

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2

Regulating Entity Name

Date:

Additional I D:

Investigator Name:

Item Number	Description	Answer	Citations	Notes
	SECTION J: Detection Monitoring Program			
Item Number 71	Description Does the monitoring program include the constituents listed in 30 TAC 330.419(a), unless the permit lists an alternate list of constituents, or the executive director has deleted constituents or established an alternate list of constituents?			
			330.419(a)	
Item Number 72	Description Has monitoring been conducted at least semiannually in accordance with 30 TAC 330.407(a) or at an alternative frequency as specified by the executive director in accordance with 30 TAC 330.407(a)(2)?			
			330.407(a)(2)	
Item Number 73	Description Were a minimum of four statistically independent samples collected and analyzed from each background and each point of compliance well (independence achieved by purging each well at least three volumes, or to dryness, before each of the four samples is collected)?			
			330.407(a)(1)	
Item Number 74	Description Was at least one sample collected from each background and each point of compliance well during each subsequent sampling event?			
			330.407(a)(1)	
Item Number 75	Description Has the owner or operator submitted an annual detection monitoring report containing the results of the analyses to the executive director not later than 90 days after the facility's last groundwater monitoring event in a calendar year?			
			330.407(c)	
Item Number 76	Description Has the owner or operator made a determination whether there has been a statistically significant difference over background for any tested constituent no later than 60 days after each sampling event?			
			330.407(b)	
Item Number 77	Description If there was a statistically significant change from background of any tested constituent in any monitoring well, did the owner or operator notify the executive director (and any required local agencies) of the change in writing within 14 days of the determination?			
			330.407(b)	
Item Number 78	Description Has a statistically significant change from background of any tested constituent at any monitoring well has occurred? If so, at least one of the following should be applicable. Indicate appropriately below. Include a brief description of the statistically significant change and the owner or operator's response in the investigation report comments.			
Item Number 78A	Description Did the owner or operator immediately place a notice in the operating record describing the difference and establish an assessment monitoring program meeting the requirements of 30 TAC 330.409 (relating to Assessment Monitoring Program) within 90 days of the date of the notice to the executive director required under 30 TAC 330.407(b)?			

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

		Answer	Citations	330.407(b)(1)	Notes
Item Number 78B	Description	Did the owner or operator submit the results of resampling as appropriate for the statistical method being used within 60 days of determining the statistically significant difference. (The resample data may be used to statistically confirm or disprove the determination.)			
		Answer	Citations	330.407(b)(2)	Notes
Item Number 78C	Description	Did the owner or operator document that a source other than a landfill unit caused the contamination or that the statistically significant increase (SSI) resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality and submit a report prepared and certified by a qualified groundwater scientist to the executive director and any local pollution agency that requested to be notified within 90 days of determining a SSI?			
		Answer	Citations	330.407(b)(3)	Notes
Item Number 78D	Description	Did the owner or operator not make a demonstration under 30 TAC 330.407(b)(3) satisfactory to the executive director, and subsequently initiate an assessment monitoring program?			
		Answer	Citations	330.407(b)(4)	Notes
Item Number	Description	SECTION K: Assessment Monitoring Program			
		Answer	Citations		Notes
Item Number 79	Description	Did the owner or operator sample and analyze the ground water monitoring system within 90 days of determining that a statistically significant difference has occurred and at least annually (or as otherwise specified by the executive director) thereafter?			
		Answer	Citations	330.409(b)	Notes
Item Number 80	Description	Were samples analyzed for the assessment constituents listed in Appendix II to 40 CFR Part 258?			
		Answer	Citations	330.409(b)	Notes
Item Number 81	Description	Was at least one sample collected from each well and analyzed for the assessment constituents during each new sampling event?			
		Answer	Citations	330.409(b)	Notes
Item Number 82	Description	If any new assessment constituents were detected in any of the point of compliance wells, were a minimum of four statistically independent samples from each background and point of compliance well collected and analyzed to establish background levels for the constituent(s) or a subset of wells and/or a limited list of assessment constituents as specified by the executive director?			
		Answer	Citations	330.409(b)	Notes
Item Number 83	Description	Has the owner or operator submitted to the executive director the results from the initial and subsequent sampling events and placed them in the operating record within 60 days after each sampling event?			
		Answer	Citations	330.409(d)	Notes
Item Number 84	Description	Has the owner or operator resampled all wells (or the wells specified by the executive director) and analyzed the samples for all assessment constituents (or the assessment constituents specified by the executive director) within 90 days of submittal of the results from a sampling event and on at least a semiannual basis thereafter (or in accordance with an alternative schedule as specified by the executive director)?			
		Answer	Citations	330.409(d)(1)	Notes
Item Number 85	Description	Has the owner or operator submitted to the executive director the results from the resampling events and placed them in the operating record within 60 days after each sampling event?			

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

	Answer	Citations		Notes
Item Number 86	Description	Has the owner or operator established background concentrations for any new Appendix II constituents?	330.409(d)(1)	
	Answer		330.409(d)(2)	Notes
Item Number 87	Description	Has the owner or operator established ground water protection standards for any constituents detected during the assessment sampling or resampling events, in accordance with 30 TAC 330.409(h) through (J)?		
	Answer		330.409(d)(3)	Notes
Item Number 88	Description	Has the owner or operator determined whether any 40 CFR Part 258, Appendix II constituents were detected at statistically significant levels above the ground water protection standard within 60 days after each sampling event?		
	Answer		330.409(g)	Notes
Item Number 89	Description	Were one or more assessment constituents detected at statistically significant levels above the ground water protection standard in any sampling event? If so, answer the following:		
	Answer			Notes
Item Number 89A	Description	Did the owner or operator, within 60 days of the sampling event, notify the executive director and appropriate local government officials in writing within seven days of this determination?		
	Answer		330.409(g)(1)(Notes
Item Number 89B	Description	Did the owner or operator characterize the nature and extent of the release by installing additional monitoring wells as necessary?		
	Answer		330.409(g)(1)(Notes
Item Number 89C	Description	Did the owner or operator install at least one additional monitoring well between the monitoring well within the statistically significant level and the next adjacent wells along the point of compliance before the next sampling event and sample these wells in accordance with 30 TAC 330.409(d)(1)?		
	Answer		330.409(g)(1)(Notes
Item Number 89D	Description	Did the owner or operator notify in writing all persons who own or occupy the land that directly overlies any part of the plume of contamination if contaminants have migrated offsite as indicated by sampling of wells in accordance with 30 TAC 330.409(d)(1)?		
	Answer		330.409(g)(1)(Notes
Item Number 89E	Description	Did the owner or operator initiate an assessment of corrective measures as required by 30 TAC 330.411 within 90 days of the notice to the executive director? If so, complete Section L, Assessment of Corrective Measures.		
	Answer		330.409(g)(1)(Notes
Item Number	Description	SECTION L: Assessment of Corrective Measures		
	Answer			Notes
Item Number 90	Description	Was the assessment of corrective measures completed, or is it on schedule for completion, within 180 days of initiating the assessment?		
	Answer		330.411(a)	Notes
Item Number 91	Description	Is the owner or operator continuing to monitor in accordance with the assessment monitoring program?		
	Answer		330.411(b)	Notes
Item Number 92	Description	Does the assessment include an analysis of the effectiveness of potential corrective measures in meeting all of the requirements and objectives or the remedies described under 30 TAC 330.413?		
	Answer		330.411(c)	Notes

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

Item Number 93	Description	Does the assessment address performance, reliability, ease of implementation, and potential impacts of appropriate potential remedies, including safety impacts, cross-media impacts, and control of exposure to any residual contamination?	
	Answer	Citations 330.411(c)(1)	Notes
Item Number 94	Description	Does the assessment address time required to begin and complete the remedy?	
	Answer	Citations 330.411(c)(2)	Notes
Item Number 95	Description	Does the assessment address costs of remedy implementation?	
	Answer	Citations 330.411(c)(3)	Notes
Item Number 96	Description	Does the assessment include institutional requirements such as state or local permit requirements or other environmental or public health requirements that may substantially effect implementation of the remedy or remedies?	
	Answer	Citations 330.411(d)	Notes
Item Number 97	Description	Did the owner or operator arrange for a public meeting and provide notice in accordance with 30 TAC 305.501(e)(3) in order to discuss the results of the corrective measures assessment?	
	Answer	Citations 330.411(d)	Notes
Item Number	Description	SECTION M: Selection of Remedy	
	Answer	Citations	Notes
Item Number 98	Description	If the assessment has been completed, did the owner or operator submit a remedy selection report to the executive director for review and approval and place it in the operating record within 30 days of completion of the assessment?	
	Answer	Citations 330.413(a)	Notes
Item Number	Description	SECTION N: Implementation of the Corrective Action Program	
	Answer	Citations	Notes
Item Number	Description	Unless the executive director has determined that remediation of a release of an assessment constituent from a landfill unit is not necessary in accordance with 30 TAC 30.413(e), or that a remedy has been completed in accordance with 330.415(f) and (g), complete Section N, Implementation of the Corrective Action Program.	
	Answer	Citations	Notes
Item Number 99	Description	If a schedule has been established in accordance with 30 TAC 330.413(d), has the owner or operator established and implemented a corrective action ground water monitoring program?	
	Answer	Citations 330.415(a)(1)	Notes
Item Number 100	Description	Does the corrective action ground water monitoring program at least meet the requirements of an assessment monitoring program as specified under 30 TAC 330.409?	
	Answer	Citations 330.415(a)(1)(Notes
Item Number 101	Description	Does the corrective action ground water monitoring program indicate the effectiveness of the corrective action remedy?	
	Answer	Citations 330.415(a)(1)(Notes
Item Number 102	Description	Does the corrective action ground water monitoring program demonstrate compliance with the ground water protection standards pursuant to 30 TAC 330.415(f)?	
	Answer	Citations 330.415(a)(1)(Notes
Item Number 103	Description	Has the owner or operator prepared a detailed written cost estimate, in current dollars, of the cost of hiring a third party to perform the corrective action program?	

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

	Answer	Citations	330.509(a)	Notes
Item Number 104	Description	Does the corrective action cost estimate account for the total costs of corrective action activities as described in the corrective action plan for the entire corrective action period?		
	Answer	Citations	330.509(a)(1)	Notes
Item Number 105	Description	Was the cost estimate for financial assurance submitted with the corrective action plan?		
	Answer	Citations	330.509(a)	Notes
Item Number 106	Description	If changes in the corrective action program or unit conditions have resulted in an increase in the maximum costs of corrective action, has the owner or operator increased the corrective action cost estimate and the amount of financial assurance provided?		
	Answer	Citations	330.509(a)(1)	Notes
Item Number 107	Description	Has the owner or operator established and maintained financial assurance for the costs of the most recent corrective action program in accordance with 30 TAC Chapter 37, Subchapter R?		
	Answer	Citations	330.509(b)	Notes
Item Number 108	Description	If a schedule has been established in accordance with 30 TAC 330.413(d), has the owner or operator implemented the corrective action remedy selected under 30 TAC 330.413?		
	Answer	Citations	330.415(a)(2)	Notes
Item Number 109	Description	If a schedule has been established in accordance with 30 TAC 330.237(d), has the owner or operator taken any interim measures necessary to ensure the protection of human health and the environment?		
	Answer	Citations	330.415(a)(3)	Notes
Item Number 110	Description	If the owner or operator has determined that compliance with the requirements of 30 TAC 330.413(b) are not being achieved through the selected remedy, has the owner or operator implemented other methods or techniques that could practicably achieve compliance with the requirements, unless the owner or operator has determined that the requirements cannot be practically achieved and obtained approval from the executive director in accordance with 30 TAC 330.415(c)?		
	Answer	Citations	330.415(b)	Notes
Item Number 111	Description	If the owner or operator has determined that compliance with the requirements of 30 TAC 330.413(b) cannot be practically achieved with any currently available methods, has the owner or operator presented to the executive director certification by a qualified ground water scientist to that effect?		
	Answer	Citations	330.415(c)(1)	Notes
Item Number 112	Description	If the owner or operator has determined that compliance with the requirements of 30 TAC 330.413(b) cannot be practically achieved with any currently available methods, has the owner or operator implemented alternative measures, with the approval of the executive director, to control exposure of humans or the environment to residual contamination, as necessary to protect human health and the environment?		
	Answer	Citations	330.415(c)(2)	Notes

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

Item Number 113	Description	If the owner or operator has determined that compliance with the requirements of 30 TAC 330.413(b) cannot be practically achieved with any currently available methods, has the owner or operator implemented alternative measures, with the approval of the executive director, for control of the sources of contamination, or for removal or decontamination of equipment, units, devices, or structures that are technically practicable and consistent with the overall objective of the remedy?		
		Answer	Citations	Notes
Item Number 114	Description	If the owner or operator has determined that compliance with the requirements of 30 TAC 330.413(b) cannot be practically achieved with any currently available methods, has the owner or operator placed a copy of all approved alternate measures in the operating record?		
		Answer	Citations	Notes
Item Number 115	Description	Have all solid waste managed in accordance with a remedy required under 330.413 or an interim measure required under 330.413(a)(3) been managed in a manner that is protective of human health and the environment and that complies with applicable RCRA requirements?		
		Answer	Citations	Notes
Item Number 116	Description	Upon implementation of the corrective action program, has the owner or operator submitted an annual corrective action report by March 1st every following year while in corrective action?		
		Answer	Citations	Notes
Item Number 117	Description	Do annual corrective action reports include a contour map of piezometric water levels in the uppermost aquifer?		
		Answer	Citations	Notes