CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2

Reg Ent Name:

Date:

Add ID:

Investigator Name:

Item No	Description	Answer	Citations	Notes
	SECTION J: Detection Monitoring Program	-		
71	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)	
72	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) 330.407(a)	
73	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)	
74	Was at least one sample collected from each background and each point of compliance well during each subsequent sampling event?		330.407(a)(1)	
75	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)	
76	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)	
77	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)	
78	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.			
78A	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)?		330.407(b)(1)	
78B	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.)		330.407(b)(2)	

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

	ROUNDWATER OWN PARTZ (COIL)	
78C	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?	330.407(b)(3)
78D	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?	330.407(b)(4)
	SECTION K: Assessment Monitoring Program	
79	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?	330.409(b) 330.409(c)
80	Were samples analyzed for the assessment constituents listed in Appendix II to 40 CFR Part 258?	330.409(b)
81	Was at least one sample collected from each well and analyzed for the assessment constituents during each new sampling event?	330.409(b)
82	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?	330.409(b)
83	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?	330.409(d)
84	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)?	330.409(d)(1)
85	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?	330.409(d)(1)
86	Has the owner or operator established background concentrations for any new Appendix II constituents?	330.409(d)(2)
87	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)?	330.409(d)(3)
88	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?	330.409(g)

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

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CHECKLIST WORKSHEET

MSW (GROUNDWATER O&M PART 2 (Cont)		
	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.		
99	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?	330.415(a)(1)	
100	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?	330.415(a)(1)(A)	
101	Does the corrective action ground water monitoring program indicate the effectiveness of the corrective action remedy?	330.415(a)(1)(B)	
102	Does the corrective action ground water monitoring program demonstrate compliance with the ground water protection standards pursuant to 30 TAC 330.415(f)?	330.415(a)(1)(C)	
103	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?	330.509(a)	
104	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?	330.509(a)(1)	
105	Was the cost estimate for financial assurance submitted with the corrective action plan?	330.509(a)	
106	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?	330.509(a)(1)	
107	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?	330.509(b)	
108	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?	330.415(a)(2)	
109	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?	330.415(a)(3)	
110	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)?	330.415(b)	

CHECKLIST WORKSHEET

MSW GROUNDWATER O&M PART 2 (Cont)

111	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?	330.415(c)(1)	
112	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?	330.415(c)(2)	
113	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?	330.415(c)(3)	
114	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?	330.415(c)(4)	
115	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?	330.415(d)	
116	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?	330.415(e)	
117	Do annual corrective action reports include a contour map of piezometric water levels in the uppermost aquifer?	330.415(e)(4)	