

SURFACE IMPOUNDMENTS AND TANKS Checklist for Review of Solid Waste Permit Application per WAC 173-350-330

Name of Applicant:	Name of Fa	cility:		
Permit # assigned by Health Department:	Date Received:			
Lead Agency Reviewer	Determination of Compliance with:			
Name:	The Site or Facility:			
Phone:	meets all solid waste, air and other applicable			
i none.	laws and regulations			angiya galid
Signature:	conforms with the approved comprehensive solid waste handling plan			lensive solid
	complies with zoning requirements (JHD only)			JHD only)
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□ Location requirements	Location	Complete	Meets	Date &
WAC 173-350-330(2)	of material		Requirements	Initials of
Surface impoundments - shall not be located in				Reviewer)
unstable areas unless the owner or operator demonstrates that engineering measures have been				
incorporated in the facility's design to ensure that				
the integrity of the liners, monitoring system and				
structural components will not be disrupted.				
Tanks - there are no specific location standards for tanks subject to this chapter; however tanks must				
meet the requirements provided under WAC 173-				
350-040(5).				
Agency Comments:				
Design Standards	Location	Complete	Meets	Date &
WAC 173-350-330(3)	of material		Requirements	Initials of Reviewer)
Surface Impoundments (3)(a):				
 Pond capacity determined by volume calculations based on the facility design, 				
monthly water balance and precipitation data.				
• Liner consists of a minimum 30-mil thickness				
geomembrane overlying a structurally stable				
foundation to support the liners and the contents of the impoundment. (HDPE				
geomembranes used as primary liners or leak				
detection liners shall be at least 60-mil thick to				
allow for proper welding.) Or the JHD has				
approved alternative (3)(a)(i)				

•	Ground water monitoring system complies with		
	the requirements of WAC 173-350-500 or a		
	leak detection layer. If a leak detection layer is		
	used, it shall consist of an appropriate drainage		
	layer underlain by a geomembrane of at least		
	30-mil thickness (3)(a)(ii)		
•	Embankments and slopes designed to maintain		
	structural integrity under conditions of a		
	leaking liner and capable of withstanding		
	erosion from wave action, overfilling, or		
	precipitation(3)(a)(iii)		
•	Freeboard equal to or greater than eighteen		
	inches to provide protection against wave		
	action, overfilling, or precipitation. Or the		
	JHD has reduced the freeboard requirement		
	provided that other specified engineering		
	controls are in place which prevent overtopping		
	(3)(a)(iv)		
•	If constructed with a single geomembrane liner,		
	the liner shall be tested using an electrical leak		
	location evaluation capable of detecting a hole		
	3 millimeters in its longest dimension or other		
	equivalent postconstruction test method prior to		
	being placed in service. (Part of construction		
	record drawings) $(3)(a)(v)$		
	Include an analysis of the surface under the		
•	stresses expected during operations		
	Evidence that surface impoundments that have		
•	the potential to impound more than ten-acre		
	feet (three million two hundred fifty-nine		
	thousand gallons) of liquid measured from the		
	top of the embankment and which would be		
	released by a failure of the containment		
	embankment have been reviewed and approved		
	by the dam safety section of the department $(2)(x)(x)$		
T	$(3)(a)(vi) \qquad NA \square$		
18	nks (3)(b):	 	
•	Evidence that tanks and ancillary equipment		
	are tested for tightness using a method		
	acceptable to the JHD prior to being covered,		
	enclosed or placed in use. If a tank is found		
	not to be tight, all repairs necessary to remedy		
	the leak(s) in the system shall be performed		
	and verified to the satisfaction of the JHD prior		
	to the tank being covered or placed in use		
	(3)(b)(i)		
•	Below ground tanks shall be designed to resist		
	buoyant forces in areas of high ground water		
	and shall either be: (A) Retested for tightness at		
	a minimum of once every two years; or (B)		
	Equipped with a leak detection system capable		
	of detecting a release from the tank (3)(b)(ii)		

• Evidence for tanks or components in which the external shell of a metal tank or any metal component will be in contact with the soil or water, that a determination was made by a corrosion expert of the type and degree of external corrosion protection that is needed to ensure the integrity of the tank during its operating life (3)(b)(iii)				
• Above ground tanks equipped with secondary containment constructed of, or lined with, materials compatible with the waste being stored and capable of containing the volume of the largest tank within its boundary plus the precipitation from the twenty-five-year storm event as defined in WAC 173-350-100 (3)(b)(iv)				
• Areas used to load or unload tanks shall be designed to contain spills, drippage and accidental releases during loading and unloading of vessels (3)(b)(v)				
• Tanks and piping shall be protected from impact by vehicles or equipment through use of curbing, grade separation, bollards or other appropriate means (3)(b)(vi)				
• Tanks shall be structurally suited for the proposed use (3)(b)(vii)				
 Tanks, valves, fittings and ancillary piping shall be protected from failure caused by freezing (3)(b)(viii) 				
Agency Comments:	Location	Complete	Meets	Date &
WAC 173-350-330(4)(e)	of material		Requirements	Initials of Reviewer)
Describes the types of solid wastes to be handled at the facility $(4)(e)(i)$				
Describes how solid wastes are to be handled on- site during the facility's active life (4)(e)(ii)				
Describes how equipment, structures and other systems are to be inspected and maintained, including the frequency of inspection and inspection logs, including (4)(e)(iii)				
The ground water monitoring system NA □				
• The overfilling prevention equipment, including details of filling and emptying techniques				
• The liners and embankments, tank piping and secondary containment				
Safety and emergency plans (4)(e)(iv)				
Forms used to record volumes or weights (4)(e)(v)				

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Other such details to demonstrate that the facility				
will be operated in accordance with subsection 4				
and as required by the JHD (4)(e)(vi)				
Agency Comments:				
Ground Water Monitoring	Location	Complete	Meets	Date &
8	of material		Requirements	Initials of
Requirements <i>WAC 173-350-330(5)</i>				Reviewer)
Surface impoundments not equipped with a leak				
detection layer are subject to the ground water				
monitoring requirements of WAC 173-350-500				
Surface impoundments equipped with a leak				
detection layer and tanks are not subject to the				
ground water monitoring requirements of this				
chapter however, they must meet the requirements				
provided under WAC 173-350-040				
Agency Comments:				
Agency comments.				
□ Closure plan	Location of	Complete	Meets Requirements	Date &
-	Location of material	Complete	Meets Requirements	Initials of
WAC 173-350-330(6)(b)		Complete		
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