTRA

8-10

1



AGID: **9468** FARM NAME: **DYNA MOO DAIRY**

LAGOON ID: 9468-1 Lat: 48.894970 Long: -122.352990  
Phones: (360) 966-7025 Cell: 893341 348264

FARM ADDRESS: 6992 MISSION ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL 45 TO 70 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Waddy  
S on T  
to #2  
soft slab  
N

AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-1

Lat: 48.894970

Long: -122.352990

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

36 small <sup>shrub</sup> tree on T → #2

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AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-1

Lat: 48.894970

Long: -122.352990

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X	X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-1

Lat: 48.894970

Long: -122.352990

**B. Summarize review for structural data evaluation**

**Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.**

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	656000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9468

FARM NAME: DYNA MOO DAIRY

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER:

OPERATOR: GLEN DYKSTRA

8-10

AGID: **9468** FARM NAME: **DYNA MOO DAIRY**

LAGOON ID: 9468-2 Lat: 48.893060 Long: -122.347760

Phones: (360) 966-7025 Cell:

FARM ADDRESS: 6992 MISSION ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL: 45 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17/2012

Weather: Sunny

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

W | N side  
BB

AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-2

Lat: 48.893060

Long: -122.347760

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?	X	X	
b. Presence of trees or woody vegetation?	X	X	X
c. Presence of large weeds?	X	X	X
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

*W/Berm  
S/Berm*

COMMENTS:

*36c BB W & N*

*3c few more holes*

AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-2

Lat: 48.893060

Long: -122.347760

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9468

FARM NAME: DYNA MOO DAIRY

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	2 200 000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

Dam 3/13

1 Ft  
90%

Durrow  
woody

rodent 2 Blackberries

Few mole holes

✓

**A. Site inventory**

LANDOWNER: **GLEN DYKSTRA**

AGID: **9468** FARM NAME: **DYNA MOO DAIRY**

LAGOON ID **9468-3** Lat: **48.89294** Long: **-122.34697**

Telephone Cell **0** Work **360966-7025**

FARM ADDRESS: **6992 MISSION ROAD, EVERSON**

REVIEW INVENTORY DATE: 3/13/12

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 3/13/12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID 9468-3 Lat: 48.89294 Long: -122.34697

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID 9468-3 Lat: 48.89294 Long: -122.34697

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?			✓
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	✓		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID 9468-3 Lat: 48.89294 Long: -122.34697

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>78</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH 77 steps	192'	
3. Footprint - inside top - WIDTH 64 steps	160'	
4. Embankment - Inside SS	1/3	> 2H:1V
5. Embankment - Outside SS	ground level	> 2H:1V
6. Embankment - Top Width	ground level	
7. Embankment - Maximum Fill Height	0	
8. Maximum Excavation Depth	12'	
9. Total POND Depth	12'	
10. Liner type or soil amendment condition	clay - good	
11. Inlet type location and condition	good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GLEN DYKSTRA

(1) Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

**A. Site inventory**

LANDOWNER:

OPERATOR: GLEN DYKSTRA

AGID: 9468 FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-3 Lat: 48.892940 Long: -122.346970

Phones: (360) 966-7025 Cell:

FARM ADDRESS: 6992 MISSION ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL: 10% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 15 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17/2012

Weather: Sunny

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Top even of land

AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-3

Lat: 48.892940

Long: -122.346970

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			)
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 9468

FARM NAME: DYNA MOO DAIRY

LAGOON ID: 9468-3

Lat: 48.892940

Long: -122.346970

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			]
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

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AGID: 9468

FARM NAME: DYNA MOO DAIRY

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	3.2 M.	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	20' / 1:2	> 2H:1V
6. Embankment - Outside SS	—	> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height	—	
9. Maximum Excavation Depth	8	
10. Total POND Depth	8	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C: Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: **GLEN DYKSTRA**

AGID: **2245** FARM NAME: **DYNA MOO DAIRY LLC #2**

LAGOON ID **2245-1** Lat: **48.98621** Long: **-122.29316**

Telephone Cell **0** Work **360966-7025**

FARM ADDRESS: **3604 FLANNEGAN ROAD, SUMAS**

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: \_\_\_\_\_ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: \_\_\_\_\_ Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

*No in-ground lagoon @ this facility  
per Glen*

*3/13/12 @ 1:00  
Dmc*

AGID: 2245 FARM NAME: DYNA MOO DAIRY LLC #2

LAGOON ID 2245-1 Lat: 48.98621 Long: -122.29316

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 2245 FARM NAME: DYNA MOO DAIRY LLC #2

LAGOON ID 2245-1 Lat: 48.98621 Long: -122.29316

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 2245 FARM NAME: DYNA MOO DAIRY LLC #2

LAGOON ID 2245-1 Lat: 48.98621 Long: -122.29316

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>268</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
3. Footprint - inside top - WIDTH		
4. Embankment - Inside SS		> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment – Top Width		
7. Embankment – Maximum Fill Height		
8. Maximum Excavation Depth		
9. Total POND Depth		
10. Liner type or soil amendment condition		
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GLEN DYKSTRA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

OPERATOR: \_\_\_\_\_

*Note.*

*Lagoon decommissioned  
Levelled/Filled in  
now cropland  
w/ corn  
(Bing Bird's eye  
has this  
info,  
Google does  
not)*

AGID: **2245** FARM NAME: **DYNA MOO DAIRY LLC #2**

LAGOON ID: 2245-1 Lat: 48.986210 Long: -122.293160

Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 3604 FLANNEGAN ROAD SUMAS WA 98295

REVIEW INVENTORY DATE: 9/19/2012

MANURE/ EFFLUENT LEVEL: \_\_\_\_\_ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: DIRK MEURBOK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: Sunny

Temperature: 70

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

*UP RIGHT  
SLURRY  
TANK*

*DNE*

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 2245

FARM NAME: DYNA MOO DAIRY LLC #2

LAGOON ID: 2245-1

Lat: 48.986210

Long: -122.293160

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 2245

FARM NAME: DYNA MOO DAIRY LLC #2

LAGOON ID: 2245-1

Lat: 48.986210

Long: -122.293160

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - <i>or crest elevation if no spillway.</i>		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

AGID: 2245

FARM NAME: DYNA MOO DAIRY LLC #2

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 2245

FARM NAME: DYNA MOO DAIRY LLC #2

**Notes, drawings etc**



**A. Site inventory**

LANDOWNER: PETE DYKSTRA

OK

AGID: 9149 FARM NAME: <sup>Dykstra</sup> HOPEWELL FARMS DAIRY

LAGOON ID 9149-1 Lat: 48.91089 Long: -122.32208

Telephone Cell 3609617044 Work 360966-4238

FARM ADDRESS: 7433 NOOKSACK ROAD, EVERSON

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 9149 FARM NAME: HOPEWELL FARMS DAIRY

LAGOON ID 9149-1 Lat: 48.91089 Long: -122.32208

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9149 FARM NAME: HOPEWELL FARMS DAIRY

LAGOON ID 9149-1 Lat: 48.91089 Long: -122.32208

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

AGID: 9149 FARM NAME: HOPEWELL FARMS DAIRY

LAGOON ID 9149-1 Lat: 48.91089 Long: -122.32208

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>81</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>65 steps</u>	<u>165'</u>	
3. Footprint - inside top - WIDTH <u>28 steps</u>	<u>70'</u>	
4. Embankment - Inside SS	<u>1/2</u>	> 2H:1V
5. Embankment - Outside SS	<u>1/2</u>	> 2H:1V
6. Embankment - Top Width	<u>8'</u>	
7. Embankment - Maximum Fill Height	<u>4'</u>	
8. Maximum Excavation Depth	<u>unknown</u>	
9. Total POND Depth	<u>unknown</u>	
10. Liner type or soil amendment condition	<u>clay / good</u>	
11. Inlet type location and condition	<u>good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: PETE DYKSTRA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



Refused Access to EPA

2

**A. Site inventory**

OK

LANDOWNER: **ED BOSSCHER**

AGID: **74** FARM NAME: **ED BOSSCHER DAIRY #2**

LAGOON ID **74-1** Lat: **48.91145** Long: **-122.30061**

Telephone Cell **0** Work **360966-9706** / **360-815-7336**

FARM ADDRESS: **7480 OAT COLES ROAD, EVERSON**

REVIEW INVENTORY DATE: **3/6/12**

MANURE/ EFFLUENT LEVEL: **95** %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: **1** FT.

Completed by: **Den** Agency **DNMP/WSDA**

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: **3/6/12**



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-1 Lat: 48.91145 Long: -122.30061

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?	✓		
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-1 Lat: 48.91145 Long: -122.30061

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

Not fenced

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AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-1 Lat: 48.91145 Long: -122.30061

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1997?

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>88</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>113 steps</i>	285'	
3. Footprint - inside top - WIDTH <i>38 steps</i>	95'	
4. Embankment - Inside SS	1/2	> 2H:1V
5. Embankment - Outside SS	1/3	> 2H:1V
6. Embankment - Top Width	10'	
7. Embankment - Maximum Fill Height	8'	
8. Maximum Excavation Depth	<del>28</del> ' unknown	
9. Total POND Depth	unknown	
10. Liner type or soil amendment condition	clay / good	
11. Inlet type location and condition	good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED BOSSCHER

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

**A. Site inventory**

✓ N SR9 E maney N oat coles

LANDOWNER:

OPERATOR: ED BOSSCHER

1-3

AGID: **74** FARM NAME: **ED BOSSCHER DAIRY #2**

LAGOON ID: 74-1 S Lat: 48.911450 Long: -122.300610

Phones: (360) 966-9706 Cell: (360) 815-7336

FARM ADDRESS: **7480 OAT COLES ROAD EVERSON WA 98247**

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT. 5

Completed by: DWIGHT BELMONT Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17

Weather: Sunny

Temperature: 78

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-1

Lat: 48.911450

Long: -122.300610

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			↑
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-1

Lat: 48.911450

Long: -122.300610

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?		X	
3. Are recycling pumps and transfer pipes functioning?		X	
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?	X		
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-1

Lat: 48.911450

Long: -122.300610

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	10M	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth	4	
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

**Notes, drawings etc**

**A. Site inventory**

*OK* LANDOWNER: ED BOSSCHER

AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-2 Lat: 48.91203 Long: -122.30171

Telephone Cell 0 Work 360966-9706

FARM ADDRESS: 7480 OAT COLES ROAD, EVERSON

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-2 Lat: 48.91203 Long: -122.30171

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Small tree on SW corner of dike

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AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-2 Lat: 48.91203 Long: -122.30171

OPERATION AND MAINTENANCE					
If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section					
SITE INVENTORY QUESTION	YES	NO	NA		
1. Is there a permanent liquid level marker available to measure depth of pond?					
a. Is liquid level marker visible?		X			
b. Is storage capacity available for freeboard when pond is full?	X				
2. Are manure pump and transfer pipes functioning?	X				
3. Are recycling pumps and transfer pipes functioning?			X		
4. Is pond overflow pipe/structure clear and unobstructed?	X				
<b>CLEAN WATER DIVERSION</b>					
5. Perimeter drains plugged or blocked?			X		
6. All roof water or clean runoff is diverted from storage?	X				
7. Diversions/waterways maintained?			X		
<b>VISUAL APPEARANCE AND SAFETY</b>					
8. Site neat and recently mowed?	X				
9. Waste storage pond access fenced and properly marked?		X			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>					
10. Crust of solids on lagoon?		X			
11. Solids managed to <u>prevent</u> plants growing on crust?	X				
12. Anaerobic lagoon is purple/pink?	X				
13. Actively bubbling?		X			
14. Inlet pipes submerged?	X				
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable

COMMENTS:

Not fenced

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AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID 74-2 Lat: 48.91203 Long: -122.30171

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>89</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>90 steps</u>	<u>225'</u>	
3. Footprint - inside top - WIDTH <u>43 steps</u>	<u>108'</u>	
4. Embankment - Inside SS	<u>1/2</u>	> 2H:1V
5. Embankment - Outside SS	<u>1/3</u>	> 2H:1V
6. Embankment - Top Width	<u>8'</u>	
7. Embankment - Maximum Fill Height	<u>12'</u>	
8. Maximum Excavation Depth	<u>unknown</u>	
9. Total POND Depth	<u>unknown</u>	
10. Liner type or soil amendment condition	<u>clay / good</u>	
11. Inlet type location and condition	<u>good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: ED BOSSCHER

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

OPERATOR: ED BOSSCHER

1-3

AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-2 N Lat: 48.912030 Long: -122.301710

Phones: (360) 966-9706 Cell: (360) 815-7336

FARM ADDRESS: 7480 OAT COLES ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: DIPLOMATA Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17

Weather: Sunny

Temperature: 78

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 74 FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-2

Lat: 48.912030

Long: -122.301710

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-2

Lat: 48.912030

Long: -122.301710

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>		
3. Are recycling pumps and transfer pipes functioning?	<input checked="" type="checkbox"/>		
4. Is pond overflow pipe/structure clear and unobstructed?	<input checked="" type="checkbox"/>		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>		
9. Waste storage pond access fenced and properly marked?	<input checked="" type="checkbox"/>		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?		<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?		<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

LAGOON ID: 74-2

Lat: 48.91203000000001

Long: -122.30171

**B. Summarize review for structural data evaluation**

**Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.**

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1.9 M	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width		
8. Embankment - Maximum Fill Height	8	
9. Maximum Excavation Depth	.	
10. Total POND Depth	0	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 74

FARM NAME: ED BOSSCHER DAIRY #2

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: HANS WOLFISBERG

AGID: 9989 FARM NAME: EDELWEISS DAIRY

LAGOON ID 9989-1 Lat: 48.93479 Long: -122.40769

Telephone Cell 0 Work 360354-8040 360-410-8252

FARM ADDRESS: 1519 TIMON ROAD, EVERSON

REVIEW INVENTORY DATE: 3/15/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/15/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Thurs @ 10:00  
Call before

Needs RT  
RT done - 8-10-11

Needs a  
TAR  
for leaking  
lagoon!

AGID: 9989 FARM NAME: EDELWEISS DAIRY

LAGOON ID 9989-1 Lat: 48.93479 Long: -122.40769

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW				
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.				
SITE INVENTORY QUESTION	YES	NO	NA	
1. Embankment Interior and liner erosion observed?				
a. Due to wave action?				
b. In vicinity of waste inlet structure?				
c. Due to erosion from rainfall?				
d. Near agitation equipment access points?				
2. Pond was constructed without a liner?				
3. Circle liner type or NA:	<input checked="" type="checkbox"/> Compacted Clay	<input type="checkbox"/> Flexible Membrane	<input type="checkbox"/> Bentonite Amendment	<input type="checkbox"/> Other <input type="checkbox"/> NA
a. Erosion of liner material?				
b. Damaged material (holes, tears, seams)?				
c. Damage from pressure under liner (slumps, bulges, boils, whales)?				
4. Signs of embankment damage?				
a. Due to burrowing animals?	✓			
b. Presence of trees or woody vegetation?		✓		
c. Presence of large weeds?		✓		
d. Evidence of overtopping of embankment?		✓		
e. Evidence of soil erosion or gully on embankment?		✓		
f. Evidence of cracks in embankment soils?		✓		
g. Damp, soft, or slumping areas on berm?	✓			
h. Seepage near bottom of berm slope?	✓			
i. Seepage around pipes thru berm?		✓		

COMMENTS:

3 leaks on East side of lagoon dike due to rodents  
 2 slumping areas on South side of lagoon dike

AGID: 9989 FARM NAME: EDELWEISS DAIRY

LAGOON ID 9989-1 Lat: 48.93479 Long: -122.40769

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?			✓
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	✓		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9989 FARM NAME: EDELWEISS DAIRY

LAGOON ID 9989-1 Lat: 48.93479 Long: -122.40769

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>97</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>SS slope</i>	137'	
3. Footprint - inside top - WIDTH <i>SO slope</i>	125'	
4. Embankment - Inside SS	<i>unknown - full</i>	> 2H:1V
5. Embankment - Outside SS	1/4	> 2H:1V
6. Embankment - Top Width	6'	
7. Embankment - Maximum Fill Height	8'	
8. Maximum Excavation Depth	4'	
9. Total POND Depth	12'	
10. Liner type or soil amendment condition	clay	
11. Inlet type location and condition		
12. Outlet ramp condition		
13. Pump/agitation site condition		

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

?

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: HANS WOLFISBERG

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

MON 10AM  
10/29/12



**A. Site inventory**

LANDOWNER: SAME

OPERATOR: HANS WOLFISBERG

AGID: **9989** FARM NAME: EDELWEISS DAIRY

LAGOON ID: 9989-1 Lat: 48.934790<sup>3919</sup> Long: -122.407690<sup>395</sup>

Phones: (360) 354-8040 Cell: (360) 410-8282

FARM ADDRESS: 1519 TIMON ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 10-31-12

MANURE/ EFFLUENT LEVEL: 25 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 25 10-31-12

Weather: RAIN + WINDY

Temperature: 55

Soil surface: dry, moist, ~~wet~~, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?	NO		
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?	/		
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?	/		
f. Evidence of cracks in embankment soils?		/	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

LIVESTOCK ~~ARE~~ ARE PASTURED AND HAVE ACCESS TO LAGOON TOP  
 + OUTER BANK 1 OF EVERY 20 DAYS - SOME SLUGHING  
 AND BANK TOP EROSION

AGID: 9989

FARM NAME: EDELWEISS DAIRY

LAGOON ID: 9989-1

Lat: 48.934790

Long: -122.407690

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		/	
a. Is liquid level marker visible?		/	/
b. Is storage capacity available for freeboard when pond is full?		/	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			/
4. Is pond overflow pipe/structure clear and unobstructed?			/
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			/
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			/
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	FENCED		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	/		
11. Solids managed to <u>prevent</u> plants growing on crust?	/		
12. Anaerobic lagoon is purple/pink?		/	
13. Actively bubbling?	/		
14. Inlet pipes submerged?		/	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9989 FARM NAME: EDELWEISS DAIRY

LAGOON ID: 9989-1

Lat: 48.934790

Long: -122.407690

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: NRCS DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: ?

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	GROSS-DESIGN 1,289,000	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	155 NS	SEE BACK
4. Footprint - inside top - WIDTH	159 EW	
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	2:5	> 2H:1V
7. Embankment - Top Width	DESIGN 8 CONCRETE 4	
8. Embankment - Maximum Fill Height	5	
9. Maximum Excavation Depth	5.5	
10. Total POND Depth	10.5	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: <input checked="" type="checkbox"/> Farm Building, <input type="checkbox"/> Homes, <input type="checkbox"/> Roads, <input type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/ <input checked="" type="checkbox"/> no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		200' ON NEARS
19. Distance to nearest water course		300

COMMENTS:

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AGID: 9989 FARM NAME: EDELWEISS DAIRY

**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9989

FARM NAME: EDELWEISS DAIRY

Notes, drawings etc

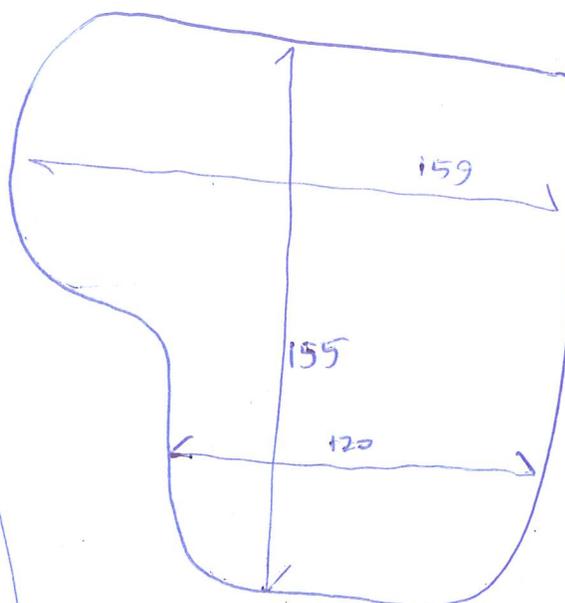
RESIDENCE

DAIRY

NOOKSACK  
R



LEVEE



**A. Site inventory**

-360-815-1955

LANDOWNER: Brian Postma

OPERATOR: HANS WOLFISBERG - EDELWEISS DAIRY

AGID: 2189 FARM NAME: FOREST GROVE FARM DAIRY

LAGOON ID HEIFER Lat: 48.92558 Long: 122.355415

Phones: 360-354-8040 Cell: 360-410-8282

FARM ADDRESS: 7859 TRAPLINE ROAD, EVERSON, WA 98247

REVIEW INVENTORY DATE: 7-17-2012

MANURE/ EFFLUENT LEVEL: ? % ~~34.5~~

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: MICHAEL I Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 7-17

HEIFERS ON SITE

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: SWANNY

Temperature: 75°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

RECEIVED  
AUG 17 2012  
WSDA  
DAIRY NUTRIENT MANAGEMENT

AGID: 2189

FARM NAME: FOREST GROVE FARM DAIRY

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			X
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?	X		
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds? - BB, THISTLE	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?	X		
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

3e HEIFERS HAVE ACCESS TO BANKS - N. BANK UNVEGETATED

LAGOON ID: Lat: Long:

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?			X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	FENCED		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		<del>X</del>	X
13. Actively bubbling?			X
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	Strong	Unbearable	

COMMENTS:

NO ODOUR

EXTENSIVE VEGETATION GROWING ON POND CRUST

EROSION FROM LOOFING - CATTLE WALKWAYS ESP ON W+S SIDE

AGID: 2189 FARM NAME: FOREST GROVE FARM DAIRY

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: ? DATE: ?

DATE ORIGINAL WASTE STORAGE POND COMPLETED: ?

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	?	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	160 NS	
4. Footprint - inside top - WIDTH	235 EW	
5. Embankment - Inside SS	2.5	> 2H:1V
6. Embankment - Outside SS	2.5	> 2H:1V
7. Embankment - Top Width	5	
8. Embankment - Maximum Fill Height	6	
9. Maximum Excavation Depth	?	
10. Total POND Depth	?	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA	?	
12. Inlet type and location: Pipe, <u>Flume</u> , Scrape/slab, Overflow 'T', Other	IN CONCRETE	
13. Outlet ramp slope and condition: none, <u>earthen, gravel</u> , concrete, other		
14. Pump/agitation site condition	EXTENSIVE VEG	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <u>Water Coursed</u>		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		NO
18. Distance to nearest home/dwelling		530'
19. Distance to nearest water course		280'

COMMENTS:


Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 2189

FARM NAME: FOREST GROVE FARM DAIRY

**Notes, drawings etc**



ok  
10:00

**A. Site inventory**

LANDOWNER: **LARRY PLAGERMAN**

AGID: **9948** FARM NAME: **EVER-LYN FARM DAIRY**

LAGOON ID **9948-1** Lat: **48.93395** Long: **-122.35047246**

Telephone Cell **0** Work ~~**360966-8832**~~ **360-966-9702** *Larry's cell: 360-315-1499*

FARM ADDRESS: **8076 TRAPLINE ROAD, EVERSON**

REVIEW INVENTORY DATE: **3/13/12**

MANURE/ EFFLUENT LEVEL: **100** %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation:      FT.

Completed by: **Dan** Agency **DNMP/WSDA**

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: **3/13/12**

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID 9948-1 Lat: 48.93395 Long: -122.35047246

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u>   Flexible Membrane   Bentonite Amendment   Other   NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

*Black berries*

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AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID 9948-1 Lat: 48.93395 Long: -122.35047246

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			✓
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?			✓
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	✓		
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?	✓		
13. Actively bubbling?	✓		
14. Inlet pipes submerged?	✓		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID 9948-1 Lat: 48.93395 Long: -122.35047246

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>104</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>111 steps</i>	<i>277'</i>	
3. Footprint - inside top - WIDTH <i>30 steps</i>	<i>75'</i>	
4. Embankment - Inside SS	<i>unknown</i>	> 2H:1V
5. Embankment - Outside SS	<i>2/1</i>	> 2H:1V
6. Embankment – Top Width	<i>12'</i>	
7. Embankment – Maximum Fill Height	<i>8'</i>	
8. Maximum Excavation Depth	<i>unknown</i>	
9. Total POND Depth	<i>unknown</i>	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LARRY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:



OPERATOR: LARRY PLAGERMAN

AGID: **9948** FARM NAME: **EVER-LYN FARM DAIRY**

LAGOON ID: 9948-1 W Lat: 48.933950 Long: -122.350472

Phones: (360) 966-8832 Cell:

FARM ADDRESS: 8076 TRAPLINE ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/19/2012

Trapline

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: Dave Hewitt Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/19/2012

Weather: Sunny

Temperature: 72

Soil surface: (D) dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID: 9948-1

Lat: 48.933950

Long: -122.350472

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		X	
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		X	
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?	X		
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

- Lots of weeds all sides

- Unable to walk around

- Some slab run off creating minor gully

AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID: 9948-1

Lat: 48.933950

Long: -122.350472

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?		X	
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?		X	
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X	X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to prevent plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID: 9948-1

Lat: 48.933950

Long: -122.350472

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	No	> 2H:1V
7. Embankment - Top Width		
8. Embankment - Maximum Fill Height	N	
9. Maximum Excavation Depth	10	
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: <input checked="" type="checkbox"/> none, <input type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, <input type="checkbox"/> other		
14. Pump/agitation site condition	GOOD	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➔ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

**Notes, drawings etc**

✓ ✓  
**A. Site inventory**

LANDOWNER: **LARRY PLAGERMAN**

AGID: **9948** FARM NAME: **EVER-LYN FARM DAIRY**

LAGOON ID **9948-2** Lat: **48.93401** Long: **-122.34976**

Telephone Cell **0** Work **360966-8832**

FARM ADDRESS: **8076 TRAPLINE ROAD, EVERSON**

REVIEW INVENTORY DATE: 3/13/12

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan Agency **DNMP/WSDA**

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/13/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID 9948-2 Lat: 48.93401 Long: -122.34976

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?	<input checked="" type="checkbox"/>		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Black berries

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AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID 9948-2 Lat: 48.93401 Long: -122.34976

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		Y	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		Y	
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	Y		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Faint <input type="checkbox"/> Distinct <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID 9948-2 Lat: 48.93401 Long: -122.34976

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1998<sup>2</sup>

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>105</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>100 ft</u>	<u>250'</u>	
3. Footprint - inside top - WIDTH <u>58 ft</u>	<u>145'</u>	
4. Embankment - Inside SS	<u>unknown</u>	> 2H:1V
5. Embankment - Outside SS	<u>1/3</u>	> 2H:1V
6. Embankment - Top Width	<u>12'</u>	
7. Embankment - Maximum Fill Height	<u>12'</u>	
8. Maximum Excavation Depth	<u>±</u>	
9. Total POND Depth	<u>12'</u>	
10. Liner type or soil amendment condition	<u>clay - good</u>	
11. Inlet type location and condition	<u>good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES      X   NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LARRY PLAGERMAN

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

*ANNEX 2 CALVIN  
Kelvin (son)*

*810 Trapline  
For Kelvin*

LANDOWNER:

OPERATOR: LARRY PLAGERMAN

AGID: **9948** FARM NAME: **EVER-LYN FARM DAIRY**

LAGOON ID: 9948-2 *E* Lat: 48.934010 Long: -122.349760

Phones: (360) 966-8832 Cell:

FARM ADDRESS: 8076 TRAPLINE ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/19/2012

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 108 FT.

Completed by: DAVE MEULBLOK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/19/2012

Weather: SUNNY

Temperature: 72

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

*Flume*

AGID: 9948 FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID: 9948-2

Lat: 48.934010

Long: -122.349760

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?		X	
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

3c: BB's

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AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID: 9948-2

Lat: 48.934010

Long: -122.349760

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?		X	
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

*Mostly water back flushed when land next door couldn't take.*

AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

LAGOON ID: 9948-2

Lat: 48.934010

Long: -122.349760

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	3:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9948

FARM NAME: EVER-LYN FARM DAIRY

**Notes, drawings etc**

✓  
✓  
A Percy

ov

**A. Site inventory**

LANDOWNER: **LAUREN HOEKEMA**

AGID: **10044** FARM NAME: **EVERNOOK VALLEY MILK DAIRY**

LAGOON ID **10044-1** Lat: **48.903161** Long: **-122.312498**

Telephone Cell **0** Work **360815-4880**

FARM ADDRESS: **3263 MASSEY ROAD, EVERSON**

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: Dan

Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: **10044** FARM NAME: **EVERNOOK VALLEY MILK DAIRY**

LAGOON ID **10044-1** Lat: 48.903161 Long: -122.312498

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked <b>"YES"</b> ; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> <u>Compacted Clay</u> <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

AGID: 10044 FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID 10044-1 Lat: 48.903161 Long: -122.312498

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

NOT fenced

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AGID: **10044** FARM NAME: **EVERNOOK VALLEY MILK DAIRY**

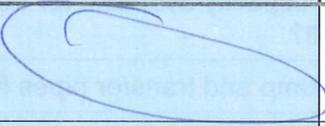
LAGOON ID **10044-1** Lat: 48.903161 Long: -122.312498

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>74</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>100 steps</i>	250'	
3. Footprint - inside top - WIDTH <i>100 steps</i>	250'	
4. Embankment - Inside SS	1/2	> 2H:1V
5. Embankment - Outside SS	1/4	> 2H:1V
6. Embankment - Top Width	15'	
7. Embankment - Maximum Fill Height	10'	
8. Maximum Excavation Depth	unknown	
9. Total POND Depth	unknown	
10. Liner type or soil amendment condition	clay / good	
11. Inlet type location and condition	good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

  X   YES      \_\_\_\_\_ NO

\_\_\_\_\_

**C. Does it appear that the WSP been structurally modified?**

       YES            NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LAUREN HOEKEMA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

A Percy ✓

**A. Site inventory**

OK

LANDOWNER: **LAUREN HOEKEMA**

AGID: **10044** FARM NAME: **EVERNOOK VALLEY MILK DAIRY**

LAGOON ID **10044-2** Lat: **48.904119** Long: **-122.322363**

Telephone Cell **0** Work **360815-4880**

FARM ADDRESS: **3263 MASSEY ROAD, EVERSON**

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Don Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 10044 FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID 10044-2 Lat: 48.904119 Long: -122.322363

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 10044 FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID 10044-2 Lat: 48.904119 Long: -122.322363

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	None Faint Distinct Strong Unbearable		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 10044 FARM NAME: EVERNOOK VALLEY MILK DAIRY

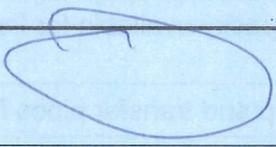
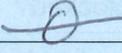
LAGOON ID 10044-2 Lat: 48.904119 Long: -122.322363

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>75</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>35 steps</u>	<u>90'</u>	
3. Footprint - inside top - WIDTH <u>35 steps</u>	<u>90'</u>	
4. Embankment - Inside SS	<u>unknown</u>	> 2H:1V
5. Embankment - Outside SS		> 2H:1V
6. Embankment - Top Width		
7. Embankment - Maximum Fill Height	<u>ground water</u>	
8. Maximum Excavation Depth	<u>4'</u>	
9. Total POND Depth	<u>4'</u>	
10. Liner type or soil amendment condition	<u>clay/good</u>	
11. Inlet type location and condition	<u>good</u>	
12. Outlet ramp condition	<u>good</u>	
13. Pump/agitation site condition	<u>good</u>	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: LAUREN HOEKEMA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

RT 9 ✓

LANDOWNER:

OPERATOR: LAUREN HOEKEMA

AGID: **10044** FARM NAME: **EVERNOOK VALLEY MILK DAIRY**

LAGOON ID: 10044-2 <sup>west of SR-9</sup> Lat: 48.904119 Long: -122.322363

Phones: (360) 815-4880 Cell:

FARM ADDRESS: 3263 MASSEY ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: Dirk Neubler Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17/2012

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

*enough catch basin for slab run-off*

AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID: 10044-2

Lat: 48.904119

Long: -122.322363

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID: 10044-2

Lat: 48.904119

Long: -122.322363

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to prevent plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID: 10044-2

Lat: 48.904119

Long: -122.322363

**B. Summarize review for structural data evaluation**

**Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.**

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	—	> 2H:1V
7. Embankment – Top Width	—	
8. Embankment – Maximum Fill Height	—	
9. Maximum Excavation Depth	4	
10. Total POND Depth	4	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

**Notes, drawings etc**

Corner SR 9 and Massey Rd

RT 9 ✓

**A. Site inventory**

LANDOWNER:

OPERATOR: LAUREN HOEKEMA

AGID: **10044** FARM NAME: **EVERNOOK VALLEY MILK DAIRY**

LAGOON ID: 10044-1 <sup>East of SR9</sup> Lat: 48.903161 Long: -122.312498

Phones: (360) 815-4880 Cell:

FARM ADDRESS: 3263 MASSEY ROAD EVERSON WA 98247

REVIEW INVENTORY DATE: 9/17/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: Dirk Neubauer Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/17

Weather: 68

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID: 10044-1

Lat: 48.903161

Long: -122.312498

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			/
a. Erosion of liner material?			/
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?	c	/	
i. Seepage around pipes thru berm?		/	e

COMMENTS:

*Presence in the west pond*

AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID: 10044-1

Lat: 48.903161

Long: -122.312498

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		<	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			△
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	u		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?		△	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

*Island*

AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

LAGOON ID: 10044-1

Lat: 48.903161

Long: -122.312498

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	6	
9. Maximum Excavation Depth	8	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 10044

FARM NAME: EVERNOOK VALLEY MILK DAIRY

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: PERCY HOEKEMA

AGID: 8714 FARM NAME: EVERNOOK DAIRY

LAGOON ID 8714-1 Lat: 48.91123 Long: -122.3382

Telephone Cell 0 Work 360942-3813

FARM ADDRESS: 7448 EMERSON ROAD, EVERSON

REVIEW INVENTORY DATE: 3/6/12

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/6/12

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

AGID: 8714 FARM NAME: EVERNOOK DAIRY

LAGOON ID 8714-1 Lat: 48.91123 Long: -122.3382

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

AGID: 8714 FARM NAME: EVERNOOK DAIRY

LAGOON ID 8714-1 Lat: 48.91123 Long: -122.3382

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct
	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

NOT fenced

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AGID: 8714 FARM NAME: EVERNOOK DAIRY

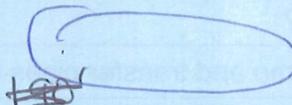
LAGOON ID 8714-1 Lat: 48.91123 Long: -122.3382

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: unknown

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>63</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>75 steps</i>	<del>190</del> 190'	
3. Footprint - inside top - WIDTH <i>80 steps</i>	200'	
4. Embankment - Inside SS	1/2	> 2H:1V
5. Embankment - Outside SS	1/3	> 2H:1V
6. Embankment - Top Width	8'	
7. Embankment - Maximum Fill Height	10'	
8. Maximum Excavation Depth	unknown	
9. Total POND Depth	unknown	
10. Liner type or soil amendment condition	clay / good	
11. Inlet type location and condition	good	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: PERCY HOEKEMA

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER:

*Lauren*

*W.D.*

OPERATOR: PERCY HOEKEMA

*9:30- 11:30*

AGID: **8714**

FARM NAME: **EVERNOOK DAIRY**

LAGOON ID: 8714-1

Lat: 48.914230

Long: -122.338200

Phones: (360) 942-3813

Cell: *911642*

*337571*

FARM ADDRESS: **7448 EMERSON ROAD EVERSON WA 98247**

REVIEW INVENTORY DATE: *9/17/2012*

MANURE/ EFFLUENT LEVEL: *100* %

*100%*  
*0*

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: *0* FT.

Completed by: *Percy Hoekema* Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: *9/17/12*

Weather: *68*

Temperature: *Sun*

Soil surface: *0* dry, moist, wet, saturated, standing water, frozen, snow covered

*\* Full visit 3/6/2012, entered as near Empty.*

AGID: 8714

FARM NAME: EVERNOOK DAIRY

LAGOON ID: 8714-1

Lat: 48.911230

Long: -122.338200

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.

Table with 4 columns: SITE INVENTORY QUESTION, YES, NO, NA. Contains 25 rows of questions regarding embankment erosion, liner construction, and signs of damage, with handwritten 'X' and checkmarks in the YES, NO, and NA columns.

COMMENTS:

blackberries growing along edge.

AGID: 8714

FARM NAME: EVERNOOK DAIRY

LAGOON ID: 8714-1

Lat: 48.911230

Long: -122.338200

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are recycling pumps and transfer pipes functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Is pond overflow pipe/structure clear and unobstructed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Diversions/waterways maintained?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Anaerobic lagoon is purple/pink?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. Actively bubbling?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Inlet pipes submerged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

*not fenced*

AGID: 8714

FARM NAME: EVERNOOK DAIRY

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.	1.8m	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	6	
8. Embankment - Maximum Fill Height	6	
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 8714

FARM NAME: EVERNOOK DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➔ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 8714

FARM NAME: EVERNOOK DAIRY

**Notes, drawings etc**

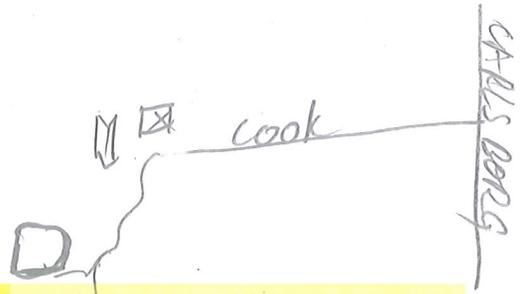
**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: \_\_\_\_\_

1-2

AGID: **OOB** FARM NAME: ELIDA SMITH DAIRY



LAGOON ID: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 242 COOK ROAD SEQUIM 98382

REVIEW INVENTORY DATE: 10/26/2019

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 14 FT.

Completed by: DICK M Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/26/2019

Weather: Overcast

Temperature: 48

Soil surface: moist, dry, wet, saturated, standing water, frozen, snow covered

AGID: OOB

FARM NAME: ELIDA SMITH DAIRY

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: OOB

FARM NAME: ELIDA SMITH DAIRY

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<del>X</del>	X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?		X	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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AGID: OOB FARM NAME: ELIDA SMITH DAIRY

LAGOON ID: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	18	
8. Embankment – Maximum Fill Height	8	
9. Maximum Excavation Depth	8	
10. Total POND Depth	18	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: OOB FARM NAME: ELIDA SMITH DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

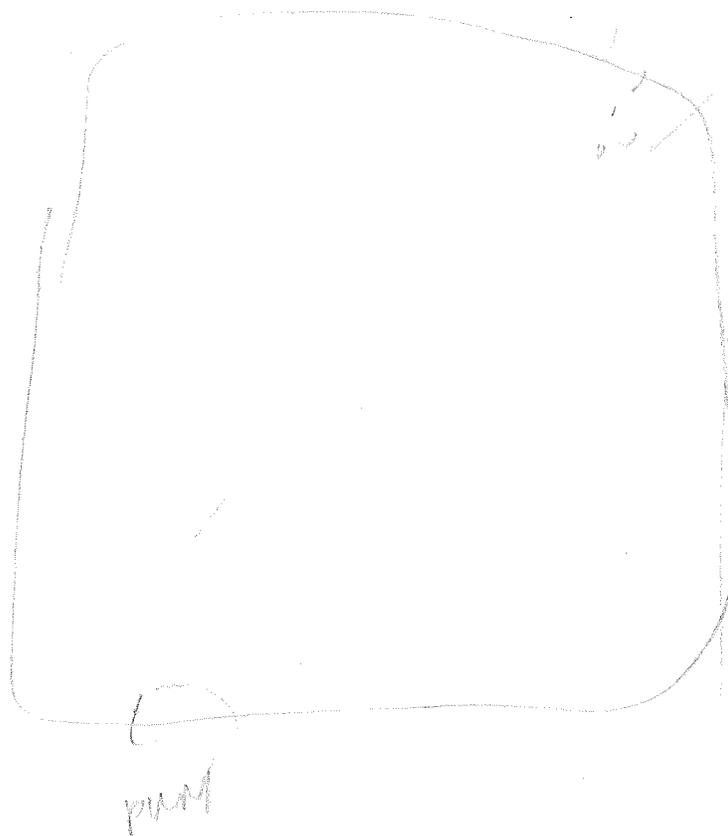
\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

9 N



D14  
Scribble  
6' pond  
adjoint  
E bank  
(slightly  
undercut)

G

Jefferson Co. ✓

W Valley

W Egg

Egg

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: \_\_\_\_\_

10 AM George Huntingford

AGID: OOB FARM NAME: GEE-GEM DAIRY

LAGOON ID: 4660-1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 444 EGG AND I ROAD CHIMACUM 98325

REVIEW INVENTORY DATE: \_\_\_\_\_

MANURE/ EFFLUENT LEVEL: \_\_\_\_\_ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: \_\_\_\_\_ Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Dan Cox  
Hired help  
Unaware of pond  
peat / underground  
lake

George LM w/o call back number  
mentioned he "operates as a Beef farm and  
has not used lagoons for 9 years  
welcome to stop by"

AGID: OOB

FARM NAME: GEE-GEM DAIRY

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

**EARTHEN STRUCTURAL REVIEW**

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: OOB

FARM NAME: GEE-GEM DAIRY

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to prevent plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - <i>or crest elevation if no spillway.</i>		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: OOB      FARM NAME: **GEE-GEM DAIRY**

**Notes, drawings etc**

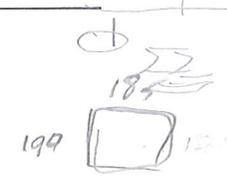
**A. Site inventory**



LANDOWNER: \_\_\_\_\_

OPERATOR: PATRICK MICHAELIS

AGID: 62 FARM NAME: GILES DAIRY



LAGOON ID: 62-1 Lat: 48.186876 Long: -122.222237

Phones: (360) 654-0643 Cell: \_\_\_\_\_

FARM ADDRESS: 526 E PIONEER HIGHWAY ARLINGTON WA 98223

REVIEW INVENTORY DATE: 10/18/2012

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: DIRK M Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 10/18/2012

Weather: Sunny

Temperature: 46

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

AGID: 62

FARM NAME: GILES DAIRY

LAGOON ID: 62-1Lat:

Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			X
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			C
3. Signs of embankment damage?			
a. Due to burrowing animals?	X	X	
b. Presence of trees or woody vegetation?	X	X	
c. Presence of large weeds?	X	X	
d. Evidence of overtopping of embankment?	X	X	
e. Evidence of soil erosion or gully on embankment?	X	X	
f. Evidence of cracks in embankment soils?	X	X	
g. Damp, soft, or slumping areas on berm?	X	X	
h. Seepage near bottom of berm slope?	X	X	
i. Seepage around pipes thru berm?	X	X	

COMMENTS:

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AGID: 62

FARM NAME: GILES DAIRY

LAGOON ID: 62-1Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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LAGOON ID: 62-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - <i>or crest elevation if no spillway.</i>		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width		
8. Embankment – Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 62 FARM NAME: GILES DAIRY

**Notes, drawings etc**

Sho/mish

DATE 4-16-12 STAFF **CM** FAC. SITE KEY **8745339** STATUS **Active**

FARM NAME **GILES DAIRY** AG ID **62**

FARM ADDRESS **526 E Pioneer Highway near Arlington**

FARM CONTACT \_\_\_\_\_

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP **1** THIS LAGOON ID **62-1**

1200 Ft  
S. River

LONGITUDE **-122.22247** LATITUDE **48.18807**

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY

PICTURES TAKEN

TODAY LIQUID LEVEL IS 2 FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in the COMMENT section

SITE INVENTORY QUESTION	YES	NO	NA		
1. Is there a permanent liquid level marker available to measure depth of pond?		✓			
a. Is liquid level marker visible?		✓			
b. Is storage capacity available for freeboard when pond is full?	✓				
2. Are manure pump and transfer pipes functioning?	✓				
3. Are recycling pumps and transfer pipes functioning?	✓				
4. Is pond overflow pipe/structure clear and unobstructed?	✓				
<b>CLEAN WATER DIVERSION</b>					
5. Perimeter drains plugged or blocked?		✓			
6. All roof water or clean runoff is diverted from storage?	✓				
7. Diversions/waterways maintained?	✓				
<b>VISUAL APPEARANCE AND SAFETY</b>					
8. Site neat and recently mowed?	✓				
9. Waste storage pond access fenced and properly marked?	✓				
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>					
10. Crust of solids on lagoon?		✓			
11. Solids managed to <u>prevent</u> plants growing on crust?	✓				
12. Anaerobic lagoon is purple/pink?		✓			
13. Actively bubbling?	✓				
14. Inlet pipes submerged?		✓			
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Faint	<input type="checkbox"/> Distinct	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable

Earthen Structural Review comments	Operations and Maintenance comments
Existing lagoon when purchased in 2007.	
No idea when built.	

AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: Gilts 4-16-12

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

*1-5 T-2007*

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	25% 2 FT	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	100	
3. Footprint - inside top - WIDTH	182	
4. Embankment - Inside SS	3:2	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	10 ft	
7. Embankment - Maximum Fill Height	10	
8. Maximum Excavation Depth	0	
9. Total POND Depth	10	
10. Liner type or soil amendment condition	Clay	
11. Inlet type location and condition	Soft nose above ground	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

*Excellent lagoon bank, great grass no moles, #*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_ YES \_\_\_\_\_ NO

*2007 bought place lagoon existing*



**A. Site inventory**

LANDOWNER: **SID GILIAM**

AGID: **8834** FARM NAME: **GILIAM DAIRY**

LAGOON ID **8834-1** Lat: **48.99368** Long: **-122.49541**

Telephone Cell **3604109361** Work **360354-5239**

FARM ADDRESS: 280 H STREET ROAD, LYNDEN

~~9610 ARLING~~

REVIEW INVENTORY DATE: 3-12-13

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan + Michael Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: 3-12-13



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

2:00  
LM

AGID: 8834 FARM NAME: GILIAM DAIRY

LAGOON ID 8834-1 Lat: 48.99368 Long: -122.49541

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?	✓		
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

Small shrubs on N bank and blackberries around edges

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AGID: 8834 FARM NAME: GILIAM DAIRY

LAGOON ID 8834-1 Lat: 48.99368 Long: -122.49541

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?	X		
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?	X		
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to prevent plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?	X		
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is:	None	Faint	Distinct
	Strong	Unbearable	

COMMENTS:

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AGID: 8834 FARM NAME: GILIAM DAIRY

LAGOON ID 8834-1 Lat: 48.99368 Long: -122.49541

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: 1999

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>213</sup>
1. Storage capacity at overflow, or crest elevation if no spillway. <u>53</u>		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <u>53</u>	<u>132'</u>	
3. Footprint - inside top - WIDTH <u>55</u>	<u>137'</u>	
4. Embankment - Inside SS <u>7</u>	<u>UNK</u>	> 2H:1V
5. Embankment - Outside SS <u>4H:2V</u>	<u>2H:1V</u>	> 2H:1V
6. Embankment - Top Width	<u>9'</u>	
7. Embankment - Maximum Fill Height	<u>10'</u>	
8. Maximum Excavation Depth	<u>0</u>	
9. Total POND Depth	<u>UNK</u>	
10. Liner type or soil amendment condition	<u>CLAY</u>	
11. Inlet type location and condition	<u>PIPE - GOOD</u>	
12. Outlet ramp condition	<u>FINE</u>	
13. Pump/agitation site condition	<u>FINE</u>	

COMMENTS:

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\_\_\_\_\_

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

X YES \_\_\_\_\_ NO

**C. Does it appear that the WSP been structurally modified?**

       YES    X NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: SID GILIAM

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: SID GILIAM

q-11

AGID: **8834** FARM NAME: GILIAM DAIRY

LAGOON ID: 8834-1 Lat: 48.993~~680~~<sup>4404</sup> Long: -122.4954~~10~~<sup>326</sup>

Phones: (360) 354-5239 Cell: (360) 410-9361

FARM ADDRESS: 280 H STREET ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 9/13/2012

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/13/2012

Weather: sunny

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 8834

FARM NAME: GILIAM DAIRY

LAGOON ID: 8834-1

Lat: 48.993680

Long: -122.495410

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		<	
2. Are manure pump and transfer pipes functioning?	α	X	
3. Are recycling pumps and transfer pipes functioning?	Λ	<	
4. Is pond overflow pipe/structure clear and unobstructed?	C	Λ	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			<
6. All roof water or clean runoff is diverted from storage?		l	
7. Diversions/waterways maintained?		X	
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	Λ		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	Λ		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	10	
8. Embankment - Maximum Fill Height	10	
9. Maximum Excavation Depth	2	
10. Total POND Depth	12	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: none, <input checked="" type="checkbox"/> earthen, <input type="checkbox"/> gravel, <input type="checkbox"/> concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 8834 FARM NAME: GILIAM DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

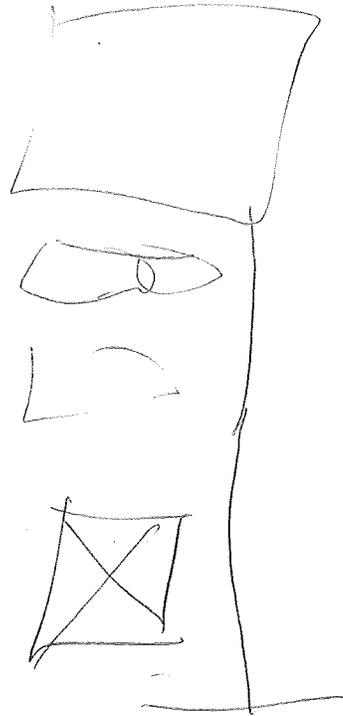
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 8834

FARM NAME: **GILIAM DAIRY**

**Notes, drawings etc**



✓ 1  
**A. Site inventory**

LANDOWNER: **GLEN BLANKERS**

AGID: **4587** FARM NAME: **GLEN BLANKERS DAIRY**

LAGOON ID **4587-1** Lat: **48.9821** Long: **-122.48563**

Telephone Cell **0** Work **360354-4854**

FARM ADDRESS: **9383 GUIDE-MERIDIAN ROAD, LYNDEN**

REVIEW INVENTORY DATE: 3-12-12

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Cara Magann Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)  
DATE: 3-12-12

WSP is near empty (Typically late summer or early fall,  
depending on operation management)  
DATE: \_\_\_\_\_

AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-1 Lat: 48.9821 Long: -122.48563

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		no	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-1 Lat: 48.9821 Long: -122.48563

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?	✓	-	
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?		✓	
15. Downwind odor from WSP is:	<del>None</del>	Faint	Distinct Strong Unbearable

COMMENTS:

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\_\_\_\_\_

AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-1 Lat: 48.9821 Long: -122.48563

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>210</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	125	
3. Footprint - inside top - WIDTH	75	
4. Embankment - Inside SS	NA	> 2H:1V
5. Embankment - Outside SS	30%	> 2H:1V
6. Embankment - Top Width	10 FT	
7. Embankment - Maximum Fill Height	6 FT	
8. Maximum Excavation Depth	4 FT	
9. Total POND Depth	10 FT	
10. Liner type or soil amendment condition	Clay	
11. Inlet type location and condition	N. NE	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO 1985

**C. Does it appear that the WSP been structurally modified?**

       YES        X   NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GLEN BLANKERS

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: GLEN BLANKERS

AGID: **4587** FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID: 4587-1 **E** Lat: 48.982100 Long: -122.485630

Phones: (360) 354-4854 Cell: (360) 815-5443

FARM ADDRESS: 9383 GUIDE-MERIDIAN ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 9/26/2012

MANURE/ EFFLUENT LEVEL: 10% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: \_\_\_\_\_ Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

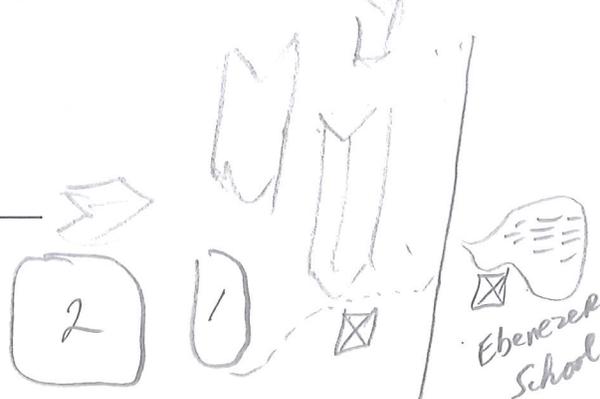
WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/26/2012

Weather: Sunny

Temperature: 66°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?		/	
b. In vicinity of waste inlet structure?		/	
c. Due to erosion from rainfall?		/	
d. Near agitation equipment access points?		/	
2. Pond was constructed <u>with</u> a liner?		X	
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?		X	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		/	
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		/	
c. Presence of large weeds?		/	
d. Evidence of overtopping of embankment?		/	
e. Evidence of soil erosion or gully on embankment?		/	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		/	
h. Seepage near bottom of berm slope?		/	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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AGID: 4587

FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID: 4587-1

Lat: 48.982100

Long: -122.485630

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	72:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width		
8. Embankment - Maximum Fill Height	2	
9. Maximum Excavation Depth	3	
10. Total POND Depth	11	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition	c	
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4587

FARM NAME: **GLEN BLANKERS DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: GLEN BLANKERS

AGID: **4587** FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID: 4587-2 <sup>W</sup> Lat: 48.982180 Long: -122.485630

Phones: (360) 354-4854 Cell: (360) 815-5443 <sup>2240 6795</sup>

FARM ADDRESS: 9383 <sup>9395</sup> GUIDE-MERIDIAN ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 9/26/2012

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 7 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/26/2012

Weather: Sunny

Temperature: 66

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?		X	/
b. Damaged material (holes, tears, seams)?			/
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			/
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

W Bank messy

AGID: 4587

FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID: 4587-2

Lat: 48.982100

Long: -122.485630

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?			X
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?	X		
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	X		
11. Solids managed to <u>prevent</u> plants growing on crust?	X	<del>X</del>	
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?	X		
14. Inlet pipes submerged?		X	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	72:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment – Top Width	9	
8. Embankment – Maximum Fill Height	10	
9. Maximum Excavation Depth	4	
10. Total POND Depth	14	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, <u>Overflow 'T'</u> , Other		
13. Outlet ramp slope and condition: none, earthen, gravel, <u>concrete</u> , other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4587

FARM NAME: **GLEN BLANKERS DAIRY**

**Notes, drawings etc**

A. Site inventory

LANDOWNER: **GLEN BLANKERS**

Cell- 815-5443

S/S

AGID: **4587** FARM NAME: **GLEN BLANKERS DAIRY**

LAGOON ID **4587-2** Lat: **48.9821** Long: **-122.48563**

Telephone Cell **0** Work **360354-4854**

FARM ADDRESS: **9383 GUIDE-MERIDIAN ROAD, LYNDEN**

REVIEW INVENTORY DATE: 3-12-12

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: CARA Agency DNMP/WSDA

CHECK REVIEW CONDITION BELOW:

WSP is FULL (Typically late winter or early spring)

DATE: 3/12/2012

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-2 Lat: 48.9821 Long: -122.48563

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		↑	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

*Few mals*

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AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-2 Lat: 48.9821 Long: -122.48563

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?		✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to prevent plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?		✓	
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Faint	<input type="checkbox"/> Distinct
	<input type="checkbox"/> Strong	<input type="checkbox"/> Unbearable	

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-2 Lat: 48.9821 Long: -122.48563

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>209</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	1.25	
3. Footprint - inside top - WIDTH	100	
4. Embankment - Inside SS	3:2	> 2H:1V
5. Embankment - Outside SS	3:2	> 2H:1V
6. Embankment - Top Width	10	
7. Embankment - Maximum Fill Height	10	
8. Maximum Excavation Depth	4	
9. Total POND Depth	10	
10. Liner type or soil amendment condition	Clay	
11. Inlet type location and condition	gravity made	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES

NO

NRCS 1985 BM

**C. Does it appear that the WSP been structurally modified?**

       YES     NO    ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GLEN BLANKERS

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

**A. Site inventory**

LANDOWNER: **GLEN BLANKERS**

AGID: **4587** FARM NAME: **GLEN BLANKERS DAIRY**

LAGOON ID **4587-3** Lat: **48.9821** Long: **-122.48563**

Telephone Cell **0** Work **360354-4854**

FARM ADDRESS: **9383 GUIDE-MERIDIAN ROAD, LYNDEN**

REVIEW INVENTORY DATE: 3-12-12

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 31 FT.

Completed by: CAPA Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: 3/12/2012

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-3 Lat: 48.9821 Long: -122.48563

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA:	<input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?			
a. Due to burrowing animals?		✓	
b. Presence of trees or woody vegetation?		✓	
c. Presence of large weeds?		✓	
d. Evidence of overtopping of embankment?		✓	
e. Evidence of soil erosion or gully on embankment?		✓	
f. Evidence of cracks in embankment soils?		✓	
g. Damp, soft, or slumping areas on berm?		✓	
h. Seepage near bottom of berm slope?		✓	
i. Seepage around pipes thru berm?		✓	

COMMENTS:

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AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-3 Lat: 48.9821 Long: -122.48563

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?		✓	
b. Is storage capacity available for freeboard when pond is full?	✓		
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓	✓	
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?	•	✓	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓	✓	
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?		✓	
15. Downwind odor from WSP is:	None	<del>Faint</del>	Distinct Strong Unbearable

COMMENTS:

*Few mole holes*

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AGID: 4587 FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID 4587-3 Lat: 48.9821 Long: -122.48563

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>211</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	100	
3. Footprint - inside top - WIDTH	60	
4. Embankment - Inside SS	3:2	> 2H:1V
5. Embankment - Outside SS	NA	> 2H:1V
6. Embankment - Top Width	10 FT	
7. Embankment - Maximum Fill Height	6 FT	
8. Maximum Excavation Depth	4 FT	
9. Total POND Depth	10 FT	
10. Liner type or soil amendment condition	Clay	
11. Inlet type location and condition	Soft hose	
12. Outlet ramp condition	good	
13. Pump/agitation site condition	good	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO

NRCS. late 80's  
purchased 97, not involved  
in design process  
↓  
Process

**C. Does it appear that the WSP been structurally modified?**

       YES      ~~NO~~      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GLEN BLANKERS

(1) Was the WSP modification designed? CIRCLE ONE:    YES    NO    NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

**Notes, drawings etc**

**A. Site inventory**

*was Bierlinks*

LANDOWNER: \_\_\_\_\_

*2 1*

OPERATOR: GLEN BLANKERS

AGID: **4587** FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID: 4587-3

Lat: 48.982400

Long: -122.485630

*0264*

*6553*

Phones: (360) 354-4854 Cell: (360) 815-5443

FARM ADDRESS: ~~9383~~ GUIDE-MERIDIAN ROAD LYNDEN WA 98264

*9391*

REVIEW INVENTORY DATE: 9/26/2012

MANURE/ EFFLUENT LEVEL: 2 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: DICK MEUBLOK Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**



WSP is FULL (Typically late winter or early spring)

*3*

DATE: \_\_\_\_\_



WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/26/2012

Weather: Sunny

Temperature: 66

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

<b>EARTHEN STRUCTURAL REVIEW</b>			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 4587

FARM NAME: GLEN BLANKERS DAIRY

LAGOON ID: 4587-3

Lat: 48.982100

Long: -122.485630

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?			X
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	X		
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			X
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable		

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	72:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	12	
8. Embankment - Maximum Fill Height	6	
9. Maximum Excavation Depth	2	
10. Total POND Depth	8	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input checked="" type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="checkbox"/> Pipe, <input type="checkbox"/> Flume, <input type="checkbox"/> Scrape/slab, <input type="checkbox"/> Overflow 'T', <input type="checkbox"/> Other		
13. Outlet ramp slope and condition: none, earthen, gravel, <input checked="" type="checkbox"/> concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, <input checked="" type="checkbox"/> Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		No
18. Distance to nearest home/dwelling		300
19. Distance to nearest water course		50'

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4587

FARM NAME: **GLEN BLANKERS DAIRY**

**Notes, drawings etc**

**A. Site inventory**

LANDOWNER: Tim & Julie Vander Haak

*- DID NOT CONTACT, SPOKE  
W/ RENTOR WHO COULD  
NOT GIVE ACCESS  
PERMISSION*

OPERATOR: \_\_\_\_\_

AGID: **9740** FARM NAME: **GOLDEN HILLS DAIRY**

LAGOON ID **1: EAST** Lat: **48.98088** Long: **122.51492**

Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 9347 AXLING ROAD, LYNDEN, WA 98264

REVIEW INVENTORY DATE: 7/19/12

MANURE/ EFFLUENT LEVEL: \_\_\_\_\_ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: JENSEN Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

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AUG 17 2012

WSDA  
DAIRY NUTRIENT MANAGEMENT

AGID: 9740

FARM NAME: GOLDEN HILLS DAIRY

LAGOON ID:

Lat:

Long:

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

### EARTHEN STRUCTURAL REVIEW

If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in **REPORT** section.

SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID: 9740 FARM NAME: GOLDEN HILLS DAIRY

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	200 NS	
4. Footprint - inside top - WIDTH	125 EW	
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment - Top Width		
8. Embankment - Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		300 ft to E, > 400 ft downstream
19. Distance to nearest water course		175 ft

COMMENTS:


Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➔ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9740

FARM NAME: GOLDEN HILLS DAIRY

**Notes, drawings etc**

**A. Site inventory**



LANDOWNER: \_\_\_\_\_

OPERATOR: John Vaner Haak 9-11

AGID: 9740 FARM NAME: GOLDEN HILLS DAIRY

LAGOON ID: 9740-1 Lat: 48.9808970 Long: -122.513936  
Phones: Cell: 88 492

FARM ADDRESS: 9347 AXLING ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 9/27/2012

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: DICK MEULDER Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/27/2012

Weather: Slight fog

Temperature: 58

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Rented "OAT" to the Bjorn's, eh.  
Owned by Tim & Julie Vander haak on Berthussen Rd (according to tenant)

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			/
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

3 c Inside banks behind fence

AGID: 9740

FARM NAME: GOLDEN HILLS DAIRY

LAGOON ID: 9740-1

Lat: 48.9808970

Long: -122.513936

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		X	
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?			X
2. Are manure pump and transfer pipes functioning?			X
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			X
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?			X
13. Actively bubbling?			X
14. Inlet pipes submerged?			X
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

*Cows have access to S and E banks*

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	180	
4. Footprint - inside top - WIDTH	100	
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	3:1	> 2H:1V
7. Embankment - Top Width	6	
8. Embankment - Maximum Fill Height	5	
9. Maximum Excavation Depth	3	
10. Total POND Depth	8	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

\_\_\_\_ YES \_\_\_\_ NO

C. Does it appear that the WSP been structurally modified?

\_\_\_\_ YES \_\_\_\_ NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 9740

FARM NAME: **GOLDEN HILLS DAIRY**

**Notes, drawings etc**

**A. Site inventory**

2-4

LANDOWNER: VANOSSE HAAK

OPERATOR: \_\_\_\_\_

AGID: 9740 FARM NAME: GOLDEN HILLS DAIRY

LAGOON ID # 2: WEST Lat: 48.98082 Long: 122.51550  
Phones: \_\_\_\_\_ Cell: \_\_\_\_\_

FARM ADDRESS: 9347 AXLING

REVIEW INVENTORY DATE: 7/19/12

MANURE/ EFFLUENT LEVEL: \_\_\_\_\_ % SEE # 1

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: \_\_\_\_\_ FT.

Completed by: T SENSEE Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: \_\_\_\_\_

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

RECEIVED  
AUG 17 2012  
WSDA  
DAIRY NUTRIENT MANAGEMENT

AGID: FARM NAME:

LAGOON ID: Lat: Long:

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

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AGID:

FARM NAME:

LAGOON ID:

Lat:

Long:

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?			
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?			
9. Waste storage pond access fenced and properly marked?			
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?			
11. Solids managed to <u>prevent</u> plants growing on crust?			
12. Anaerobic lagoon is purple/pink?			
13. Actively bubbling?			
14. Inlet pipes submerged?			
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input type="checkbox"/> Unbearable			

COMMENTS:

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AGID: FARM NAME:

LAGOON ID: Lat: Long:

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	207 NS	
4. Footprint - inside top - WIDTH	140 EW	
5. Embankment - Inside SS		> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment - Top Width		
8. Embankment - Maximum Fill Height		
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		>4000 Ft DOWN, 600 Ft to SE
19. Distance to nearest water course		35' NW

COMMENTS:


AGID:

FARM NAME:

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID:

FARM NAME:

**Notes, drawings etc**



**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: John Vander Haak 9-11

AGID: 9740 FARM NAME: GOLDEN HILLS DAIRY

LAGOON ID: 9740-2 W Lat: 48.980897 Long: -122.513936

Phones: Cell: 722 5420

FARM ADDRESS: 9347 AXLING ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 9/27/2012

MANURE/ EFFLUENT LEVEL: 15 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 7 FT.

Completed by: DIANE HEMMAD Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/27/2012

Weather: Slight Fog

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

30 W bank covered w/ Horse tails  
 NW : BB's  
 BB's between 1 & 2

**OPERATION AND MAINTENANCE**

If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in **REPORT** section

SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?		X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			X
4. Is pond overflow pipe/structure clear and unobstructed?	X		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			
6. All roof water or clean runoff is diverted from storage?			
7. Diversions/waterways maintained?			
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?	X		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?	X		
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	< 2:1	> 2H:1V
7. Embankment - Top Width	8	
8. Embankment - Maximum Fill Height	10	
9. Maximum Excavation Depth	0	
10. Total POND Depth	10	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: <input checked="" type="radio"/> Pipe, <input type="radio"/> Flume, <input type="radio"/> Scrape/slab, <input type="radio"/> Overflow 'T', <input type="radio"/> Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES  NO

**C. Does it appear that the WSP been structurally modified?**

YES  NO ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

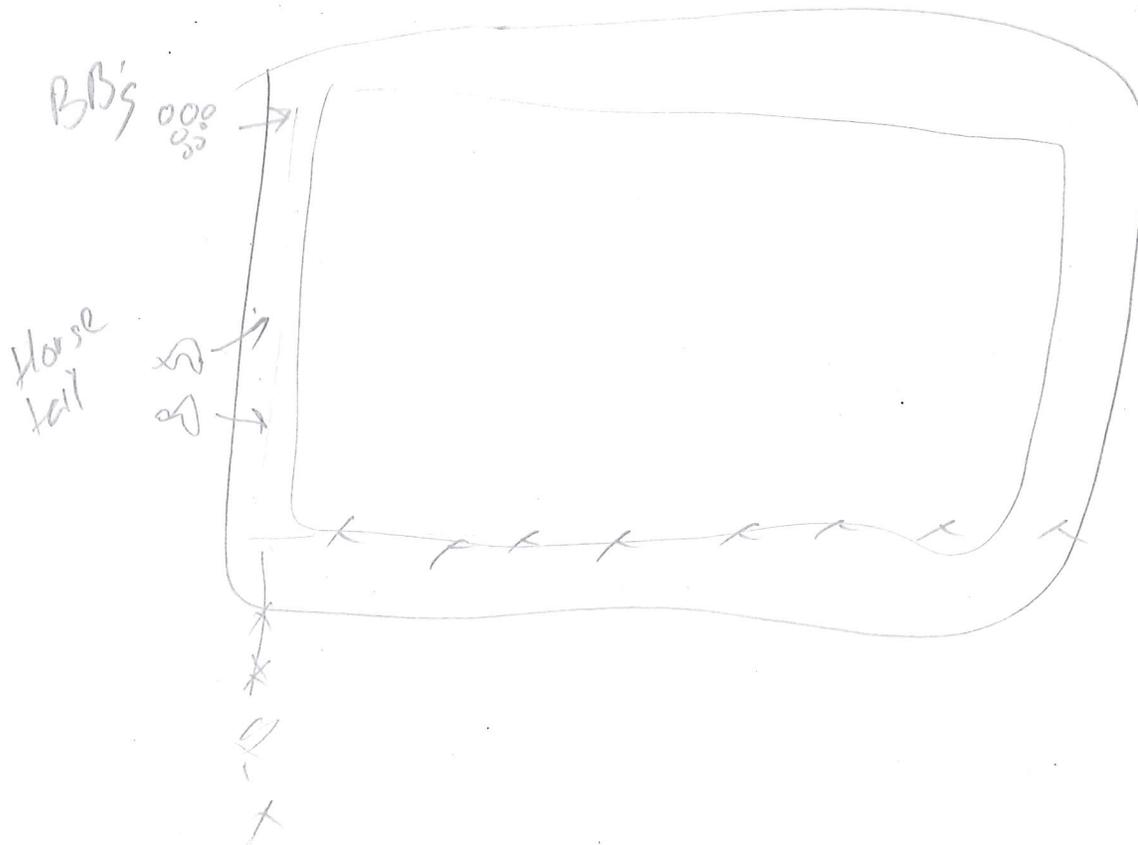
(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc



D-1

1:00 ✓



King

DATE 4/18/12 STAFF DM FAC. SITE KEY 5650407 STATUS Active

FARM NAME GREEN ACRES DAIRY LLC AG ID 4535

FARM ADDRESS 19605 W Snoqualmie River Road near Duvall

FARM CONTACT James Roetcrisoender <sup>Jason</sup> ~~425-798-1435~~ <sup>425-798-1435</sup> / 206-372-5587

FARM CONTACT MAILING ADDRESS \_\_\_\_\_

# OF LAGOONS MANAGED UNDER NMP 2 THIS LAGOON ID 4535-1

LONGITUDE -121.96109 LATITUDE 47.71058

WSP IS TODAY  NEARLY FULL  NEARLY EMPTY  PICTURES TAKEN

TODAY LIQUID LEVEL IS 2' FEET BELOW TOP OF EMBANKMENT OR SPILLWAY ELEVATION

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in COMMENTS section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>without</u> a liner?			
3. Circle liner type or NA: <u>Compacted Clay</u> <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA <input type="checkbox"/>			
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
4. Signs of embankment damage?			
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			



AGID: «AgID» FARM NAME: «Facility\_Name»

LAGOON ID «Lagoon\_ID» Lat: «Latitude» Long: «Longitude»

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>1</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH <i>86 steps</i>		
3. Footprint - inside top - WIDTH <i>50 steps</i>		
4. Embankment - Inside SS <i>Full</i>		> 2H:1V
5. Embankment - Outside SS	<i>ground level</i>	> 2H:1V
6. Embankment - Top Width	<i>" "</i>	
7. Embankment - Maximum Fill Height	<i>0</i>	
8. Maximum Excavation Depth	<i>12</i>	
9. Total POND Depth	<i>12</i>	
10. Liner type or soil amendment condition	<i>clay - good</i>	
11. Inlet type location and condition	<i>hose - good</i>	
12. Outlet ramp condition	<i>good</i>	
13. Pump/agitation site condition	<i>good</i>	

COMMENTS:

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DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

\_\_\_\_\_ YES \_\_\_\_\_ NO



**A. Site inventory**

*Van E SS*

*GA*

LANDOWNER: \_\_\_\_\_

OPERATOR: JAMES ROETCISOENDER *9*

AGID: **4535** FARM NAME: GREEN ACRES DAIRY LLC

LAGOON ID: 4535-1 Lat: *47.766194* Long: \_\_\_\_\_

Phones: (425) 788-1435 Cell: (206) 372-5587 *-121.974289*

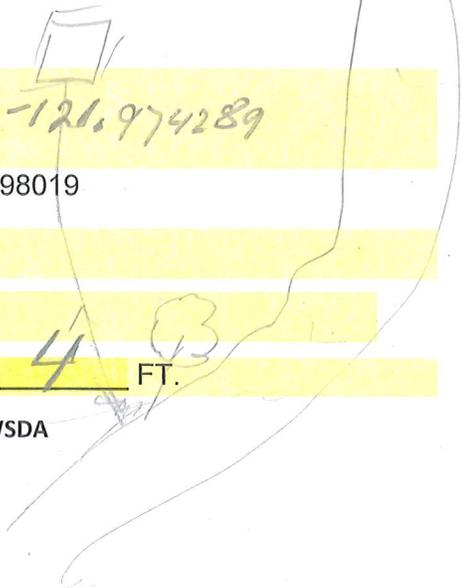
FARM ADDRESS: 19605 W SNOQUALMIE RIVER ROAD DUVALL WA 98019

REVIEW INVENTORY DATE: *10/17/2012*

MANURE/ EFFLUENT LEVEL: *45* %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: *4* FT.

Completed by: *DIPK M* Agency DNMP/WSDA



**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: *10/17/2012*

Weather: *Fog*

Temperature: *42*

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?			
a. Due to wave action?		X	
b. In vicinity of waste inlet structure?		X	
c. Due to erosion from rainfall?		X	
d. Near agitation equipment access points?		X	
2. Pond was constructed <u>with</u> a liner?		X	
a. Erosion of liner material?		/	
b. Damaged material (holes, tears, seams)?			X
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			X
3. Signs of embankment damage?			
a. Due to burrowing animals?		/	
b. Presence of trees or woody vegetation?	X		
c. Presence of large weeds?	X		
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		/	

COMMENTS:

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OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?			
a. Is liquid level marker visible?	X	X	
b. Is storage capacity available for freeboard when pond is full?		X	
2. Are manure pump and transfer pipes functioning?	X		
3. Are recycling pumps and transfer pipes functioning?			
4. Is pond overflow pipe/structure clear and unobstructed?			
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?			X
6. All roof water or clean runoff is diverted from storage?			X
7. Diversions/waterways maintained?			X
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?		X	
9. Waste storage pond access fenced and properly marked?		X	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		X	
11. Solids managed to <u>prevent</u> plants growing on crust?			X
12. Anaerobic lagoon is purple/pink?		X	
13. Actively bubbling?		X	
14. Inlet pipes submerged?	X		
15. Downwind odor from WSP is:	<input checked="" type="checkbox"/> Strong <input type="checkbox"/> Unbearable		

COMMENTS:

*does not look like manure*

LAGOON ID: 4535-1

Lat:

Long:

**B. Summarize review for structural data evaluation**

**Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.**

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS		> 2H:1V
7. Embankment – Top Width	8	
8. Embankment – Maximum Fill Height	10	
9. Maximum Excavation Depth		
10. Total POND Depth		
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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**Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?**

YES       NO

**C. Does it appear that the WSP been structurally modified?**

YES       NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 4535

FARM NAME: **GREEN ACRES DAIRY LLC**

**Notes, drawings etc**



AGID: 5375 FARM NAME: GREG SMIT DAIRY

LAGOON ID 5375-1 Lat: 48.96995 Long: -122.51358

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in REPORT section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		✓	
a. Due to wave action?		✓	
b. In vicinity of waste inlet structure?		✓	
c. Due to erosion from rainfall?		✓	
d. Near agitation equipment access points?		✓	
2. Pond was constructed <u>without</u> a liner? <i>Clay</i>		✓	
3. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA			
a. Erosion of liner material?		✓	
b. Damaged material (holes, tears, seams)?		✓	
c. Damage from pressure under liner (slumps, bulges, boils, whales)?		✓	
4. Signs of embankment damage?		✓	
a. Due to burrowing animals?			
b. Presence of trees or woody vegetation?			
c. Presence of large weeds?			
d. Evidence of overtopping of embankment?			
e. Evidence of soil erosion or gully on embankment?			
f. Evidence of cracks in embankment soils?			
g. Damp, soft, or slumping areas on berm?			
h. Seepage near bottom of berm slope?			
i. Seepage around pipes thru berm?			

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 5375 FARM NAME: GREG SMIT DAIRY

LAGOON ID 5375-1 Lat: 48.96995 Long: -122.51358

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		✓	
a. Is liquid level marker visible?			
b. Is storage capacity available for freeboard when pond is full?			
2. Are manure pump and transfer pipes functioning?	✓		
3. Are recycling pumps and transfer pipes functioning?	✓		
4. Is pond overflow pipe/structure clear and unobstructed?	✓		
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		✓	
6. All roof water or clean runoff is diverted from storage?	✓		
7. Diversions/waterways maintained?	✓		
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	✓		
9. Waste storage pond access fenced and properly marked?	✓		
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?		✓	
11. Solids managed to <u>prevent</u> plants growing on crust?	✓		
12. Anaerobic lagoon is purple/pink?		✓	
13. Actively bubbling?	✓		
14. Inlet pipes submerged?			
15. Downwind odor from WSP is:	None	✓ Faint	Distinct Strong Unbearable

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGID: 5375 FARM NAME: GREG SMIT DAIRY

LAGOON ID 5375-1 Lat: 48.96995 Long: -122.51358

**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification <sup>140</sup>
1. Storage capacity at overflow, or crest elevation if no spillway.	<i>Both 5375-1 &amp; 2</i>	Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH	<i>250 272</i>	
3. Footprint - inside top - WIDTH	<i>175</i>	
4. Embankment - Inside SS	<i>72:1 &gt;</i>	> 2H:1V
5. Embankment - Outside SS	<i>72:1 &gt;</i>	> 2H:1V
6. Embankment - Top Width	<i>10 10</i>	
7. Embankment - Maximum Fill Height	<i>6 6</i>	
8. Maximum Excavation Depth	<i>4.5 4.5</i>	
9. Total POND Depth	<i>10.5 10.5</i>	
10. Liner type or soil amendment condition	<i>Clay</i>	
11. Inlet type location and condition	<i>CDS 71 Overland</i>	
12. Outlet ramp condition	<i>Concrete every corner</i>	
13. Pump/agitation site condition	<i>" "</i>	

COMMENTS:

*Lagoon 5375-1 & 5375-2 built the same at the same time*

DOES IT APPEAR THAT THE WSP WAS DESIGNED BY NRCS OR MET THE NRCS DESIGN CRITERIA IN PLACE AT THE TIME IT WAS INSTALLED OR LAST MODIFIED?

YES  NO

*NRCS 130N SW 2004*

**C. Does it appear that the WSP been structurally modified?**

       YES             NO      ➤ If yes complete section below.

*Add any additional details of construction or description of the modified structure for accurate representation of the project.*

LANDOWNER/FARM NAME: GREGORY J SMIT

(1) Was the WSP modification designed? CIRCLE ONE:    YES      NO      NA  
If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(2) Date of modification construction? \_\_\_\_\_

(3) Description of structural modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of modification on structural integrity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

Notes, drawings etc

**A. Site inventory**

LANDOWNER: \_\_\_\_\_

OPERATOR: GREGORY SMIT

1-3

AGID: 5375 FARM NAME: GREG SMIT DAIRY

LAGOON ID: 5375-2 S Lat: 48.971120 Long: -122.518077

Phones: (360) 354-2649 Cell: \_\_\_\_\_

FARM ADDRESS: 9041 AXLING ROAD LYNDEN WA 98264

REVIEW INVENTORY DATE: 9/13/2012

MANURE/ EFFLUENT LEVEL: 2 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: [Signature] Agency DNMP/WSDA

**CHECK REVIEW CONDITION BELOW:**

WSP is FULL (Typically late winter or early spring)

DATE: \_\_\_\_\_

WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 9/13/2012

Weather: Partly Sunny

Temperature: 78

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

3' of solids

Complete inventory questions appropriate to structure, if no embankment, as in a pit pond, show NA.

EARTHEN STRUCTURAL REVIEW			
If any boxes checked "YES"; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in <b>REPORT</b> section.			
SITE INVENTORY QUESTION	YES	NO	NA
1. Embankment Interior and liner erosion observed?		/	
a. Due to wave action?			
b. In vicinity of waste inlet structure?			
c. Due to erosion from rainfall?			
d. Near agitation equipment access points?			
2. Pond was constructed <u>with</u> a liner?			/
a. Erosion of liner material?			
b. Damaged material (holes, tears, seams)?			
c. Damage from pressure under liner (slumps, bulges, boils, whales)?			
3. Signs of embankment damage?			
a. Due to burrowing animals?		X	
b. Presence of trees or woody vegetation?		X	
c. Presence of large weeds?		X	
d. Evidence of overtopping of embankment?		X	
e. Evidence of soil erosion or gully on embankment?		X	
f. Evidence of cracks in embankment soils?		X	
g. Damp, soft, or slumping areas on berm?		X	
h. Seepage near bottom of berm slope?		X	
i. Seepage around pipes thru berm?		X	

COMMENTS:

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AGID: 5375

FARM NAME: GREG SMIT DAIRY

LAGOON ID: 5375-2

Lat: 48.971120

Long: -122.518077

OPERATION AND MAINTENANCE			
If any boxes checked "NO"; make notes of location and identify O & M task to improve management. in REPORT section			
SITE INVENTORY QUESTION	YES	NO	NA
1. Is there a permanent liquid level marker available to measure depth of pond?		<input checked="" type="checkbox"/>	
a. Is liquid level marker visible?		<input checked="" type="checkbox"/>	
b. Is storage capacity available for freeboard when pond is full?		<input checked="" type="checkbox"/>	
2. Are manure pump and transfer pipes functioning?		<input checked="" type="checkbox"/>	
3. Are recycling pumps and transfer pipes functioning?		<input checked="" type="checkbox"/>	
4. Is pond overflow pipe/structure clear and unobstructed?		<input checked="" type="checkbox"/>	
<b>CLEAN WATER DIVERSION</b>			
5. Perimeter drains plugged or blocked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. All roof water or clean runoff is diverted from storage?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Diversions/waterways maintained?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VISUAL APPEARANCE AND SAFETY</b>			
8. Site neat and recently mowed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Waste storage pond access fenced and properly marked?		<input checked="" type="checkbox"/>	
<b>O &amp; M ITEMS FOR ODOR AND AIR QUALITY</b>			
10. Crust of solids on lagoon?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Solids managed to <u>prevent</u> plants growing on crust?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12. Anaerobic lagoon is purple/pink?		<input checked="" type="checkbox"/>	
13. Actively bubbling?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14. Inlet pipes submerged?		<input checked="" type="checkbox"/>	
15. Downwind odor from WSP is: <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Unbearable			

COMMENTS:

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**B. Summarize review for structural data evaluation**

Complete the information below based on the original construction plans and/or current site inventory with existing site survey data collected.

ORIGINAL WASTE STORAGE POND DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE ORIGINAL WASTE STORAGE POND COMPLETED: \_\_\_\_\_

LIST THE DESIGN CRITERIA:	CURRENT CONDITIONS	NRCS design criteria at time of installation or last modification
1. Storage capacity at overflow - or crest elevation if no spillway.		Less than 10 acre-feet for all but dam safety permitted ponds
2. Footprint - inside top - LENGTH		
4. Footprint - inside top - WIDTH		
5. Embankment - Inside SS	2:1	> 2H:1V
6. Embankment - Outside SS	4:1	> 2H:1V
7. Embankment - Top Width	12	
8. Embankment - Maximum Fill Height	10	
9. Maximum Excavation Depth	10	
10. Total POND Depth	0	
11. Circle liner type or NA: <input checked="" type="checkbox"/> Compacted Clay <input type="checkbox"/> Flexible Membrane <input type="checkbox"/> Bentonite Amendment <input type="checkbox"/> Other <input type="checkbox"/> NA		
12. Inlet type and location: Pipe, Flume, Scrape/slab, Overflow 'T', Other		
13. Outlet ramp slope and condition: none, earthen, gravel, concrete, other		
14. Pump/agitation site condition		
15. Distance to nearest well/water depth in well in feet		
16. Failure impacts: Farm Building, Homes, Roads, Water Coursed		
17. Emptying feature is provided to protect against accidental release. (yes/no) if yes please describe in notes.		
18. Distance to nearest home/dwelling		
19. Distance to nearest water course		

COMMENTS:

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AGID: 5375 FARM NAME: GREG SMIT DAIRY

Does it appear that the WSP was designed by NRCS or met the NRCS design criteria in place at the time it was installed or last modified?

YES  NO

C. Does it appear that the WSP been structurally modified?

YES  NO ➤ If yes complete section below.

Add any additional details of construction or description of the modified structure for accurate representation of the project.

LANDOWNER/FARM NAME:

Was the WSP modification designed? CIRCLE ONE: YES NO NA

If yes, list: Designer \_\_\_\_\_ Date \_\_\_\_\_

(1) Date of modification construction? \_\_\_\_\_

(2) Description of structural modification: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) Describe impact of modification on structural integrity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(4) Describe impact of apparent modification on potential maximum depth of liquid waste stored in the existing waste storage pond: : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Attach photos that demonstrate findings
- Include copies of original design if available
- List other data available such as
  - design storm volume data
  - site soil investigation report
  - current site survey data

AGID: 5375

FARM NAME: **GREG SMIT DAIRY**

**Notes, drawings etc**