Sanitary Disposal Project Name

20xx (Semi-)Annual Water Quality Report
Landfill Unit Name
Permit #XX-SDP-XX-XXP

Site Owner
Site Location

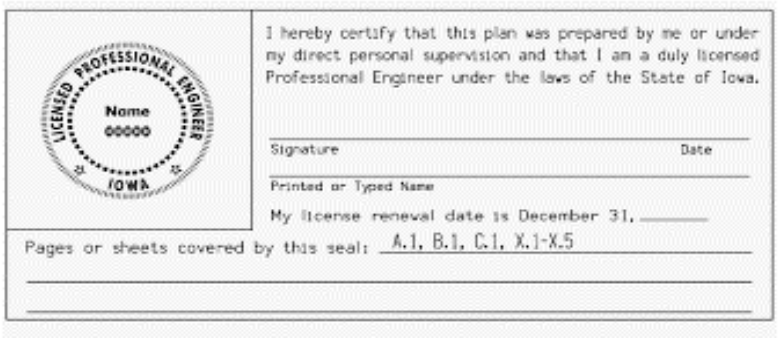
Date

Prepared by:
Entity or Individual
Entity Address
City, Zip Code

Certification

Prepared by: _____ Date:_____

Typed:_____



Certification page **(114.26(8)"d")**

An annual report summarizing the effect of the facility on groundwater and surface water quality shall be submitted to the department each year. The summary is to be prepared by an engineer registered in the state of Iowa.

Period of Report Coverage
(Narrative listing monitoring event dates that this report addresses)

Report Priority
Provide narrative discussion on urgency or lack thereof for a DNR review based on conclusions, recommendations, demonstrations, proposals or requests. Include a review of impact on rules schedule that DNR review time may have. Identify any action or activity that is on hold due to completion of DNR review or comment.

Provide actions and/or permit amendments needed based on this year's results (114.8) (Actions can either be requested by the permit holder or initiated by the DNR). Requests for permit amendments must be submitted in writing to the DNR with supporting documentation and justification.

Site Status and Applicable Rules (see Figure 1-Site Plan)
(this narrative describes the site status as a solid waste landfill, i.e. closed areas, open areas, types of waste accepted, and applicable IAC rules)

Table of Contents

Acronyms/Abbreviations:

AL = Action Level
CL = Control Limit (M+/-2SD)
GWQAP = Groundwater Quality Assessment Plan
LEL = Lower Explosive Limit
M+/-2SD = Mean Plus/Minus Two Standard Deviations
MCL = EPA Maximum Contaminant Level
NC = No Change
RAMP = Remedial Action/Mitigation Plan
RL = Reporting Limit
SS = Statewide Standard
TSS = Total Suspended Solids

The worksheets contain a comment section for the user of this template to further explain results, evaluations, and conclusions. Use additional pages if necessary.

Also included on the bottom of some worksheets *in italics* is the DNR's intended purpose for these worksheets.

Acronyms/ Abbreviations

Site Background History

Comments: Site background consists of a brief history of the site and hydrogeology.

Table 1
Monitoring Program Summary
2015 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Control Limit Exceedances	Total # of Samples in each monitoring program since January 1, 2018		
					Routine	Supplemental	Remedial Action
MW-1	Weathered Till	Background	NC	None	4	0	0
MW-2	Weathered Till	Remedial Action	NC	cis-1,2-DCE Carbon Tetrachloride	0	8	5
MW-3	Weathered Till	Supplemental	Remedial Action	Pb	2	8	8
MW-4	Weathered Till	Supplemental	NC	As, Pb	1	7	0
MW-5	Weathered Till	Routine	NC	None	5	0	0
MW-6	Weathered Till	Supplemental	NC	Benzene, Vinyl Chloride, TCE	1	4	0
MW-7	Weathered Till	Routine	NC	None	3	0	0
MW-8	Weathered Till	Background	NC	None	6	0	0
MW-9	Weathered Till	Remedial Action	NC	Ba, 1,1-Dichloroethylene	1	3	7
MW-10	Upper Limestone	Routine	NC	None	2	0	0
GU-1	Underdrain - Weathered Till	Routine	NC	None	8	0	0
Other monitoring points							
MW 28	Weathered Till	Plume delineation	Supplemental	Benzene	4	6	0
MW 29	Weathered Till	Water Level	NC	None	3	2	1
MW 30	Weathered Till	Remedial Action	NC	Vinyl Chloride	5	2	2
MW 31	Upper Limestone	Water Level	NC	None	2	4	1

Comments: (insert clarifications, deviations to HMSP or notes as needed). Include a discussion on any new monitoring points added or deleted from HMSP and relevant DNR approval or approval status of such changes.

This worksheet;
1) Provides a summary of the monitoring points and in which phase of monitoring they are in,
2) Verifies conformance with the approved HMSP network,
3) Gives a summary of the monitored aquifer,
4) Provides the size of the dataset,
5) Provides a summary of current contaminants above background and whether they exceed a Control Limit
6) States the phase for the next sampling event,
7) Mentions additional site sampling that may be occurring on a temporary basis to achieve a delineation or remedial action goal, and
8) Provides any deviations to current HMSP.

Site Figures

Comments: (Provide a figure for each monitored system [for example upper and lower hydrogeologic strata] within the report or in an appendix and identify them by a Figure #. All figures should contain a legend, scale bar, north arrow, date of topographic survey, limits of waste, permitted boundary and property or legal entitlement boundary).

(Map must contain ground water and leachate elevations (if applicable) for each sampling event and each monitored unit.)

Table 2
Monitoring Program Implementation Schedule
2020 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Monitoring Well	Recent Sampling Dates and Constituents			Upcoming Sampling Dates and Constituents			
	5/13/2018	9/12/2018	4/1/2019	July 2020	October 2020	March 2021	September 2021
MW-1	List A, List B	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-2	List A, List B	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-3	List A, List B	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-4	List A, List B	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-5	N/A - Dry	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-6	List A, List B	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-7	List A, List B	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-8	List A, List B, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS
MW-9	List A, TSS	List A, List B, TSS	List A, List B, TSS	List A, List B, TSS	List A, List B, TSS	List A, List B, TSS	List A, List B, TSS
MW-10	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS	List A, TSS

Comments: (insert clarifications or notes as needed) Explain deviations from schedules listed in rules/permit and reason(s) for deviations.

List A-(list applicable constituents)
List B-(list applicable constituents)

This worksheet tracks compliance with permitted sampling frequencies and required parameters and to aid in scheduling.

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
2015 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Compliance with:	Monitoring Calendar Years						
	2018	2019	2020	2021	2022	2023	2024
567 IAC 114.21(2)"a" high and low water levels (add required frequency)	Completed		Completed		Scheduled		Scheduled
567 IAC 114.21(2)"b" changes in the hydrologic setting and flow paths	Completed		Completed		Scheduled		Scheduled
567 IAC 114.21(2)"c" well depths	Completed	Completed	Completed	Scheduled	Scheduled	Scheduled	Scheduled
567 IAC 114.21(2)"d" in-situ permeability tests	Completed		Completed		Scheduled		Scheduled

Comments: (insert clarifications or notes as needed) Explain deviations from schedules listed in rules/permit and reason(s) for deviations

This worksheet;
1) Summarizes compliance, and
2) Aids in scheduling future tasks.

Table 4
Monitoring Well Maintenance and Performance Summary
2015 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

(includes all wells, underdrains etc.)

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Baseline Permeablitv (cm/s/date)	Current Permeability	
					3/25/2018	8/31/2018			3/25/2018	% Change
MW-1	1251.8	1234.7	22.1	Groundwater Level (ft)	5.35	8.34	1.3	4.40E-05 1/28/2015	4.10E-05	-7%
				Groundwater Elevation (Ft MSL)	1246.45	1243.46				
				Measured Well Depth (ft)	21.2	20.8				
				Submerged screen	Y	Y				
MW-2	1230.8	1218.9	16.9	Groundwater Level (ft)	2.95	4.2	1.7	3.20E-06 1/28/2015	1.10E-06	-66%
				Groundwater Elevation (Ft MSL)	1227.85	1226.6				
				Measured Well Depth (ft)	15.4	15.2				
				Submerged screen	Y	Y				
MW-3	1231.2	1208.9	32.3	Groundwater Level (ft)	3.21	4.84	1.2	7.20E-05 1/28/2015	2.00E-05	-72%
				Groundwater Elevation (Ft MSL)	1227.99	1226.36				
				Measured Well Depth (ft)	31.3	31.1				
				Submerged screen	Y	Y				
MW-4	1238.2	1226.6	21.6	Groundwater Level (ft)	2.75	6.52	4.6	4.50E-05 1/28/2015	1.02E-04	127%
				Groundwater Elevation (Ft MSL)	1235.45	1231.68				
				Measured Well Depth (ft)	18	17				
				Submerged screen	Y	Y				
MW-5	1239	1196.6	52.4	Groundwater Level (ft)	3.35	6.65	1.7	5.20E-05 1/28/2015	5.80E-05	12%
				Groundwater Elevation (Ft MSL)	1235.65	1232.35				
				Measured Well Depth (ft)	51.1	50.7				
				Submerged screen	Y	Y				
MW-6	1215.5	1203.7	21.8	Groundwater Level (ft)	17.1	19.4	4.6	5.40E-06 1/28/2015	7.80E-06	44%
				Groundwater Elevation (Ft MSL)	1198.4	1196.1				
				Measured Well Depth (ft)	17.2	17.3				
				Submerged screen	N	N				
MW-7	1215.8	1174.7	51.2	Groundwater Level (ft)	5.15	4.29	0.3	4.90E-05 1/28/2015	6.60E-05	35%
				Groundwater Elevation (Ft MSL)	1210.65	1211.51				
				Measured Well Depth (ft)	50.9	51.1				
				Submerged screen	Y	Y				
MW-8	1220.2	1209.3	15.9	Groundwater Level (ft)	4.21	6.81	-0.1	2.60E-06 1/28/2015	7.50E-06	188%
				Groundwater Elevation (Ft MSL)	1215.99	1213.39				
				Measured Well Depth (ft)	16	16				
				Submerged screen	Y	Y				
MW-9	1221.6	1204.8	26.8	Groundwater Level (ft)	5.25	6.98	2.4	3.30E-05 1/28/2015	9.70E-05	194%
				Groundwater Elevation (Ft MSL)	1216.35	1214.62				
				Measured Well Depth (ft)	24.4	26.7				
				Submerged screen	Y	Y				
MW-10	1230.1	1263.7	33.6	Groundwater Level (ft)	3.48	4.94	0.2	6.20E-06 1/28/2015	8.61E-06	39%
				Groundwater Elevation (Ft MSL)	1226.62	1225.16				
				Measured Well Depth (ft)	33.4	33.5				
				Submerged screen	Y	Y				
MW-28	1230	1198	42	Groundwater Level (ft)	2.95	4.11	1.5	4.80E-06 1/28/2015	2.04E-06	-58%
				Groundwater Elevation (Ft MSL)	1227.05	1225.89				
				Measured Well Depth (ft)	41.3	40.5				
				Submerged screen	Y	Y				
MW-29	1274.5	1218.5	15.8	Groundwater Level (ft)	10.69	11.7	0.2	4.10E-05 1/28/2015	2.75E-05	-33%
				Groundwater Elevation (Ft MSL)	1263.81	1262.8				
				Measured Well Depth (ft)	16	15.6				
				Submerged screen	Y	Y				
MW-30	1274.2	1253.2	31.3	Groundwater Level (ft)	10.45	11.39	0.6	5.70E-05 1/28/2015	3.30E-05	-42%
				Groundwater Elevation (Ft MSL)	1263.75	1262.81				
				Measured Well Depth (ft)	30.9	30.7				
				Submerged screen	Y	Y				
MW-31	1241.39	1275.8	34.41	Groundwater Level (ft)	12.25	12.84	0.21	3.54E-06 1/28/2015	8.11E-06	129%
				Groundwater Elevation (Ft MSL)	1229.14	1228.55				
				Measured Well Depth (ft)	34.5	34.2				
				Submerged screen	Y	Y				
PZ-PH-1	1248.76	1237.5	31.3	Groundwater Level (ft)	9.49	11.21	0	4.04E-05 1/28/2015	3.25E-05	-20%
				Groundwater Elevation (Ft MSL)	1239.27	1237.55				
				Measured Well Depth (ft)	31.3	32.3				
				Submerged screen	Y	Y				

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		3/25/2018	8/31/2018
GPZ - 1	bottom of waste (feet MSL)	1074	
	Groundwater Elevation (feet MSL)	1072	1068
	Separation distance (feet)	2	6

Comments: (insert clarifications or notes as needed) Provide schedule for any repair, redevelopment, or replacement of monitoring points.

This worksheet;
1) Summarizes data used to evaluate Monitoring Well Maintenance and Performance, and
2) Identifies monitoring wells that have submerged screens.

Table 5
Background Summary
2020 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Interwell Background/Control Limit (MW-1 and MW-8)

Constituent	Units	Samples	Detections	Background level	Statistical Test	Action Level	Source
Inorganics							
Barium (Ba)	µg/l	8	6	1571	M+/-2SD	2000	MCL
Beryllium (Be)	µg/l	8	4	1.7	M+/-2SD	4	MCL
Cadmium (Cd)	µg/l	8	0	0.1	M+/-2SD	5	MCL
Chromium (Cr)	µg/l	8	0	2	M+/-2SD	100	MCL
Copper (Cu)	µg/l	8	0	2	M+/-2SD	1300	MCL
Lead (Pb)	µg/l	8	0	0.5	M+/-2SD	15	MCL
Mercury (Hg)	µg/l	3	0	0.2	M+/-2SD	2	MCL
Selenium (Se)	µg/l	8	0	0.7	M+/-2SD	50	MCL
Zinc (Zn)	µg/l	8	7	173.8	M+/-2SD	2000	SS
Organics - Supplemental							
Benzene	µg/l	8	0	0.1	M+/-2SD	5	MCL
cis-1,2-dichloroethene (cis-1,2-DCE)	µg/l	8	0	1	M+/-2SD	7	MCL
Trichlororethene (TCE)	µg/l	8	0	0.22	M+/-2SD	5	MCL
Vinyl Chloride	µg/l	8	0	0.25	M+/-2SD	2	MCL
Organics - Remedial Action							
Vinyl Chloride	µg/l	3	0	0.5	M+/-2SD	2	MCL

Comments: (insert clarifications or notes as needed) Provide a narrative of water quality results and effectiveness of the statistical data evaluation criteria. Include a summary, if applicable, of any changes to the previous statistical methods that were made in this reporting period, including notifications of changes to the Department and approval dates.

This worksheet;
1) Summarizes the size and quality of the data record of the background data,
2) Summarizes the current statistical method,
3) Examines how background levels were determined,
4) Examines whether background levels are reasonable,
5) Identifies background water quality that is impacted.

Table 6

Summary of Well/Detected Constituent Pairs With No Immediately Preceding Control Limit Exceedances
2020 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Well	Constituent	Units	Most recent result	Control Limit
MW-1	Barium	µg/l	561	1571
	Beryllium	µg/l	0.6	1.7
	Nickel	µg/l	6.3	51
	Zinc	µg/l	71	173.8
MW-2	Antimony	µg/l	2.8	5.2
	Arsenic	µg/l	20.7	15.2
	Barium	µg/l	378	1571
	Nickel	µg/l	7.9	51
MW-3	Barium	µg/l	121	1571
	Nickel	µg/l	17.6	51
	Zinc	µg/l	87.2	173.8
MW-4	Arsenic	µg/l	3.3	15.2
	Barium	µg/l	838	1571
	Nickel	µg/l	22	51
	Zinc	µg/l	48.6	173.8
MW-5	Arsenic	µg/l	2.6	15.2
	Barium	µg/l	153	1571
	Zinc	µg/l	42.1	173.8
MW-6	Antimony	µg/l	3.4	5.2
	Arsenic	µg/l	2.5	15.2
	Barium	µg/l	1125	1571
	Nickel	µg/l	10	51
	Zinc	µg/l	22.6	173.8
	Toluene	µg/l	6.8	0.22
MW-7	Arsenic	µg/l	4.1	15.2
	Barium	µg/l	316	1571
	Cobalt	µg/l	3.8	2.45
MW-8	Arsenic	µg/l	4.7	15.2
	Barium	µg/l	1468	1571
	Nickel	µg/l	37	51
	Zinc	µg/l	21.7	173.8
MW-9	Zinc	µg/l	27.7	173.8
MW-10	Arsenic	µg/l	2.2	7.38
	Barium	µg/l	671	1738
	Nickel	µg/l	11.2	8.854
	Zinc	µg/l	14.7	81.7
GU-1	Arsenic	µg/l	2.8	15.2
	Zinc	µg/l	13.9	173.8
MW-28	Arsenic	µg/l	2.8	15.2
MW-30	Arsenic	µg/l	3.3	15.2
	Cobalt	µg/l	1.7	2.45

Comments: (insert clarifications or notes as needed) Provide a narrative discussion of any problems with the current detection network such as dry points, damaged or inaccessible points, laboratory issues, impact of problems on efficacy of HMSP, proposed remedies if necessary and schedule to implement remedies. Also describe if alternative constituent list or sample frequencies have been approved.

This worksheet presents a summary of background comparisons for well constituents pairs that are in the routine monitoring program. If exceedances are confirmed an investigation of a new release is necessary.

Table 7
Summary of Ongoing and Newly Identified Control Limit Exceedances
2020 Annual Water Quality Report
Hawkeye County Sanitary Landfill
Permit No. 00-SDP-01-74P

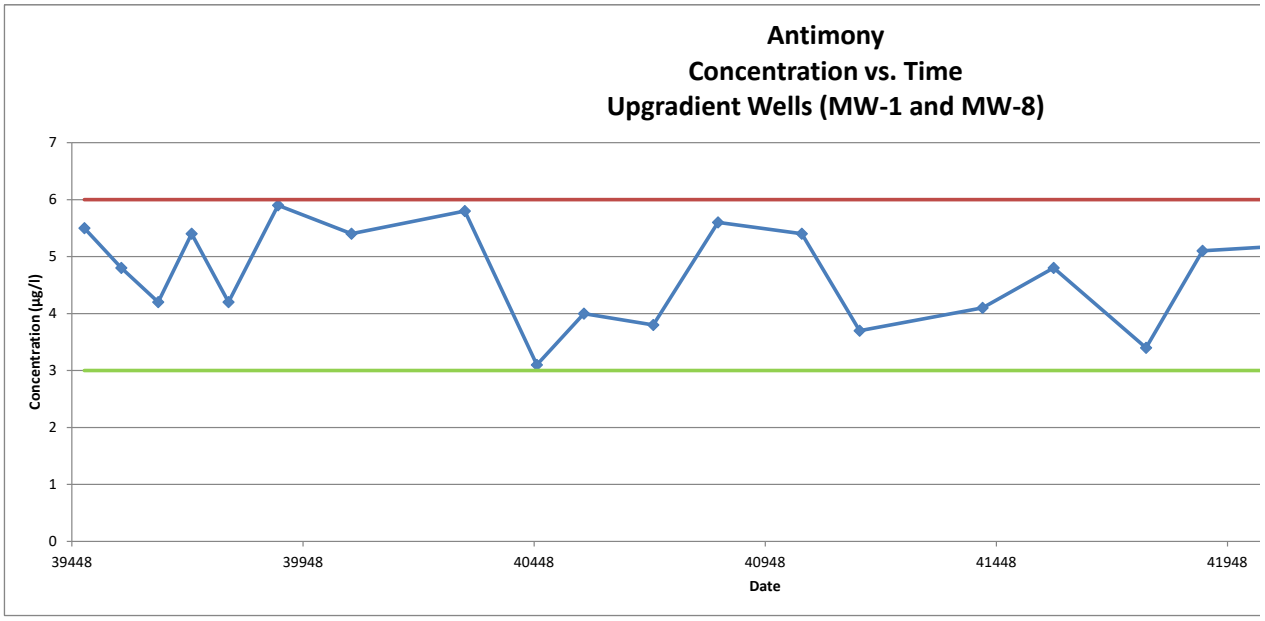
Well	Constituent	Units	Most recent result	Background Standard
MW-2	Arsenic	µg/l	20.7	15.2
	cis-1,2-DCE	µg/l	3.4	1
	TCE	µg/l	17.8	0.22
MW-3	Cobalt	µg/l	1.97	2.45
MW-4	Cobalt	µg/l	8.97	2.45
	Vanadium	µg/l	12	0.5
MW-6	Benzene	µg/l	3.14	0.1
	Toluene	µg/l	6.8	0.22
	Vinyl Chloride	µg/l	5.4	0.25
MW-7	Cobalt	µg/l	3.8	2.45
MW-9	Barium	µg/l	1974	1571
	cis-1,2-DCE	µg/l	1.5	1
	bis(2-ethylhexyl)phthalate	µg/l	6.98	0.5

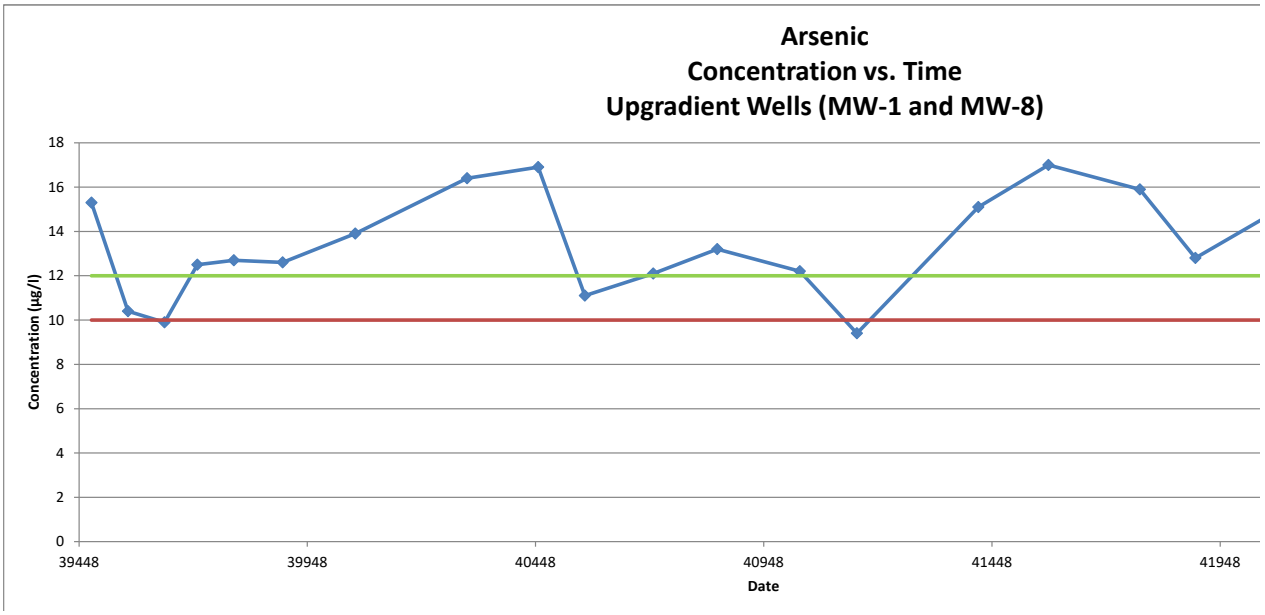
Comments: (insert clarifications or notes as needed) Provide a narrative discussion of any problems with tl
of problems on efficacy of HMSP, proposed remedies if necessary and schedule to implement remedies. A
describe the status of plume delineation activities and property owner notifications, as necessary.)

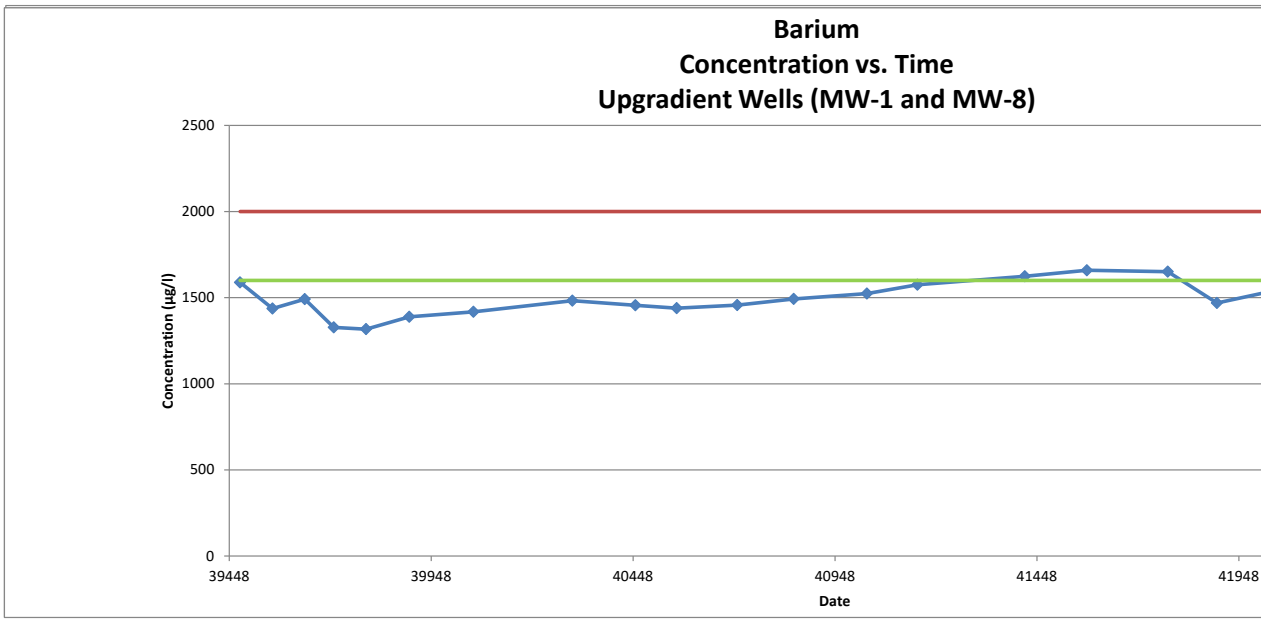
Action Level/ Statewide Standard
15.2
7
5
2.8
2.8
35
5
1000
2
2.8
2000
7
6

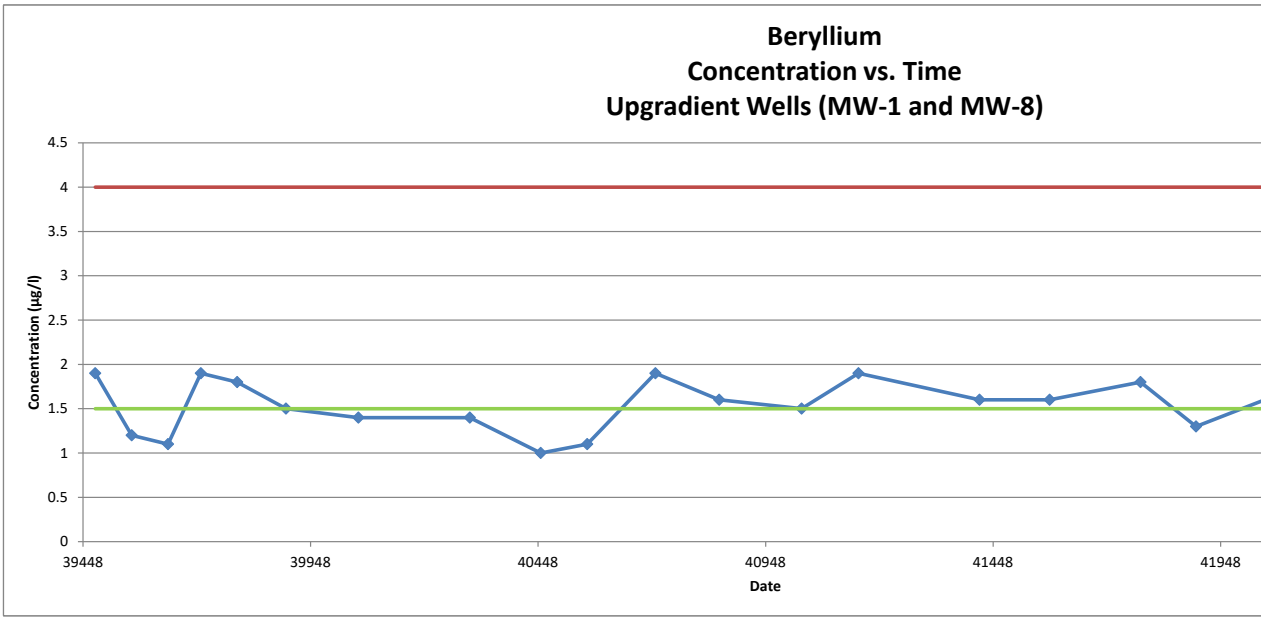
he current network such as dry points, damaged or inaccessible points, laboratory issues, impact
lso describe if alternative constituent list or alternative frequency has been approved. Also

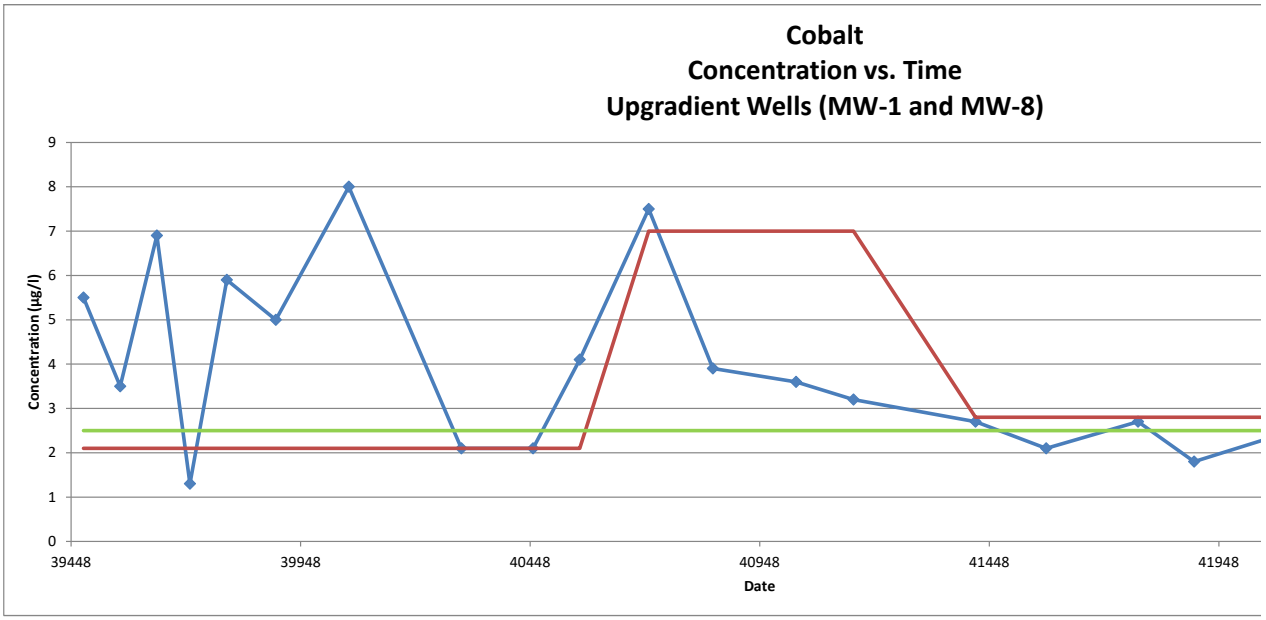
	Antimony (µg/l)			Arsenic (µg/l)			Barium (µg/l)			Beryllium (µg/l)			Cobalt (µg/l)		
Sample Date	PL	MCL/SS		PL	MCL/SS		PL	MCL/SS		PL	MCL/SS		PL	MCL/SS	
1/28/2008	5.5	6	3	15.3	10	12	1588.5	2000	1600	1.9	4	1.5	5.5	2.1	
4/17/2008	4.8	6	3	10.4	10	12	1436.6	2000	1600	1.2	4	1.5	3.5	2.1	
7/6/2008	4.2	6	3	9.9	10	12	1491.7	2000	1600	1.1	4	1.5	6.9	2.1	
9/16/2008	5.4	6	3	12.5	10	12	1327.1	2000	1600	1.9	4	1.5	1.3	2.1	
12/5/2008	4.2	6	3	12.7	10	12	1316.9	2000	1600	1.8	4	1.5	5.9	2.1	
3/22/2009	5.9	6	3	12.6	10	12	1388.3	2000	1600	1.5	4	1.5	5	2.1	
8/28/2009	5.4	6	3	13.9	10	12	1417.9	2000	1600	1.4	4	1.5	8	2.1	
4/30/2010	5.8	6	3	16.4	10	12	1482.9	2000	1600	1.4	4	1.5	2.1	2.1	
10/3/2010	3.1	6	3	16.9	10	12	1455.2	2000	1600	1	4	1.5	2.1	2.1	
1/13/2011	4	6	3	11.1	10	12	1438.8	2000	1600	1.1	4	1.5	4.1	2.1	
6/12/2011	3.8	6	3	12.1	10	12	1456.6	2000	1600	1.9	4	1.5	7.5	7	
10/30/2011	5.6	6	3	13.2	10	12	1492.9	2000	1600	1.6	4	1.5	3.9	7	
4/28/2012	5.4	6	3	12.2	10	12	1523.8	2000	1600	1.5	4	1.5	3.6	7	
8/31/2012	3.7	6	3	9.4	10	12	1575.3	2000	1600	1.9	4	1.5	3.2	7	
5/24/2013	4.1	6	3	15.1	10	12	1624.2	2000	1600	1.6	4	1.5	2.7	2.8	
10/25/2013	4.8	6	3	17	10	12	1659.1	2000	1600	1.6	4	1.5	2.1	2.8	
5/13/2014	3.4	6	3	15.9	10	12	1650.6	2000	1600	1.8	4	1.5	2.7	2.8	
9/12/2014	5.1	6	3	12.8	10	12	1468.7	2000	1600	1.3	4	1.5	1.8	2.8	
4/1/2015	5.2	6	3	15.2	10	12	1571	2000	1600	1.7	4	1.5	2.45	2.8	






Barium
Concentration vs. Time
Upgradient Wells (MW-1 and MW-8)
Concentration (µg/l)
2500
2000
1500
1000
500
0
39448
39948
40448
40948
41448
41948
Date

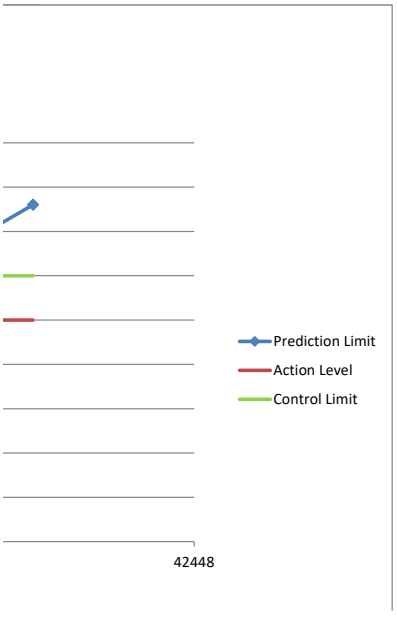

Beryllium
Concentration vs. Time
Upgradient Wells (MW-1 and MW-8)
Concentration (µg/l)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
39448
39948
40448
40948
41448
41948
Date



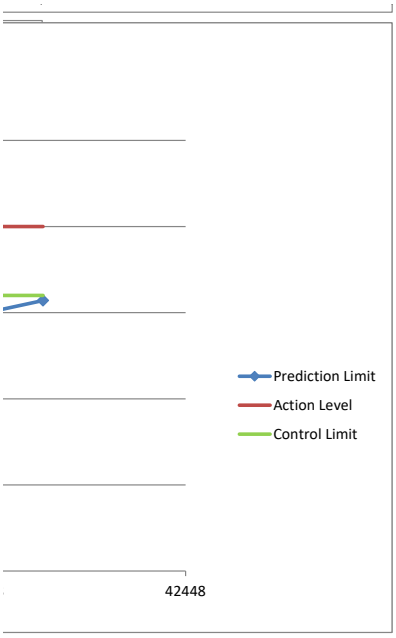
Comments: (insert clarifications or notes as needed) Explain any substantial control limit fluctuations.

This worksheet;
1) Summarizes changes to health based standards,
2) Highlights large changes or trends in Control Limits for further review,
3) Highlights when Control Limits are greater than Action Level for further review of cause, and
4) Potentially identifies that a monitoring program is the correct phase such as assessment or detection monitoring.

	Exceedance
2.5	**yes**
2.5	**yes**
2.5	**yes**
2.5	
2.5	**yes**
2.5	**yes**
2.5	**yes**
2.5	
2.5	
2.5	**yes**
2.5	**yes**
2.5	
2.5	
2.5	
2.5	
2.5	
2.5	
2.5	
2.5	



Graphs


Prediction Limit
Action Level
Control Limit
42448


Prediction Limit
Aciton Level
Control Limit
42448

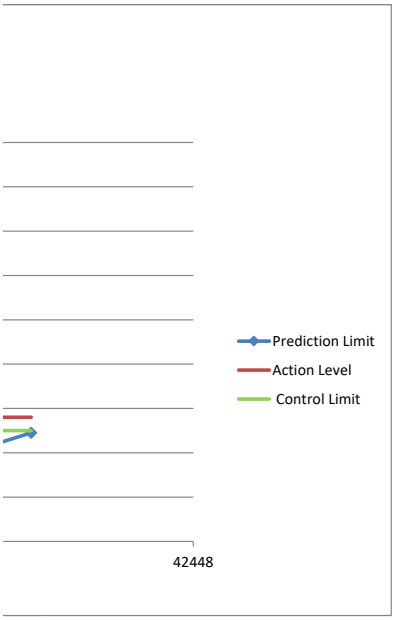

Prediction Limit
Action Level
Control Limit
42448

Table 8
Analytical Data Summary
2020 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Constituent (CAS #)	Sample Date	Units	MW-1 Bkgrnd	MW-8 Bkgrnd	MW-2 DwnGrad	MW-3 DwnGrad	MW-4 DwnGrad	MW-5 DwnGrad	MW-6 DwnGrad	MW-7 DwnGrad	MW-9 DwnGrad	MW-10 DwnGrad	GU-1 U-Drain	MW-28 Delineatio	MW-30 RAMP
Arsenic (Total) (7440-38-2)	1/28/2008	µg/l	<2	2.7	1.5	4.1	9.8	5.0	<2	3.4	5.2	4.4	8.1		
MCL = 10	4/17/2008	µg/l	10.0	<2	12.1	18	3.7	2.6	14.6	<2	11.9	3.0	2.6		
	7/6/2008	µg/l	15.3	11.6	8.3	24.2	<2	4.4	9.0	4.2	6.4	2.5	6.3		
	9/16/2008	µg/l	17.0	9.2	13.7	6.5	7.3	4.9	10.2	<2	<2	4.3	7.4		
	12/5/2008	µg/l	3.0	3.9	6.5	20.4	9.5	<2	4.8	2.6	10.3	3.5	4.7		
	3/22/2009	µg/l	11.4	7.1	10.3	8.5	2.6	2.4	7.8	4.2	5.5	4.2	<2		
	8/28/2009	µg/l	7.6	10.0	7.9	15.5	<2	3.1	11.0	<2	11.7	2.9	11.8		
	4/30/2010	µg/l	2.6	2.5	5.1	32.7	2.1	4.1	<2	3.1	15.1	4.3	10.0		
	10/3/2010	µg/l	12.7	2.0	10.6	18.3	5.4	4.0	2.8	3.8	28.7	<2	5.9		
	6/12/2011	µg/l	16.1	9.0	3.9	22.4	9.9	2.0	6.7	<2	14.6	4.5	7.9		
	10/30/2011	µg/l	2.5	<2	2.2	4.2	<2	4.2	7.2	2.6	38.8	<2	7.3	3.5	4.4
	4/28/2012	µg/l	14.5	2.3	8.8	5.6	3.9	4.0	11.6	<2	18.2	2.1	3.1	8.0	<2
	8/31/2012	µg/l	4.6	11.8	13.5	7.2	2.0	4.6	3.7	4.9	15.7	3.6	9.4	11.3	11.2
	5/24/2013	µg/l	6.1	4.9	13.9	3.1	3.9	3.7	6.5	2.6	19.1	2.9	8.1	4.4	7.8
	10/25/2013	µg/l	10.9	4.9	10.3	5.3	3.2	2.9	9.5	4.9	18.7	<2	8.9	8.5	<2
	5/13/2014	µg/l	15.3	2.4	13.8	2.1	3.9	3.8	<2	<2	25.7	2.2	9.7	4.8	3.2
	9/12/2014	µg/l	18.3	11.9	14.3	1.8	6.5	2.3	13.7	4.1	21.4	2.3	7.0	8.0	10.0
	4/1/2015	µg/l	<2	4.7	20.7	5.34	3.3	2.6	2.5	4.1	31.4	2.2	2.8	2.8	3.3
Barium (Total) (7440-39-3)	1/28/2008	µg/l	586	446	575	72	1134	23	1107	66	1155	648	350		
MCL = 2000	4/17/2008	µg/l	510	396	689	868	27	29	155	319	18	1180	366		
	7/6/2008	µg/l	1713	366	785	480	965	973	374	162	78	663	377		
	9/16/2008	µg/l	98	1625	1076	1034	81	679	723	543	885	1175	425		
	12/5/2008	µg/l	631	1728	405	992	860	75	971	231	632	207	479		
	3/22/2009	µg/l	1055	1456	1489	889	1026	842	380	265	1072	794	16		
	8/28/2009	µg/l	1677	1594	757	131	1193	661	966	92	373	187	279		
	4/30/2010	µg/l	931	1668	393	209	771	488	169	1079	929	74	91		
	10/3/2010	µg/l	1123	1476	1164	416	38	1093	1141	684	490	1110	227		
	6/12/2011	µg/l	42	767	594	84	1124	1090	939	232	772	<10	208		
	10/30/2011	µg/l	63	166	211	1070	193	<10	391	173	1209	68	272		
	4/28/2012	µg/l	953	1616	1074	1191	558	61	517	615	1620	294	131		
	6/21/2012	µg/l									1554				
	8/31/2012	µg/l	1703	28	842	321	739	260	325	891	938	643	264		
	5/24/2013	µg/l	1302	102	1230	973	86	390	230	817	1754	688	<10		
	10/25/2013	µg/l	1405	1026	149	377	660	220	572	649	1902	710	89		
	5/13/2014	µg/l	1738	1664	1200	786	1194	1136	1016	851	1227	695	144		
	9/12/2014	µg/l	<10	742	988	810	1156	1060	276	206	1865	341	72		
	4/1/2015	µg/l	561	1468	378	121	838	153	1125	316	1974	671	<10		
Beryllium (Total) (7440-41-7)	1/28/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MCL = 4	4/17/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	7/6/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	9/16/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	12/5/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	3/22/2009	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	8/28/2009	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	4/30/2010	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/3/2010	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	6/12/2011	µg/l	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/30/2011	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	4/28/2012	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	8/31/2012	µg/l	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	5/24/2013	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/25/2013	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	5/13/2014	µg/l	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	9/12/2014	µg/l	<0.5	0.3 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	4/1/2015	µg/l	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Cadmium (Total) (7440-43-9)	1/28/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
MCL = 5	4/17/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	7/6/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	9/16/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	12/5/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	3/22/2009	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	8/28/2009	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	4/30/2010	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	10/3/2010	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	6/12/2011	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	10/30/2011	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	4/28/2012	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	8/31/2012	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	5/24/2013	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	10/25/2013	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	5/13/2014	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	9/12/2014	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
	4/1/2015	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Chromium (Total) (7440-47-3)	1/28/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
MCL = 100	4/17/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	7/6/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	9/16/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	12/5/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	3/22/2009	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	8/28/2009	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	4/30/2010	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	10/3/2010	µg/l	<2	<2	8.7	<2	<2	<2	<2	<2	<2	<2	<2		
	6/12/2011	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	10/30/2011	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	4/28/2012	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	8/31/2012	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	5/24/2013	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	10/25/2013	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	5/13/2014	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	9/12/2014	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		

			MW-1	MW-8	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-9	MW-10	GU-1	MW-28	MW-30
	4/1/2015	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
Cobalt (Total) (7440-48-4)	1/28/2008	µg/l	<1.2	<1.2	5.5	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
SS = 2.8	4/17/2008	µg/l	<1.2	<1.2	1.3	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	7/6/2008	µg/l	<1.2	<1.2	4.2	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	9/16/2008	µg/l	<1.2	<1.2	5.8	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	12/5/2008	µg/l	<1.2	<1.2	4.8	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	3/22/2009	µg/l	<1.2	<1.2	5.6	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	8/28/2009	µg/l	<1.2	<1.2	3.5	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	4/30/2010	µg/l	<1.2	<1.2	6.8	<1.2	<2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	10/3/2010	µg/l	<1.2	<1.2	4.2	1.2	7.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	1/13/2011	µg/l				2.7	1.2								
	6/12/2011	µg/l	<1.2	<1.2	4.7	<1.2	2.6	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
	10/30/2011	µg/l	<1.2	<1.2	1.7	2.8	5.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.5**	**1.3**
	4/28/2012	µg/l	<1.2	<1.2	2.8	3.4	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
	8/31/2012	µg/l	<1.2	<1.2	1.3	4.1	5.4	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.9**	<1.2
	5/24/2013	µg/l	<1.2	**.9 J**	2.7	1.9	5.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
	10/25/2013	µg/l	<1.2	<1.2	1.9	<1.2	5.6	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.2**	**1.6**
	5/13/2014	µg/l	**2.45**	<1.2	1.8	2.8	4.1	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.3**	**1.3**
	9/12/2014	µg/l	<1.2	<1.2	0.6	3.4	8.6	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.9**
	4/1/2015	µg/l	<1.2	<1.2	2.3	1.97	9.0	<1.2	<1.2	3.8	<1.2	<1.2	<1.2	<1.2	**1.7**
Copper (Total) (7440-50-8)	1/28/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
MCL = 1300	4/17/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	7/6/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	9/16/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	12/5/2008	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	3/22/2009	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	8/28/2009	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	4/30/2010	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	10/3/2010	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	6/12/2011	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	10/30/2011	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	4/28/2012	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	8/31/2012	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	5/24/2013	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	10/25/2013	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	5/13/2014	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	9/12/2014	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
	4/1/2015	µg/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
Lead (Total) (7439-92-1)	1/28/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MCL = 15	4/17/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	7/6/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	9/16/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	12/5/2008	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	3/22/2009	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	8/28/2009	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	4/30/2010	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/3/2010	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	6/12/2011	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/30/2011	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	4/28/2012	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	8/31/2012	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	5/24/2013	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/25/2013	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	5/13/2014	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	9/12/2014	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
	4/1/2015	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Selenium (Total) (7782-49-2)	1/28/2008	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
MCL = 50	4/17/2008	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	7/6/2008	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	9/16/2008	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	12/5/2008	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	3/22/2009	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	8/28/2009	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	4/30/2010	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	10/3/2010	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	6/12/2011	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	10/30/2011	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	4/28/2012	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	8/31/2012	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	5/24/2013	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	10/25/2013	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	5/13/2014	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	9/12/2014	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
	4/1/2015	µg/l	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
Total Suspended Solids (TSS)	9/12/2014	mg/l	<1	<1	<1	<1	**15.8**	<1	<1	<1	**2.72**	<1	<1		
	4/1/2015	mg/l	<1	**3.8**	<1	<1	**7.7**	<1	<1	<1	**3.14**	<1	<1		
Benzene (71-43-2)	1/28/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	<0.1	<0.1	<0.1	<0.1		
MCL = 5	4/17/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.9	<0.1	<0.1	<0.1	<0.1		
	7/6/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1		
	9/16/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.7	<0.1	<0.1	<0.1	<0.1		
	12/5/2008	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	<0.1	<0.1	<0.1	<0.1		
	3/22/2009	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	<0.1		
	8/28/2009	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1		
	4/30/2010	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	<0.1	<0.1	<0.1	<0.1		
	10/3/2010	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	<0.1	<0.1		
	6/12/2011	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1		
	10/30/2011	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	<0.1		
	4/28/2012	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.1	<0.1	<0.1	<0.1	<0.1		
	8/31/2012	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.8	<0.1	<0.1	<0.1	<0.1		
	5/24/2013	µg/l	<0.1	<0.1	0.05 J	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1		
	10/25/2013	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1		
	5/13/2014	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1		
	9/12/2014	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.3	<0.1	<0.1	<0.1	<0.1		
	4/1/2015	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.1	<0.1	<0.1	<0.1	<0.1		
Carbon tetrachloride (56-23-5)	1/28/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
MCL = 5	4/17/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		

			MW-1	MW-8	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-9	MW-10	GU-1	MW-28	MW-30
	7/6/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	9/16/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	12/5/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	3/22/2009	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	8/28/2009	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	4/30/2010	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	10/3/2010	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	6/12/2011	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	10/30/2011	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	4/28/2012	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	8/31/2012	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	5/24/2013	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	10/25/2013	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	5/13/2014	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	9/12/2014	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	4/1/2015	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
1,1-Dichloroethane (75-34-3)	1/28/2008	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
SS = 140	4/17/2008	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	7/6/2008	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	9/16/2008	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	12/5/2008	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	3/22/2009	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	8/28/2009	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	4/30/2010	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	10/3/2010	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	6/12/2011	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	10/30/2011	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	4/28/2012	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	8/31/2012	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	5/24/2013	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	10/25/2013	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	5/13/2014	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	9/12/2014	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
	4/1/2015	µg/l	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53		
1,2-Dichloroethane (107-06-2)	1/28/2008	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
MCL = 5	4/17/2008	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	7/6/2008	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	9/16/2008	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	12/5/2008	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	3/22/2009	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	8/28/2009	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	4/30/2010	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	10/3/2010	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	6/12/2011	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	10/30/2011	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	4/28/2012	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	8/31/2012	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	5/24/2013	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	10/25/2013	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	5/13/2014	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	9/12/2014	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	4/1/2015	µg/l	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
1,1-Dichloroethylene (75-35-4)	1/28/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
MCL = 7	4/17/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	7/6/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	9/16/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	12/5/2008	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	3/22/2009	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	8/28/2009	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	4/30/2010	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	10/3/2010	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	6/12/2011	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	10/30/2011	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	4/28/2012	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	8/31/2012	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	5/24/2013	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	10/25/2013	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	5/13/2014	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	9/12/2014	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	4/1/2015	µg/l	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
cis-1,2-Dichloroethylene (156-59-2)	1/28/2008	µg/l	<1	<1	5.8	<1	<1	<1	<1	<1	<1	<1	<1		
MCL - 70	4/17/2008	µg/l	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1		
	7/6/2008	µg/l	<1	<1	0.9 J	<1	<1	<1	<1	<1	<1	<1	<1		
	9/16/2008	µg/l	<1	<1	6.7	<1	<1	<1	<1	<1	<1	<1	<1		
	12/5/2008	µg/l	<1	<1	6.9	<1	<1	<1	<1	<1	<1	<1	<1		
	3/22/2009	µg/l	<1	<1	3.2	<1	<1	<1	<1	<1	<1	<1	<1		
	8/28/2009	µg/l	<1	<1	3.5	<1	<1	<1	<1	<1	<1	<1	<1		
	4/30/2010	µg/l	<1	<1	3.5	<1	<1	<1	<1	<1	<1	<1	<1		
	10/3/2010	µg/l	<1	<1	5.0	<1	<1	<1	<1	<1	<1	<1	<1		
	6/12/2011	µg/l	<1	<1	4.1	<1	<1	<1	<1	<1	<1	<1	<1		
	10/30/2011	µg/l	<1	<1	6.5	<1	<1	<1	<1	<1	<1	<1	<1		
	4/28/2012	µg/l	<1	<1	4.8	<1	<1	<1	<1	<1	0.8 J	<1	<1		
	8/31/2012	µg/l	<1	<1	4.0	<1	<1	<1	<1	<1	1.8	<1	<1		
	5/24/2013	µg/l	<1	<1	2.6	<1	<1	<1	<1	<1	2.2	<1	<1		
	10/25/2013	µg/l	<1	<1	2.1	<1	<1	<1	<1	<1	4.9	<1	<1		
	5/13/2014	µg/l	<1	<1	3.6	<1	<1	<1	<1	<1	3.5	<1	<1		
	9/12/2014	µg/l	<1	<1	2.9	<1	<1	<1	<1	<1	3.7	<1	<1		
	4/1/2015	µg/l	<1	<1	3.4	<1	<1	<1	<1	<1	1.5	<1	<1		
Methyl chloride; Chloromethane (74-87-3)	1/28/2008	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	4/17/2008	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	7/6/2008	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	9/16/2008	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	12/5/2008	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	3/22/2009	µg/l	<0.15	<0.15	5.8	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	8/28/2009	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	4/30/2010	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		

			MW-1	MW-8	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-9	MW-10	GU-1	MW-28	MW-30
	10/3/2010	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	6/12/2011	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	10/30/2011	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	4/28/2012	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	8/31/2012	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	5/24/2013	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	10/25/2013	µg/l	<0.15	<0.15	12.1	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	5/13/2014	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	9/12/2014	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	4/1/2015	µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
1,1,1-Trichloroethane (71-55-6)	1/28/2008	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
MCL = 200	4/17/2008	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	7/6/2008	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	9/16/2008	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	12/5/2008	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	3/22/2009	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	8/28/2009	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	4/30/2010	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	10/3/2010	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	6/12/2011	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	10/30/2011	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	4/28/2012	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	8/31/2012	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	5/24/2013	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	10/25/2013	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	5/13/2014	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	9/12/2014	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	4/1/2015	µg/l	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
Trichloroethylene (79-01-6)	1/28/2008	µg/l	<0.22	<0.22	7.5	<0.22	<0.22	<0.22	<0.22	<0.22	0.7	<0.22	<0.22	**0.5**	<0.22
MCL = 5	4/17/2008	µg/l	<0.22	<0.22	2.9	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**9.4**
	7/6/2008	µg/l	<0.22	<0.22	7.8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**9.5**
	9/16/2008	µg/l	<0.22	<0.22	3.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**0.5**	**6.7**
	12/5/2008	µg/l	<0.22	<0.22	3.4	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**1.3**
	3/22/2009	µg/l	<0.22	<0.22	3.8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**8**
	8/28/2009	µg/l	<0.22	<0.22	2.3	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**7.9**
	4/30/2010	µg/l	<0.22	<0.22	0.7	<0.22	<0.22	<0.22	<0.22	<0.22	0.8	<0.22	<0.22	**0.3**	<0.22
	10/3/2010	µg/l	<0.22	<0.22	7.2	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**1.5**
	6/12/2011	µg/l	<0.22	<0.22	6.7	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**0.3**	**5.4**
	10/30/2011	µg/l	<0.22	<0.22	1.4	<0.22	<0.22	<0.22	<0.22	<0.22	**0.18 J**	<0.22	<0.22	<0.22	**9.8**
	4/28/2012	µg/l	<0.22	<0.22	5.8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**5.4**
	8/31/2012	µg/l	<0.22	<0.22	4.3	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**6**
	5/24/2013	µg/l	<0.22	<0.22	8.5	<0.22	<0.22	<0.22	<0.22	<0.22	0.8	<0.22	<0.22	<0.22	**0.6**
	10/25/2013	µg/l	<0.22	<0.22	10.8	<0.22	<0.22	<0.22	<0.22	<0.22	**0.2 J**	<0.22	<0.22	**0.3**	**9.8**
	5/13/2014	µg/l	<0.22	<0.22	7.6	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**2.5**
	9/12/2014	µg/l	<0.22	<0.22	13.8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**0.4**	**8.9**
	4/1/2015	µg/l	<0.22	<0.22	17.8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	**8.4**
Vinyl chloride (75-01-4)	1/28/2008	µg/l	<0.25	<0.25	13.4	<0.25	<0.25	<0.25	1.6	<0.25	<0.25	<0.25	<0.25	<0.25	**9.8**
MCL = 2	4/17/2008	µg/l	<0.25	<0.25	16.6	<0.25	<0.25	<0.25	1.2	<0.25	<0.25	<0.25	<0.25	<0.25	**9.2**
	7/6/2008	µg/l	<0.25	<0.25	15.6	<0.25	<0.25	<0.25	1.6	<0.25	<0.25	<0.25	<0.25	<0.25	**3.3**
	9/16/2008	µg/l	<0.25	<0.25	14.7	<0.25	<0.25	<0.25	5.0	<0.25	<0.25	<0.25	<0.25	**0.3**	**4.3**
	12/5/2008	µg/l	<0.25	<0.25	7.1	<0.25	<0.25	<0.25	1.9	<0.25	<0.25	<0.25	<0.25	<0.25	**9.2**
	3/22/2009	µg/l	<0.25	<0.25	11.3	<0.25	<0.25	<0.25	2.3	<0.25	<0.25	<0.25	<0.25	<0.25	**9.3**
	8/28/2009	µg/l	<0.25	<0.25	3.1	<0.25	<0.25	<0.25	4.3	<0.25	<0.25	<0.25	<0.25	<0.25	**4.1**
	4/30/2010	µg/l	<0.25	<0.25	12.7	<0.25	<0.25	<0.25	3.0	<0.25	<0.25	<0.25	<0.25	<0.25	**2.1**
	10/3/2010	µg/l	<0.25	<0.25	15.0	<0.25	<0.25	<0.25	0.6	<0.25	**0.21 J**	<0.25	<0.25	**0.8**	**3**
	6/12/2011	µg/l	<0.25	<0.25	17.3	<0.25	<0.25	<0.25	3.9	<0.25	1.1	<0.25	<0.25	**0.7**	**5.8**
	10/30/2011	µg/l	<0.25	<0.25	12.3	<0.25	<0.25	<0.25	<0.25	<0.25	2.0	<0.25	<0.25	<0.25	**8.1**
	4/28/2012	µg/l	<0.25	<0.25	11.8	<0.25	<0.25	<0.25	2.4	<0.25	4.6	<0.25	<0.25	**1**	**3.2**
	8/31/2012	µg/l	<0.25	<0.25	14.1	<0.25	<0.25	<0.25	1.8	<0.25	5.3	<0.25	<0.25	<0.25	**4.8**
	5/24/2013	µg/l	<0.25	<0.25	4.4	<0.25	<0.25	<0.25	0.8	<0.25	2.8	<0.25	<0.25	<0.25	**3.4**
	10/25/2013	µg/l	<0.25	<0.25	16.3	<0.25	<0.25	<0.25	0.5	<0.25	0.8	<0.25	<0.25	**0.4**	**0.7**
	5/13/2014	µg/l	<0.25	<0.25	4.2	<0.25	<0.25	<0.25	5.0	<0.25	0.6	<0.25	<0.25	<0.25	**2.1**
	9/12/2014	µg/l	<0.25	<0.25	3.4	<0.25	<0.25	<0.25	2.2	<0.25	<0.25	<0.25	<0.25	<0.25	**7**
	4/1/2015	µg/l	<0.25	<0.25	7.4	<0.25	<0.25	<0.25	5.4	<0.25	0.7	<0.25	<0.25	**0.4**	**3.5**
Phenol (108-95-2)	7/26/2008	µg/l	<2	<2	<2				<2						
SS = 2000	6/15/2009	µg/l	<2	<2	<2				<2						
	4/12/2011	µg/l				<2	<2								
	1/16/2012	µg/l									<2				
	4/28/2012	µg/l				<2	<2								
	5/24/2013	µg/l									<2				
	5/13/2014	µg/l	<2	<2	<2				<2						
	12/1/2014	µg/l					<2								
Sulfide (18496-25-8)	7/26/2008	µg/l	<50	<50	<50				<50						
	6/15/2009	µg/l	<50	<50	<50				<50						
	4/12/2011	µg/l				<50	<50								
	1/16/2012	µg/l									<50				
	4/28/2012	µg/l				<50	<50								
	5/24/2013	µg/l									<50				
	5/13/2014	µg/l	<50	<50	<50				<50						
	12/1/2014	µg/l					<50								

Key:
MCL = USEPA Maximum Contaminant Level
SS = Iowa Statewide Standards

Comments: (insert clarifications or notes as needed) This is historical landfill data.

This worksheet;
1) Looks for gaps in data record and if an explanation for those gaps was prepared.
2) Examines if RLs are reasonable and if they have changed over the course of the project..

			MW-1	MW-8	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-9	MW-10	GU-1	MW-28	MW-30

Provide a discussion on the effectiveness of the Sampling Protocol as described in 114.20.

Table 9
Historic Control Limit & Action Level Exceedances
2020 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Key: gray =CL; black =action level						
Well	**Constituent**	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
MW-2	Arsenic					
	Cobalt					
	cis-1,2-Dichloroethylene					
	Trichloroethylene					
	Vinyl chloride					
MW-3	Arsenic					
	Cobalt					
MW-4	Cobalt					
	Vanadium					
MW-5	(none)					
MW-6	Benzene					
	Vinyl Chloride					
MW-7	(none)					
MW-9	Arsenic					
	Barium					
	cis-1,2 Dichloroethylene					
	Vinyl Chloride					
MW-10	(none)					

Comments: (insert clarifications or notes as needed)

This worksheet;
1) Summarizes the historical extent of groundwater impact,
2) Tracks GWQAP effectiveness, and
3) Potentially highlights sequential degradation of contaminants of concern.

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2020 Annual Water Quality Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Well	Current SSL	Trend
MW-2	Arsenic	decreasing
MW-2	TCE	decreasing
MW-3	TCE	increasing
MW-3	Vinyl Chloride	decreasing
MW-9	Benzene	decreasing
MW-9	TCE	decreasing

* - Permit holder addresses adequacy of groundwater quality assessment plan measure when trend is not
* - Permit holder shall adjust groundwater quality assessment plan action for financial assurance as comple

Comments: (insert

This worksheet summarizes progress to ending groundwater quality assessment.

Recommendations

Provide a brief summary of the impact the site has on the groundwater being monitored. Provide narrative discussion on proposed monitoring for the next and future sampling events, including installing/abandoning wells, adding/removing wells from the approved HMSP, modifying sampling and analysis of constituents, modifying statistical procedures, etc.

Groundwater Sampling Field Sheet

Site Name: _____ Permit No.: _____
Well/Piezometer: _____ Weather: _____
Date: _____ Personnel: _____

Monitoring Well Details

Borehole diameter (in): _____ Casing Diameter (in): _____ Ground surface elevation (ft. MSL): _____
Top of screen (ft. TOS): _____ Materials: _____ Top of Casing elevation (ft. MSL): _____
Locked (Y/N)

	Before purging	After purging	Before sampling
Water Level (ft. TOC):			
Water elevation (ft. MSL)			

3 Well Volumes (gal): _____ Screen submerged? (Y/N): _____

	Constructed	Measured	Difference
Well Depth (ft. TOC)			

Well conditions commentary: _____

Sampling Details

Sampling Method: Pump (conventional or low flow?) No-purge (specify sample interval)
(circle one) Bailer Other (specify)

Equipment type: Submersible pump Peristaltic pump Bladder pump Inertial lift pump
(check one) Bailer No-purge (specify): _____ Other (specify): _____

Equipment name/description: _____ Dedicated? (Y/N) Disposable? (Y/N)
Decontamination method: _____

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
			Yes or No
			Yes or No
			Yes or No
			Yes or No

Field Analysis

							Final Reading
Time							
Temp (°C)							
Sp. Cond (umhos/cm)							
pH							
DO (mg/l)							
ORP (mV)							
Turbidity (NTU)							

Equipment depth: _____ Flow Rate: _____ Volume removed: _____ Volume sampled: _____
Well dry? (Y/N) Odor? (Y/N) Color? (Y/N)

Comments: _____

Table 11
Leachate Management Summary
2020 Leachate Control System Performance Evaluation Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Month	Maximum Head on Liner (ft)				Leachate Collected (gal)				Volume Utilized for Dust Control (gal)		Discharge to Campbell Falls POTW (gal)
	PZ1-1	PZ1-2	PZ2-1	PZ-PH-1 (unlined)	Unlined Cells	Phase 1	Phase 2	Site wide total	Phase 1	Phase 2	
January	0.25	< 0.1	< 0.1	16	35,690	112,634	245,623	393,963	2,716	2,827	388,420
February	0.25	< 0.1	< 0.1	16	94,131	203,006	524,096	821,249	2,729	2,830	815,690
March	0.25	< 0.1	0.3	23	41,717	199,205	586,067	827,012	4,521	4,632	817,859
April	0.314	< 0.1	0.3	15	83,482	106,335	425,266	615,098	4,456	4,345	606,297
May	0.8	0.3	0.68	21	25,283	241,485	370,727	637,518	5,397	5,286	626,835
June	1.2	0.58	0.999	17	120,744	172,647	641,917	935,328	5,443	5,334	924,551
July	0.6	0.3	0.75	19	79,865	76,387	262,333	418,606	5,969	5,858	406,779
August	0.4	0.2	0.52	21	56,735	233,994	108,627	399,378	6,315	6,426	386,637
September	0.3	0.3	0.6	22	111,948	102,918	544,660	759,549	5,289	5,390	748,870
October	0.25	0.1	0.3	18	43,723	209,290	120,465	373,497	4,789	4,890	363,818
November	0.25	< 0.1	0.1	20	76,289	100,005	393,151	569,465	3,938	3,827	561,700
December	0.25	< 0.1	< 0.1	22	61,182	148,105	239,108	448,417	2,926	2,815	442,676
2015 Annual Total					830,789	1,906,011	4,462,040	7,199,080	54,488	54,460	7,090,132

NA - Measurement not available (clarify)
Comments: (insert clarifications or notes as needed) Recommended changes to the leachate collection system, if any. Also, describe maintenance performed on the leachate collection system in the previous year.

This worksheet;
1) Summarizes data used to evaluate leachate control system performance,
2) Reviews compliance and trends of leachate head levels,
3) Reviews adequacy of leachate storage volume,
4) Reviews that an approved POTW is being utilized.

Table 12
Gas Monitoring Summary
2020 Gas Monitoring Report
Cyclone County Sanitary Landfill
Permit No. 00-SDP-01-74P

Monitoring Points			Methane Results (% LEL)							
Name	Type	Description	1/12/2018 - S (Y/N)		4/1/2018 - S (Y/N)		7/13/2018 - S (Y/N)		10/22/2018 - S (Y/N)	
BLDG-1	Indoor	Office	0		0		0		0	
BLDG-2	Indoor	Scale House	0		0		0		0	
BLDG-3	Indoor	Recycling Building	0		0		0		0	
BLDG-4	Indoor	Maintenance Building	0		0		0		0	
UTILITY-1	Utility Trench	Along north property boundary	0		0		0		0	
GU-1	Underdrain	Phase 1 & 2 Underdrain	0		0		0		0	
GMP-1	Monitoring Well	West side of Phase 1	12	N	7	N	0	N	0	N
GMP-2	Monitoring Well	Property boundary near residence	0	N	0	N	0	N	0	N
GMP-3	Monitoring Well	North side of Phase 2	0	N	0	N	0	N	0	N
GMP-4	Monitoring Well	Along east property boundary	0	N	0	N	0	N	0	N
MW-6	Monitoring Well	South side of unlined area	0	N	0	N	0	N	0	N

S(Y/N) - Was screen submerged, yes or no or blank is non-applicable

Comments: (insert clarifications or notes as needed) Describe actions taken to comply with exceedances.

This worksheet ;
1) Summarizes gas monitoring plan and schedule, and
2) Identifies potential exceedances.

Gas Monitoring Map

(Map must contain gas monitoring locations.)