

Proposed Geotechnical Monitoring Program 2009-2012					
Summary of Instrument Readings Requirements					
Instrument Information			Post-Closure Monitoring Period (2009-2012)		No. of Monitoring Nodes
Instrument Label	Instrument Type	Location	2009 - 2010 Monitoring Frequency	2011 - 2012 Monitoring Frequency	
West Twin Dike					
TC12	Thermocouple	Dike Face	Quarterly	Quarterly	2
TC13A	Thermocouple	Dike Face	Quarterly	Quarterly	5
TC31	Thermocouple	Dike Face	Quarterly	Quarterly	5
TC32	Thermocouple	Dike Face	Quarterly	Quarterly	7
TC33	Thermocouple	Dike Face	Quarterly	Quarterly	7
BGC03-33	Thermistor	Dike Crest	Quarterly	Quarterly	10
BGC03-34	Thermistor	Dike Crest	Quarterly	Quarterly	10
BGC05-09	Thermistor	Dike Crest	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
BGC05-15	Thermistor	Dike Crest	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
BGC05-17	VW Piezo.	Dike Crest	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
Surface Cell					
BGC02-03	Thermistor	Surface Cell	No longer functioning, discontinue monitoring.		N/A
BGC03-07	Thermistor	Surface Cell	Quarterly	Quarterly	9
BGC03-09	Thermistor	Surface Cell	Quarterly	Quarterly	10
BGC03-10	Thermistor	Surface Cell	Quarterly	Quarterly	8
BGC03-11	Thermistor	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	10
Notes:					
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BGC03-12	Vibrating Wire Piezometer	Surface Cell	Quarterly	Quarterly	1
BGC03-14	Vibrating Wire Piezometer	Surface Cell	Quarterly	Quarterly	1
BGC03-15	Thermistor	Surface Cell	Quarterly	Quarterly	10
BGC03-20	Thermistor	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	10
BGC03-21	Thermistor	Surface Cell	Quarterly	Quarterly	10
BGC03-32	Vibrating Wire Piezometer	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC03-35	Vibrating Wire Piezometer	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC03-36	Thermocouple	Surface Cell	Quarterly	Quarterly	5
BGC03-37	Thermistor	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	9
BGC05-05	Thermistor	Surface Cell	Quarterly	Quarterly	12
BGC05-06	VW Piezo.	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-07	VW Piezo.	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-08	Contingency	Surface Cell	-	-	N/A
<b>Surface Cell</b>					
BGC05-10	VW Piezo.	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-11	Monitoring Well	Surface Cell	Once per summer.	Once per summer.	N/A
BGC05-12	Monitoring Well	Surface Cell	Once per summer.	Once per summer.	N/A
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BGC05-13	VW Piezo.	Surface Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-14	Contingency	Surface Cell	-	-	N/A
BGC05-16	Contingency	Surface Cell	None at this time.	None at this time.	N/A
FG-1	Frost Gauge	Surface Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-2	Frost Gauge	Surface Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-3	Frost Gauge	Surface Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-4	Frost Gauge	Surface Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-5	Frost Gauge	Surface Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-6	Frost Gauge	Surface Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
<b>Toe of West Twin Dike</b>					
BGC03-18	Thermocouple	Toe of West Twin Dike	Quarterly	Quarterly	4
BGC03-19	Thermistor	Toe of West Twin Dike	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	8
BGC05-26	Thermistor	Toe of West Twin Dike	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	10
<b>Test Cell</b>					
BGC05-04	Thermistor	Test Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	10
BGC05-18	VW Piezo.	Test Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-19	Thermistor	Test Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
BGC05-20	VW Piezo.	Test Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
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BGC05-21	Monitoring Well	Test Cell	Once per summer.	Once per summer.	N/A
BGC05-22	VW Piezo.	Test Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-23	Monitoring Well	Test Cell	Once per summer.	Once per summer.	N/A
BGC05-24	VW Piezo.	Test Cell	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
BGC05-25	Contingency	Test Cell	-	-	N/A
FG-7	Frost Gauge	Test Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-8	Frost Gauge	Test Cell	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
<b>Test Cell Dike</b>					
BGC02-09	Thermistor	Test Cell Dike	Quarterly	Quarterly	3
BGC03-22	Thermistor	Test Cell Dike	Quarterly	Quarterly	8
BGC05-29	Thermistor	Test Cell Dike	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
<b>Toe of Test Cell Dike</b>					
BGC05-27	Thermistor	Toe of Test Cell Dike	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	10
BGC05-28	VW Piezo.	Toe of Test Cell Dike	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	1
FG-9	Frost Gauge	Toe of Test Cell Dike	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-10	Frost Gauge	Toe of Test Cell Dike	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
<b>Oceanview Pit</b>					
BGC05-01	Thermistor	Oceanview Pit	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
FG-16	Frost Gauge	Oceanview Pit	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
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East Open Pit					
BGC05-02	Thermistor	East Open Pit	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
BGC05-03	Thermistor	East Open Pit	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	12
FG-13	Frost Gauge	East Open Pit	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
FG-14	Frost Gauge	East Open Pit	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
Landfill					
BGC05-30	Thermistor	Landfill	Quarterly/ Bi-weekly June 1 - Sept 15	Quarterly	10
FG-11	Frost Gauge	Landfill	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
Area 14					
TC8	Thermocouple	Area 14	Quarterly	Quarterly	4
FG-15	Frost Gauge	Area 14	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
Upper Dump Pond					
FG-17	Frost Gauge	Upper Dump Pond	Bi-weekly (June 1 - Sept 15)	Once per summer in late August.	N/A
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