

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL

Reg Ent Name : _____

Date : _____

Add ID _____

Investigator Name _____

Item No.	Description	Answer	Citations	Notes
	SECTION A: GENERAL PROHIBITIONS AND PLAN:			
1	Is the site operated in such a manner as to prevent:			
1A	A discharge of other waste into or adjacent to any water in the state which in itself or in conjunction with any other discharge or activity causes, continues to cause, or will cause pollution of any of the water in the state?		330.15(a)(1)	
1B	The creation and maintenance of a nuisance?		330.15(a)(2)	
1C	The endangerment of human health and welfare or the environment?		330.15(a)(3)	
1D	A person may not cause, suffer, allow or permit dumping of municipal solid waste without the written authorization of the commission?		330.15(c)	
1E	Open burning?		330.15(d)	
1F	Is waste(s) prohibited from disposal in ANY MSW facility?		330.15(e)(2)(B) 330.15(e)(2)(A) 330.15(e)(2) 330.15(e)(1)(B) 330.15(e)(1)(A) 330.15(e)(1) 330.15(e) 330.15(e)(5) 330.15(e)(3) 330.15(e)(9) 330.15(e)(8) 330.15(e)(7) 330.15(e)(6)(B)(iii) 330.15(e)(4) 330.15(e)(6) 330.15(e)(6)(A) 330.15(e)(6)(B) 330.15(e)(6)(B)(i) 330.15(e)(6)(B)(ii)	
1G	The drilling of any test borings, for any reason, through previously deposited waste or cover material?		330.15(g)	
2	Is the approved landfill method listed in the Site Development Plan (SDP) being followed? (Trench, aerial fill or combination)		330.63(d)(4)(B)	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

3	Has the owner or operator maintained a source of earthen material in such a manner that it is available at all times to extinguish any fires to cover the entire working face or active disposal area? If not, has an alternate method been approved, and is it being followed?		330.129	
4	Is access controlled by means of artificial barriers, natural barriers, or a combination of both, appropriate to protect human health and safety and the environment?		330.131	
	SECTION B: UNLOADING OF WASTE AND WASTE SCREENING			
5	Is the unloading of solid waste confined to as small an area as practical as specified in the SOP? Is a trained attendant provided at all times to monitor all incoming loads of waste? Are appropriate signs used to indicate where vehicles are to unload? Are forced access lanes used for the prevention of indiscriminate dumping?		330.133(a)	
6	Has waste been unloaded in authorized areas only?		330.133(b)	
6A	Has unloading of any of the prohibited wastes listed in 330.15(e) been allowed? Are prohibited wastes returned to the transporter or generator of which is otherwise properly managed by the landfill?		330.133(c)	
7	Type 4 / Are only brush and C&D wastes and rubbish (trash) that are free of putrescible and household waste being accepted?		330.133(e)	
8	Type 4 / Does the facility follow a written procedure to ensure that putrescible wastes are not accepted?		330.133(f)(1)	
8A	Type 4 / Does the facility retain and follow a written procedure on site for the removal of any putrescible wastes and other prohibited wastes ? Are all such wastes removed from the working face immediately and returned to the offending transporter's vehicle or placed in suitable collection bins? If placed in collection bins, are bins retained at the landfill for longer than 24 hours?		330.133(f)(2)	
9	Type 4 / If waste is received in completely enclosed containers or enclosed vehicles, have the conditions 330.169 of this title been met?		330.133(g)	
10	Type 4 / Are large conspicuous warning signs posted at all entrances to the site stating that putrescible and household wastes are not accepted and stating the landfill's requirements for transporters?		330.133(h)	
	SECTION C: OPERATING HOURS, SIGNS, WINDBLOWN WASTE AND BUFFER ZONES			
11	Are the hours of operation between the hours of 7 a.m. and 7 p.m., unless otherwise approved in the permit? If permit specific, is the operation as per the approved hours?		330.135(a) 330.135(b) 330.135(c) 330.135(d)	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

12	Is a site sign conspicuously displayed at all entrances to the site through which wastes are received, measuring at least four feet by four feet with letters at least three inches in height stating the type of site, the hours and days of operation, and the permit number or site number?		330.137	
13	Is windblown material and litter collected and returned to the active disposal area or working face as necessary to minimize unhealthy, unsafe, or unsightly conditions? Is windblown waste and litter at the working face controlled by engineering methods or measures as specified in the SOP?		330.139 330.139(1)	
14	Is litter that is scattered throughout the site, along fences and access roads, and at the gate due to wind or result of waste falling from vehicles picked up once a day on the days the facility is in operation and properly managed?		330.139(2)	
15	Are easements protected by allowing no solid waste unloading, storage, disposal, or processing operations within any easement, buffer zone, or right-of-way that crosses the site? Is solid waste disposal prevented from occurring within 25 feet of the center line of any utility line or pipeline easement, unless otherwise authorized by the executive director?		330.141(a)	
15A	Are all pipeline and utility easements clearly marked with posts that extend at least six feet above ground level, spaced at intervals of no greater than 300 feet?		330.141(a)	
SECTION D: LANDFILL MARKERS				
16	Are all required landfill markers and benchmarks maintained so that they are visible during operating hours? Are records maintained of monthly marker inspections? Are markers that are removed or destroyed shall be replaced within 15 days of the removal or destruction? Are all markers shall be repainted as necessary to retain visibility?		330.143(a)	
17	Are all required landfill markers posts extending at least six feet above ground level? Are they obscured by vegetation? Are sufficient intermediate markers installed to show the required boundary?		330.143(b) 330.143(b)(1)	
18	Are site boundary markers color coded black?		330.143(b)(1)(A)	
18A	Placed at each corner of the site and along each boundary line at intervals no greater than 300 feet?		330.143(b)(2)	
19	Are 50-foot buffer markers color coded yellow?		330.143(b)(1)(B)	
19A	Placed along each buffer zone boundary at all corners and between corners at intervals of 300 feet.		330.143(b)(3)	
20	Are easements and rights-of-way markers color coded green?		330.143(b)(1)(C)	
20A	Placed along the centerline of an easement and along the boundary of a right-of-way at each corner within the site and at the intersection of the site boundary?		330.143(b)(4)	
21	Are landfill grid system markers color coded white?		330.143(b)(1)(D)	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

21A	Placed to encompass at least the area expected to be filled within the next three-year period? Placed no greater than 100 feet apart measured along perpendicular lines? Are intermediate markers installed where markers cannot be seen from opposite boundaries?		330.143(b)(5)	
22	Are SL or FML markers color coded red and placed so that all areas for which a SLER or FMLER has been submitted can be readily determined?		330.143(b)(1)(E) 330.143(b)(6)	
22A	Are SL or FML markers located so that they are not destroyed during operations until they extend into the next constructed area? Are markers tied into the landfill grid system and reported on each SLER or FMLER submitted? Have markers been placed inside constructed areas?		330.143(b)(6)	
23	Are 100 year flood markers color coded blue?		330.143(b)(1)(F)	
23A	Are they installed for any area within a solid waste disposal facility that is subject to flooding prior to the construction of flood protection levees and are they placed not more than 300 feet apart or closer if necessary to retain visual continuity?		330.143(b)(7)	
24	Are flood protection levees designed and constructed to provide protection from a 100-year frequency flood?		330.307(a) 330.307(b)	
25	Is a permanent benchmark established at the site in an area of the site that is readily accessible and will not be used for disposal? A bronze survey marker set in concrete with the benchmark elevation and survey date stamped on it?		330.143(b)(8)	
	SECTION E: MISCELLANEOUS OPERATING PROCEDURES			
26	Has the site owner or operator taken steps to ensure that vehicles hauling waste to the site are enclosed or provided with a tarpaulin, net, or other means to properly secure the load in order to prevent the escape of any part of the load by blowing or spilling?		330.145	
27	Has the owner or operator cleaned up waste materials spilled along and within the right-of-way of public access roads serving the site for a distance of two miles in either direction from any entrances used for the delivery of waste to the site?		330.145	
28	Are large, heavy, or bulky items, which cannot be incorporated in the regular spreading, compaction, and covering operations, placed in an area designated as a large-item salvage area and removed from the site often enough to prevent these items from becoming a nuisance and to preclude the discharge of any pollutants from the area?		330.147(a)	
29	Are appropriate steps taken to prevent and control on-site populations of disease vectors using proper compaction and daily cover procedures, and the use of other approved methods when needed?		330.151	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

30	Are all-weather roads provided within the site to the unloading area(s) designated for wet-weather operation and has the tracking of mud and trash onto public roadways from the site been minimized?		330.153(a)	
31	Is dust from on-site and other access roadways controlled to prevent a nuisance to surrounding areas by a water source and necessary equipment or other means of dust control?		330.153(b)	
32	Are all on-site and other access roadways maintained on a regular basis to minimize depressions, ruts, and potholes?		330.153(c)	
33	Are salvaged items removed from the site often enough to prevent public health nuisances and to preclude the discharge of any pollutants from the area, and to prevent an excessive accumulation of the material at the site.		330.155	
33A	Are Class I industrial and other special wastes received at the disposal facility prevented from being salvaged? Are Pesticide, fungicide, rodenticide, and herbicide containers prevented from being salvaged unless being salvaged through a state-supported recycling program?		330.155	
34	Is scavenging prohibited?		330.155	
35	Is solid waste spread and compacted by repeated passages of suitable compaction equipment such that each layer of solid waste is thoroughly compacted?		330.163	
SECTION F: WELLS				
36	Did the facility operator provide written notification to the executive director of the location of existing or abandoned water wells situated within the facility upon discovery during the course of facility development or within 30 days of such a discovery? Did this provide the executive director with and written certification that such wells have been capped, plugged and closed in accordance with all applicable rules and regulations of the commission or other state agency?		330.161(a)	
36A	Do all water wells used for supply demonstrate well design and installation that will prevent cross-contamination from the waste management unit.		330.161(a)	
36B	Did the facility operator provide written notice to the ED of the locations of any on-site crude oil, natural gas or other mineral recovery wells within 30 days of discovery? Did the owner/operator provide written certification of the proper capping, plugging and closure of these wells (except certain producing wells) within 30 days of plugging?		330.161(b)	
36C	Have any water or other type of wells been plugged and closed in accordance with all applicable rules and regulations of the commission or other state agencies?		330.161(c)	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

36D	Has the facility operator or owner submitted for executive director approval a permit modification application identifying any proposed changes to the liner installation plan as a result of any well abandonment.		330.161(d)	
	SECTION G: DRAINAGE CONTROLS			
37	Does the active portion (working face) of the landfill have a run-on control system constructed and maintained to prevent flow of stormwater during a peak discharge from at least a 25-year storm? (This may be permit specific)		330.305(b)	
38	Does the active portion (working face) of the landfill have a run-off management system constructed and maintained to collect and control at least the water volume resulting from a 24-hour, 25-year storm?		330.305(c)	
39	Are dikes, embankments, drainage structures, or diversion channels sized and graded to handle the design run-off? Are the slopes of the sides and toe graded in such a manner so as to minimize the potential for erosion?		330.305(e)	
	SECTION H: LANDFILL COVER			
40	Are daily cover requirements being met as follows:			
40A	Are six-inches of well-compacted clean earthen material applied at Type I landfills at the end of each operating day unless other methods have been approved by the commission? Are landfills that operate on a 24-hour basis applying six-inches of well-compacted clean earthen material to the working face or active disposal area at least once every 24 hours?		330.165(a)	
40B	Are Type IV facilities applying six-inches of well-compacted clean earthen material no less than weekly, unless the commission approves another schedule?		330.165(b)	
41	If alternative material daily cover (ADC) is allowed by permit, is it applied as per the approved plan?		330.165(d)(2) 330.165(d) 330.165(d)(3) 330.165(d)(4) 330.165(d)(4)(A) 330.165(d)(4)(B) 330.165(d)(5) 330.165(d)(6)	
42	Have all areas that have received waste but will be inactive for longer than 180 days been provided with intermediate cover? (An additional six-inches of well-compacted clean earthen material for a total of 12 inches of cover)		330.165(c)	
43	If final cover has been applied, does it meet the requirements of the approved site closure plan?		330.165(f)	
44	Has erosion of final or intermediate cover been repaired promptly by restoring the cover material, grading, compacting, and seeding it as necessary?		330.165(g)	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

45	Is a cover application log on site and does it contain the following information for daily, intermediate and alternate daily cover: The date cover (no exposed waste) was accomplished? How it was accomplished? The last area covered?		330.165(h)	
46	For final cover, does this log specify the area covered? The date and thickness of cover that was applied? Is each entry certified by the signature of the on-site supervisor that the work was accomplished as so stated in the log?		330.165(h)	
SECTION I: SPECIAL AND INDUSTRIAL WASTE				
47	Are random inspections performed of incoming loads for the detection and prevention of the disposal of regulated hazardous and PCB waste? Are the approved procedures being followed? §330.127(5)(A-E)		330.127(5)(D) 330.127(5)(E) 330.127(5)(A) 330.127(5)(B) 330.127(5)(C)	
48	Does the Type IV or Type IVAE landfill accept special wastes in a manner not consistent with 330.5(a)(2) or with the waste acceptance plan?		330.171(a)	
49	Does the landfill accept and/or dispose of any special waste not specifically identified in 330.171(c) or 330.171(d) or 330.173? If so, was prior written approval received from the executive director?		330.171(b)	
50	Are used oil filters from internal combustion engines intentionally and knowingly accepted for disposal at the landfill except as provided in 330.171(d)(1)-(2)?		330.171(d)	
51	Has Class I Industrial Waste (except asbestos containing waste authorized under 330.173(c)) been disposed in a Type IAE landfill unit?		330.173(a)	
52	Is Class I Industrial Waste accepted without prior written approval from the executive director and specific authorization in the permit?		330.173(b)	
53	Does the Type I or Type IAE landfill accept Class 1 Industrial Waste in excess of 20% of the total waste accepted the current or previous year?		330.173(e)	
54	Are all shipments of Class I waste accompanied by a manifest as required? Does the facility operator accept or sign of shipments of Class I waste for which authorization has not been granted or authorized by permit? Does the operator retain a copy of the manifest for three year or longer if extended automatically due to any enforcement action?		330.173(h)	
55	Is Class 2 waste accepted at a Type IV or Type IVAE landfill in a manner inconsistent with 330.5(a)(2) and the waste acceptance plan?		330.173(i)	
SECTION J: MISCELLANEOUS				
56	Has the ponding of water over waste, regardless of its origin, been prevented? If not, has it been eliminated as quickly as possible and the area filled in and regraded within seven days of the occurrence?		330.167	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL (Cont)

57	Does the site operating plan have an odor management plan that addresses the sources of odors and includes general instructions to control odors or sources of odors? Do the plans include identification of wastes that require special attention such as septage, grease trap waste, dead animals, and leachate?		330.149	
58	Has the owner or operator described how the facility will be designed to protect endangered species?		330.63(b)(5)	
59	Prior to the disposal of solid waste in any trench, or on any area, excavation, or unprotected surface, has a SLER and a FMLER been submitted and approved?		330.341(a) 330.341(b)	
60	Has the surface of a constructed soil liner been covered with a layer of solid waste within a period of six months? If not, have surfaces not covered been checked by the SLER evaluator, and a letter report submitted on his findings to the executive director?		330.341(d)	
61	Is the site operated in such a manner as to prevent any activity which in itself or in conjunction with any other discharge or activity causes, continues to cause, or will cause pollution of any of the water in the state?		26.121(a)(3)	

CHECKLIST WORKSHEET

MSW TYPE 1-4 LANDFILL