

Clean Harbors Environmental Services, LLC
Lone Mountain Facility
Waynoka, Oklahoma

RCRA/HSWA Permit Renewal Application

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VOLUME 4A

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MODFLOW GROUNDWATER MODELING DOCUMENTATION INFORMATION

Appendix A

Computer Models
Lone Mountain Facility
Cell 5 CMS

Numerical groundwater computer models were developed to aid in the evaluation of the corrective measures alternatives. These models were used to estimate the effectiveness of various remedial options on providing contaminant containment, the primary corrective measures objective. Each model was calibrated to observed conditions. Important site-specific features, such as surface water features and leachate extraction points, are represented in the models.

Results from the RCRA Facility Investigation (RFI) and the Interim Measure (IM) studies indicate that the factors controlling the movement of groundwater are scale-dependent. On a site-scale, groundwater flow is controlled by the local topographic features and the very low primary permeabilities of the claystone comprising the shallow subsurface. On a smaller scale, a plume-scale, in the shallowest water-bearing unit near Cell 5, secondary permeabilities control the migration of groundwater and associated solutes.

The scale-dependent processes were simulated using a telescopic mesh refinement (TMR) approach. Two separate models were developed. Each model represents a separate flow regime, one simulating the site-scale processes (Site-Scale model) and the other plume-scale processes (Plume-Scale model). The domain of the Plume-Scale model is a subset of the Site-Scale model domain. The models were linked. The link was established by using simulation results from the Site-Scale model to prescribe the boundary conditions of the Plume-Scale model. Therefore, simulation results from the Site-Scale model, which represents the site-scale hydrogeologic processes and stresses, drive the groundwater flow dynamics of the Plume-Scale model representing local hydrogeologic processes.

This appendix presents details about the construction of each model. Each model is discussed separately. The development of each model is divided into 6 subsections:

(1) Hydrogeologic conceptualization
(2) Simulator
(3) Model Domain
(4) Boundary conditions
(5) Model Calibration
(6) Scenarios

Site-Groundwater Model

The Site-Scale groundwater model was developed to accurately represent and evaluate the hydrogeologic conditions which exist in the shallow subsurface in the southern portion of the facility (south of Cell 11). Simulations at a site-scale provide an efficient means of estimating the primary hydraulic properties and determining the magnitude and direction of groundwater flow for use in the Plume-Scale model. It was also used to predict the hydraulic effects created by the up-gradient dewatering corrective measures alternative. A description of the Site-Scale groundwater model was first presented in the RFI (USPCI, 1994, Appendix F). The up-gradient long-term pump test, outlined in the IM report, was performed to provide detailed hydrogeologic information for use in the Site-Scale numerical model.

Hydrogeologic Conceptual Model

USPCI developed the site-scale hydrogeologic conceptual model from information gathered during the RFI and IM. This conceptual model defines the important hydraulic process and geologic features which control groundwater flow on a site-scale. The controls which were considered in the conceptual model include:

(1) Topographic features
(2) Stratigraphy features,
(3) Hydraulic properties of the geologic material
(4) Anthropogenic stresses
(5) Internal hydraulic controls

Information used in the construction of the model included detailed boring logs, historic groundwater levels, leachate production, and hydrogeologic parameter testing results.

The local topographic features are a strong influence on groundwater flow. Local recharge occurs on top of the bluff located on-site. Precipitation pools in crack and pockets in the gypsum unit which caps the bluff. The locally derived groundwater percolates into underlying claystone. The groundwater moves laterally through the red claystone units until it day-lights (lost to evapotranspiration or becomes surface waster) or migrates vertically into an underlying green claystone. Because the groundwater flow rates are so much slower in the green claystones relative to the red claystones, the groundwater flow direction in the green claystone is primarily vertical. Once the groundwater enters another red claystone, it again begins to move laterally. This type of flow pattern continues until the groundwater either reaches the regional groundwater flow system or it day-lights.

The conceptual model only includes 150 feet of the claystone units directly under the gypsum unit capping the bluff. The hydraulic properties for each of the two claystone types (red and green) are considered to be homogeneous with the exception of the first layer. The first layer of the model incorporates heterogeneity to simulate the effects caused by anthropogenic disturbance of this unit. The heterogeneity results from the addition of sand layers beneath the

cell liners and backfill distributed around the cell areas. The qualitative description of the unit's hydraulic properties were derived from field well bore packer tests and laboratory column tests.

Simulator

A quasi-three-dimensional groundwater flow model was developed using MODFLOW (McDonald and Harbough, 1988). MODFLOW is a groundwater flow simulator developed for the United States Geological Survey (USGS). It has been well tested and documented and is publicly available through a number of model distributors as well as the USGS.

Model Domain

Figure A-1 shows the areal model domain relative to site features. The model boundaries are defined in a manner to ensure that stresses introduced to the system would not have an affect across the model boundaries. The model is bounded to the south and west by the topographic high that exists south of Cells 1 through 8. The northern boundary is aligned parallel to groundwater flow north of these cells. The eastern boundary is set perpendicular to groundwater flow east of Cell 11. The model domain covers an area of approximately 145 acres.

The subsurface of the areal model domain is divided into four hydrogeologic units each of which is discretized into 2,520 finite-difference blocks. Figure A-2 shows the areal model domain divided into 56 rows and 45 columns that represent the finite-difference grid. Each model cell covers an area 50 feet by 50 feet square. The four water bearing units are represented as four distinct layers in the model. Figure A-1 presents the "layer cake" approach used to define each layer.

The first layer consists of native red claystone observed in the bluff south of the landfill cells, sand layers surrounding the landfill cell liners, and backfill used to grade the site. The upper limit of the first layer is defined by the simulated potentiometric surface in this layer. The second layer is defined as the red claystone unit extending from the bottom of the first layer to the first confining green claystone unit. The third layer corresponds to the red claystone between the first and second green claystone layers. The fourth layer corresponds to the red claystone encountered below the second green claystone layer. The confining green claystones are not treated as individual stratigraphic units by the model. These regions are defined only by the properties associated with transmitting fluid vertically between adjacent layers.

Boundary Conditions

The boundary conditions for this model are provided in Figure A-2 The eastern, western, and southern lateral boundaries are prescribed head boundaries. The hydraulic head values for each cell along these boundaries were determined by linear extrapolation of observed water levels measured in monitoring wells and piezometers during recent groundwater monitoring events. The northern lateral boundary is prescribed a no flow boundary as this edge of the model was set parallel with an observed groundwater flow line. A downward gradient of 0.05 (feet/feet)

is prescribed through these lateral boundaries based upon water level data from nearby monitoring well nests. A region of cells up-gradient from the prescribed head cells in the southwestern corner of the model domain are set as no flow cells to remove this area from the simulation.

Groundwater withdrawal within the model domain is limited to the leachate recovery systems. The systems are simulated using drains prescribed in each of the landfill cells. The drains act as a prescribed head set at an elevation corresponding to the elevation of the recovery systems. The drains work as groundwater sinks only if the groundwater elevation in that cell is above the prescribed drain elevation. A total of nine drains are incorporated into the model, one for each landfill cell (Figure A-2). The only other potential groundwater source or sink within the model boundaries is a set of prescribed heads in cells containing the sanitary lagoon and associated retention pond. Seventeen cells are used to simulate the interaction of these surface water features with groundwater flow.

Model Calibration

The Site-Scale groundwater flow model was calibrated using the up-gradient stress test data. A qualitative calibration was achieved by matching observed draw-downs in the area of the up-gradient stress test. Hydraulic conductivities were modified to produce the match.

Figure A-3 presents the simulated potentiometric surface in the first model layer from the site groundwater model. The model simulates the potentiometric surface observed above the first green claystone unit reasonably well. The model results were compared to water levels from existing monitoring wells screened in this layer. Table A-1 shows that the average difference in simulated heads versus actual heads is under five feet. The residual errors in modelled versus actual heads were smallest in the area of Cell 5. The largest discrepancies were found towards the model boundaries.

Scenarios

The Site-Scale groundwater model was used to determine the effectiveness of up-gradient dewatering corrective measures alternatives. The goal of the alternative was to significantly dewater the water-bearing zone above the First Green Claystone. USPCI used the calibrated model to determine what the optimum number of extraction points would be and estimate the potential extraction rate. Numerous extraction scenarios were evaluated. The number and location of extraction points were varied as well as the depths and production rates of the extraction points. The effect of dewatering on the existing monitoring network at the facility also had to be considered.

The extraction wells were represented by nodal groundwater production in the form of prescribed heads. The heads were prescribed by placing drains in first and second layer cells located up-gradient of the zone resenting the landfill cells. The model simulated groundwater production from the upper red claystone unit south of the cells.

The dewatering evaluations indicated that a system containing thirty-five extraction points producing a total of 600 gallons per day (gpd; 17 gpd per extraction point) would actively dewater the leachate recovery systems in the nine landfill cells. It would not dewater the water-bearing zone above the First Green Claystone. The simulated potentiometric surface and location of the extraction points is presented in Figure A-2.

Due to the marginal permeability of the native materials, the extraction points must be placed relatively close to one another to be effective at dewatering. This evaluation indicates a minimum distance of 50 feet between extraction points would be required to produce significant drawdown under Cell 5 (Figure A-4). Drawdowns in excess of 60 feet (Figure A-5) are created when changing the potentiometric surface only a couple of feet in the area down-gradient of Cell 5.

The expected change in the water table does not adversely affect the existing detection monitoring network at the facility. The simulated water table associated with the extraction network was compared to monitoring well screened intervals. There were no instances where the simulated water table was below the screen interval.

Plume-Scale Solute Fate and Transport Model

The Plume-Scale solute fate and transport model was developed to accurately represent and evaluate the hydrogeologic conditions which exist in shallow subsurface in the area near Cell 5. The Plume-Scale model was used to simulate the effects of various corrective measures alternatives. The Plume-Scale Model is a telescopic mesh refinement of the Site-Scale model (Figure A-6).

Hydrogeologic Conceptual Model

Based upon the data gathered during the RCRA Facility Investigation (RFI) and the Interim Measure (IM), USPCI has developed a detailed hydrogeologic conceptual model of the hydrocarbon impacted area near Cell 5. The conceptual model focuses on the hydrogeology of the First Green Claystone because the vast majority of the contaminant is contained in this unit.

The water bearing-zone above the First Green Claystone exhibits characteristics of a hydraulically confined system. In the shallow subsurface near Cell 5, observations made during investigative drilling indicate that the uppermost 10 feet of the natural geologic material is unsaturated. Once the saturated zone is penetrated, water levels rise to a level which almost reaches the ground surface.

In the area east of Cell 5, a network of local secondary permeability controls the movement of groundwater and solutes. The secondary permeability is associated with an interconnected network of vein and veinlets which at one time were filled with gypsum. Over time, locally derived, relatively fresh groundwater (low total dissolved solids) migrated into these fissures and dissolved the soluble gypsum. The resulting zone of higher permeability behaves like a relatively permeable geologic material. True discrete fractures create a much narrower influence. The volume of water passing through these zones of relatively high permeabilities is still controlled by the very low permeability of the primary matrix.

The distribution of solute-phase contaminant is controlled by:

(1) The location of the contaminant source
(2) The orientation and connectiveness of the effective high permeability zones.

The contaminant source migrated into a stratigraphic low located in the upper surface of the First Green Claystone. It was likely transported by way of a very thin seam between the upper Red Claystone and the First Green Claystone. The distribution of the contaminant source has been well defined by the investigative drilling performed (See RFI and IM reports).

The long-term hydraulic stress provided by the carefully placed Interim Measure (pumping of RFI-14) has delineated the connected high permeability zones near Cell 5. The information gathered from the stress, coupled with information gathered during drilling and monitoring of the 19 monitor wells, provides details on the migration potential of the solute-phase contaminant.

Simulator

USPCI chose the simulator SWIFT III (GeoTrans, 1990) to model the plume-scale solute fate and transport process which occur at the site. SWIFT is a three-dimensional, transient, finite-difference simulator which solves the coupled equations for transport in a porous media. The processes considered include:

(1) Fluid flow
(2) Heat Transport
(3) Brine migration
(4) Trace-species migration

This simulator was developed and maintained for use by Sandia National Laboratories under sponsorship by the Nuclear Regulatory Commission. SWIFT III has been extensively tested and is well documented.

SWIFT III can simulate the migration of trace species in a fractured porous media. It can simulate movement using either a dual-porosity or discrete fracture approach. This algorithm couples solute chain decay, reversible sorption, and mechanical dispersion processes with the bulk groundwater movement to estimate the migration of particular solutes.

Model Domain

Swift III subdivides the area of interest into three-dimensional finite-difference blocks prescribed by the user. These block comprise the finite-difference domain.

USPCI developed the Plume-Scale model which represented an area of approximately 13.7 acres (850 feet by 700 feet; see Figure A-7). This domain encompassed the old surface water impoundment and included the area near the North Office. The water-bearing zone in this area was assumed to be 10 feet thick.

The domain was divided into 9,450 finite difference blocks, 42 rows, 45 columns, and 5 layers. These rectangular blocks varied in size depending on their proximity to the contaminant. The smallest block was 10 feet by 10 feet by 2 feet. Blocks of this size are found in areas of the model that had contaminant. The largest blocks were 100 feet by 50 feet by 2 feet and are located on the periphery of the model.

Model Boundary Conditions

Two types of boundary conditions were used for the Plume-scale model. No-flow boundaries were used for the upper and lower surfaces. The addition from the lower water bearing units and from percolation from precipitation are negligible compared to the lateral recharge.

The lateral external boundary conditions contribute the entire groundwater mass that passes the Plume-scale model. The lateral boundaries were prescribed constant head boundaries. These prescribed heads were derived from the Site-Scale groundwater model. Hydraulic heads derived from results of the Site-Scale steady-state groundwater model were interpolated and assigned to the appropriate corresponding Plume-Scale model cells. The hydraulic heads were assumed to be static throughout the water-bearing zone.

Model Calibration

The Plume-Scale model was carefully calibrated to observed conditions so that it could predict the hydraulic effects produced by the various scenarios. Two different calibrations were performed. USPCI calibrated the model to reproduce observed groundwater flow velocities and then calibrated the model to reproduce the distribution of the solute-phase contaminant.

The groundwater flow velocities were calibrated by matching the effects from the hydraulic stress created by the pumping of RFI-14. We used the potentiometric surface observed in April, 1996 as a representative sample of the effects from pumping RFI-14.

The first calibration goal was to simulate the observed heads in each monitoring well within 0.8 feet, with an overall average difference (observed versus simulated) of less than 0.5 feet. There is 25 feet of hydraulic head change observed in the area of the plume. A difference of 0.5 between the simulated and observed heads translates to 2 percent of the observed change in hydraulic head in the area.

To achieve the goal, USPCI first estimated a hydraulic conductivity distribution that would generally reproduce the observed effects from pumping. The model was used to simulate the effects from pumping 0.2 gallons per minute (gpm) out of a node representing RFI-14. The resulting hydraulic heads from this simulation were compared to observed heads. The differences were evaluated and appropriate modifications in the hydraulic conductivities were made. The process was methodically repeated until the goal was achieved. The final hydraulic conductivity distribution is presented in Figure A-7. The resulting simulated potentiometric surface is compared to the observed surface in Figure A-8.

The second stage of calibration focused on reproducing the observed distribution of the solute-phase plume. A contaminant source was prescribed which generally represents the observed distribution. The source concentration was prescribed to be 3.0 mg/l. The model was designed to simulate four solute fate and transport process:

(1) Advection
(2) Mechanical dispersion
(3) Mass degradation
(4) Molecular diffusion

Sorption was also considered. The longitudinal and transverse dispersivity factors were both assumed to be 10 feet. In a hydrologic environment controlled by secondary permeabilities, dispersion can act equally in all directions. The molecular diffusion rate was assumed to be 5.167×10^{-10} ft^2/day.

The mass degradation rate was used to calibrate the model. Since this calibration was not intended to precisely predict the concentrations at monitoring wells, no specific calibration goal was established. A qualitative match was the goal. The mass degradation rate was varied to achieve the match. A mass half-life of 200 days was used to produce the results shown in Figure A-9.

Scenarios

Five different scenarios were simulated using the calibrated Plume-Scale model. The results from the scenarios are presented in the CMS report. Each extraction scenario was simulated using prescribe flux nodes at the appropriate locations. For the purposes of the trench scenarios, an iterative process was performed to optimize the flux removed from each trench node. For all scenarios, fluids were removed from the cell node having the lowermost elevation.

TABLE A-1

Site Groundwater Model

Residual Error in Potentiometric Surface Elevations

WELL	MODEL CELL		POTENTIOMETRIC SURFACE (ft)		Residual
	I	J	MODEL	Jan-96	Error (ft)
MW-1A	20	5	1450.85	1439.53	11.32
MW2-B	41	5	1446.83	1440.12	6.71
MW4A-1	15	20	1402.49	1406.31	3.82
MW4A-2	15	20	1402.29	1407.76	5.47
MW5A-1	23	31	1388.88	1387.15	1.73
MW5A-2	27	31	1387.83	1382.31	5.52
MW5A-3	25	31	1388.11	1384.45	3.66
MW8A-1	36	26	1393.96	1392.24	1.72
MW8A-2	39	27	1393.36	1390.58	2.78
MW8A-3	37	26	1394.04	1391.31	2.73
MW11A-1	38	41	1379.01	1376.66	2.35
OW-4	26	3	1454.41	1443.34	11.07
OW-8	20	26	1394.13	1398.14	4.01
PZ-1	11	24	1394.6	1390.28	4.32
PZ-3	39	3	1455.87	1450.36	5.51
				Average Residual Error	4.85

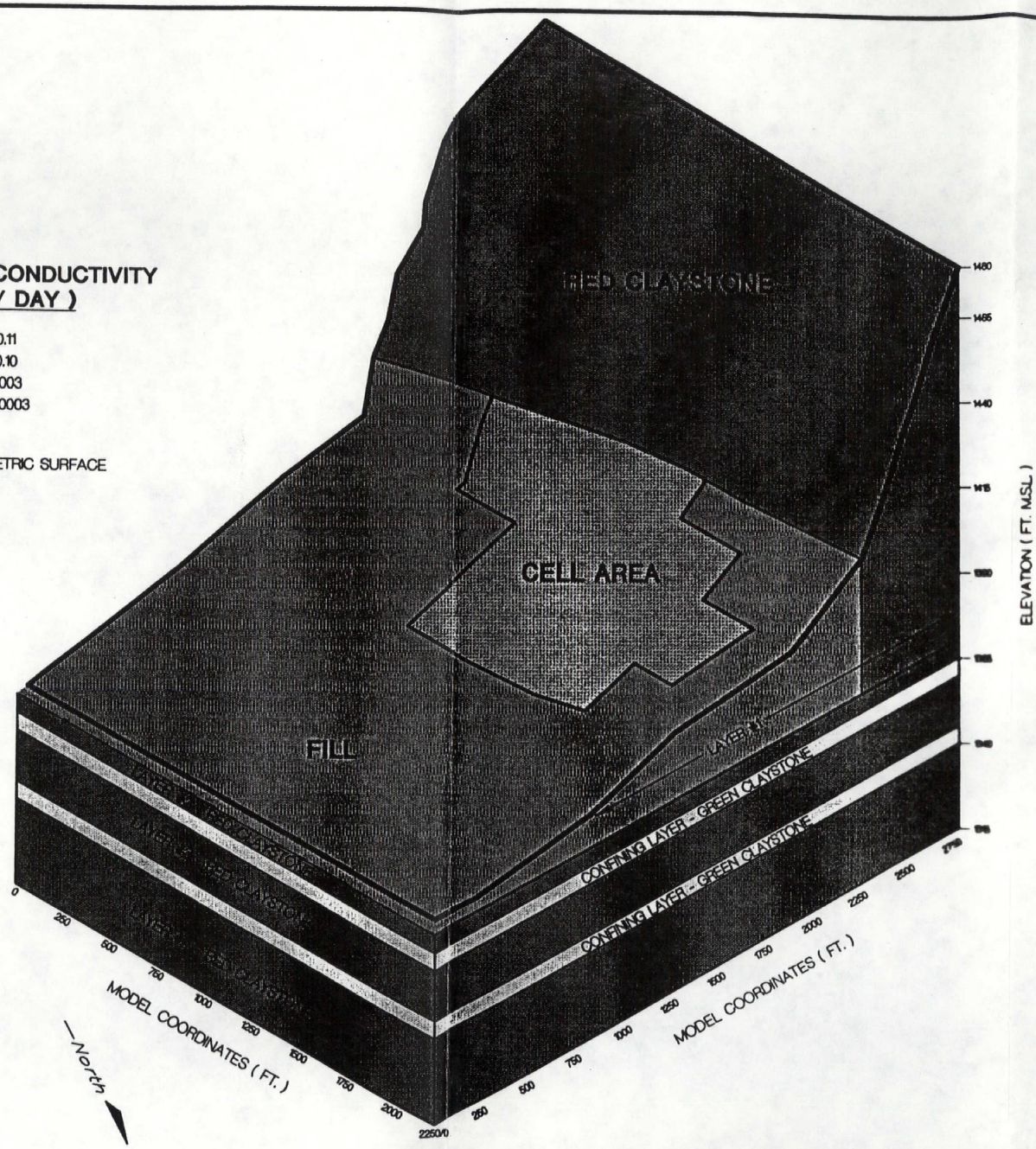
TABLE A-2: RESIDUALS FOR PLUME-SCALE NUMERICAL MODEL

WELL NAME	OBSERVED HEAD (ft)	PREDICTED HEAD (ft)	RESIDUAL (ft)
RFI-2A	1378.170	1377.802	0.369
RFI-3A	1377.240	1376.520	0.720
RFI-4A	1375.590	1376.148	-0.558
RFI-5	1377.290	1376.790	0.500
RFI-6	1376.130	1376.794	-0.664
RFI-7	1376.520	1377.024	-0.504
RFI-8	1379.000	1378.284	0.716
RFI-9	1377.380	1377.848	-0.468
RFI-10	1379.410	1379.615	-0.204
RFI-11	1375.420	1374.855	0.565
RFI-12	1376.250	1375.557	0.693
RFI-13	1375.150	1374.851	0.299
RFI-14	1369.720	1369.561	0.159
RFI-15	1374.190	1374.858	-0.668
RFI-18	1376.460	1375.666	0.794
RFI-19	1375.610	1374.863	0.747
AVERAGE RESIDUAL (ft)			0.454

Note: Residual = Observed Head – Simulated Head

SIMULATED POROUS MEDIA	HYDRAULIC CONDUCTIVITY (FT. / DAY)
SAND IN CELL AREAS	0.11
BACKFILL	0.10
RED CLAYSTONE	0.003
GREEN CLAYSTONE	0.00003

SIMULATED POTENTIOMETRIC SURFACE



	BY	DATE
DRAWN	CJJ	10/4/96
DET UP	LS	
APPROVED		
APPROVED		
APPROVED		

USPCI
A LAIDLAW COMPANY

LONE MOUNTAIN FACILITY

FIGURE A-1
SITE GROUNDWATER MODEL

SCALE: 1" = 40'

DWG. NO: 96328-28

Figure A-2: Site-Scale Groundwater Model Grid (Areal View)

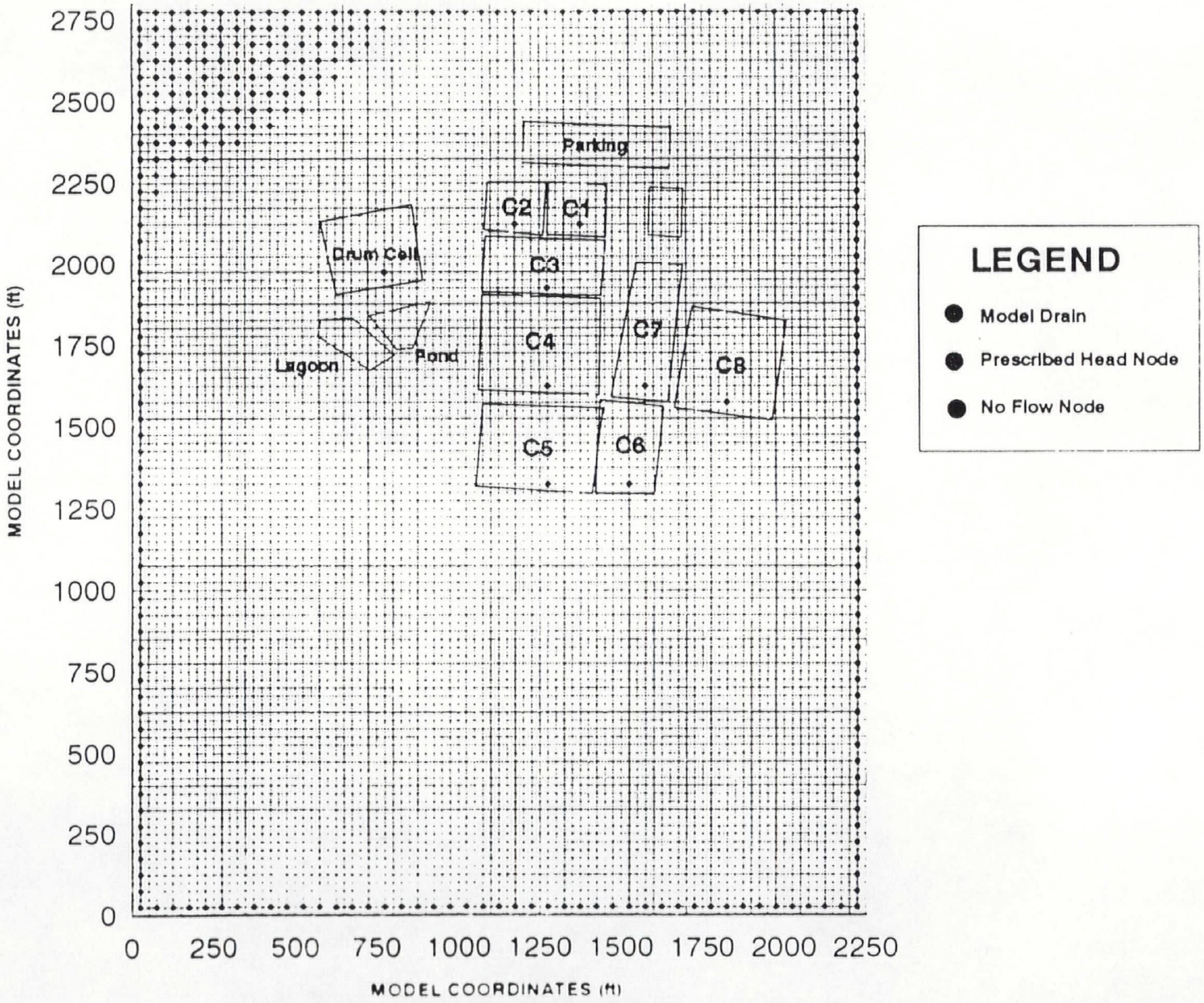


Figure A-3: Site-Scale Groundwater Model Results

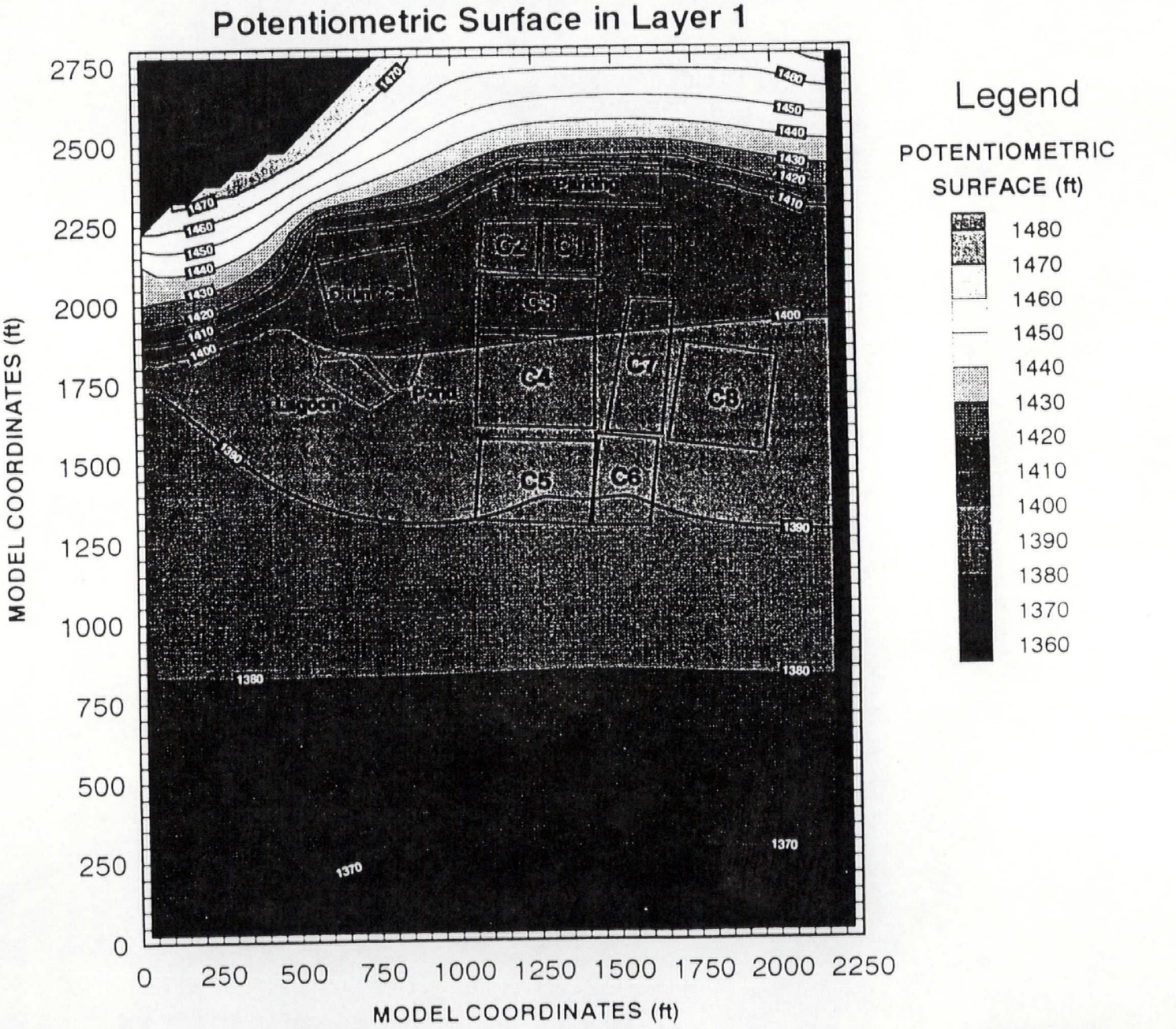


Figure A-4: Site-Scale Groundwater Model Up-gradient Dewatering Results

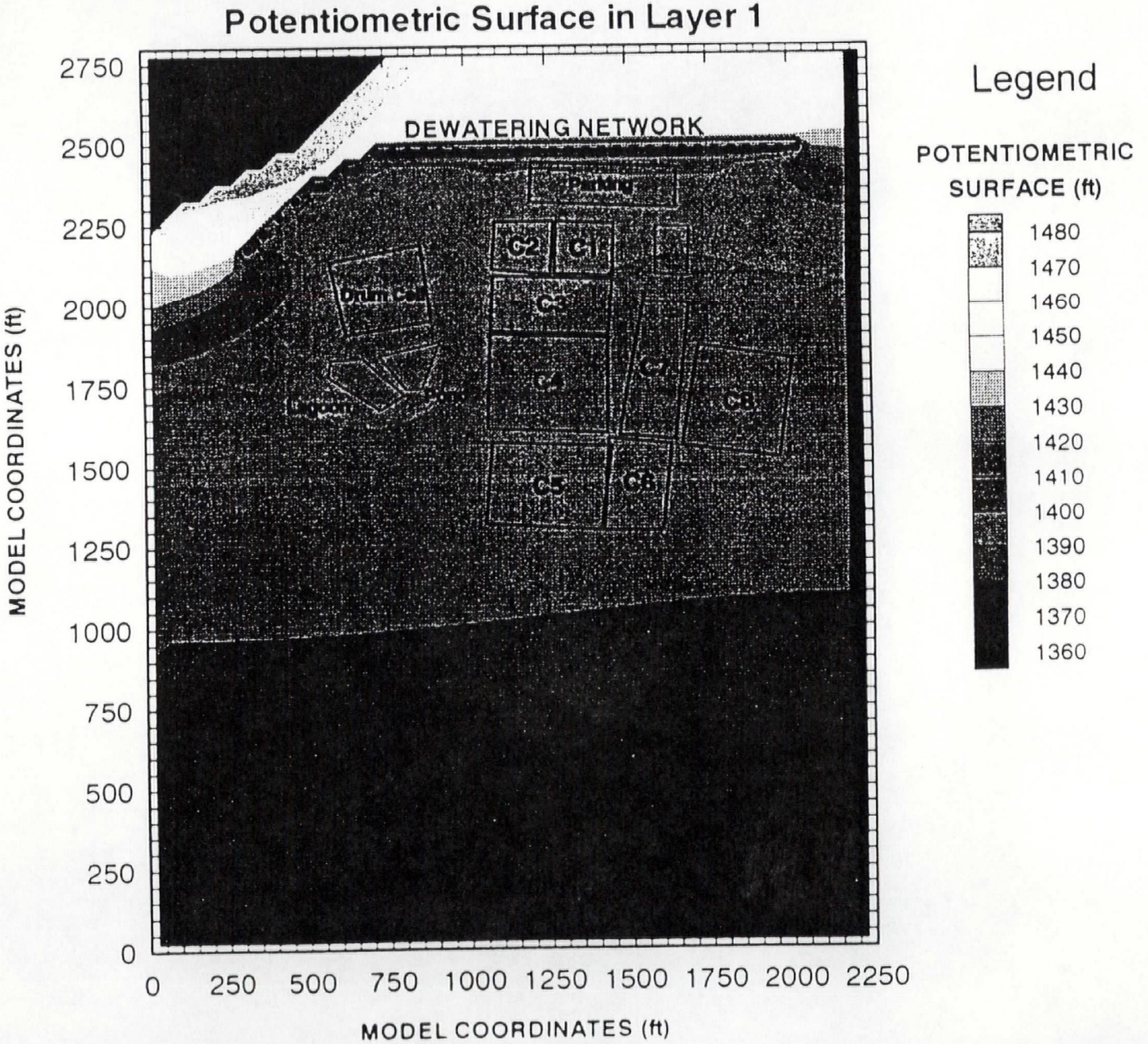
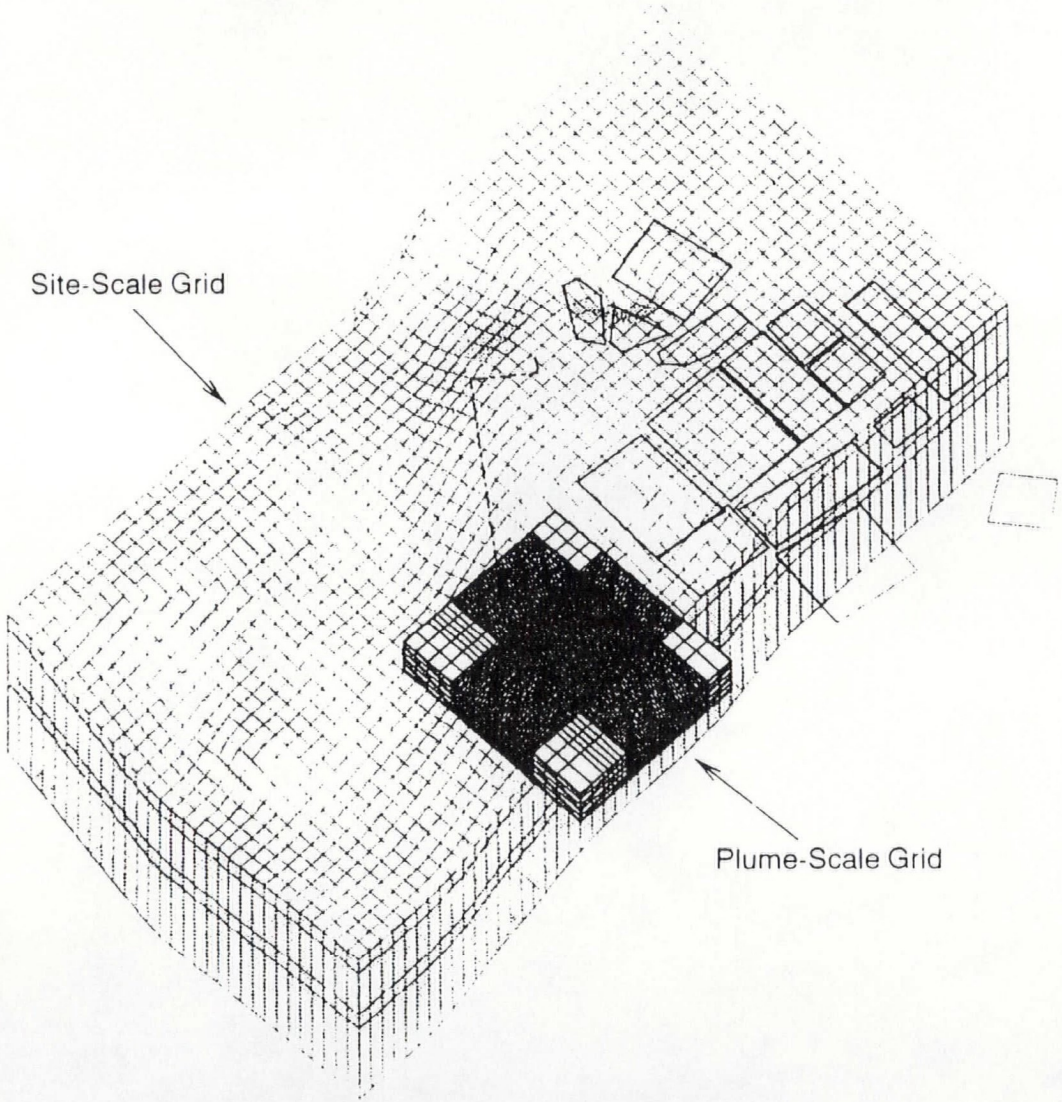
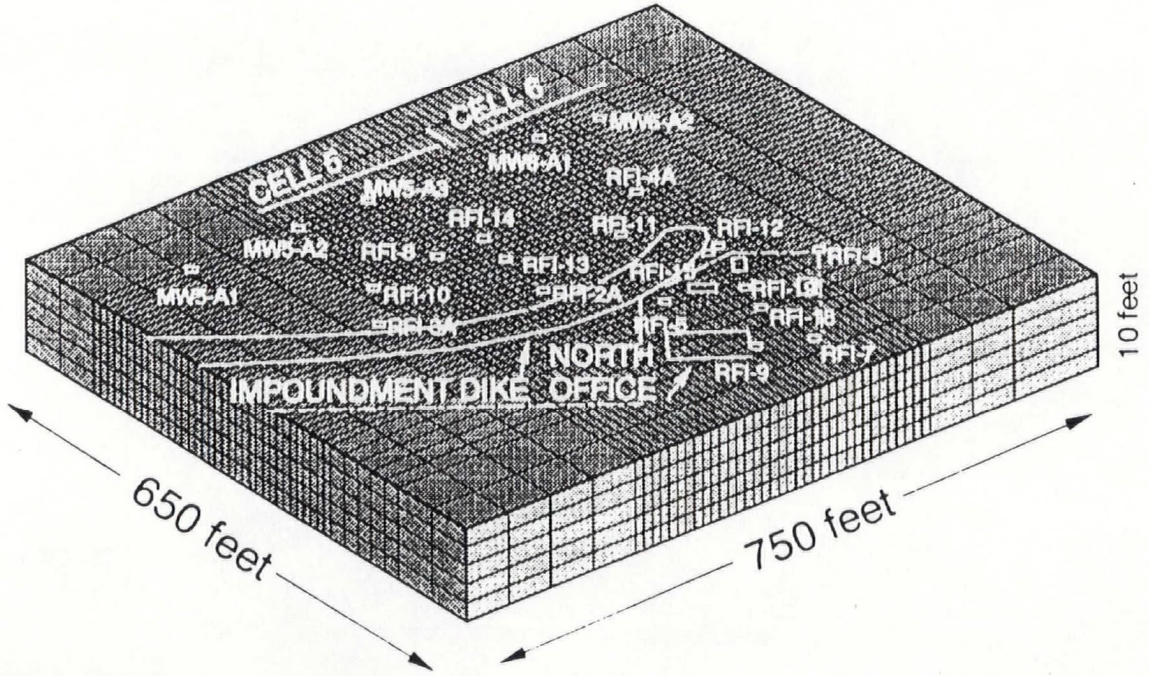


Figure A-5: Relationship Between Site-Scale Grid and Plum-Scale Grid



* Site-Scale Grid Cut Away to Show Plume-Scale Grid

Figure A-6: Plume-Scale Model Finite Differance Grid



* Vertically Exaggerated

Figure A-7: Plume-Scale Model Calibrated Hydaulic Conductivity Zones

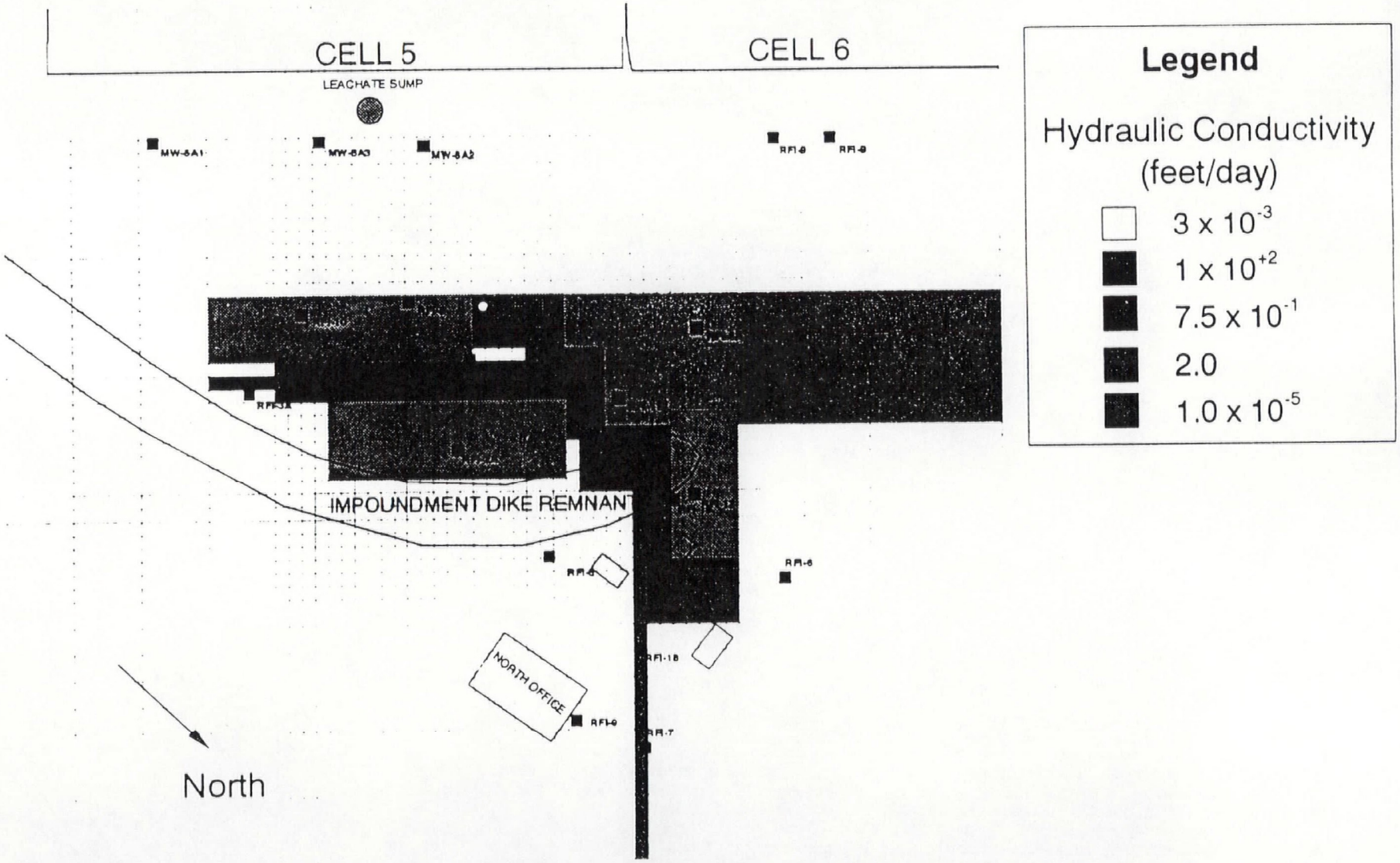
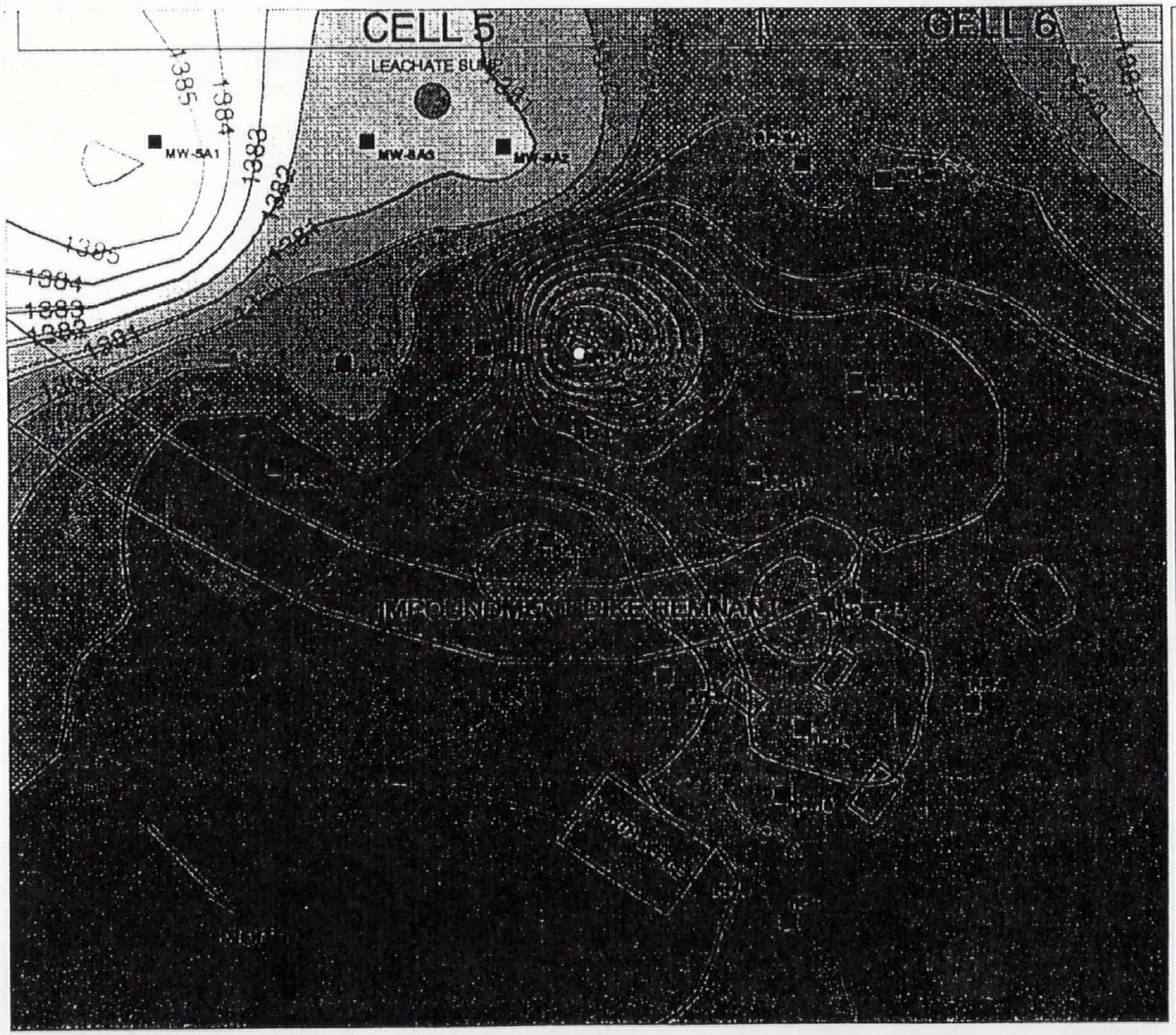


Figure A-8: Lone Mountain Cell 5 CMS
Comparison Between Observed Heads (3/27/96) and Plume Scale Model Simulated Heads



Legend

Measured Water Level Contours
(ft, MSL)

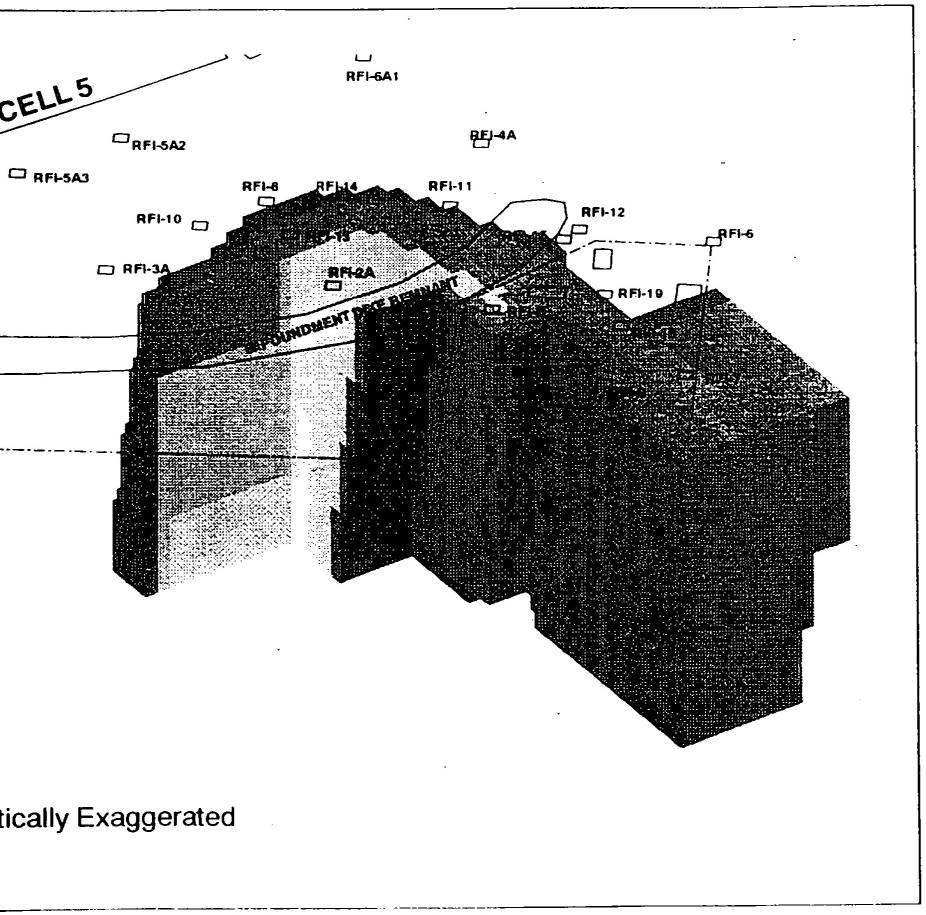
1393
1392
1391
1390
1389
1388
1387
1386
1385
1384
1383
1382
1381
1380
1379
1378
1377
1376
1375
1374
1373
1372
1371
1370
1369
1368
1367
1366
1365
1364
1363

Simulated Water Level Contours
(ft, MSL)

1376

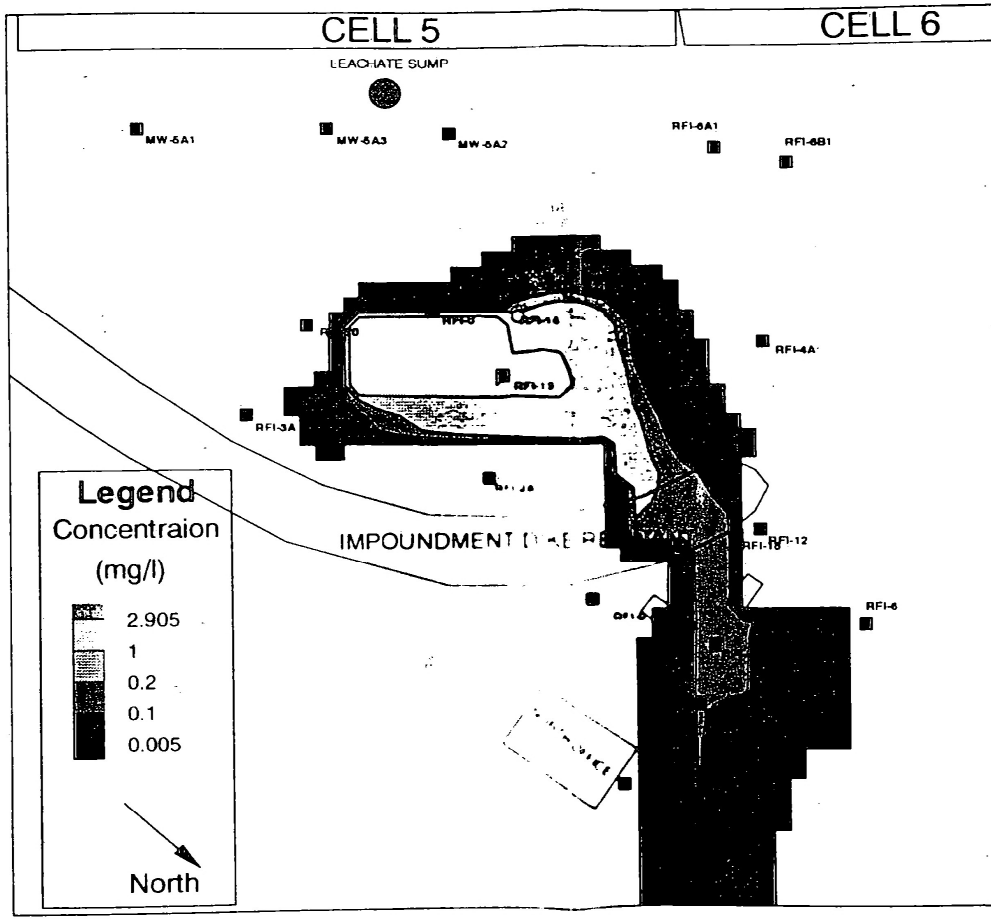
Figure A-9: Lone Mountian Cell 5 PCE Distributions

Three Dimentional PCE Distribution



tically Exaggerated

Two Dimentional PCE Distribution



APPENDIX 3.14

INORGANIC DETECTION MONITORING RESULTS DATA SUMMARY (1999-2020)

Appendix 3.14: Summary of Detections
Well Group: Upgradient Wells Well: MW 1A
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	110.0	<0.01	<0.02	<0.003	<0.001	710.0	2500.0	<0.07	<0.01	120.0	<0.002	N/A	<0.02	4600.0	21.6
10/1999	43.7	<0.01	<0.02	<0.003	<0.001	657.0	6920.0	<0.07	<0.01	130.0	<0.002	N/A	<0.02	5010.0	26.7
4/2000	74.6	<0.01	<0.02	<0.003	<0.001	626.0	2640.0	<0.07	<0.01	124.0	<0.002	N/A	0.025	3170.0	20.2
10/2000	45.0	<0.01	<0.02	<0.006	<0.004	730.0	6380.0	<0.07	<0.01	147.0	<0.002	N/A	0.023	5280.0	N/A
4/2001	63.1	<0.01	<0.02	<0.006	<0.004	582.0	3530.0	<0.07	<0.01	115.0	<0.002	N/A	0.024	3590.0	N/A
10/2001	46.7	<0.01	<0.02	<0.006	<0.004	715.0	6350.0	<0.07	<0.01	144.0	<0.002	N/A	0.022	5270.0	N/A
4/2003	76.0	<0.01	<0.02	<0.006	<0.004	620.0	2500.0	<0.07	<0.01	140.0	<0.002	N/A	0.036	1600.0	N/A
10/2003	47.0	<0.01	<0.02	<0.006	<0.004	650.0	6200.0	<0.07	<0.01	130.0	<0.002	N/A	0.04	4300.0	N/A
4/2004	66.0	<0.01	<0.02	<0.006	<0.004	620.0	2000.0	<0.07	<0.01	140.0	<0.002	N/A	0.033	1600.0	N/A
10/2004	52.0	<0.01	<0.02	<0.006	<0.004	700.0	4800.0	<0.07	<0.01	130.0	<0.002	N/A	0.023	4400.0	2.88
4/2005	82.0	<0.01	<0.02	<0.006	<0.004	620.0	2100.0	<0.07	<0.01	140.0	<0.002	N/A	0.026	1700.0	23.3
10/2005	44.0	<0.01	<0.02	<0.006	<0.004	760.0	6600.0	<0.07	<0.01	150.0	<0.002	N/A	0.041	5000.0	27.6
4/2007	56.0	<0.01	<0.02	<0.006	<0.004	510.0	690.0	<0.07	<0.01	120.0	<0.002	N/A	0.021	710.0	0.0054
10/2007	50.0	<0.01	<0.02	<0.006	<0.004	690.0	4800.0	<0.07	<0.01	130.0	<0.002	N/A	0.03	4600.0	N/A
4/2008	77.0	<0.01	<0.02	<0.006	<0.004	610.0	2200.0	<0.07	<0.01	130.0	<0.002	N/A	0.029	2200.0	0.0015
10/2008	41.4	0.0535	<0.2	<0.008	<0.005	673.0	5410.0	<0.01	<0.01	113.0	<0.001	N/A	<0.02	7600.0	0.0242
4/2009	105.0	<0.02	<0.02	<0.006	<0.004	601.0	1690.0	<0.07	<0.02	127.0	<0.002	N/A	<0.04	1810.0	11.61
10/2009	86.2	<0.05	<1.0	<0.02	<0.025	710.0	2810.0	<0.05	<0.025	152.0	<0.001	N/A	<0.05	2030.0	3.03
4/2010	66.0	<0.12	<0.02	<0.006	<0.004	680.0	4800.0	<0.01	<0.025	140.0	<0.002	N/A	<0.12	5200.0	29.0
10/2010	43.0	<0.1	<0.02	<0.006	<0.004	700.0	7600.0	<0.01	<0.02	140.0	<0.002	N/A	<0.094	3600.0	22.89
4/2011	49.0	<0.2	<0.02	<0.006	<0.004	640.0	6900.0	<0.01	<0.2	120.0	<0.002	N/A	<0.094	4100.0	N/A
10/2011	54.0	<0.0047	<0.02	<0.006	<0.004	640.0	6000.0	<0.01	<0.001	120.0	<0.002	N/A	0.021	4500.0	N/A
4/2012	78.0	0.005	0.011	<0.006	<0.004	560.0	2700.0	0.0021	0.0003	130.0	0.0	N/A	0.015	2000.0	N/A
10/2012	60.5	<0.05	<0.1	<0.03	<0.02	687.0	4680.0	<0.35	<0.05	132.0	<0.0005	N/A	<0.1	3230.0	14.6
4/2013	73.8	<0.01	<0.02	<0.006	<0.008	583.0	809.0	<0.14	<0.02	133.0	<0.002	N/A	<0.01	719.0	N/A
10/2013	68.4	<0.01	<0.02	<0.006	<0.004	550.0	3530.0	<0.07	<0.01	105.0	<0.0005	N/A	0.0212	2830.0	15.3
4/2014	82.3	<0.05	<0.1	<0.03	<0.02	620.0	2910.0	<0.35	<0.05	125.0	<0.002	N/A	<0.1	2070.0	N/A
10/2014	71.7	<0.05	<0.1	<0.03	<0.02	831.0	4770.0	<0.35	<0.05	158.0	<0.0005	N/A	<0.1	3850.0	N/A
4/2015	54.1	<0.05	<0.1	<0.03	<0.02	819.0	3120.0	<0.35	<0.05	151.0	<0.002	N/A	<0.1	3800.0	N/A
10/2015	54.6	<0.05	<0.1	<0.03	<0.02	822.0	5960.0	<0.35	<0.05	151.0	<0.0005	N/A	<0.1	5150.0	N/A
4/2016	52.8	<0.05	<0.1	<0.03	<0.02	755.0	5370.0	<0.35	<0.05	144.0	<0.0005	N/A	<0.1	4350.0	N/A
10/2016	53.1	<0.05	<0.1	<0.03	<0.02	718.0	5800.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	87.5	<0.05	<0.1	<0.03	<0.02	625.0	1730.0	<0.35	<0.05	148.0	<0.002	N/A	<0.1	1450.0	N/A
10/2017	48.5	<0.05	<0.1	<0.03	<0.02	799.0	6490.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
10/2018	106.0	<0.05	<0.1	<0.03	<0.02	687.0	3090.0	<0.35	<0.05	155.0	<0.0005	N/A	<0.1	2040.0	N/A
4/2019	N/A	0.0102	0.0153	<0.004	0.0007	661.0	8480.0	<0.01	<0.01	139.0	<0.0002	N/A	0.0217	3730.0	N/A
10/2019	N/A	<0.05	<0.05	<0.02	<0.025	591.0	7770.0	<0.05	<0.05	119.0	<0.0002	N/A	<0.05	5420.0	N/A
4/2020	N/A	<0.01	0.0205	<0.004	<0.005	522.0	6270.0	<0.01	<0.01	105.0	<0.0002	N/A	0.0156	3510.0	20.4

Minimum	41.4000	0.0024	0.0100	0.0015	0.0005	510.0000	690.0000	0.0021	0.0003	105.0000	0.0000		0.0050	710.0000	0.0015
Maximum	110.0000	0.1000	0.5000	0.0150	0.0125	831.0000	8480.0000	0.1750	0.1000	158.0000	0.0010		0.0600	7600.0000	29.0000
Mean	64.4722	0.0176	0.0364	0.0063	0.0045	664.2051	4358.9487	0.0645	0.0135	133.7027	0.0007		0.0323	3432.4054	14.9463
Median	58.2500	0.0050	0.0100	0.0030	0.0020	657.0000	4770.0000	0.0350	0.0050	132.0000	0.0010		0.0290	3600.0000	17.7500
Std. Dev.	18.7701	0.0199	0.0791	0.0055	0.0041	79.1116	2144.7136	0.0671	0.0169	13.9660	0.0004		0.0150	1609.8870	10.6411

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Upgradient Wells Well: MW 1B
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	32.0	0.043	<0.02	<0.003	<0.001	860.0	12000.0	<0.07	<0.01	70.0	<0.002	N/A	<0.02	9500.0	32.5
10/1999	21.2	0.097	<0.02	<0.003	<0.001	863.0	20000.0	<0.07	<0.01	91.8	<0.002	N/A	0.048	12100.0	49.1
4/2000	33.0	0.072	0.023	0.0059	<0.001	999.0	15900.0	<0.07	<0.01	104.0	<0.002	N/A	<0.02	11900.0	44.4
10/2000	27.8	0.052	0.022	<0.006	<0.004	866.0	13700.0	<0.07	<0.01	69.1	<0.002	N/A	<0.02	9620.0	N/A
4/2001	31.7	0.049	<0.02	<0.006	<0.004	897.0	12100.0	<0.07	<0.01	77.1	<0.002	N/A	0.036	9890.0	N/A
10/2001	20.1	0.11	<0.02	<0.006	<0.004	972.0	18700.0	<0.07	<0.01	116.0	<0.002	N/A	<0.02	12200.0	N/A
4/2002	21.9	0.12	0.026	<0.006	<0.004	1280.0	27900.0	<0.07	<0.01	207.0	<0.002	N/A	0.068	20100.0	N/A
10/2002	<2.0	0.11	0.03	<0.006	<0.004	1200.0	28000.0	<0.07	<0.01	240.0	<0.002	N/A	0.041	19000.0	N/A
4/2003	36.0	0.1	<0.02	<0.006	<0.004	800.0	13000.0	<0.07	<0.01	130.0	<0.002	N/A	0.027	9800.0	N/A
10/2003	27.0	0.079	0.021	<0.006	<0.004	870.0	16000.0	<0.07	<0.01	140.0	<0.002	N/A	0.038	12000.0	N/A
4/2004	40.0	0.094	<0.02	<0.006	<0.004	820.0	15000.0	<0.07	<0.01	130.0	<0.002	N/A	0.024	11000.0	N/A
10/2004	27.0	0.064	<0.02	<0.006	<0.004	760.0	20000.0	<0.07	<0.01	100.0	<0.002	N/A	<0.02	8100.0	3.75
4/2005	31.0	0.074	<0.02	<0.006	<0.004	770.0	9000.0	<0.07	<0.01	120.0	<0.002	N/A	<0.02	8800.0	36.2
10/2005	27.0	0.061	<0.02	<0.006	<0.004	810.0	19000.0	<0.07	<0.01	120.0	<0.002	N/A	0.04	9300.0	41.5
4/2006	41.0	0.092	0.031	0.007	<0.004	1200.0	20000.0	<0.07	<0.01	200.0	<0.002	N/A	0.028	17000.0	0.0517
10/2006	28.0	0.11	0.032	<0.03	<0.009	1000.0	28000.0	<0.07	<0.01	210.0	<0.002	N/A	0.021	17000.0	0.0742
4/2007	74.0	0.05	<0.02	<0.006	<0.004	480.0	7200.0	<0.07	<0.01	130.0	<0.002	N/A	0.078	5500.0	0.0292
10/2007	34.0	0.1	0.022	<0.006	<0.004	920.0	20000.0	<0.07	<0.01	130.0	<0.002	N/A	0.047	11000.0	N/A
4/2008	44.0	0.045	<0.02	<0.006	<0.004	630.0	7400.0	<0.07	<0.01	130.0	<0.002	N/A	0.026	6300.0	0.0027
10/2008	33.5	0.0546	<0.2	<0.008	<0.005	658.0	13800.0	<0.01	<0.01	120.0	<0.001	N/A	<0.02	6470.0	0.028
4/2009	71.8	0.0326	<0.02	<0.006	<0.004	598.0	5520.0	<0.07	<0.02	132.0	<0.002	N/A	<0.04	4040.0	30.62
10/2009	88.0	<0.05	<1.0	<0.02	<0.025	607.0	5810.0	<0.05	<0.025	143.0	<0.001	N/A	<0.05	4060.0	3.26
4/2010	63.0	<0.12	<0.02	<0.006	<0.004	510.0	8700.0	<0.01	<0.025	130.0	<0.002	N/A	<0.12	4600.0	41.62
10/2010	33.0	<0.1	<0.02	<0.006	<0.02	740.0	12000.0	<0.05	<0.02	140.0	<0.002	N/A	<0.094	10000.0	32.82
4/2011	56.0	<0.2	<0.02	<0.006	<0.004	710.0	16000.0	<0.01	<0.2	130.0	<0.002	N/A	<0.094	8700.0	N/A
10/2011	52.0	0.078	<0.04	<0.012	<0.008	1000.0	15000.0	<0.02	<0.001	180.0	<0.002	N/A	0.0057	12000.0	N/A
4/2012	120.0	0.046	0.014	<0.006	<0.004	630.0	8900.0	<0.01	<0.001	150.0	0.0	N/A	0.02	7500.0	N/A
10/2012	80.2	0.0718	<0.1	<0.03	<0.02	805.0	14300.0	<0.35	<0.05	162.0	<0.0005	N/A	<0.1	8800.0	31.8
4/2013	114.0	0.0488	<0.02	<0.006	<0.008	683.0	6930.0	<0.14	<0.02	149.0	<0.002	N/A	0.0486	6220.0	N/A
10/2013	81.5	0.096	<0.02	<0.006	<0.004	724.0	13400.0	<0.07	<0.01	143.0	<0.0005	N/A	<0.02	10000.0	39.9
4/2014	111.0	0.0855	<0.1	<0.03	<0.02	840.0	11700.0	<0.35	<0.05	170.0	<0.002	N/A	<0.1	9830.0	N/A
10/2014	101.0	0.0845	<0.1	<0.03	<0.02	938.0	11500.0	<0.35	<0.05	189.0	<0.0005	N/A	<0.1	10300.0	N/A
4/2015	108.0	0.0696	<0.1	<0.03	<0.02	822.0	12800.0	<0.35	<0.05	167.0	<0.002	N/A	<0.1	8560.0	N/A
10/2015	111.0	<0.05	<0.1	<0.03	<0.02	798.0	12700.0	<0.35	<0.05	170.0	<0.0005	N/A	<0.1	7890.0	N/A
4/2016	111.0	<0.05	<0.1	<0.03	<0.02	760.0	8880.0	<0.35	<0.05	163.0	<0.0005	N/A	<0.1	7180.0	N/A
10/2016	94.1	0.0741	<0.1	<0.03	<0.02	826.0	14800.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	158.0	<0.05	<0.1	<0.03	<0.02	606.0	2540.0	<0.35	<0.05	156.0	<0.002	N/A	<0.1	4160.0	N/A
10/2017	95.0	0.0681	<0.1	<0.03	<0.02	831.0	13900.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	91.8	<0.05	<0.1	<0.03	<0.02	992.0	12200.0	<0.35	<0.05	207.0	<0.002	N/A	<0.1	10700.0	N/A
10/2018	73.4	0.0621	<0.1	<0.03	<0.02	1190.0	22300.0	<0.35	<0.05	232.0	<0.0005	N/A	<0.1	9300.0	N/A
4/2019	N/A	0.107	0.0268	0.0033	<0.025	1210.0	40700.0	<0.05	<0.05	269.0	<0.001	N/A	<0.05	16400.0	N/A
10/2019	N/A	0.108	<0.05	<0.02	<0.025	1190.0	32600.0	<0.05	<0.05	243.0	<0.0002	N/A	<0.05	18800.0	N/A
4/2020	N/A	0.0912	0.122	<0.02	<0.025	1240.0	32500.0	<0.05	<0.05	271.0	<0.0002	N/A	<0.05	20000.0	69.9

Minimum	1.0000	0.0250	0.0100	0.0015	0.0005	480.0000	2540.0000	0.0050	0.0005	69.1000	0.0000		0.0057	4040.0000	0.0027
Maximum	158.0000	0.1200	0.5000	0.0150	0.0125	1280.0000	40700.0000	0.1750	0.1000	271.0000	0.0010		0.0780	20100.0000	69.9000
Mean	61.1250	0.0706	0.0403	0.0070	0.0053	858.2558	15636.7442	0.0671	0.0142	154.4146	0.0008		0.0349	10380.9756	25.4198
Median	48.0000	0.0718	0.0220	0.0030	0.0020	826.0000	13800.0000	0.0350	0.0050	143.0000	0.0010		0.0380	9800.0000	32.1500
Std. Dev.	37.1164	0.0277	0.0758	0.0054	0.0043	203.2922	8005.7618	0.0650	0.0163	50.3673	0.0004		0.0183	4307.0372	21.8296

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Upgradient Wells Well: MW 2A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	62.0	0.018	<0.02	<0.003	<0.001	620.0	1800.0	<0.07	<0.01	110.0	<0.002	N/A	0.027	4100.0	24.7
10/1999	41.4	0.019	<0.02	<0.003	<0.001	584.0	4520.0	<0.07	<0.01	112.0	<0.002	N/A	0.043	4490.0	23.9
4/2000	46.5	0.013	<0.02	<0.003	<0.001	644.0	3260.0	<0.07	<0.01	119.0	<0.002	N/A	0.041	4560.0	28.0
10/2000	40.1	0.011	<0.02	<0.006	<0.004	594.0	5150.0	<0.07	<0.01	114.0	<0.002	N/A	0.043	4990.0	N/A
4/2001	50.8	0.016	<0.02	<0.006	<0.004	576.0	3010.0	<0.07	<0.01	119.0	<0.002	N/A	0.052	3630.0	N/A
10/2001	38.5	0.011	<0.02	<0.006	<0.004	617.0	5850.0	<0.07	<0.01	117.0	<0.002	N/A	0.033	5930.0	N/A
4/2002	38.6	0.015	<0.02	<0.006	<0.004	708.0	6080.0	<0.07	<0.01	134.0	<0.002	N/A	0.043	7190.0	N/A
10/2002	<2.0	<0.01	0.025	<0.006	<0.004	680.0	11000.0	<0.07	<0.01	130.0	<0.002	N/A	0.026	7300.0	N/A
4/2003	44.0	<0.01	<0.02	<0.006	<0.004	610.0	4400.0	<0.07	<0.01	120.0	<0.002	N/A	0.047	5700.0	N/A
10/2003	40.0	0.012	<0.02	<0.006	<0.004	610.0	6000.0	<0.07	<0.01	110.0	<0.002	N/A	0.054	6000.0	N/A
4/2004	40.0	0.011	0.025	<0.006	<0.004	640.0	5800.0	<0.07	<0.01	120.0	<0.002	N/A	0.039	6300.0	N/A
10/2004	39.0	0.011	<0.02	<0.006	<0.004	630.0	5600.0	<0.07	<0.01	110.0	<0.002	N/A	0.035	6000.0	26.9
4/2005	47.0	0.012	<0.02	<0.006	<0.004	600.0	3300.0	<0.07	<0.01	120.0	<0.002	N/A	0.054	4100.0	26.5
10/2005	39.0	0.015	<0.02	<0.006	<0.004	690.0	5500.0	<0.07	<0.01	120.0	<0.002	N/A	0.059	6200.0	27.4
4/2006	36.0	0.017	0.04	<0.006	<0.004	660.0	6700.0	<0.07	<0.01	120.0	<0.002	N/A	0.057	7400.0	29.9
10/2006	35.0	0.012	0.024	<0.0075	<0.004	690.0	8400.0	<0.07	<0.01	140.0	<0.002	N/A	0.033	7900.0	0.0328
4/2007	33.0	0.014	0.056	<0.006	<0.004	570.0	8200.0	<0.07	<0.01	120.0	<0.002	N/A	0.032	6900.0	0.0355
10/2007	43.0	0.014	0.021	<0.006	<0.004	630.0	4700.0	<0.07	<0.01	110.0	<0.002	N/A	0.07	6100.0	N/A
4/2008	50.0	0.01	0.024	<0.006	<0.004	650.0	4400.0	<0.07	<0.01	110.0	<0.002	N/A	0.048	5600.0	0.0026
10/2008	28.0	<0.02	<0.2	<0.008	<0.005	628.0	4570.0	<0.01	<0.01	111.0	<0.001	N/A	0.0518	5210.0	0.0241
4/2009	57.2	<0.02	<0.02	<0.006	<0.004	564.0	2250.0	<0.07	<0.02	111.0	<0.002	N/A	0.0649	2340.0	31.89
10/2009	44.8	<0.05	<1.0	<0.02	<0.025	625.0	4520.0	<0.05	<0.025	112.0	<0.001	N/A	0.0508	3590.0	20.59
4/2010	38.0	<0.12	<0.02	<0.006	<0.004	520.0	6400.0	<0.01	<0.025	110.0	<0.002	N/A	<0.12	3400.0	25.49
10/2010	41.0	<0.1	<0.02	<0.006	<0.004	570.0	5800.0	<0.01	<0.02	100.0	<0.002	N/A	<0.094	4400.0	19.5
4/2011	38.0	<0.2	<0.02	<0.006	<0.004	620.0	7600.0	<0.01	<0.2	110.0	<0.002	N/A	<0.094	5800.0	N/A
4/2012	41.0	0.0093	0.015	<0.006	<0.004	580.0	7600.0	<0.01	0.0005	110.0	0.0	N/A	0.043	5200.0	N/A
10/2012	46.8	<0.05	<0.1	<0.03	<0.02	654.0	5270.0	<0.35	<0.05	116.0	<0.0005	N/A	<0.1	5480.0	15.8
4/2013	36.4	<0.01	<0.02	<0.006	<0.016	697.0	7810.0	<0.28	<0.04	110.0	<0.002	N/A	0.0339	5250.0	N/A
10/2013	58.8	0.0221	<0.02	<0.006	<0.004	535.0	2740.0	<0.07	<0.01	110.0	<0.0005	N/A	0.0633	2400.0	13.0
4/2014	46.9	<0.05	<0.1	<0.03	<0.02	736.0	4530.0	<0.35	<0.05	127.0	<0.002	N/A	<0.1	5310.0	N/A
10/2014	45.5	<0.05	<0.1	<0.03	<0.02	682.0	6130.0	<0.35	<0.05	122.0	<0.0005	N/A	<0.1	4320.0	N/A
4/2015	42.0	<0.05	<0.1	<0.03	<0.02	734.0	5290.0	<0.35	<0.05	127.0	<0.002	N/A	<0.1	6620.0	N/A
10/2015	47.0	<0.05	<0.1	<0.03	<0.02	665.0	4330.0	<0.35	<0.05	115.0	<0.0005	N/A	<0.1	5610.0	N/A
4/2016	54.5	<0.05	<0.1	<0.03	<0.02	604.0	2040.0	<0.35	<0.05	137.0	<0.0005	N/A	<0.1	1820.0	N/A
10/2016	46.6	<0.05	<0.1	<0.03	<0.02	674.0	3870.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	43.0	<0.05	<0.1	<0.03	<0.02	592.0	1530.0	<0.35	<0.05	123.0	<0.002	N/A	<0.1	2890.0	N/A
10/2017	41.0	<0.05	<0.1	<0.03	<0.02	723.0	5090.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	40.8	<0.05	<0.1	<0.03	<0.02	717.0	5260.0	<0.35	<0.05	130.0	<0.002	N/A	<0.1	5520.0	N/A
10/2018	49.2	<0.05	<0.1	<0.03	<0.02	658.0	3260.0	<0.35	<0.05	145.0	<0.0005	N/A	<0.1	2420.0	N/A
4/2019	N/A	0.018	0.0188	<0.004	0.0008	588.0	6910.0	0.0033	<0.01	131.0	<0.0002	N/A	0.0606	3280.0	N/A
10/2019	N/A	<0.05	<0.05	<0.02	<0.025	549.0	5890.0	<0.05	<0.05	116.0	<0.0002	N/A	0.0642	3910.0	N/A
4/2020	N/A	0.0191	0.0428	<0.004	<0.005	574.0	6890.0	<0.01	<0.01	115.0	<0.0002	N/A	0.0395	4980.0	N/A

Minimum	1.0000	0.0050	0.0100	0.0015	0.0005	520.0000	1530.0000	0.0033	0.0005	100.0000	0.0000		0.0260	1820.0000	0.0026
Maximum	62.0000	0.1000	0.5000	0.0150	0.0125	736.0000	11000.0000	0.1750	0.1000	145.0000	0.0010		0.0700	7900.0000	31.8900
Mean	42.3575	0.0206	0.0385	0.0063	0.0046	630.0465	5206.0465	0.0679	0.0136	118.6341	0.0008		0.0482	4975.6098	18.4509
Median	41.7000	0.0170	0.0210	0.0030	0.0020	625.0000	5260.0000	0.0350	0.0050	117.0000	0.0010		0.0500	5210.0000	23.9000
Std. Dev.	9.5912	0.0162	0.0750	0.0054	0.0040	54.6530	1931.7906	0.0667	0.0162	9.5988	0.0004		0.0102	1500.8398	11.5599

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Upgradient Wells Well: MW 2B
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	38.0	0.014	<0.02	<0.003	<0.001	910.0	8100.0	<0.07	<0.01	170.0	<0.002	N/A	<0.02	6900.0	30.5
10/1999	38.6	0.019	0.022	<0.003	<0.001	949.0	5910.0	<0.07	<0.01	203.0	<0.002	N/A	<0.02	9610.0	31.8
4/2000	32.3	0.024	<0.02	<0.003	0.0031	853.0	15400.0	<0.07	<0.01	184.0	<0.002	N/A	0.031	6700.0	30.4
10/2000	33.0	0.017	<0.02	<0.006	<0.004	1040.0	17500.0	<0.07	<0.01	231.0	<0.002	N/A	0.022	9990.0	N/A
4/2001	34.8	0.012	<0.02	<0.006	<0.004	1070.0	14800.0	<0.07	<0.01	234.0	<0.002	N/A	0.022	11400.0	N/A
10/2001	35.3	0.021	0.022	<0.006	<0.004	1100.0	14400.0	<0.07	<0.01	243.0	<0.002	N/A	<0.02	11600.0	N/A
4/2002	31.7	0.02	0.027	<0.006	<0.004	1290.0	21900.0	<0.07	<0.01	306.0	<0.002	N/A	0.028	16300.0	N/A
10/2002	6.2	0.012	0.022	0.006	<0.004	1400.0	28000.0	<0.07	<0.01	300.0	<0.002	N/A	<0.02	18000.0	N/A
4/2003	46.0	0.023	<0.02	<0.006	<0.004	800.0	9000.0	<0.07	<0.01	180.0	<0.002	N/A	0.039	7000.0	N/A
10/2003	36.0	0.016	0.021	<0.006	<0.004	1100.0	19000.0	<0.07	<0.01	240.0	<0.002	N/A	0.03	11000.0	N/A
4/2004	40.0	0.027	<0.02	<0.006	<0.01	810.0	8600.0	<0.07	<0.01	190.0	<0.002	N/A	0.039	7700.0	N/A
10/2004	35.0	0.022	0.04	<0.006	<0.004	1200.0	23000.0	<0.07	<0.01	270.0	<0.002	N/A	0.023	12000.0	44.7
4/2005	48.0	0.025	<0.02	<0.006	<0.004	850.0	10000.0	<0.07	<0.01	180.0	<0.002	N/A	0.026	7000.0	34.7
10/2005	38.0	0.021	0.023	<0.006	<0.004	1400.0	22000.0	<0.07	<0.01	260.0	<0.002	N/A	0.029	12000.0	49.9
4/2006	35.0	0.025	0.025	0.006	<0.004	1300.0	20000.0	<0.07	<0.01	280.0	<0.002	N/A	0.027	13000.0	0.0519
10/2006	35.0	0.022	0.027	<0.015	<0.0045	1300.0	23000.0	<0.07	<0.01	340.0	<0.002	N/A	<0.02	16000.0	0.058
4/2007	36.0	0.021	<0.021	<0.03	<0.0090	1100.0	19000.0	<0.07	<0.01	280.0	<0.002	N/A	0.024	12000.0	59.9
10/2007	45.0	0.028	0.024	<0.006	<0.004	1100.0	16000.0	<0.07	<0.01	230.0	<0.002	N/A	0.025	13000.0	N/A
4/2008	49.0	0.024	<0.02	<0.006	<0.004	800.0	16000.0	<0.07	<0.01	180.0	<0.002	N/A	0.028	6500.0	0.0035
10/2008	32.9	0.0281	<0.2	<0.008	<0.005	865.0	12300.0	<0.01	<0.01	212.0	<0.001	N/A	0.0436	7330.0	0.0369
4/2009	64.5	0.0271	<0.02	<0.006	<0.004	796.0	7640.0	<0.07	<0.02	171.0	<0.002	N/A	<0.04	5240.0	29.63
10/2009	55.5	<0.05	<1.0	<0.02	<0.025	944.0	10800.0	<0.05	<0.025	219.0	<0.001	N/A	<0.05	6520.0	37.09
4/2010	61.0	<0.12	<0.02	<0.006	<0.004	650.0	6000.0	<0.01	<0.025	160.0	<0.002	N/A	<0.12	4100.0	25.41
10/2010	55.0	<0.1	0.02	<0.006	<0.004	850.0	12000.0	<0.01	<0.02	200.0	<0.002	N/A	<0.094	5100.0	33.98
4/2011	42.0	<0.2	0.02	<0.006	<0.004	1200.0	22000.0	<0.01	<0.2	280.0	<0.002	N/A	<0.094	13000.0	N/A
10/2011	40.0	0.018	<0.04	<0.012	<0.008	1400.0	25000.0	<0.02	<0.001	310.0	<0.002	N/A	0.012	15000.0	N/A
4/2012	69.0	0.024	0.017	<0.006	<0.004	690.0	7800.0	<0.01	<0.001	160.0	0.0	N/A	0.019	5600.0	N/A
10/2012	36.3	<0.05	<0.1	<0.03	<0.02	1110.0	29300.0	<0.35	<0.05	264.0	<0.0005	N/A	<0.1	11100.0	55.8
4/2013	60.8	0.025	<0.02	<0.006	<0.016	748.0	8530.0	<0.28	<0.04	147.0	<0.002	N/A	0.0129	5370.0	N/A
10/2013	60.0	0.0255	0.023	<0.006	<0.004	836.0	13800.0	<0.07	<0.01	175.0	<0.0005	N/A	<0.02	8480.0	41.0
4/2014	51.8	<0.05	<0.1	<0.03	<0.02	1290.0	18300.0	<0.35	<0.05	283.0	<0.002	N/A	<0.1	10600.0	N/A
10/2014	59.8	<0.05	<0.1	<0.03	<0.02	1070.0	13700.0	<0.35	<0.05	239.0	<0.0005	N/A	<0.1	8860.0	N/A
4/2015	51.8	<0.05	<0.1	<0.03	<0.02	1160.0	14900.0	<0.35	<0.05	267.0	<0.002	N/A	<0.1	10300.0	N/A
10/2015	80.1	<0.05	<0.1	<0.03	<0.02	902.0	9770.0	<0.35	<0.05	199.0	<0.0005	N/A	<0.1	6940.0	N/A
4/2016	110.0	<0.05	<0.1	<0.03	<0.02	680.0	2450.0	<0.35	<0.05	138.0	<0.0005	N/A	<0.1	1430.0	N/A
10/2016	78.0	<0.05	<0.1	<0.03	<0.02	795.0	4900.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	82.5	<0.05	<0.1	<0.03	<0.02	696.0	4310.0	<0.35	<0.05	152.0	<0.002	N/A	<0.1	3370.0	N/A
10/2017	71.0	<0.05	<0.1	<0.03	<0.02	837.0	5610.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	52.1	<0.05	<0.1	<0.03	<0.02	1350.0	17000.0	<0.35	<0.05	300.0	<0.002	N/A	<0.1	13800.0	N/A
10/2018	99.1	<0.05	<0.1	<0.03	<0.02	597.0	2070.0	<0.35	<0.05	135.0	<0.0005	N/A	<0.1	1550.0	N/A
4/2019	N/A	0.0211	0.0166	0.0003	0.0007	507.0	1720.0	<0.01	0.004	134.0	<0.0002	N/A	0.0249	482.0	N/A
10/2019	N/A	<0.05	<0.05	<0.02	<0.025	629.0	2860.0	<0.05	<0.05	148.0	<0.0002	N/A	0.065	1410.0	N/A
4/2020	N/A	0.0251	0.0526	<0.004	<0.005	535.0	1590.0	0.0117	<0.01	136.0	<0.0002	N/A	0.0432	1040.0	7.61

Minimum	6.2000	0.0120	0.0100	0.0003	0.0005	507.0000	1590.0000	0.0050	0.0005	134.0000	0.0000		0.0100	482.0000	0.0035
Maximum	110.0000	0.1000	0.5000	0.0150	0.0125	1400.0000	29300.0000	0.1750	0.1000	340.0000	0.0010		0.0650	18000.0000	59.9000
Mean	50.1525	0.0261	0.0399	0.0068	0.0048	965.3256	13161.8605	0.0675	0.0135	217.8049	0.0008		0.0331	8642.0000	28.4761
Median	45.5000	0.0250	0.0230	0.0030	0.0020	910.0000	13700.0000	0.0350	0.0050	212.0000	0.0010		0.0290	8480.0000	31.1500
Std. Dev.	20.1571	0.0140	0.0744	0.0055	0.0039	251.9366	7465.3432	0.0669	0.0163	57.6789	0.0004		0.0160	4454.8995	19.4880

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Upgradient Wells Well: MW 3A
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	24.0	0.02	<0.02	<0.003	<0.004	1200.0	15000.0	<0.07	<0.01	160.0	<0.002	N/A	0.094	14000.0	49.6
10/1999	25.2	0.032	0.024	<0.003	<0.001	1140.0	9590.0	<0.07	<0.01	177.0	<0.002	N/A	0.11	14300.0	54.8
4/2000	22.5	0.034	0.024	<0.003	<0.001	1210.0	18900.0	<0.07	<0.01	185.0	<0.002	N/A	0.14	14300.0	56.5
10/2000	22.1	0.024	0.024	<0.006	<0.004	1060.0	21000.0	<0.07	<0.01	173.0	<0.002	N/A	0.1	14200.0	N/A
4/2001	23.4	0.023	0.032	<0.006	<0.004	1120.0	19700.0	<0.07	<0.01	187.0	<0.002	N/A	0.039	16000.0	N/A
10/2001	23.6	0.023	0.029	<0.006	<0.004	1120.0	21500.0	<0.07	<0.01	195.0	<0.002	N/A	0.11	11900.0	N/A
4/2002	24.4	0.024	0.027	<0.006	<0.004	1220.0	22600.0	<0.07	<0.01	232.0	<0.002	N/A	0.12	17000.0	N/A
4/2003	21.0	0.015	<0.02	<0.006	<0.004	910.0	18000.0	<0.07	<0.01	140.0	<0.002	N/A	0.13	12000.0	N/A
10/2003	N/A	0.026	0.021	<0.003	<0.002	990.0	N/A	<0.0042	<0.0019	180.0	<0.002	N/A	0.092	15000.0	N/A
4/2004	22.0	0.024	0.025	<0.006	<0.004	830.0	14000.0	<0.07	<0.01	110.0	<0.002	N/A	0.12	12000.0	N/A
10/2004	24.0	0.025	0.023	<0.006	<0.004	880.0	16000.0	<0.07	<0.01	130.0	<0.002	N/A	0.11	12000.0	49.5
4/2006	16.0	<0.01	0.13	<0.006	<0.004	1400.0	22000.0	<0.07	<0.01	130.0	<0.002	N/A	0.061	16000.0	0.0343
10/2006	20.0	<0.01	0.072	<0.015	<0.0045	1100.0	26000.0	<0.07	<0.01	180.0	<0.002	N/A	0.047	17000.0	0.0697
4/2008	14.0	<0.01	0.06	<0.006	<0.004	1300.0	30000.0	<0.07	<0.01	130.0	<0.002	N/A	0.086	17000.0	0.0072
4/2009	29.0	<0.04	<0.08	<0.024	<0.016	1390.0	18100.0	<0.28	<0.04	184.0	<0.002	N/A	<0.08	16600.0	71.83
10/2009	30.4	<0.04	<0.2	<0.004	<0.005	1410.0	29400.0	<0.01	<0.02	139.0	<0.001	N/A	0.0928	16600.0	70.88
4/2010	17.0	<0.1	<0.05	<0.03	<0.02	1300.0	28000.0	<0.05	<0.02	170.0	<0.002	N/A	<0.094	20000.0	72.14
4/2011	16.0	<0.2	0.044	<0.012	<0.008	1400.0	30000.0	<0.02	<0.2	180.0	<0.002	N/A	<0.094	19000.0	N/A
4/2013	58.8	<0.01	0.0693	<0.006	<0.02	1200.0	19300.0	<0.35	<0.05	68.7	<0.002	N/A	0.0671	13500.0	N/A
4/2016	34.6	<0.05	<0.1	<0.03	<0.02	1340.0	20400.0	<0.35	<0.05	19.9	<0.0005	N/A	0.109	14700.0	N/A
10/2017	20.0	<0.05	<0.1	<0.03	<0.02	1310.0	25300.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	20.1	<0.05	<0.1	<0.03	<0.02	1430.0	25200.0	<0.35	<0.05	117.0	<0.002	N/A	<0.1	17700.0	N/A
4/2019	N/A	0.0301	0.0436	0.0038	<0.025	1080.0	28200.0	0.0103	<0.05	15.3	<0.0002	N/A	0.132	11500.0	N/A
10/2019	N/A	<0.05	<0.05	<0.02	<0.025	1120.0	26600.0	<0.05	<0.05	51.2	<0.0002	N/A	0.151	15200.0	N/A
4/2020	N/A	<0.1	<0.1	<0.04	<0.05	1130.0	23300.0	<0.1	<0.1	45.5	<0.0002	N/A	0.126	12700.0	55.8

Minimum	1.0000	0.0050	0.0100	0.0015	0.0005	830.0000	9590.0000	0.0021	0.0003	15.3000	0.0001		0.0390	11000.0000	0.0072
Maximum	58.8000	0.1000	0.1300	0.0200	0.0250	1430.0000	30000.0000	0.1750	0.1000	232.0000	0.0010		0.1900	20000.0000	72.1400
Mean	23.1409	0.0268	0.0413	0.0061	0.0054	1171.9231	21763.6000	0.0551	0.0156	136.7840	0.0008		0.0947	14848.0000	43.7419
Median	22.3000	0.0245	0.0305	0.0030	0.0020	1170.0000	21500.0000	0.0350	0.0050	140.0000	0.0010		0.0970	14700.0000	54.8000
Std. Dev.	10.3448	0.0188	0.0277	0.0056	0.0057	177.3588	5448.0921	0.0577	0.0208	57.7213	0.0003		0.0395	2432.2692	29.2577

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Drum Cell / WMA #4 Well: MW 4A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	450.0	<0.01	<0.07	<0.003	<0.001	700.0	3200.0	<0.07	0.011	260.0	<0.002	<1.0	<0.02	1800.0	9.2
10/1999	416.0	<0.01	0.051	<0.003	<0.001	606.0	3020.0	<0.07	<0.01	237.0	<0.002	<1.0	<0.02	2810.0	9.01
4/2000	667.0	0.025	0.1	0.003	<0.001	707.0	2250.0	<0.07	<0.01	267.0	<0.002	<1.0	<0.02	3830.0	10.37
10/2000	341.0	0.013	0.037	<0.006	<0.004	591.0	6490.0	<0.07	<0.01	211.0	<0.002	<1.0	<0.02	3910.0	12.64
4/2001	664.0	0.01	0.06	<0.006	<0.004	704.0	2010.0	<0.07	<0.01	269.0	<0.002	<1.0	<0.02	3840.0	11.4
10/2001	460.0	<0.01	0.02	<0.006	<0.004	650.0	5090.0	<0.07	<0.01	281.0	<0.002	<1.0	<0.02	2010.0	10.61
4/2002	480.0	<0.01	<0.02	<0.006	<0.004	748.0	3750.0	<0.07	<0.01	308.0	<0.002	<1.0	<0.02	4020.0	24.4
10/2002	330.0	<0.01	0.02	<0.03	<0.004	670.0	5700.0	<0.07	<0.01	250.0	<0.002	<1.0	<0.02	3100.0	16.2
4/2003	680.0	<0.01	<0.02	<0.006	<0.004	700.0	1900.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	3000.0	N/A
10/2003	560.0	<0.01	<0.02	<0.006	<0.004	650.0	2300.0	<0.07	<0.01	300.0	<0.002	N/A	<0.02	1700.0	N/A
4/2004	660.0	<0.01	0.024	<0.006	<0.004	640.0	2300.0	<0.07	<0.01	300.0	<0.002	N/A	<0.02	2600.0	N/A
10/2004	620.0	<0.01	0.022	<0.006	<0.004	690.0	2600.0	<0.07	<0.01	290.0	<0.002	N/A	<0.02	1900.0	1.391
4/2005	730.0	0.014	0.036	<0.006	<0.004	650.0	2000.0	<0.07	<0.01	320.0	<0.002	N/A	<0.02	1900.0	12.3
10/2005	560.0	<0.01	0.02	<0.006	<0.004	700.0	2500.0	<0.07	<0.01	320.0	<0.002	N/A	<0.02	3000.0	11.8
4/2006	560.0	0.011	0.03	<0.006	<0.004	720.0	2900.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	4400.0	11.14
10/2006	440.0	<0.01	0.02	<0.0075	<0.004	700.0	5400.0	<0.07	<0.01	310.0	<0.002	N/A	<0.02	3800.0	0.0136
4/2007	480.0	0.01	0.042	<0.006	<0.004	630.0	2100.0	<0.07	<0.01	300.0	<0.002	N/A	<0.02	2700.0	15.4
10/2007	350.0	<0.01	0.02	<0.006	<0.004	640.0	5400.0	<0.07	<0.01	260.0	<0.002	N/A	<0.02	3200.0	N/A
4/2008	530.0	<0.01	0.045	<0.006	<0.004	580.0	2300.0	<0.07	<0.01	270.0	<0.002	N/A	<0.0070	2000.0	0.0012
10/2008	361.0	<0.5	<10.0	<0.2	<0.25	736.0	1720.0	<0.5	<0.25	277.0	<0.001	N/A	<0.5	2540.0	0.0092
4/2009	757.0	<0.02	0.0411	<0.006	<0.004	682.0	1250.0	<0.07	<0.02	288.0	<0.002	N/A	<0.04	2320.0	10.34
10/2009	538.0	<0.02	<0.2	<0.016	<0.005	598.0	3040.0	<0.01	<0.01	276.0	<0.001	N/A	<0.02	2020.0	11.04
4/2010	740.0	<0.1	0.04	<0.006	<0.004	600.0	2100.0	<0.01	<0.02	320.0	<0.002	N/A	<0.094	1900.0	11.92
10/2010	590.0	<0.05	<0.02	<0.006	<0.004	600.0	2900.0	<0.01	<0.01	230.0	<0.002	N/A	<0.047	4500.0	7.04
4/2011	480.0	<0.047	0.04	<0.006	<0.004	610.0	3200.0	<0.01	<0.01	270.0	<0.002	N/A	<0.05	2400.0	N/A
4/2012	640.0	0.013	0.038	<0.012	0.0017	630.0	2300.0	0.0035	0.0031	350.0	0.0001	N/A	0.0028	1800.0	N/A
10/2012	570.0	<0.05	<0.1	<0.03	<0.02	726.0	3430.0	<0.35	<0.05	319.0	<0.0005	N/A	<0.1	2390.0	11.9
4/2013	588.0	0.0421	0.103	<0.006	<0.008	624.0	1760.0	<0.14	<0.02	282.0	<0.002	N/A	<0.01	1400.0	N/A
10/2013	576.0	<0.05	<0.1	<0.03	<0.02	606.0	1630.0	<0.35	<0.05	289.0	<0.0005	N/A	<0.1	1300.0	9.48
4/2014	665.0	<0.05	<0.1	<0.03	<0.02	651.0	2260.0	<0.35	<0.05	319.0	<0.002	N/A	<0.1	1890.0	N/A
10/2014	548.0	<0.05	<0.1	<0.03	<0.02	696.0	2450.0	<0.35	<0.05	315.0	<0.0005	N/A	<0.1	1980.0	N/A
4/2015	462.0	<0.05	<0.1	<0.03	<0.02	713.0	3010.0	<0.35	<0.05	309.0	<0.002	N/A	<0.1	2520.0	N/A
10/2015	470.0	<0.05	<0.1	<0.03	<0.02	679.0	2370.0	<0.35	<0.05	305.0	<0.0005	N/A	<0.1	1910.0	N/A
4/2016	623.0	<0.05	<0.1	<0.03	<0.02	653.0	1690.0	<0.35	<0.05	338.0	<0.0005	N/A	<0.1	1780.0	N/A
10/2016	485.0	<0.05	<0.1	<0.03	<0.02	613.0	3670.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	650.0	<0.05	<0.1	<0.03	<0.02	661.0	1790.0	<0.35	<0.05	332.0	<0.002	N/A	<0.1	1650.0	N/A
10/2017	533.0	<0.05	0.105	<0.03	<0.02	2890.0	2330.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	624.0	<0.05	<0.1	<0.03	<0.02	683.0	4710.0	<0.35	<0.05	306.0	<0.002	N/A	<0.1	3520.0	N/A
10/2018	320.0	<0.05	<0.1	<0.03	<0.02	974.0	13100.0	<0.35	<0.05	285.0	<0.0005	N/A	<0.1	11200.0	N/A
4/2019	N/A	<0.05	0.102	<0.02	<0.025	964.0	18300.0	<0.05	<0.05	285.0	<0.0002	N/A	<0.05	9070.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1080.0	17800.0	<0.2	<0.2	312.0	<0.0002	N/A	<0.2	10400.0	N/A
4/2020	N/A	0.025	0.0565	<0.004	<0.005	694.0	18100.0	<0.01	<0.01	235.0	<0.0002	N/A	<0.01	9090.0	34.0

Minimum	320.0000	0.0050	0.0100	0.0015	0.0005	580.0000	1250.0000	0.0035	0.0031	211.0000	0.0001	0.5000	0.0028	1300.0000	0.0013
Maximum	757.0000	0.2500	5.0000	0.1000	0.1250	2890.0000	18300.0000	0.2500	0.1250	350.0000	0.0010	0.5000	0.2500	11200.0000	34.0000
Mean	547.0930	0.0292	0.2482	0.0117	0.0105	735.9574	4083.2609	0.0807	0.0196	289.5111	0.0007	0.5000	0.0367	3313.5556	10.9150
Median	560.0000	0.0243	0.0500	0.0030	0.0020	682.0000	2475.0000	0.0350	0.0050	288.0000	0.0010	0.5000	0.0100	2600.0000	10.9000
Std. Dev.	116.5375	0.0494	0.9907	0.0198	0.0250	335.0908	4193.2613	0.0760	0.0276	30.7738	0.0004	0.0000	0.0509	2292.3798	7.1967

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Drum Cell / WMA #4 Well: MW 4A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	490.0	<0.01	<0.07	<0.003	<0.001	710.0	790.0	<0.07	<0.01	310.0	<0.002	<1.0	<0.02	540.0	5.8
10/1999	452.0	0.01	<0.02	<0.003	<0.001	653.0	1100.0	<0.07	<0.01	301.0	<0.002	<1.0	<0.02	601.0	6.7
4/2000	457.0	<0.01	<0.02	<0.003	<0.001	672.0	730.0	<0.07	<0.01	300.0	<0.002	<1.0	<0.02	636.0	5.65
10/2000	434.0	<0.01	<0.02	<0.006	<0.004	624.0	1170.0	<0.07	<0.01	299.0	<0.002	<1.0	<0.02	619.0	66.7
4/2001	510.0	<0.01	<0.02	<0.006	<0.004	641.0	752.0	<0.07	<0.01	290.0	<0.002	<1.0	<0.02	549.0	67.9
10/2001	491.0	<0.01	<0.02	<0.006	<0.004	677.0	1020.0	<0.07	<0.01	316.0	<0.002	<1.0	<0.02	603.0	6.05
4/2002	544.0	<0.01	<0.02	<0.006	<0.004	728.0	1210.0	<0.07	<0.01	353.0	<0.002	<1.0	<0.02	669.0	7.97
10/2002	520.0	<0.01	<0.02	<0.03	<0.004	620.0	830.0	<0.07	<0.01	290.0	<0.002	<1.0	<0.02	490.0	7.51
4/2003	530.0	<0.01	<0.02	<0.006	<0.004	650.0	750.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	450.0	N/A
10/2003	550.0	<0.01	<0.02	<0.006	<0.004	660.0	940.0	<0.07	<0.01	300.0	<0.002	N/A	<0.02	530.0	N/A
4/2004	500.0	<0.01	<0.02	<0.006	<0.004	600.0	630.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	470.0	N/A
10/2004	520.0	<0.01	<0.02	<0.006	<0.004	680.0	590.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	370.0	0.677
4/2005	510.0	<0.01	<0.02	<0.006	<0.004	640.0	750.0	<0.07	<0.01	290.0	<0.002	N/A	<0.02	450.0	7.4
10/2005	500.0	<0.01	<0.02	<0.006	<0.004	650.0	870.0	<0.07	<0.01	310.0	<0.002	N/A	<0.02	500.0	6.77
4/2006	490.0	<0.01	<0.02	<0.006	<0.004	700.0	940.0	<0.07	<0.01	320.0	<0.002	N/A	<0.02	600.0	5.34
10/2006	500.0	<0.01	<0.02	<0.006	<0.004	610.0	930.0	<0.07	<0.01	320.0	<0.002	N/A	<0.02	630.0	0.0636
4/2007	480.0	<0.01	<0.02	<0.006	<0.004	620.0	490.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	400.0	5.87
10/2007	470.0	<0.01	<0.02	<0.006	<0.004	620.0	490.0	<0.07	<0.01	240.0	<0.002	N/A	<0.02	430.0	N/A
4/2008	490.0	<0.01	<0.02	<0.006	<0.004	570.0	540.0	<0.07	<0.01	240.0	<0.002	N/A	<0.0070	390.0	0.0005
10/2008	443.0	<0.5	<10.0	<0.2	<0.25	635.0	495.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	<500.0	0.0063
4/2009	561.0	<0.02	<0.02	<0.006	<0.004	612.0	466.0	<0.07	<0.02	243.0	<0.002	N/A	<0.04	338.0	5.553
10/2009	500.0	<0.02	<0.2	<0.016	<0.005	602.0	518.0	<0.01	<0.01	252.0	<0.001	N/A	<0.02	367.0	5.873
4/2010	530.0	<0.05	<0.02	<0.006	<0.004	580.0	590.0	0.064	<0.01	260.0	<0.002	N/A	<0.047	500.0	6.8
10/2010	530.0	<0.01	<0.02	<0.006	<0.004	590.0	660.0	<0.01	<0.002	250.0	<0.002	N/A	<0.0094	570.0	4.29
4/2011	530.0	<0.0094	<0.02	<0.006	<0.004	620.0	700.0	<0.01	<0.002	270.0	<0.002	N/A	<0.01	550.0	N/A
10/2011	510.0	<0.0047	<0.02	<0.006	<0.004	580.0	710.0	<0.01	<0.001	280.0	<0.002	N/A	<0.005	580.0	N/A
4/2012	470.0	0.0014	0.013	<0.012	0.0015	590.0	410.0	<0.02	<0.002	270.0	0.0001	N/A	<0.01	440.0	N/A
10/2012	500.0	<0.05	<0.1	<0.03	<0.02	639.0	555.0	<0.35	<0.05	252.0	<0.0005	N/A	<0.1	337.0	4.2
4/2013	477.0	<0.01	<0.02	<0.006	<0.004	566.0	312.0	<0.07	0.016	218.0	<0.002	N/A	<0.01	244.0	N/A
10/2013	453.0	<0.05	<0.1	<0.03	<0.02	561.0	313.0	<0.35	<0.05	208.0	<0.0005	N/A	<0.1	273.0	4.6
4/2014	500.0	<0.05	<0.1	<0.03	<0.02	633.0	519.0	<0.35	<0.05	238.0	<0.002	N/A	<0.1	376.0	N/A
10/2014	932.0	<0.05	<0.1	<0.03	<0.02	636.0	601.0	<0.35	<0.05	237.0	<0.0005	N/A	<0.1	577.0	N/A
4/2015	480.0	<0.05	<0.1	<0.03	<0.02	697.0	641.0	<0.35	<0.05	264.0	<0.002	N/A	<0.1	514.0	N/A
10/2015	451.0	<0.05	<0.1	<0.03	<0.02	642.0	537.0	<0.35	<0.05	217.0	<0.0005	N/A	<0.1	517.0	N/A
4/2016	439.0	<0.05	<0.1	<0.03	<0.02	643.0	352.0	<0.35	<0.05	229.0	<0.0005	N/A	<0.1	313.0	N/A
10/2016	423.0	<0.05	<0.1	<0.03	<0.02	595.0	411.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	436.0	<0.05	<0.1	<0.03	<0.02	619.0	324.0	<0.35	<0.05	219.0	<0.002	N/A	<0.1	330.0	N/A
10/2017	432.0	<0.05	<0.1	<0.03	<0.02	2860.0	429.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	431.0	<0.05	<0.1	<0.03	<0.02	649.0	<1000.0	<0.35	<0.05	250.0	<0.002	N/A	<0.1	542.0	N/A
10/2018	378.0	<0.05	<0.1	<0.03	<0.02	683.0	767.0	<0.35	<0.05	237.0	<0.0005	N/A	<0.1	866.0	N/A
4/2019	N/A	0.0135	0.0145	<0.004	<0.005	514.0	1440.0	<0.01	<0.01	235.0	<0.0002	N/A	<0.01	1020.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	691.0	1490.0	<0.2	<0.2	246.0	<0.0002	N/A	<0.2	1090.0	N/A
4/2020	N/A	0.047	0.0136	<0.004	<0.005	533.0	797.0	<0.01	<0.01	210.0	<0.0002	N/A	<0.01	438.0	5.54

Minimum	378.0000	0.0014	0.0100	0.0015	0.0005	514.0000	312.0000	0.0050	0.0005	125.0000	0.0001	0.5000	0.0025	244.0000	0.0005
Maximum	932.0000	0.2500	5.0000	0.1000	0.1250	2860.0000	1490.0000	0.2500	0.1250	353.0000	0.0010	0.5000	0.2500	1090.0000	67.9000
Mean	496.5238	0.0212	0.1311	0.0092	0.0076	679.8889	696.4222	0.0723	0.0151	265.0930	0.0008	0.5000	0.0275	507.1860	10.1214
Median	495.5000	0.0050	0.0100	0.0030	0.0020	636.0000	641.0000	0.0350	0.0050	270.0000	0.0010	0.5000	0.0100	500.0000	5.7250
Std. Dev.	79.1674	0.0394	0.7260	0.0154	0.0191	335.4536	277.7516	0.0704	0.0229	40.8690	0.0004	0.0000	0.0397	174.9285	17.7704

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Drum Cell / WMA #4 Well: MW 4A3 (New)
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/2000	<0.01	<0.02	<0.006	<0.004	961.0	10800.0	<0.07	<0.01	184.0	<0.002	<1.0	<0.057	14000.0	3920.0	41.8
4/2001	<0.01	0.036	<0.006	<0.004	786.0	4950.0	<0.07	<0.01	169.0	<0.002	<1.0	<0.02	10500.0	2880.0	78.5
10/2001	<0.01	<0.02	<0.006	<0.004	648.0	5390.0	<0.07	<0.01	182.0	<0.002	<1.0	0.031	5850.0	3080.0	38.3
4/2002	0.01	0.025	<0.006	<0.004	874.0	5520.0	<0.07	<0.01	202.0	<0.002	<1.0	0.031	12800.0	3050.0	49.6
10/2002	<0.01	0.023	<0.03	<0.004	910.0	5700.0	<0.07	<0.01	180.0	<0.002	<1.0	0.026	14000.0	3200.0	39.9
4/2003	<0.01	<0.02	<0.006	<0.004	690.0	2900.0	<0.07	<0.01	160.0	<0.002	N/A	0.021	5700.0	2700.0	N/A
10/2003	0.01	<0.02	<0.006	<0.004	680.0	8600.0	<0.07	<0.01	120.0	<0.002	N/A	0.022	6500.0	3900.0	N/A
4/2004	0.016	0.035	<0.006	<0.004	880.0	4100.0	<0.07	<0.01	180.0	<0.002	N/A	0.032	12000.0	2900.0	N/A
10/2004	<0.01	0.03	<0.006	<0.004	770.0	13000.0	<0.07	<0.01	130.0	<0.002	N/A	<0.02	7100.0	4600.0	36.1
4/2005	<0.01	0.023	<0.006	<0.004	780.0	16000.0	<0.07	<0.01	150.0	<0.002	N/A	0.039	8700.0	4800.0	34.9
10/2005	<0.01	<0.02	<0.006	<0.004	760.0	12000.0	<0.07	<0.01	130.0	<0.002	N/A	0.038	8100.0	4800.0	30.5
4/2006	<0.01	0.02	<0.006	<0.004	810.0	13000.0	<0.07	<0.01	150.0	<0.002	N/A	0.033	9700.0	4500.0	24.7
10/2006	<0.01	<0.02	<0.015	<0.0045	780.0	16000.0	<0.07	<0.01	160.0	<0.002	N/A	0.041	10000.0	5400.0	0.0372
4/2007	0.01	<0.02	<0.006	<0.004	690.0	19000.0	<0.07	<0.01	130.0	<0.002	N/A	0.037	8500.0	5000.0	32.3
10/2007	0.011	<0.02	<0.006	<0.004	830.0	15000.0	<0.07	<0.01	150.0	<0.002	N/A	0.032	11000.0	5000.0	N/A
4/2008	0.011	0.025	<0.006	<0.004	690.0	18000.0	<0.07	<0.01	130.0	<0.002	N/A	0.018	8700.0	4900.0	0.0033
10/2008	<0.5	<10.0	<0.2	<0.25	832.0	9410.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	8270.0	4120.0	0.0187
4/2009	<0.02	<0.02	<0.006	<0.004	706.0	5010.0	<0.07	<0.02	129.0	<0.002	N/A	<0.04	6530.0	2280.0	20.914
10/2009	<0.02	<0.4	<0.008	<0.01	805.0	13400.0	<0.02	<0.01	155.0	<0.001	N/A	<0.02	9430.0	3000.0	14.73
4/2010	<0.1	0.027	<0.006	<0.004	630.0	7600.0	<0.01	<0.02	130.0	<0.002	N/A	<0.094	6300.0	3800.0	26.43
10/2010	<0.1	<0.02	<0.006	<0.004	670.0	9900.0	<0.01	<0.02	110.0	<0.002	N/A	<0.094	7600.0	4400.0	9.08
4/2011	0.019	0.041	<0.006	<0.004	650.0	13000.0	0.012	0.0013	140.0	<0.002	N/A	0.029	9100.0	4400.0	N/A
10/2011	0.015	<0.02	<0.006	<0.004	910.0	14000.0	<0.01	<0.001	150.0	<0.002	N/A	0.015	12000.0	5700.0	N/A
4/2012	0.0039	0.016	<0.012	0.0013	790.0	11000.0	0.0021	0.001	140.0	0.0001	N/A	0.017	8900.0	4700.0	N/A
10/2012	<0.05	<0.1	<0.03	<0.02	777.0	10400.0	<0.35	<0.05	134.0	<0.0005	N/A	<0.1	7170.0	4320.0	26.0
4/2013	<0.01	<0.02	<0.006	<0.008	761.0	7810.0	<0.14	<0.02	118.0	<0.002	N/A	0.0195	5810.0	4260.0	N/A
10/2013	<0.05	<0.1	<0.03	<0.02	698.0	8930.0	<0.35	<0.05	131.0	<0.0005	N/A	<0.1	5060.0	4270.0	30.0
4/2014	<0.05	<0.1	<0.03	<0.02	751.0	9120.0	<0.35	<0.05	126.0	<0.002	N/A	<0.1	6900.0	4520.0	N/A
10/2014	<0.05	<0.1	<0.03	<0.02	852.0	10500.0	<0.35	<0.05	149.0	<0.0005	N/A	<0.1	7640.0	4780.0	N/A
4/2015	<0.05	<0.1	<0.03	<0.02	829.0	14200.0	<0.35	<0.05	175.0	<0.002	N/A	<0.1	6770.0	4010.0	N/A
10/2015	<0.05	<0.1	<0.03	<0.02	678.0	7860.0	<0.35	<0.05	119.0	<0.0005	N/A	<0.1	4950.0	3820.0	N/A
4/2016	<0.05	<0.1	<0.03	<0.02	927.0	12300.0	<0.35	<0.05	167.0	<0.0005	N/A	<0.1	10500.0	4710.0	N/A
10/2016	<0.05	<0.1	<0.03	<0.02	764.0	5900.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	3460.0	N/A
4/2017	<0.05	<0.1	<0.03	<0.02	809.0	10600.0	<0.35	<0.05	144.0	<0.002	N/A	<0.1	8260.0	4210.0	N/A
10/2017	<0.05	<0.1	<0.03	<0.02	2960.0	4790.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	3400.0	N/A
4/2018	<0.05	<0.1	<0.03	<0.02	910.0	4260.0	<0.35	<0.05	171.0	<0.002	N/A	<0.1	12600.0	2970.0	N/A
10/2018	<0.05	<0.1	<0.03	<0.02	1080.0	14500.0	<0.35	<0.05	193.0	<0.0005	N/A	<0.1	16800.0	4020.0	N/A
4/2019	<0.1	<0.1	<0.04	<0.05	1120.0	28000.0	<0.1	<0.1	219.0	<0.0002	N/A	<0.1	16500.0	7230.0	N/A
10/2019	<0.2	<0.2	<0.08	<0.1	1210.0	29400.0	<0.2	<0.2	222.0	<0.0002	N/A	<0.2	13800.0	6790.0	N/A
4/2020	<0.05	<0.05	<0.02	<0.025	1120.0	30900.0	<0.05	<0.05	217.0	<0.0002	N/A	<0.05	16500.0	5550.0	N/A

Minimum	0.0039	0.0100	0.0020	0.0013	630.0000	2900.0000	0.0021	0.0005	110.0000	0.0001	0.5000	0.0100	4330.0000	2280.0000	0.0033
Maximum	0.2500	5.0000	0.1000	0.1250	2960.0000	30900.0000	0.2500	0.1250	222.0000	0.0010	0.5000	0.2500	16800.0000	7230.0000	78.5000
Mean	0.0240	0.1423	0.0105	0.0088	860.1163	11432.3256	0.0772	0.0178	154.5610	0.0007	0.5000	0.0406	9333.4146	4216.5116	28.0954
Median	0.0155	0.0260	0.0030	0.0020	786.0000	10500.0000	0.0350	0.0075	150.0000	0.0010	0.5000	0.0375	8700.0000	4260.0000	30.0000
Std. Dev.	0.0382	0.7328	0.0154	0.0193	354.6365	6534.0736	0.0716	0.0233	29.4941	0.0004	0.0000	0.0361	3300.7330	1026.0091	19.0716

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cells 1 - 7 / WMA #5 Well: MW 6A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	210.0	0.013	<0.07	<0.003	<0.001	450.0	440.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	1000.0	67.8
10/1999	143.0	0.016	<0.02	<0.003	<0.001	520.0	2090.0	<0.07	<0.01	258.0	<0.002	N/A	0.051	1960.0	11.86
4/2000	248.0	0.01	0.023	<0.003	<0.001	491.0	486.0	<0.07	<0.01	208.0	<0.002	N/A	0.043	924.0	65.6
10/2000	212.0	0.015	<0.02	<0.006	<0.004	469.0	1230.0	<0.07	<0.01	236.0	<0.002	N/A	0.047	1430.0	N/A
4/2001	224.0	0.013	0.025	<0.006	<0.004	467.0	549.0	<0.07	<0.01	228.0	<0.002	N/A	0.061	1330.0	N/A
10/2001	183.0	0.013	<0.02	<0.006	<0.004	499.0	1810.0	<0.07	<0.01	266.0	<0.002	N/A	0.09	1900.0	N/A
4/2002	156.0	0.013	0.036	<0.006	<0.004	536.0	2490.0	<0.07	<0.01	276.0	<0.002	N/A	0.11	2300.0	N/A
10/2002	270.0	0.013	<0.02	<0.006	<0.004	470.0	720.0	<0.07	<0.01	240.0	<0.002	N/A	0.057	1100.0	N/A
4/2003	300.0	<0.01	<0.02	<0.006	<0.004	520.0	560.0	<0.07	<0.01	270.0	<0.002	N/A	0.021	990.0	N/A
10/2003	210.0	<0.01	0.02	<0.006	<0.004	510.0	1400.0	<0.07	<0.01	250.0	<0.002	N/A	0.063	1700.0	N/A
4/2004	240.0	<0.01	0.045	<0.006	<0.004	440.0	380.0	<0.07	<0.01	220.0	<0.002	N/A	0.036	720.0	N/A
10/2004	280.0	0.01	0.021	<0.006	<0.004	500.0	470.0	<0.07	<0.01	250.0	<0.002	N/A	0.029	960.0	28.6
4/2005	240.0	0.011	0.021	<0.006	<0.004	450.0	290.0	<0.07	<0.01	240.0	<0.002	N/A	0.043	870.0	7.6
10/2005	190.0	0.011	<0.02	<0.006	<0.004	540.0	1700.0	<0.07	<0.01	310.0	<0.002	N/A	0.068	1700.0	11.4
4/2006	170.0	0.012	0.027	<0.006	<0.004	560.0	1900.0	<0.07	<0.01	310.0	<0.002	N/A	0.092	2000.0	8.68
10/2006	190.0	0.013	0.02	<0.0075	<0.004	510.0	1400.0	<0.07	<0.01	230.0	<0.002	N/A	0.056	1700.0	0.0106
4/2007	190.0	0.012	<0.02	<0.006	<0.004	470.0	300.0	<0.07	<0.01	200.0	<0.002	N/A	0.08	590.0	6.17
10/2007	190.0	0.017	0.022	<0.006	<0.004	540.0	1500.0	<0.07	<0.01	250.0	<0.002	N/A	0.037	2000.0	N/A
4/2008	240.0	0.019	0.31	<0.006	<0.004	470.0	260.0	<0.07	0.019	250.0	<0.002	N/A	0.048	690.0	0.0006
10/2008	223.0	<0.5	<10.0	<0.2	<0.25	518.0	370.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	635.0	0.0065
4/2009	272.0	<0.01	<0.02	<0.006	<0.004	447.0	161.0	<0.07	<0.01	214.0	<0.002	N/A	0.0432	517.0	5.15
10/2009	302.0	0.0107	<0.2	<0.016	<0.005	443.0	193.0	<0.01	<0.005	215.0	<0.001	N/A	0.0507	554.0	7.54
4/2010	190.0	<0.05	0.069	<0.006	<0.004	440.0	870.0	0.012	<0.01	220.0	<0.002	N/A	<0.047	1300.0	8.38
10/2010	200.0	<0.01	0.024	<0.006	<0.004	590.0	1400.0	<0.01	<0.002	260.0	<0.002	N/A	0.064	1500.0	6.19
4/2011	160.0	0.014	0.045	<0.006	<0.004	460.0	1300.0	<0.01	0.0017	220.0	<0.002	N/A	0.084	1600.0	N/A
10/2011	190.0	0.0087	<0.02	<0.006	<0.004	560.0	2300.0	<0.01	<0.001	270.0	<0.002	N/A	0.09	2300.0	N/A
10/2012	172.0	<0.05	<0.1	<0.03	<0.02	676.0	1910.0	<0.35	<0.05	300.0	<0.0005	N/A	<0.1	1940.0	9.5
4/2013	214.0	<0.01	0.0367	<0.006	<0.004	491.0	187.0	<0.07	0.0156	192.0	<0.002	N/A	0.0352	397.0	N/A
10/2013	235.0	<0.05	<0.1	<0.03	<0.02	544.0	874.0	<0.35	<0.05	243.0	<0.0005	N/A	<0.1	1170.0	7.74
4/2014	198.0	<0.05	<0.1	<0.03	<0.02	622.0	2050.0	<0.35	<0.05	279.0	<0.002	N/A	<0.1	2060.0	N/A
10/2014	213.0	<0.05	<0.1	<0.03	<0.02	607.0	2020.0	<0.35	<0.05	329.0	<0.0005	N/A	<0.1	1960.0	N/A
4/2015	160.0	<0.05	<0.1	<0.03	<0.02	548.0	1280.0	<0.35	<0.05	235.0	<0.002	N/A	<0.1	1710.0	N/A
10/2015	243.0	<0.05	<0.1	<0.03	<0.02	620.0	2300.0	<0.35	<0.05	328.0	<0.0005	N/A	<0.1	2150.0	N/A
4/2016	211.0	<0.05	<0.1	<0.03	<0.02	512.0	105.0	<0.35	<0.05	187.0	<0.0005	N/A	<0.1	357.0	N/A
10/2016	201.0	<0.05	<0.1	<0.03	<0.02	552.0	787.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	125.0	<0.05	<0.1	<0.03	<0.02	549.0	57.4	<0.35	<0.05	198.0	<0.002	N/A	<0.1	275.0	N/A
10/2017	186.0	0.0946	0.249	<0.03	<0.02	2890.0	2410.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	275.0	<0.05	<0.1	<0.03	<0.02	673.0	2250.0	<0.35	<0.05	398.0	<0.002	N/A	<0.1	2010.0	N/A
10/2018	241.0	<0.05	<0.1	<0.03	<0.02	545.0	39.7	<0.35	<0.05	133.0	<0.0005	N/A	<0.1	188.0	N/A
4/2019	N/A	0.0117	<0.01	<0.004	<0.005	438.0	58.9	<0.01	<0.01	155.0	<0.0002	N/A	0.012	197.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	688.0	1960.0	<0.2	<0.2	396.0	<0.0002	N/A	<0.2	2020.0	N/A
4/2020	N/A	0.0187	0.0183	<0.004	<0.005	486.0	847.0	<0.01	<0.01	254.0	<0.0002	N/A	0.0123	994.0	7.29

Minimum	125.0000	0.0050	0.0050	0.0015	0.0005	438.0000	39.7000	0.0050	0.0005	125.0000	0.0001		0.0100	188.0000	0.0006
Maximum	302.0000	0.2500	5.0000	0.1000	0.1250	2890.0000	2490.0000	0.2500	0.1250	398.0000	0.0010		0.2500	2300.0000	67.8000
Mean	213.1429	0.0243	0.1533	0.0094	0.0080	574.1111	1111.2500	0.0772	0.0158	245.6977	0.0008		0.0580	1291.7209	14.4177
Median	210.0000	0.0130	0.0355	0.0030	0.0020	512.0000	1052.0000	0.0350	0.0050	243.0000	0.0010		0.0500	1330.0000	7.6700
Std. Dev.	41.4356	0.0391	0.7326	0.0157	0.0194	358.8370	787.2603	0.0725	0.0232	56.5961	0.0003		0.0371	653.5458	20.0199

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cells 1 - 7 / WMA #5 Well: MW 6A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	250.0	0.078	<0.07	<0.003	<0.001	510.0	840.0	<0.07	<0.01	250.0	<0.002	N/A	0.088	1900.0	11.19
10/1999	28.8	0.076	<0.02	<0.003	<0.001	567.0	3280.0	<0.07	<0.01	339.0	<0.002	N/A	0.15	3820.0	22.1
4/2000	209.0	0.04	<0.02	<0.003	<0.001	465.0	1690.0	<0.07	<0.01	300.0	<0.002	N/A	0.083	2350.0	15.7
10/2000	241.0	0.14	<0.02	<0.006	<0.004	461.0	1160.0	<0.07	<0.01	259.0	<0.002	N/A	0.12	2560.0	N/A
4/2001	192.0	0.053	<0.02	<0.006	<0.004	480.0	2260.0	<0.07	<0.01	345.0	<0.002	N/A	0.13	2840.0	N/A
10/2001	175.0	0.041	<0.02	<0.006	<0.004	484.0	2990.0	<0.07	<0.01	337.0	<0.002	N/A	0.13	3050.0	N/A
4/2002	158.0	0.075	<0.02	<0.006	<0.004	513.0	2860.0	<0.07	<0.01	292.0	<0.002	N/A	0.14	3440.0	N/A
10/2002	200.0	0.086	<0.02	<0.006	<0.004	470.0	1700.0	<0.07	<0.01	250.0	<0.002	N/A	0.12	2300.0	N/A
4/2003	200.0	0.11	<0.02	<0.006	<0.004	560.0	1800.0	<0.07	<0.01	370.0	<0.002	N/A	0.14	3400.0	N/A
10/2003	160.0	0.032	0.026	<0.006	<0.004	520.0	3500.0	<0.07	<0.01	290.0	<0.002	N/A	0.14	3200.0	N/A
4/2004	190.0	0.019	<0.02	<0.006	<0.004	480.0	2200.0	<0.07	<0.01	310.0	<0.002	N/A	0.073	2400.0	N/A
10/2004	200.0	0.028	<0.02	<0.006	<0.004	500.0	1700.0	<0.07	<0.01	270.0	<0.002	N/A	0.085	2300.0	1.344
4/2005	160.0	0.082	<0.02	<0.006	<0.004	530.0	3000.0	<0.07	<0.01	310.0	<0.002	N/A	0.14	3200.0	17.4
10/2005	160.0	0.054	<0.02	<0.006	<0.004	530.0	3300.0	<0.07	<0.01	320.0	<0.002	N/A	0.14	3300.0	16.1
4/2006	180.0	0.051	<0.02	<0.006	<0.004	520.0	2200.0	<0.07	<0.01	230.0	<0.002	N/A	0.1	2800.0	10.11
10/2006	180.0	0.09	<0.02	<0.0075	<0.004	510.0	1700.0	<0.07	<0.01	140.0	<0.002	N/A	0.072	1900.0	0.0096
4/2007	180.0	0.066	<0.02	<0.006	<0.004	480.0	1200.0	<0.07	<0.01	210.0	<0.002	N/A	0.13	1800.0	10.7
10/2007	160.0	0.072	<0.02	<0.006	<0.004	550.0	3600.0	<0.07	<0.01	280.0	<0.002	N/A	0.14	3200.0	N/A
4/2008	180.0	0.046	<0.02	<0.006	<0.004	470.0	2000.0	<0.07	<0.01	260.0	<0.002	N/A	0.065	2300.0	0.0009
10/2008	176.0	<0.5	<10.0	<0.2	<0.25	547.0	1080.0	<0.5	<0.25	251.0	<0.001	N/A	<0.5	2070.0	0.0127
4/2009	237.0	0.0336	<0.02	<0.006	<0.004	429.0	889.0	<0.07	<0.01	225.0	<0.002	N/A	0.0863	1400.0	13.41
10/2009	190.0	0.0492	<0.2	<0.016	<0.005	450.0	1590.0	<0.01	<0.005	246.0	<0.001	N/A	0.0897	1930.0	11.34
4/2010	180.0	<0.05	0.037	<0.006	<0.004	440.0	2600.0	<0.01	<0.01	280.0	<0.002	N/A	0.087	2600.0	14.36
10/2010	160.0	0.1	0.034	<0.006	<0.004	530.0	3700.0	<0.01	<0.002	290.0	<0.002	N/A	0.15	3800.0	7.84
4/2011	170.0	0.072	0.08	<0.006	<0.004	450.0	2800.0	0.013	0.0057	270.0	<0.002	N/A	0.16	3400.0	N/A
10/2011	180.0	0.04	<0.02	<0.006	<0.004	450.0	2600.0	<0.01	<0.001	250.0	<0.002	N/A	0.12	2900.0	N/A
10/2012	146.0	0.274	<0.1	<0.03	<0.02	541.0	3990.0	<0.35	<0.05	275.0	<0.0005	N/A	0.166	3710.0	15.4
4/2013	235.0	0.0253	<0.02	<0.006	<0.004	452.0	1410.0	<0.07	0.0128	239.0	<0.002	N/A	0.067	1760.0	N/A
10/2013	223.0	<0.05	<0.1	<0.03	<0.02	533.0	2160.0	<0.35	<0.05	301.0	<0.0005	N/A	<0.1	2110.0	12.2
4/2014	163.0	<0.05	<0.1	<0.03	<0.02	523.0	3060.0	<0.35	<0.05	289.0	<0.002	N/A	<0.1	3260.0	N/A
10/2014	179.0	<0.05	<0.1	<0.03	<0.02	519.0	2070.0	<0.35	<0.05	249.0	<0.0005	N/A	<0.1	2500.0	N/A
4/2015	171.0	0.147	<0.1	<0.03	<0.02	539.0	2500.0	<0.35	<0.05	286.0	<0.002	N/A	0.119	2900.0	N/A
10/2015	169.0	<0.05	<0.1	<0.03	<0.02	570.0	3180.0	<0.35	<0.05	324.0	<0.0005	N/A	<0.1	3100.0	N/A
4/2016	203.0	<0.05	<0.1	<0.03	<0.02	505.0	1420.0	<0.35	<0.05	260.0	<0.0005	N/A	<0.1	1790.0	N/A
10/2016	184.0	<0.05	<0.1	<0.03	<0.02	532.0	2020.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	190.0	0.106	<0.1	<0.03	<0.02	541.0	1890.0	<0.35	<0.05	280.0	<0.002	N/A	<0.1	2420.0	N/A
10/2017	155.0	0.774	<0.1	<0.03	<0.02	2490.0	1930.0	<0.35	<0.05	N/A	<0.0005	N/A	0.631	N/A	N/A
4/2018	194.0	0.0929	<0.1	<0.03	<0.02	633.0	3270.0	<0.35	<0.05	359.0	<0.002	N/A	<0.1	3660.0	N/A
10/2018	218.0	0.0746	<0.1	<0.03	<0.02	570.0	896.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	1060.0	N/A
4/2019	N/A	0.0659	0.0137	<0.004	<0.005	418.0	1470.0	<0.01	<0.01	207.0	<0.0002	N/A	0.0568	1370.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	620.0	5520.0	<0.2	<0.2	281.0	<0.0002	N/A	<0.2	4400.0	N/A
4/2020	N/A	0.125	0.014	<0.004	<0.005	468.0	4360.0	<0.01	<0.01	288.0	<0.0002	N/A	0.0899	3100.0	17.0

Minimum	28.8000	0.0190	0.0100	0.0015	0.0005	418.0000	840.0000	0.0050	0.0005	140.0000	0.0001		0.0500	1060.0000	0.0009
Maximum	250.0000	0.7740	5.0000	0.1000	0.1250	2490.0000	5520.0000	0.2500	0.1250	370.0000	0.0010		0.6310	4400.0000	22.1000
Mean	182.6700	0.0876	0.1453	0.0094	0.0081	554.8837	2364.7674	0.0759	0.0155	275.8000	0.0008		0.1146	2687.8049	10.9010
Median	180.0000	0.0659	0.0137	0.0030	0.0020	513.0000	2200.0000	0.0350	0.0050	280.0000	0.0010		0.1000	2800.0000	11.7700
Std. Dev.	35.4054	0.1202	0.7584	0.0160	0.0199	305.8686	1017.7187	0.0723	0.0237	45.0220	0.0004		0.0915	757.6593	6.6542

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 8 / WMA #3 Well: MW 8A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	30.0	0.014	<0.07	<0.003	<0.001	1300.0	36000.0	<0.07	<0.01	290.0	<0.002	N/A	<0.02	22000.0	75.7
10/1999	32.1	0.016	0.022	<0.003	<0.001	1060.0	27900.0	<0.07	<0.01	297.0	<0.002	N/A	<0.02	20600.0	79.1
4/2000	35.8	0.017	0.029	0.011	<0.001	1410.0	29700.0	<0.07	<0.01	388.0	<0.002	N/A	<0.02	26400.0	84.1
10/2000	27.8	<0.01	0.031	<0.006	<0.004	1320.0	36500.0	<0.07	<0.01	383.0	<0.002	N/A	<0.057	24500.0	N/A
4/2001	120.0	<0.01	0.031	<0.006	<0.004	1300.0	31600.0	<0.07	<0.01	358.0	<0.002	N/A	<0.02	26800.0	N/A
10/2001	53.4	0.019	<0.02	0.0064	<0.004	1080.0	30600.0	<0.07	<0.01	313.0	<0.002	N/A	<0.02	13100.0	N/A
4/2002	34.0	0.014	0.024	<0.006	<0.004	1280.0	31900.0	<0.07	<0.01	381.0	<0.002	N/A	0.032	30100.0	N/A
10/2002	33.0	<0.01	0.032	<0.03	<0.004	1200.0	37000.0	<0.07	<0.01	340.0	<0.002	N/A	0.023	17000.0	N/A
4/2003	33.0	<0.01	0.023	<0.006	<0.004	1200.0	31000.0	<0.07	<0.01	350.0	<0.002	N/A	<0.02	23000.0	N/A
10/2003	28.0	<0.01	0.028	<0.01	<0.0070	1100.0	35000.0	<0.07	<0.01	340.0	<0.002	N/A	<0.02	24000.0	N/A
4/2004	31.0	0.021	0.034	<0.006	<0.004	1200.0	37000.0	<0.07	<0.01	340.0	<0.002	N/A	0.03	27000.0	N/A
10/2004	25.0	<0.01	0.025	<0.006	<0.004	1100.0	41000.0	<0.07	<0.01	290.0	<0.002	N/A	0.03	23000.0	67.7
4/2005	41.0	<0.01	0.023	<0.006	<0.004	1200.0	25000.0	<0.07	<0.01	340.0	<0.002	N/A	<0.02	22000.0	71.2
10/2005	32.0	0.018	0.03	<0.006	<0.004	1400.0	38000.0	<0.07	<0.01	300.0	<0.002	N/A	0.045	24000.0	86.2
4/2006	29.0	0.019	0.028	<0.006	<0.004	1400.0	45000.0	<0.07	<0.01	370.0	<0.002	N/A	0.09	27000.0	0.0432
10/2006	39.0	0.012	0.023	<0.015	<0.0045	940.0	36000.0	<0.07	<0.01	360.0	<0.002	N/A	0.029	25000.0	0.084
4/2007	31.0	<0.01	0.024	<0.03	<0.0090	1300.0	36000.0	<0.07	<0.01	380.0	<0.002	N/A	<0.02	24000.0	92.7
10/2007	35.0	0.076	<0.02	<0.006	<0.004	750.0	15000.0	<0.07	<0.01	120.0	<0.002	N/A	0.063	13000.0	N/A
4/2008	36.0	0.012	0.026	<0.006	<0.004	1300.0	37000.0	<0.07	<0.01	310.0	<0.002	N/A	<0.0070	22000.0	0.0091
10/2008	28.5	<0.04	<0.2	<0.016	<0.005	1410.0	28600.0	<0.01	<0.02	380.0	<0.001	N/A	<0.04	23900.0	0.0818
4/2009	35.0	<0.04	<0.08	<0.024	<0.016	1240.0	33800.0	<0.28	<0.04	317.0	<0.002	N/A	<0.08	20200.0	83.63
10/2009	35.8	<0.05	<1.0	<0.02	<0.025	1180.0	34800.0	<0.05	<0.025	301.0	<0.001	N/A	<0.05	19700.0	78.87
4/2010	36.0	<0.12	<0.1	<0.03	<0.02	1200.0	31000.0	<0.05	<0.025	330.0	<0.002	N/A	<0.12	25000.0	81.46
10/2010	34.0	<0.1	0.024	<0.006	<0.02	1000.0	35000.0	<0.05	<0.02	310.0	<0.002	N/A	<0.094	24000.0	67.13
4/2011	32.0	<0.2	<0.04	<0.012	<0.008	1200.0	42000.0	<0.02	<0.2	300.0	<0.002	N/A	<0.094	25000.0	N/A
10/2011	36.0	0.0065	<0.04	<0.012	<0.008	1300.0	34000.0	<0.02	0.0016	320.0	<0.002	N/A	<0.01	26000.0	N/A
4/2012	35.0	0.0076	0.025	<0.006	<0.02	1200.0	34000.0	<0.05	0.0011	320.0	0.0	N/A	<0.025	24000.0	N/A
10/2012	36.1	<0.05	<0.1	<0.03	<0.02	1310.0	38100.0	<0.35	<0.05	346.0	<0.0005	N/A	<0.1	23700.0	61.2
10/2013	81.0	0.0135	0.0218	<0.006	<0.004	990.0	36000.0	<0.07	<0.01	265.0	<0.0005	N/A	<0.02	23700.0	91.8
4/2014	37.3	<0.05	<0.1	<0.03	<0.02	1360.0	35600.0	<0.35	<0.05	356.0	<0.002	N/A	<0.1	23600.0	N/A
10/2014	42.0	<0.05	<0.1	<0.03	<0.02	1220.0	43400.0	<0.35	<0.05	324.0	<0.0005	N/A	<0.1	23400.0	N/A
4/2015	34.7	<0.05	<0.1	<0.03	<0.02	1220.0	37800.0	<0.35	<0.05	309.0	<0.002	N/A	<0.1	24000.0	N/A
10/2015	36.6	<0.05	<0.1	<0.03	<0.02	1210.0	31200.0	<0.35	<0.2	321.0	<0.0005	N/A	<0.1	23700.0	N/A
4/2016	38.5	<0.05	<0.1	<0.03	<0.02	1420.0	37300.0	<0.35	<0.25	391.0	<0.002	N/A	<0.1	26200.0	N/A
10/2016	35.1	<0.05	<0.1	<0.03	<0.02	1320.0	36500.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	30.5	<0.05	<0.1	<0.03	<0.02	1300.0	37500.0	<0.35	<0.05	353.0	<0.002	N/A	<0.1	26000.0	N/A
10/2017	32.5	<0.05	<0.1	<0.03	<0.02	1250.0	41700.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	36.8	<0.05	<0.1	<0.03	<0.02	1230.0	34600.0	<0.35	<0.05	343.0	<0.002	N/A	<0.1	24500.0	N/A
10/2018	40.4	<0.05	<0.1	<0.03	<0.02	1170.0	33500.0	<0.35	<0.05	314.0	<0.0005	N/A	<0.1	1000000.0	N/A
4/2019	N/A	<0.1	<0.1	<0.04	<0.05	1210.0	50900.0	<0.1	<0.1	347.0	<0.0002	N/A	<0.1	23100.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1320.0	48700.0	<0.2	<0.2	356.0	<0.0002	N/A	<0.2	19900.0	N/A
4/2020	N/A	<0.05	<0.05	<0.02	<0.025	1220.0	44400.0	<0.05	<0.05	355.0	<0.0002	N/A	<0.05	18200.0	86.8

Minimum	25.0000	0.0044	0.0100	0.0015	0.0005	700.0000	3500.0000	0.0050	0.0005	120.0000	0.0000		0.0035	3800.0000	0.0091
Maximum	120.0000	0.1000	0.5000	0.0400	0.0500	1420.0000	50900.0000	0.1750	0.1250	391.0000	0.0010		0.1000	1000000.0000	92.7000
Mean	37.6568	0.0227	0.0456	0.0087	0.0066	1204.6809	34810.6383	0.0683	0.0194	329.7333	0.0008		0.0324	44446.6667	61.5449
Median	35.0000	0.0190	0.0300	0.0060	0.0035	1210.0000	35600.0000	0.0350	0.0050	340.0000	0.0010		0.0290	23900.0000	77.2850
Std. Dev.	15.2766	0.0222	0.0701	0.0071	0.0081	150.9945	7549.8988	0.0630	0.0288	44.2418	0.0004		0.0226	145747.4132	34.8275

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 8 / WMA #3 Well: MW 8A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	30.0	0.027	<0.07	<0.003	<0.001	790.0	14000.0	<0.07	<0.01	130.0	<0.002	N/A	0.06	11000.0	46.6
10/1999	35.0	0.029	<0.02	<0.003	<0.001	738.0	11000.0	<0.07	<0.01	134.0	<0.002	N/A	0.056	11400.0	43.7
4/2000	34.0	0.024	<0.02	0.0051	<0.001	695.0	11700.0	<0.07	<0.01	133.0	<0.002	N/A	0.06	11100.0	48.4
10/2000	33.8	0.027	0.036	<0.006	<0.004	802.0	13800.0	<0.07	<0.01	146.0	<0.002	N/A	0.056	12500.0	N/A
4/2001	33.4	0.024	0.022	<0.006	<0.004	794.0	11500.0	<0.07	<0.01	148.0	<0.002	N/A	0.095	12500.0	N/A
10/2001	35.4	0.032	<0.02	<0.006	<0.004	708.0	11600.0	<0.07	<0.01	115.0	<0.002	N/A	0.063	10100.0	N/A
4/2002	34.7	0.038	<0.02	<0.006	<0.004	760.0	11400.0	<0.07	<0.01	135.0	<0.002	N/A	0.11	11500.0	N/A
10/2002	36.0	0.036	<0.02	<0.03	<0.004	670.0	15000.0	<0.07	<0.01	110.0	<0.002	N/A	0.087	9700.0	N/A
4/2003	33.0	0.046	<0.02	<0.006	<0.004	720.0	14000.0	<0.07	<0.01	130.0	<0.002	N/A	0.13	10000.0	N/A
10/2003	34.0	0.03	<0.02	<0.006	<0.004	700.0	13000.0	<0.07	<0.01	120.0	<0.002	N/A	0.095	11000.0	N/A
4/2004	30.0	0.021	<0.02	0.0072	<0.004	810.0	11000.0	<0.07	<0.01	150.0	<0.002	N/A	0.066	9900.0	N/A
10/2004	34.0	0.032	<0.02	<0.006	<0.004	650.0	16000.0	<0.07	<0.01	100.0	<0.002	N/A	0.075	9200.0	43.3
4/2005	33.0	0.038	<0.02	<0.006	<0.004	670.0	14000.0	<0.07	<0.01	110.0	<0.002	N/A	0.071	9300.0	39.1
10/2005	32.0	0.041	<0.02	<0.006	<0.004	720.0	15000.0	<0.07	<0.01	110.0	<0.002	N/A	0.098	10000.0	43.4
4/2006	32.0	0.035	<0.02	<0.006	<0.004	620.0	12000.0	<0.07	<0.01	100.0	<0.002	N/A	0.083	12000.0	0.0248
10/2006	34.0	0.03	<0.02	<0.0075	<0.004	660.0	13000.0	<0.07	<0.01	130.0	<0.002	N/A	0.068	12000.0	0.0498
4/2007	32.0	0.044	<0.02	<0.006	<0.004	610.0	13000.0	<0.07	<0.01	110.0	<0.002	N/A	0.093	19000.0	0.0508
10/2007	31.0	0.038	<0.02	<0.006	<0.004	710.0	11000.0	<0.07	<0.01	130.0	<0.002	N/A	0.071	12000.0	N/A
4/2008	35.0	0.027	0.04	<0.006	<0.004	800.0	18000.0	<0.07	<0.01	150.0	<0.002	N/A	0.056	13000.0	0.0051
10/2008	27.9	0.0303	<0.2	<0.008	<0.005	765.0	14500.0	<0.01	<0.01	134.0	<0.001	N/A	0.0708	10200.0	0.0454
4/2009	35.2	0.038	<0.04	<0.012	<0.008	729.0	10600.0	<0.14	<0.02	122.0	<0.002	N/A	0.0558	10100.0	32.83
10/2009	37.9	<0.05	<1.0	<0.02	<0.025	675.0	11300.0	<0.05	<0.025	104.0	<0.001	N/A	0.0509	8610.0	38.84
4/2010	33.0	<0.12	<0.02	<0.006	<0.004	640.0	12000.0	<0.01	<0.025	100.0	<0.002	N/A	<0.12	10000.0	43.6
10/2010	35.0	<0.1	<0.02	<0.006	<0.02	640.0	14000.0	<0.05	<0.02	110.0	<0.002	N/A	<0.094	11000.0	32.93
4/2011	34.0	<0.2	<0.02	<0.006	<0.004	630.0	13000.0	<0.01	<0.2	100.0	<0.002	N/A	<0.094	9800.0	N/A
10/2011	36.0	0.034	<0.02	<0.006	<0.004	630.0	14000.0	<0.01	<0.001	93.0	<0.002	N/A	0.039	9400.0	N/A
4/2012	34.0	0.034	0.011	<0.006	<0.02	680.0	12000.0	<0.05	<0.001	110.0	0.0	N/A	0.033	10000.0	N/A
10/2012	32.9	<0.05	<0.1	<0.03	<0.02	761.0	11700.0	<0.35	<0.05	117.0	<0.0005	N/A	<0.1	9070.0	29.1
10/2013	32.5	0.0358	<0.02	<0.006	<0.004	624.0	12200.0	<0.07	<0.01	101.0	<0.0005	N/A	0.0429	10300.0	39.8
4/2014	34.8	<0.05	<0.1	<0.03	<0.02	706.0	11600.0	<0.35	<0.05	113.0	<0.002	N/A	<0.1	10300.0	N/A
10/2014	35.9	<0.05	<0.1	<0.03	<0.02	713.0	13400.0	<0.35	<0.05	115.0	<0.0005	N/A	<0.1	10400.0	N/A
4/2015	34.4	<0.05	<0.1	<0.03	<0.02	758.0	13900.0	<0.35	<0.05	125.0	<0.002	N/A	<0.1	10700.0	N/A
10/2015	35.1	<0.05	<0.1	<0.03	<0.02	673.0	11500.0	<0.35	<0.05	107.0	<0.0005	N/A	<0.1	9690.0	N/A
4/2016	37.2	<0.05	<0.1	<0.03	<0.02	819.0	11600.0	<0.35	<0.05	145.0	<0.002	N/A	<0.1	11000.0	N/A
10/2016	34.7	<0.05	<0.1	<0.03	<0.02	768.0	13900.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	35.0	<0.05	<0.1	<0.03	<0.02	705.0	11900.0	<0.35	<0.05	115.0	<0.002	N/A	<0.1	9470.0	N/A
10/2017	34.0	<0.05	<0.1	<0.03	<0.02	760.0	14600.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	34.1	<0.05	<0.1	<0.03	<0.02	769.0	11900.0	<0.35	<0.05	136.0	<0.002	N/A	<0.1	11700.0	N/A
10/2018	34.0	<0.05	<0.1	<0.03	<0.02	803.0	14000.0	<0.35	<0.05	135.0	<0.0005	N/A	<0.1	4720.0	N/A
4/2019	N/A	0.0521	0.019	<0.004	<0.025	876.0	22500.0	<0.01	<0.05	167.0	<0.0002	N/A	<0.05	12400.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	861.0	21500.0	<0.2	<0.2	159.0	<0.0002	N/A	<0.2	12000.0	N/A
4/2020	N/A	0.0345	0.0129	<0.02	<0.005	665.0	19600.0	<0.05	<0.01	134.0	<0.0002	N/A	0.018	10500.0	52.2

Minimum	27.9000	0.0210	0.0100	0.0015	0.0005	610.0000	10600.0000	0.0025	0.0005	93.0000	0.0000		0.0180	4720.0000	0.0051
Maximum	37.9000	0.1000	0.5000	0.0400	0.0500	876.0000	22500.0000	0.1750	0.1000	167.0000	0.0010		0.1300	19000.0000	52.2000
Mean	33.8116	0.0352	0.0371	0.0075	0.0058	720.3830	13323.9130	0.0681	0.0148	123.2889	0.0008		0.0635	10823.5556	29.6653
Median	34.0000	0.0312	0.0110	0.0030	0.0020	710.0000	12600.0000	0.0350	0.0050	120.0000	0.0010		0.0560	10500.0000	38.9700
Std. Dev.	1.9700	0.0157	0.0728	0.0072	0.0077	65.0664	2625.4468	0.0651	0.0203	17.1790	0.0004		0.0240	1899.7693	19.7005

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 8 / WMA #3 Well: MW 8A3
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	25.0	0.047	<0.07	<0.003	<0.001	850.0	16000.0	<0.07	<0.01	150.0	<0.002	N/A	0.08	14000.0	46.7
10/1999	31.9	0.038	<0.02	<0.003	<0.001	848.0	14300.0	<0.07	<0.01	168.0	<0.002	N/A	0.065	15300.0	52.1
4/2000	40.3	0.1	<0.02	0.0083	0.0044	876.0	8160.0	<0.07	<0.01	162.0	<0.002	N/A	0.14	11900.0	58.1
10/2000	28.5	0.028	0.031	<0.006	<0.004	989.0	21700.0	<0.07	<0.01	202.0	<0.002	N/A	<0.057	17300.0	N/A
4/2001	43.0	0.13	<0.02	<0.006	<0.004	708.0	8260.0	<0.07	<0.01	109.0	<0.002	N/A	0.059	11100.0	N/A
10/2001	28.7	0.044	<0.02	<0.006	<0.004	672.0	11800.0	<0.07	<0.01	99.3	<0.002	N/A	0.099	9790.0	N/A
4/2002	37.5	0.043	<0.02	<0.006	<0.004	887.0	10900.0	<0.07	<0.01	186.0	<0.002	N/A	0.088	16500.0	N/A
10/2002	35.0	0.032	<0.02	<0.03	<0.004	890.0	15000.0	<0.07	<0.01	190.0	<0.002	N/A	0.066	16000.0	N/A
4/2003	32.0	0.15	<0.02	<0.006	<0.004	710.0	14000.0	<0.07	<0.01	120.0	<0.002	N/A	0.12	11000.0	N/A
10/2003	36.0	0.088	<0.02	<0.006	<0.004	630.0	13000.0	<0.07	<0.01	100.0	<0.002	N/A	0.084	9400.0	N/A
4/2004	37.0	0.13	<0.02	<0.006	<0.004	620.0	13000.0	<0.07	<0.01	110.0	<0.002	N/A	0.073	10000.0	N/A
10/2004	34.0	0.062	<0.02	<0.006	<0.004	740.0	16000.0	<0.07	<0.01	130.0	<0.002	N/A	0.079	12000.0	56.0
4/2005	45.0	0.12	<0.02	<0.006	<0.004	600.0	7300.0	<0.07	<0.01	100.0	<0.002	N/A	0.052	8600.0	41.7
10/2005	36.0	0.12	<0.02	<0.006	<0.004	670.0	15000.0	<0.07	<0.01	94.0	<0.002	N/A	0.1	9400.0	60.6
4/2006	36.0	0.041	<0.02	<0.006	<0.004	930.0	11000.0	<0.07	<0.01	170.0	<0.002	N/A	0.053	16000.0	0.0234
10/2006	36.0	0.037	<0.02	<0.0075	<0.004	740.0	15000.0	<0.07	<0.01	160.0	<0.002	N/A	0.05	14000.0	0.0391
4/2007	33.0	0.061	<0.02	<0.015	<0.0045	670.0	10000.0	<0.07	<0.01	140.0	<0.002	N/A	0.047	11000.0	42.6
10/2007	30.0	0.028	0.025	<0.006	<0.004	1100.0	36000.0	<0.07	<0.01	320.0	<0.002	N/A	0.025	26000.0	N/A
4/2008	38.0	0.055	<0.02	<0.006	<0.004	780.0	13000.0	<0.07	<0.01	130.0	<0.002	N/A	0.025	12000.0	0.004
10/2008	23.4	0.0301	<0.2	<0.008	<0.005	865.0	13700.0	<0.01	<0.02	161.0	<0.001	N/A	0.0486	12200.0	0.0557
4/2009	60.3	0.118	<0.02	<0.006	<0.004	631.0	6570.0	<0.07	<0.02	90.3	<0.002	N/A	<0.04	7750.0	33.71
10/2009	<5.0	<0.05	<1.0	<0.02	<0.025	793.0	18700.0	<0.05	<0.025	138.0	<0.001	N/A	<0.05	10800.0	54.85
4/2010	41.0	<0.12	<0.02	<0.006	<0.004	630.0	13000.0	<0.01	<0.005	96.0	<0.002	N/A	<0.12	10000.0	37.96
10/2010	39.0	<0.1	<0.02	<0.006	<0.02	790.0	17000.0	<0.05	<0.01	160.0	<0.002	N/A	<0.094	15000.0	46.6
4/2011	48.0	<0.2	<0.02	<0.006	<0.004	510.0	10000.0	<0.01	<0.2	87.0	<0.002	N/A	<0.094	8000.0	N/A
10/2011	39.0	0.021	<0.04	<0.012	<0.008	910.0	18000.0	<0.02	<0.001	170.0	<0.002	N/A	0.013	15000.0	N/A
4/2012	42.0	0.083	0.0084	<0.006	<0.004	520.0	11000.0	<0.01	<0.005	86.0	0.0	N/A	0.014	7900.0	N/A
10/2012	40.8	<0.05	<0.1	<0.03	<0.02	905.0	20100.0	<0.35	<0.05	170.0	<0.0005	N/A	<0.1	8950.0	42.4
10/2013	42.0	0.04	<0.02	<0.006	<0.004	692.0	12100.0	<0.07	<0.01	116.0	<0.0005	N/A	0.0219	11400.0	39.1
4/2014	46.0	0.173	<0.1	<0.03	<0.02	631.0	8570.0	<0.35	<0.05	100.0	<0.002	N/A	<0.1	7300.0	N/A
10/2014	36.5	<0.05	<0.1	<0.03	<0.02	873.0	18900.0	<0.35	<0.05	162.0	<0.0005	N/A	<0.1	14600.0	N/A
4/2015	41.1	0.0584	<0.1	<0.03	<0.02	795.0	11500.0	<0.35	<0.05	136.0	<0.002	N/A	<0.1	11100.0	N/A
10/2015	39.0	<0.05	<0.1	<0.03	<0.02	892.0	13200.0	<0.35	<0.05	159.0	<0.0005	N/A	<0.1	13300.0	N/A
4/2016	37.8	0.0509	<0.1	<0.03	<0.02	674.0	9150.0	<0.35	<0.05	114.0	<0.002	N/A	<0.1	7730.0	N/A
10/2016	34.2	0.0941	<0.1	<0.03	<0.02	687.0	11500.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	31.5	<0.05	<0.1	<0.03	<0.02	564.0	9190.0	<0.35	<0.05	91.1	<0.002	N/A	<0.1	7740.0	N/A
10/2017	36.0	<0.05	<0.1	<0.03	<0.02	789.0	18300.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	35.1	0.135	<0.1	<0.03	<0.02	609.0	9720.0	<0.35	<0.05	99.4	<0.002	N/A	<0.1	8180.0	N/A
10/2018	29.8	0.0884	<0.1	<0.03	<0.02	784.0	20000.0	<0.35	<0.05	137.0	<0.0005	N/A	<0.1	4790.0	N/A
4/2019	N/A	0.1	<0.01	<0.004	<0.005	539.0	11800.0	<0.01	<0.01	96.9	<0.0002	N/A	0.0141	6050.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	833.0	24700.0	<0.2	<0.2	155.0	<0.0002	N/A	<0.2	12100.0	N/A
4/2020	N/A	0.237	<0.01	<0.02	<0.005	520.0	10000.0	<0.01	<0.01	92.2	<0.0002	N/A	0.0294	8130.0	47.8

Minimum	2.5000	0.0210	0.0050	0.0015	0.0005	510.0000	6570.0000	0.0050	0.0005	86.0000	0.0000		0.0130	4790.0000	0.0040
Maximum	60.3000	0.2370	0.5000	0.0400	0.0500	1100.0000	36000.0000	0.1750	0.1000	320.0000	0.0010		0.1400	26000.0000	60.6000
Mean	36.3714	0.0735	0.0378	0.0081	0.0059	742.0667	13650.8889	0.0719	0.0152	134.5395	0.0008		0.0565	11501.1628	36.2864
Median	36.2500	0.0584	0.0100	0.0038	0.0023	729.0000	13000.0000	0.0350	0.0050	130.0000	0.0010		0.0500	11100.0000	42.4000
Std. Dev.	8.4488	0.0492	0.0744	0.0073	0.0078	135.7922	5358.7913	0.0681	0.0206	43.5126	0.0004		0.0291	3834.4151	20.8582

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 10 / WMA #2 Well: MW 21
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	56.0	0.021	<0.02	<0.003	<0.001	780.0	11000.0	<0.07	<0.01	150.0	<0.002	N/A	0.089	8500.0	34.5
10/1999	58.8	0.013	0.027	<0.003	<0.001	919.0	14700.0	<0.07	<0.01	210.0	<0.002	N/A	0.041	13100.0	36.4
4/2000	51.3	0.032	<0.02	0.0038	<0.001	747.0	12800.0	<0.07	<0.01	171.0	<0.002	N/A	0.14	7850.0	34.6
10/2000	47.9	0.012	0.023	<0.006	<0.004	908.0	18900.0	<0.07	<0.01	211.0	<0.002	N/A	0.049	11400.0	N/A
4/2001	61.7	0.043	0.056	<0.006	<0.004	962.0	11500.0	<0.07	<0.01	222.0	<0.002	N/A	0.062	14800.0	N/A
10/2001	64.5	0.031	<0.02	<0.006	<0.004	801.0	10200.0	<0.07	<0.01	185.0	<0.002	N/A	0.16	9020.0	N/A
4/2002	59.0	0.043	0.025	<0.006	<0.004	792.0	11700.0	<0.07	<0.01	182.0	<0.002	N/A	0.14	9390.0	N/A
10/2002	49.0	0.019	0.021	<0.006	<0.004	850.0	17000.0	<0.07	0.027	190.0	<0.002	N/A	0.1	11000.0	N/A
4/2003	42.0	0.051	0.034	<0.006	<0.004	910.0	21000.0	<0.07	<0.01	210.0	<0.002	N/A	0.076	12000.0	N/A
10/2003	57.0	0.03	0.022	<0.006	<0.004	820.0	11000.0	<0.07	<0.01	190.0	<0.002	N/A	0.14	11000.0	N/A
4/2004	47.0	0.017	0.028	<0.006	<0.004	870.0	16000.0	<0.07	<0.01	200.0	<0.002	N/A	0.082	12000.0	N/A
10/2004	50.0	0.035	0.021	<0.006	<0.004	720.0	17000.0	<0.07	<0.01	150.0	<0.002	N/A	0.14	8500.0	35.0
4/2005	54.0	0.03	0.036	<0.006	<0.004	780.0	17000.0	<0.07	<0.01	180.0	<0.002	N/A	0.2	8700.0	37.6
10/2005	60.0	0.028	<0.02	<0.006	<0.004	820.0	14000.0	<0.07	<0.01	180.0	<0.002	N/A	0.19	9800.0	40.0
4/2006	53.0	0.057	0.024	<0.006	<0.004	780.0	13000.0	<0.07	<0.01	180.0	<0.002	N/A	0.15	11000.0	0.0256
10/2006	59.0	0.033	0.023	<0.0075	<0.004	720.0	12000.0	<0.07	<0.01	180.0	<0.002	N/A	0.19	8700.0	0.0384
4/2007	55.0	0.023	0.022	<0.006	<0.004	730.0	12000.0	<0.07	<0.01	190.0	<0.002	N/A	0.17	9800.0	46.9
10/2007	49.0	0.023	<0.02	<0.006	<0.004	740.0	14000.0	<0.07	<0.01	170.0	<0.002	N/A	0.24	8500.0	N/A
4/2008	43.0	0.057	0.024	<0.006	<0.004	790.0	22000.0	<0.07	<0.01	170.0	<0.002	N/A	0.17	9100.0	0.0053
10/2008	38.9	0.36	0.306	<0.008	<0.005	783.0	16800.0	0.0405	<0.01	195.0	<0.001	N/A	0.172	10700.0	0.0361
4/2009	48.2	<0.02	<0.02	<0.006	<0.004	692.0	8930.0	<0.07	<0.02	147.0	<0.002	N/A	0.231	6640.0	35.97
10/2009	69.7	<0.05	<1.0	<0.02	<0.025	775.0	<400.0	<0.05	<0.025	166.0	<0.001	N/A	0.239	6550.0	32.94
4/2010	66.0	<0.12	<0.02	<0.006	<0.004	650.0	8800.0	<0.01	<0.025	150.0	<0.002	N/A	0.22	8300.0	34.54
10/2010	54.0	<0.1	<0.02	<0.006	<0.02	730.0	13000.0	<0.05	<0.02	170.0	<0.002	N/A	0.16	10000.0	42.28
4/2011	63.0	<0.2	<0.02	<0.006	<0.004	680.0	12000.0	<0.01	<0.2	150.0	<0.002	N/A	0.25	8700.0	N/A
10/2011	52.0	0.02	<0.02	<0.006	<0.004	740.0	14000.0	<0.01	<0.001	160.0	<0.002	N/A	0.22	8300.0	N/A
4/2012	60.0	0.016	0.017	<0.006	<0.004	650.0	11000.0	<0.01	<0.001	160.0	0.0	N/A	0.19	8200.0	N/A
10/2012	60.7	<0.05	<0.1	<0.03	<0.02	787.0	9870.0	<0.35	<0.05	163.0	<0.0005	N/A	0.188	9100.0	24.7
10/2013	38.8	0.0144	0.0213	<0.006	<0.004	729.0	15100.0	<0.07	<0.01	149.0	<0.0005	N/A	0.179	10300.0	45.6
4/2014	59.0	<0.05	<0.1	<0.03	<0.02	823.0	14200.0	<0.35	<0.05	168.0	<0.002	N/A	0.182	9210.0	N/A
10/2014	68.0	<0.05	<0.1	<0.03	<0.02	889.0	12100.0	<0.35	<0.05	189.0	<0.0005	N/A	0.177	11300.0	N/A
4/2015	61.4	<0.05	<0.1	<0.03	<0.02	898.0	10800.0	<0.35	<0.05	188.0	<0.002	N/A	0.189	10400.0	N/A
10/2015	108.0	<0.05	<0.1	<0.03	<0.02	912.0	11400.0	<0.35	<0.05	196.0	<0.0005	N/A	0.159	11800.0	N/A
4/2016	59.3	<0.05	<0.1	<0.03	<0.02	783.0	10200.0	<0.35	<0.05	172.0	<0.002	N/A	0.218	8300.0	N/A
10/2016	58.8	<0.05	<0.1	<0.03	<0.02	762.0	9750.0	<0.35	<0.05	N/A	<0.0005	N/A	0.215	N/A	N/A
4/2017	51.5	<0.05	<0.1	<0.03	<0.02	736.0	9660.0	<0.35	<0.05	159.0	<0.002	N/A	0.174	8530.0	N/A
10/2017	55.5	<0.05	<0.1	<0.03	<0.02	809.0	8860.0	<0.35	<0.05	N/A	<0.0005	N/A	0.177	N/A	N/A
4/2018	53.2	<0.05	<0.1	<0.03	<0.02	901.0	11200.0	<0.35	<0.05	195.0	<0.002	N/A	0.16	11000.0	N/A
10/2018	44.1	0.159	<0.1	<0.03	<0.02	978.0	19300.0	<0.35	<0.05	212.0	<0.0005	N/A	0.149	5050.0	N/A
4/2019	N/A	<0.05	<0.05	<0.02	<0.025	1100.0	34200.0	<0.05	<0.05	260.0	<0.0002	N/A	0.0959	14800.0	N/A
10/2019	N/A	0.0598	0.0644	<0.02	<0.025	907.0	23900.0	<0.05	<0.05	208.0	<0.0002	N/A	0.104	9710.0	N/A
4/2020	N/A	0.0672	<0.05	<0.02	<0.025	750.0	24900.0	<0.05	<0.05	176.0	<0.0002	N/A	0.105	11300.0	62.2

Minimum	38.8000	0.0100	0.0100	0.0015	0.0005	650.0000	200.0000	0.0050	0.0005	140.0000	0.0000		0.0410	5050.0000	0.0053
Maximum	108.0000	0.3600	0.5000	0.0150	0.0125	1100.0000	34200.0000	0.1750	0.1000	260.0000	0.0010		0.3200	14800.0000	62.2000
Mean	56.0073	0.0438	0.0476	0.0065	0.0050	799.7609	13953.8636	0.0652	0.0143	179.1591	0.0008		0.1773	9647.5000	30.5598
Median	55.5000	0.0250	0.0240	0.0030	0.0020	783.0000	12450.0000	0.0350	0.0050	179.5000	0.0010		0.1805	9155.0000	35.0000
Std. Dev.	11.1725	0.0551	0.0839	0.0052	0.0043	95.3760	5452.3642	0.0652	0.0161	24.1910	0.0004		0.0586	1987.2326	17.8197

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 10 / WMA #2 Well: MW 22
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	230.0	<0.01	<0.02	<0.003	0.0011	1000.0	9700.0	<0.07	<0.01	270.0	<0.002	N/A	<0.02	15000.0	57.7
10/1999	255.0	0.019	<0.02	<0.003	<0.001	896.0	14800.0	<0.07	<0.01	321.0	<0.002	N/A	0.04	13100.0	52.2
4/2000	225.0	0.021	<0.02	0.0038	<0.001	876.0	12100.0	<0.07	<0.01	340.0	<0.002	N/A	<0.02	11000.0	65.5
10/2000	118.0	0.019	<0.02	<0.006	<0.004	868.0	19500.0	<0.07	<0.01	326.0	<0.002	N/A	0.046	10500.0	N/A
4/2001	223.0	0.019	<0.02	<0.006	<0.004	877.0	12300.0	<0.07	<0.01	375.0	<0.002	N/A	0.033	10700.0	N/A
10/2001	230.0	0.015	<0.02	<0.006	<0.004	839.0	10800.0	<0.07	<0.01	380.0	<0.002	N/A	<0.02	9270.0	N/A
4/2002	233.0	0.02	<0.02	<0.006	<0.004	842.0	11000.0	<0.07	<0.01	371.0	<0.002	N/A	0.021	10700.0	N/A
10/2002	210.0	0.017	<0.02	<0.006	<0.004	850.0	14000.0	<0.07	<0.01	370.0	<0.002	N/A	0.02	9900.0	N/A
4/2003	210.0	0.023	<0.02	<0.006	<0.004	860.0	14000.0	<0.07	<0.01	350.0	<0.002	N/A	0.048	9000.0	N/A
10/2003	180.0	0.019	<0.02	<0.006	<0.004	780.0	15000.0	<0.07	<0.01	330.0	<0.002	N/A	0.036	9700.0	N/A
4/2004	220.0	0.026	<0.02	<0.006	<0.004	800.0	11000.0	<0.07	<0.01	350.0	<0.002	N/A	0.026	9800.0	N/A
10/2004	200.0	0.018	<0.02	<0.006	<0.004	810.0	14000.0	<0.07	<0.01	330.0	<0.002	N/A	<0.02	8900.0	40.6
4/2005	180.0	0.016	<0.02	<0.006	<0.004	810.0	10000.0	<0.07	<0.01	300.0	<0.002	N/A	<0.02	8800.0	39.2
10/2005	180.0	0.023	<0.02	<0.006	<0.004	860.0	13000.0	<0.07	<0.01	320.0	<0.002	N/A	0.031	9900.0	39.6
4/2006	200.0	0.02	<0.02	<0.006	<0.004	800.0	12000.0	<0.07	<0.01	330.0	<0.002	N/A	<0.02	11000.0	0.0395
10/2006	190.0	0.016	<0.02	<0.0075	<0.004	780.0	14000.0	<0.07	<0.01	370.0	<0.002	N/A	<0.02	9300.0	0.0433
4/2007	210.0	0.027	<0.02	<0.006	<0.004	830.0	12000.0	<0.07	<0.01	270.0	<0.002	N/A	0.02	7900.0	41.3
10/2007	180.0	0.026	<0.02	<0.006	<0.004	790.0	13000.0	<0.07	<0.01	320.0	<0.002	N/A	0.05	10000.0	N/A
4/2008	130.0	0.018	<0.02	<0.006	<0.004	860.0	21000.0	<0.07	<0.01	290.0	<0.002	N/A	0.037	11000.0	0.0054
10/2008	150.0	0.0288	<0.2	<0.008	<0.005	911.0	14100.0	<0.01	<0.02	339.0	<0.001	N/A	0.0497	9350.0	0.0511
4/2009	180.0	<0.02	<0.02	<0.006	<0.004	784.0	13900.0	<0.07	<0.02	314.0	<0.002	N/A	<0.04	7290.0	48.39
10/2009	216.0	<0.05	<1.0	<0.02	<0.025	924.0	13000.0	<0.05	<0.025	384.0	<0.001	N/A	<0.05	7220.0	39.13
4/2010	180.0	<0.1	<0.05	<0.03	<0.02	780.0	14000.0	<0.05	<0.02	310.0	<0.002	N/A	<0.094	10000.0	51.5
10/2010	180.0	<0.1	<0.02	<0.006	<0.004	740.0	15000.0	<0.01	<0.02	240.0	<0.002	N/A	<0.094	6000.0	34.12
4/2011	210.0	<0.2	<0.02	<0.006	<0.004	730.0	14000.0	<0.01	<0.2	330.0	<0.002	N/A	<0.094	9100.0	N/A
10/2011	220.0	0.016	<0.02	<0.006	<0.004	740.0	12000.0	<0.01	<0.001	290.0	<0.002	N/A	0.0056	8400.0	N/A
4/2012	210.0	0.013	0.014	<0.006	<0.02	930.0	13000.0	<0.05	<0.001	330.0	0.0	N/A	0.021	13000.0	N/A
10/2012	161.0	<0.05	<0.1	<0.03	<0.02	981.0	17600.0	<0.35	<0.05	303.0	<0.0005	N/A	<0.1	12800.0	33.9
4/2013	215.0	0.0168	<0.02	<0.006	<0.016	914.0	12100.0	<0.28	<0.04	350.0	<0.002	N/A	<0.01	8420.0	N/A
10/2013	176.0	0.0213	<0.02	<0.006	<0.004	733.0	14300.0	<0.07	<0.01	304.0	<0.0005	N/A	<0.02	8560.0	42.8
4/2014	215.0	<0.05	<0.1	<0.03	<0.02	944.0	11100.0	<0.35	<0.05	395.0	<0.002	N/A	<0.1	8750.0	N/A
10/2014	217.0	<0.05	<0.1	<0.03	<0.02	833.0	12700.0	<0.35	<0.05	342.0	<0.0005	N/A	<0.1	9010.0	N/A
4/2015	203.0	<0.05	<0.1	<0.03	<0.02	878.0	11900.0	<0.35	<0.05	358.0	<0.002	N/A	<0.1	8690.0	N/A
10/2015	209.0	<0.05	<0.1	<0.03	<0.02	947.0	14900.0	<0.35	<0.05	346.0	<0.0005	N/A	<0.1	11800.0	N/A
4/2016	168.0	<0.05	<0.1	<0.03	<0.02	945.0	13500.0	<0.35	<0.05	367.0	<0.002	N/A	<0.1	8260.0	N/A
10/2016	182.0	0.0146	<0.02	<0.006	<0.016	853.0	13400.0	<0.28	<0.04	N/A	<0.0005	N/A	<0.08	N/A	N/A
4/2017	186.0	<0.05	<0.1	<0.03	<0.02	839.0	11500.0	<0.35	<0.05	354.0	<0.002	N/A	<0.1	8450.0	N/A
10/2017	173.0	<0.05	<0.1	<0.03	<0.02	846.0	12500.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	201.0	<0.05	<0.1	<0.03	<0.02	818.0	9690.0	<0.35	<0.05	343.0	<0.002	N/A	<0.1	8530.0	N/A
10/2018	147.0	<0.05	<0.1	<0.03	<0.02	910.0	15500.0	<0.35	<0.05	326.0	<0.0005	N/A	<0.1	4930.0	N/A
4/2019	N/A	0.0218	0.0116	<0.004	<0.005	768.0	14400.0	<0.01	<0.01	310.0	<0.0002	N/A	<0.01	5800.0	N/A
10/2019	N/A	<0.05	<0.05	<0.02	<0.025	657.0	14900.0	<0.05	<0.05	238.0	<0.0002	N/A	<0.05	9710.0	N/A
4/2020	N/A	0.0325	0.0159	<0.02	<0.005	701.0	10500.0	<0.05	<0.01	308.0	<0.0002	N/A	0.0185	8420.0	45.8

Minimum	118.0000	0.0050	0.0100	0.0015	0.0005	657.0000	9690.0000	0.0050	0.0005	238.0000	0.0000		0.0050	4930.0000	0.0054
Maximum	255.0000	0.1000	0.5000	0.0150	0.0125	1000.0000	21000.0000	0.1750	0.1000	395.0000	0.0010		0.0530	15000.0000	65.5000
Mean	195.4884	0.0242	0.0339	0.0068	0.0051	839.9348	13251.9565	0.0717	0.0138	330.2727	0.0008		0.0325	9589.7674	35.3094
Median	200.0000	0.0230	0.0100	0.0030	0.0020	844.0000	13000.0000	0.0350	0.0050	330.0000	0.0010		0.0365	9300.0000	39.6000
Std. Dev.	27.9961	0.0139	0.0733	0.0055	0.0041	75.1568	2299.4972	0.0667	0.0159	35.2825	0.0004		0.0172	2037.0760	20.2810

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 11 / WMA #1 Well: MW 11A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	54.0	0.31	<0.02	<0.003	<0.001	770.0	6200.0	<0.07	<0.01	210.0	<0.002	N/A	0.22	5500.0	24.8
10/1999	77.6	0.35	<0.02	<0.003	<0.001	667.0	5600.0	<0.07	<0.01	196.0	<0.002	N/A	0.23	5370.0	27.8
4/2000	72.4	0.24	0.02	<0.003	<0.001	696.0	6720.0	<0.07	<0.01	212.0	<0.002	N/A	0.2	5450.0	26.8
10/2000	64.4	0.35	0.028	<0.006	<0.004	693.0	7140.0	<0.07	<0.01	209.0	<0.002	N/A	0.22	5570.0	N/A
4/2001	74.5	0.25	<0.02	<0.006	<0.004	721.0	6360.0	<0.07	<0.01	221.0	<0.002	N/A	0.22	5540.0	N/A
10/2001	80.1	0.2	<0.02	<0.006	<0.004	675.0	6190.0	<0.07	<0.01	209.0	<0.002	N/A	0.24	5420.0	N/A
4/2002	76.2	0.42	0.072	<0.006	<0.004	709.0	6320.0	<0.07	<0.01	194.0	<0.002	N/A	0.23	5480.0	N/A
10/2002	72.0	0.34	<0.02	<0.006	<0.004	690.0	7100.0	<0.07	<0.01	190.0	<0.002	N/A	0.23	5300.0	N/A
4/2003	75.0	0.33	0.023	<0.006	<0.004	730.0	7300.0	<0.07	<0.01	220.0	<0.002	N/A	0.22	5700.0	N/A
10/2003	67.0	0.33	0.02	<0.006	<0.004	670.0	7600.0	<0.07	<0.01	180.0	<0.002	N/A	0.24	5200.0	N/A
4/2004	90.0	0.14	0.032	<0.006	<0.004	670.0	6900.0	<0.07	<0.01	200.0	<0.002	N/A	0.17	4800.0	N/A
10/2004	76.0	0.33	<0.02	<0.006	<0.004	690.0	7100.0	<0.07	<0.01	180.0	<0.002	N/A	0.22	5100.0	25.3
4/2005	100.0	0.32	0.021	<0.006	<0.004	690.0	6600.0	<0.07	<0.01	190.0	<0.002	N/A	0.22	5300.0	15.75
10/2005	140.0	0.16	<0.02	<0.006	<0.004	670.0	6000.0	<0.07	<0.01	230.0	<0.002	N/A	0.19	4600.0	20.8
4/2006	90.0	0.35	0.055	<0.006	<0.004	700.0	7000.0	<0.07	<0.01	200.0	<0.002	N/A	0.22	5900.0	0.0164
10/2006	72.0	0.45	<0.02	<0.0075	<0.004	680.0	7400.0	<0.07	<0.01	190.0	<0.002	N/A	0.26	5400.0	0.0267
4/2007	120.0	0.32	0.029	<0.006	<0.004	670.0	5800.0	<0.07	<0.01	200.0	<0.002	N/A	0.27	4900.0	26.3
10/2007	58.0	0.38	<0.02	<0.006	<0.004	670.0	6600.0	<0.07	<0.01	180.0	<0.002	N/A	0.27	5300.0	N/A
4/2008	97.0	0.35	0.02	<0.006	<0.004	740.0	7100.0	<0.07	<0.01	200.0	<0.002	N/A	0.21	5700.0	0.0021
10/2008	58.5	0.27	<0.2	<0.008	<0.005	725.0	6650.0	<0.01	<0.01	202.0	<0.001	N/A	0.265	4620.0	0.0246
4/2009	89.8	0.331	<0.02	<0.006	<0.004	706.0	5300.0	<0.07	<0.02	193.0	<0.002	N/A	0.227	4900.0	22.0
10/2009	57.7	0.393	<1.0	<0.02	<0.025	786.0	7070.0	<0.05	<0.025	196.0	<0.001	N/A	0.225	4650.0	19.19
4/2010	75.0	0.17	0.04	<0.006	<0.004	650.0	7100.0	<0.01	<0.02	170.0	<0.002	N/A	0.094	5300.0	22.98
10/2010	65.0	0.38	<0.02	<0.006	<0.004	580.0	7100.0	<0.01	<0.01	150.0	<0.002	N/A	0.21	5600.0	19.49
4/2011	78.0	0.36	0.044	<0.006	<0.004	680.0	7900.0	<0.01	<0.01	170.0	<0.002	N/A	0.23	5700.0	N/A
10/2011	130.0	0.089	0.035	<0.006	<0.004	710.0	5900.0	0.01	<0.001	220.0	<0.002	N/A	0.17	4200.0	N/A
4/2012	71.0	0.21	0.019	<0.006	0.0005	670.0	7700.0	<0.01	0.0002	200.0	0.0	N/A	0.19	5400.0	N/A
10/2012	70.2	0.337	<0.1	<0.03	<0.02	727.0	6680.0	<0.35	<0.05	190.0	<0.0005	N/A	0.205	4900.0	20.5
4/2013	88.4	0.122	0.0243	<0.006	<0.008	767.0	7150.0	<0.14	<0.02	226.0	<0.002	N/A	0.162	3350.0	N/A
10/2013	126.0	0.384	<0.02	<0.006	<0.004	685.0	2280.0	<0.07	<0.01	178.0	<0.0005	N/A	0.227	5650.0	21.0
4/2014	116.0	0.143	<0.1	<0.03	<0.02	807.0	6050.0	<0.35	<0.05	223.0	<0.002	N/A	0.134	3820.0	N/A
10/2014	77.6	0.356	<0.1	<0.03	<0.02	825.0	8040.0	<0.35	<0.05	218.0	<0.0005	N/A	0.253	5440.0	N/A
4/2015	109.0	0.156	<0.1	<0.03	<0.02	778.0	6380.0	<0.35	<0.05	209.0	<0.002	N/A	0.168	4460.0	N/A
10/2015	99.7	0.358	<0.1	<0.03	<0.02	772.0	6870.0	<0.35	<0.05	203.0	<0.0005	N/A	0.22	5930.0	N/A
4/2016	80.4	0.392	<0.1	<0.03	<0.02	778.0	7570.0	<0.35	<0.05	200.0	<0.002	N/A	0.207	5720.0	N/A
10/2016	63.5	0.346	<0.1	<0.03	<0.02	807.0	8200.0	<0.35	<0.05	N/A	<0.0005	N/A	0.219	N/A	N/A
4/2017	68.0	0.352	<0.1	<0.03	<0.02	765.0	7020.0	<0.35	<0.05	201.0	<0.002	N/A	0.199	5710.0	N/A
10/2017	64.5	0.368	<0.1	<0.03	<0.02	737.0	7070.0	<0.35	<0.05	N/A	<0.0005	N/A	0.195	N/A	N/A
4/2018	101.0	0.166	<0.1	<0.03	<0.02	759.0	5740.0	<0.35	<0.05	207.0	<0.002	N/A	0.216	5480.0	N/A
10/2018	155.0	0.149	<0.1	<0.03	<0.02	809.0	5600.0	<0.35	<0.05	229.0	<0.0005	N/A	0.166	3890.0	N/A
4/2019	N/A	0.153	0.0549	<0.004	<0.005	846.0	6660.0	0.0151	<0.01	242.0	<0.0002	N/A	0.0658	2770.0	N/A
10/2019	N/A	0.303	<0.2	<0.08	<0.1	800.0	7530.0	<0.2	<0.2	202.0	<0.0002	N/A	<0.2	4880.0	N/A
4/2020	N/A	0.474	0.0467	<0.004	0.0073	614.0	7260.0	<0.01	<0.01	164.0	<0.0002	N/A	0.177	3850.0	23.8

Minimum	54.0000	0.0890	0.0100	0.0015	0.0005	580.0000	2280.0000	0.0050	0.0002	150.0000	0.0000		0.0658	2770.0000	0.0021
Maximum	155.0000	1.2600	0.5000	0.0400	0.0500	846.0000	8200.0000	0.1750	0.1000	865.0000	0.0010		0.2830	5930.0000	27.8000
Mean	85.3780	0.3136	0.0507	0.0072	0.0056	721.0435	6692.0455	0.0716	0.0130	230.3182	0.0008		0.2051	5063.8636	18.0147
Median	77.6000	0.3250	0.0335	0.0030	0.0020	709.5000	6885.0000	0.0350	0.0050	200.0000	0.0010		0.2200	5335.0000	21.0000
Std. Dev.	23.7589	0.2069	0.0771	0.0074	0.0077	56.8432	961.3619	0.0675	0.0160	141.3088	0.0004		0.0458	718.2706	10.0025

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 11 / WMA #1 Well: MW 11A4
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	34.0	<0.01	<0.02	<0.003	0.0016	800.0	14000.0	<0.07	<0.01	160.0	<0.002	N/A	0.055	12000.0	54.1
10/1999	40.0	0.018	<0.02	<0.003	<0.001	827.0	15300.0	<0.07	<0.01	193.0	<0.002	N/A	0.072	13900.0	49.0
4/2000	36.7	0.013	<0.02	0.0036	<0.001	833.0	15500.0	<0.07	<0.01	195.0	<0.002	N/A	0.062	13700.0	53.6
10/2000	38.8	0.014	<0.02	<0.006	<0.004	836.0	21400.0	<0.07	<0.01	201.0	<0.002	N/A	0.082	13000.0	N/A
4/2001	38.3	0.013	<0.02	<0.006	<0.004	873.0	15700.0	<0.07	<0.01	200.0	<0.002	N/A	0.09	14400.0	N/A
10/2001	38.4	0.012	<0.02	<0.006	<0.004	779.0	16000.0	<0.07	<0.01	184.0	<0.002	N/A	0.084	13500.0	N/A
4/2002	39.9	0.022	0.021	<0.006	<0.004	853.0	14800.0	<0.07	<0.01	201.0	<0.002	N/A	0.13	16400.0	N/A
10/2002	40.0	<0.01	<0.02	<0.006	<0.004	860.0	23000.0	<0.07	<0.01	200.0	<0.002	N/A	0.091	15000.0	N/A
4/2003	39.0	0.017	<0.02	<0.006	<0.004	840.0	22000.0	<0.07	<0.01	200.0	<0.002	N/A	0.14	14000.0	N/A
10/2003	39.0	<0.01	<0.02	<0.006	<0.004	780.0	20000.0	<0.07	<0.01	180.0	<0.002	N/A	0.12	14000.0	N/A
4/2004	37.0	0.013	0.021	0.007	<0.004	810.0	21000.0	<0.07	<0.01	180.0	<0.002	N/A	0.1	13000.0	N/A
10/2004	40.0	0.013	<0.02	<0.006	<0.004	790.0	22000.0	<0.07	<0.01	170.0	<0.002	N/A	0.11	13000.0	50.1
4/2005	38.0	0.01	0.021	<0.006	<0.004	790.0	20000.0	<0.07	<0.01	170.0	<0.002	N/A	0.087	13000.0	31.3
10/2005	40.0	0.036	0.025	<0.006	<0.004	740.0	21000.0	<0.07	<0.01	160.0	<0.002	N/A	0.18	13000.0	58.6
4/2006	38.0	0.021	0.021	0.006	<0.004	950.0	19000.0	<0.07	<0.01	200.0	<0.002	N/A	0.12	16000.0	0.0306
10/2006	42.0	0.014	<0.02	<0.0075	<0.004	700.0	18000.0	<0.07	<0.01	180.0	<0.002	N/A	0.11	14000.0	0.034
4/2007	38.0	0.014	0.021	<0.03	<0.0090	780.0	18000.0	<0.07	<0.01	190.0	<0.002	N/A	0.13	13000.0	53.4
10/2007	37.0	0.022	<0.02	<0.006	<0.004	810.0	19000.0	<0.07	<0.01	180.0	<0.002	N/A	0.13	15000.0	N/A
4/2008	44.0	0.012	<0.02	<0.006	<0.004	860.0	20000.0	<0.07	<0.01	190.0	<0.002	N/A	0.11	14000.0	0.0056
10/2008	41.2	<0.02	<0.2	<0.008	<0.005	830.0	18700.0	<0.01	<0.02	179.0	<0.001	N/A	0.149	11400.0	0.0519
4/2009	39.9	<0.02	<0.04	<0.012	<0.008	780.0	16500.0	<0.14	<0.02	167.0	<0.002	N/A	0.111	11800.0	51.02
10/2009	46.9	<0.05	<1.0	<0.02	<0.025	913.0	16800.0	<0.05	<0.025	193.0	<0.001	N/A	0.11	13600.0	50.13
4/2010	46.0	<0.1	<0.05	<0.03	<0.02	780.0	19000.0	<0.05	<0.02	170.0	<0.002	N/A	0.12	15000.0	48.17
10/2010	41.0	<0.1	<0.02	<0.006	<0.004	670.0	18000.0	<0.01	<0.02	190.0	<0.002	N/A	<0.094	4500.0	43.88
4/2011	39.0	<0.047	0.02	<0.006	<0.02	780.0	21000.0	<0.05	<0.01	160.0	<0.002	N/A	0.1	16000.0	N/A
10/2011	40.0	0.0095	<0.04	<0.012	<0.008	840.0	20000.0	<0.02	<0.001	190.0	<0.002	N/A	0.096	14000.0	N/A
4/2012	41.0	0.0083	0.018	<0.006	<0.02	790.0	19000.0	<0.05	<0.001	170.0	0.0	N/A	0.088	14000.0	N/A
10/2012	40.9	<0.05	<0.1	<0.03	<0.02	831.0	15100.0	<0.35	<0.05	182.0	<0.0005	N/A	0.112	12300.0	33.4
4/2013	42.7	<0.01	<0.02	<0.006	<0.016	740.0	21900.0	<0.28	<0.04	150.0	<0.002	N/A	0.0752	11800.0	N/A
10/2013	40.7	0.0155	<0.02	<0.006	<0.004	767.0	15800.0	<0.07	<0.01	167.0	<0.0005	N/A	0.109	14000.0	48.5
4/2014	43.4	<0.05	<0.1	<0.03	<0.02	926.0	14500.0	<0.35	<0.05	193.0	<0.002	N/A	0.125	12300.0	N/A
10/2014	43.7	<0.05	<0.1	<0.03	<0.02	860.0	18500.0	<0.35	<0.05	186.0	<0.0005	N/A	0.134	14300.0	N/A
4/2015	40.3	<0.05	<0.1	<0.03	<0.02	891.0	15700.0	<0.35	<0.05	188.0	<0.002	N/A	0.104	15300.0	N/A
10/2015	144.0	<0.05	<0.1	<0.03	<0.02	910.0	16700.0	<0.35	<0.05	196.0	<0.0005	N/A	0.114	14100.0	N/A
4/2016	40.1	<0.05	<0.1	<0.03	<0.02	843.0	18400.0	<0.35	<0.05	183.0	<0.002	N/A	0.108	13400.0	N/A
10/2016	35.4	<0.05	<0.1	<0.03	<0.02	904.0	20800.0	<0.35	<0.05	N/A	<0.0005	N/A	0.119	N/A	N/A
4/2017	36.5	<0.05	<0.1	<0.03	<0.02	805.0	16400.0	<0.35	<0.05	171.0	<0.002	N/A	0.111	13800.0	N/A
10/2017	37.0	<0.05	<0.1	<0.03	<0.02	911.0	17500.0	<0.35	<0.05	N/A	<0.0005	N/A	0.108	N/A	N/A
4/2018	38.5	<0.05	<0.1	<0.03	<0.02	753.0	13500.0	<0.35	<0.05	168.0	<0.002	N/A	0.125	11600.0	N/A
10/2018	38.5	<0.05	<0.1	<0.03	<0.02	908.0	22100.0	<0.35	<0.05	196.0	<0.0005	N/A	0.103	9420.0	N/A
4/2019	N/A	<0.05	0.0242	<0.004	<0.025	959.0	30200.0	<0.01	<0.05	232.0	<0.0002	N/A	0.0668	14600.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1150.0	39800.0	<0.2	<0.2	260.0	<0.0002	N/A	<0.2	23000.0	N/A
4/2020	N/A	<0.05	<0.05	<0.02	<0.025	898.0	30600.0	<0.05	<0.05	223.0	<0.0002	N/A	0.0665	15100.0	63.8
Minimum	34.0000	0.0050	0.0100	0.0015	0.0005	670.0000	13500.0000	0.0008	0.0005	150.0000	0.0000		0.0470	4500.0000	0.0056
Maximum	144.0000	0.1000	0.5000	0.0400	0.0500	1150.0000	39800.0000	0.1750	0.1000	260.0000	0.0010		0.1800	23000.0000	63.8000
Mean	42.3700	0.0209	0.0388	0.0079	0.0066	832.9545	19353.4884	0.0701	0.0137	185.6667	0.0008		0.1075	13624.2857	38.2846
Median	39.9500	0.0195	0.0210	0.0036	0.0033	830.5000	18700.0000	0.0350	0.0050	185.0000	0.0010		0.1100	13850.0000	48.7500
Std. Dev.	16.6918	0.0159	0.0746	0.0073	0.0079	82.8636	4802.4968	0.0652	0.0162	20.8498	0.0004		0.0249	2451.8168	22.3520

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 11 / WMA #1 Well: MW 11A5
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	200.0	0.036	<0.02	<0.003	<0.001	870.0	14000.0	<0.07	<0.01	310.0	<0.002	N/A	<0.02	6800.0	31.1
10/1999	197.0	0.041	<0.02	<0.003	<0.001	788.0	8830.0	<0.07	<0.01	318.0	<0.002	N/A	0.034	7160.0	31.5
4/2000	193.0	0.038	<0.02	<0.003	<0.001	860.0	9170.0	<0.07	<0.01	354.0	<0.002	N/A	0.025	6570.0	32.4
10/2000	136.0	0.046	<0.02	<0.006	<0.004	821.0	10800.0	<0.07	<0.01	355.0	<0.002	N/A	0.057	6510.0	N/A
4/2001	201.0	0.032	<0.02	<0.006	<0.004	832.0	8530.0	<0.07	<0.01	341.0	<0.002	N/A	0.034	6780.0	N/A
10/2001	198.0	0.034	<0.02	<0.006	<0.004	886.0	9330.0	<0.07	<0.01	388.0	<0.002	N/A	0.023	6430.0	N/A
4/2002	190.0	0.031	0.022	<0.006	<0.004	842.0	9070.0	<0.07	<0.01	323.0	<0.002	N/A	0.051	7140.0	N/A
10/2002	140.0	0.025	<0.02	<0.006	<0.004	800.0	11000.0	<0.07	<0.01	290.0	<0.002	N/A	0.051	7500.0	N/A
4/2003	160.0	0.024	<0.02	<0.006	<0.004	820.0	9900.0	<0.07	<0.01	300.0	<0.002	N/A	0.053	7900.0	N/A
10/2003	180.0	0.033	<0.02	<0.006	<0.004	860.0	9200.0	<0.07	<0.01	350.0	<0.002	N/A	0.039	6600.0	N/A
4/2004	160.0	0.032	0.15	<0.006	<0.004	800.0	9600.0	<0.07	<0.01	290.0	<0.002	N/A	0.055	7800.0	N/A
10/2004	160.0	0.026	<0.02	<0.006	<0.004	790.0	9900.0	<0.07	<0.01	290.0	<0.002	N/A	0.043	6700.0	30.9
4/2005	180.0	0.035	<0.02	<0.006	<0.004	860.0	11000.0	<0.07	<0.01	350.0	<0.002	N/A	0.035	6800.0	31.4
10/2005	160.0	0.035	<0.02	<0.006	<0.004	790.0	9700.0	<0.07	<0.01	340.0	<0.002	N/A	0.044	5900.0	33.3
4/2006	150.0	0.031	<0.02	<0.006	<0.004	780.0	9600.0	<0.07	<0.01	280.0	<0.002	N/A	0.062	7800.0	0.0212
10/2006	150.0	0.036	<0.02	<0.0075	<0.004	790.0	9700.0	<0.07	<0.01	350.0	<0.002	N/A	0.054	6400.0	0.0324
4/2007	160.0	0.029	<0.02	<0.006	<0.004	720.0	8500.0	<0.07	<0.01	290.0	<0.002	N/A	0.065	6600.0	32.2
10/2007	160.0	0.038	<0.02	<0.006	<0.004	790.0	11000.0	<0.07	<0.01	280.0	<0.002	N/A	0.063	7200.0	N/A
4/2008	130.0	0.034	<0.02	<0.006	<0.004	760.0	9800.0	<0.07	<0.01	330.0	<0.002	N/A	0.031	5900.0	0.0033
10/2008	109.0	0.0417	<0.2	<0.008	<0.005	822.0	8870.0	<0.01	<0.02	330.0	<0.001	N/A	0.0818	5620.0	0.032
4/2009	151.0	0.0385	<0.02	<0.006	<0.004	775.0	9140.0	<0.07	<0.02	298.0	<0.002	N/A	0.0462	5670.0	30.32
10/2009	45.2	0.0609	<1.0	<0.02	<0.025	872.0	9170.0	<0.05	<0.025	326.0	<0.001	N/A	0.0617	5650.0	29.7
4/2010	140.0	<0.1	0.016	<0.006	<0.004	720.0	10000.0	<0.01	<0.02	270.0	<0.002	N/A	<0.094	6500.0	30.87
10/2010	120.0	<0.1	<0.02	<0.006	<0.004	650.0	12000.0	<0.01	<0.02	230.0	<0.002	N/A	<0.094	5500.0	25.84
4/2011	120.0	<0.047	0.022	<0.006	<0.004	730.0	10000.0	<0.01	<0.01	230.0	<0.002	N/A	0.055	7700.0	N/A
10/2011	120.0	0.023	<0.02	<0.006	<0.004	800.0	9600.0	<0.01	<0.001	270.0	<0.002	N/A	0.044	7400.0	N/A
4/2012	180.0	0.021	0.016	<0.006	0.0013	760.0	9600.0	0.0019	<0.005	250.0	0.0001	N/A	0.039	7400.0	N/A
10/2012	170.0	<0.05	<0.1	<0.03	<0.02	924.0	8840.0	<0.35	<0.05	358.0	<0.0005	N/A	<0.1	5510.0	21.8
4/2013	137.0	0.0453	<0.02	<0.006	<0.016	971.0	11700.0	<0.28	<0.04	352.0	<0.002	N/A	0.0344	6360.0	N/A
10/2013	144.0	0.0337	<0.02	<0.006	<0.004	696.0	9840.0	<0.07	<0.01	258.0	<0.0005	N/A	0.0446	6450.0	29.6
4/2014	191.0	<0.05	<0.1	<0.03	<0.02	829.0	9120.0	<0.35	<0.05	327.0	<0.002	N/A	<0.1	5960.0	N/A
10/2014	161.0	<0.05	<0.1	<0.03	<0.02	800.0	9100.0	<0.35	<0.05	294.0	<0.0005	N/A	<0.1	6850.0	N/A
4/2015	151.0	<0.05	<0.1	<0.03	<0.02	880.0	8880.0	<0.35	<0.05	301.0	<0.002	N/A	<0.1	7520.0	N/A
10/2015	151.0	<0.05	<0.1	<0.03	<0.02	830.0	9140.0	<0.35	<0.05	300.0	<0.0005	N/A	<0.1	6910.0	N/A
4/2016	135.0	<0.05	<0.1	<0.03	<0.02	931.0	9400.0	<0.35	<0.05	336.0	<0.002	N/A	<0.1	7030.0	N/A
10/2016	149.0	<0.05	<0.1	<0.03	<0.02	893.0	9030.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	155.0	<0.05	<0.1	<0.03	<0.02	854.0	8620.0	<0.35	<0.05	326.0	<0.002	N/A	<0.1	6360.0	N/A
10/2017	128.0	<0.05	<0.1	<0.03	<0.02	861.0	9200.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	170.0	<0.05	<0.1	<0.03	<0.02	972.0	8270.0	<0.35	<0.05	375.0	<0.002	N/A	<0.1	6240.0	N/A
10/2018	120.0	<0.05	<0.1	<0.03	<0.02	887.0	10500.0	<0.35	<0.05	315.0	<0.0005	N/A	<0.1	5740.0	N/A
4/2019	N/A	0.045	0.02	<0.004	<0.005	867.0	12600.0	<0.01	<0.01	392.0	<0.0002	N/A	0.0439	5370.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	926.0	10700.0	<0.2	<0.2	348.0	<0.0002	N/A	<0.2	6740.0	N/A
4/2020	N/A	0.025	0.0176	<0.004	<0.005	609.0	10700.0	<0.01	<0.01	216.0	<0.0002	N/A	0.0542	4560.0	26.5

Minimum	45.2000	0.0190	0.0100	0.0015	0.0005	609.0000	8270.0000	0.0007	0.0005	216.0000	0.0001		0.0100	4560.0000	0.0033
Maximum	201.0000	0.1000	0.5000	0.0400	0.0500	972.0000	14000.0000	0.1750	0.1000	392.0000	0.0010		0.1000	7900.0000	33.3000
Mean	155.5048	0.0336	0.0393	0.0070	0.0054	820.9348	9844.8889	0.0690	0.0130	312.9318	0.0008		0.0485	6565.0000	23.1955
Median	157.5000	0.0310	0.0120	0.0030	0.0020	821.5000	9600.0000	0.0350	0.0050	316.5000	0.0010		0.0500	6585.0000	30.0100
Std. Dev.	30.7691	0.0133	0.0754	0.0073	0.0077	75.7110	1154.3389	0.0677	0.0159	41.0583	0.0004		0.0139	741.9475	13.0313

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 12 / WMA #8 Well: MW 12A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	27.0	0.01	0.023	<0.003	<0.001	690.0	8200.0	<0.07	0.011	190.0	<0.002	N/A	0.028	7100.0	26.3
10/1999	34.4	0.023	0.031	<0.003	<0.001	744.0	6250.0	<0.07	<0.01	238.0	<0.002	N/A	0.067	8990.0	37.7
4/2000	54.4	0.019	0.061	<0.003	<0.001	697.0	8270.0	<0.07	<0.01	209.0	<0.002	N/A	0.049	8040.0	31.4
10/2000	61.4	0.018	0.041	<0.006	<0.004	699.0	9850.0	<0.07	<0.01	232.0	<0.002	N/A	0.069	8730.0	N/A
4/2001	49.0	0.017	0.079	<0.006	<0.004	656.0	3900.0	<0.07	<0.01	189.0	<0.002	N/A	0.059	6290.0	N/A
10/2001	54.5	0.013	0.035	<0.006	<0.004	777.0	9890.0	<0.07	<0.01	186.0	<0.002	N/A	0.066	7550.0	N/A
4/2002	35.4	<0.01	0.039	<0.006	<0.004	679.0	5270.0	<0.07	<0.01	94.2	<0.002	N/A	0.047	4400.0	N/A
10/2002	70.0	0.011	0.022	<0.006	<0.004	710.0	11000.0	<0.07	<0.01	210.0	<0.002	N/A	0.081	8300.0	N/A
4/2003	47.0	0.01	0.039	<0.006	<0.004	750.0	8600.0	<0.07	<0.01	140.0	<0.002	N/A	0.066	6000.0	N/A
10/2003	56.0	0.013	0.022	<0.006	<0.004	690.0	10000.0	<0.07	<0.01	230.0	<0.002	N/A	0.08	9200.0	N/A
4/2004	34.0	0.023	<0.02	<0.006	<0.004	660.0	6400.0	<0.07	<0.01	210.0	<0.002	N/A	0.078	9000.0	N/A
10/2004	42.0	<0.01	0.033	<0.006	<0.004	720.0	10000.0	<0.07	<0.01	170.0	<0.002	N/A	0.054	7400.0	24.0
4/2005	59.0	<0.01	0.033	<0.006	<0.004	710.0	8900.0	<0.07	<0.01	180.0	<0.002	N/A	0.064	6900.0	36.5
10/2005	50.0	<0.01	0.039	<0.006	<0.004	660.0	9600.0	<0.07	<0.01	130.0	<0.002	N/A	0.05	5600.0	20.3
4/2006	41.0	0.014	0.05	<0.006	<0.004	660.0	8400.0	<0.07	<0.01	110.0	<0.002	N/A	0.047	4800.0	0.0159
10/2006	69.0	<0.01	<0.02	<0.0075	<0.004	630.0	11000.0	<0.07	<0.01	240.0	<0.002	N/A	0.079	10000.0	0.0371
4/2007	40.0	0.015	<0.02	<0.006	<0.004	650.0	6400.0	<0.07	<0.01	220.0	<0.002	N/A	0.086	8000.0	31.3
10/2007	60.0	0.018	<0.02	<0.006	<0.004	650.0	12000.0	<0.07	<0.01	200.0	<0.002	N/A	0.091	8800.0	N/A
4/2008	69.0	<0.01	0.021	<0.006	<0.004	630.0	12000.0	<0.07	<0.01	210.0	<0.002	N/A	0.078	8400.0	0.0039
10/2008	46.0	<0.5	<10.0	<0.2	<0.25	823.0	9990.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	6140.0	0.0333
4/2009	79.4	<0.02	<0.02	<0.006	<0.004	651.0	10000.0	<0.07	<0.02	211.0	<0.002	N/A	0.0794	7020.0	36.81
10/2009	79.0	<0.05	<1.0	<0.02	<0.025	710.0	10200.0	<0.05	<0.025	229.0	<0.001	N/A	0.0724	6970.0	35.75
4/2010	46.0	<0.1	0.012	<0.006	<0.004	620.0	10000.0	<0.01	<0.02	200.0	<0.002	N/A	<0.094	8600.0	35.22
10/2010	75.0	<0.1	<0.02	<0.006	<0.004	590.0	12000.0	<0.01	<0.02	190.0	<0.002	N/A	<0.094	8900.0	30.62
4/2011	71.0	<0.047	<0.02	<0.006	<0.004	650.0	12000.0	<0.01	<0.01	200.0	<0.002	N/A	0.082	9200.0	N/A
10/2011	77.0	<0.0094	<0.02	<0.006	<0.004	730.0	11000.0	<0.01	<0.001	210.0	<0.002	N/A	0.057	8800.0	N/A
4/2012	74.0	0.0076	0.013	<0.006	0.0014	690.0	10000.0	0.0013	<0.005	230.0	0.0001	N/A	0.065	8600.0	N/A
10/2012	42.8	<0.05	<0.1	<0.03	<0.02	677.0	10000.0	<0.35	<0.05	219.0	<0.0005	N/A	0.101	7930.0	30.9
4/2013	78.0	<0.01	0.0303	<0.006	<0.016	1070.0	10500.0	<0.28	<0.04	197.0	<0.002	N/A	0.0598	6290.0	N/A
10/2013	40.2	0.0122	<0.02	<0.006	<0.004	679.0	11000.0	<0.07	<0.01	197.0	<0.0005	N/A	0.0631	8160.0	35.7
4/2014	52.8	<0.05	<0.1	<0.03	<0.02	946.0	9920.0	<0.35	<0.05	241.0	<0.002	N/A	<0.1	6750.0	N/A
10/2014	70.8	<0.05	<0.1	<0.03	<0.02	693.0	11500.0	<0.35	<0.05	223.0	<0.0005	N/A	<0.1	8820.0	N/A
4/2015	71.1	<0.05	<0.1	<0.03	<0.02	798.0	13900.0	<0.35	<0.05	251.0	<0.002	N/A	<0.1	8780.0	N/A
10/2015	66.8	<0.05	<0.1	<0.03	<0.02	808.0	11100.0	<0.35	<0.05	238.0	<0.0005	N/A	<0.1	8510.0	N/A
4/2016	69.1	<0.05	<0.1	<0.03	<0.02	765.0	9480.0	<0.35	<0.05	249.0	<0.002	N/A	<0.1	8440.0	N/A
10/2016	66.5	<0.05	<0.1	<0.03	<0.02	761.0	11500.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	78.5	<0.05	<0.1	<0.03	<0.02	713.0	10500.0	<0.35	<0.05	237.0	<0.002	N/A	<0.1	8350.0	N/A
10/2017	64.0	<0.05	<0.1	<0.03	<0.02	754.0	10800.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	74.5	<0.05	<0.1	<0.03	<0.02	732.0	9010.0	<0.35	<0.05	248.0	<0.002	N/A	<0.1	9230.0	N/A
10/2018	44.0	<0.05	<0.1	<0.03	<0.02	915.0	9850.0	<0.35	<0.05	285.0	<0.0005	N/A	<0.1	3870.0	N/A
4/2019	N/A	0.0232	0.0243	<0.004	<0.005	884.0	14600.0	<0.01	<0.01	319.0	<0.0002	N/A	0.0388	5670.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	960.0	13200.0	<0.2	<0.2	310.0	<0.0002	N/A	<0.2	8090.0	N/A
4/2020	N/A	0.028	0.0729	<0.004	<0.005	661.0	12600.0	0.01	<0.01	234.0	<0.0002	N/A	0.0842	8030.0	33.8

Minimum	27.0000	0.0047	0.0100	0.0015	0.0005	590.0000	3900.0000	0.0013	0.0005	94.2000	0.0001		0.0280	3870.0000	0.0039
Maximum	79.4000	0.2500	5.0000	0.1000	0.1250	1070.0000	14600.0000	0.2500	0.1250	319.0000	0.0010		0.2500	10000.0000	37.7000
Mean	58.9791	0.0256	0.1533	0.0091	0.0081	727.2609	10027.8261	0.0745	0.0158	206.0955	0.0008		0.0654	7626.3636	24.9468
Median	61.4000	0.0210	0.0370	0.0030	0.0020	704.5000	10000.0000	0.0350	0.0050	210.0000	0.0010		0.0570	8065.0000	30.9000
Std. Dev.	15.0667	0.0376	0.7340	0.0155	0.0192	98.0772	2122.2461	0.0718	0.0228	48.8545	0.0004		0.0314	1449.9833	13.9821

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 12 / WMA #8 Well: MW 12B1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	100.0	0.017	<0.02	<0.003	0.0011	790.0	11000.0	<0.07	<0.01	200.0	<0.002	N/A	<0.02	13000.0	56.8
10/1999	95.6	0.011	0.029	<0.003	<0.001	749.0	11400.0	<0.07	<0.01	208.0	<0.002	N/A	<0.02	13400.0	58.9
4/2000	56.3	0.019	0.034	0.0084	0.0031	868.0	16300.0	<0.07	<0.01	237.0	<0.002	N/A	<0.02	15300.0	56.7
10/2000	35.3	0.016	0.031	<0.006	<0.004	801.0	18200.0	<0.07	<0.01	224.0	<0.002	N/A	<0.02	14100.0	N/A
4/2001	67.7	<0.01	0.05	<0.006	<0.004	892.0	14300.0	<0.07	<0.01	240.0	<0.002	N/A	<0.02	16000.0	N/A
10/2001	62.2	0.016	0.02	<0.006	<0.004	723.0	13600.0	<0.07	<0.01	245.0	<0.002	N/A	<0.02	12000.0	N/A
4/2002	72.0	0.02	0.065	<0.006	<0.004	806.0	12000.0	<0.07	<0.01	223.0	<0.002	N/A	0.047	17200.0	N/A
10/2002	40.0	0.013	0.032	<0.006	<0.004	840.0	21000.0	<0.07	<0.01	230.0	<0.002	N/A	0.022	15000.0	N/A
4/2003	40.0	0.021	0.062	<0.006	<0.004	830.0	22000.0	<0.07	<0.01	230.0	<0.002	N/A	0.041	14000.0	N/A
10/2003	41.0	0.014	0.033	<0.006	<0.004	780.0	18000.0	<0.07	<0.01	210.0	<0.002	N/A	0.03	14000.0	N/A
4/2004	53.0	0.052	0.31	<0.006	<0.004	780.0	12000.0	<0.07	0.026	230.0	<0.002	N/A	0.028	15000.0	N/A
10/2004	40.0	0.01	0.079	<0.006	<0.004	820.0	20000.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	14000.0	52.7
4/2005	38.0	<0.01	0.034	<0.006	<0.004	800.0	20000.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	14000.0	52.8
10/2005	44.0	0.013	0.03	<0.006	<0.004	730.0	15000.0	<0.07	<0.01	190.0	<0.002	N/A	0.023	14000.0	60.3
4/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0344
10/2006	47.0	0.016	0.033	<0.015	0.0047	750.0	17000.0	<0.07	<0.01	240.0	<0.002	N/A	0.027	16000.0	0.0583
4/2007	54.0	0.02	0.032	<0.03	<0.0090	820.0	15000.0	<0.07	<0.01	220.0	<0.002	N/A	0.049	14000.0	60.8
10/2007	38.0	0.019	0.033	<0.006	<0.004	970.0	23000.0	<0.07	<0.01	270.0	<0.002	N/A	0.037	15000.0	N/A
4/2008	46.0	<0.01	0.038	<0.006	<0.004	740.0	18000.0	<0.07	<0.01	210.0	<0.002	N/A	0.01	15000.0	0.0054
10/2008	32.2	<0.5	<10.0	<0.2	<0.25	856.0	19100.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	14500.0	0.0589
4/2009	46.1	<0.02	<0.04	<0.012	<0.008	773.0	17000.0	<0.14	<0.02	204.0	<0.002	N/A	<0.04	12400.0	54.16
10/2009	44.4	<0.05	<1.0	<0.02	<0.025	853.0	17900.0	<0.05	<0.025	220.0	<0.001	N/A	<0.05	12600.0	2.42
4/2010	44.0	<0.1	<0.05	<0.03	<0.02	790.0	18000.0	<0.05	<0.02	200.0	<0.002	N/A	<0.094	15000.0	54.18
10/2010	47.0	<0.1	0.021	<0.006	<0.004	620.0	20000.0	<0.01	<0.02	200.0	<0.002	N/A	<0.094	13000.0	48.23
4/2011	62.0	<0.047	0.03	<0.006	<0.004	700.0	16000.0	<0.01	<0.01	190.0	<0.002	N/A	<0.05	14000.0	N/A
10/2011	48.0	<0.0094	0.026	<0.006	<0.004	770.0	18000.0	<0.01	<0.001	200.0	<0.002	N/A	0.011	14000.0	N/A
4/2012	51.0	0.0074	0.03	<0.006	0.0026	800.0	17000.0	0.0036	<0.005	200.0	0.0001	N/A	0.0051	16000.0	N/A
10/2012	42.3	<0.05	<0.1	<0.03	<0.02	671.0	14300.0	<0.35	<0.05	237.0	<0.0005	N/A	<0.1	13400.0	43.2
4/2013	42.0	0.0168	<0.02	<0.006	<0.008	636.0	22000.0	<0.14	<0.02	255.0	<0.002	N/A	<0.02	7230.0	N/A
10/2013	40.3	0.0136	0.023	<0.006	<0.004	745.0	19700.0	<0.07	<0.01	205.0	<0.0005	N/A	<0.02	14100.0	54.9
4/2014	51.9	<0.05	<0.1	<0.03	<0.02	608.0	19500.0	<0.35	<0.05	259.0	<0.002	N/A	<0.1	6510.0	N/A
10/2014	47.0	<0.05	<0.1	<0.03	<0.02	767.0	18700.0	<0.35	<0.05	206.0	<0.0005	N/A	<0.1	14000.0	N/A
4/2015	57.1	<0.05	<0.1	<0.03	<0.02	926.0	17400.0	<0.35	<0.05	239.0	<0.002	N/A	<0.1	14800.0	N/A
10/2015	56.2	<0.05	<0.1	<0.03	<0.02	861.0	19200.0	<0.35	<0.05	230.0	<0.0005	N/A	<0.1	14400.0	N/A
4/2016	49.3	<0.05	<0.1	<0.03	<0.02	880.0	18200.0	<0.35	<0.05	236.0	<0.002	N/A	<0.1	14700.0	N/A
10/2016	52.6	<0.05	<0.1	<0.03	<0.02	777.0	17700.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	54.5	<0.05	<0.1	<0.03	<0.02	819.0	16600.0	<0.35	<0.05	222.0	<0.002	N/A	<0.1	14300.0	N/A
10/2017	64.5	<0.05	<0.1	<0.03	<0.02	605.0	12800.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	60.5	<0.05	<0.1	<0.03	<0.02	497.0	5590.0	<0.35	<0.05	164.0	<0.002	N/A	<0.1	5290.0	N/A
10/2018	92.1	<0.05	<0.1	<0.03	<0.02	702.0	9820.0	<0.35	<0.05	268.0	<0.0005	N/A	<0.1	4380.0	N/A
4/2019	N/A	0.0326	0.0388	<0.004	<0.005	654.0	14100.0	<0.01	<0.01	321.0	<0.0002	N/A	0.0682	5930.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	755.0	9200.0	<0.2	<0.2	148.0	<0.0002	N/A	<0.2	6440.0	N/A
4/2020	N/A	0.0124	0.0383	<0.004	<0.005	564.0	8980.0	0.0123	<0.01	88.5	<0.0002	N/A	0.0203	3550.0	23.6

Minimum	32.2000	0.0047	0.0100	0.0015	0.0005	497.0000	5590.0000	0.0036	0.0005	88.5000	0.0001		0.0051	3550.0000	0.0054
Maximum	100.0000	0.2500	5.0000	0.1000	0.1250	970.0000	23000.0000	0.2500	0.1250	321.0000	0.0010		0.2500	17200.0000	60.8000
Mean	53.0800	0.0276	0.1692	0.0104	0.0089	766.3488	16376.5116	0.0777	0.0165	216.1585	0.0008		0.0380	12689.0244	37.6393
Median	48.6500	0.0200	0.0382	0.0030	0.0026	780.0000	17400.0000	0.0350	0.0050	220.0000	0.0010		0.0300	14000.0000	52.7000
Std. Dev.	15.5918	0.0383	0.7496	0.0159	0.0197	97.3748	3901.0535	0.0716	0.0235	38.6837	0.0004		0.0390	3539.2653	24.4661

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 12 / WMA #8 Well: MW 12B2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	66.0	<0.01	0.03	<0.003	0.001	870.0	13000.0	<0.07	<0.01	180.0	<0.002	N/A	<0.02	15000.0	54.3
10/1999	84.0	<0.01	0.035	<0.003	<0.001	861.0	10300.0	<0.07	<0.01	221.0	<0.002	N/A	<0.02	15600.0	54.0
4/2000	73.1	0.014	0.033	0.0066	<0.001	856.0	12300.0	<0.07	<0.01	219.0	<0.002	N/A	<0.02	15500.0	60.3
10/2000	33.4	0.012	0.032	<0.006	<0.004	813.0	20000.0	<0.07	<0.01	209.0	<0.002	N/A	0.023	14800.0	N/A
4/2001	70.3	<0.01	0.037	<0.006	<0.004	914.0	13300.0	<0.07	<0.01	227.0	<0.002	N/A	0.026	16500.0	N/A
10/2001	65.1	0.018	0.045	<0.006	<0.004	751.0	13500.0	<0.07	<0.01	256.0	<0.002	N/A	0.072	12500.0	N/A
4/2002	39.2	0.017	0.036	<0.006	<0.004	878.0	15500.0	<0.07	<0.01	227.0	<0.002	N/A	0.055	18700.0	N/A
10/2002	45.0	0.022	0.026	<0.006	<0.004	760.0	17000.0	<0.07	<0.01	200.0	<0.002	N/A	0.073	13000.0	N/A
4/2003	38.0	0.031	0.073	<0.006	<0.004	850.0	23000.0	<0.07	<0.01	220.0	<0.002	N/A	0.059	15000.0	N/A
10/2003	37.0	0.026	0.046	<0.006	<0.004	780.0	23000.0	<0.07	<0.01	200.0	<0.002	N/A	0.047	15000.0	N/A
4/2004	36.0	0.031	0.076	<0.006	<0.004	760.0	17000.0	<0.07	<0.01	190.0	<0.002	N/A	0.047	15000.0	N/A
10/2004	34.0	0.012	0.058	<0.006	<0.004	880.0	24000.0	<0.07	<0.01	210.0	<0.002	N/A	0.033	16000.0	53.2
4/2005	38.0	0.033	0.042	<0.006	<0.004	810.0	23000.0	<0.07	<0.01	200.0	<0.002	N/A	0.052	15000.0	51.6
10/2005	41.0	0.03	0.035	<0.006	<0.004	720.0	23000.0	<0.07	<0.01	180.0	<0.002	N/A	0.056	15000.0	59.3
4/2006	36.0	0.024	0.045	<0.006	<0.004	920.0	20000.0	<0.07	<0.01	200.0	<0.002	N/A	0.083	17000.0	0.0361
10/2006	37.0	0.019	0.038	<0.015	<0.0045	750.0	21000.0	<0.07	<0.01	210.0	<0.002	N/A	0.049	16000.0	0.0589
4/2007	46.0	0.025	0.04	<0.03	<0.0090	900.0	16000.0	<0.07	<0.01	230.0	<0.002	N/A	0.036	16000.0	15.5
10/2007	35.0	0.013	0.039	<0.006	<0.004	820.0	24000.0	<0.07	<0.01	200.0	<0.002	N/A	0.03	16000.0	N/A
4/2008	38.0	0.023	0.037	<0.006	<0.004	710.0	22000.0	<0.07	<0.01	170.0	<0.002	N/A	0.041	14000.0	0.0061
10/2008	38.3	<0.5	<10.0	<0.2	<0.25	887.0	22500.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	15400.0	0.0357
4/2009	38.4	0.0272	<0.04	<0.012	<0.008	747.0	22800.0	<0.14	<0.02	181.0	<0.002	N/A	0.0561	12200.0	55.3
10/2009	39.7	<0.05	<1.0	<0.02	<0.025	917.0	22100.0	<0.05	<0.025	215.0	<0.001	N/A	<0.05	13400.0	2.08
4/2010	39.0	<0.1	<0.05	<0.03	<0.02	850.0	19000.0	<0.05	<0.02	220.0	<0.002	N/A	<0.094	15000.0	51.49
10/2010	39.0	<0.1	0.027	<0.006	<0.004	580.0	21000.0	<0.01	<0.02	140.0	<0.002	N/A	<0.094	10000.0	47.32
4/2011	41.0	<0.047	0.11	<0.006	<0.02	730.0	22000.0	<0.05	<0.01	160.0	<0.002	N/A	<0.05	16000.0	N/A
10/2011	43.0	0.011	<0.04	<0.012	<0.008	870.0	19000.0	<0.02	<0.001	230.0	<0.002	N/A	0.034	17000.0	N/A
4/2012	41.0	0.023	0.028	<0.006	0.0012	710.0	22000.0	0.0011	<0.005	180.0	0.0001	N/A	0.047	14000.0	N/A
4/2013	40.4	<0.01	0.0366	<0.006	<0.016	966.0	25300.0	<0.28	<0.04	211.0	<0.002	N/A	0.0244	17700.0	N/A
10/2013	38.3	<0.05	<0.1	<0.03	<0.02	828.0	20500.0	<0.35	<0.05	205.0	<0.0005	N/A	<0.1	15300.0	59.6
4/2014	104.0	<0.05	<0.1	<0.03	<0.02	783.0	11900.0	<0.35	<0.05	213.0	<0.002	N/A	<0.1	12600.0	N/A
10/2014	42.3	<0.05	<0.1	<0.03	<0.02	893.0	20100.0	<0.35	<0.05	222.0	<0.0005	N/A	<0.1	17400.0	N/A
4/2015	38.9	<0.05	<0.1	<0.03	<0.02	874.0	24000.0	<0.35	<0.05	208.0	<0.002	N/A	<0.1	14400.0	N/A
10/2015	67.1	<0.05	<0.1	<0.03	<0.02	812.0	19200.0	<0.35	<0.05	194.0	<0.0005	N/A	<0.1	14400.0	N/A
4/2016	44.8	<0.05	<0.1	<0.03	<0.02	818.0	17400.0	<0.35	<0.05	221.0	<0.0005	N/A	<0.1	13200.0	N/A
10/2016	37.8	<0.05	<0.1	<0.03	<0.02	938.0	24200.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	37.5	<0.05	<0.1	<0.03	<0.02	846.0	20000.0	<0.35	<0.05	212.0	<0.002	N/A	<0.1	15900.0	N/A
10/2017	40.0	<0.05	<0.1	<0.03	<0.02	886.0	19800.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	57.0	<0.05	<0.1	<0.03	<0.02	812.0	14300.0	<0.35	<0.05	223.0	<0.002	N/A	<0.1	13100.0	N/A
10/2018	42.5	<0.05	<0.1	<0.03	<0.02	810.0	20400.0	<0.35	<0.05	227.0	<0.0005	N/A	<0.1	4830.0	N/A
4/2019	N/A	0.0225	0.0373	<0.004	<0.005	717.0	22800.0	<0.01	<0.01	264.0	<0.0002	N/A	0.097	11400.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	790.0	15000.0	<0.2	<0.2	372.0	<0.0002	N/A	<0.2	9690.0	N/A
4/2020	N/A	<0.05	0.0585	<0.02	<0.025	849.0	23000.0	<0.05	<0.05	216.0	<0.0002	N/A	<0.05	9180.0	51.4

Minimum	33.4000	0.0050	0.0200	0.0015	0.0005	580.0000	10300.0000	0.0011	0.0005	125.0000	0.0001		0.0100	4830.0000	0.0061
Maximum	104.0000	0.2500	5.0000	0.1000	0.1250	966.0000	25300.0000	0.2500	0.1250	372.0000	0.0010		0.2500	18700.0000	60.3000
Mean	45.9333	0.0287	0.1654	0.0105	0.0090	823.3556	19562.2222	0.0781	0.0162	210.0233	0.0008		0.0506	14406.9767	36.2075
Median	40.0000	0.0250	0.0450	0.0060	0.0040	828.0000	20400.0000	0.0350	0.0050	211.0000	0.0010		0.0500	15000.0000	51.4900
Std. Dev.	14.9959	0.0370	0.7404	0.0155	0.0193	75.1006	3932.3419	0.0704	0.0230	36.2054	0.0004		0.0361	2531.0233	25.7517

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 13 / WMA #6 Well: MW 13A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	N/A	0.8	0.025	<0.003	<0.001	700.0	N/A	<0.07	<0.01	91.0	<0.002	N/A	0.24	7400.0	40.7
10/1999	151.0	0.51	0.046	0.0033	<0.001	650.0	7950.0	<0.07	<0.01	91.8	<0.002	N/A	0.17	6640.0	23.6
4/2000	27.3	0.48	0.2	0.0032	<0.001	595.0	6720.0	<0.07	<0.01	87.1	<0.002	N/A	0.12	5210.0	25.6
4/2001	27.9	0.37	0.11	<0.006	<0.004	589.0	9260.0	<0.07	<0.01	64.9	<0.002	N/A	0.13	4870.0	N/A
10/2001	20.6	0.37	0.026	<0.006	<0.004	566.0	6560.0	<0.07	<0.01	48.9	<0.002	N/A	0.12	4830.0	N/A
4/2002	21.2	0.69	0.029	<0.006	<0.004	652.0	6290.0	<0.07	<0.01	80.7	<0.002	N/A	0.22	6850.0	N/A
10/2002	31.0	0.66	<0.02	<0.006	<0.004	760.0	9600.0	<0.07	<0.01	87.0	<0.002	N/A	0.23	7400.0	N/A
4/2003	21.0	0.58	<0.02	<0.006	<0.004	810.0	7800.0	<0.07	<0.01	91.0	<0.002	N/A	0.21	7800.0	N/A
10/2003	36.0	0.82	<0.02	<0.006	<0.004	750.0	9100.0	<0.07	<0.01	100.0	<0.002	N/A	0.26	8500.0	N/A
4/2004	14.0	0.53	0.081	<0.006	<0.004	780.0	5900.0	<0.07	<0.01	100.0	<0.002	N/A	0.21	7800.0	N/A
10/2004	26.0	0.34	<0.02	<0.006	<0.004	780.0	8400.0	<0.07	<0.01	78.0	<0.002	N/A	0.2	6700.0	29.8
4/2005	29.0	0.22	0.024	<0.006	<0.004	750.0	7600.0	<0.07	<0.01	73.0	<0.002	N/A	0.16	5700.0	24.4
10/2005	17.0	0.58	0.025	<0.006	<0.004	760.0	6500.0	<0.07	<0.01	89.0	<0.002	N/A	0.23	7000.0	29.6
4/2006	22.0	0.15	0.046	<0.006	<0.004	740.0	7600.0	<0.07	<0.01	90.0	<0.002	N/A	0.2	6300.0	0.0188
10/2006	33.0	0.064	0.035	<0.0075	<0.004	790.0	9600.0	<0.07	<0.01	96.0	<0.002	N/A	0.16	6200.0	0.0269
4/2007	17.0	0.33	<0.02	<0.006	<0.004	730.0	6400.0	<0.07	<0.01	94.0	<0.002	N/A	0.2	6100.0	27.6
10/2007	21.0	0.14	0.025	<0.006	<0.004	820.0	9500.0	0.19	<0.01	250.0	<0.002	N/A	0.17	5200.0	N/A
4/2008	31.0	0.12	<0.02	<0.006	<0.004	730.0	8400.0	<0.07	<0.01	110.0	<0.002	N/A	0.21	5700.0	0.0033
10/2008	23.4	0.557	<10.0	<0.2	<0.25	830.0	7190.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	6340.0	0.0341
4/2009	38.6	0.057	0.0265	<0.006	<0.004	710.0	8280.0	<0.07	<0.02	99.0	<0.002	N/A	0.172	4390.0	23.79
10/2009	49.9	0.206	<1.0	<0.02	<0.025	832.0	8830.0	<0.05	<0.025	191.0	<0.001	N/A	0.317	5760.0	29.94
4/2010	30.0	0.28	0.016	<0.006	<0.004	750.0	8700.0	<0.01	<0.005	180.0	<0.002	N/A	0.29	6900.0	28.52
10/2010	28.0	0.29	<0.02	<0.006	<0.004	610.0	9000.0	<0.01	<0.02	140.0	<0.002	N/A	0.29	5700.0	27.2
4/2011	30.0	0.33	<0.02	<0.006	<0.004	760.0	9300.0	<0.01	<0.01	170.0	<0.002	N/A	0.33	7200.0	N/A
10/2011	33.0	0.3	<0.02	<0.006	<0.004	800.0	9800.0	<0.01	<0.001	180.0	<0.002	N/A	0.28	7400.0	N/A
4/2012	28.0	0.07	0.017	<0.006	0.001	770.0	10000.0	0.0086	<0.005	200.0	0.0001	N/A	0.24	6200.0	N/A
10/2012	33.0	0.0641	<0.1	<0.03	<0.02	803.0	8650.0	<0.35	<0.05	234.0	<0.0005	N/A	0.285	6110.0	23.3
4/2013	64.6	0.0689	0.0389	<0.006	<0.016	931.0	9960.0	<0.28	<0.04	223.0	<0.002	N/A	0.229	6850.0	N/A
10/2013	30.4	0.162	<0.1	<0.03	<0.02	774.0	9090.0	<0.35	<0.05	187.0	<0.0005	N/A	0.277	6710.0	30.1
4/2014	46.1	<0.05	<0.1	<0.03	<0.02	789.0	9480.0	<0.35	<0.05	267.0	<0.002	N/A	0.316	6320.0	N/A
10/2014	38.6	0.136	<0.1	<0.03	<0.02	805.0	8780.0	<0.35	<0.05	228.0	<0.0005	N/A	0.337	6520.0	N/A
4/2015	36.6	0.147	<0.1	<0.03	<0.02	849.0	7860.0	<0.35	<0.05	222.0	<0.002	N/A	0.274	6600.0	N/A
10/2015	42.7	0.167	<0.1	<0.03	<0.02	772.0	8220.0	<0.35	<0.05	205.0	<0.0005	N/A	0.258	6940.0	N/A
4/2016	37.8	0.058	<0.1	<0.03	<0.02	826.0	7590.0	<0.35	<0.05	239.0	<0.0005	N/A	0.235	5900.0	N/A
10/2016	45.6	0.0592	<0.1	<0.03	<0.02	863.0	8670.0	<0.35	<0.05	N/A	<0.0005	N/A	0.303	N/A	N/A
4/2017	43.0	0.111	<0.1	<0.03	<0.02	800.0	8350.0	<0.35	<0.05	302.0	<0.002	N/A	0.273	7130.0	N/A
10/2017	44.0	0.0929	<0.1	<0.03	<0.02	776.0	7890.0	<0.35	<0.05	N/A	<0.0005	N/A	0.254	N/A	N/A
4/2018	46.9	<0.05	<0.1	<0.03	<0.02	806.0	8930.0	<0.35	<0.05	331.0	<0.002	N/A	0.307	6700.0	N/A
10/2018	30.5	0.0832	<0.1	<0.03	<0.02	691.0	4240.0	<0.35	<0.05	114.0	<0.0005	N/A	0.123	2900.0	N/A
4/2019	N/A	0.068	0.0348	<0.004	<0.005	704.0	5680.0	<0.01	<0.01	97.2	<0.0002	N/A	0.0883	2760.0	N/A
10/2019	N/A	0.208	<0.05	<0.02	<0.025	571.0	10100.0	<0.05	<0.05	159.0	<0.0002	N/A	0.213	6950.0	N/A
4/2020	N/A	0.0732	0.0162	<0.004	<0.005	667.0	9210.0	<0.01	<0.01	321.0	<0.0002	N/A	0.324	4280.0	25.5

Minimum	14.0000	0.0250	0.0100	0.0015	0.0005	566.0000	4240.0000	0.0050	0.0005	48.9000	0.0001		0.0883	2760.0000	0.0033
Maximum	151.0000	0.8200	5.0000	0.1000	0.1250	1000.0000	10100.0000	0.2500	0.1250	331.0000	0.0010		0.3520	8500.0000	40.7000
Mean	35.3698	0.2783	0.1960	0.0097	0.0100	754.1489	8233.4783	0.0830	0.0147	160.0364	0.0007		0.2395	6253.1818	22.0175
Median	31.0000	0.2060	0.0370	0.0030	0.0020	769.0000	8525.0000	0.0350	0.0050	135.5000	0.0010		0.2400	6560.0000	25.6000
Std. Dev.	20.9787	0.2233	0.7614	0.0153	0.0243	87.5070	1281.3729	0.0744	0.0189	78.1079	0.0004		0.0663	1168.4053	12.2750

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 13 / WMA #6 Well: MW 13A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	33.0	0.011	0.035	<0.003	<0.001	1200.0	28000.0	<0.07	<0.01	260.0	<0.002	N/A	<0.02	19000.0	77.4
10/1999	47.2	0.074	0.028	0.0061	<0.001	1140.0	24800.0	<0.07	<0.01	352.0	<0.002	N/A	<0.02	20300.0	76.7
4/2000	41.0	0.074	0.034	0.0089	<0.001	1130.0	25500.0	<0.07	<0.01	344.0	<0.002	N/A	<0.02	20500.0	70.3
4/2001	35.0	0.027	N/A	<0.006	<0.004	1180.0	25000.0	<0.07	<0.01	357.0	<0.002	N/A	<0.02	20800.0	N/A
10/2001	43.3	0.011	0.026	<0.006	<0.004	1050.0	24800.0	<0.07	<0.01	323.0	<0.002	N/A	<0.02	16200.0	N/A
4/2002	40.4	0.016	0.042	<0.006	<0.004	1030.0	26500.0	<0.07	<0.01	307.0	<0.002	N/A	0.032	21200.0	N/A
10/2002	37.0	0.016	0.058	<0.006	<0.004	1300.0	32000.0	<0.07	<0.01	320.0	<0.002	N/A	0.023	19000.0	N/A
4/2003	34.0	0.016	0.08	<0.006	<0.004	1200.0	29000.0	<0.07	<0.01	320.0	<0.002	N/A	0.034	19000.0	N/A
10/2003	40.0	0.02	0.094	<0.006	<0.004	1100.0	27000.0	<0.07	<0.01	310.0	<0.002	N/A	0.029	21000.0	N/A
4/2004	32.0	0.034	0.096	<0.006	<0.004	1100.0	29000.0	<0.07	<0.01	280.0	<0.002	N/A	0.036	19000.0	N/A
10/2004	42.0	0.021	0.27	<0.006	<0.004	1300.0	33000.0	<0.07	<0.01	250.0	<0.002	N/A	<0.02	16000.0	59.3
4/2005	34.0	0.016	0.06	<0.006	<0.004	1100.0	30000.0	<0.07	<0.01	290.0	<0.002	N/A	<0.02	16000.0	58.7
10/2005	32.0	0.015	0.087	<0.006	<0.004	1300.0	30000.0	<0.07	<0.01	290.0	<0.002	N/A	<0.02	20000.0	73.8
4/2006	31.0	0.02	0.09	0.007	<0.004	1300.0	36000.0	<0.07	<0.01	280.0	<0.002	N/A	0.044	17000.0	0.0369
10/2006	30.0	0.019	0.1	<0.015	<0.0045	1100.0	30000.0	<0.07	<0.01	340.0	<0.002	N/A	0.025	23000.0	0.0692
4/2007	30.0	0.024	0.054	<0.03	<0.0090	1100.0	28000.0	<0.07	<0.01	300.0	<0.002	N/A	0.051	17000.0	70.5
10/2007	32.0	0.029	1.9	0.045	0.12	790.0	28000.0	0.2	<0.01	140.0	<0.002	N/A	0.035	18000.0	N/A
4/2008	37.0	0.029	0.028	<0.006	<0.004	800.0	25000.0	<0.07	<0.01	240.0	<0.002	N/A	0.023	15000.0	0.0064
10/2008	30.2	<0.5	<10.0	<0.2	<0.25	1050.0	25500.0	<0.5	<0.25	270.0	<0.001	N/A	<0.5	14900.0	0.0618
4/2009	38.9	<0.04	<0.08	<0.024	<0.016	938.0	27900.0	<0.28	<0.04	254.0	<0.002	N/A	<0.08	12400.0	58.91
10/2009	48.6	<0.05	<1.0	<0.02	<0.025	830.0	21300.0	<0.05	<0.025	253.0	<0.001	N/A	<0.05	10200.0	47.63
4/2010	170.0	<0.1	<0.05	<0.03	<0.02	1000.0	13000.0	<0.05	<0.02	290.0	<0.002	N/A	<0.094	20000.0	51.53
10/2010	41.0	<0.1	<0.02	<0.006	<0.004	700.0	21000.0	<0.01	<0.02	210.0	<0.002	N/A	<0.094	10000.0	47.04
4/2011	35.0	<0.047	0.1	<0.006	<0.02	980.0	29000.0	<0.05	<0.01	230.0	<0.002	N/A	<0.05	16000.0	N/A
10/2011	37.0	0.01	0.046	<0.012	<0.008	1200.0	24000.0	<0.02	<0.001	280.0	<0.002	N/A	0.013	15000.0	N/A
4/2012	35.0	0.012	0.033	<0.006	0.0034	970.0	30000.0	0.006	<0.005	270.0	0.0001	N/A	0.0081	18000.0	N/A
10/2012	30.3	<0.05	<0.1	<0.03	<0.02	1080.0	23100.0	<0.35	<0.05	308.0	<0.0005	N/A	<0.1	17400.0	49.9
4/2013	36.0	0.0184	0.0229	<0.006	<0.016	1110.0	28600.0	<0.28	<0.04	283.0	<0.002	N/A	<0.02	19700.0	N/A
10/2013	26.8	<0.05	<0.1	<0.03	<0.02	970.0	20600.0	<0.35	<0.05	261.0	<0.0005	N/A	<0.1	16400.0	55.7
4/2014	209.0	<0.05	<0.1	<0.03	<0.02	861.0	16000.0	<0.35	<0.05	348.0	<0.002	N/A	<0.1	11100.0	N/A
10/2014	43.3	<0.05	<0.1	<0.03	<0.02	1060.0	20700.0	<0.35	<0.05	291.0	<0.0005	N/A	<0.1	21500.0	N/A
4/2015	43.9	<0.05	<0.1	<0.03	<0.02	1140.0	29400.0	<0.35	<0.05	314.0	<0.002	N/A	<0.1	19800.0	N/A
10/2015	102.0	<0.05	<0.1	<0.03	<0.02	1190.0	20200.0	<0.35	<0.05	343.0	<0.0005	N/A	<0.1	20200.0	N/A
4/2016	251.0	<0.05	<0.1	<0.03	<0.02	712.0	20800.0	<0.35	<0.05	397.0	<0.0005	N/A	<0.1	15300.0	N/A
10/2016	45.1	<0.05	<0.1	<0.03	<0.02	993.0	27100.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	52.0	<0.05	<0.1	<0.03	<0.02	1020.0	21900.0	<0.35	<0.05	284.0	<0.002	N/A	<0.1	18700.0	N/A
10/2017	51.5	<0.05	<0.1	<0.03	<0.02	944.0	26600.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	95.8	<0.05	<0.1	<0.03	<0.02	881.0	17000.0	<0.35	<0.05	319.0	<0.002	N/A	<0.1	13200.0	N/A
10/2018	40.2	<0.05	<0.1	<0.03	<0.02	1130.0	34100.0	<0.35	<0.05	321.0	<0.0005	N/A	<0.1	5550.0	N/A
4/2019	N/A	0.0719	0.0146	<0.004	<0.005	742.0	18800.0	<0.01	<0.01	352.0	<0.0002	N/A	0.0448	10900.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1080.0	37100.0	<0.2	<0.2	304.0	<0.0002	N/A	<0.2	18300.0	N/A
4/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40.9

Minimum	26.8000	0.0100	0.0100	0.0015	0.0005	700.0000	12500.0000	0.0050	0.0005	140.0000	0.0001		0.0081	5550.0000	0.0064
Maximum	251.0000	0.2500	5.0000	0.1000	0.1250	1300.0000	37100.0000	0.2500	0.1250	397.0000	0.0010		0.2500	23000.0000	77.4000
Mean	55.2786	0.0361	0.2098	0.0121	0.0120	1037.1136	25536.3636	0.0894	0.0172	295.0238	0.0008		0.0394	16798.8095	46.5825
Median	39.4500	0.0250	0.0500	0.0082	0.0063	1065.0000	26550.0000	0.0350	0.0050	295.5000	0.0010		0.0380	17700.0000	53.6150
Std. Dev.	47.9953	0.0396	0.7580	0.0163	0.0256	160.4801	5772.4724	0.0747	0.0232	46.0310	0.0004		0.0378	3818.1928	27.6622

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 14 / WMA #9 Well: MW 14A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	22.0	<0.01	<0.02	<0.003	<0.001	770.0	3300.0	<0.07	<0.01	300.0	<0.002	N/A	0.094	5700.0	31.2
10/1999	178.0	0.011	0.02	<0.003	<0.001	707.0	3030.0	<0.07	<0.01	299.0	<0.002	N/A	0.1	5540.0	29.0
4/2000	88.2	0.01	0.025	<0.003	<0.001	727.0	2270.0	<0.07	0.013	292.0	<0.002	N/A	0.1	5750.0	28.0
4/2001	41.7	0.013	0.029	<0.006	<0.004	663.0	3020.0	<0.07	<0.01	222.0	<0.002	N/A	0.074	4370.0	N/A
10/2001	36.7	<0.01	0.024	<0.006	<0.004	602.0	2930.0	<0.07	<0.01	173.0	<0.002	N/A	0.043	2270.0	N/A
4/2002	70.4	<0.01	0.033	<0.006	<0.004	705.0	2310.0	<0.07	<0.01	210.0	<0.002	N/A	0.083	4940.0	N/A
10/2002	90.0	<0.01	0.048	<0.003	<0.002	760.0	2100.0	0.16	<0.01	24.0	<0.002	N/A	0.025	1800.0	N/A
4/2003	24.0	0.012	0.034	<0.006	<0.004	700.0	2800.0	<0.07	<0.01	150.0	<0.002	N/A	0.071	3600.0	N/A
10/2003	39.0	<0.01	0.028	<0.006	<0.004	720.0	7100.0	<0.07	<0.01	270.0	<0.002	N/A	0.11	6300.0	N/A
4/2004	44.0	0.04	0.16	<0.006	<0.004	710.0	1900.0	<0.07	0.032	250.0	<0.002	N/A	0.098	6000.0	N/A
10/2004	39.0	<0.01	0.024	<0.006	<0.004	710.0	4700.0	<0.07	<0.01	190.0	<0.002	N/A	0.078	5000.0	25.4
4/2005	47.0	<0.01	0.027	<0.006	<0.004	700.0	2300.0	<0.07	<0.01	170.0	<0.002	N/A	0.079	4700.0	22.3
10/2005	48.0	<0.01	0.055	<0.006	<0.004	730.0	2300.0	0.14	<0.01	35.0	<0.002	N/A	0.047	2000.0	22.4
4/2006	23.0	<0.01	0.033	<0.006	<0.004	700.0	3400.0	<0.07	<0.01	240.0	<0.002	N/A	0.14	6300.0	0.016
10/2006	29.0	<0.01	0.021	<0.0075	<0.004	650.0	3800.0	<0.07	<0.01	99.0	<0.002	N/A	0.06	4200.0	0.0224
4/2007	140.0	<0.01	0.021	<0.006	<0.004	660.0	1800.0	0.092	<0.01	140.0	<0.002	N/A	0.085	3700.0	18.1
10/2007	33.0	<0.01	<0.02	<0.006	<0.004	680.0	6800.0	0.11	<0.01	88.0	<0.002	N/A	0.065	3100.0	N/A
4/2008	25.0	<0.01	0.041	<0.006	<0.004	650.0	5200.0	<0.07	<0.01	170.0	<0.002	N/A	0.086	4700.0	0.0024
10/2008	34.1	<0.5	<10.0	<0.2	<0.25	745.0	5430.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	4560.0	0.0257
4/2009	25.0	<0.02	<0.02	<0.006	<0.004	702.0	1650.0	<0.07	<0.02	208.0	<0.002	N/A	0.115	4800.0	22.31
10/2009	26.2	<0.05	<1.0	<0.02	<0.025	690.0	1940.0	0.0963	<0.025	68.4	<0.001	N/A	<0.05	1590.0	19.09
4/2010	29.0	<0.1	0.021	<0.006	<0.004	620.0	5800.0	0.045	<0.02	180.0	<0.002	N/A	0.11	4800.0	18.28
10/2010	34.0	<0.1	<0.02	<0.006	<0.004	580.0	6100.0	0.036	<0.02	170.0	<0.002	N/A	<0.047	1000.0	17.08
4/2011	33.0	<0.047	0.025	<0.006	<0.004	620.0	2300.0	0.073	<0.01	74.0	<0.002	N/A	<0.05	2100.0	N/A
10/2011	36.0	0.0051	0.022	<0.006	<0.004	650.0	6500.0	0.037	<0.001	220.0	<0.002	N/A	0.1	5400.0	N/A
4/2012	26.0	<0.024	0.031	<0.006	0.0007	720.0	3900.0	0.059	<0.005	62.0	0.0001	N/A	0.016	1100.0	N/A
10/2012	57.0	<0.05	<0.1	<0.03	<0.02	771.0	7030.0	<0.35	<0.05	90.8	<0.0005	N/A	<0.1	1180.0	19.9
4/2013	51.4	<0.01	0.0273	<0.006	<0.016	813.0	2100.0	<0.28	<0.04	79.8	<0.002	N/A	0.0189	1300.0	N/A
10/2013	46.4	<0.05	<0.1	<0.03	<0.02	709.0	7170.0	<0.35	<0.05	111.0	<0.0005	N/A	<0.1	2210.0	25.3
4/2014	21.0	<0.05	<0.1	<0.03	<0.02	723.0	2090.0	<0.35	<0.05	81.4	<0.002	N/A	<0.1	1230.0	N/A
10/2014	26.0	<0.05	<0.1	<0.03	<0.02	750.0	2640.0	<0.35	<0.05	140.0	<0.0005	N/A	<0.1	2730.0	N/A
4/2015	25.4	<0.05	<0.1	<0.03	<0.02	832.0	3060.0	<0.35	<0.05	160.0	<0.002	N/A	<0.1	2720.0	N/A
10/2015	46.0	<0.05	<0.1	<0.03	<0.02	695.0	5400.0	<0.35	<0.05	203.0	<0.0005	N/A	<0.1	4920.0	N/A
4/2016	24.9	<0.05	<0.1	<0.03	<0.02	754.0	N/A	<0.35	<0.05	109.0	<0.0005	N/A	<0.1	1300.0	N/A
10/2016	38.9	<0.05	<0.1	<0.03	<0.02	893.0	1940.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	95.0	<0.05	<0.1	<0.03	<0.02	745.0	2680.0	<0.35	<0.05	128.0	<0.002	N/A	<0.1	1380.0	N/A
10/2017	32.0	<0.05	<0.1	<0.03	<0.02	702.0	4180.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	28.7	<0.05	<0.1	<0.03	<0.02	770.0	2360.0	<0.35	<0.05	154.0	<0.002	N/A	<0.1	1990.0	N/A
10/2018	155.0	<0.05	<0.1	<0.03	<0.02	957.0	3170.0	<0.35	<0.05	84.9	<0.0005	N/A	<0.1	2060.0	N/A
4/2019	N/A	<0.01	0.0347	<0.004	<0.005	946.0	2940.0	0.168	<0.01	25.9	<0.0002	N/A	0.0317	1370.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	776.0	6680.0	<0.2	<0.2	126.0	<0.0002	N/A	<0.2	3130.0	N/A
4/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.9
Minimum	21.0000	0.0050	0.0100	0.0015	0.0005	550.0000	1600.0000	0.0350	0.0005	18.0000	0.0001		0.0160	1000.0000	0.0024
Maximum	178.0000	0.2500	5.0000	0.1000	0.1250	957.0000	7170.0000	0.2500	0.1250	300.0000	0.0010		0.2500	6300.0000	31.2000
Mean	48.4733	0.0226	0.1552	0.0091	0.0081	720.7021	3561.0870	0.1002	0.0165	147.3409	0.0008		0.0679	3396.8182	17.6848
Median	36.7000	0.0120	0.0340	0.0030	0.0020	709.0000	2935.0000	0.0860	0.0050	145.0000	0.0010		0.0500	3215.0000	19.9000
Std. Dev.	34.5758	0.0380	0.7256	0.0154	0.0191	81.5656	1716.8294	0.0644	0.0226	79.6206	0.0004		0.0399	1719.0706	10.4625

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 14 / WMA #9 Well: MW 14A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	360.0	0.016	0.027	<0.003	<0.001	620.0	4800.0	<0.07	<0.01	180.0	<0.002	N/A	0.069	3500.0	20.9
10/1999	74.0	0.015	0.021	<0.003	<0.001	603.0	5120.0	<0.07	<0.01	181.0	<0.002	N/A	0.1	4000.0	20.2
4/2000	35.2	0.016	0.072	<0.003	<0.001	681.0	4840.0	<0.07	<0.01	194.0	<0.002	N/A	0.089	4110.0	20.4
10/2000	78.4	0.014	0.051	<0.006	<0.004	619.0	4970.0	<0.07	<0.01	194.0	<0.002	N/A	0.092	3720.0	N/A
4/2001	50.8	0.018	N/A	<0.006	<0.004	711.0	4920.0	<0.07	<0.01	219.0	<0.002	N/A	0.094	4110.0	N/A
10/2001	83.1	0.011	0.026	<0.006	<0.004	698.0	4950.0	<0.07	<0.01	229.0	<0.002	N/A	0.11	4010.0	N/A
4/2002	44.1	0.014	0.052	<0.006	<0.004	649.0	4750.0	<0.07	<0.01	208.0	<0.002	N/A	0.1	3910.0	N/A
10/2002	41.0	0.012	0.038	<0.006	<0.004	760.0	5300.0	<0.07	<0.01	170.0	<0.002	N/A	0.099	3700.0	N/A
4/2003	42.0	<0.01	0.071	<0.006	<0.004	720.0	5200.0	<0.07	<0.01	240.0	<0.002	N/A	0.11	3500.0	N/A
10/2003	75.0	0.01	0.034	<0.006	<0.004	700.0	5100.0	<0.07	<0.01	230.0	<0.002	N/A	0.11	4000.0	N/A
4/2004	68.0	0.016	0.12	<0.006	<0.004	680.0	5500.0	<0.07	<0.01	220.0	<0.002	N/A	0.1	4000.0	N/A
10/2004	79.0	0.011	0.022	<0.006	<0.004	730.0	5000.0	<0.07	<0.01	240.0	<0.002	N/A	0.1	4000.0	21.0
4/2005	82.0	0.015	0.12	<0.006	<0.004	720.0	5000.0	<0.07	<0.01	240.0	<0.002	N/A	0.11	4000.0	21.8
10/2005	55.0	0.011	0.033	<0.006	<0.004	640.0	4900.0	<0.07	<0.01	230.0	<0.002	N/A	0.12	3300.0	21.6
4/2006	66.0	0.011	0.056	<0.006	<0.004	680.0	5700.0	<0.07	<0.01	200.0	<0.002	N/A	0.15	3800.0	0.0143
10/2006	83.0	0.015	0.13	<0.0075	<0.004	730.0	5500.0	<0.07	<0.01	260.0	<0.002	N/A	0.11	4400.0	0.0211
4/2007	69.0	0.012	0.028	<0.006	<0.004	670.0	5100.0	<0.07	<0.01	240.0	<0.002	N/A	0.12	4100.0	19.4
10/2007	74.0	0.013	<0.02	<0.006	<0.004	700.0	5500.0	<0.07	<0.01	220.0	<0.002	N/A	0.13	4200.0	N/A
4/2008	75.0	<0.01	0.024	<0.006	<0.004	630.0	5600.0	<0.07	<0.01	210.0	<0.002	N/A	0.11	4100.0	0.0022
10/2008	72.4	<0.5	<10.0	<0.2	<0.25	788.0	4870.0	<0.5	<0.25	254.0	<0.001	N/A	<0.5	3600.0	0.0213
4/2009	66.8	<0.02	0.0373	<0.006	<0.004	703.0	4100.0	<0.07	<0.02	217.0	<0.002	N/A	0.124	3590.0	20.1
10/2009	67.4	<0.02	<0.2	<0.004	<0.005	671.0	5450.0	<0.01	<0.01	225.0	<0.001	N/A	0.123	3600.0	20.31
4/2010	70.0	<0.05	0.077	<0.006	<0.004	660.0	5900.0	0.012	<0.01	220.0	<0.002	N/A	0.13	4300.0	19.48
10/2010	69.0	<0.05	0.021	<0.006	<0.004	640.0	5700.0	<0.01	<0.01	210.0	<0.002	N/A	0.11	4100.0	8.08
4/2011	71.0	<0.047	0.057	<0.006	<0.004	650.0	6500.0	<0.01	<0.01	200.0	<0.002	N/A	0.12	4400.0	N/A
10/2011	68.0	<0.0047	<0.02	<0.006	<0.004	640.0	5800.0	<0.01	<0.001	200.0	<0.002	N/A	<0.005	4300.0	N/A
4/2012	72.0	0.011	0.066	<0.012	0.002	700.0	6300.0	0.0075	0.0012	240.0	0.0001	N/A	0.11	4500.0	N/A
10/2012	40.6	<0.05	<0.1	<0.03	<0.02	714.0	5580.0	<0.35	<0.05	220.0	<0.0005	N/A	<0.1	3990.0	15.7
4/2013	64.0	0.0103	0.0551	<0.006	<0.008	761.0	5820.0	<0.14	<0.02	201.0	<0.002	N/A	0.0627	4140.0	N/A
10/2013	50.4	<0.05	<0.1	<0.03	<0.02	657.0	5470.0	<0.35	<0.05	196.0	<0.0005	N/A	<0.1	4330.0	19.8
4/2014	49.2	<0.05	<0.1	<0.03	<0.02	815.0	5730.0	<0.35	<0.05	230.0	<0.002	N/A	<0.1	3890.0	N/A
10/2014	76.8	<0.05	<0.1	<0.03	<0.02	864.0	6060.0	<0.35	<0.05	208.0	<0.0005	N/A	<0.1	3130.0	N/A
4/2015	132.0	<0.05	<0.1	<0.03	<0.02	826.0	5860.0	<0.35	<0.05	253.0	<0.002	N/A	<0.1	4440.0	N/A
10/2015	30.2	<0.05	<0.1	<0.03	<0.02	827.0	3590.0	<0.35	<0.05	107.0	<0.0005	N/A	<0.1	1520.0	N/A
4/2016	218.0	<0.05	0.164	<0.03	<0.02	816.0	N/A	<0.35	<0.05	224.0	<0.0005	N/A	<0.1	3690.0	N/A
10/2016	56.7	<0.05	<0.1	<0.03	<0.02	733.0	5600.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	72.5	<0.05	<0.1	<0.03	<0.02	807.0	5590.0	<0.35	<0.05	231.0	<0.002	N/A	<0.1	3890.0	N/A
10/2017	56.0	<0.05	<0.1	<0.03	<0.02	800.0	5590.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	38.6	<0.05	<0.1	<0.03	<0.02	817.0	4780.0	<0.35	<0.05	267.0	<0.002	N/A	<0.1	3960.0	N/A
10/2018	40.3	<0.05	<0.1	<0.03	<0.02	1030.0	5030.0	<0.35	<0.05	200.0	<0.0005	N/A	<0.1	2670.0	N/A
4/2019	N/A	0.0164	0.125	<0.004	<0.005	992.0	5700.0	0.153	<0.01	156.0	<0.0002	N/A	0.0342	1930.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	922.0	5360.0	<0.2	<0.2	195.0	<0.0002	N/A	<0.2	2510.0	N/A
4/2020	N/A	0.0227	0.126	<0.004	<0.005	768.0	3790.0	0.0944	<0.01	203.0	<0.0002	N/A	0.0425	2170.0	17.5

Minimum	5.0000	0.0024	0.0100	0.0015	0.0005	599.0000	3590.0000	0.0050	0.0005	96.0000	0.0001		0.0025	1520.0000	0.0022
Maximum	360.0000	0.2500	5.0000	0.1000	0.1250	1030.0000	6500.0000	0.2500	0.1250	267.0000	0.0010		0.2500	4500.0000	21.8000
Mean	72.3750	0.0232	0.1594	0.0087	0.0075	732.1042	5254.7826	0.0777	0.0145	211.1087	0.0008		0.0895	3759.7826	14.7961
Median	68.0000	0.0155	0.0500	0.0030	0.0020	706.5000	5250.0000	0.0350	0.0050	218.0000	0.0010		0.0990	4000.0000	19.6400
Std. Dev.	54.1404	0.0362	0.7144	0.0153	0.0189	99.8218	573.8515	0.0692	0.0226	33.7285	0.0004		0.0395	653.2023	8.6962

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 14 / WMA #9 Well: MW 14B1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	120.0	0.015	<0.02	<0.003	<0.001	620.0	2700.0	<0.07	<0.01	170.0	<0.002	N/A	<0.02	4600.0	26.2
10/1999	161.0	<0.01	0.079	<0.003	<0.001	599.0	2360.0	<0.07	<0.01	253.0	<0.002	N/A	<0.02	2870.0	12.8
4/2000	129.0	0.031	0.28	0.0065	<0.001	617.0	2240.0	0.093	0.022	243.0	<0.002	N/A	<0.02	5240.0	25.7
10/2000	80.0	0.022	0.15	<0.006	<0.004	525.0	4860.0	<0.07	0.014	185.0	<0.002	N/A	<0.02	4410.0	N/A
4/2001	120.0	0.018	0.12	<0.006	<0.004	559.0	2390.0	<0.07	0.011	196.0	<0.002	N/A	<0.02	3730.0	N/A
10/2001	110.0	0.012	0.025	<0.006	<0.004	503.0	2570.0	<0.07	<0.01	170.0	<0.002	N/A	<0.02	2630.0	N/A
4/2002	130.0	0.022	0.15	<0.006	<0.004	502.0	2310.0	<0.07	0.011	199.0	<0.002	N/A	<0.02	2390.0	N/A
10/2002	95.0	0.015	0.092	<0.006	<0.004	590.0	3700.0	<0.07	<0.01	190.0	<0.002	N/A	<0.02	3900.0	N/A
4/2003	98.0	0.019	0.1	<0.006	<0.004	620.0	3300.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	3900.0	N/A
10/2003	88.0	0.013	0.045	<0.006	<0.004	530.0	3900.0	<0.07	<0.01	170.0	<0.002	N/A	<0.02	2900.0	N/A
4/2004	100.0	0.015	0.059	<0.006	<0.004	550.0	2800.0	<0.07	<0.01	180.0	<0.002	N/A	0.022	3400.0	N/A
10/2004	95.0	0.011	0.026	<0.006	<0.004	590.0	3100.0	<0.07	<0.01	180.0	<0.002	N/A	<0.02	3600.0	24.3
4/2005	110.0	0.013	0.06	<0.006	<0.004	590.0	2600.0	<0.07	<0.01	180.0	<0.002	N/A	<0.02	3800.0	21.5
10/2005	96.0	0.013	0.021	<0.006	<0.004	540.0	2900.0	<0.07	<0.01	170.0	<0.002	N/A	0.022	2800.0	22.6
4/2006	75.0	0.013	0.058	<0.006	<0.004	600.0	4200.0	<0.07	<0.01	180.0	<0.002	N/A	0.031	5200.0	14.8
10/2006	81.0	0.012	0.049	<0.0075	<0.004	590.0	3600.0	<0.07	<0.01	190.0	<0.002	N/A	<0.02	4300.0	0.0228
4/2007	85.0	0.019	0.037	<0.006	<0.004	590.0	2800.0	<0.07	<0.01	190.0	<0.002	N/A	0.026	3100.0	20.2
10/2007	52.0	0.019	0.036	<0.006	<0.004	610.0	8500.0	<0.07	<0.01	180.0	<0.002	N/A	0.02	4400.0	N/A
4/2008	26.0	<0.01	0.08	<0.006	<0.004	710.0	4200.0	<0.07	<0.01	160.0	<0.002	N/A	0.011	3500.0	0.0016
10/2008	34.2	<0.5	<10.0	<0.2	<0.25	747.0	4650.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	1770.0	0.0143
4/2009	38.1	<0.02	0.0304	<0.006	<0.004	628.0	3570.0	<0.07	<0.02	182.0	<0.002	N/A	<0.04	1960.0	13.3
10/2009	54.7	<0.02	<0.2	<0.004	<0.005	638.0	5320.0	0.0248	<0.01	170.0	<0.001	N/A	<0.02	1920.0	12.95
4/2010	42.0	<0.025	0.1	<0.006	<0.004	610.0	4400.0	0.016	<0.005	180.0	<0.002	N/A	<0.024	4400.0	16.05
10/2010	37.0	<0.05	0.065	<0.006	<0.004	630.0	4400.0	0.025	<0.01	170.0	<0.002	N/A	<0.024	4600.0	7.26
4/2011	37.0	<0.024	0.05	<0.006	<0.004	610.0	3800.0	0.014	<0.005	170.0	<0.002	N/A	<0.025	4400.0	N/A
10/2011	36.0	0.011	0.039	<0.006	<0.004	760.0	4600.0	0.08	<0.001	100.0	<0.002	N/A	0.16	2600.0	N/A
4/2012	38.0	0.0071	0.039	<0.006	0.0018	660.0	3600.0	0.02	<0.005	160.0	0.0001	N/A	<0.025	5000.0	N/A
10/2012	31.8	<0.05	<0.1	<0.03	<0.02	778.0	4030.0	<0.35	<0.05	152.0	<0.0005	N/A	<0.1	2440.0	12.1
4/2013	100.0	<0.01	0.0415	<0.006	<0.008	700.0	3260.0	<0.14	<0.02	128.0	<0.002	N/A	<0.01	2420.0	N/A
10/2013	38.8	<0.05	<0.1	<0.03	<0.02	692.0	5050.0	<0.35	<0.05	136.0	<0.0005	N/A	<0.1	3730.0	19.4
4/2014	48.0	<0.05	<0.1	<0.03	<0.02	762.0	3130.0	<0.35	<0.05	82.3	<0.002	N/A	<0.1	2240.0	N/A
10/2014	60.6	<0.05	<0.1	<0.03	<0.02	677.0	3120.0	<0.35	<0.05	152.0	<0.0005	N/A	<0.1	2530.0	N/A
4/2015	38.9	<0.05	<0.1	<0.03	<0.02	660.0	3140.0	<0.35	<0.05	154.0	<0.002	N/A	<0.1	2600.0	N/A
10/2015	46.2	<0.05	<0.1	<0.03	<0.02	687.0	3250.0	<0.35	<0.05	163.0	<0.0005	N/A	<0.1	2670.0	N/A
4/2016	44.9	<0.05	<0.1	<0.03	<0.02	646.0	N/A	<0.35	<0.05	163.0	<0.0005	N/A	<0.1	2590.0	N/A
10/2016	53.1	<0.05	<0.1	<0.03	<0.02	680.0	3080.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	42.0	<0.05	<0.1	<0.03	<0.02	641.0	3040.0	<0.35	<0.05	180.0	<0.002	N/A	<0.1	2720.0	N/A
10/2017	46.0	<0.05	<0.1	<0.03	<0.02	637.0	3610.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	43.8	<0.05	<0.1	<0.03	<0.02	658.0	3800.0	<0.35	<0.05	179.0	<0.002	N/A	<0.1	3040.0	N/A
10/2018	48.5	<0.05	<0.1	<0.03	<0.02	1010.0	4070.0	<0.35	<0.05	131.0	<0.0005	N/A	<0.1	2590.0	N/A
4/2019	N/A	0.035	0.244	<0.004	<0.005	619.0	5410.0	0.0224	<0.01	184.0	<0.0002	N/A	<0.01	2990.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	809.0	5550.0	<0.2	<0.2	166.0	<0.0002	N/A	<0.2	3270.0	N/A
4/2020	N/A	0.0248	0.04	<0.004	<0.005	718.0	4190.0	0.052	<0.01	153.0	<0.0002	N/A	0.0101	2320.0	15.9

Minimum	26.0000	0.0050	0.0100	0.0015	0.0005	502.0000	1840.0000	0.0140	0.0005	82.3000	0.0001		0.0025	1770.0000	0.0016
Maximum	161.0000	0.2500	5.0000	0.1000	0.1250	1010.0000	8500.0000	0.2500	0.1250	253.0000	0.0010		0.2500	5240.0000	26.2000
Mean	68.4444	0.0292	0.2734	0.0110	0.0103	646.8958	3663.1915	0.0845	0.0182	168.3543	0.0008		0.0403	3252.3913	14.7277
Median	52.0000	0.0190	0.0500	0.0030	0.0020	633.5000	3570.0000	0.0350	0.0050	170.0000	0.0010		0.0205	2945.0000	15.3500
Std. Dev.	34.8825	0.0486	0.9973	0.0201	0.0253	90.5950	1145.8301	0.0717	0.0274	31.0178	0.0004		0.0578	958.5456	8.4975

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 14 / WMA #9 Well: MW 14B2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/1999	37.0	<0.01	0.021	<0.003	<0.001	700.0	3600.0	<0.07	<0.01	230.0	<0.002	N/A	<0.02	4000.0	13.97
10/1999	74.9	<0.01	<0.02	<0.003	<0.001	609.0	3320.0	<0.07	<0.01	264.0	<0.002	N/A	<0.02	2930.0	14.15
4/2000	112.0	<0.01	0.021	<0.003	<0.001	680.0	3680.0	<0.07	<0.01	283.0	<0.002	N/A	<0.02	2560.0	14.69
10/2000	37.0	<0.01	0.026	<0.006	<0.004	631.0	5330.0	<0.07	<0.01	269.0	<0.002	N/A	<0.02	2430.0	N/A
4/2001	98.1	<0.01	0.044	<0.006	<0.004	669.0	3560.0	<0.07	<0.01	256.0	<0.002	N/A	<0.02	4010.0	N/A
10/2001	141.0	<0.01	<0.02	<0.006	<0.004	627.0	3620.0	<0.07	<0.01	289.0	<0.002	N/A	<0.02	2720.0	N/A
4/2002	31.4	0.015	0.058	<0.006	<0.004	684.0	3580.0	<0.07	<0.01	189.0	<0.002	N/A	<0.02	4130.0	N/A
10/2002	49.0	<0.01	0.082	<0.006	<0.004	750.0	5400.0	<0.07	<0.01	240.0	<0.002	N/A	<0.02	3700.0	N/A
4/2003	37.0	<0.01	0.047	<0.006	<0.004	690.0	6000.0	<0.07	<0.01	260.0	<0.002	N/A	<0.02	2700.0	N/A
10/2003	65.0	<0.01	0.047	<0.006	<0.004	690.0	3500.0	<0.07	<0.01	270.0	<0.002	N/A	<0.02	3700.0	N/A
4/2004	100.0	<0.01	0.021	<0.006	<0.004	640.0	3600.0	<0.07	<0.01	270.0	<0.002	N/A	<0.02	2700.0	N/A
10/2004	34.0	<0.01	<0.02	<0.006	<0.004	700.0	5300.0	<0.07	<0.01	270.0	<0.002	N/A	<0.02	2700.0	16.47
4/2005	100.0	<0.01	<0.02	<0.006	<0.004	620.0	4000.0	<0.07	<0.01	310.0	<0.002	N/A	<0.02	2600.0	18.8
10/2005	100.0	<0.01	<0.02	<0.006	<0.004	650.0	4600.0	<0.07	<0.01	270.0	<0.002	N/A	<0.02	3700.0	18.0
4/2006	51.0	0.01	0.07	<0.006	<0.004	690.0	5000.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	4900.0	0.0111
10/2006	35.0	0.011	0.033	<0.0075	<0.004	640.0	4900.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	4800.0	0.0171
4/2007	31.0	<0.01	0.051	<0.006	<0.004	720.0	3900.0	<0.07	<0.01	250.0	<0.002	N/A	<0.02	2500.0	15.5
10/2007	39.0	<0.01	<0.02	<0.006	<0.004	650.0	5500.0	<0.07	<0.01	240.0	<0.002	N/A	<0.02	3000.0	N/A
4/2008	40.0	<0.01	<0.02	<0.006	<0.004	600.0	4900.0	<0.07	<0.01	260.0	<0.002	N/A	0.0081	2700.0	0.0012
10/2008	49.5	<0.5	<10.0	<0.2	<0.25	723.0	3290.0	<0.5	<0.25	276.0	<0.001	N/A	<0.5	2360.0	0.0164
4/2009	44.0	<0.02	0.0241	<0.006	<0.004	651.0	3480.0	<0.07	<0.02	279.0	<0.002	N/A	<0.04	2660.0	15.83
10/2009	67.9	<0.02	<0.2	<0.004	<0.005	578.0	4070.0	<0.01	<0.01	273.0	<0.001	N/A	<0.02	2380.0	15.12
4/2010	75.0	<0.05	0.025	<0.006	<0.004	680.0	3900.0	0.018	<0.01	230.0	<0.002	N/A	<0.047	3600.0	15.66
10/2010	130.0	<0.05	<0.02	<0.006	<0.004	610.0	3900.0	<0.01	<0.01	260.0	<0.002	N/A	<0.047	3200.0	7.49
4/2011	130.0	<0.047	<0.02	<0.006	<0.004	610.0	4200.0	<0.01	<0.01	270.0	<0.002	N/A	<0.05	2800.0	N/A
10/2011	120.0	0.0079	<0.02	<0.006	<0.004	650.0	4500.0	0.013	<0.001	240.0	<0.002	N/A	0.0068	3100.0	N/A
4/2012	35.0	0.0076	0.036	<0.006	<0.02	1300.0	37000.0	<0.05	0.0029	370.0	0.0	N/A	<0.025	28000.0	N/A
10/2012	93.8	<0.05	<0.1	<0.03	<0.02	677.0	3790.0	<0.35	<0.05	299.0	<0.0005	N/A	<0.1	2630.0	13.2
4/2013	43.2	<0.01	0.047	<0.006	<0.016	980.0	18700.0	<0.28	<0.04	225.0	<0.002	N/A	0.0573	16200.0	N/A
10/2013	477.0	<0.05	<0.1	<0.03	<0.02	692.0	4910.0	<0.35	<0.05	342.0	<0.0005	N/A	<0.1	3860.0	18.7
4/2014	70.3	<0.05	<0.1	<0.03	<0.02	764.0	4360.0	<0.35	<0.05	272.0	<0.002	N/A	<0.1	2920.0	N/A
10/2014	95.4	<0.05	<0.1	<0.03	<0.02	784.0	3900.0	<0.35	<0.05	256.0	<0.0005	N/A	<0.1	3220.0	N/A
4/2015	126.0	<0.05	<0.1	<0.03	<0.02	799.0	3680.0	<0.35	<0.05	245.0	<0.002	N/A	<0.1	2730.0	N/A
10/2015	41.9	<0.05	<0.1	<0.03	<0.02	718.0	3850.0	<0.35	<0.05	242.0	<0.0005	N/A	<0.1	2920.0	N/A
4/2016	166.0	<0.05	<0.1	<0.03	<0.02	809.0	N/A	<0.35	<0.05	187.0	<0.0005	N/A	<0.1	2630.0	N/A
10/2016	40.7	<0.05	<0.1	<0.03	<0.02	729.0	3890.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	50.5	<0.05	<0.1	<0.03	<0.02	707.0	4020.0	<0.35	<0.05	272.0	<0.002	N/A	<0.1	2900.0	N/A
10/2017	479.0	<0.05	<0.1	<0.03	<0.02	964.0	5080.0	0.423	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	129.0	<0.05	<0.1	<0.03	<0.02	893.0	4000.0	<0.35	<0.05	211.0	<0.002	N/A	<0.1	2840.0	N/A
10/2018	1190.0	<0.05	<0.1	<0.03	<0.02	1160.0	3660.0	0.437	<0.05	<10.0	<0.0005	N/A	<0.1	2650.0	N/A
4/2019	N/A	<0.01	0.0561	<0.004	<0.005	1030.0	3770.0	0.329	<0.01	24.9	<0.0002	N/A	<0.01	2630.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	898.0	9170.0	0.248	<0.2	67.1	<0.0002	N/A	<0.2	4570.0	N/A
4/2020	N/A	<0.01	0.0489	<0.004	<0.005	778.0	2920.0	0.241	<0.01	32.1	<0.0002	N/A	<0.01	2620.0	16.6

Minimum	31.0000	0.0008	0.0100	0.0015	0.0005	578.0000	2920.0000	0.0050	0.0005	5.0000	0.0000		0.0050	2360.0000	0.0012
Maximum	1190.0000	0.2500	5.0000	0.1000	0.1250	1300.0000	37000.0000	0.4370	0.1250	370.0000	0.0010		0.2500	28000.0000	18.8000
Mean	120.3238	0.0199	0.1485	0.0091	0.0082	738.3556	5346.5909	0.1037	0.0154	238.7930	0.0007		0.0298	3981.3953	11.9014
Median	70.1500	0.0079	0.0470	0.0030	0.0020	690.0000	3950.0000	0.0350	0.0050	260.0000	0.0010		0.0100	2840.0000	14.9050
Std. Dev.	193.6065	0.0385	0.7400	0.0157	0.0194	148.6025	5441.2802	0.1101	0.0232	75.6512	0.0004		0.0400	4299.8209	6.9898

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A1
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/1999	195.0	<0.01	0.038	<0.003	<0.001	577.0	3290.0	<0.07	<0.01	237.0	<0.002	N/A	0.031	2480.0	N/A
4/2000	195.0	<0.01	0.097	<0.003	<0.001	642.0	3180.0	<0.07	<0.01	266.0	<0.002	N/A	0.022	3620.0	14.08
10/2000	177.0	<0.01	0.036	<0.006	<0.004	567.0	3640.0	<0.07	<0.01	220.0	<0.002	N/A	<0.02	3480.0	N/A
4/2001	182.0	0.012	0.13	<0.006	<0.004	613.0	3380.0	<0.07	<0.01	250.0	<0.002	N/A	0.023	3840.0	N/A
10/2001	179.0	<0.01	0.025	<0.006	<0.004	645.0	3440.0	<0.07	<0.01	253.0	<0.002	N/A	0.038	2780.0	N/A
4/2002	179.0	0.013	0.16	<0.006	<0.004	644.0	3740.0	<0.07	<0.01	310.0	<0.002	N/A	0.032	3090.0	N/A
10/2002	130.0	<0.01	0.026	<0.006	<0.004	650.0	5000.0	<0.07	<0.01	260.0	<0.002	N/A	0.04	2900.0	N/A
4/2003	120.0	<0.01	0.033	<0.006	<0.004	680.0	5500.0	<0.07	<0.01	260.0	<0.002	N/A	0.037	3000.0	N/A
10/2003	180.0	<0.01	0.05	<0.006	<0.004	610.0	3900.0	<0.07	<0.01	220.0	<0.002	N/A	0.02	4500.0	N/A
4/2004	160.0	0.015	0.035	<0.006	<0.004	640.0	4100.0	<0.07	<0.01	240.0	<0.002	N/A	0.027	3700.0	N/A
10/2004	110.0	<0.01	0.094	<0.006	<0.004	650.0	5200.0	<0.07	<0.01	270.0	<0.002	N/A	0.024	3100.0	1.938
4/2005	120.0	<0.01	0.048	<0.006	<0.004	660.0	4900.0	<0.07	<0.01	270.0	<0.002	N/A	0.027	3200.0	19.5
10/2005	160.0	<0.01	0.022	<0.006	<0.004	650.0	3900.0	<0.07	<0.01	250.0	<0.002	N/A	0.039	3000.0	18.9
4/2006	92.0	<0.01	0.04	<0.006	<0.004	690.0	6000.0	<0.07	<0.01	260.0	<0.002	N/A	0.038	3300.0	12.55
10/2006	170.0	<0.01	0.037	<0.0075	<0.004	650.0	4100.0	<0.07	<0.01	280.0	<0.002	N/A	0.026	3300.0	0.0184
4/2007	140.0	<0.01	0.043	<0.006	<0.004	650.0	4400.0	<0.07	<0.01	270.0	<0.002	N/A	0.04	3200.0	18.8
10/2007	130.0	<0.01	<0.02	<0.006	<0.004	770.0	5100.0	<0.07	<0.01	82.0	<0.002	N/A	0.031	3300.0	N/A
4/2008	89.0	<0.01	0.035	<0.006	<0.004	610.0	6700.0	<0.07	<0.01	220.0	<0.002	N/A	0.02	3500.0	0.0018
10/2008	141.0	<0.5	<10.0	<0.2	<0.25	758.0	3420.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	2800.0	0.0177
4/2009	135.0	<0.02	0.03	<0.006	<0.004	653.0	2530.0	<0.07	<0.02	219.0	<0.002	N/A	<0.04	2740.0	16.32
10/2009	125.0	<0.02	<0.2	<0.016	<0.005	601.0	4740.0	<0.01	<0.01	163.0	<0.001	N/A	<0.02	4470.0	16.24
4/2010	140.0	<0.05	0.048	<0.006	<0.004	620.0	4200.0	0.014	<0.01	220.0	<0.002	N/A	<0.047	3200.0	16.54
10/2010	95.0	<0.1	<0.02	<0.006	<0.004	590.0	6000.0	<0.01	<0.02	170.0	<0.002	N/A	<0.094	5600.0	7.69
4/2011	89.0	<0.047	0.42	<0.006	<0.004	610.0	6500.0	0.13	0.022	240.0	<0.002	N/A	<0.05	4300.0	N/A
10/2011	150.0	0.0053	0.02	<0.006	<0.004	650.0	4500.0	<0.01	<0.001	230.0	<0.002	N/A	<0.005	3300.0	N/A
4/2012	140.0	0.0035	0.043	<0.012	0.0019	690.0	4900.0	0.0072	0.0007	270.0	0.0001	N/A	0.022	3500.0	N/A
10/2012	152.0	<0.05	<0.1	<0.03	<0.02	700.0	4560.0	<0.35	<0.05	241.0	<0.0005	N/A	<0.1	3050.0	14.2
4/2013	144.0	<0.01	0.117	<0.006	<0.008	736.0	4430.0	<0.14	<0.02	233.0	<0.002	N/A	0.0163	3020.0	N/A
10/2013	90.8	<0.05	<0.1	<0.03	<0.02	702.0	6180.0	<0.35	<0.05	245.0	<0.0005	N/A	<0.1	3570.0	23.3
4/2014	145.0	<0.05	<0.1	<0.03	<0.02	691.0	4750.0	<0.35	<0.05	242.0	<0.002	N/A	<0.1	3660.0	N/A
10/2014	141.0	<0.05	<0.1	<0.03	<0.02	745.0	5540.0	<0.35	<0.05	219.0	<0.0005	N/A	<0.1	4840.0	N/A
4/2015	108.0	<0.05	<0.1	<0.03	<0.02	846.0	5500.0	<0.35	<0.05	250.0	<0.002	N/A	<0.1	3700.0	N/A
10/2015	150.0	<0.05	<0.1	<0.03	<0.02	741.0	5250.0	<0.35	<0.05	256.0	<0.0005	N/A	<0.1	3910.0	N/A
4/2016	124.0	<0.05	<0.1	<0.03	<0.02	759.0	N/A	<0.35	<0.05	264.0	<0.0005	N/A	<0.1	3730.0	N/A
10/2016	117.0	<0.05	<0.1	<0.03	<0.02	770.0	4900.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	103.0	<0.05	<0.1	<0.03	<0.02	806.0	5040.0	<0.35	<0.05	209.0	<0.002	N/A	<0.1	3600.0	N/A
10/2017	81.5	<0.05	<0.1	<0.03	<0.02	771.0	5920.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	106.0	<0.05	<0.1	<0.03	<0.02	808.0	4160.0	<0.35	<0.05	215.0	<0.002	N/A	<0.1	3520.0	N/A
10/2018	129.0	<0.05	<0.1	<0.03	<0.02	819.0	5150.0	<0.35	<0.05	252.0	<0.0005	N/A	<0.1	2840.0	N/A
4/2019	N/A	0.0159	0.136	<0.004	<0.005	679.0	7670.0	0.0193	<0.01	177.0	<0.0002	N/A	<0.01	3230.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	913.0	5780.0	<0.2	<0.2	225.0	<0.0002	N/A	<0.2	3990.0	N/A
4/2020	N/A	0.0188	0.274	<0.004	<0.005	570.0	6800.0	0.0239	<0.01	180.0	<0.0002	N/A	<0.01	4020.0	17.5

Minimum	81.5000	0.0035	0.0100	0.0015	0.0005	567.0000	2530.0000	0.0050	0.0005	82.0000	0.0001		0.0025	2480.0000	0.0019
Maximum	195.0000	0.2500	5.0000	0.1000	0.1250	913.0000	7670.0000	0.2500	0.1250	310.0000	0.0010		0.2500	5600.0000	23.3000
Mean	137.6825	0.0218	0.1843	0.0095	0.0082	684.7442	4785.7143	0.0798	0.0161	231.3415	0.0008		0.0386	3482.9268	12.3497
Median	140.0000	0.0120	0.0500	0.0030	0.0020	653.0000	4825.0000	0.0350	0.0050	240.0000	0.0010		0.0320	3300.0000	15.2200
Std. Dev.	32.2192	0.0394	0.7553	0.0160	0.0199	80.1929	1136.2221	0.0714	0.0236	42.3495	0.0004		0.0377	618.0544	7.8473

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A2
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/1999	159.0	0.015	0.03	<0.003	<0.001	542.0	5230.0	<0.07	<0.01	249.0	<0.002	N/A	0.024	4480.0	N/A
4/2000	120.0	0.013	0.025	<0.003	<0.001	582.0	4800.0	<0.07	<0.01	225.0	<0.002	N/A	<0.02	4930.0	17.81
10/2000	83.8	0.015	0.025	<0.006	<0.004	516.0	5960.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	4870.0	N/A
4/2001	153.0	0.038	0.025	<0.006	<0.004	570.0	4740.0	<0.07	<0.01	195.0	<0.002	N/A	0.057	6020.0	N/A
10/2001	153.0	0.013	<0.02	<0.006	<0.004	594.0	4860.0	<0.07	<0.01	271.0	<0.002	N/A	0.02	4570.0	N/A
4/2002	161.0	0.024	0.025	<0.006	<0.004	587.0	4700.0	<0.07	<0.01	200.0	<0.002	N/A	0.032	6060.0	N/A
10/2002	110.0	0.019	<0.02	<0.006	<0.004	590.0	6000.0	<0.07	<0.01	230.0	<0.002	N/A	0.027	4500.0	N/A
4/2003	160.0	0.017	0.02	<0.006	<0.004	610.0	5100.0	<0.07	<0.01	200.0	<0.002	N/A	<0.02	5800.0	N/A
10/2003	120.0	0.018	0.02	<0.006	<0.004	580.0	5400.0	<0.07	<0.01	180.0	<0.002	N/A	0.024	6100.0	N/A
4/2004	180.0	0.023	<0.02	<0.006	<0.004	590.0	5000.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	5300.0	N/A
10/2004	69.0	0.017	<0.02	<0.006	<0.004	600.0	7500.0	<0.07	<0.01	210.0	<0.002	N/A	<0.02	4700.0	2.4
4/2005	160.0	0.015	<0.02	<0.006	<0.004	600.0	5200.0	<0.07	<0.01	260.0	<0.002	N/A	0.02	4500.0	27.6
10/2005	160.0	0.013	<0.02	<0.006	<0.004	590.0	5200.0	<0.07	<0.01	280.0	<0.002	N/A	0.028	4600.0	23.1
4/2006	160.0	0.022	<0.02	<0.006	<0.004	610.0	5600.0	<0.07	<0.01	170.0	<0.002	N/A	0.033	6900.0	17.89
10/2006	110.0	0.02	<0.02	<0.0075	<0.004	620.0	6200.0	<0.07	<0.01	250.0	<0.002	N/A	0.024	5700.0	0.0156
4/2007	150.0	0.019	<0.02	<0.006	<0.004	590.0	5500.0	<0.07	<0.01	260.0	<0.002	N/A	0.033	5000.0	23.9
10/2007	100.0	0.022	0.022	<0.006	<0.004	650.0	6600.0	<0.07	<0.01	230.0	<0.002	N/A	0.03	4500.0	N/A
4/2008	190.0	0.011	<0.02	<0.006	<0.004	570.0	5400.0	<0.07	<0.01	260.0	<0.002	N/A	0.019	4500.0	0.0026
10/2008	121.0	<0.5	<10.0	<0.2	<0.25	686.0	4390.0	<0.5	<0.25	<250.0	<0.001	N/A	<0.5	4330.0	0.0195
4/2009	187.0	<0.02	<0.02	<0.006	<0.004	621.0	3500.0	<0.07	<0.02	286.0	<0.002	N/A	<0.04	3690.0	21.49
10/2009	98.6	<0.02	<0.2	<0.016	<0.005	601.0	6770.0	<0.01	<0.01	252.0	<0.001	N/A	<0.02	4260.0	21.48
4/2010	220.0	<0.05	<0.02	<0.006	<0.004	570.0	5600.0	<0.01	<0.01	320.0	<0.002	N/A	<0.047	4600.0	20.56
10/2010	210.0	<0.05	<0.02	<0.006	<0.004	580.0	5800.0	<0.01	<0.01	290.0	<0.002	N/A	<0.047	4800.0	8.25
4/2011	210.0	<0.047	<0.02	<0.006	<0.004	610.0	6200.0	<0.01	<0.01	280.0	<0.002	N/A	<0.05	4900.0	N/A
10/2011	210.0	0.0085	<0.02	<0.006	<0.004	580.0	6600.0	<0.01	<0.001	290.0	<0.002	N/A	0.11	5000.0	N/A
4/2012	140.0	0.0055	0.018	<0.012	0.0017	670.0	7000.0	0.0069	<0.002	400.0	0.0001	N/A	0.0057	4900.0	N/A
10/2012	175.0	<0.05	<0.1	<0.03	<0.02	652.0	6290.0	<0.35	<0.05	314.0	<0.0005	N/A	<0.1	4950.0	18.2
4/2013	294.0	<0.01	<0.02	<0.006	<0.008	697.0	5850.0	<0.14	<0.02	334.0	<0.002	N/A	<0.01	4260.0	N/A
10/2013	106.0	<0.05	<0.1	<0.03	<0.02	684.0	7010.0	<0.35	<0.05	303.0	<0.0005	N/A	<0.1	5040.0	25.5
4/2014	233.0	<0.05	<0.1	<0.03	<0.02	686.0	6180.0	<0.35	<0.05	359.0	<0.002	N/A	<0.1	4900.0	N/A
10/2014	220.0	<0.05	<0.1	<0.03	<0.02	681.0	6160.0	<0.35	<0.05	365.0	<0.0005	N/A	<0.1	4730.0	N/A
4/2015	248.0	<0.05	<0.1	<0.03	<0.02	774.0	5780.0	<0.35	<0.05	391.0	<0.002	N/A	<0.1	4790.0	N/A
10/2015	230.0	<0.05	<0.1	<0.03	<0.02	703.0	6110.0	<0.35	<0.05	314.0	<0.0005	N/A	<0.1	5540.0	N/A
4/2016	242.0	<0.05	<0.1	<0.03	<0.02	672.0	N/A	<0.35	<0.05	284.0	<0.0005	N/A	<0.1	5580.0	N/A
10/2016	213.0	<0.05	<0.1	<0.03	<0.02	725.0	5880.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	77.5	<0.05	<0.1	<0.03	<0.02	882.0	6850.0	<0.35	<0.05	266.0	<0.002	N/A	<0.1	4730.0	N/A
10/2017	152.0	<0.05	<0.1	<0.03	<0.02	680.0	6270.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	225.0	<0.05	<0.1	<0.03	<0.02	705.0	5070.0	<0.35	<0.05	352.0	<0.002	N/A	<0.1	5020.0	N/A
10/2018	134.0	<0.05	<0.1	<0.03	<0.02	698.0	6840.0	<0.35	<0.05	272.0	<0.0005	N/A	<0.1	4000.0	N/A
4/2019	N/A	0.0171	0.12	<0.004	<0.005	806.0	6570.0	0.0988	<0.01	212.0	<0.0002	N/A	<0.01	4230.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	871.0	7700.0	<0.2	<0.2	236.0	<0.0002	N/A	<0.2	4740.0	N/A
4/2020	N/A	0.0187	0.0418	<0.004	<0.005	576.0	7200.0	0.0105	<0.01	193.0	<0.0002	N/A	<0.01	4910.0	20.9

Minimum	69.0000	0.0050	0.0100	0.0015	0.0005	516.0000	3500.0000	0.0050	0.0005	125.0000	0.0001		0.0050	3690.0000	0.0026
Maximum	294.0000	0.2500	5.0000	0.1000	0.1250	882.0000	7700.0000	0.2500	0.1250	400.0000	0.0010		0.2500	6900.0000	27.6000
Mean	163.6805	0.0256	0.1450	0.0094	0.0081	638.0455	5838.1395	0.0772	0.0154	259.6667	0.0008		0.0373	4941.4286	15.5699
Median	160.0000	0.0220	0.0250	0.0030	0.0020	610.0000	5850.0000	0.0350	0.0050	260.0000	0.0010		0.0270	4885.0000	19.3800
Std. Dev.	52.7106	0.0354	0.7494	0.0158	0.0196	82.6072	886.3442	0.0713	0.0234	62.3494	0.0004		0.0400	624.6231	9.8764

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A3
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/2003	150.0	<0.01	0.034	<0.006	<0.004	580.0	2500.0	<0.07	<0.01	220.0	<0.002	N/A	<0.02	2300.0	N/A
4/2004	160.0	<0.01	0.024	<0.006	<0.004	640.0	2600.0	<0.07	<0.01	260.0	<0.002	N/A	<0.02	2100.0	N/A
10/2004	150.0	<0.01	0.024	<0.006	<0.004	590.0	2600.0	<0.07	<0.01	220.0	<0.002	N/A	<0.02	2400.0	1.384
4/2005	160.0	<0.01	0.026	<0.006	<0.004	620.0	2400.0	<0.07	<0.01	250.0	<0.002	N/A	<0.02	2100.0	15.9
10/2005	150.0	<0.01	0.02	<0.006	<0.004	630.0	2700.0	<0.07	<0.01	260.0	<0.002	N/A	<0.02	2200.0	11.8
4/2006	140.0	<0.01	0.029	<0.006	<0.004	640.0	3000.0	<0.07	<0.01	250.0	<0.002	N/A	<0.02	2200.0	9.9
10/2006	150.0	<0.01	0.022	<0.0075	<0.004	590.0	2800.0	<0.07	<0.01	230.0	<0.002	N/A	<0.02	2300.0	0.0137
4/2007	150.0	<0.01	0.032	<0.006	<0.004	590.0	2600.0	<0.07	<0.01	270.0	<0.002	N/A	<0.02	2100.0	14.5
10/2007	130.0	<0.01	0.021	<0.006	<0.004	610.0	2800.0	<0.07	<0.01	240.0	<0.002	N/A	<0.02	2200.0	N/A
4/2008	150.0	<0.01	0.024	<0.006	<0.004	590.0	2800.0	<0.07	<0.01	230.0	<0.002	N/A	<0.0070	2200.0	0.0014
10/2008	110.0	<0.5	<10.0	<0.2	<0.25	689.0	2520.0	<0.5	<0.25	250.0	<0.001	N/A	<0.5	1870.0	0.0141
4/2009	133.0	<0.02	<0.02	<0.006	<0.004	624.0	1660.0	<0.07	<0.02	231.0	<0.002	N/A	<0.04	1970.0	12.78
10/2009	148.0	<0.02	<0.2	<0.004	<0.005	601.0	2670.0	<0.01	<0.01	238.0	<0.001	N/A	<0.02	1850.0	13.07
4/2010	190.0	<0.05	0.021	<0.006	<0.004	580.0	3100.0	<0.01	<0.01	250.0	<0.002	N/A	<0.047	2300.0	13.58
10/2010	160.0	<0.05	<0.02	<0.006	<0.004	600.0	3300.0	<0.01	<0.01	240.0	<0.002	N/A	<0.047	2400.0	6.92
4/2011	160.0	<0.047	0.024	<0.006	<0.004	590.0	3000.0	<0.01	<0.01	230.0	<0.002	N/A	<0.05	2200.0	N/A
10/2011	180.0	0.0068	<0.02	<0.006	<0.004	600.0	3100.0	<0.01	0.0021	240.0	<0.002	N/A	<0.005	2300.0	N/A
4/2012	160.0	0.0051	0.015	<0.012	0.0016	640.0	3200.0	0.0016	<0.002	280.0	0.0001	N/A	0.003	2300.0	N/A
10/2012	177.0	<0.05	<0.1	<0.03	<0.02	653.0	2650.0	<0.35	<0.05	254.0	<0.0005	N/A	<0.1	2180.0	10.4
4/2013	299.0	<0.01	0.0244	<0.006	<0.008	682.0	2730.0	<0.14	<0.02	246.0	<0.002	N/A	<0.01	2130.0	N/A
10/2013	154.0	<0.05	<0.1	<0.03	<0.02	585.0	2960.0	<0.35	<0.05	208.0	<0.0005	N/A	<0.1	2320.0	13.4
4/2014	197.0	<0.05	<0.1	<0.03	<0.02	590.0	2810.0	<0.35	<0.05	206.0	<0.002	N/A	<0.1	2640.0	N/A
10/2014	181.0	<0.05	<0.1	<0.03	<0.02	3270.0	3160.0	<0.35	<0.05	1360.0	<0.0005	N/A	<0.1	884.0	N/A
4/2015	205.0	<0.05	<0.1	<0.03	<0.02	671.0	3090.0	<0.35	<0.05	259.0	<0.002	N/A	<0.1	2400.0	N/A
10/2015	169.0	<0.05	<0.1	<0.03	<0.02	689.0	3150.0	<0.35	<0.05	266.0	<0.0005	N/A	<0.1	2390.0	N/A
4/2016	168.0	<0.05	<0.1	<0.03	<0.02	637.0	N/A	<0.35	<0.05	229.0	<0.0005	N/A	<0.1	2580.0	N/A
10/2016	170.0	<0.05	<0.1	<0.03	<0.02	720.0	2990.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	92.0	<0.05	<0.1	<0.03	<0.02	699.0	3020.0	<0.35	<0.05	288.0	<0.002	N/A	<0.1	2310.0	N/A
10/2017	178.0	<0.05	<0.1	<0.03	<0.02	690.0	3020.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	196.0	<0.05	<0.1	<0.03	<0.02	664.0	2590.0	<0.35	<0.05	253.0	<0.002	N/A	<0.1	2590.0	N/A
10/2018	177.0	<0.05	<0.1	<0.03	<0.02	708.0	2960.0	<0.35	<0.05	269.0	<0.0005	N/A	<0.1	2060.0	N/A
4/2019	N/A	0.014	0.0218	<0.004	<0.005	697.0	4580.0	<0.01	<0.01	317.0	<0.0002	N/A	<0.01	2090.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	635.0	4060.0	<0.2	<0.2	243.0	<0.0002	N/A	<0.2	2610.0	N/A
4/2020	N/A	0.0138	0.0372	<0.004	<0.005	506.0	3180.0	<0.01	<0.01	232.0	<0.0002	N/A	<0.01	1440.0	12.9

Minimum	92.0000	0.0050	0.0100	0.0020	0.0016	506.0000	1660.0000	0.0016	0.0010	206.0000	0.0001		0.0025	884.0000	0.0014
Maximum	299.0000	0.2500	5.0000	0.1000	0.1250	3270.0000	4580.0000	0.2500	0.1250	1360.0000	0.0010		0.2500	2640.0000	15.9000
Mean	164.1875	0.0241	0.1790	0.0110	0.0097	706.5714	2905.8824	0.0850	0.0181	281.4848	0.0007		0.0336	2179.2121	9.1042
Median	160.0000	0.0140	0.0340	0.0030	0.0025	630.0000	2885.0000	0.0350	0.0050	250.0000	0.0010		0.0200	2200.0000	11.8000
Std. Dev.	34.2057	0.0429	0.8391	0.0174	0.0218	448.5272	481.3499	0.0780	0.0256	194.9582	0.0004		0.0442	334.3508	5.8524

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A4
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2006	160.0	<0.01	0.03	<0.006	<0.004	570.0	2700.0	<0.07	<0.01	260.0	<0.002	N/A	<0.02	2500.0	10.28
10/2006	200.0	<0.01	0.033	<0.0075	<0.004	560.0	3000.0	<0.07	<0.01	280.0	<0.002	N/A	<0.02	2500.0	0.0142
4/2007	190.0	0.022	0.17	<0.006	<0.004	590.0	3000.0	<0.07	0.011	290.0	<0.002	N/A	0.022	2600.0	15.4
10/2007	210.0	0.019	0.027	<0.006	<0.004	630.0	3300.0	<0.07	<0.01	320.0	<0.002	N/A	<0.02	2900.0	N/A
4/2008	210.0	0.018	0.029	<0.006	<0.004	570.0	3400.0	<0.07	<0.01	300.0	<0.002	N/A	<0.0070	2700.0	0.0016
10/2008	167.0	<0.5	<10.0	<0.2	<0.25	652.0	2520.0	<0.5	<0.25	313.0	<0.001	N/A	<0.5	2290.0	0.0162
4/2009	173.0	<0.02	0.0206	<0.006	<0.004	614.0	2280.0	<0.07	<0.02	306.0	<0.002	N/A	<0.04	2350.0	19.08
10/2009	212.0	<0.02	<0.2	<0.004	<0.005	563.0	3090.0	<0.01	<0.01	303.0	<0.001	N/A	<0.02	2310.0	14.51
4/2010	180.0	<0.05	0.02	<0.006	<0.004	550.0	3300.0	<0.01	<0.01	290.0	<0.002	N/A	<0.047	2800.0	14.73
10/2010	200.0	<0.05	0.022	<0.006	<0.004	580.0	3800.0	<0.01	<0.01	310.0	<0.002	N/A	<0.047	3000.0	7.5
4/2011	210.0	<0.047	0.02	<0.006	<0.004	550.0	3500.0	<0.01	<0.01	290.0	<0.002	N/A	<0.05	2800.0	N/A
10/2011	210.0	<0.0047	<0.02	<0.006	<0.004	580.0	3800.0	<0.01	<0.001	320.0	<0.002	N/A	<0.005	2900.0	N/A
4/2012	200.0	0.014	0.021	<0.012	0.0022	630.0	3800.0	0.0026	<0.002	370.0	0.0001	N/A	0.0052	3000.0	N/A
10/2012	201.0	<0.05	<0.1	<0.03	<0.02	612.0	3270.0	<0.35	<0.05	318.0	<0.0005	N/A	<0.1	2600.0	12.1
4/2013	192.0	<0.01	0.0201	<0.006	<0.008	681.0	3810.0	<0.14	<0.02	313.0	<0.002	N/A	<0.01	2740.0	N/A
10/2013	198.0	<0.05	<0.1	<0.03	<0.02	650.0	3810.0	<0.35	<0.05	322.0	<0.0005	N/A	<0.1	2940.0	15.4
4/2014	214.0	<0.05	<0.1	<0.03	<0.02	642.0	3580.0	<0.35	<0.05	337.0	<0.002	N/A	<0.1	2890.0	N/A
10/2014	210.0	<0.05	<0.1	<0.03	<0.02	630.0	3770.0	<0.35	<0.05	309.0	<0.0005	N/A	<0.1	2770.0	N/A
4/2015	180.0	<0.05	<0.1	<0.03	<0.02	704.0	3690.0	<0.35	<0.05	359.0	<0.002	N/A	<0.1	3060.0	N/A
10/2015	211.0	<0.05	<0.1	<0.03	<0.02	687.0	3880.0	<0.35	<0.05	346.0	<0.0005	N/A	<0.1	3140.0	N/A
4/2016	196.0	<0.05	<0.1	<0.03	<0.02	666.0	N/A	<0.35	<0.05	343.0	<0.0005	N/A	<0.1	2900.0	N/A
10/2016	188.0	<0.05	<0.1	<0.03	<0.02	688.0	4030.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	124.0	<0.05	<0.1	<0.03	<0.02	673.0	3860.0	<0.35	<0.05	350.0	<0.002	N/A	<0.1	3260.0	N/A
10/2017	179.0	<0.05	<0.1	<0.03	<0.02	748.0	3810.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	191.0	<0.05	<0.1	<0.03	<0.02	668.0	3550.0	<0.35	<0.05	349.0	<0.002	N/A	<0.1	3000.0	N/A
10/2018	194.0	<0.05	<0.1	<0.03	<0.02	727.0	4040.0	<0.35	<0.05	359.0	<0.0005	N/A	<0.1	2500.0	N/A
4/2019	N/A	0.0143	0.0181	<0.004	<0.005	706.0	6930.0	<0.01	<0.01	392.0	<0.0002	N/A	<0.01	3160.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	613.0	6030.0	<0.2	<0.2	302.0	<0.0002	N/A	<0.2	2980.0	N/A
4/2020	N/A	0.0124	0.023	<0.004	<0.005	605.0	5720.0	<0.01	<0.01	328.0	<0.0002	N/A	<0.01	3040.0	20.6

Minimum	124.0000	0.0024	0.0100	0.0020	0.0020	550.0000	2280.0000	0.0026	0.0005	260.0000	0.0001		0.0025	2290.0000	0.0016
Maximum	214.0000	0.2500	5.0000	0.1000	0.1250	748.0000	6930.0000	0.2500	0.1250	392.0000	0.0010		0.2500	3260.0000	20.6000
Mean	192.3077	0.0297	0.2160	0.0126	0.0113	632.3793	3759.6429	0.0954	0.0209	321.4444	0.0006		0.0390	2801.1111	10.8027
Median	197.0000	0.0250	0.0500	0.0060	0.0040	630.0000	3730.0000	0.0700	0.0110	318.0000	0.0010		0.0250	2890.0000	13.3050
Std. Dev.	20.3013	0.0456	0.9207	0.0187	0.0237	55.6567	993.1077	0.0820	0.0274	30.0030	0.0004		0.0469	267.4140	7.3744

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A5
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/2008	399.0	<0.5	<10.0	<0.2	<0.25	765.0	3350.0	<0.5	<0.25	410.0	<0.001	N/A	<0.5	2770.0	0.0215
4/2009	514.0	<0.02	0.0637	<0.006	<0.004	722.0	3760.0	<0.07	<0.02	435.0	<0.002	N/A	<0.04	2970.0	14.51
10/2009	518.0	<0.02	<0.2	<0.004	<0.005	660.0	4860.0	<0.01	<0.01	406.0	<0.001	N/A	<0.02	2790.0	18.29
4/2010	590.0	<0.05	0.12	<0.006	<0.004	700.0	5400.0	0.033	<0.01	500.0	<0.002	N/A	<0.047	3700.0	19.53
10/2010	540.0	<0.05	0.065	<0.006	<0.004	690.0	5000.0	0.012	<0.01	440.0	<0.002	N/A	<0.047	3700.0	8.11
4/2011	550.0	<0.047	0.25	<0.006	<0.004	660.0	5100.0	0.066	0.012	410.0	<0.002	N/A	<0.05	3300.0	N/A
10/2011	550.0	0.015	0.029	<0.006	<0.004	700.0	5300.0	<0.01	<0.001	450.0	<0.002	N/A	0.0064	3500.0	N/A
4/2012	580.0	0.0057	0.045	<0.012	0.0024	720.0	6000.0	0.0086	0.0017	490.0	0.0001	N/A	<0.01	3500.0	N/A
10/2012	553.0	<0.05	0.107	<0.03	<0.02	790.0	4920.0	<0.35	<0.05	477.0	<0.0005	N/A	<0.1	3300.0	14.9
4/2013	724.0	<0.01	0.0228	<0.006	<0.016	909.0	5920.0	<0.28	<0.04	517.0	<0.002	N/A	<0.01	3740.0	N/A
10/2013	480.0	<0.05	<0.1	<0.03	<0.02	811.0	5930.0	<0.35	<0.05	519.0	<0.0005	N/A	<0.1	3690.0	21.8
4/2014	605.0	<0.05	<0.1	<0.03	<0.02	839.0	5790.0	<0.35	<0.05	534.0	<0.002	N/A	<0.1	4110.0	N/A
10/2014	590.0	<0.05	<0.1	<0.03	<0.02	837.0	5470.0	<0.35	<0.05	532.0	<0.0005	N/A	<0.1	3660.0	N/A
4/2015	645.0	<0.05	0.202	<0.03	<0.02	910.0	6190.0	<0.35	<0.05	584.0	<0.002	N/A	<0.1	4060.0	N/A
10/2015	585.0	<0.05	<0.1	<0.03	<0.02	954.0	9480.0	<0.35	<0.05	591.0	<0.0005	N/A	<0.1	6010.0	N/A
4/2016	555.0	<0.05	0.156	<0.03	<0.02	903.0	N/A	<0.35	<0.05	556.0	<0.0005	N/A	<0.1	6130.0	N/A
10/2016	527.0	<0.05	<0.1	<0.03	<0.02	959.0	10100.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	433.0	<0.05	<0.1	<0.03	<0.02	913.0	9650.0	<0.35	<0.05	547.0	<0.002	N/A	<0.1	7270.0	N/A
10/2017	500.0	0.131	0.811	<0.03	<0.02	1090.0	9890.0	<0.35	0.0736	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	538.0	<0.05	<0.1	<0.03	<0.02	889.0	6410.0	<0.35	<0.05	542.0	<0.002	N/A	<0.1	5710.0	N/A
10/2018	509.0	<0.05	<0.1	<0.03	<0.02	969.0	10000.0	<0.35	<0.05	554.0	<0.0005	N/A	<0.1	4390.0	N/A
4/2019	N/A	0.0167	0.148	<0.004	<0.005	861.0	16000.0	0.0112	<0.01	582.0	<0.0002	N/A	0.0164	6180.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	756.0	13400.0	<0.2	<0.2	432.0	<0.0002	N/A	<0.2	5870.0	N/A
4/2020	N/A	0.0163	0.0492	<0.004	<0.005	679.0	11100.0	<0.01	<0.01	433.0	<0.0002	N/A	0.0187	5790.0	N/A

Minimum	399.0000	0.0050	0.0228	0.0020	0.0020	660.0000	3350.0000	0.0050	0.0005	406.0000	0.0001		0.0050	2770.0000	0.0215
Maximum	724.0000	0.2500	5.0000	0.1000	0.1250	1090.0000	16000.0000	0.2500	0.1250	591.0000	0.0010		0.2500	7270.0000	21.8000
Mean	546.9048	0.0378	0.3195	0.0146	0.0135	820.2500	7348.6957	0.1155	0.0268	497.3182	0.0006		0.0460	4370.0000	13.8802
Median	550.0000	0.0250	0.0569	0.0150	0.0100	824.0000	5930.0000	0.1750	0.0250	508.5000	0.0004		0.0500	3720.0000	14.9000
Std. Dev.	69.3353	0.0532	1.0095	0.0201	0.0256	117.1240	3233.4548	0.0799	0.0306	61.6676	0.0004		0.0488	1323.4263	7.5375

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A6
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2012	340.0	0.016	0.054	<0.012	0.0028	1000.0	6900.0	0.0028	<0.002	570.0	0.0001	N/A	<0.01	3800.0	N/A
10/2012	257.0	<0.05	<0.1	<0.03	<0.02	1020.0	6630.0	<0.35	<0.05	574.0	<0.0005	N/A	<0.1	3450.0	16.9
4/2013	324.0	<0.01	0.0732	<0.006	<0.016	1120.0	6980.0	<0.28	<0.04	508.0	<0.002	N/A	<0.01	3420.0	N/A
10/2013	304.0	<0.05	<0.1	<0.03	<0.02	970.0	6680.0	<0.35	<0.05	498.0	<0.0005	N/A	<0.1	3660.0	22.1
4/2014	361.0	<0.05	0.144	<0.03	0.0235	1030.0	6950.0	<0.35	<0.05	547.0	<0.002	N/A	<0.1	3740.0	N/A
10/2014	370.0	<0.05	<0.1	<0.03	<0.02	1040.0	6880.0	<0.35	<0.05	555.0	<0.0005	N/A	<0.1	3700.0	N/A
4/2015	353.0	<0.05	0.104	<0.03	<0.02	1100.0	6820.0	<0.35	<0.05	569.0	<0.002	N/A	<0.1	3760.0	N/A
10/2015	375.0	<0.05	<0.1	<0.03	<0.02	1070.0	6810.0	<0.35	<0.05	556.0	<0.0005	N/A	<0.1	3820.0	N/A
4/2016	328.0	0.0512	0.19	<0.03	<0.02	1120.0	N/A	<0.35	<0.05	612.0	<0.0005	N/A	<0.1	3720.0	N/A
10/2016	304.0	<0.05	<0.1	<0.03	<0.02	1130.0	6720.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	310.0	<0.05	<0.1	<0.03	<0.02	1130.0	6310.0	<0.35	<0.05	605.0	<0.002	N/A	<0.1	3950.0	N/A
10/2017	201.0	<0.05	<0.1	<0.03	<0.02	1060.0	6560.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	248.0	<0.05	<0.1	<0.03	<0.02	1020.0	5760.0	<0.35	<0.05	548.0	<0.002	N/A	<0.1	3350.0	N/A
10/2018	258.0	<0.05	<0.1	<0.03	<0.02	1070.0	6850.0	<0.35	<0.05	578.0	<0.0005	N/A	<0.1	3210.0	N/A
4/2019	N/A	0.0126	0.0154	<0.004	<0.005	891.0	7150.0	<0.01	<0.01	519.0	<0.0002	N/A	<0.01	3750.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1130.0	8090.0	<0.2	<0.2	599.0	<0.0002	N/A	<0.2	3870.0	N/A
4/2020	N/A	0.0174	0.0449	<0.004	0.005	908.0	7250.0	0.0118	<0.01	554.0	<0.0002	N/A	<0.01	3350.0	22.0
Minimum	201.0000	0.0050	0.0154	0.0020	0.0025	891.0000	5760.0000	0.0028	0.0010	498.0000	0.0001		0.0050	3210.0000	16.9000
Maximum	375.0000	0.1000	0.1900	0.0400	0.0500	1130.0000	8090.0000	0.1750	0.1000	612.0000	0.0010		0.1000	3950.0000	22.1000
Mean	309.5000	0.0281	0.0691	0.0137	0.0119	1047.5882	6833.7500	0.1388	0.0254	559.4667	0.0004		0.0424	3636.6667	20.3333
Median	317.0000	0.0250	0.0500	0.0150	0.0100	1060.0000	6835.0000	0.1750	0.0250	556.0000	0.0003		0.0500	3720.0000	22.0000
Std. Dev.	51.8886	0.0207	0.0429	0.0085	0.0108	74.5596	481.2605	0.0660	0.0210	33.3442	0.0004		0.0245	222.2183	2.9738

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A7
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/2013	258.0	<0.05	<0.1	<0.03	<0.02	1050.0	7740.0	<0.35	<0.05	392.0	<0.0005	N/A	<0.1	4400.0	23.9
4/2015	231.0	<0.05	<0.1	<0.03	<0.02	1200.0	8100.0	<0.35	<0.05	422.0	<0.002	N/A	<0.1	4790.0	N/A
10/2015	245.0	<0.05	<0.1	<0.03	<0.02	1170.0	8360.0	<0.35	<0.05	417.0	<0.0005	N/A	<0.1	4800.0	N/A
4/2016	214.0	<0.05	<0.1	<0.03	<0.02	1160.0	N/A	<0.35	<0.05	416.0	<0.0005	N/A	<0.1	4610.0	N/A
10/2016	178.0	<0.05	<0.1	<0.03	<0.02	1230.0	7970.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	170.0	<0.05	<0.1	<0.03	<0.02	1130.0	7840.0	<0.35	<0.05	375.0	<0.002	N/A	<0.1	4620.0	N/A
10/2017	175.0	<0.05	0.14	<0.03	<0.02	1100.0	7950.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	231.0	<0.05	<0.1	<0.03	<0.02	1180.0	7480.0	<0.35	<0.05	439.0	<0.002	N/A	<0.1	4480.0	N/A
10/2018	124.0	<0.05	<0.1	<0.03	<0.02	1230.0	7950.0	<0.35	<0.05	391.0	<0.0005	N/A	<0.1	3670.0	N/A
4/2019	N/A	0.0145	0.0502	<0.004	<0.005	916.0	7670.0	0.0106	<0.01	345.0	<0.0002	N/A	<0.01	4250.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1230.0	9740.0	<0.2	<0.2	433.0	<0.0002	N/A	<0.2	4400.0	N/A
4/2020	N/A	0.0122	0.0287	<0.004	<0.005	907.0	8560.0	<0.01	<0.01	373.0	<0.0002	N/A	<0.01	3600.0	24.9

Minimum	124.0000	0.0122	0.0287	0.0020	0.0025	907.0000	7480.0000	0.0050	0.0050	345.0000	0.0001		0.0050	3600.0000	23.9000
Maximum	258.0000	0.1000	0.1400	0.0400	0.0500	1230.0000	9740.0000	0.1750	0.1000	439.0000	0.0010		0.1000	4800.0000	24.9000
Mean	202.8889	0.0293	0.0599	0.0149	0.0121	1125.2500	8123.6364	0.1409	0.0279	400.3000	0.0004		0.0467	4362.0000	24.4000
Median	214.0000	0.0250	0.0500	0.0150	0.0100	1165.0000	7950.0000	0.1750	0.0250	404.0000	0.0003		0.0500	4440.0000	24.4000
Std. Dev.	43.6132	0.0227	0.0300	0.0094	0.0123	113.7998	615.7154	0.0658	0.0240	30.1148	0.0004		0.0242	420.5763	0.7071

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A8
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2013	456.0	0.0533	2.83	0.0068	<0.02	1140.0	10300.0	<0.35	0.1	392.0	<0.002	N/A	<0.01	5880.0	N/A
10/2013	688.0	<0.05	<0.1	<0.03	<0.02	1080.0	12200.0	<0.35	<0.05	509.0	<0.0005	N/A	<0.1	7170.0	34.8
4/2014	503.0	<0.05	<0.1	<0.03	<0.02	1090.0	12300.0	<0.35	<0.05	530.0	<0.002	N/A	<0.1	7510.0	N/A
10/2015	431.0	<0.05	<0.1	<0.03	<0.02	1230.0	11300.0	<0.35	<0.05	580.0	<0.0005	N/A	<0.1	7120.0	N/A
4/2016	N/A	<0.05	<0.1	<0.03	<0.02	1170.0	N/A	<0.35	<0.05	578.0	<0.0005	N/A	<0.1	6690.0	N/A
10/2016	431.0	<0.05	<0.1	<0.03	<0.02	1270.0	11400.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	N/A	<0.05	<0.1	<0.03	<0.02	1220.0	N/A	<0.35	<0.05	505.0	<0.002	N/A	<0.1	6790.0	N/A
4/2019	N/A	<0.05	0.0564	<0.02	<0.025	1230.0	11600.0	0.054	<0.05	611.0	<0.0002	N/A	<0.05	6040.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1380.0	14500.0	<0.2	<0.2	655.0	<0.0002	N/A	<0.2	6620.0	N/A
4/2020	N/A	<0.01	0.0626	<0.004	<0.005	1370.0	13300.0	0.0249	<0.01	652.0	<0.0002	N/A	<0.01	5840.0	33.9

Minimum	431.0000	0.0050	0.0500	0.0020	0.0025	1080.0000	10300.0000	0.0249	0.0050	392.0000	0.0001		0.0050	5840.0000	33.9000
Maximum	688.0000	0.1000	2.8300	0.0400	0.0500	1380.0000	14500.0000	0.1750	0.1000	655.0000	0.0010		0.1000	7510.0000	34.8000
Mean	501.8000	0.0333	0.3349	0.0149	0.0135	1218.0000	12112.5000	0.1404	0.0380	556.8889	0.0004		0.0435	6628.8889	34.3500
Median	456.0000	0.0250	0.0500	0.0150	0.0100	1225.0000	11900.0000	0.1750	0.0250	578.0000	0.0003		0.0500	6690.0000	34.3500
Std. Dev.	108.1605	0.0261	0.8768	0.0099	0.0131	103.3656	1302.1274	0.0585	0.0333	83.2743	0.0004		0.0274	598.9667	0.6364

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A10
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2014	75.0	<0.05	<0.1	<0.03	<0.02	647.0	5350.0	<0.35	<0.05	108.0	<0.002	N/A	<0.1	4390.0	N/A
10/2014	47.1	<0.05	<0.1	<0.03	<0.02	656.0	8040.0	<0.35	<0.05	102.0	<0.0005	N/A	<0.1	5970.0	N/A
4/2015	74.2	<0.05	<0.1	<0.03	<0.02	664.0	5740.0	<0.35	<0.05	98.0	<0.002	N/A	<0.1	5380.0	N/A
10/2015	77.2	<0.05	<0.1	<0.03	<0.02	644.0	5380.0	<0.35	<0.05	93.9	<0.0005	N/A	<0.1	6060.0	N/A
4/2016	57.5	<0.05	<0.1	<0.03	<0.02	667.0	N/A	<0.35	<0.05	104.0	<0.0005	N/A	<0.1	5670.0	N/A
10/2016	42.9	<0.05	<0.1	<0.03	<0.02	648.0	7290.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	53.5	<0.05	<0.1	<0.03	<0.02	641.0	5880.0	<0.35	<0.05	107.0	<0.002	N/A	<0.1	5430.0	N/A
10/2017	50.5	<0.05	<0.1	<0.03	<0.02	639.0	5640.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	57.7	<0.05	<0.1	<0.03	<0.02	631.0	5540.0	<0.35	<0.05	96.8	<0.002	N/A	<0.1	5740.0	N/A
10/2018	57.3	<0.05	<0.1	<0.03	<0.02	645.0	4890.0	<0.35	<0.05	113.0	<0.0005	N/A	<0.1	3030.0	N/A
4/2019	N/A	<0.05	<0.05	<0.02	<0.025	607.0	8480.0	<0.05	<0.05	95.5	<0.0002	N/A	0.0514	5860.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	481.0	10600.0	<0.2	<0.2	74.8	<0.0002	N/A	<0.2	4940.0	N/A
4/2020	N/A	0.016	0.0182	<0.004	<0.005	530.0	4860.0	<0.01	<0.01	90.5	<0.0002	N/A	0.0679	5760.0	26.6

Minimum	42.9000	0.0160	0.0182	0.0020	0.0025	481.0000	4860.0000	0.0050	0.0050	74.8000	0.0001		0.0500	3030.0000	26.6000
Maximum	77.2000	0.1000	0.1000	0.0400	0.0500	667.0000	10600.0000	0.1750	0.1000	113.0000	0.0010		0.1000	6060.0000	26.6000
Mean	59.2900	0.0301	0.0495	0.0155	0.0127	623.0769	6474.1667	0.1446	0.0292	98.5000	0.0004		0.0553	5293.6364	26.6000
Median	57.4000	0.0250	0.0500	0.0150	0.0100	644.0000	5690.0000	0.1750	0.0250	98.0000	0.0003		0.0500	5670.0000	26.6000
Std. Dev.	12.1454	0.0212	0.0186	0.0082	0.0114	55.1852	1763.2586	0.0613	0.0220	10.3646	0.0004		0.0143	895.3019	

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A11
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2014	184.0	<0.05	<0.1	<0.03	<0.02	627.0	2670.0	<0.35	<0.05	355.0	<0.002	N/A	<0.1	2140.0	N/A
10/2014	181.0	<0.05	<0.1	<0.03	<0.02	628.0	2920.0	<0.35	<0.05	384.0	<0.0005	N/A	<0.1	2130.0	N/A
4/2015	192.0	<0.05	<0.1	<0.03	<0.02	669.0	2850.0	<0.35	<0.05	412.0	<0.002	N/A	<0.1	2360.0	N/A
10/2015	225.0	<0.05	<0.1	<0.03	<0.02	661.0	3050.0	<0.35	<0.05	437.0	<0.0005	N/A	<0.1	2450.0	N/A
4/2016	195.0	<0.05	<0.1	<0.03	<0.02	646.0	2930.0	<0.35	<0.05	462.0	<0.0005	N/A	<0.1	2280.0	N/A
10/2016	180.0	<0.05	<0.1	<0.03	<0.02	615.0	2870.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	185.0	<0.05	<0.1	<0.03	<0.02	682.0	2600.0	<0.35	<0.05	449.0	<0.002	N/A	<0.1	2260.0	N/A
10/2017	181.0	<0.05	<0.1	<0.03	<0.02	646.0	2740.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	201.0	<0.05	<0.1	<0.03	<0.02	683.0	2540.0	<0.35	<0.05	454.0	<0.002	N/A	<0.1	2150.0	N/A
10/2018	203.0	<0.05	<0.1	<0.03	<0.02	639.0	2680.0	<0.35	<0.05	439.0	<0.0005	N/A	<0.1	1880.0	N/A
4/2019	N/A	<0.01	0.0134	<0.004	<0.005	479.0	2950.0	<0.01	<0.01	397.0	<0.0002	N/A	0.0407	2180.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	561.0	3410.0	<0.2	<0.2	398.0	<0.0002	N/A	<0.2	1880.0	N/A
4/2020	N/A	<0.01	0.0163	<0.004	<0.005	492.0	2570.0	<0.01	<0.01	411.0	<0.0002	N/A	0.0368	1970.0	13.1

Minimum	180.0000	0.0050	0.0134	0.0020	0.0025	479.0000	2540.0000	0.0050	0.0050	355.0000	0.0001		0.0368	1880.0000	13.1000
Maximum	225.0000	0.1000	0.1000	0.0400	0.0500	683.0000	3410.0000	0.1750	0.1000	462.0000	0.0010		0.1000	2450.0000	13.1000
Mean	192.7000	0.0277	0.0484	0.0149	0.0119	617.5385	2829.2308	0.1431	0.0277	418.0000	0.0004		0.0521	2152.7273	13.1000
Median	188.5000	0.0250	0.0500	0.0150	0.0100	639.0000	2850.0000	0.1750	0.0250	412.0000	0.0003		0.0500	2150.0000	13.1000
Std. Dev.	14.1189	0.0230	0.0203	0.0090	0.0118	66.7166	238.0638	0.0647	0.0230	33.2355	0.0004		0.0150	185.0995	

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A13A
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2014	231.0	<0.05	<0.1	<0.03	<0.02	609.0	814.0	<0.35	<0.05	229.0	<0.002	N/A	<0.1	715.0	N/A
10/2014	267.0	<0.05	<0.1	<0.03	<0.02	663.0	698.0	<0.35	<0.05	244.0	<0.0005	N/A	<0.1	620.0	N/A
4/2015	306.0	<0.05	0.154	<0.03	<0.02	663.0	751.0	<0.35	<0.05	251.0	<0.002	N/A	<0.1	685.0	N/A
10/2015	346.0	<0.05	0.167	<0.03	<0.02	632.0	799.0	<0.35	<0.05	238.0	<0.0005	N/A	<0.1	663.0	N/A
4/2016	321.0	<0.05	0.13	<0.03	<0.02	663.0	822.0	<0.35	<0.05	257.0	<0.0005	N/A	<0.1	664.0	N/A
10/2016	372.0	<0.05	<0.1	<0.03	<0.02	628.0	767.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	307.0	<0.05	0.11	<0.03	<0.02	678.0	785.0	<0.35	<0.05	258.0	<0.002	N/A	<0.1	735.0	N/A
10/2017	358.0	<0.05	<0.1	<0.03	<0.02	636.0	779.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	353.0	<0.05	<0.1	<0.03	<0.02	638.0	1020.0	<0.35	<0.05	253.0	<0.002	N/A	<0.1	709.0	N/A
10/2018	383.0	<0.05	<0.1	<0.03	<0.02	663.0	761.0	<0.35	<0.05	277.0	<0.0005	N/A	<0.1	722.0	N/A
4/2019	N/A	<0.01	0.0171	<0.004	<0.005	552.0	927.0	<0.01	<0.01	209.0	<0.0002	N/A	<0.01	498.0	N/A
10/2019	N/A	<0.01	0.0158	<0.004	<0.005	595.0	1210.0	<0.01	<0.01	220.0	<0.0002	N/A	<0.01	484.0	N/A
4/2020	N/A	<0.01	0.0473	<0.004	<0.005	548.0	885.0	0.0128	<0.01	222.0	<0.0002	N/A	<0.01	663.0	5.97

Minimum	231.0000	0.0050	0.0158	0.0020	0.0025	548.0000	698.0000	0.0050	0.0050	209.0000	0.0001		0.0050	484.0000	5.9700
Maximum	383.0000	0.0250	0.1670	0.0150	0.0100	678.0000	1210.0000	0.1750	0.0250	277.0000	0.0010		0.0500	735.0000	5.9700
Mean	324.4000	0.0204	0.0724	0.0120	0.0083	628.3077	847.5385	0.1364	0.0204	241.6364	0.0004		0.0396	650.7273	5.9700
Median	333.5000	0.0250	0.0500	0.0150	0.0100	636.0000	799.0000	0.1750	0.0250	244.0000	0.0003		0.0500	664.0000	5.9700
Std. Dev.	48.0560	0.0088	0.0502	0.0057	0.0033	42.0365	137.6097	0.0734	0.0088	20.1706	0.0004		0.0197	85.6902	

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A13B
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2014	738.0	<0.05	<0.1	<0.03	<0.02	585.0	2930.0	<0.35	<0.05	869.0	<0.002	N/A	<0.1	2520.0	N/A
10/2014	815.0	<0.05	<0.1	<0.03	<0.02	589.0	2850.0	<0.35	<0.05	890.0	<0.0005	N/A	<0.1	2460.0	N/A
4/2015	875.0	<0.05	<0.1	<0.03	<0.02	666.0	2800.0	<0.35	<0.05	779.0	<0.002	N/A	<0.1	2180.0	N/A
10/2015	860.0	<0.05	<0.1	<0.03	<0.02	632.0	2960.0	<0.35	<0.05	837.0	<0.0005	N/A	<0.1	2450.0	N/A
4/2016	818.0	<0.05	<0.1	<0.03	<0.02	603.0	2860.0	<0.35	<0.05	892.0	<0.0005	N/A	<0.1	2480.0	N/A
10/2016	827.0	<0.05	<0.1	<0.03	<0.02	598.0	2760.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	760.0	<0.05	<0.1	<0.03	<0.02	594.0	2500.0	<0.35	<0.05	809.0	<0.002	N/A	<0.1	2470.0	N/A
10/2017	885.0	<0.05	<0.1	<0.03	<0.02	616.0	2560.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	952.0	<0.05	<0.1	<0.03	<0.02	560.0	2600.0	<0.35	<0.05	729.0	<0.002	N/A	<0.1	2030.0	N/A
10/2018	868.0	<0.05	<0.1	<0.03	<0.02	651.0	2770.0	<0.35	<0.05	890.0	<0.0005	N/A	<0.1	2040.0	N/A
4/2019	N/A	0.0127	<0.01	<0.004	<0.005	565.0	3680.0	<0.01	<0.01	457.0	<0.0002	N/A	0.0103	2100.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	688.0	4550.0	<0.2	<0.2	562.0	<0.0002	N/A	<0.2	2520.0	N/A
4/2020	N/A	0.0172	0.0332	<0.004	<0.005	791.0	2760.0	0.0109	<0.01	559.0	<0.0002	N/A	<0.01	2110.0	13.4

Minimum	738.0000	0.0127	0.0050	0.0020	0.0025	560.0000	2500.0000	0.0050	0.0050	457.0000	0.0001		0.0050	2030.0000	13.4000
Maximum	952.0000	0.1000	0.1000	0.0400	0.0500	791.0000	4550.0000	0.1750	0.1000	892.0000	0.0010		0.1000	2520.0000	13.4000
Mean	839.8000	0.0292	0.0491	0.0149	0.0119	626.0000	2967.6923	0.1435	0.0277	752.0909	0.0004		0.0473	2305.4545	13.4000
Median	843.5000	0.0250	0.0500	0.0150	0.0100	603.0000	2800.0000	0.1750	0.0250	809.0000	0.0003		0.0500	2450.0000	13.4000
Std. Dev.	62.4140	0.0216	0.0200	0.0090	0.0118	62.5127	556.1498	0.0636	0.0230	156.0394	0.0004		0.0224	209.0150	

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A13C
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
10/2015	321.0	<0.05	<0.1	<0.03	<0.02	663.0	718.0	<0.35	<0.05	227.0	<0.0005	N/A	<0.1	700.0	N/A
4/2016	320.0	<0.05	<0.1	<0.03	<0.02	672.0	678.0	<0.35	<0.05	242.0	<0.0005	N/A	<0.1	656.0	N/A
10/2016	289.0	<0.05	<0.1	<0.03	<0.02	610.0	603.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2017	170.0	<0.05	<0.1	<0.03	<0.02	628.0	576.0	<0.35	<0.05	234.0	<0.002	N/A	<0.1	628.0	N/A
10/2017	226.0	<0.05	<0.1	<0.03	<0.02	561.0	547.0	<0.35	<0.05	N/A	<0.0005	N/A	<0.1	N/A	N/A
4/2018	288.0	<0.05	<0.1	<0.03	<0.02	602.0	<1000.0	<0.35	<0.05	222.0	<0.002	N/A	<0.1	578.0	N/A
10/2018	285.0	<0.05	<0.1	<0.03	<0.02	681.0	548.0	<0.35	<0.05	221.0	<0.0005	N/A	<0.1	586.0	N/A
4/2019	N/A	<0.01	0.0484	<0.004	<0.005	472.0	486.0	0.0126	<0.01	169.0	<0.0002	N/A	<0.01	393.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	672.0	617.0	<0.2	<0.2	225.0	<0.0002	N/A	<0.2	664.0	N/A
4/2020	N/A	<0.01	0.0356	<0.004	<0.005	502.0	770.0	<0.01	<0.01	182.0	<0.0002	N/A	<0.01	401.0	5.1

Minimum	170.0000	0.0050	0.0356	0.0020	0.0025	472.0000	486.0000	0.0050	0.0050	169.0000	0.0001		0.0050	393.0000	5.1000
Maximum	321.0000	0.1000	0.1000	0.0400	0.0500	681.0000	770.0000	0.1750	0.1000	242.0000	0.0010		0.1000	700.0000	5.1000
Mean	271.2857	0.0285	0.0534	0.0149	0.0125	606.3000	604.3000	0.1343	0.0285	215.2500	0.0004		0.0460	575.7500	5.1000
Median	288.0000	0.0250	0.0500	0.0150	0.0100	619.0000	589.5000	0.1750	0.0250	223.5000	0.0003		0.0500	607.0000	5.1000
Std. Dev.	54.6739	0.0265	0.0170	0.0103	0.0135	73.7097	93.1582	0.0702	0.0265	25.7002	0.0003		0.0266	117.3770	

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Cell 15 / WMA #7 Well: MW 15A14
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2020	N/A	0.0209	0.0476	<0.004	<0.005	457.0	1510.0	0.0274	<0.01	232.0	<0.0002	N/A	0.0688	1690.0	N/A

Minimum		0.0209	0.0476	0.0020	0.0025	457.0000	1510.0000	0.0165	0.0050	142.0000	0.0001		0.0688	1690.0000	
Maximum		0.0221	0.0561	0.0020	0.0025	511.0000	1510.0000	0.0274	0.0050	232.0000	0.0001		0.1370	2080.0000	
Mean		0.0215	0.0519	0.0020	0.0025	484.0000	1510.0000	0.0220	0.0050	187.0000	0.0001		0.1029	1885.0000	
Median		0.0215	0.0519	0.0020	0.0025	484.0000	1510.0000	0.0220	0.0050	187.0000	0.0001		0.1029	1885.0000	
Std. Dev.		0.0008	0.0060	0.0000	0.0000	38.1838		0.0077	0.0000	63.6396	0.0000		0.0482	275.7716	

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Drum Cell / WMA #4 Well: CM-9
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.6
10/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.2
4/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.5
10/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0394
4/2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29.7
4/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0034
10/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0349
4/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29.1
10/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.49
4/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29.07
10/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.7
4/2019	N/A	0.0441	0.0547	<0.004	<0.005	549.0	8980.0	0.0279	<0.01	119.0	<0.0002	N/A	<0.01	5640.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	710.0	7730.0	<0.2	<0.2	124.0	<0.0002	N/A	<0.2	6900.0	N/A
4/2020	N/A	0.0474	0.0779	<0.004	<0.005	569.0	2090.0	0.0202	<0.01	106.0	<0.0002	N/A	<0.01	4300.0	26.7

Minimum		0.0250	0.0250	0.0020	0.0025	549.0000	2090.0000	0.0202	0.0050	106.0000	0.0001		0.0050	4300.0000	0.0034
Maximum		0.1000	0.1000	0.0400	0.0500	710.0000	8980.0000	0.1000	0.1000	124.0000	0.0001		0.1000	6900.0000	34.2000
Mean		0.0541	0.0644	0.0135	0.0169	609.3333	6266.6667	0.0433	0.0338	116.3333	0.0001		0.0338	5613.3333	19.0115
Median		0.0458	0.0663	0.0060	0.0075	569.0000	7730.0000	0.0265	0.0150	119.0000	0.0001		0.0150	5640.0000	24.4950
Std. Dev.		0.0321	0.0321	0.0181	0.0226	87.7515	3670.6993	0.0379	0.0452	9.2916	0.0000		0.0452	1300.2051	13.0366

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

Appendix 3.14: Summary of Detections
Well Group: Drum Cell / WMA #4 Well: CM-10
Clean Harbors, LLC Lone Mountain Facility

Date	Alkalinity (Total) (mg/l)	Arsenic (Total) (mg/l)	Barium (Total) (mg/l)	Beryllium (Total) (mg/l)	Cadmium (Total) (mg/l)	Calcium (Total) (mg/l)	Chloride (Total) (mg/l)	Chromium (Total) (mg/l)	Lead (Total) (mg/l)	Magnesium (Total) (mg/l)	Mercury (Total) (mg/l)	Potassium (Total) (mg/l)	Selenium (Total) (mg/l)	Sodium (Total) (mg/l)	Specific Conductivity (mS/cm)
4/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	84.9
10/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	81.7
4/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47.6
10/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0705
4/2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	82.2
4/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0034
10/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.051
4/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.2
10/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.4
4/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.56
10/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.93
4/2019	N/A	<0.1	<0.1	<0.04	<0.05	1270.0	39300.0	<0.1	<0.1	305.0	<0.0002	N/A	<0.1	22500.0	N/A
10/2019	N/A	<0.2	<0.2	<0.08	<0.1	1070.0	34900.0	<0.2	<0.2	308.0	<0.0002	N/A	<0.2	11400.0	N/A
4/2020	N/A	<0.05	<0.05	<0.02	<0.025	979.0	33400.0	<0.05	<0.05	241.0	<0.0002	N/A	<0.05	11500.0	66.7

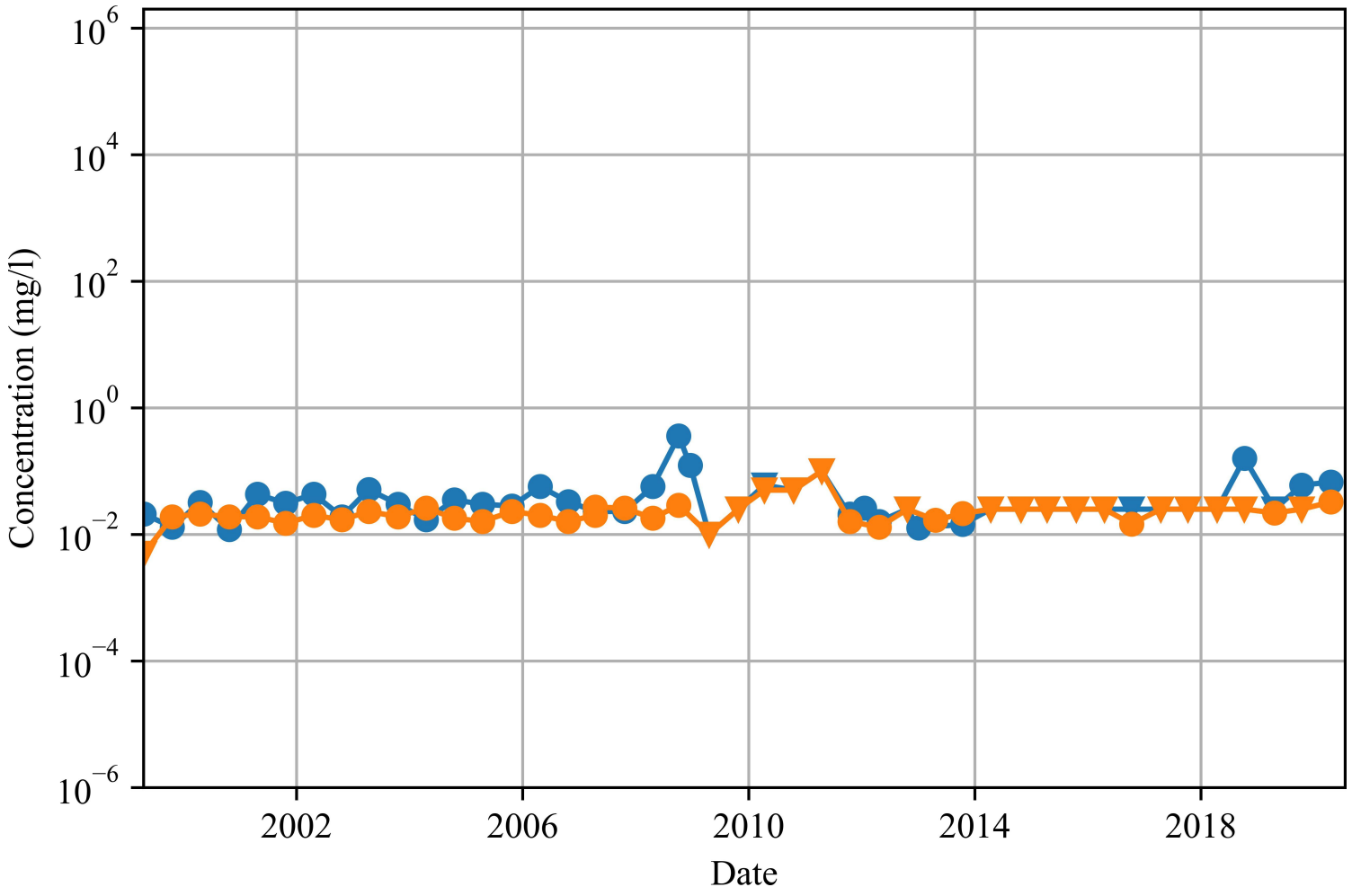
Minimum		0.0174	0.0250	0.0020	0.0025	979.0000	33400.0000	0.0192	0.0050	241.0000	0.0001		0.0188	11400.0000	0.0034
Maximum		0.1000	0.1000	0.0400	0.0500	1270.0000	39300.0000	0.1000	0.1000	308.0000	0.0001		0.1000	22500.0000	84.9000
Mean		0.0481	0.0542	0.0180	0.0225	1106.3333	35866.6667	0.0486	0.0450	284.6667	0.0001		0.0485	15133.3333	42.9429
Median		0.0375	0.0458	0.0150	0.0188	1070.0000	34900.0000	0.0375	0.0375	305.0000	0.0001		0.0375	11500.0000	45.4000
Std. Dev.		0.0373	0.0323	0.0164	0.0205	148.8635	3066.4855	0.0368	0.0410	37.8462	0.0000		0.0369	6379.9164	34.5587

N/A : No Data
Non-detections substituted by one-half the detection limit for statistical analysis

APPENDIX 3.15

CONCENTRATION VS. TIME PLOTS

(AS, BA, CR, PB, SE, CA, CL, MG, NA, AND SO4)



Legend

MW 21

MW 22

Detect

Non-detect

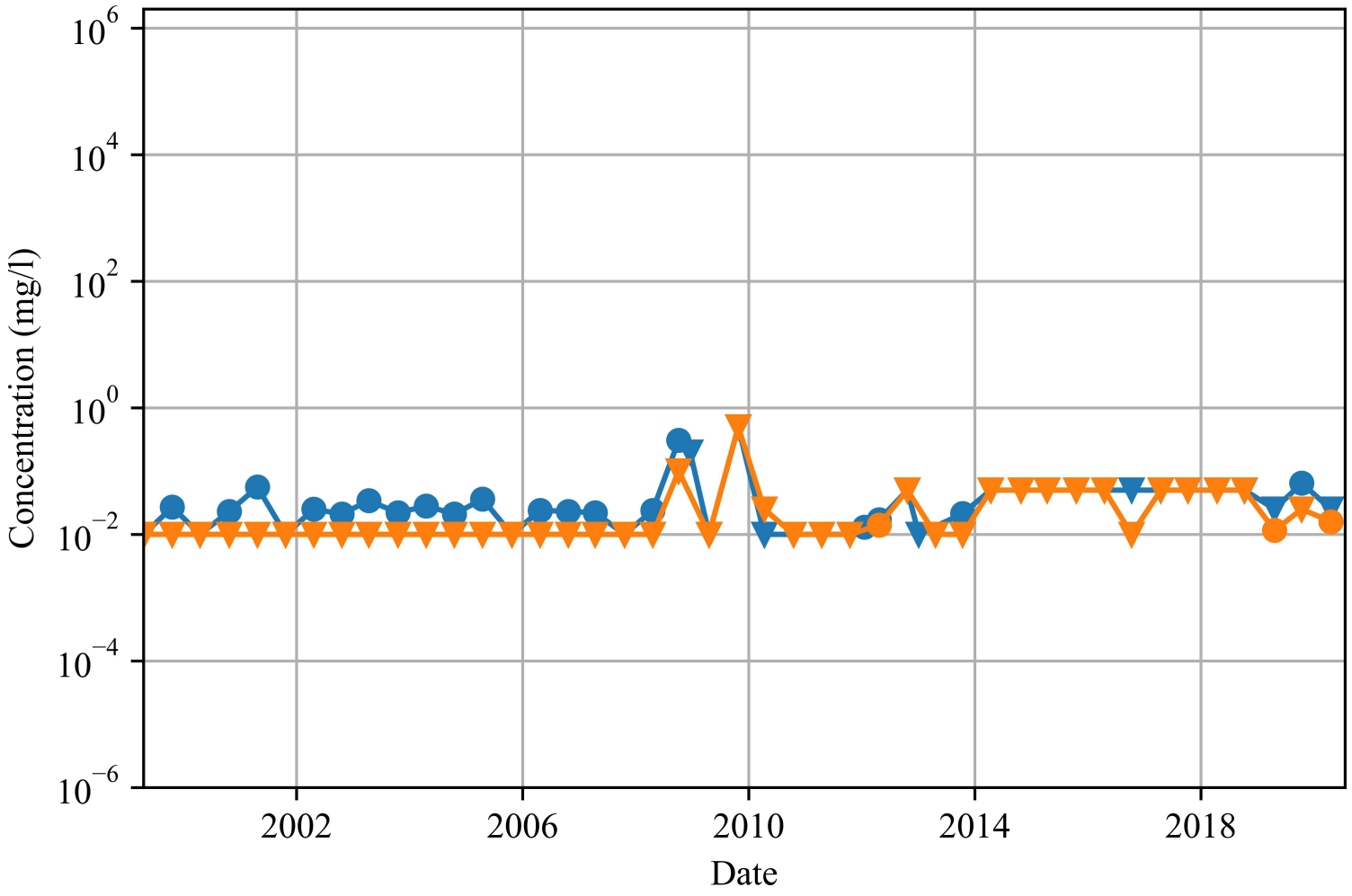
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-1:
Concentration vs. Time
Cell 10/WMA #2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

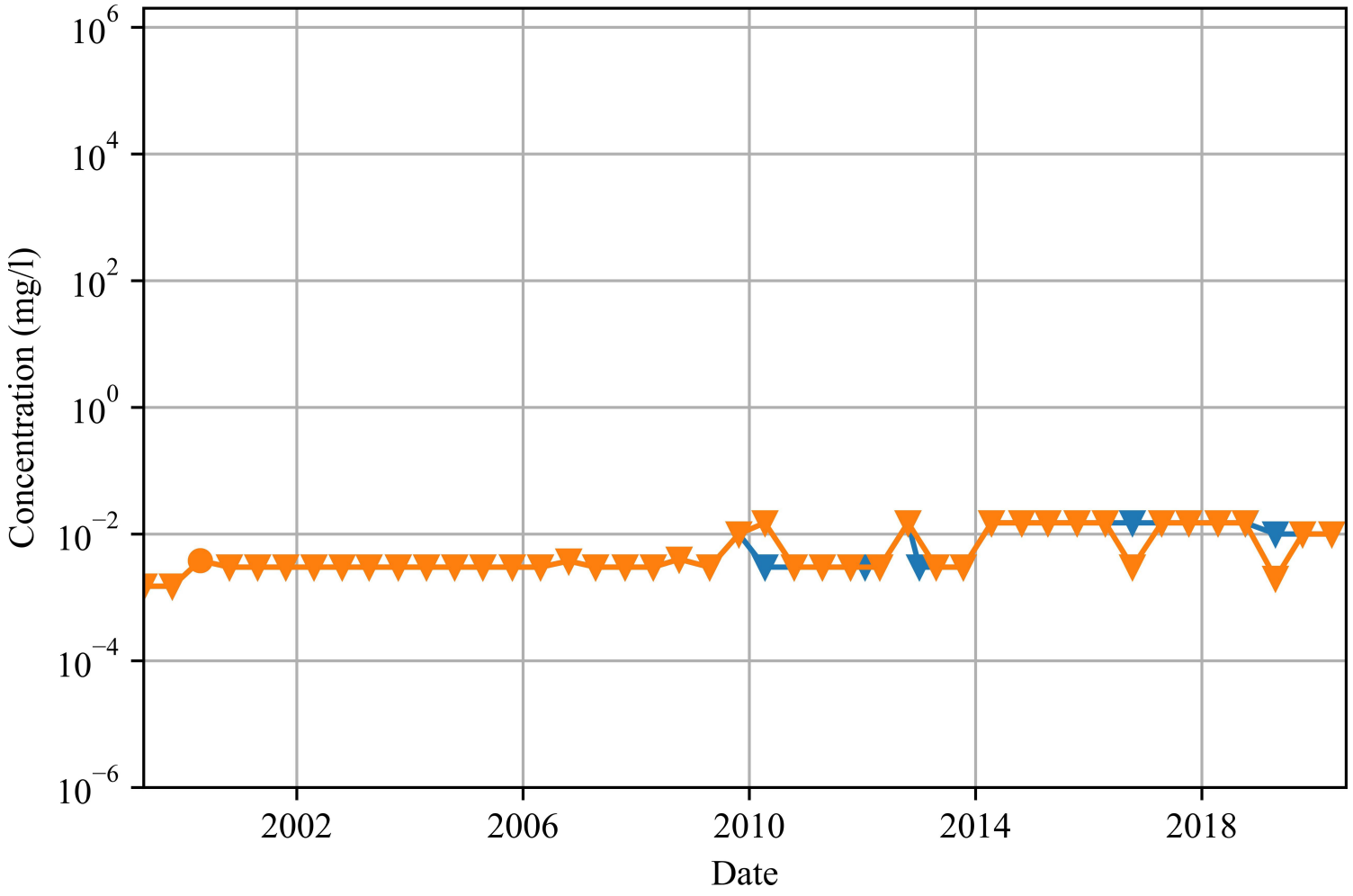
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-2:
Concentration vs. Time
Cell 10/WMA #2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 21

MW 22

Detect

Non-detect

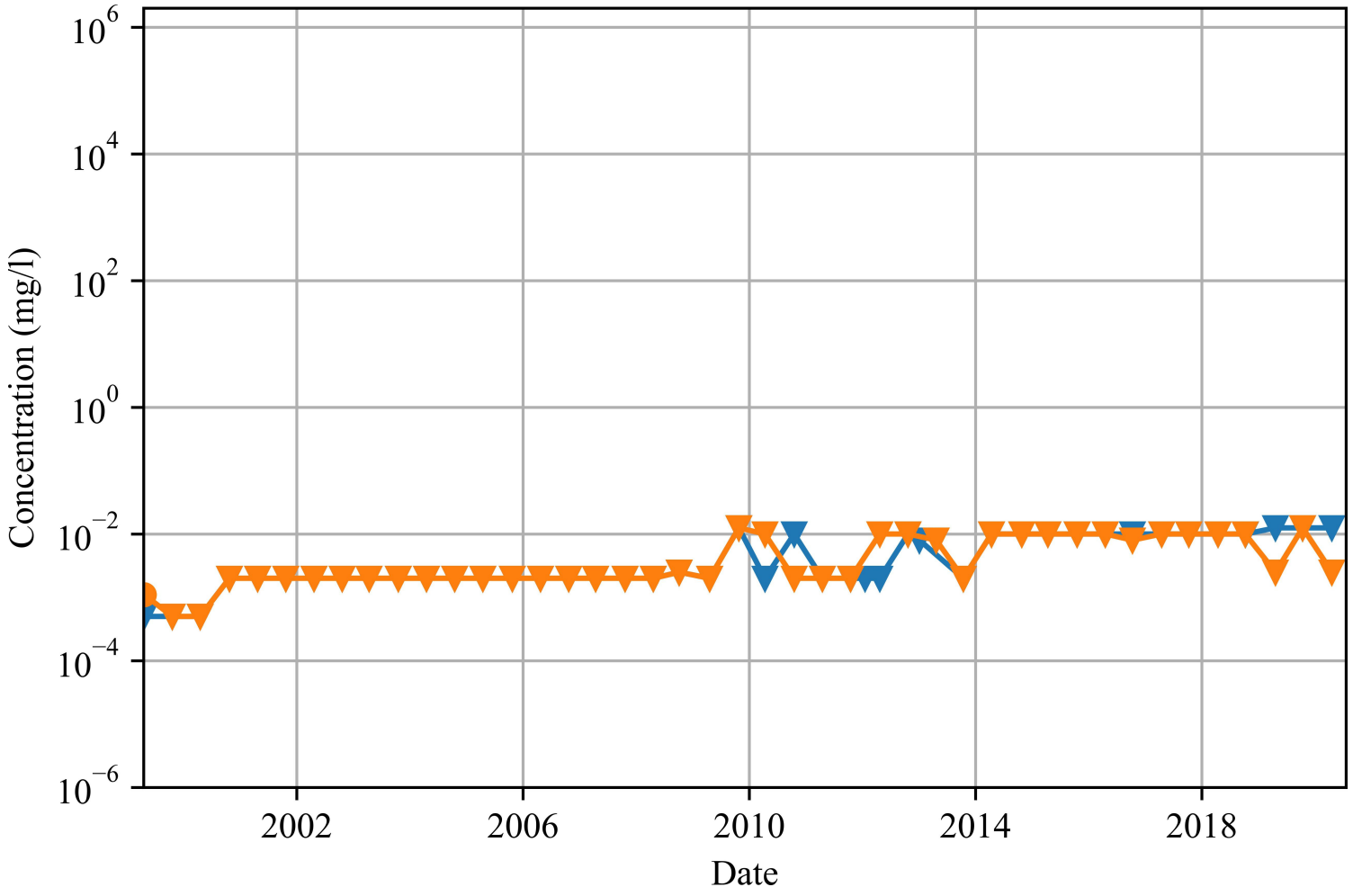
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-3:
Concentration vs. Time
Cell 10/WMA #2
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 21

MW 22

Detect

Non-detect

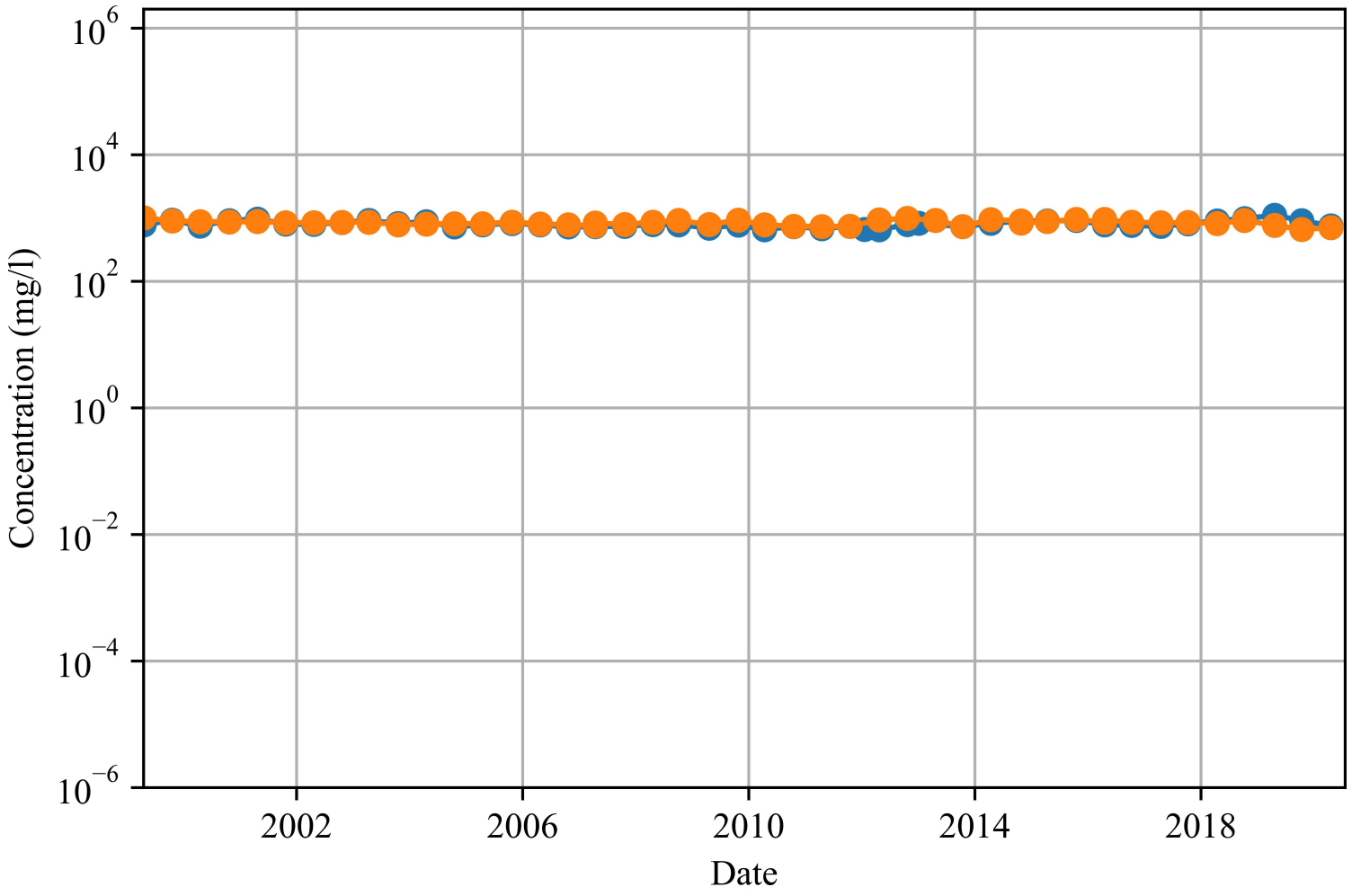
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-4:
Concentration vs. Time
Cell 10/WMA #2
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

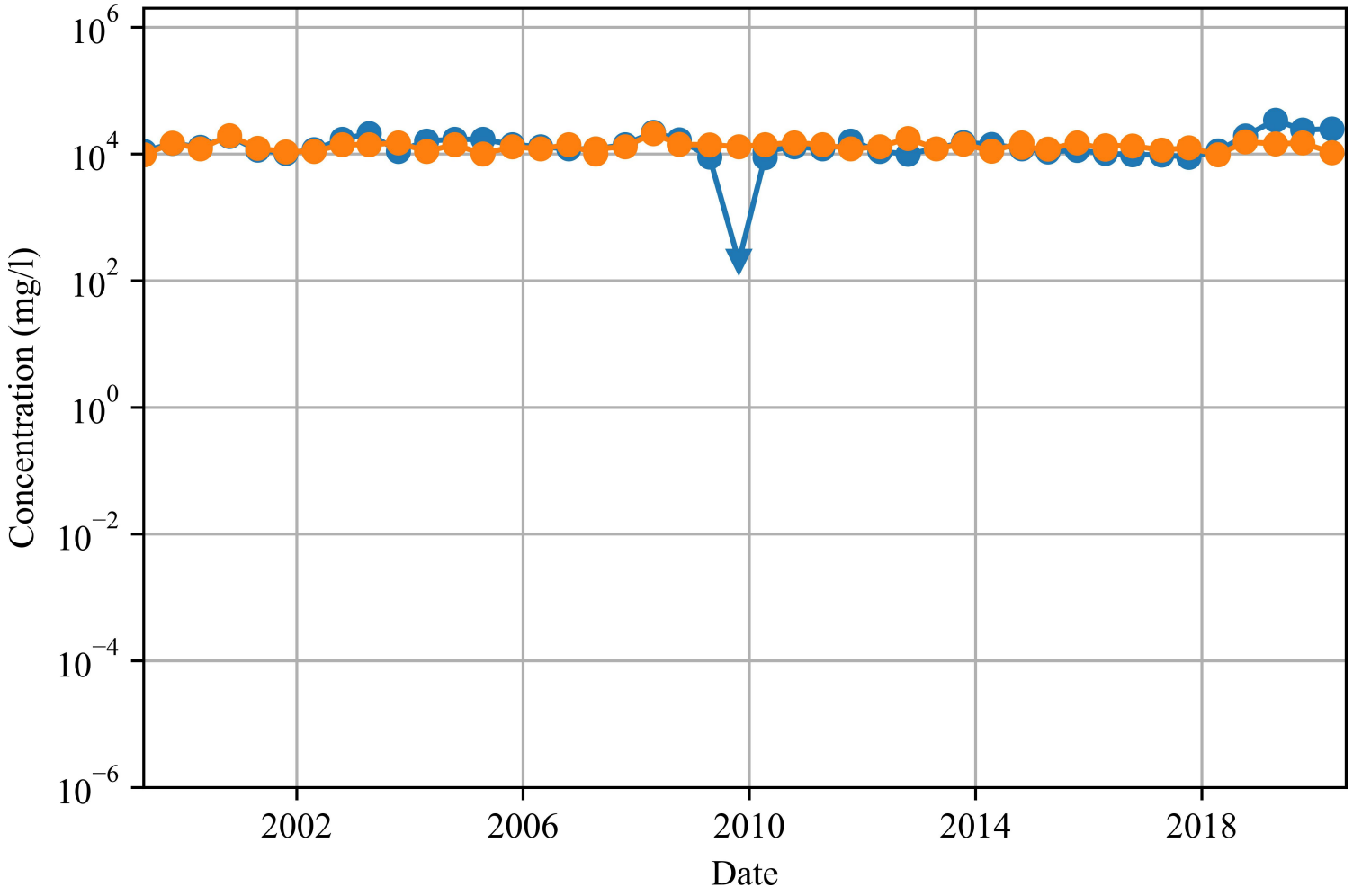
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-5:
Concentration vs. Time
Cell 10/WMA #2
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 21

MW 22

Detect

Non-detect

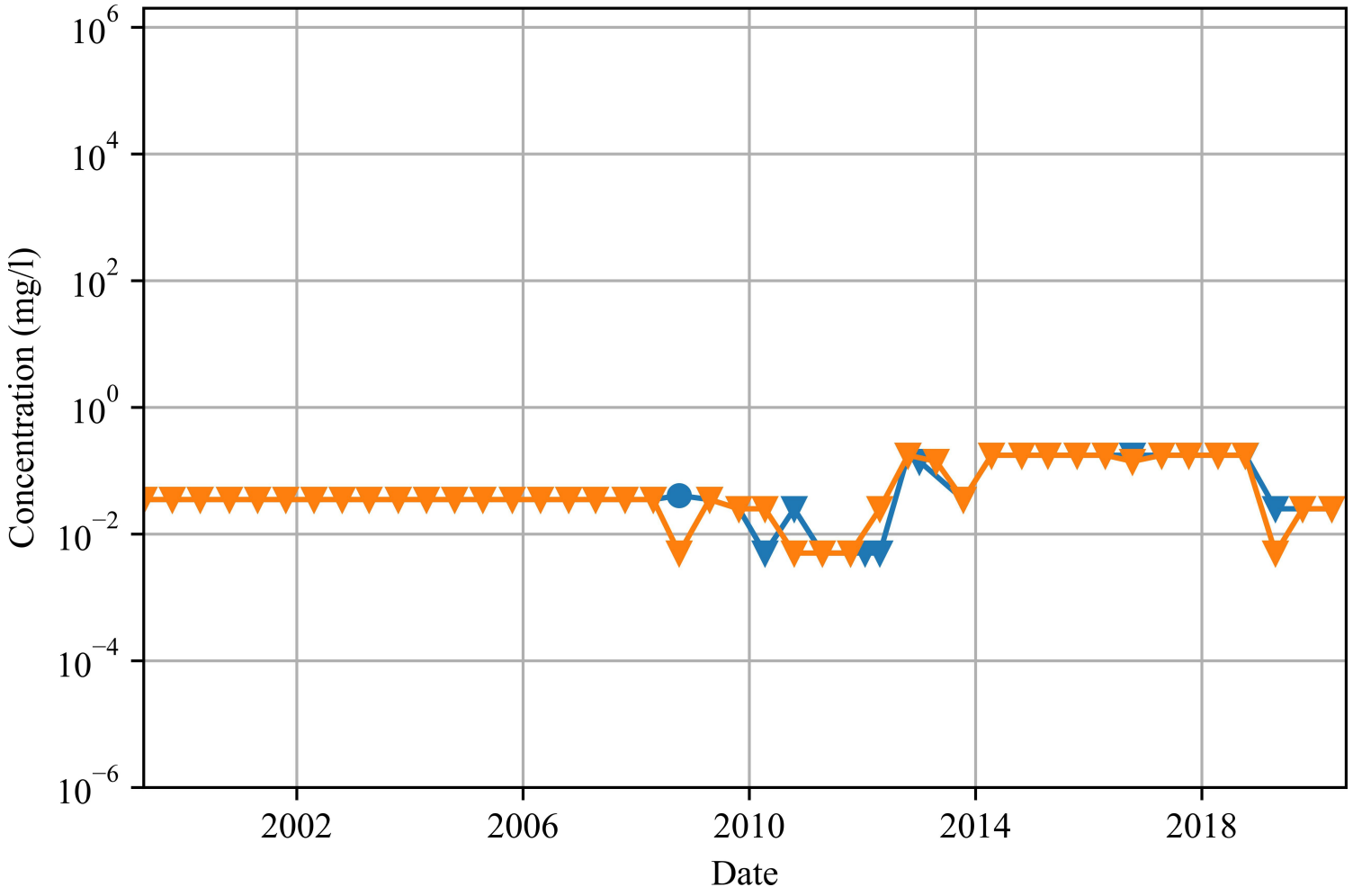
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-6:
Concentration vs. Time
Cell 10/WMA #2
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

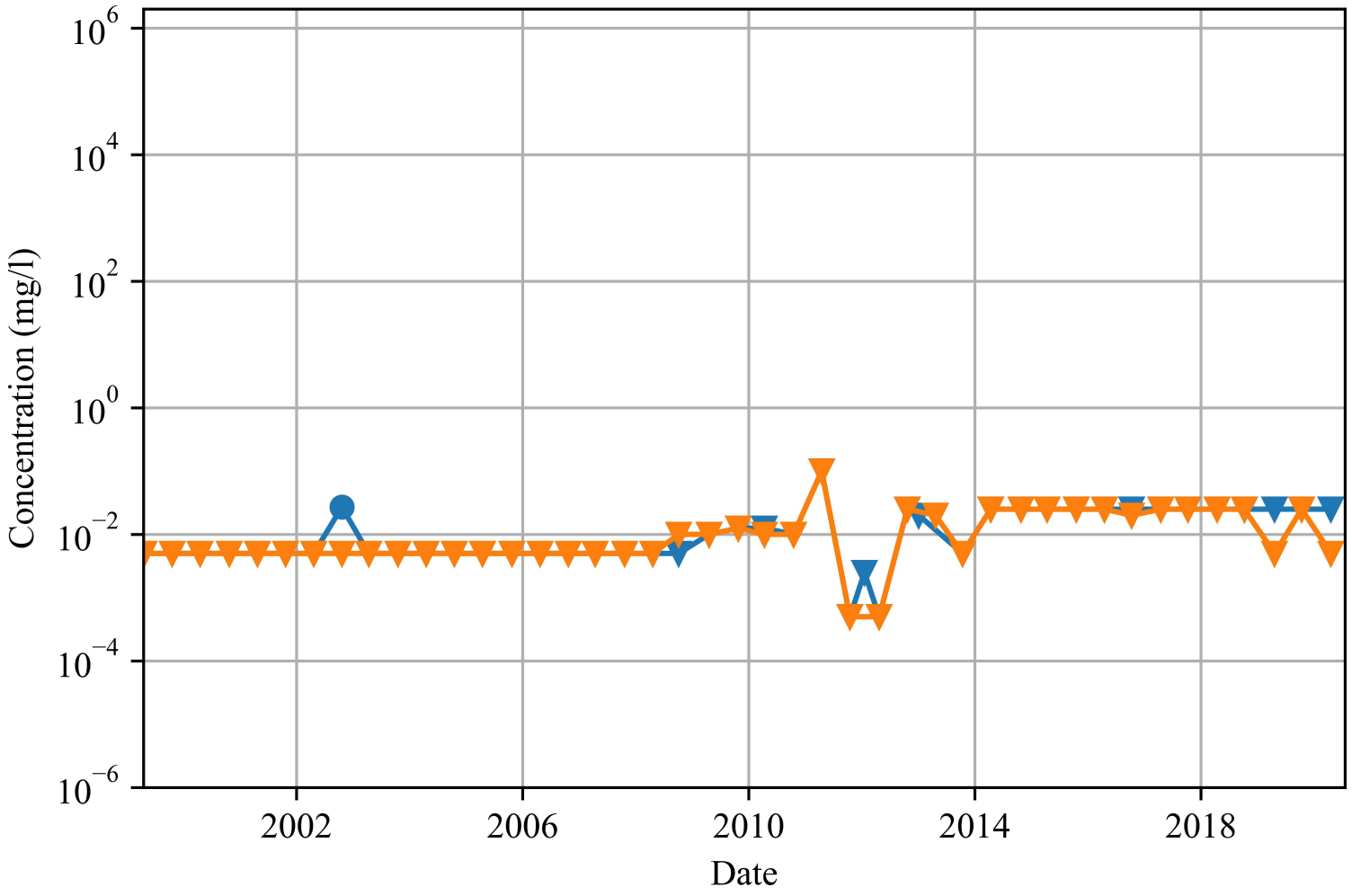
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-7:
Concentration vs. Time
Cell 10/WMA #2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

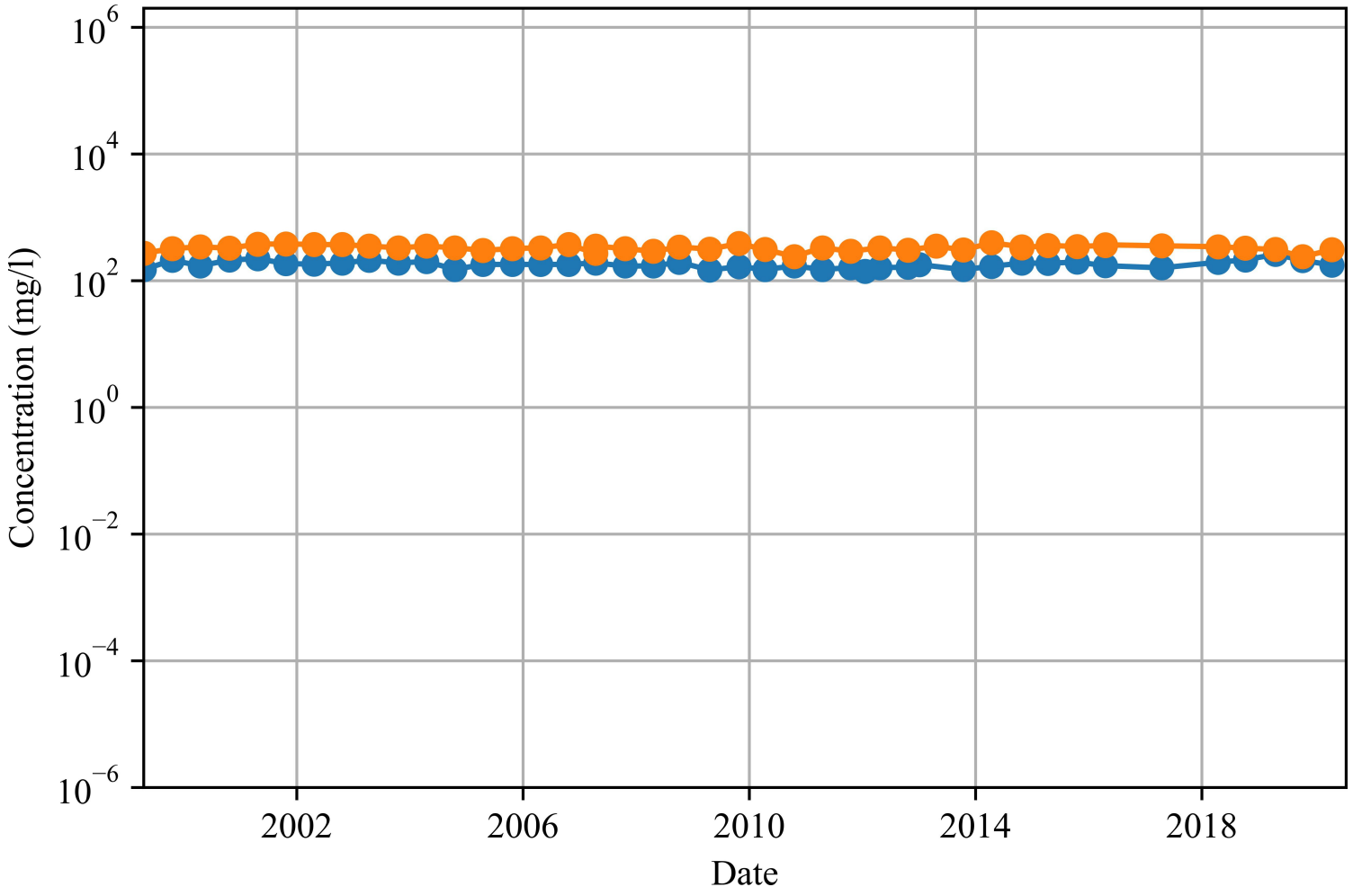
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-8:
Concentration vs. Time
Cell 10/WMA #2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

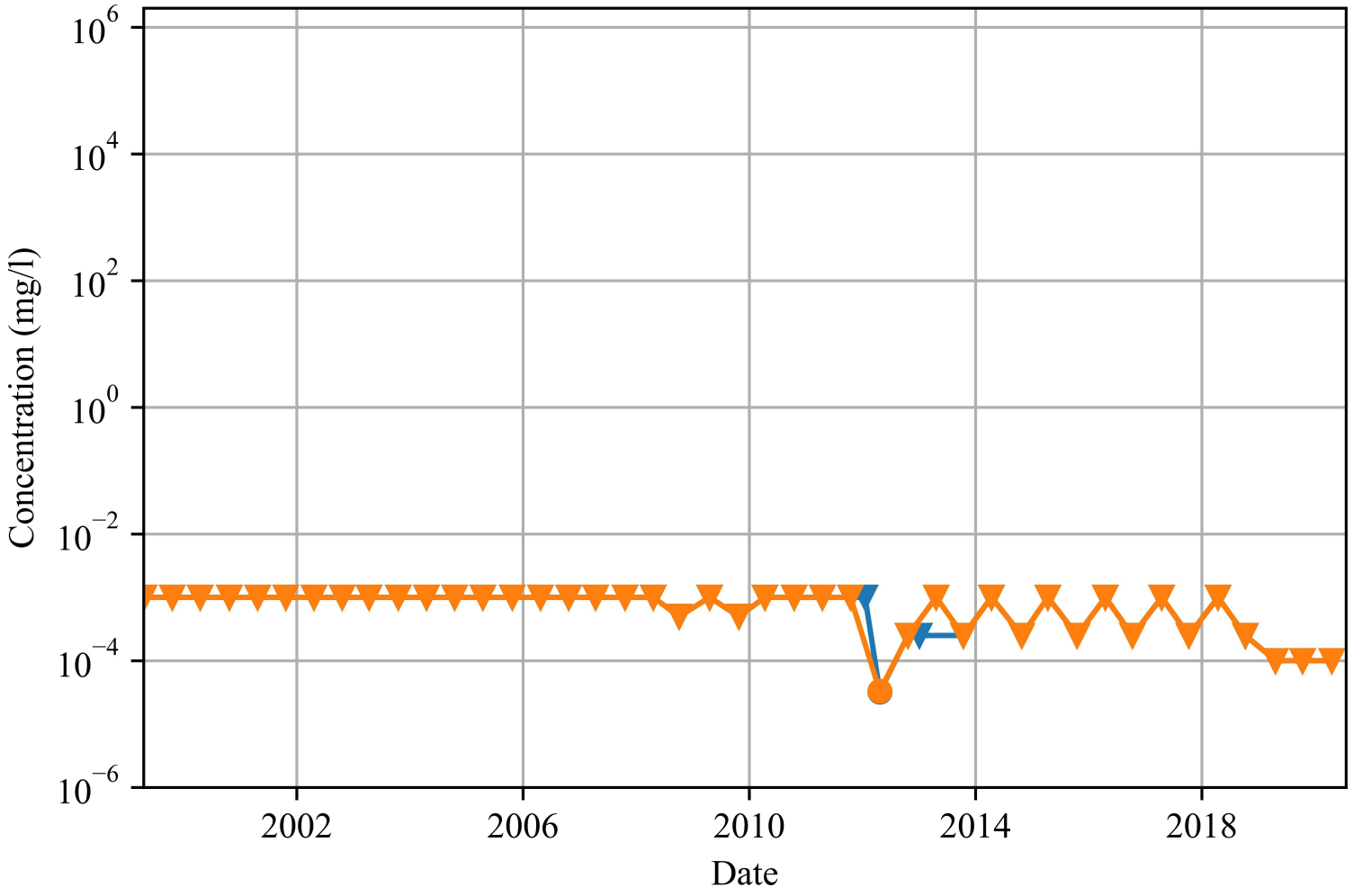
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-9:
Concentration vs. Time
Cell 10/WMA #2
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 21

MW 22

Detect

Non-detect

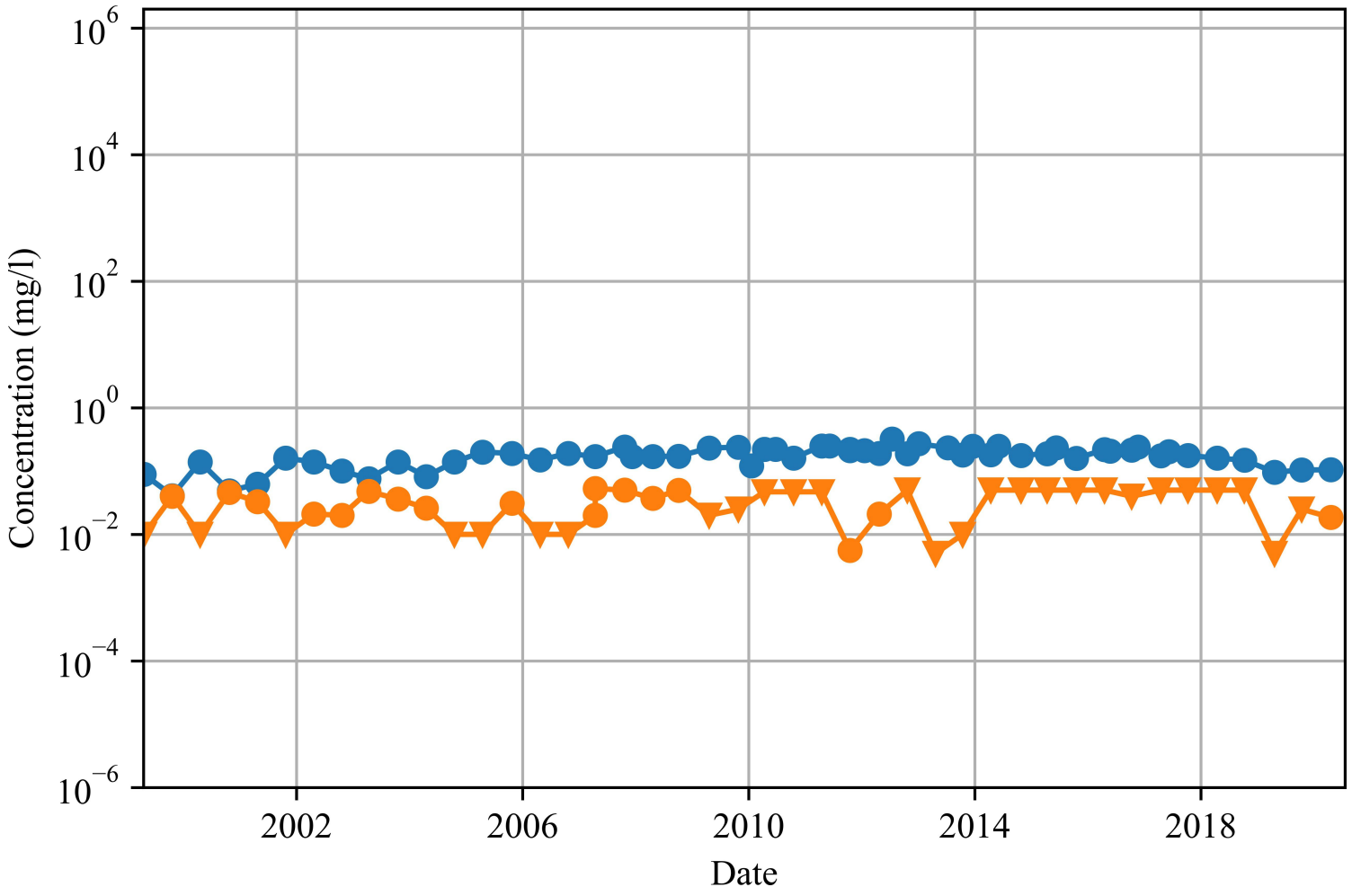
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-10:
Concentration vs. Time
Cell 10/WMA #2
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

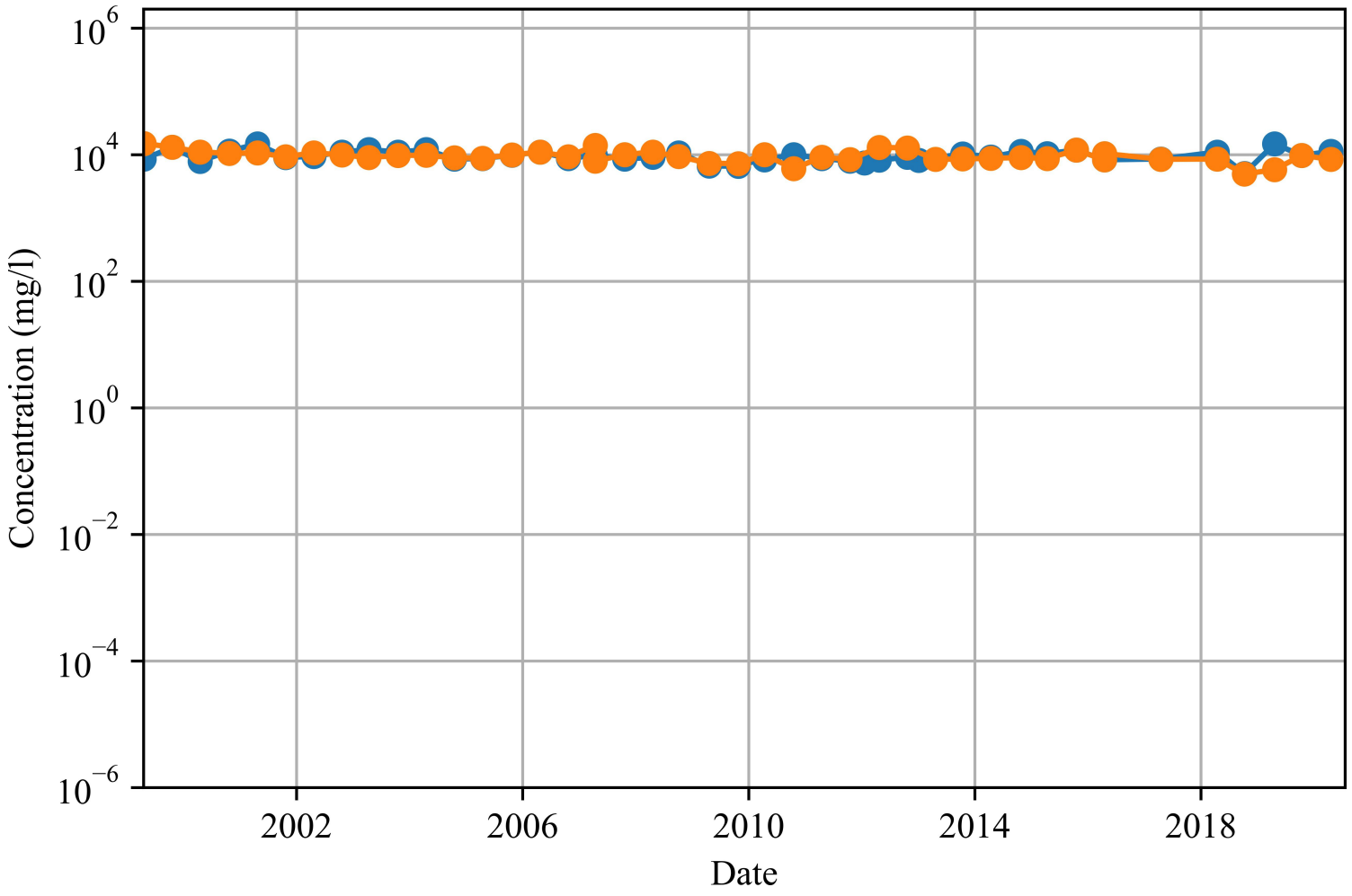
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-11:
Concentration vs. Time
Cell 10/WMA #2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 21

MW 22

Detect

Non-detect

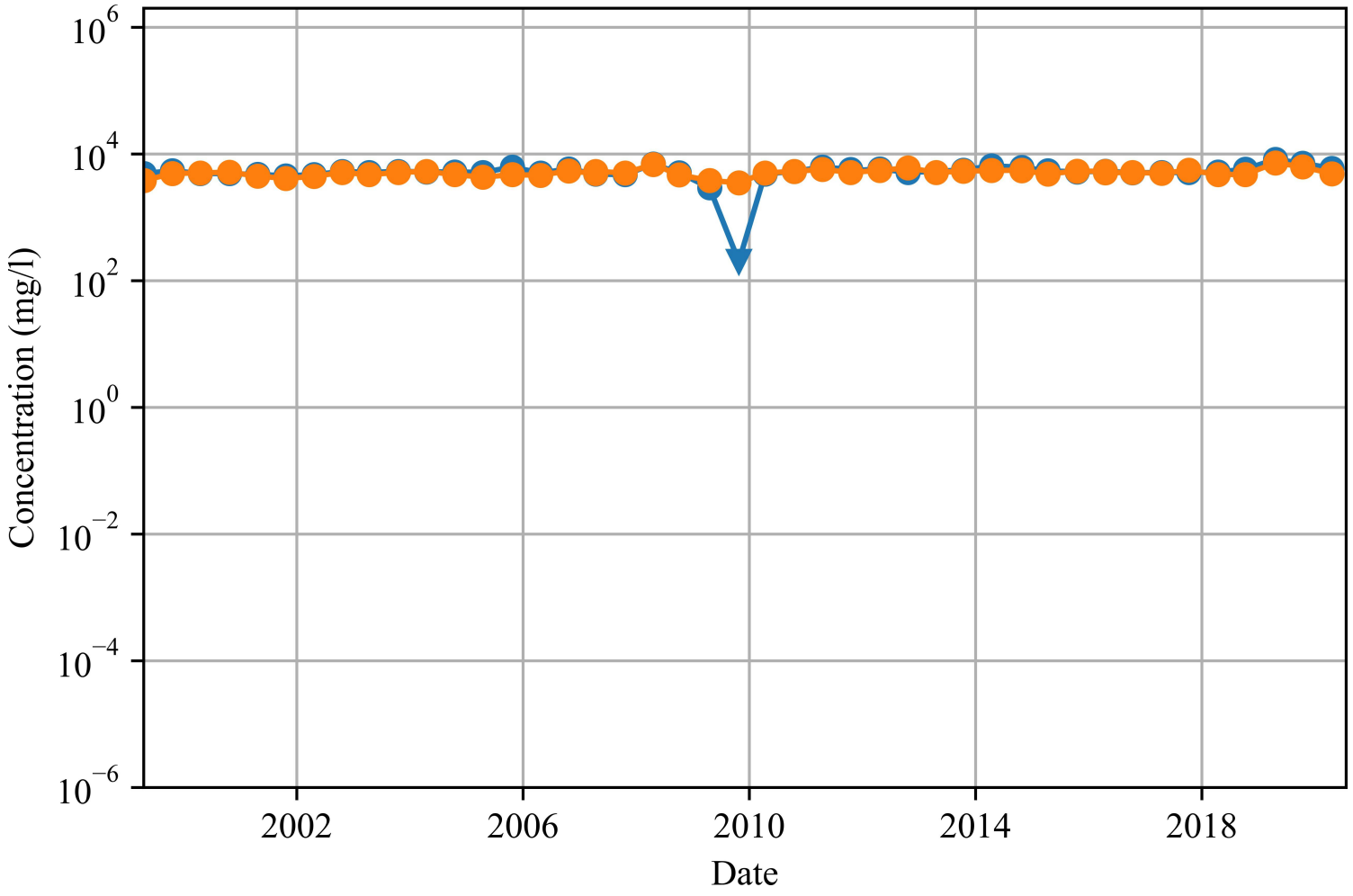
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-12:
Concentration vs. Time
Cell 10/WMA #2
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 21
- MW 22
- Detect
- Non-detect

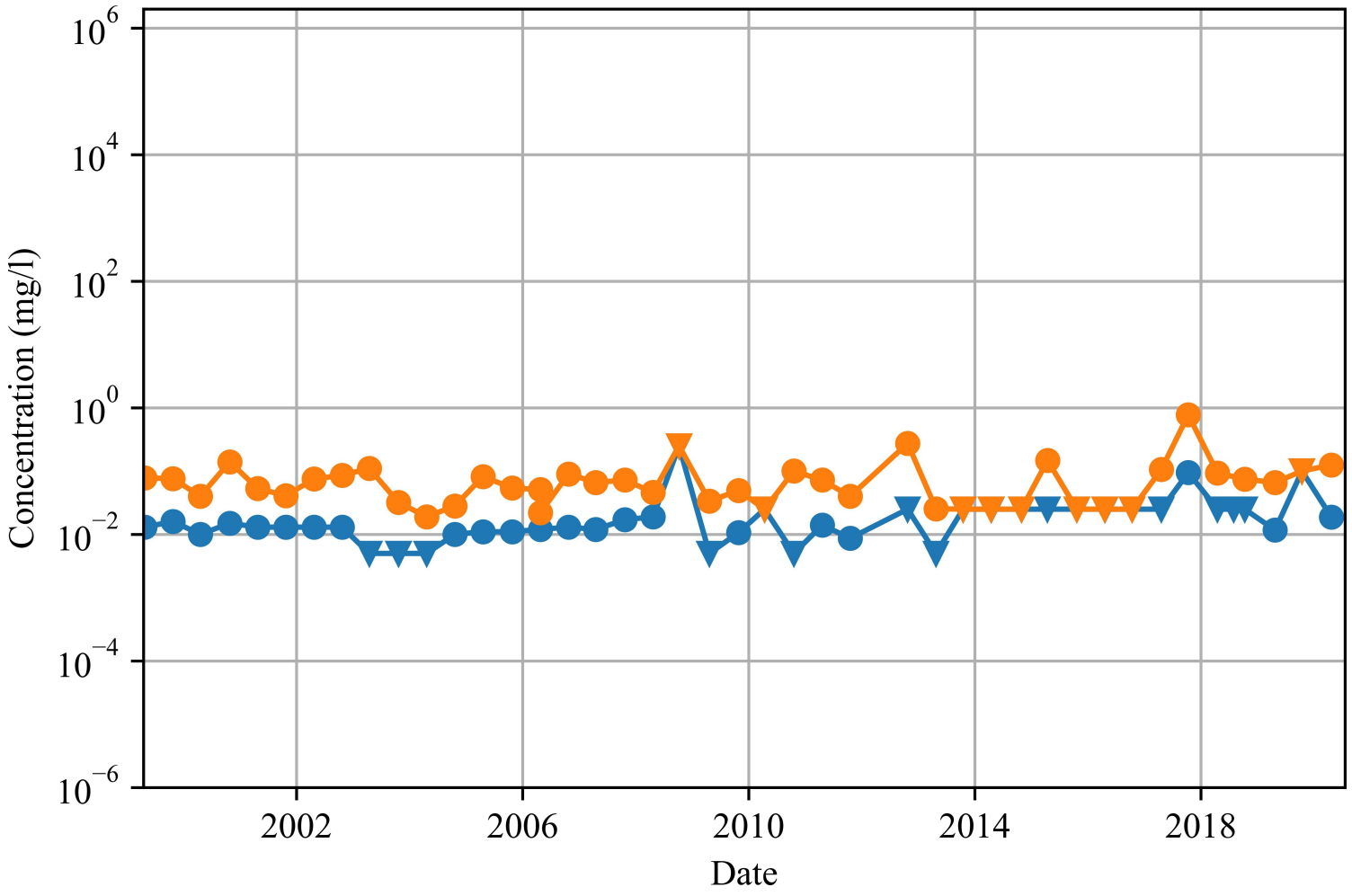
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-13:
Concentration vs. Time
Cell 10/WMA #2
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

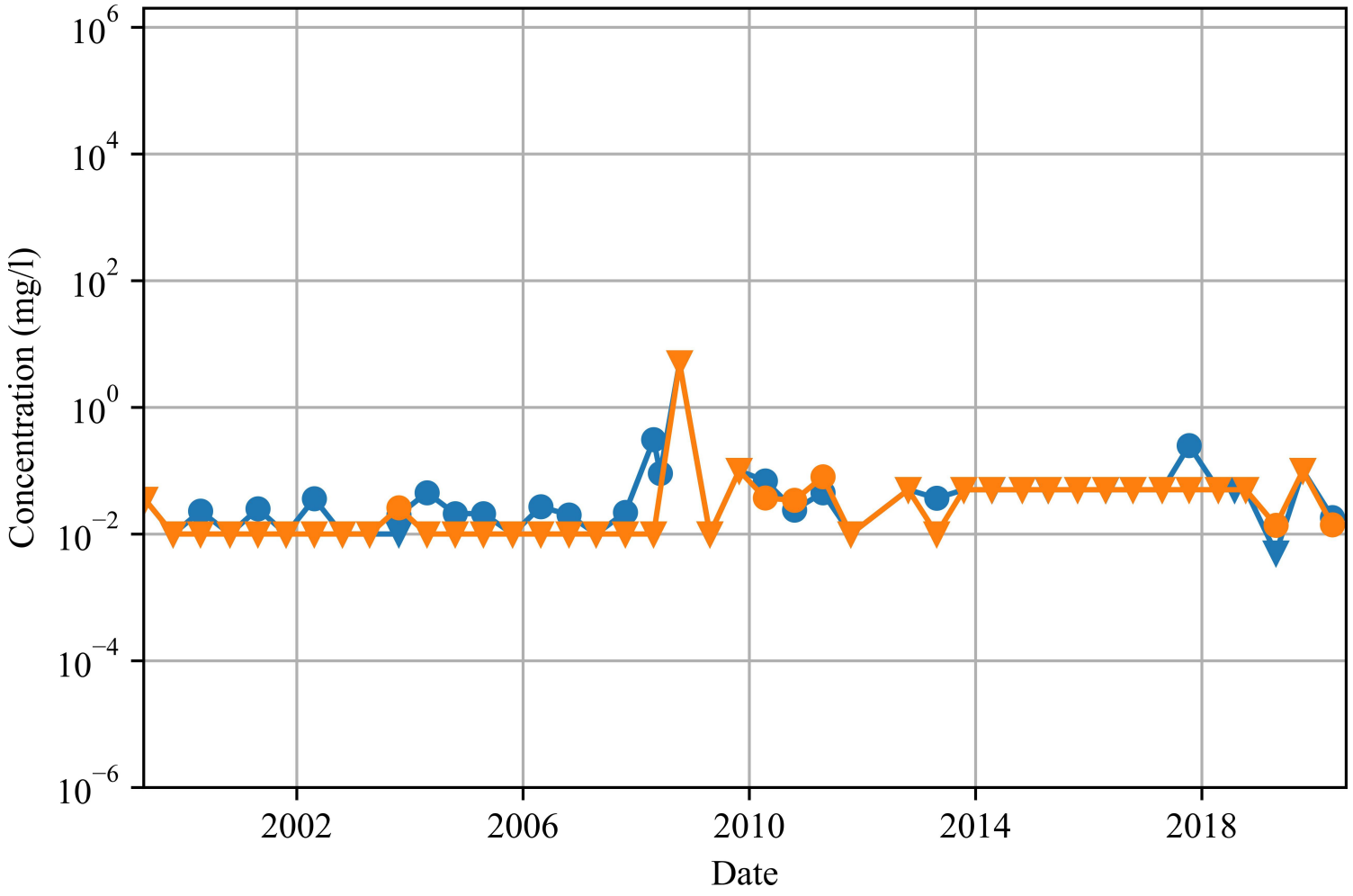
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-14:
Concentration vs. Time
Cells 1-7/WMA #5
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

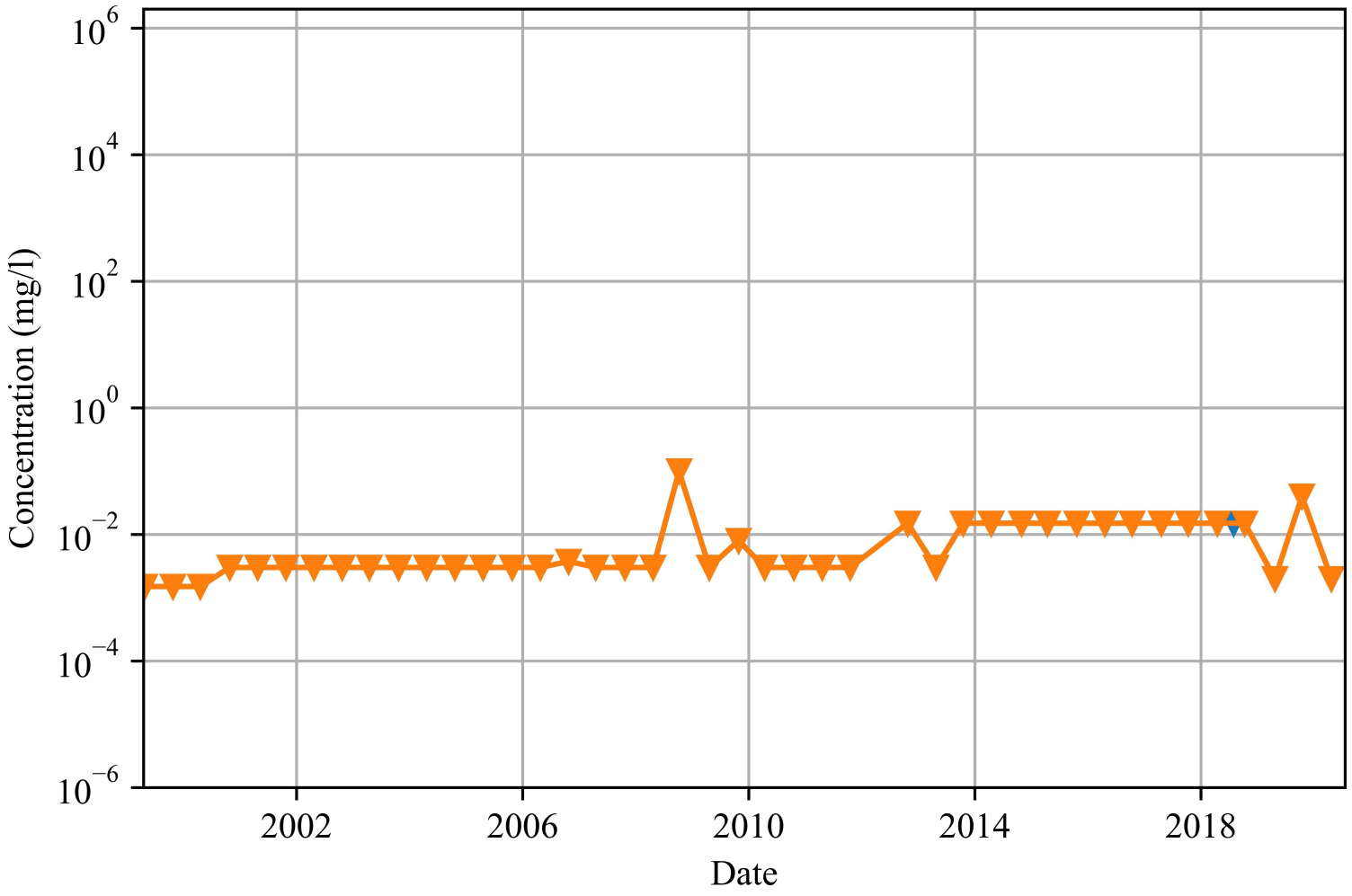
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-15:
Concentration vs. Time
Cells 1-7/WMA #5
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

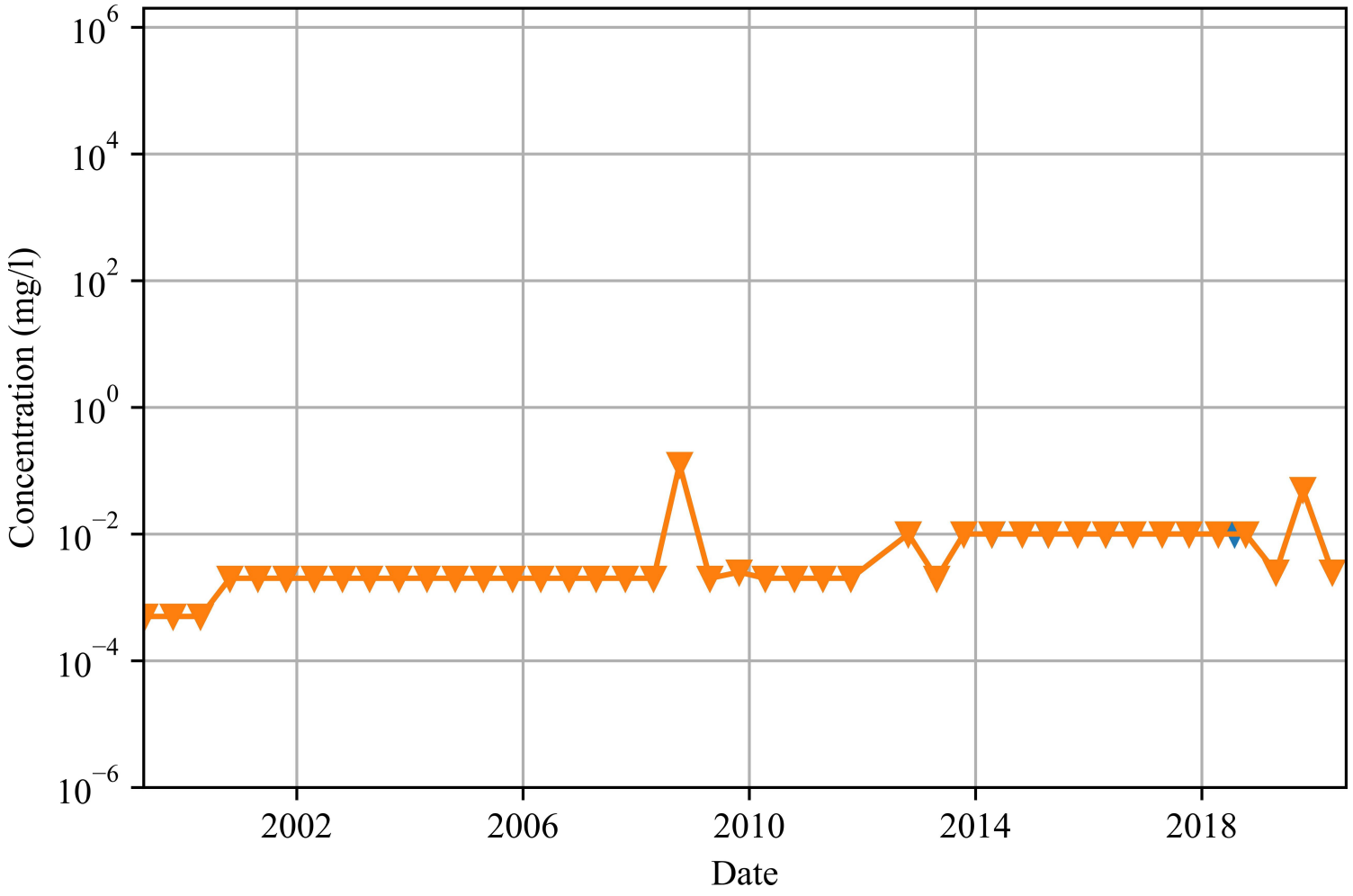
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-16:
Concentration vs. Time
Cells 1-7/WMA #5
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

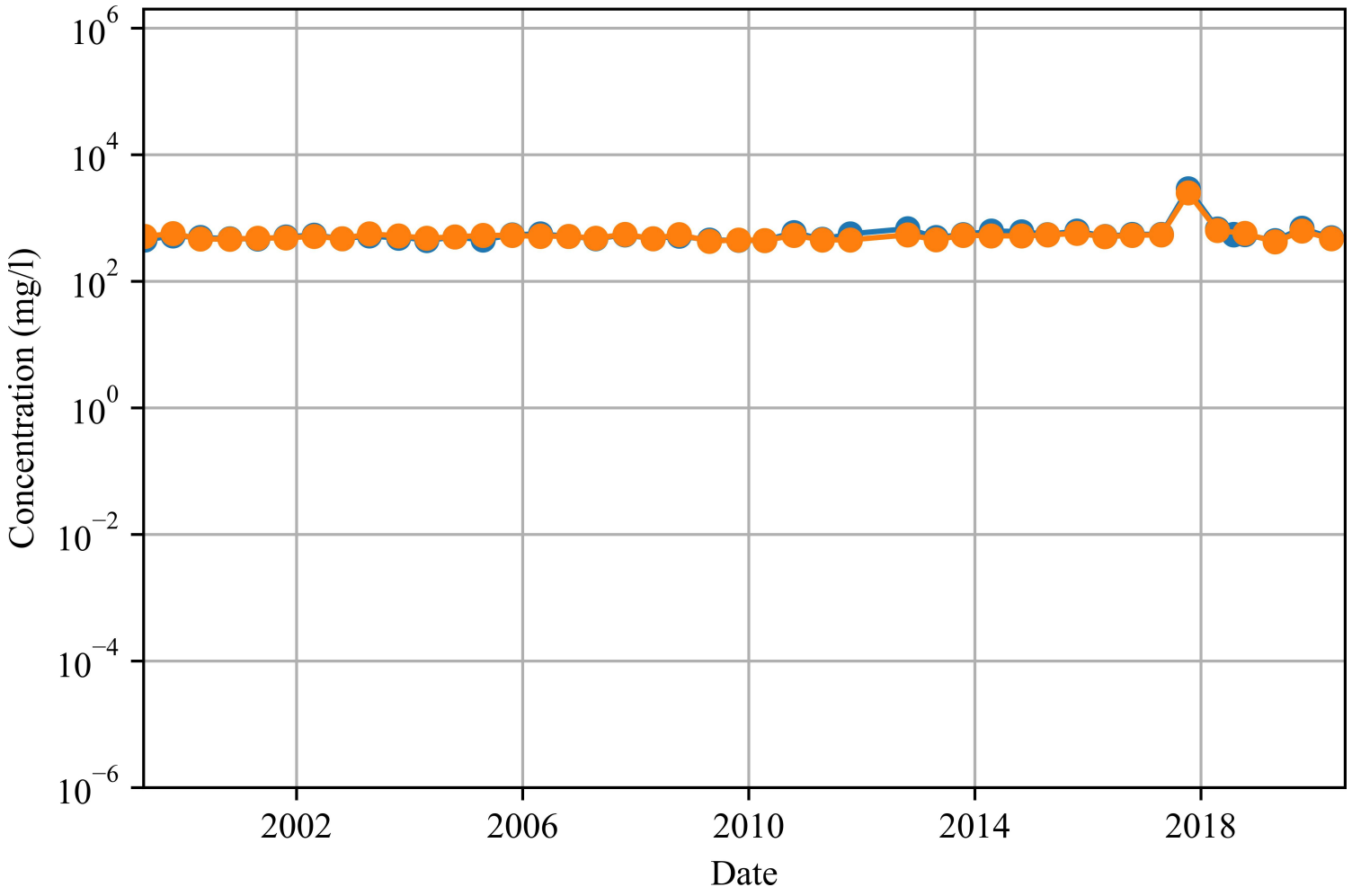
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-17:
Concentration vs. Time
Cells 1-7/WMA #5
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

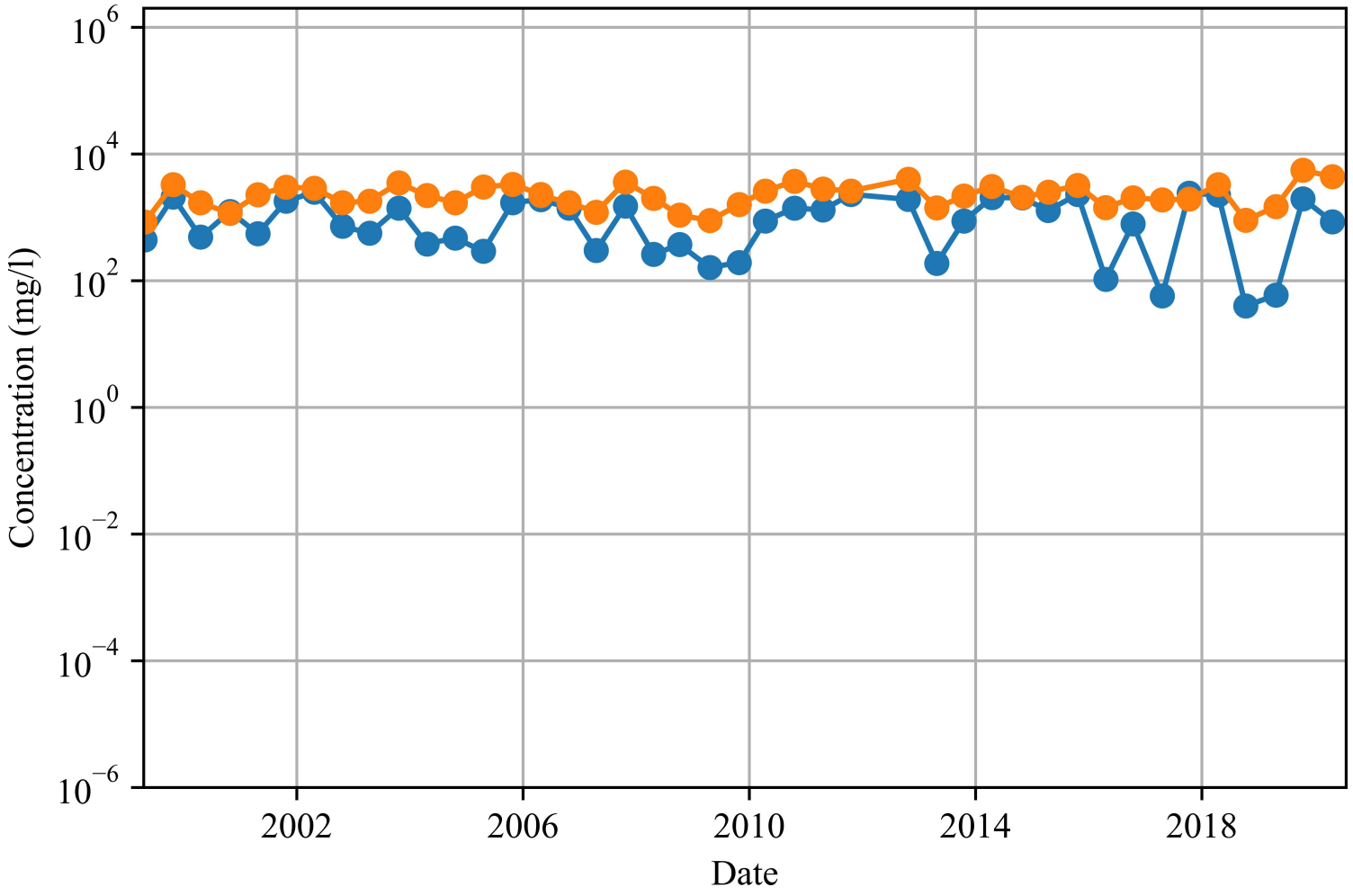
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-18:
Concentration vs. Time
Cells 1-7/WMA #5
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

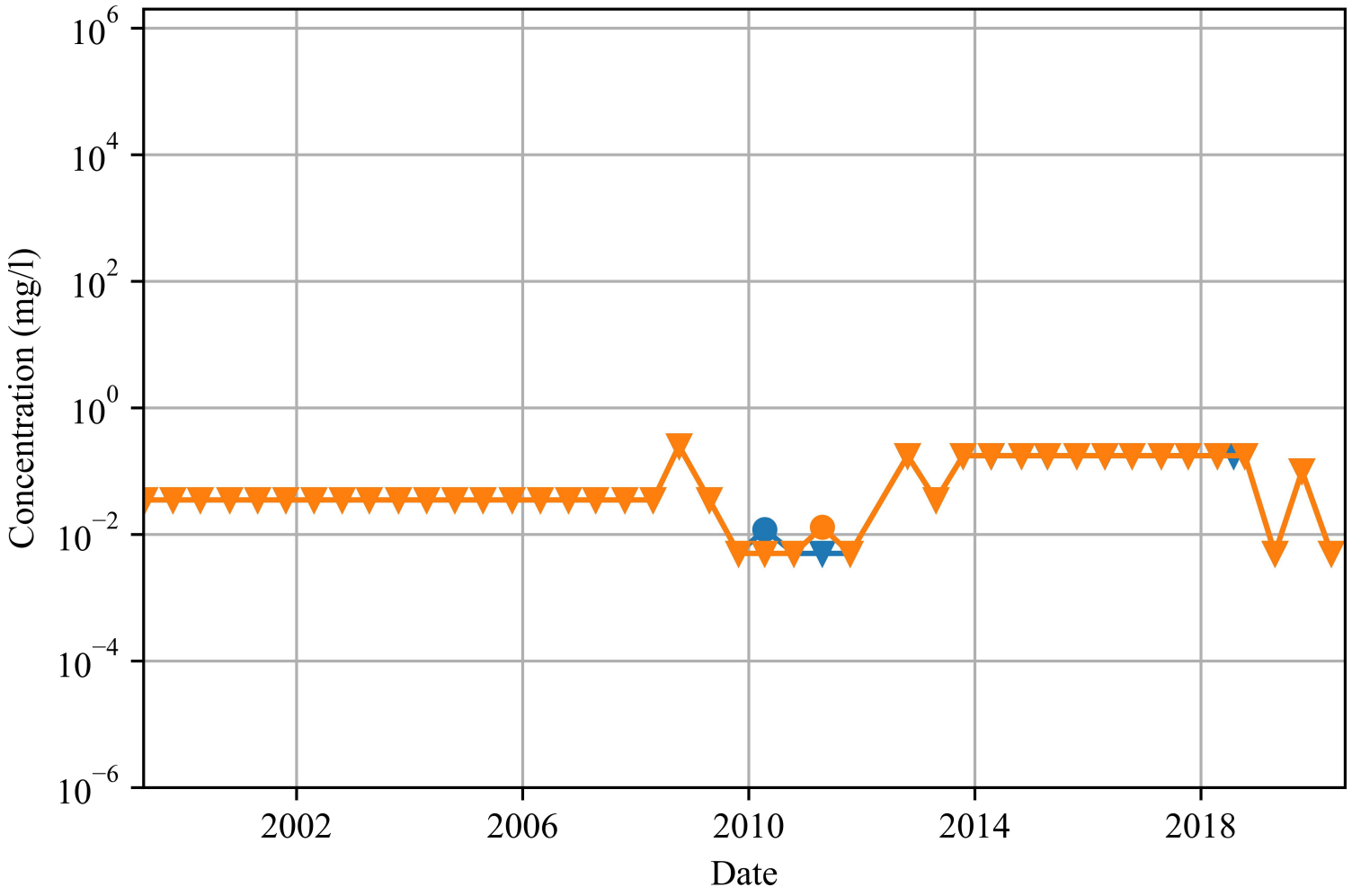
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-19:
Concentration vs. Time
Cells 1-7/WMA #5
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

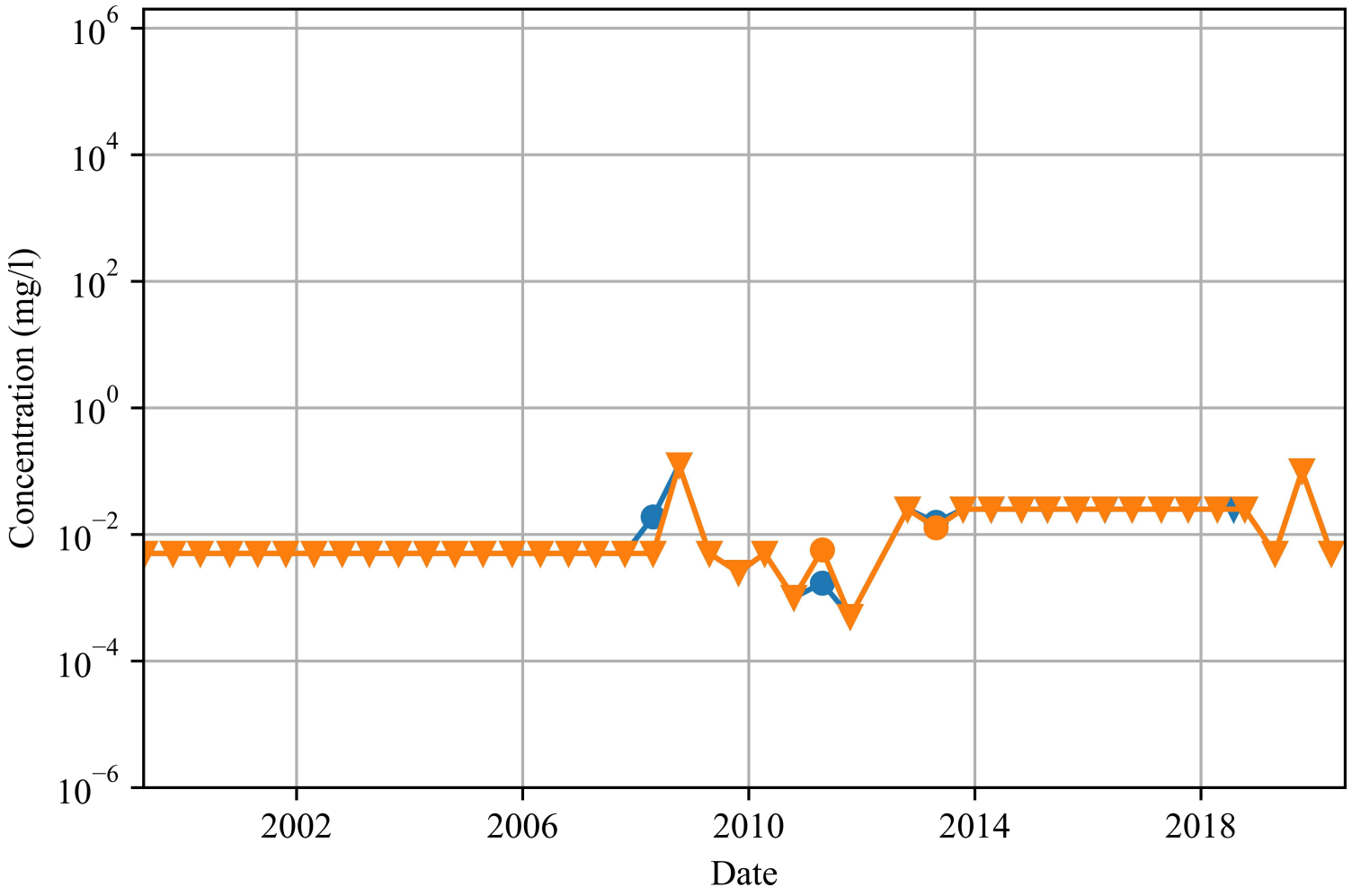
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-20:
Concentration vs. Time
Cells 1-7/WMA #5
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

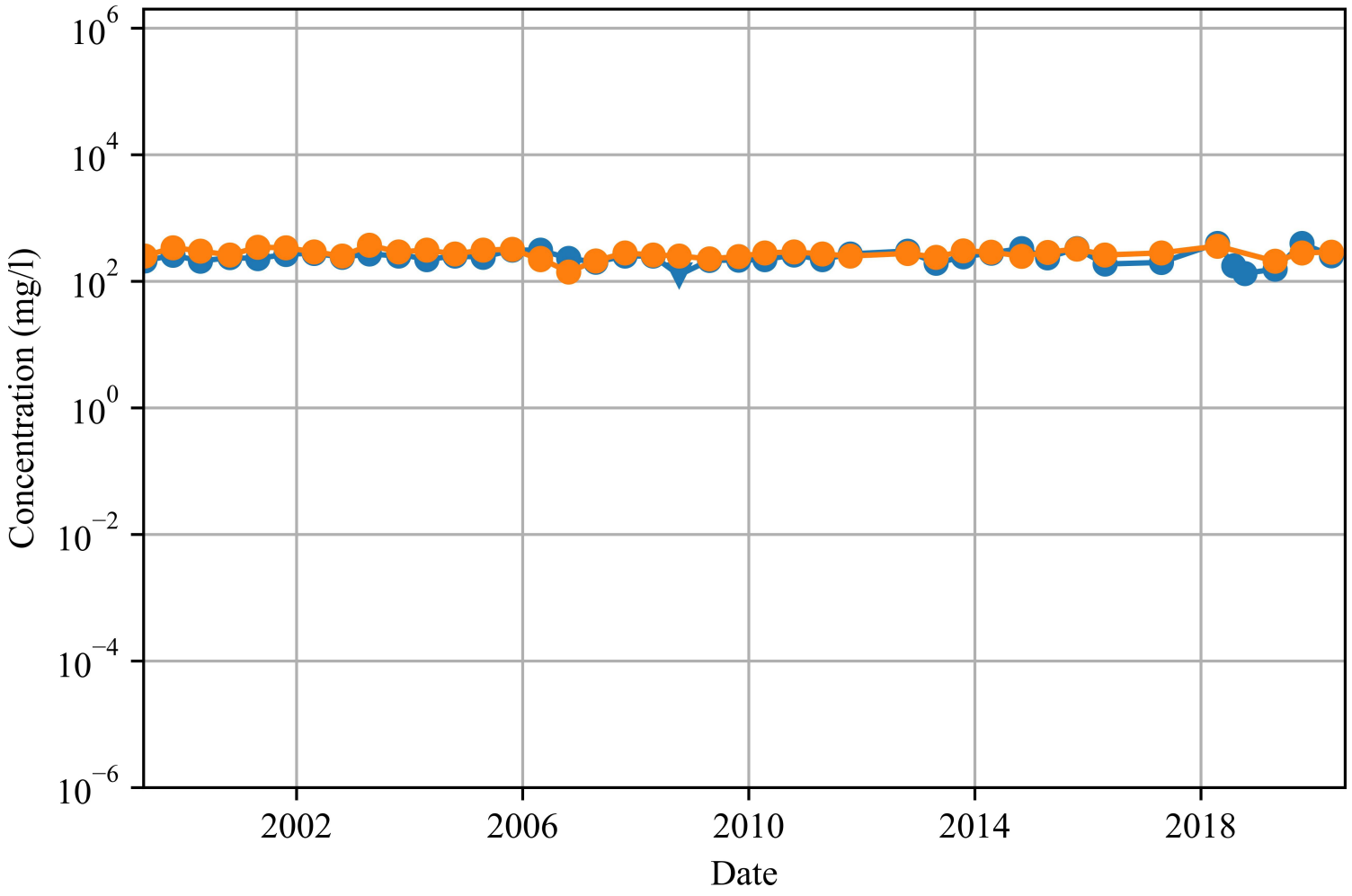
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-21:
Concentration vs. Time
Cells 1-7/WMA #5
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

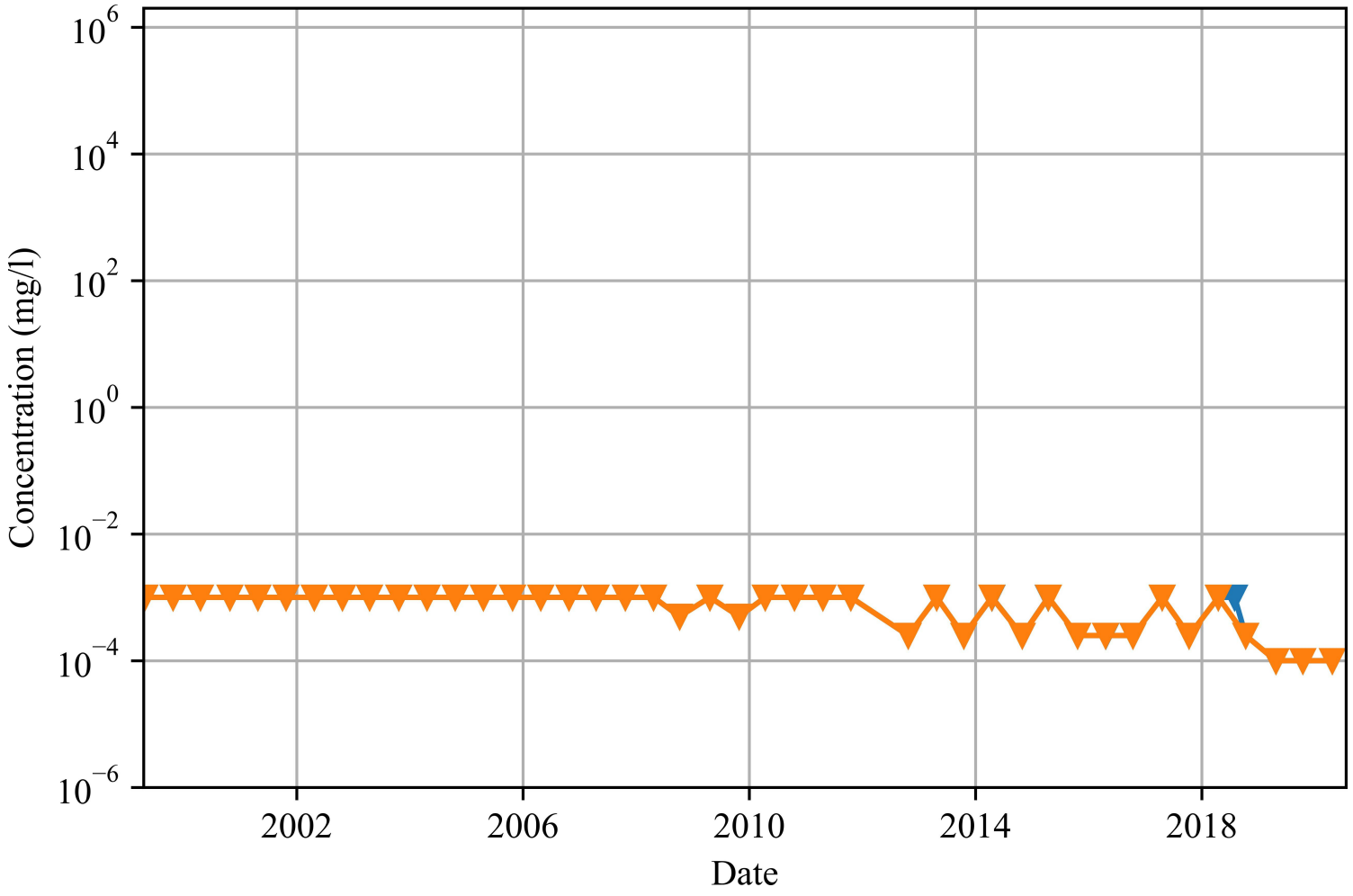
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-22:
Concentration vs. Time
Cells 1-7/WMA #5
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

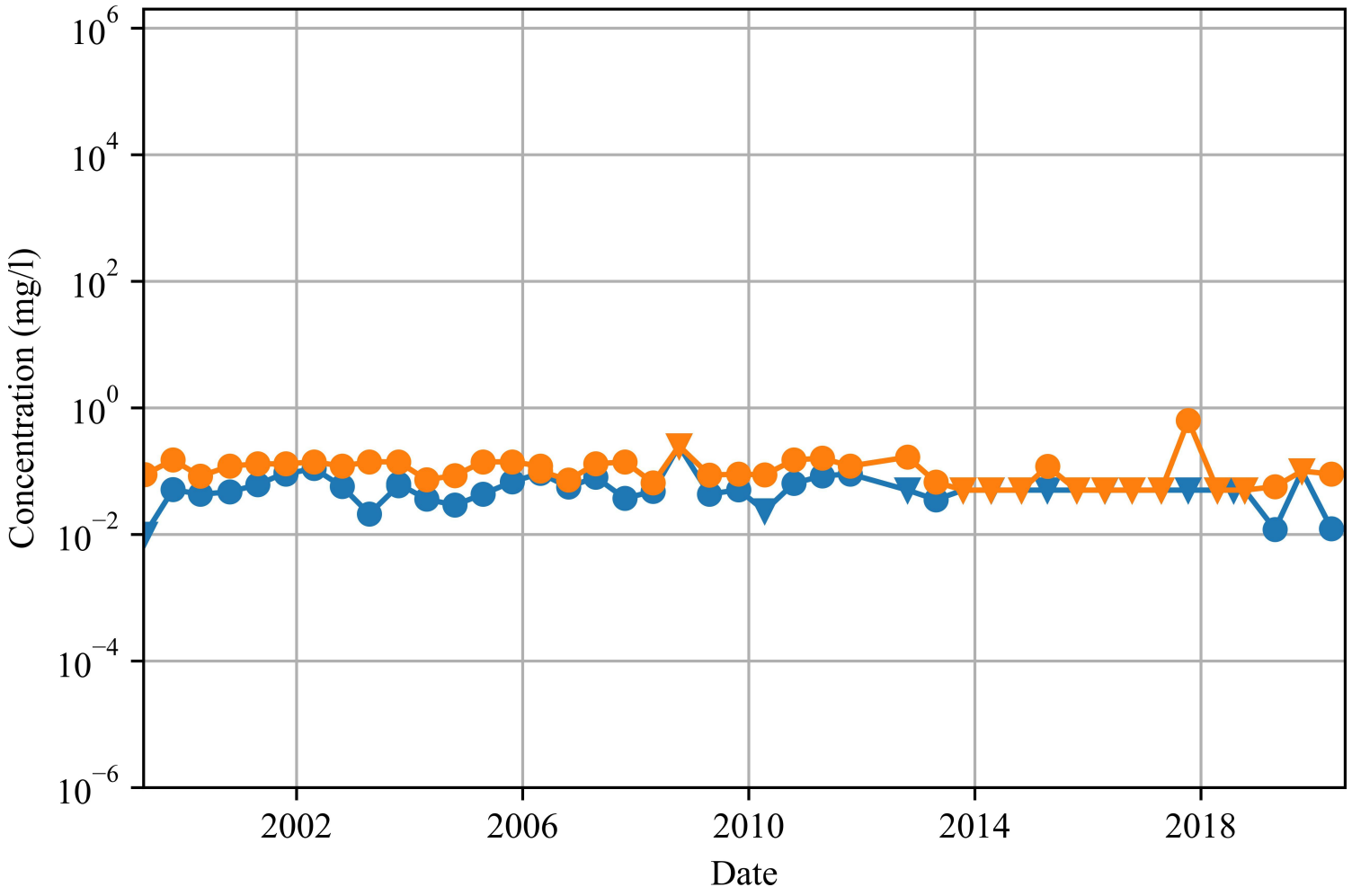
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-23:
Concentration vs. Time
Cells 1-7/WMA #5
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

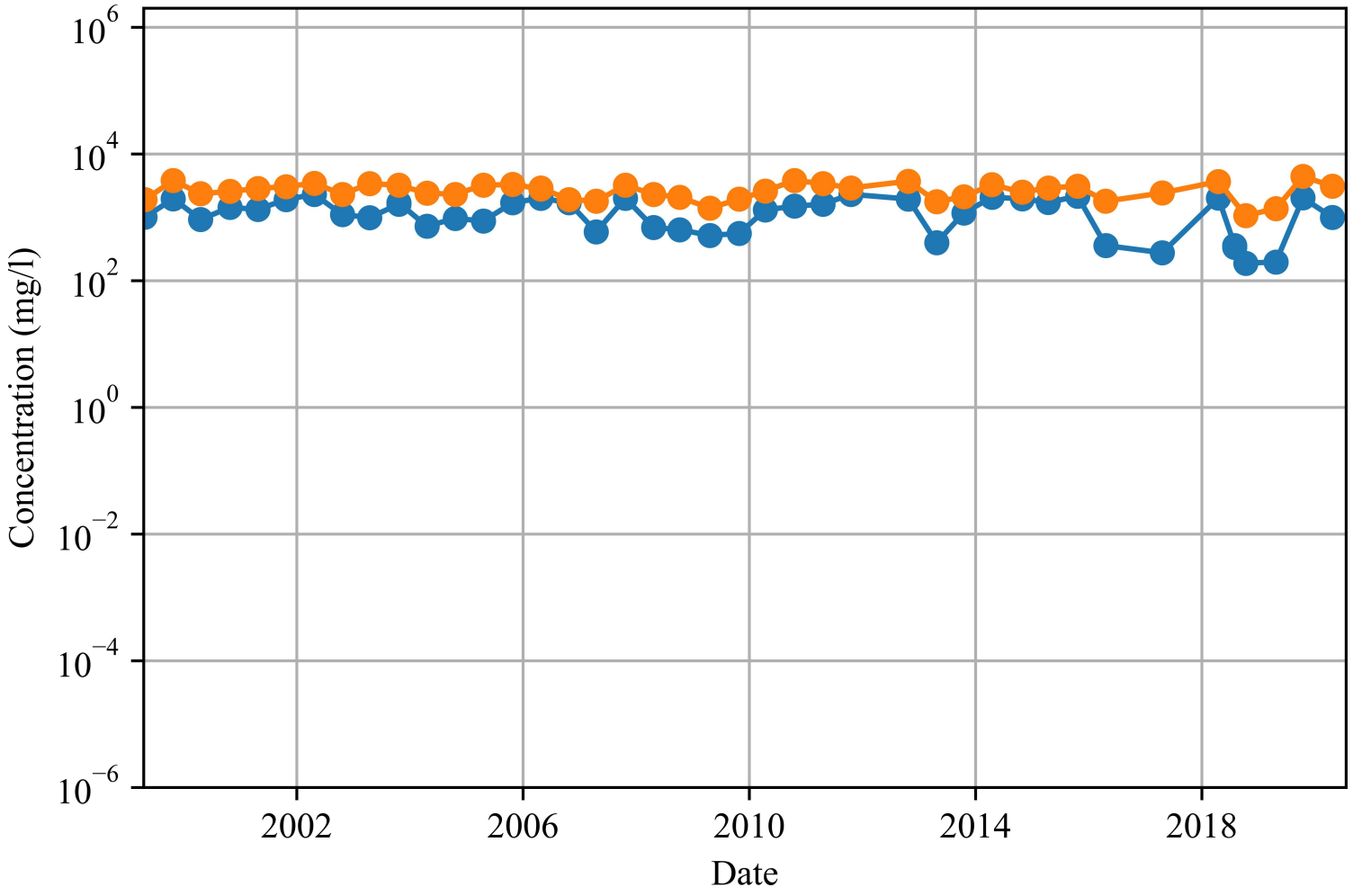
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-24:
Concentration vs. Time
Cells 1-7/WMA #5
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

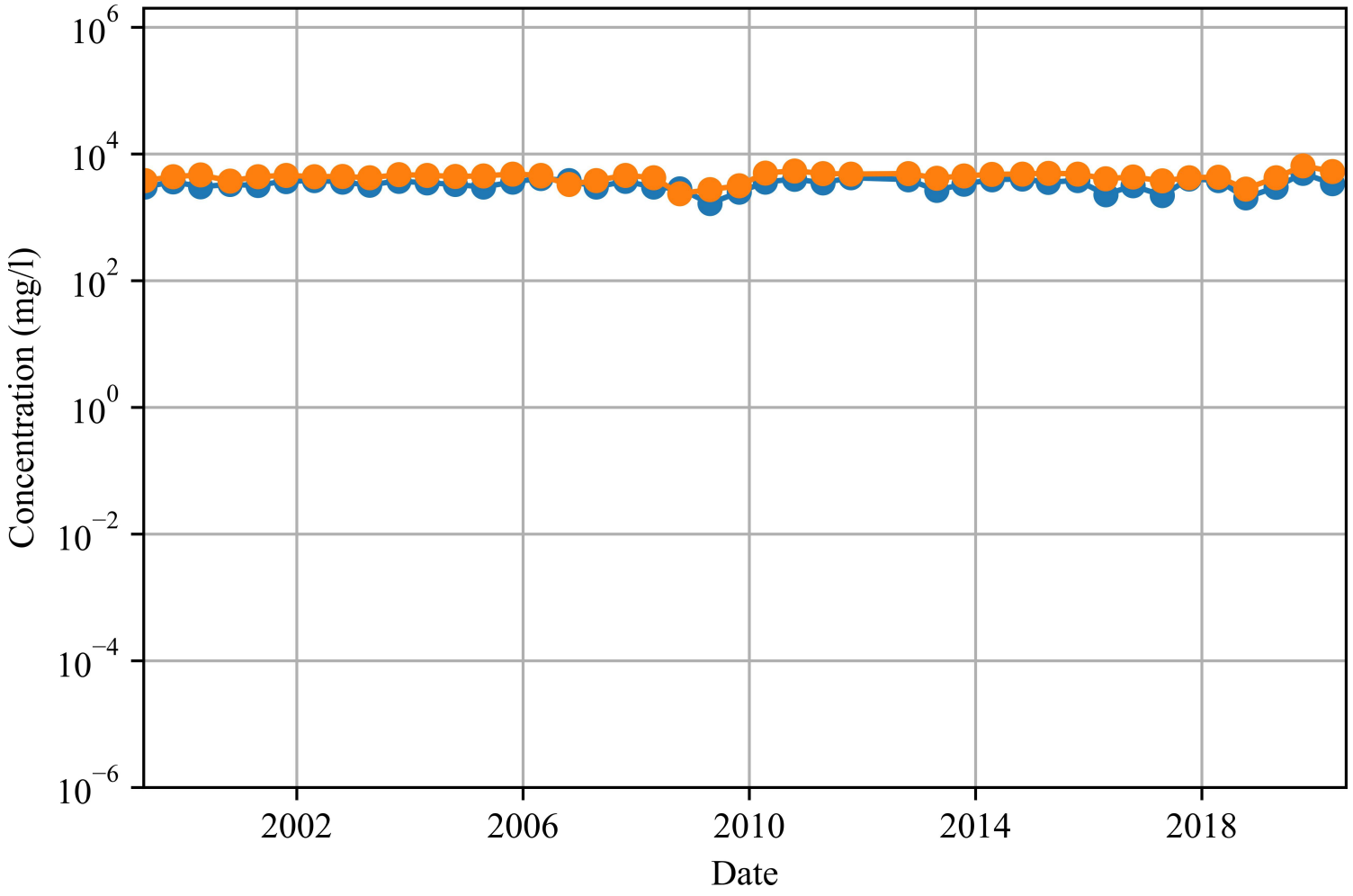
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-25:
Concentration vs. Time
Cells 1-7/WMA #5
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 6A1
- MW 6A2
- Detect
- Non-detect

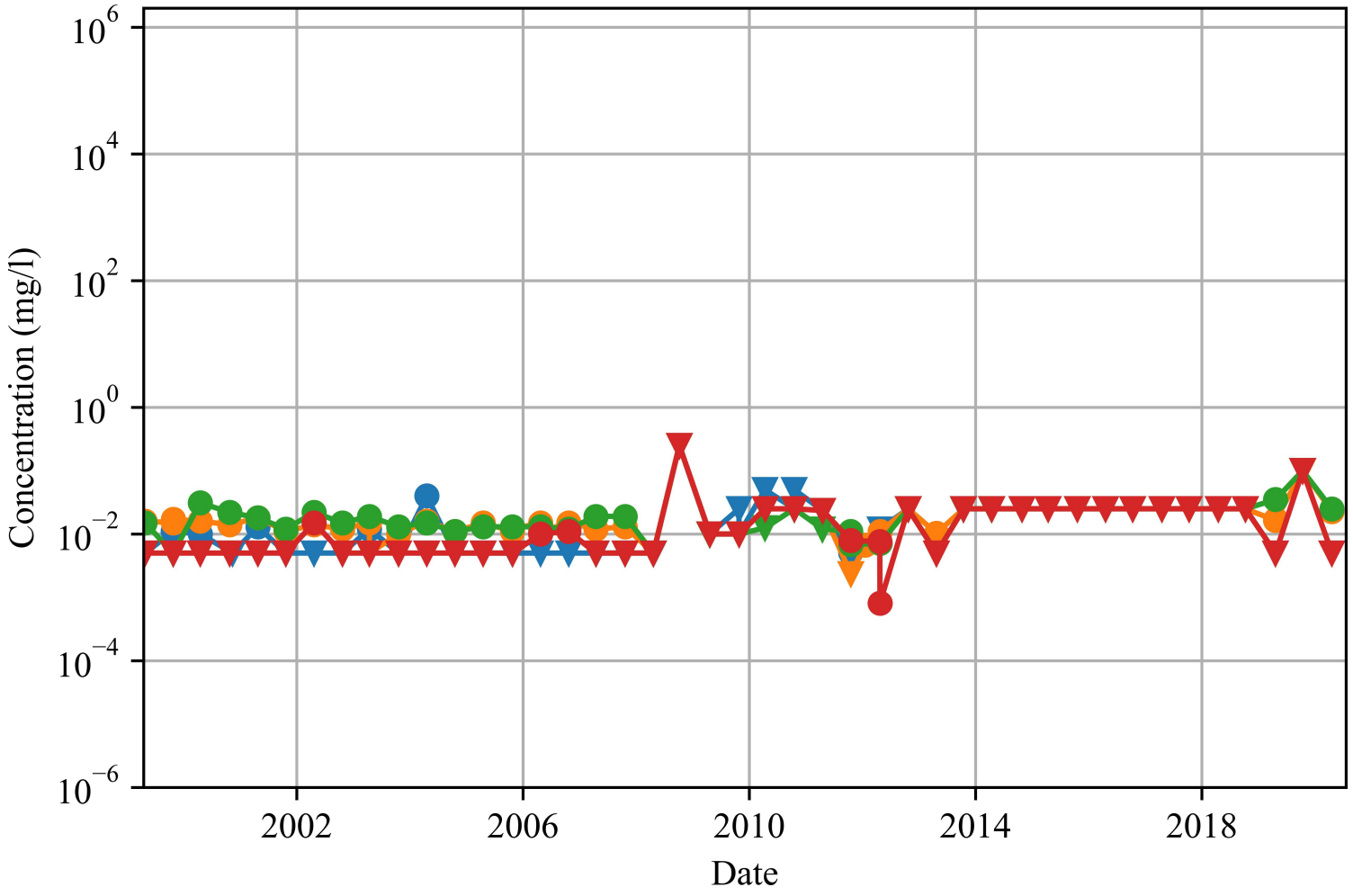
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-26:
Concentration vs. Time
Cells 1-7/WMA #5
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

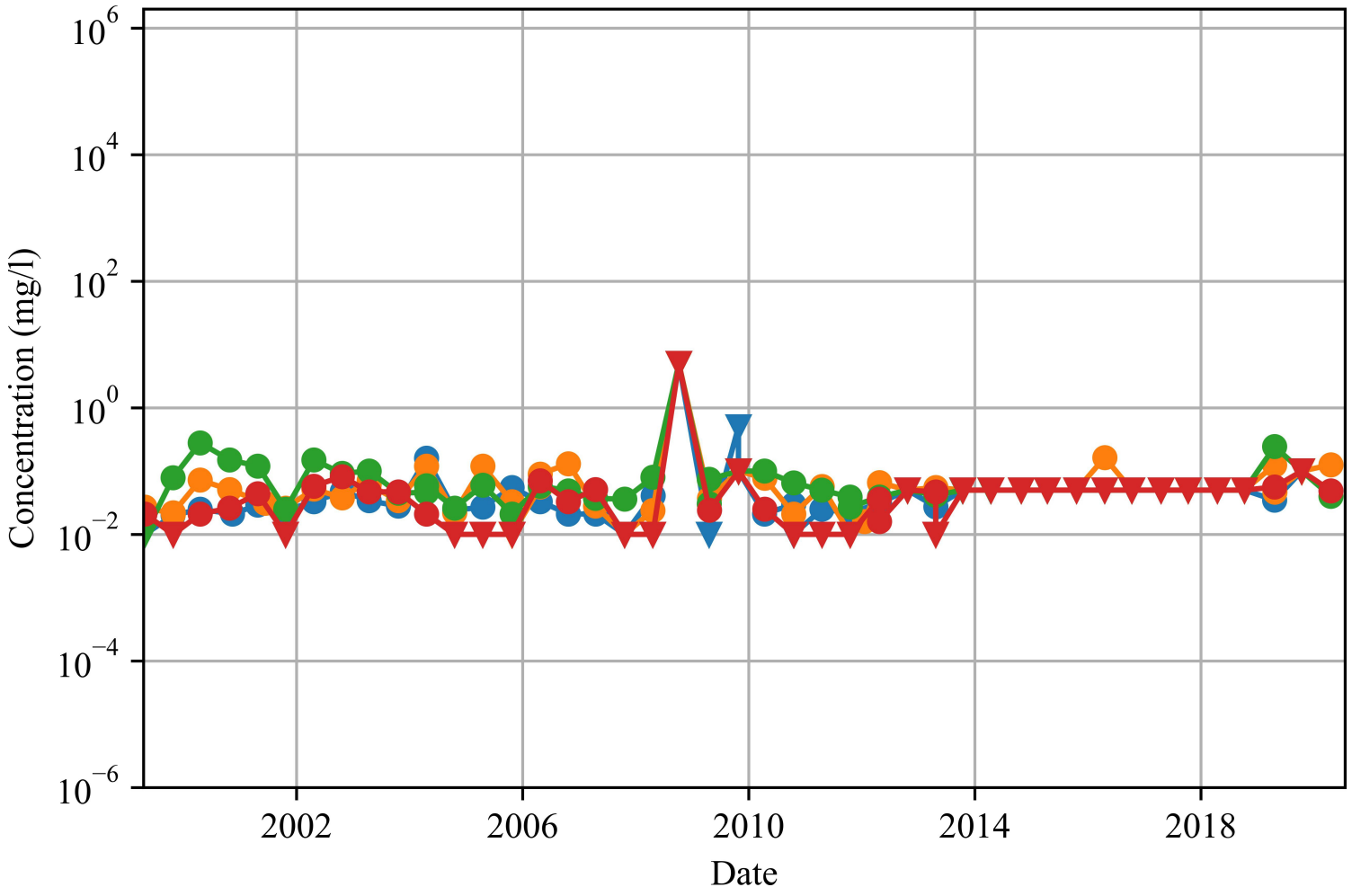
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-27:
Concentration vs. Time
Cell 14/WMA #9
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

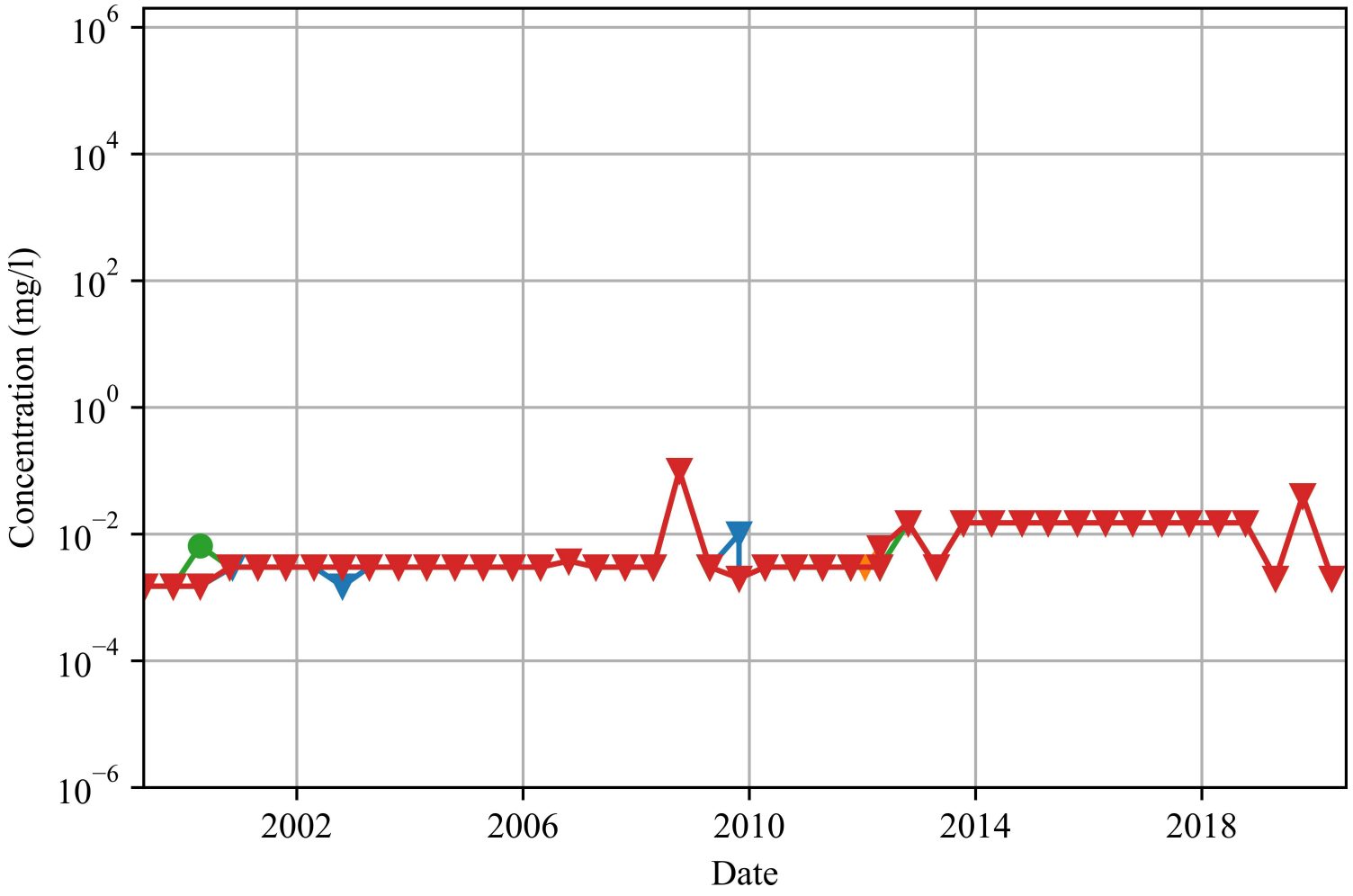
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-28:
Concentration vs. Time
Cell 14/WMA #9
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

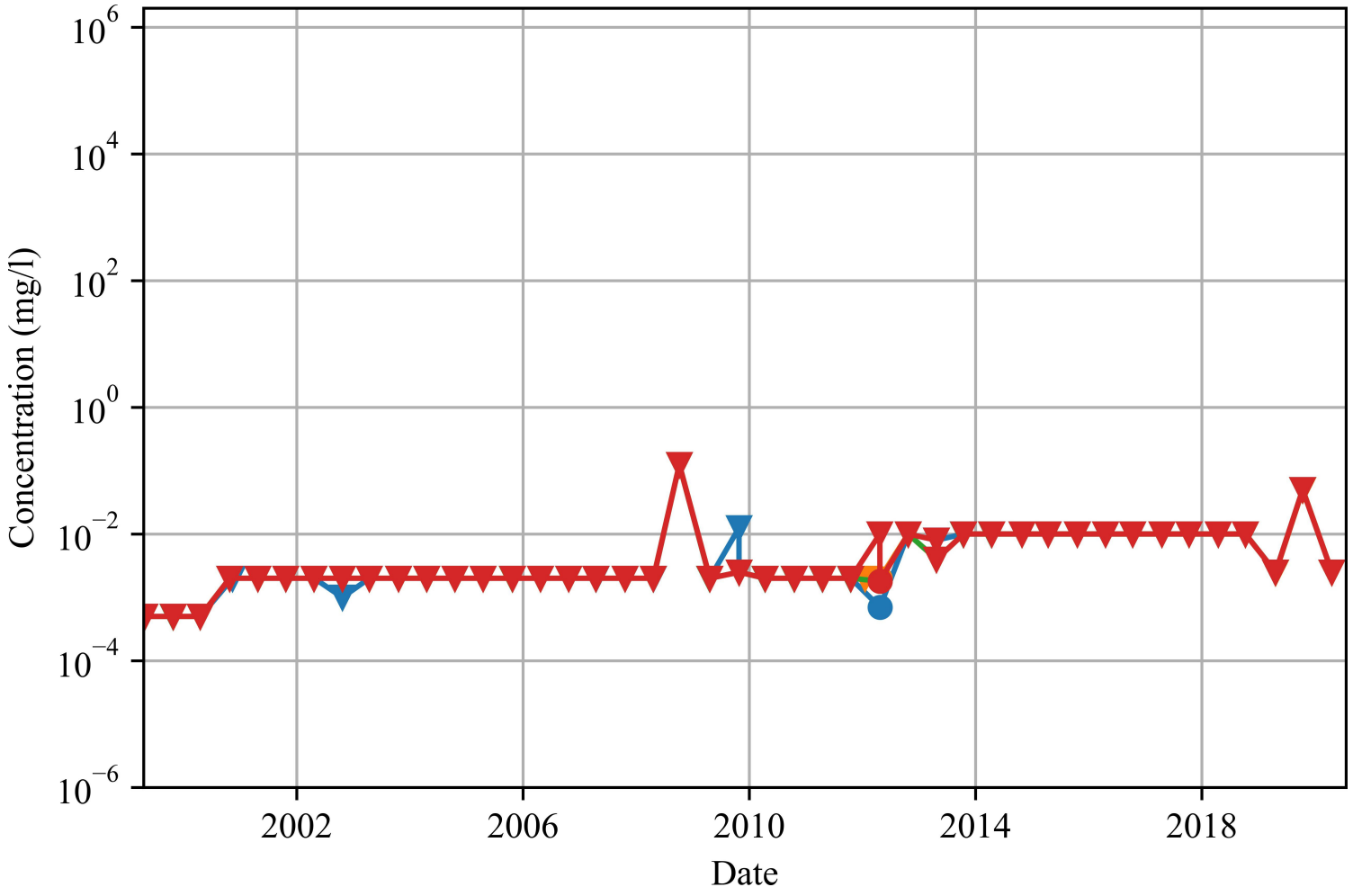
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-29:
Concentration vs. Time
Cell 14/WMA #9
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

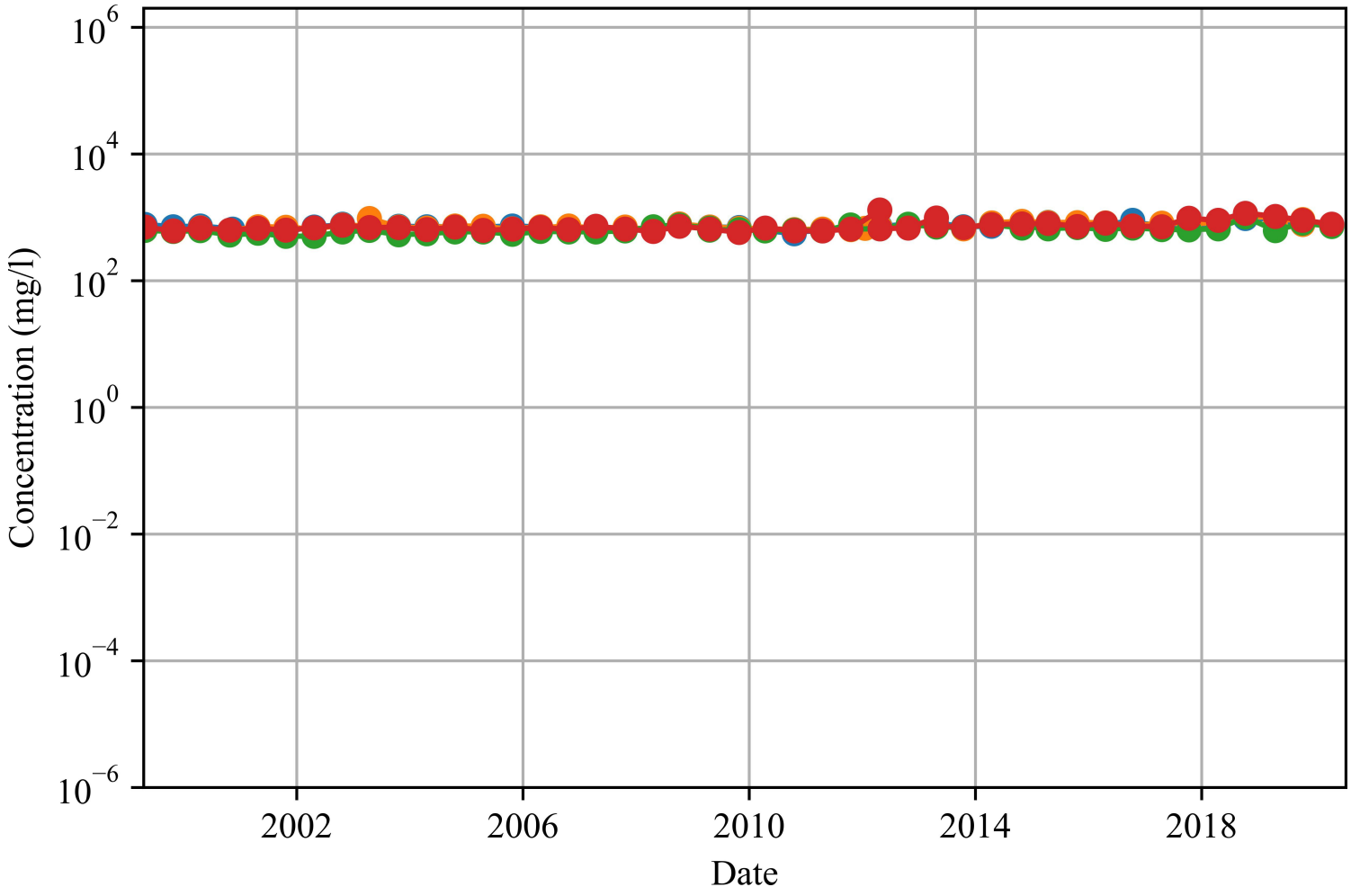
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-30:
Concentration vs. Time
Cell 14/WMA #9
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

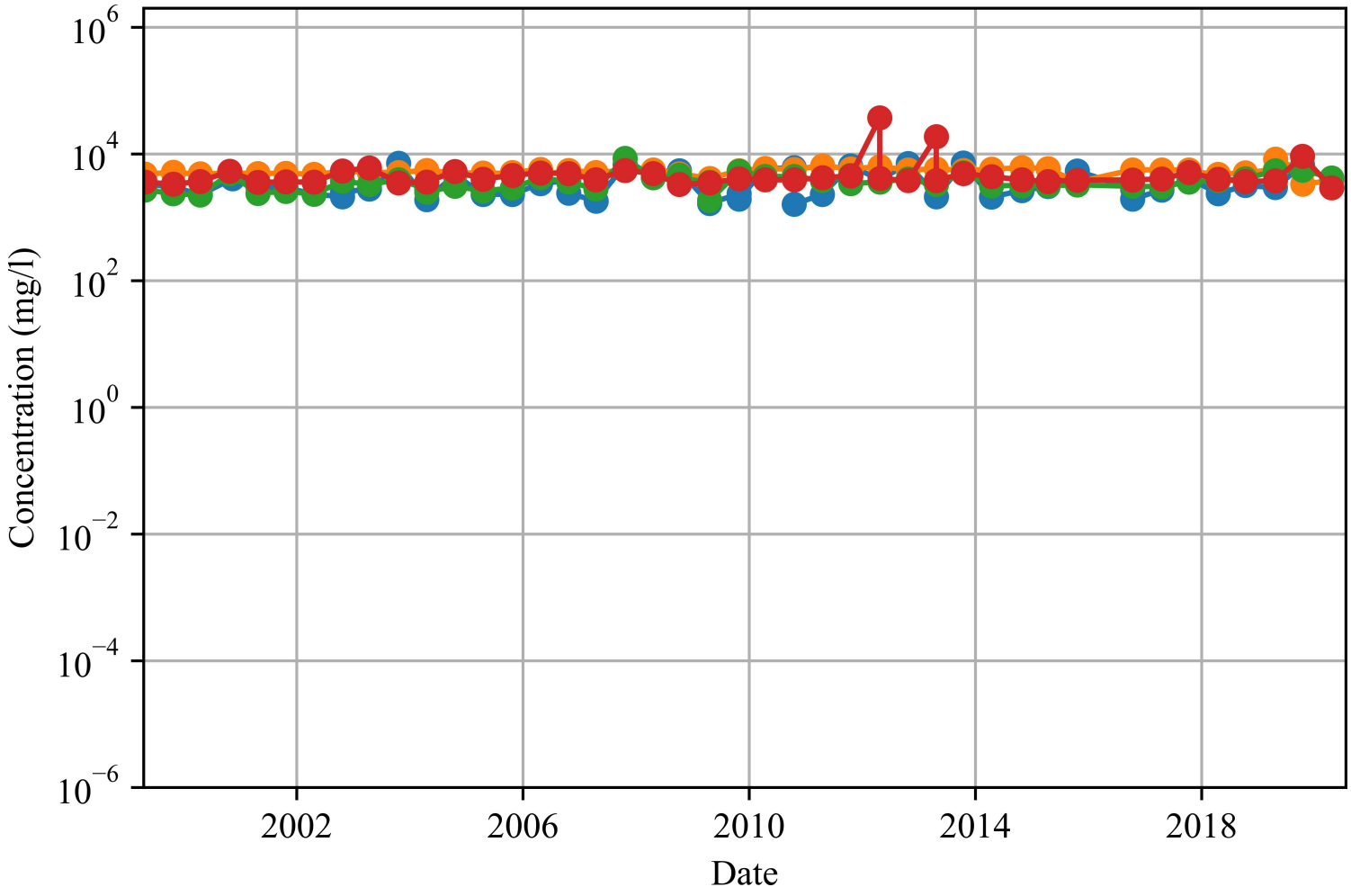
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-31:
Concentration vs. Time
Cell 14/WMA #9
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

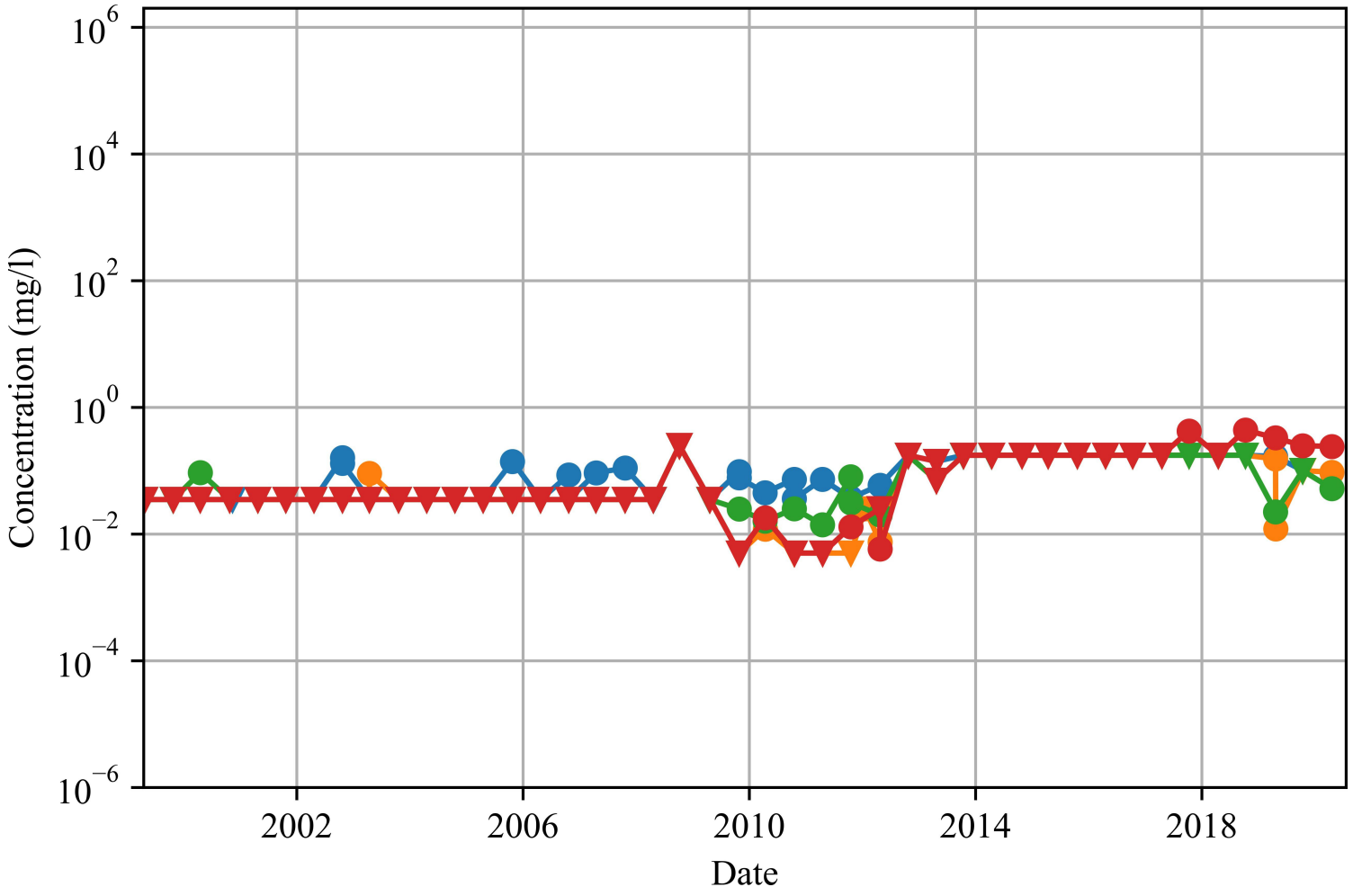
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-32:
Concentration vs. Time
Cell 14/WMA #9
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

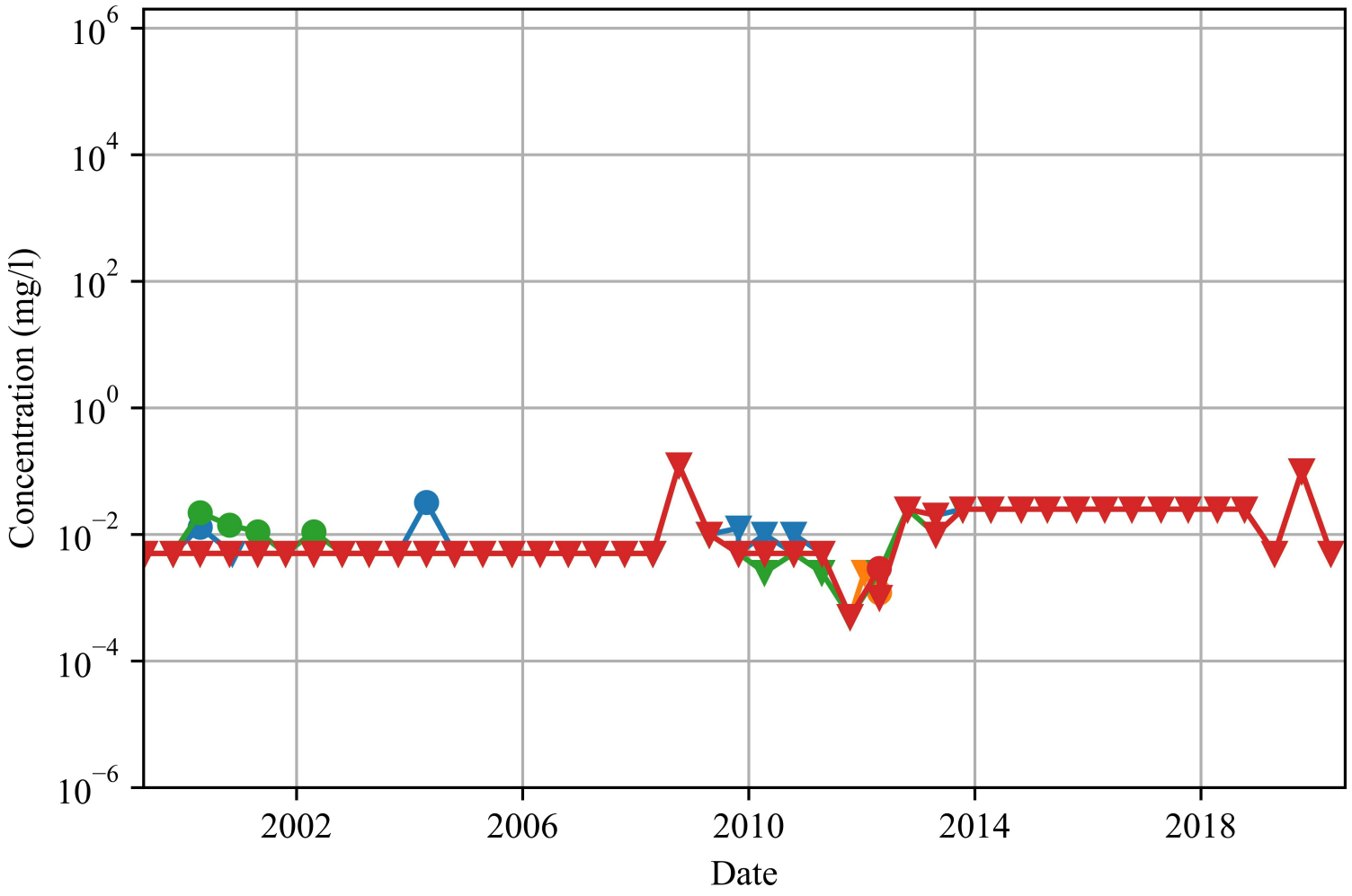
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-33:
Concentration vs. Time
Cell 14/WMA #9
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

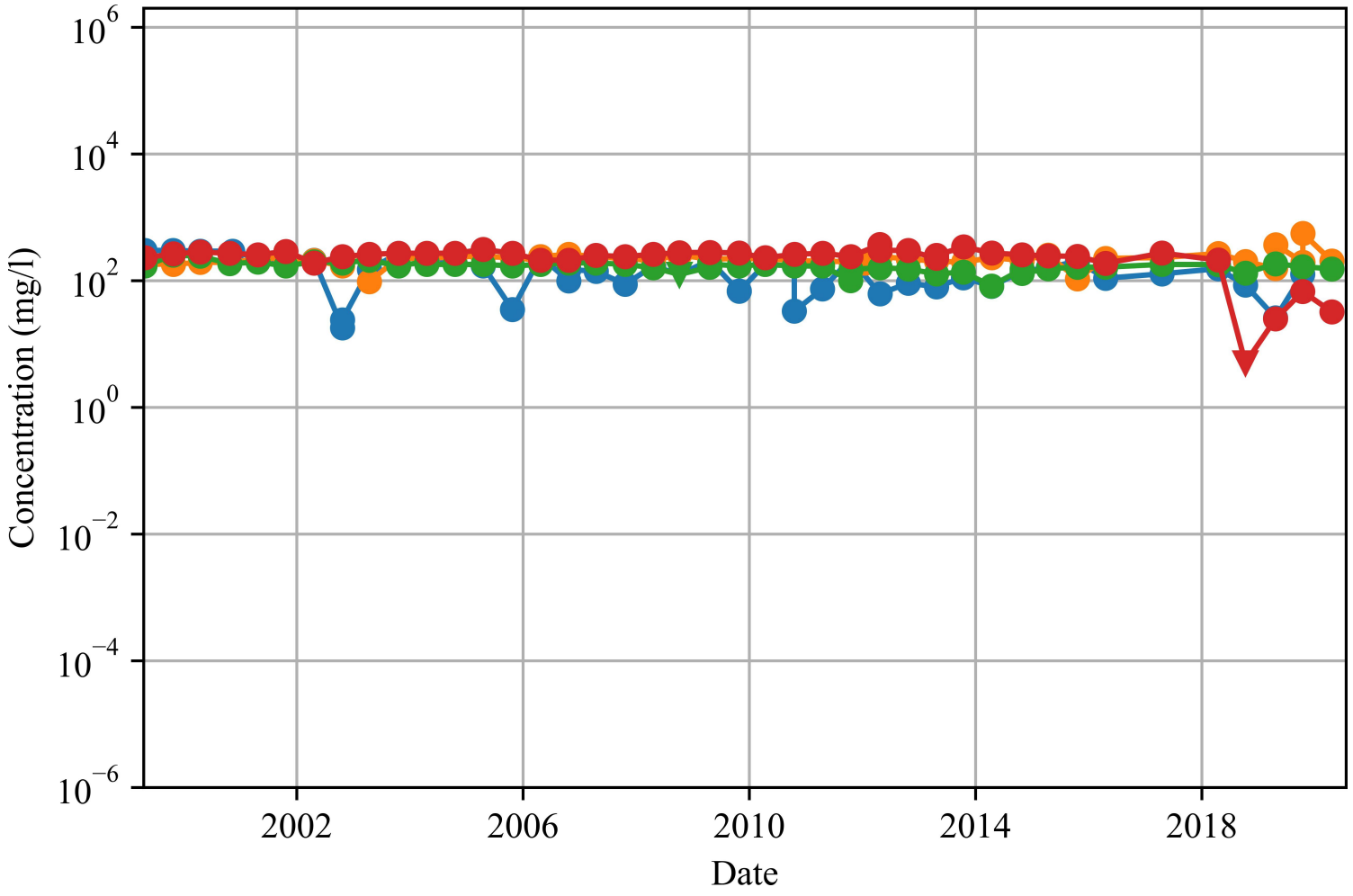
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-34:
Concentration vs. Time
Cell 14/WMA #9
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

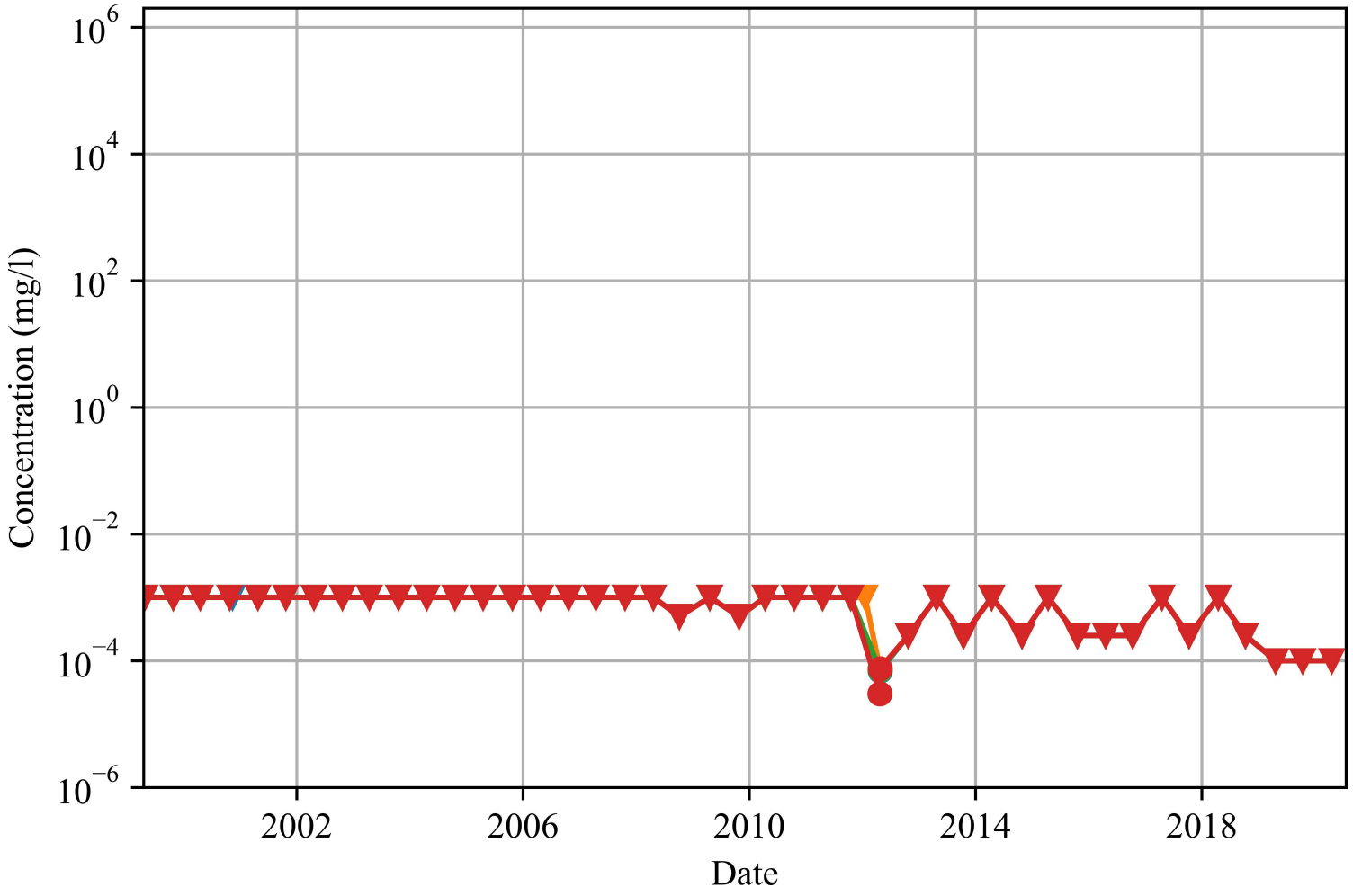
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-35:
Concentration vs. Time
Cell 14/WMA #9
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

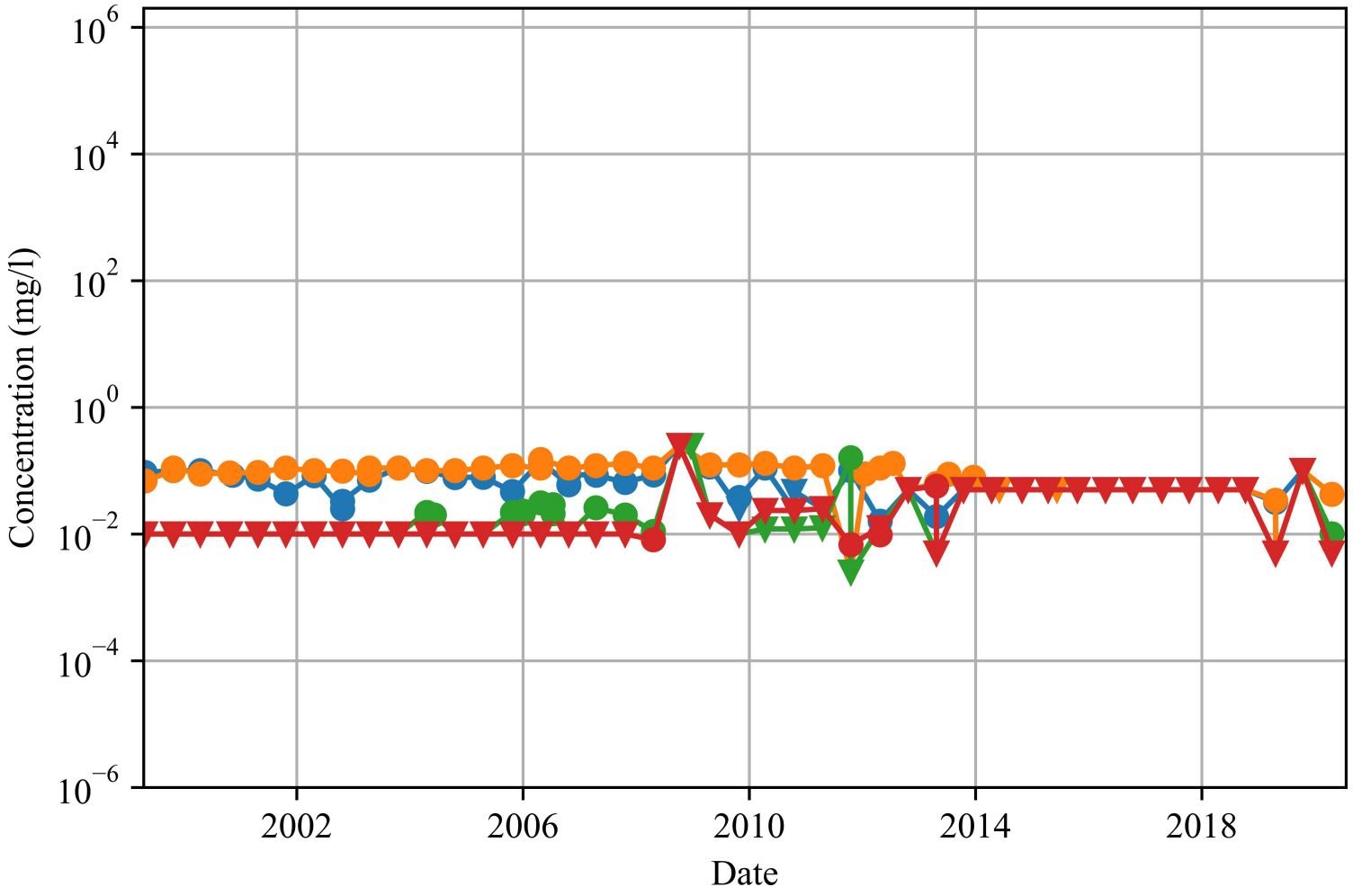
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-36:
Concentration vs. Time
Cell 14/WMA #9
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

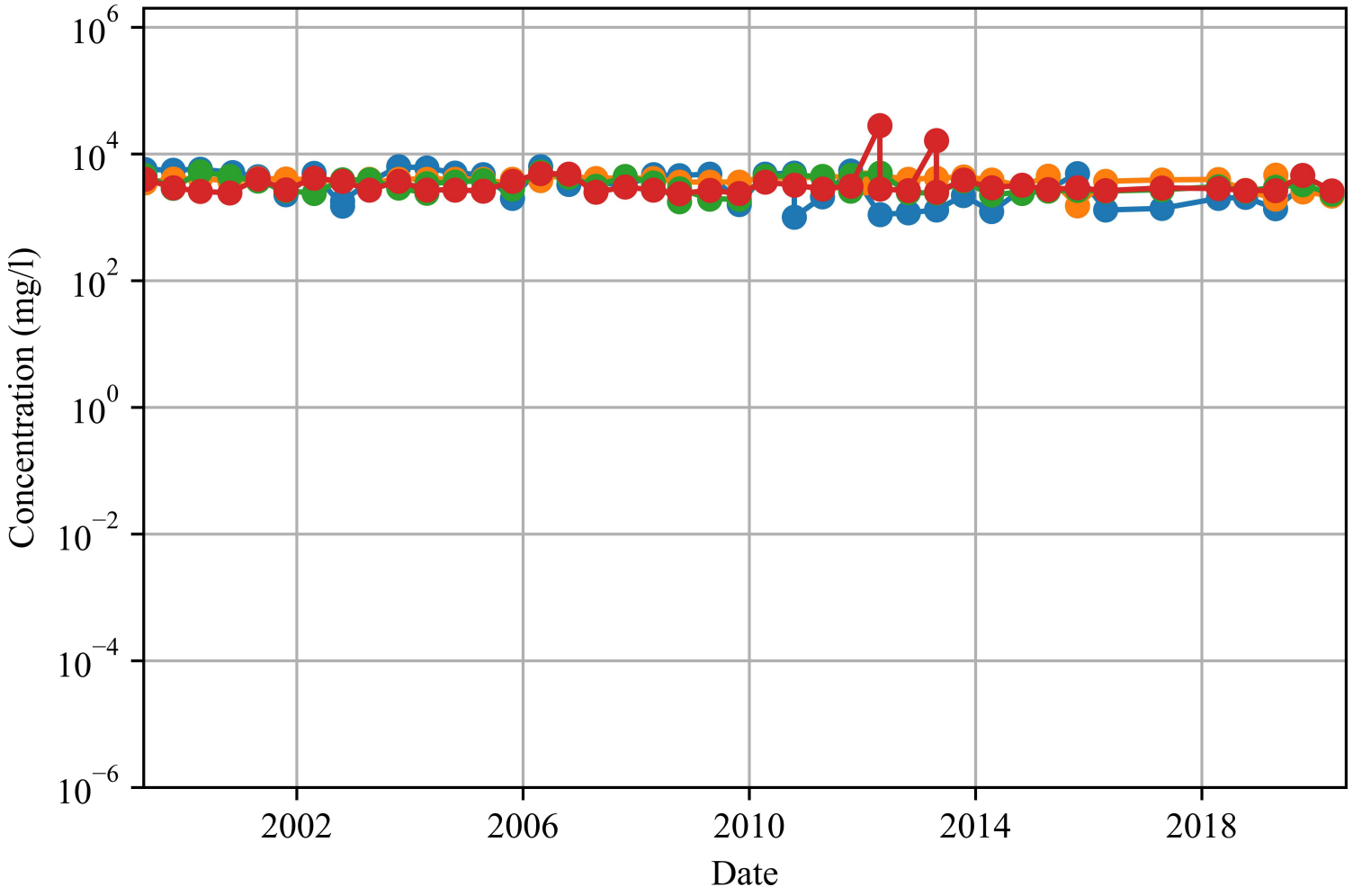
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-37:
Concentration vs. Time
Cell 14/WMA #9
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

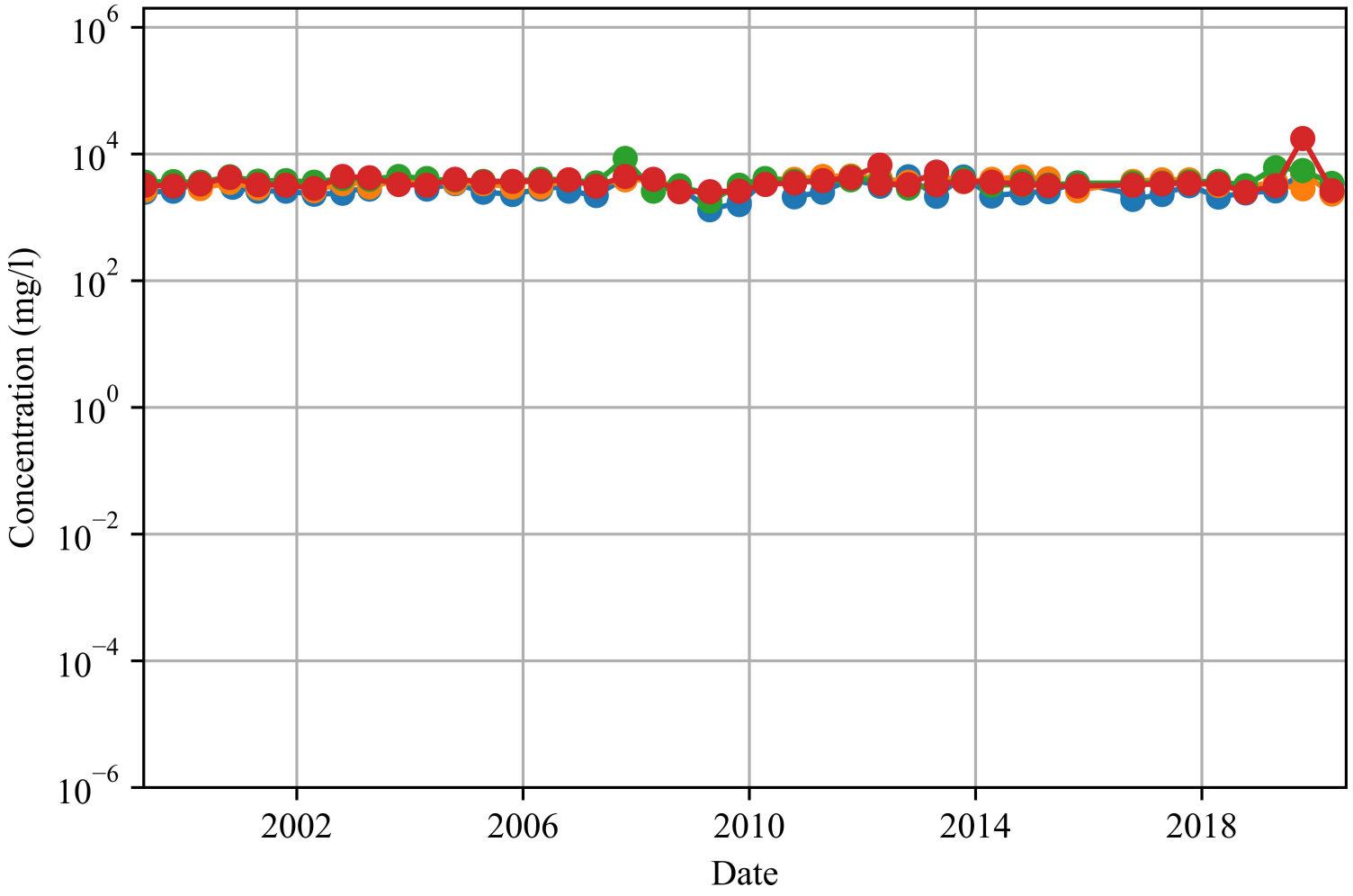
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-38:
Concentration vs. Time
Cell 14/WMA #9
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 14A1
- MW 14A2
- MW 14B1
- MW 14B2
- Detect
- Non-detect

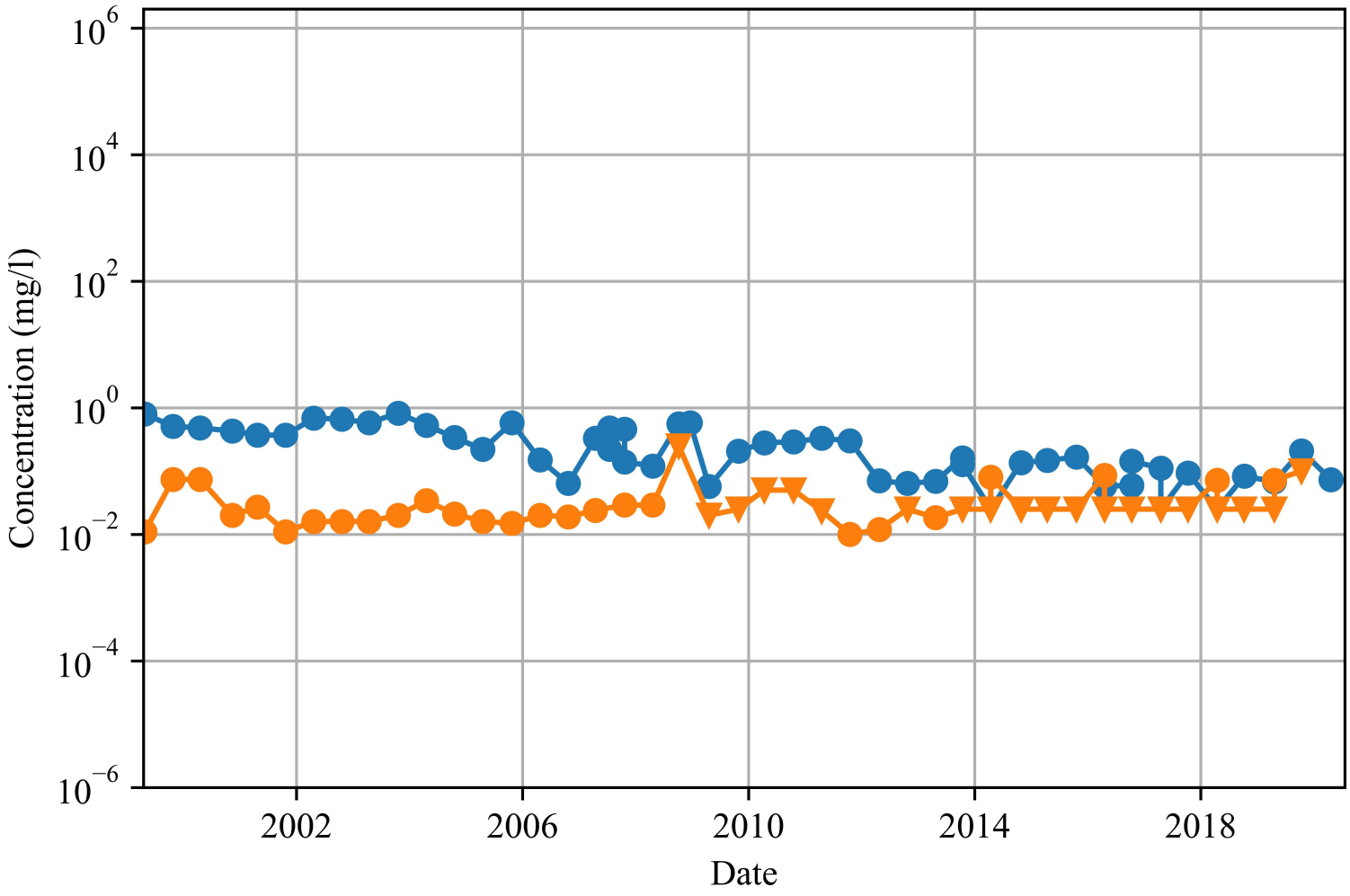
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-39:
Concentration vs. Time
Cell 14/WMA #9
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

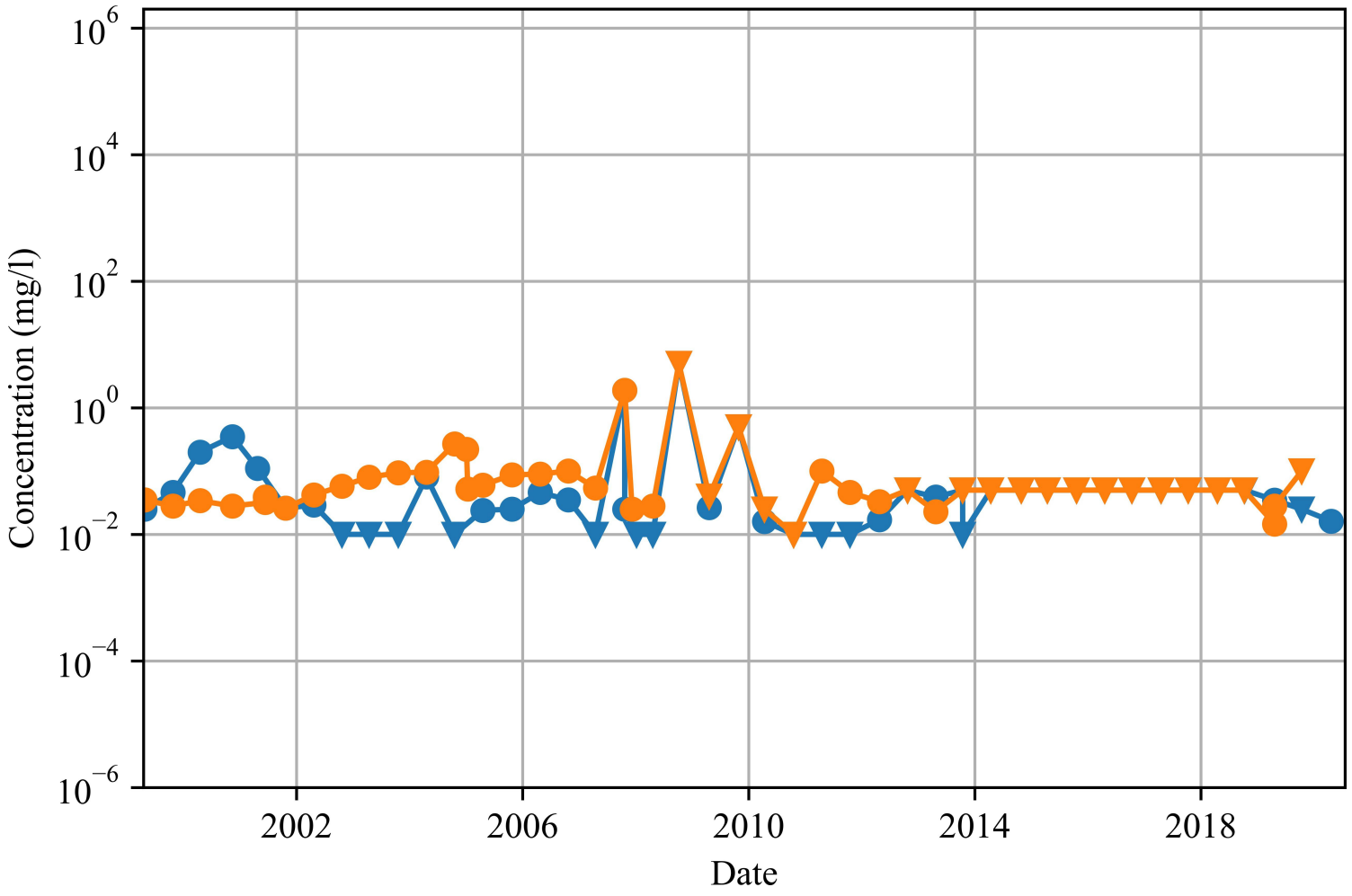
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-40:
Concentration vs. Time
Cell 13/WMA #6
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

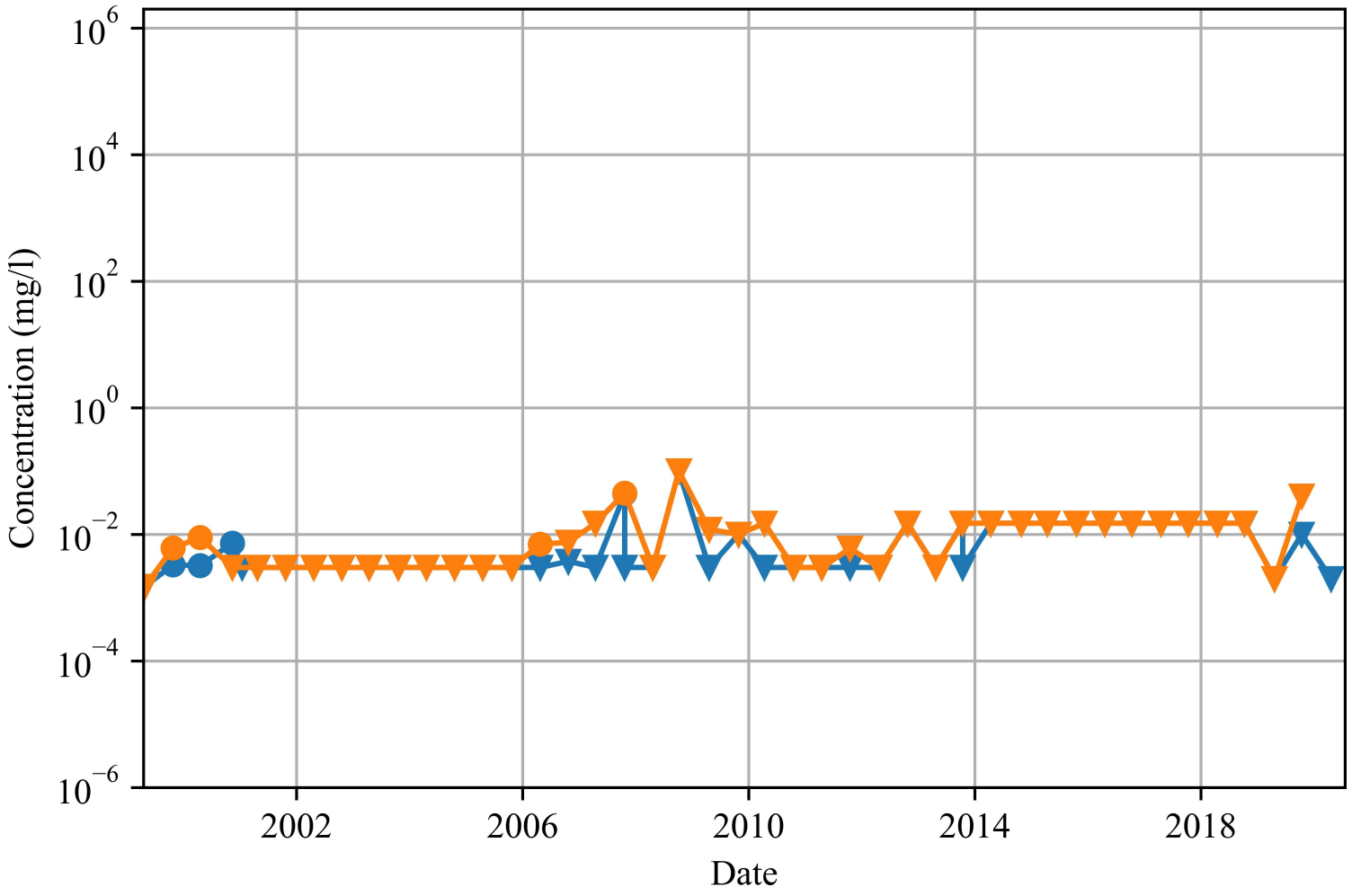
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-41:
Concentration vs. Time
Cell 13/WMA #6
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 13A1

MW 13A2

Detect

Non-detect

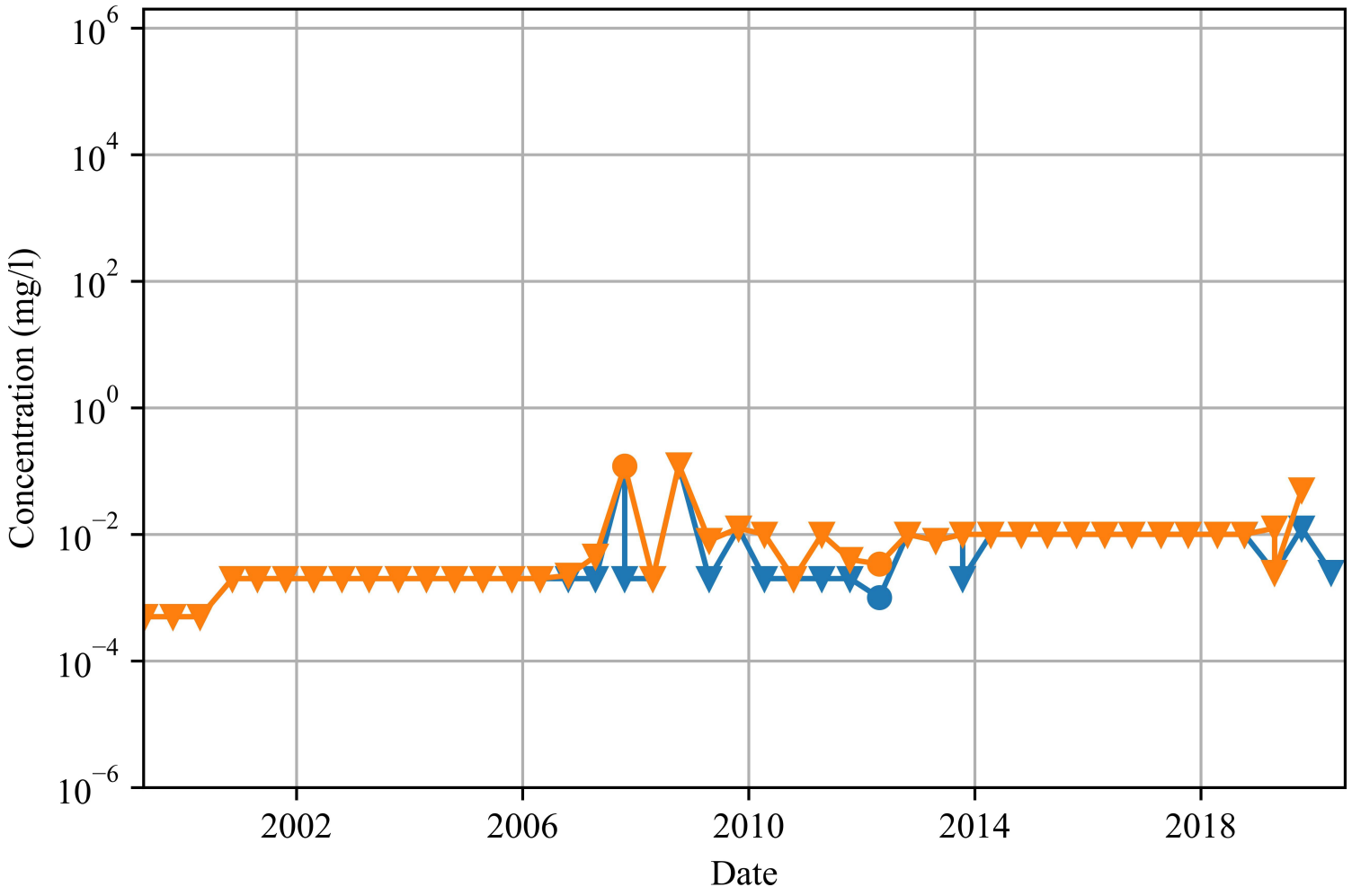
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-42:
Concentration vs. Time
Cell 13/WMA #6
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 13A1

MW 13A2

Detect

Non-detect

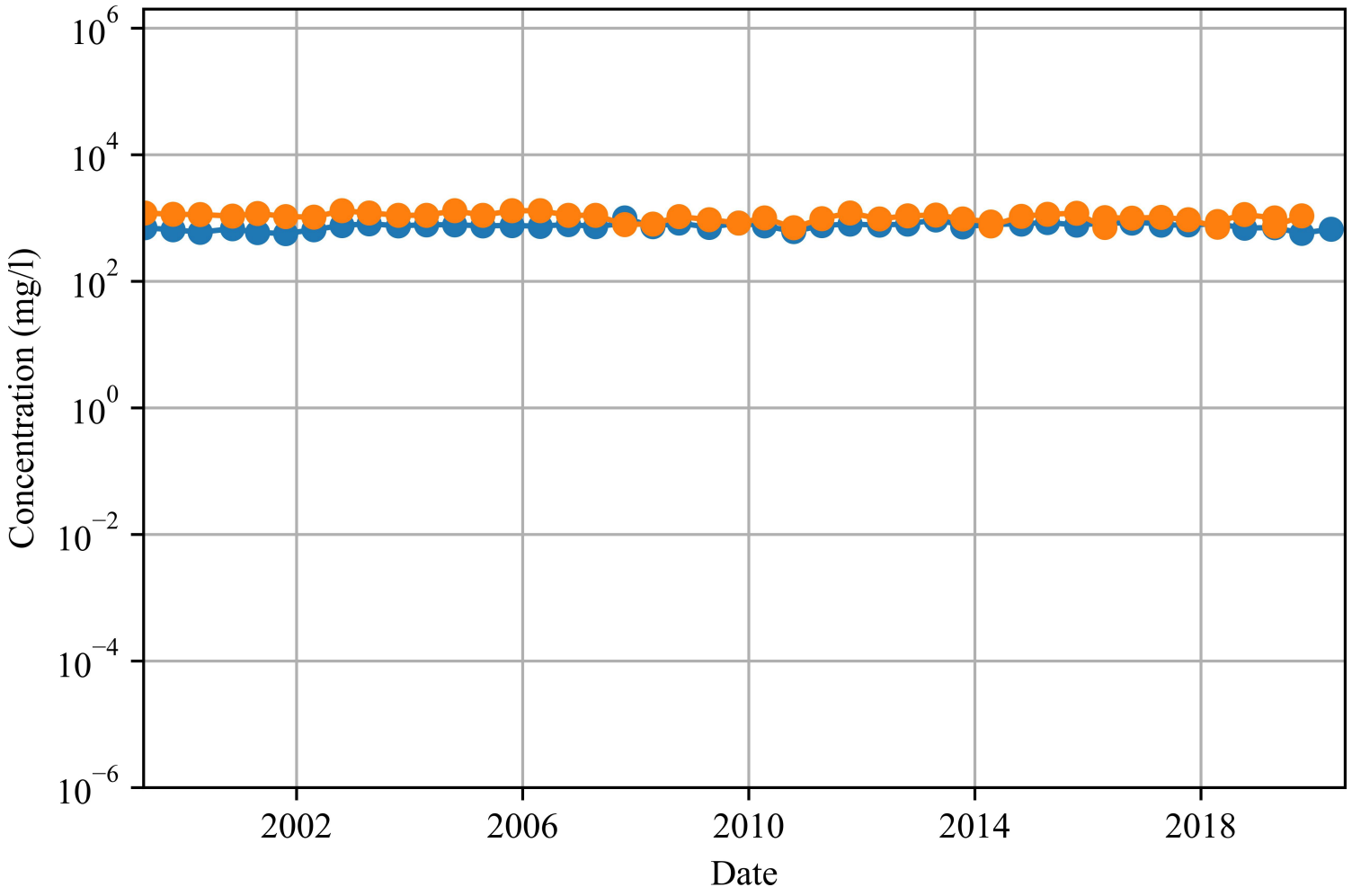
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-43:
Concentration vs. Time
Cell 13/WMA #6
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

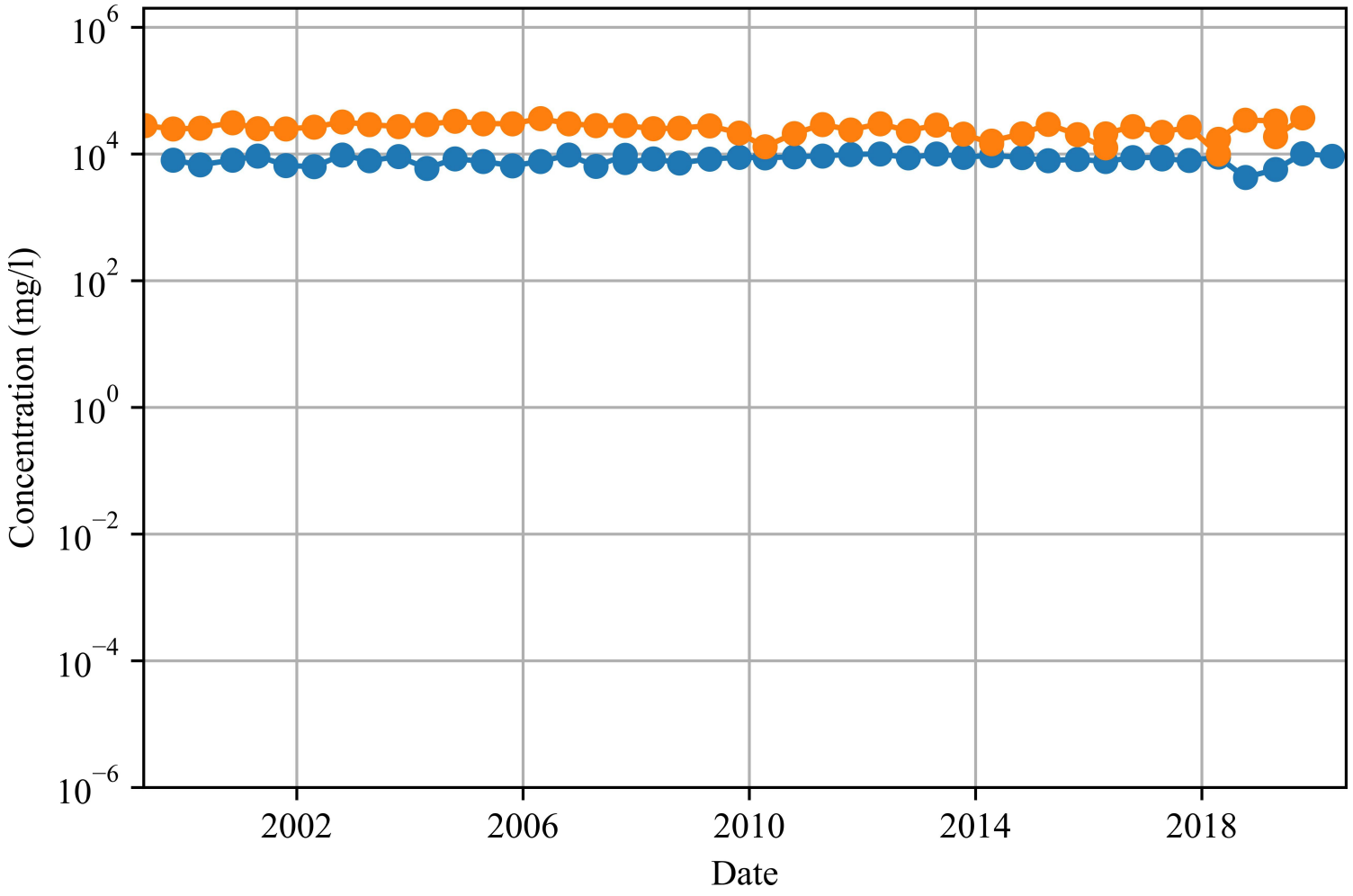
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-44:
Concentration vs. Time
Cell 13/WMA #6
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

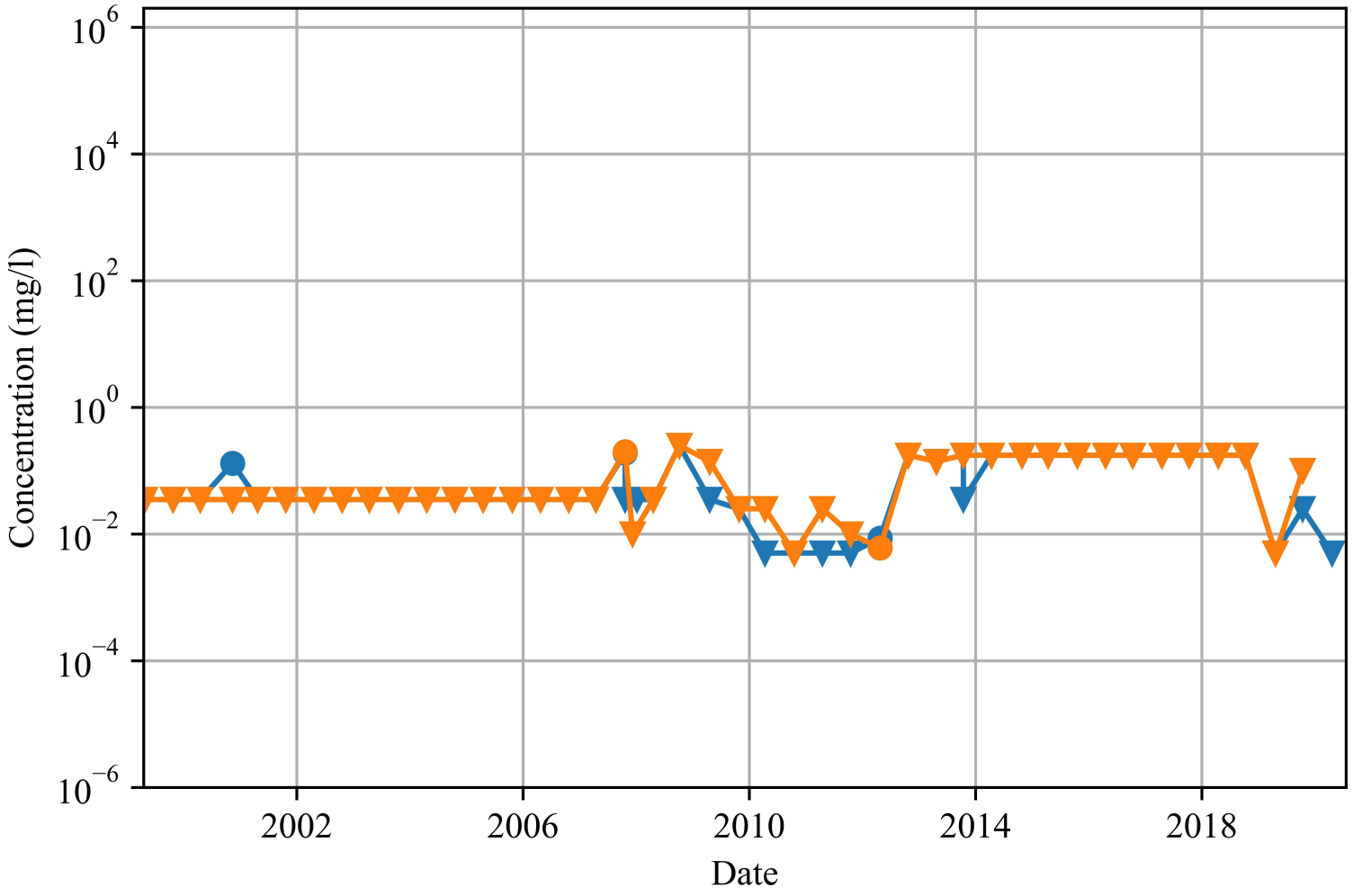
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-45:
Concentration vs. Time
Cell 13/WMA #6
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

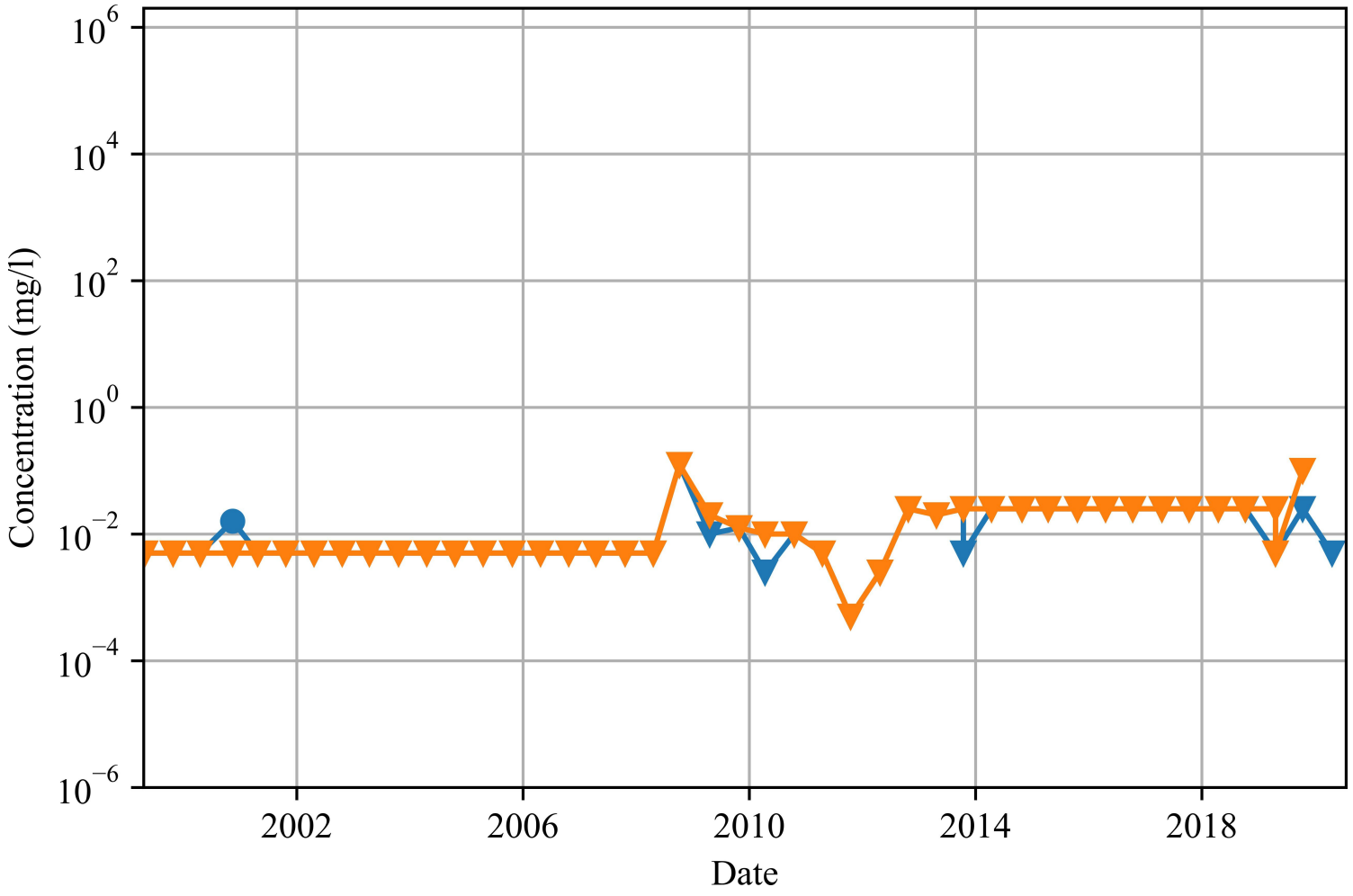
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-46:
Concentration vs. Time
Cell 13/WMA #6
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 13A1

MW 13A2

Detect

Non-detect

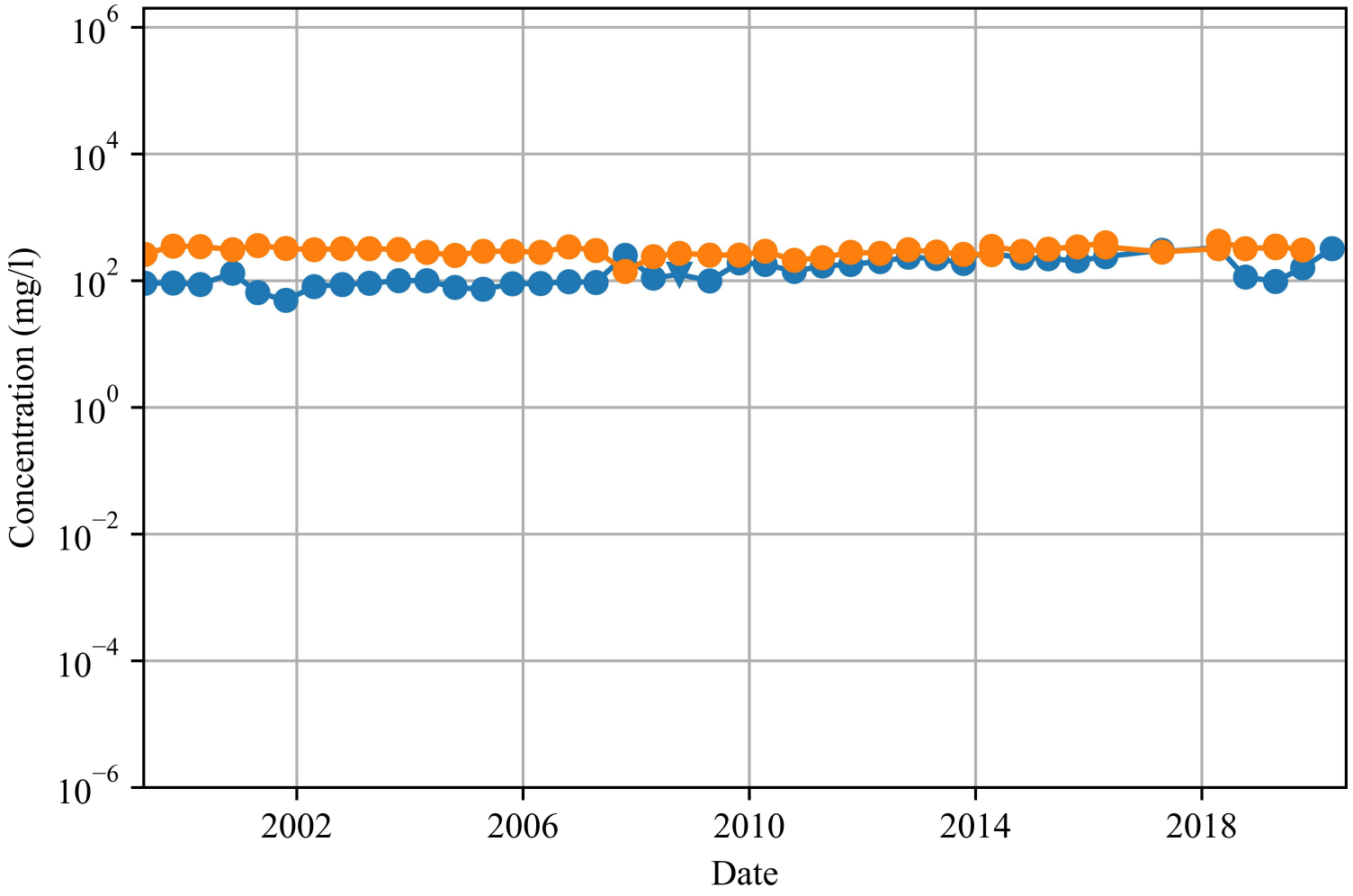
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-47:
Concentration vs. Time
Cell 13/WMA #6
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

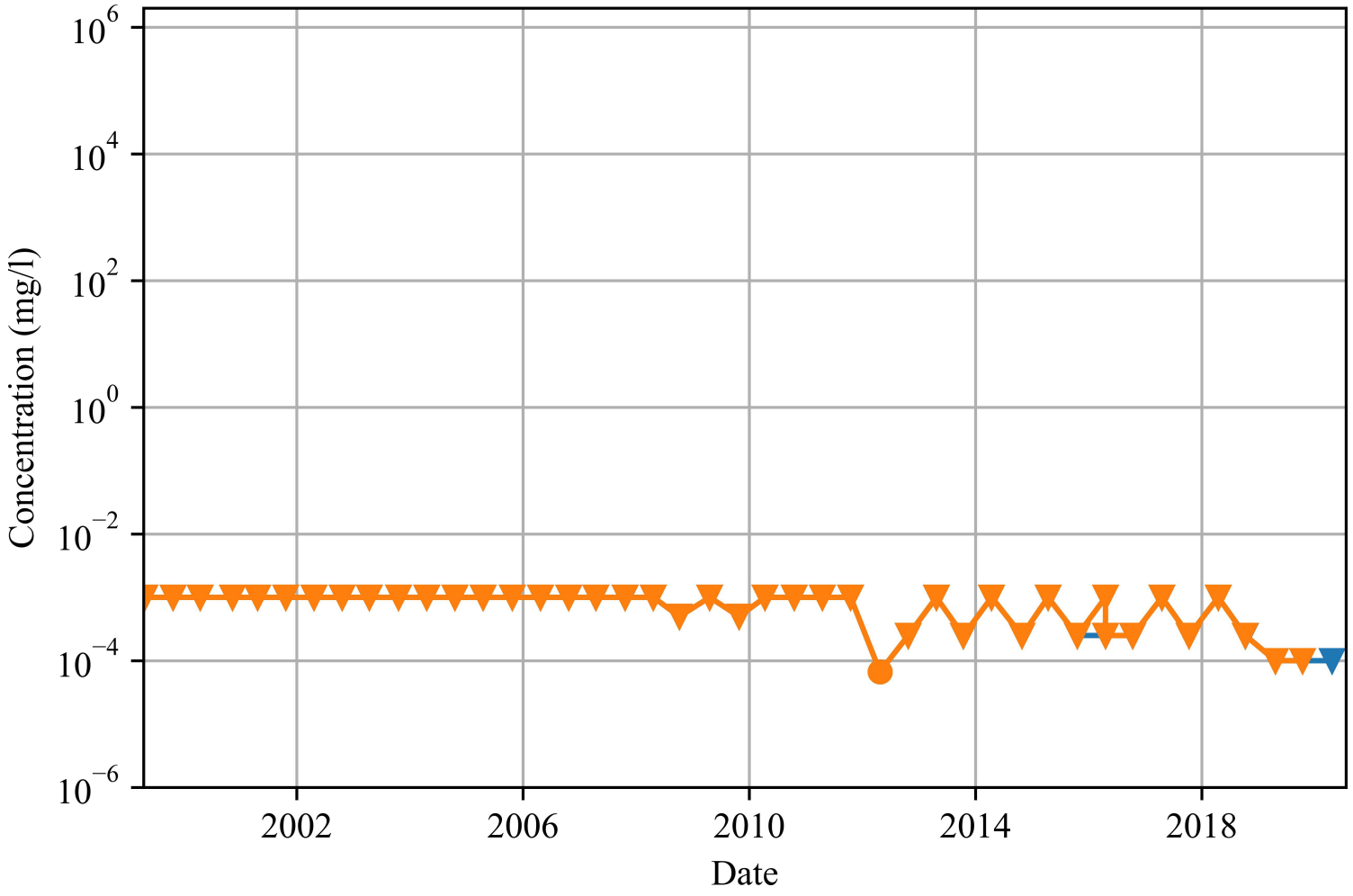
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-48:
Concentration vs. Time
Cell 13/WMA #6
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

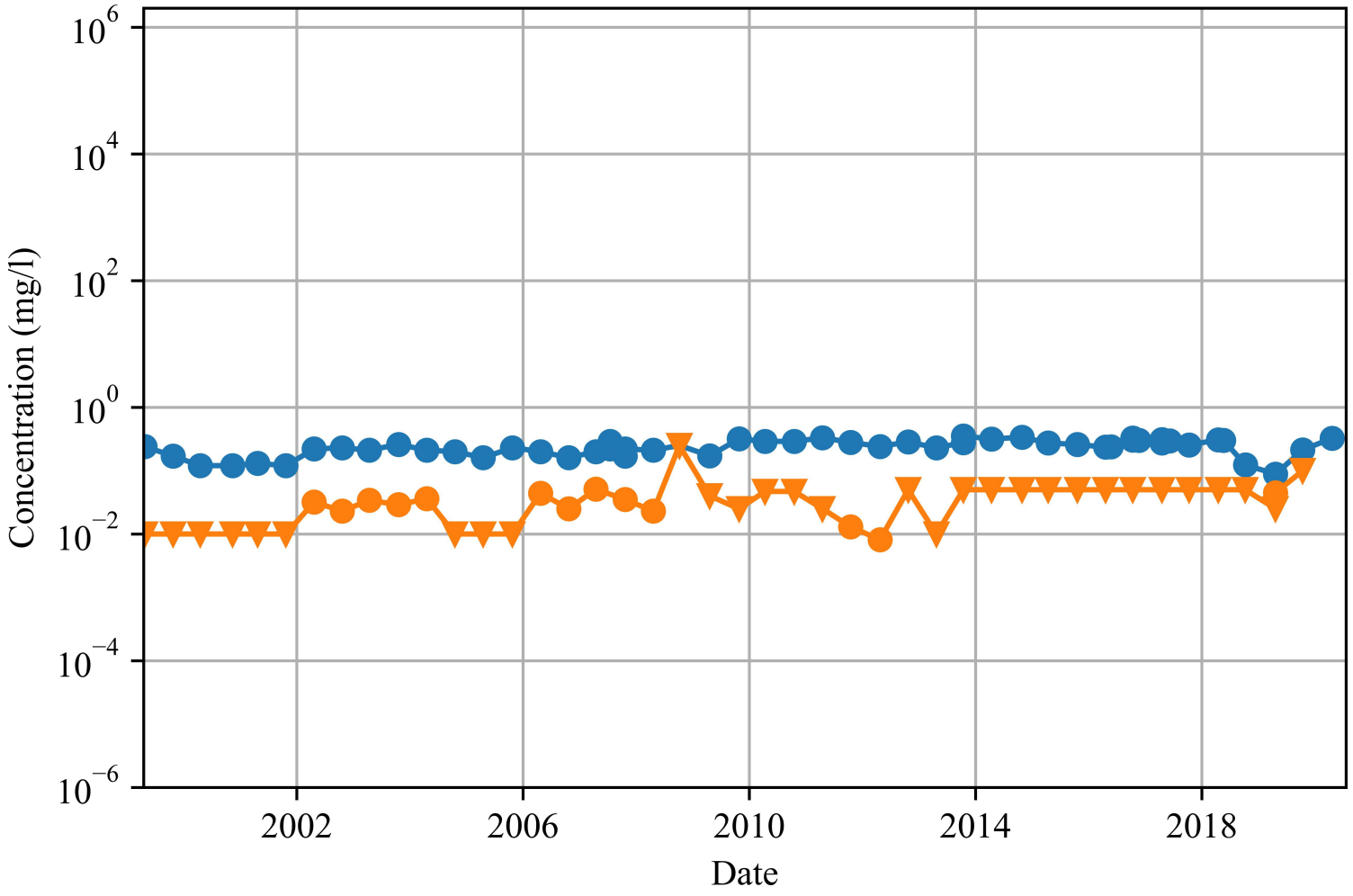
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-49:
Concentration vs. Time
Cell 13/WMA #6
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

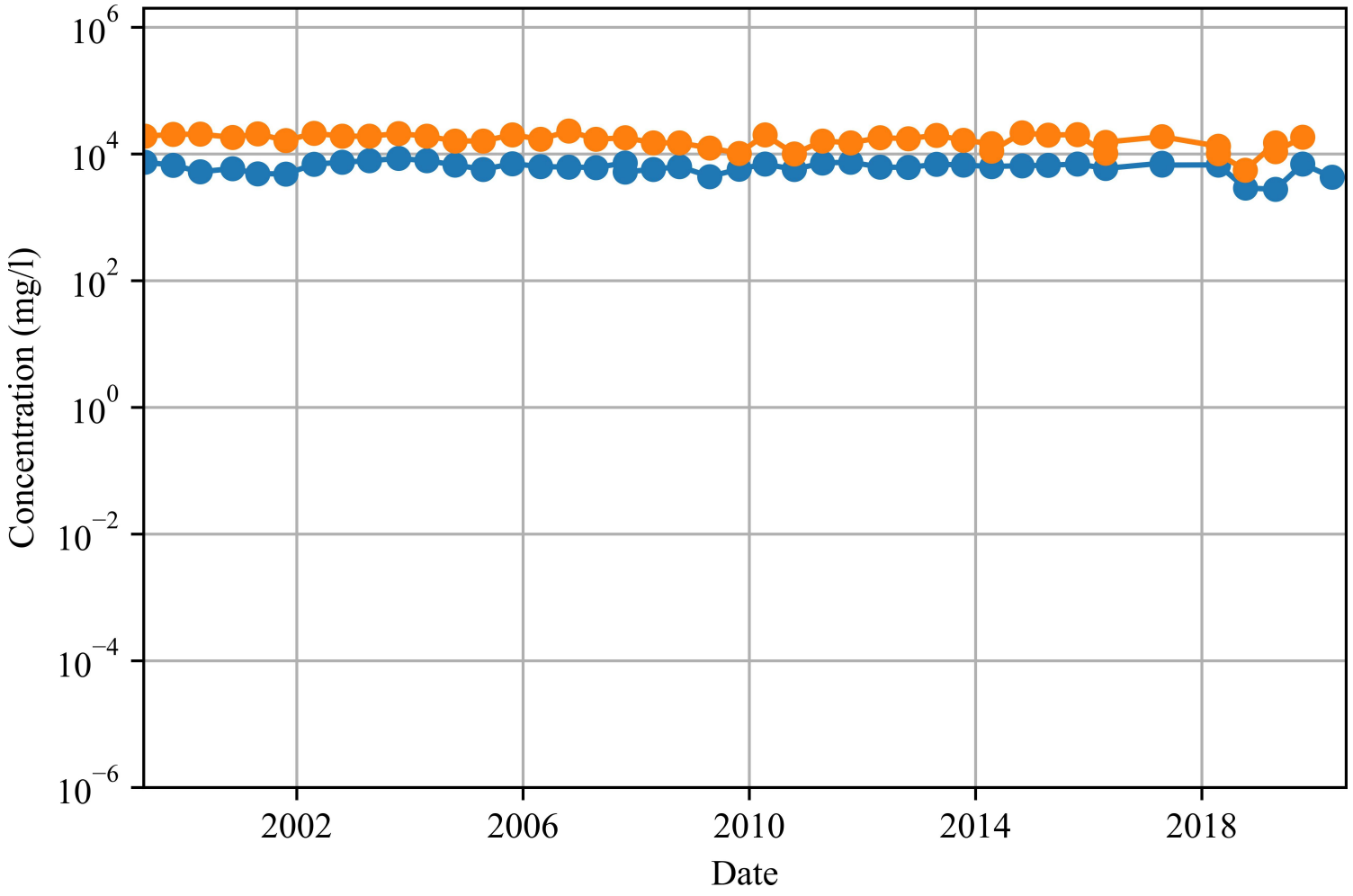
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-50:
Concentration vs. Time
Cell 13/WMA #6
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 13A1
- MW 13A2
- Detect
- Non-detect

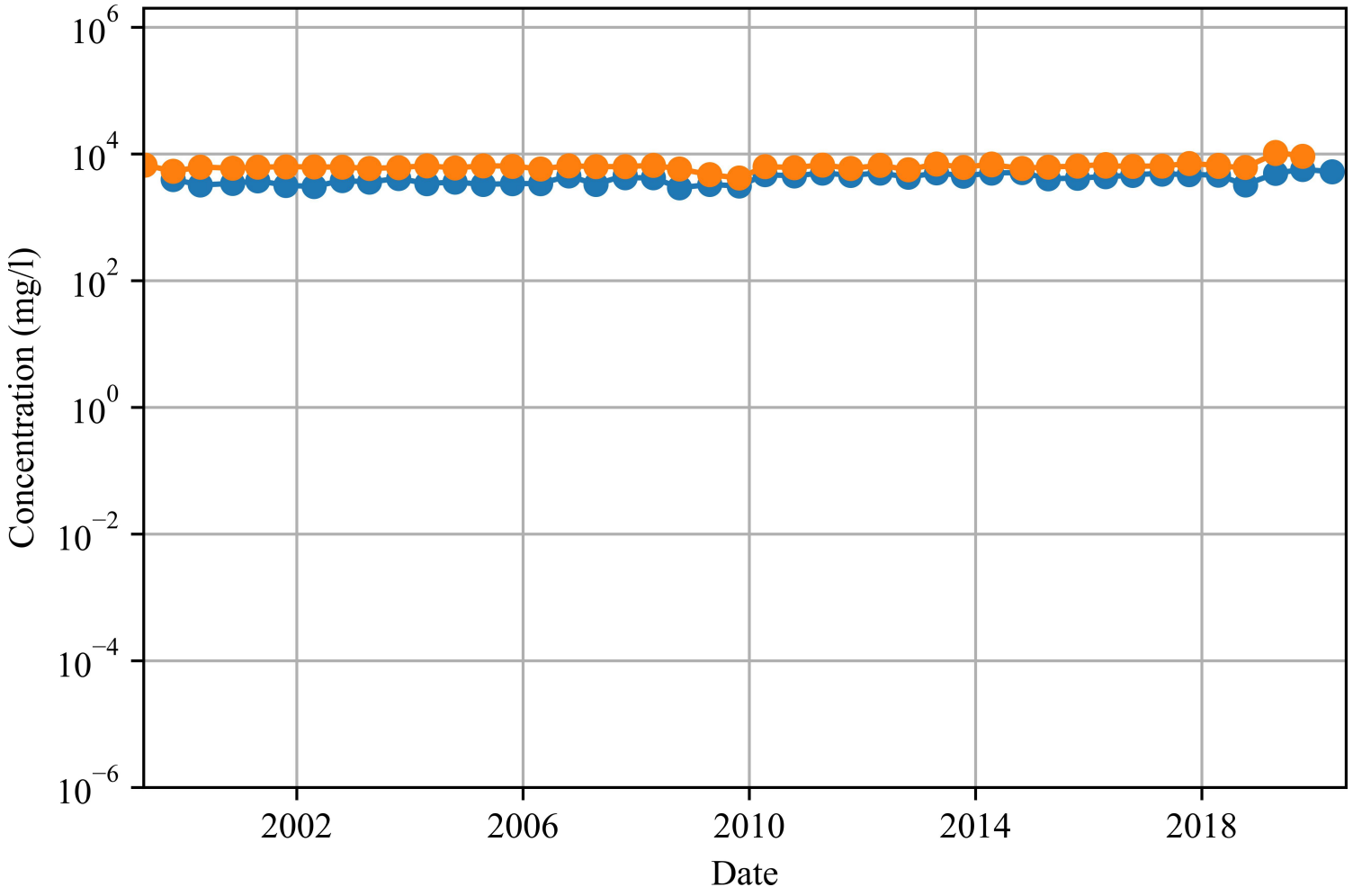
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-51:
Concentration vs. Time
Cell 13/WMA #6
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

MW 13A1

MW 13A2

Detect

Non-detect

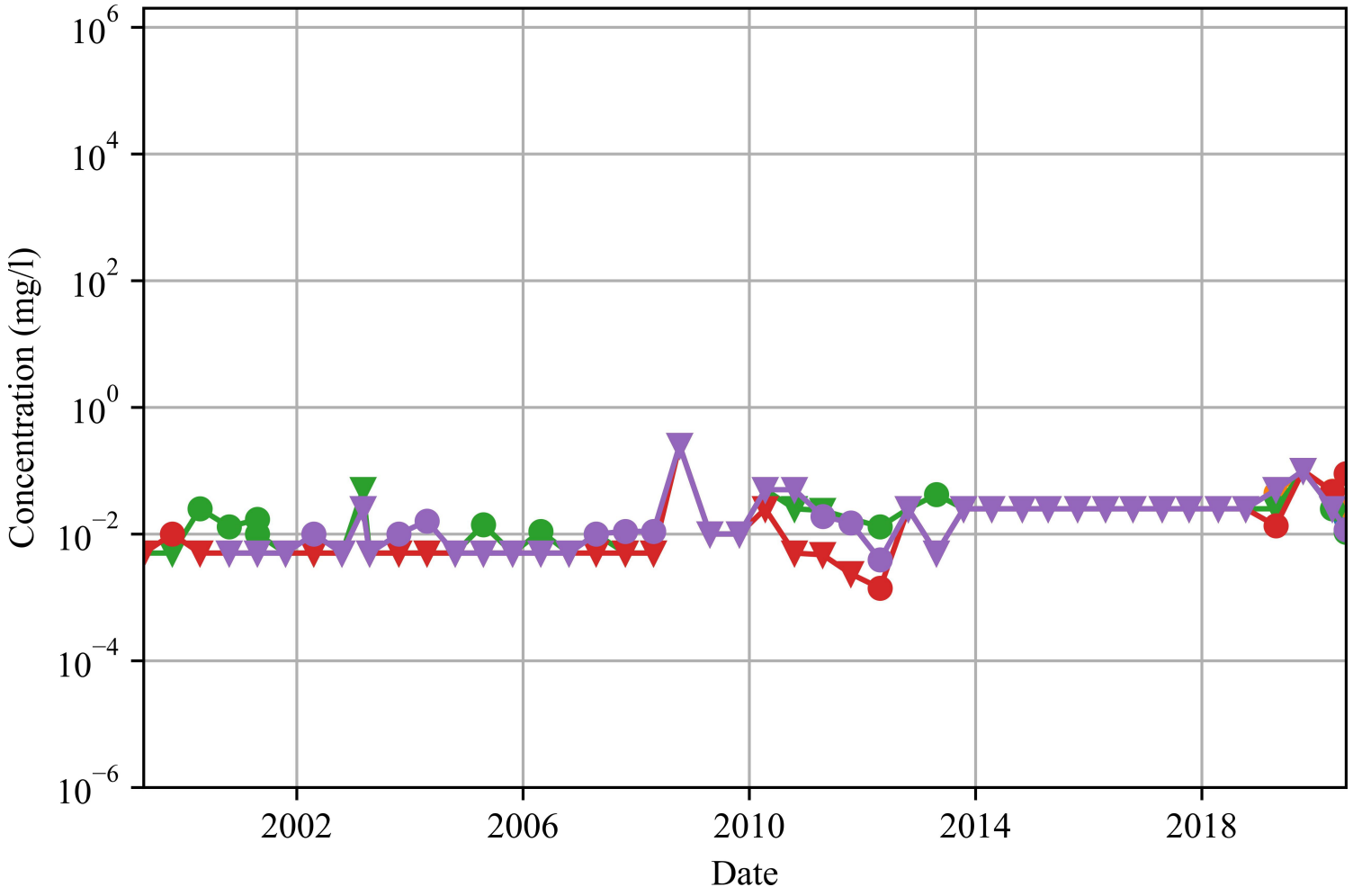
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-52:
Concentration vs. Time
Cell 13/WMA #6
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

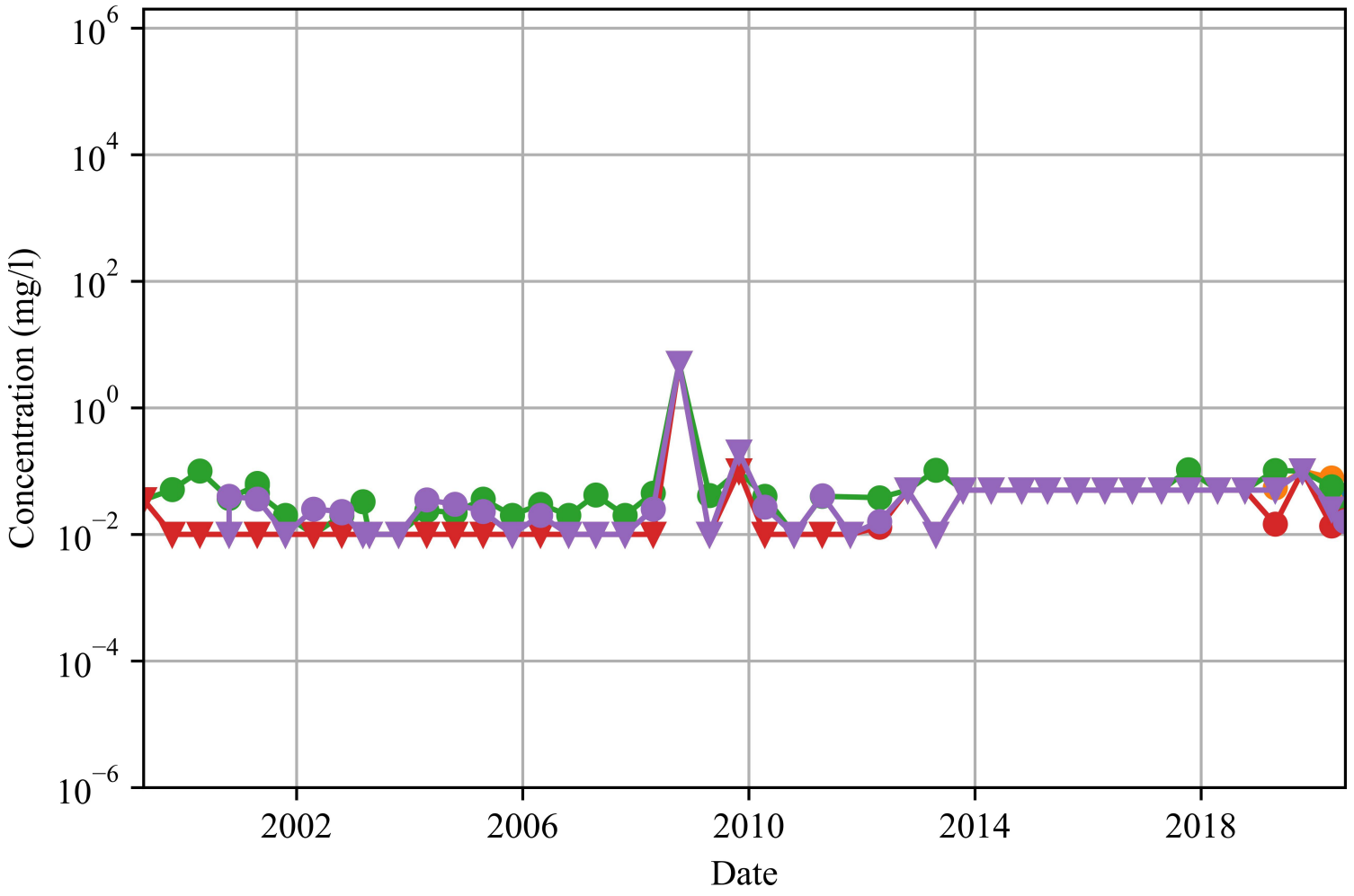
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-53:
Concentration vs. Time
Drum Cell/WMA #4
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

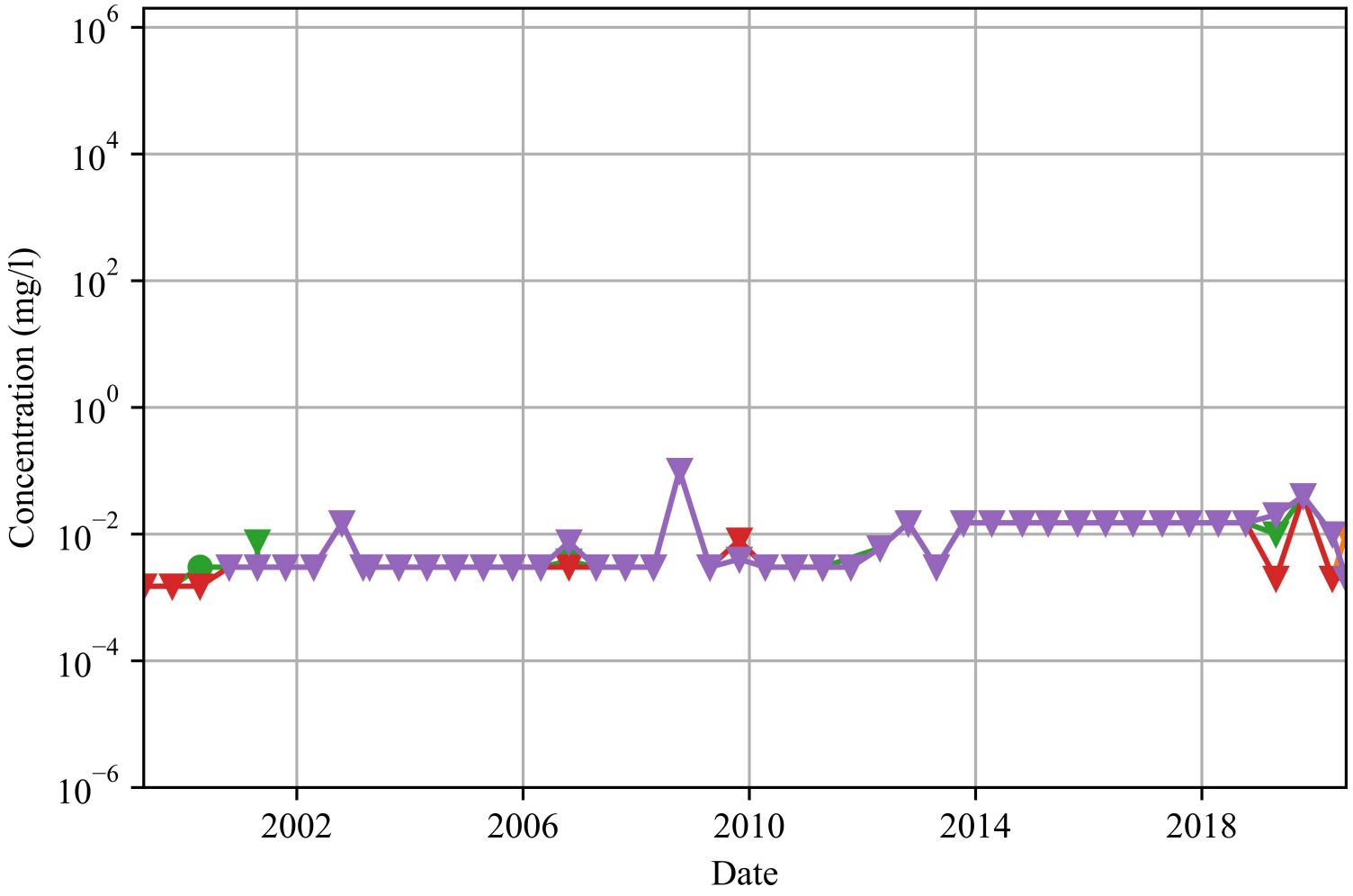
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-54:
Concentration vs. Time
Drum Cell/WMA #4
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

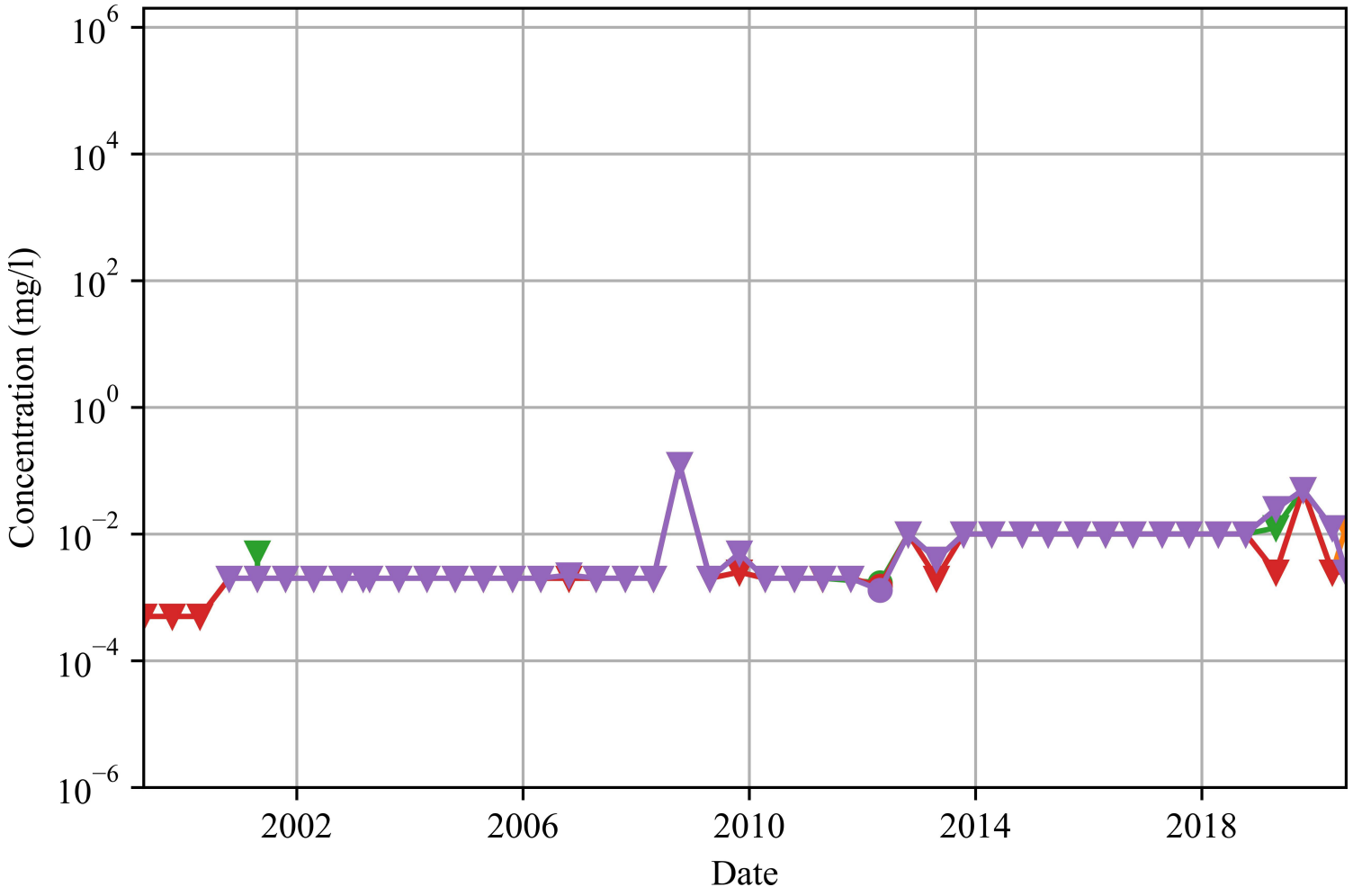
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-55:
Concentration vs. Time
Drum Cell/WMA #4
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

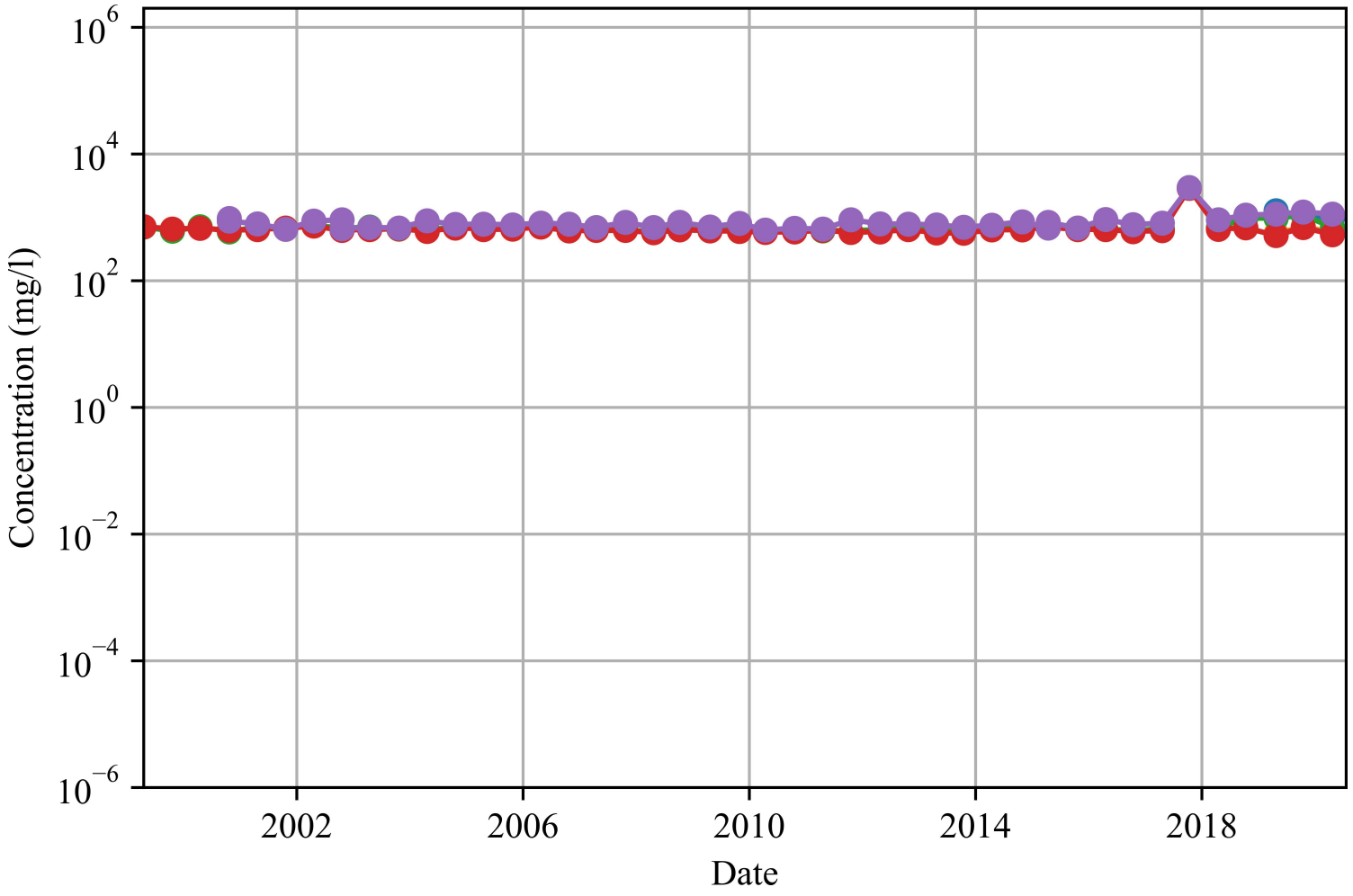
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-56:
Concentration vs. Time
Drum Cell/WMA #4
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

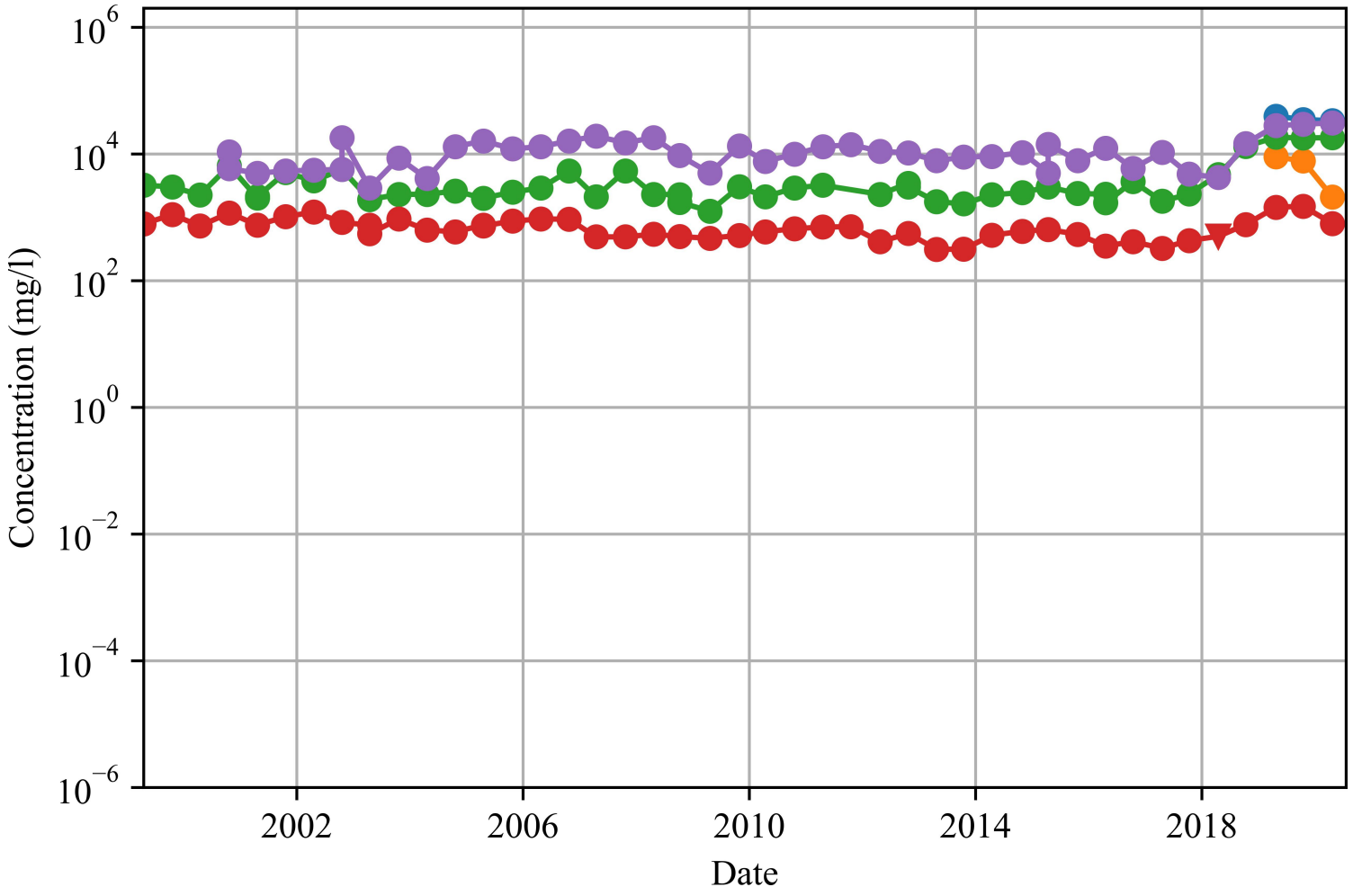
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-57:
Concentration vs. Time
Drum Cell/WMA #4
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

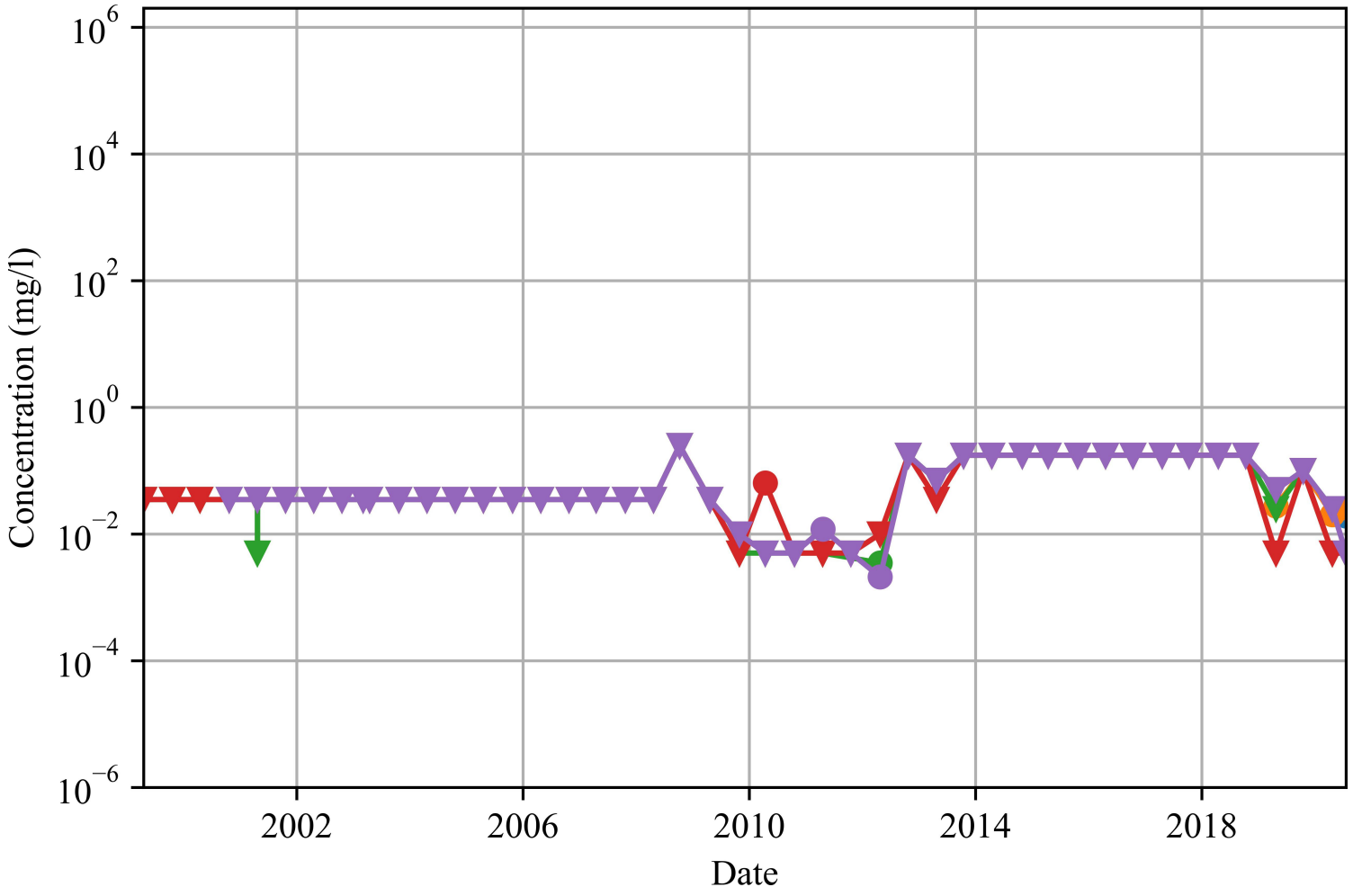
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-58:
Concentration vs. Time
Drum Cell/WMA #4
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

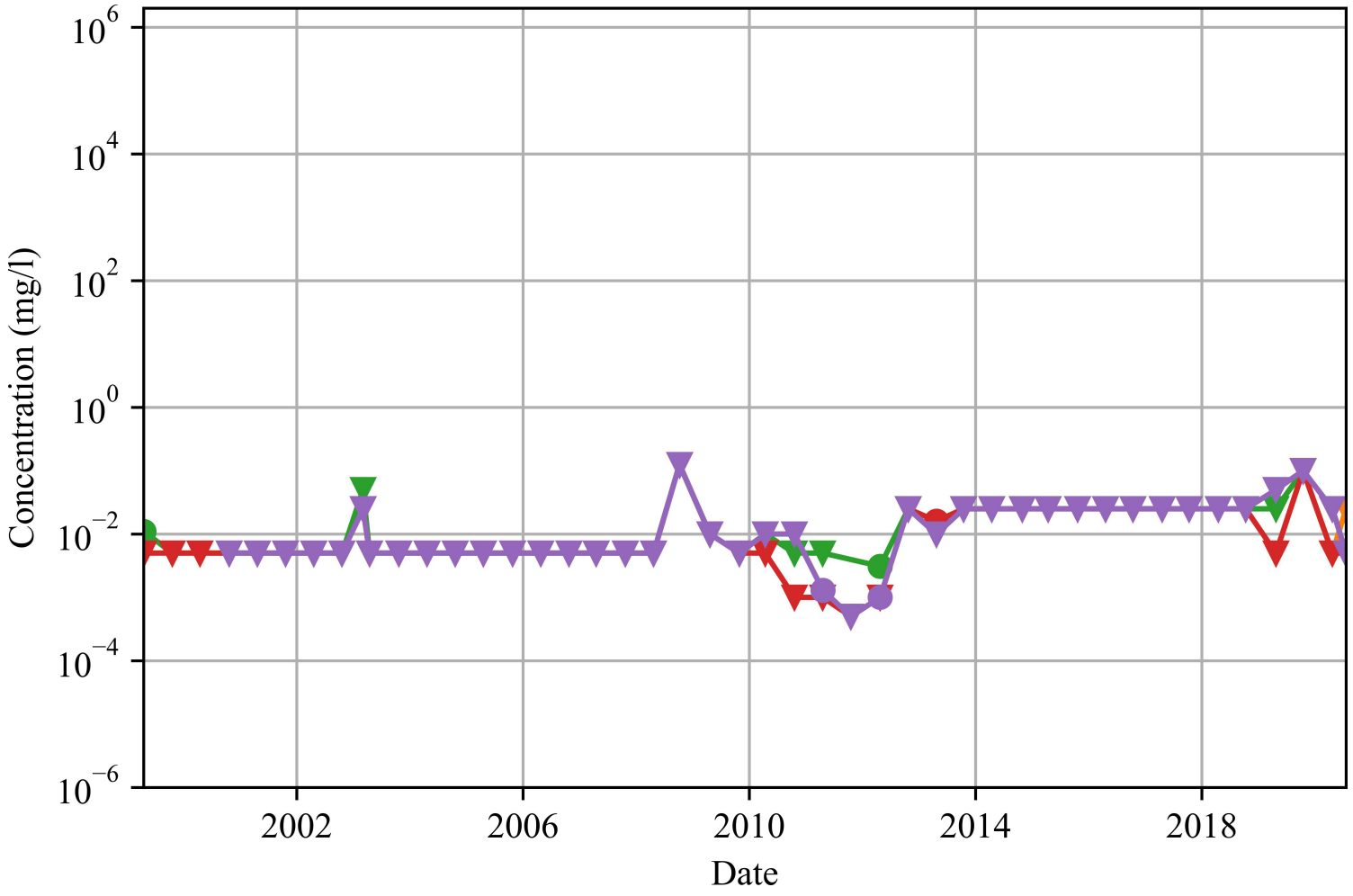
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-59:
Concentration vs. Time
Drum Cell/WMA #4
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

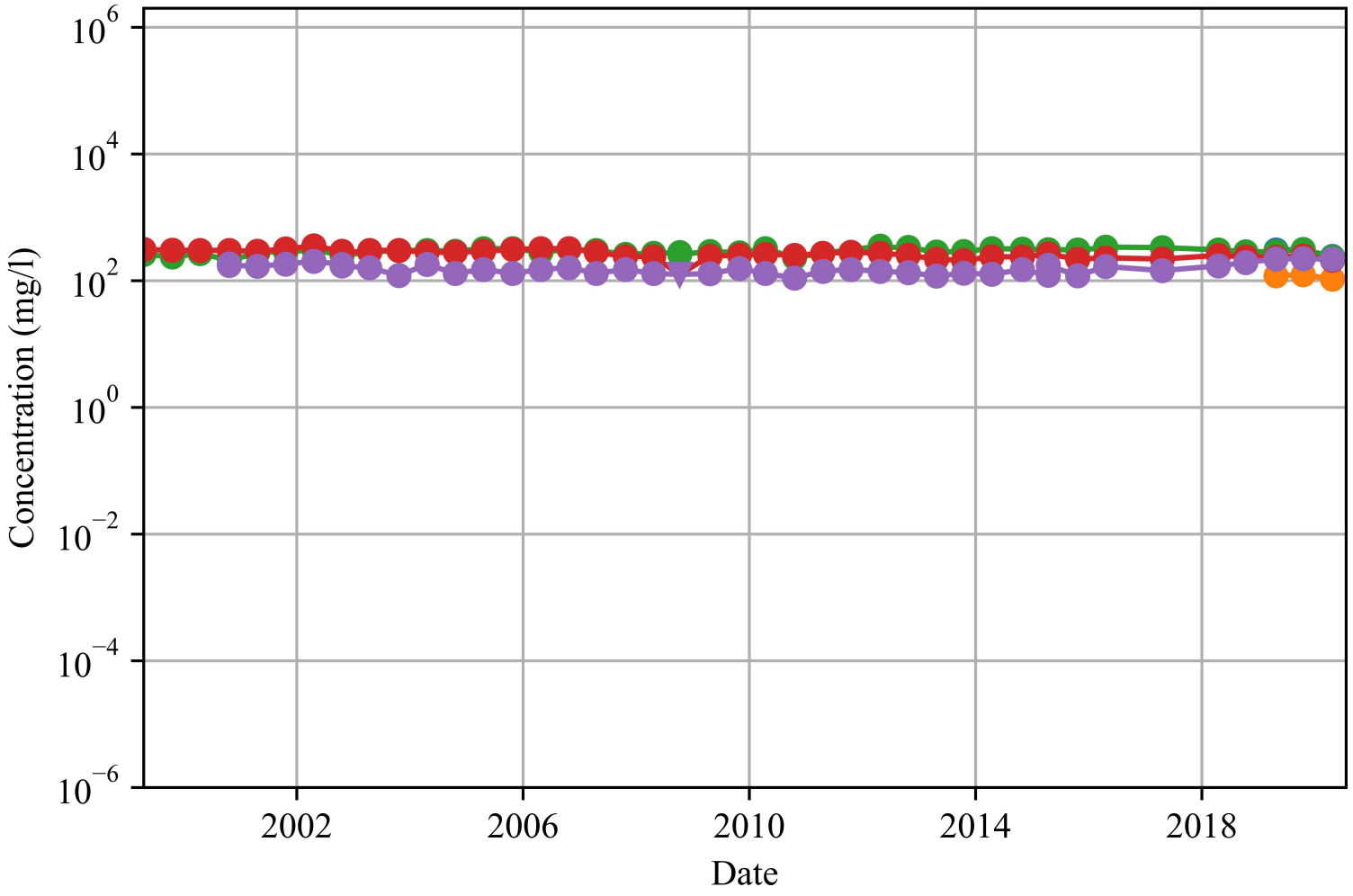
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-60:
Concentration vs. Time
Drum Cell/WMA #4
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

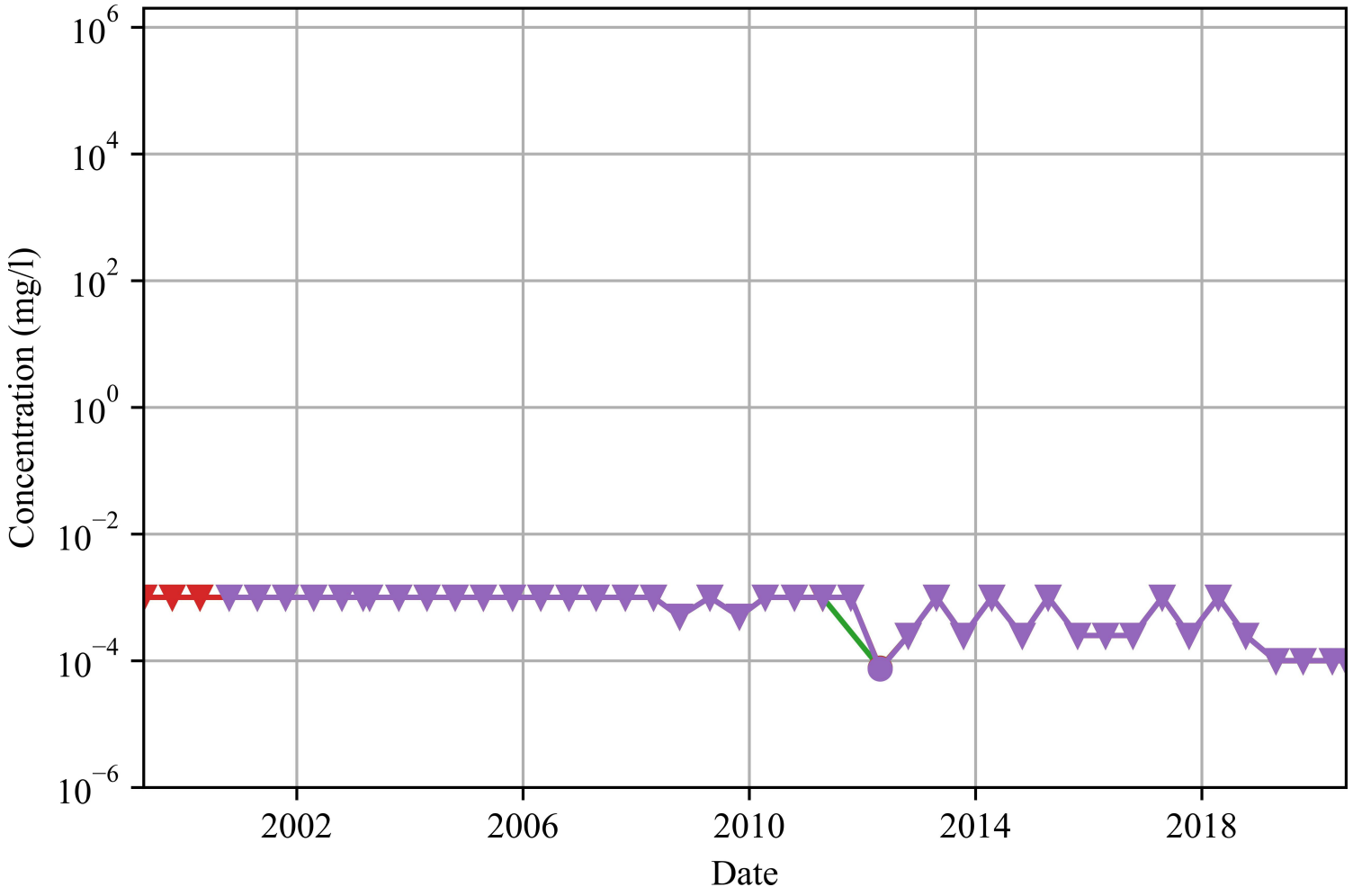
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-61:
Concentration vs. Time
Drum Cell/WMA #4
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

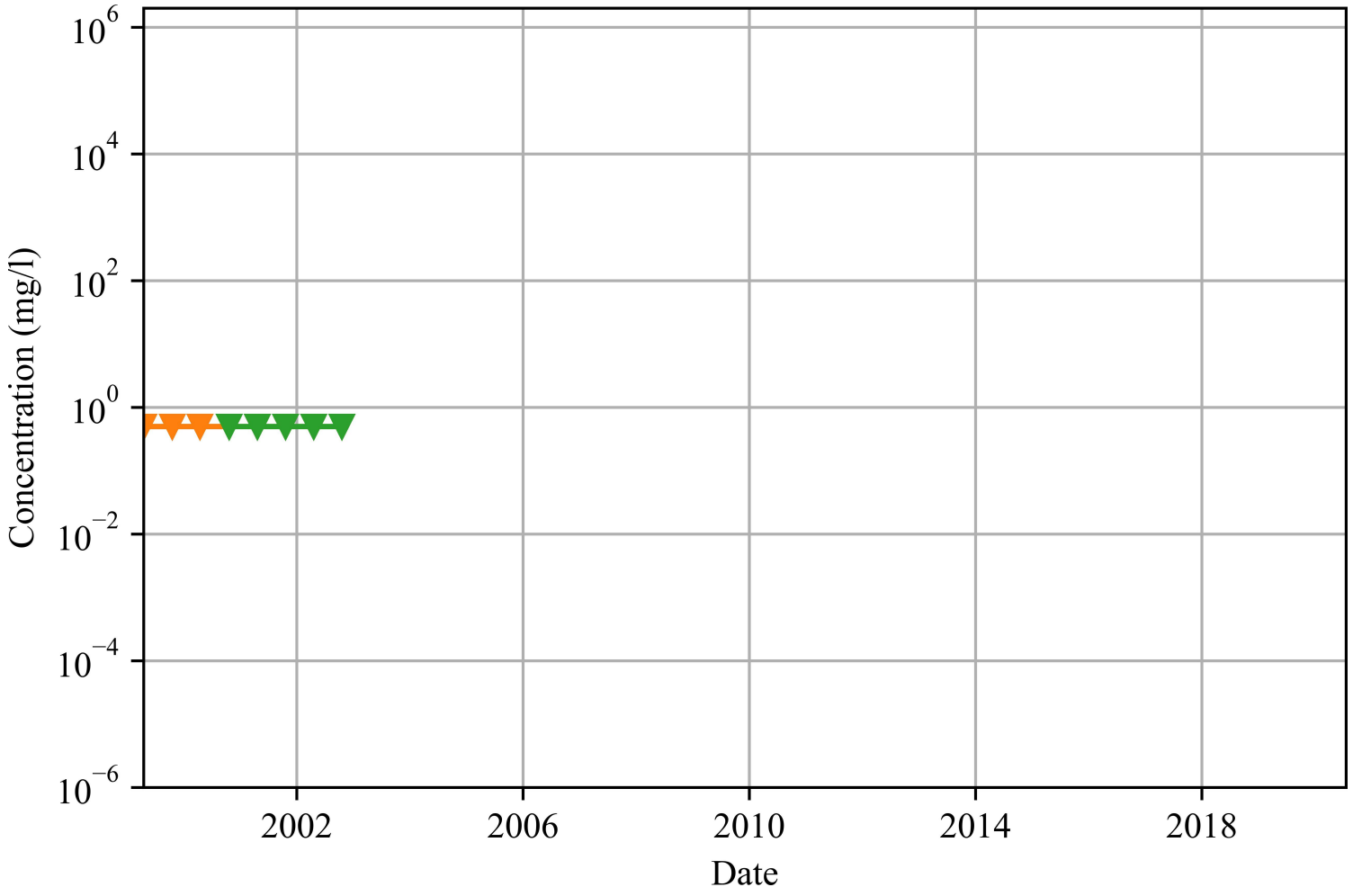
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-62:
Concentration vs. Time
Drum Cell/WMA #4
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

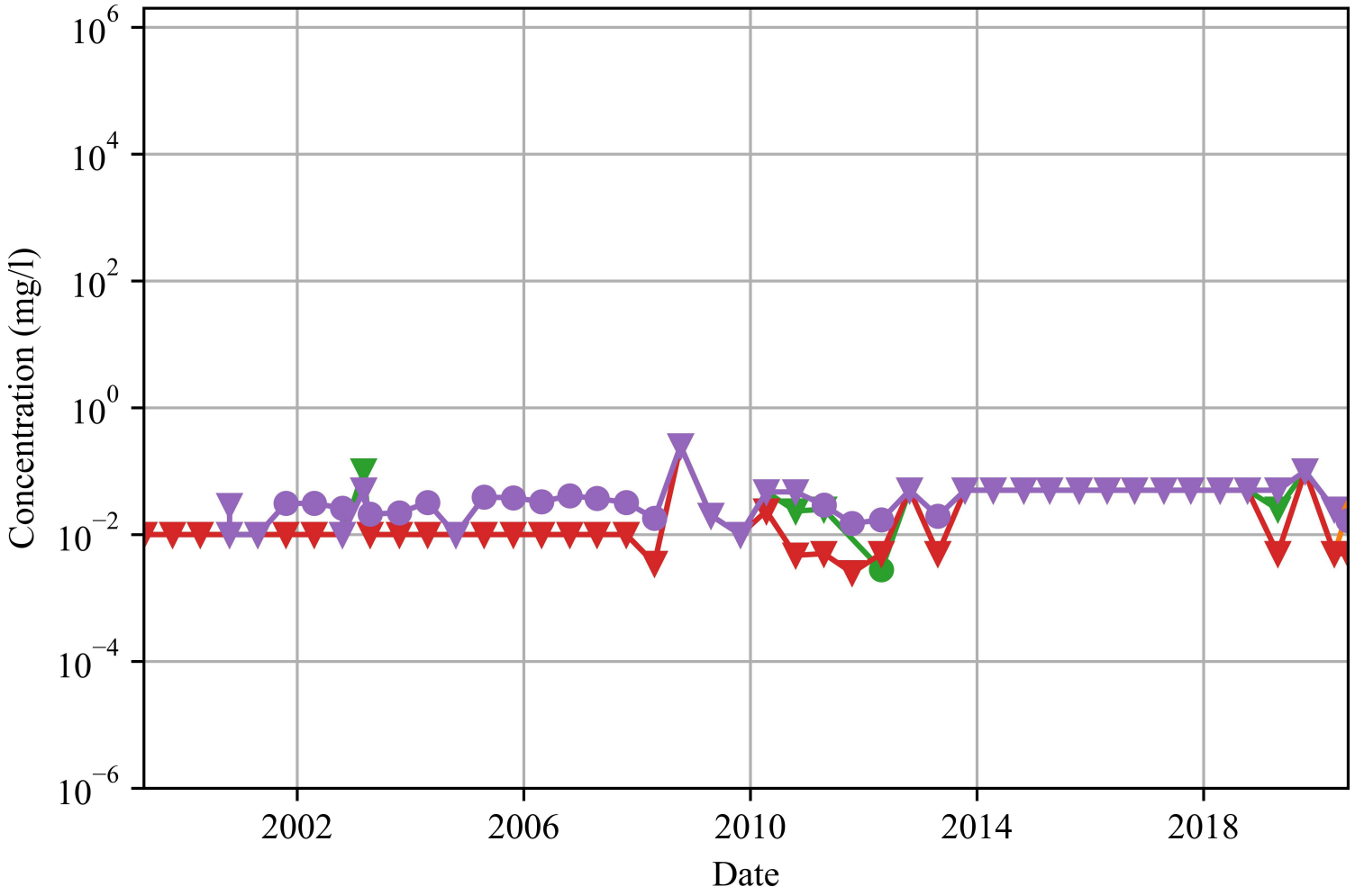
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-66:
Concentration vs. Time
Drum Cell/WMA #4
Potassium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

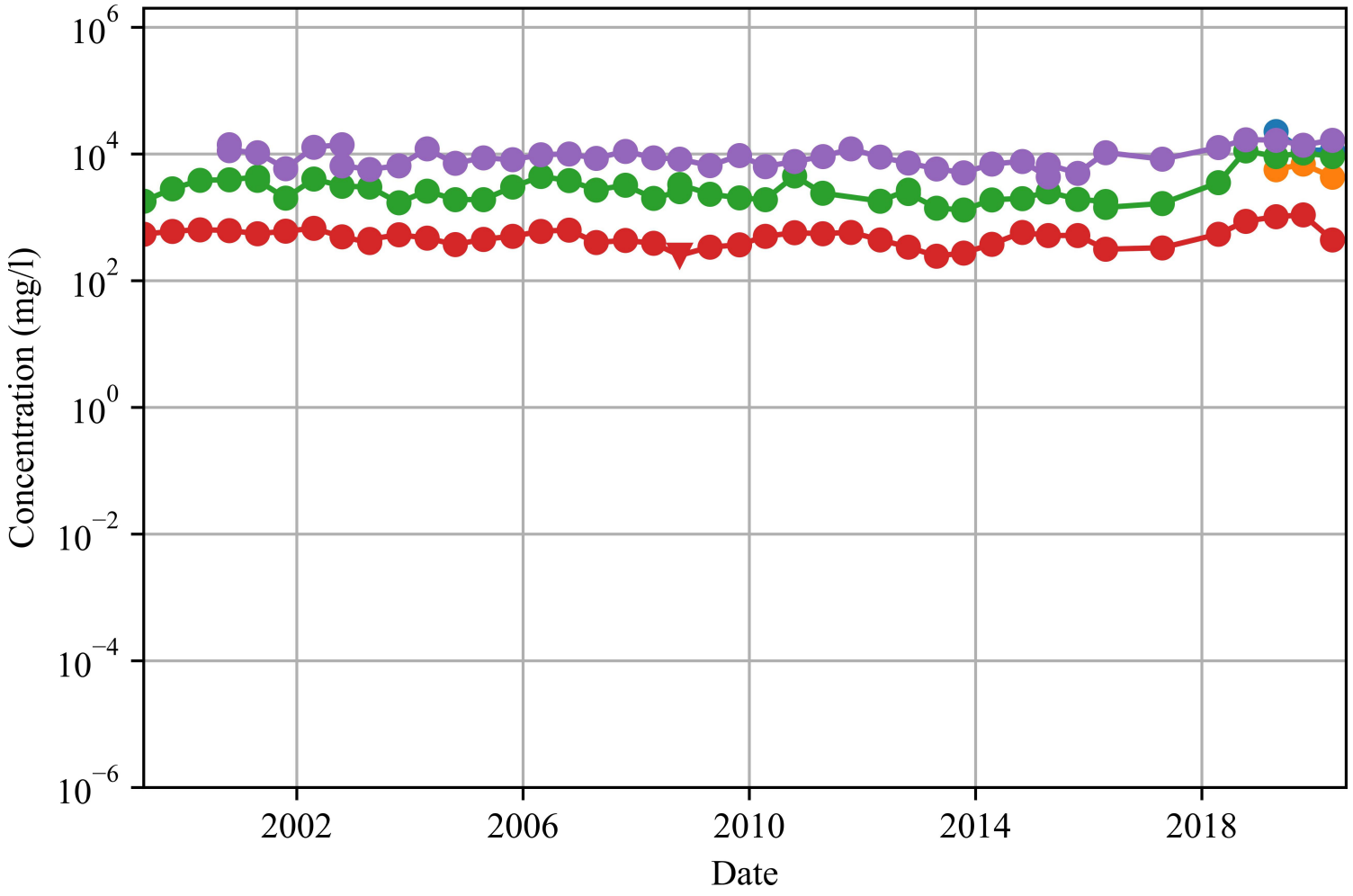
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-63:
Concentration vs. Time
Drum Cell/WMA #4
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

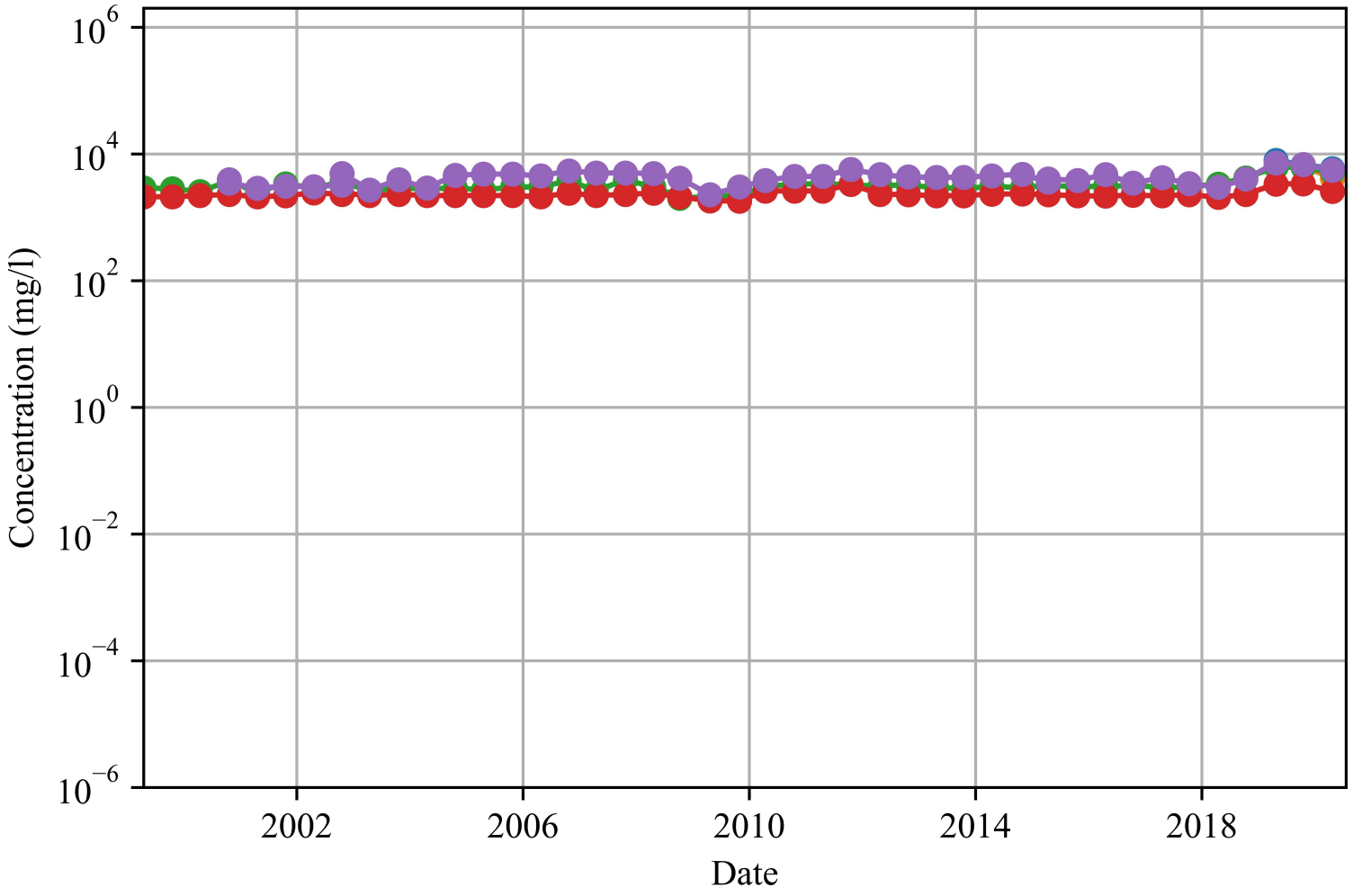
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-64:
Concentration vs. Time
Drum Cell/WMA #4
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- CM-10
- CM-9
- MW 4A1
- MW 4A2
- MW 4A3 (New)
- Detect
- Non-detect

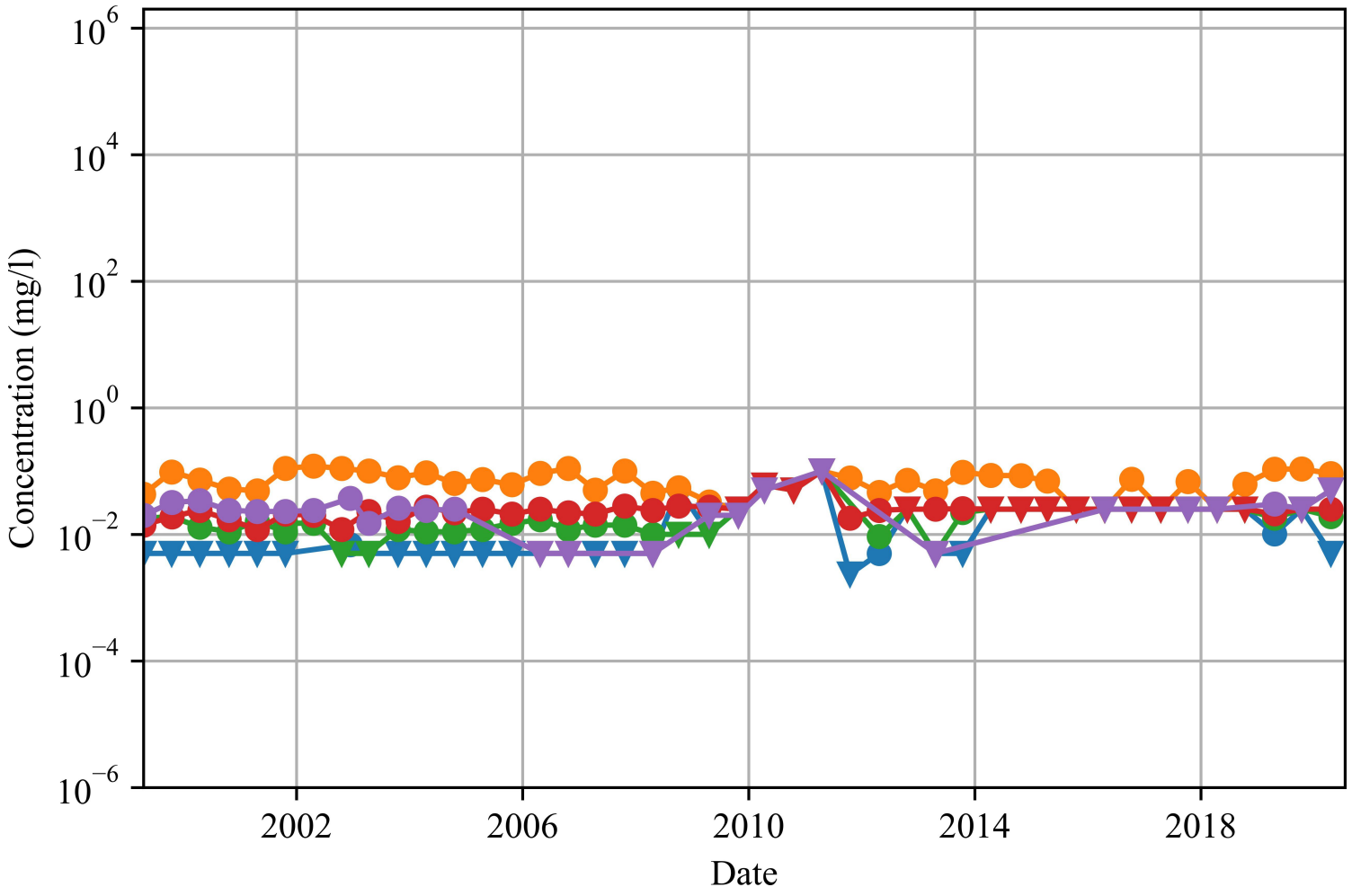
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-65:
Concentration vs. Time
Drum Cell/WMA #4
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

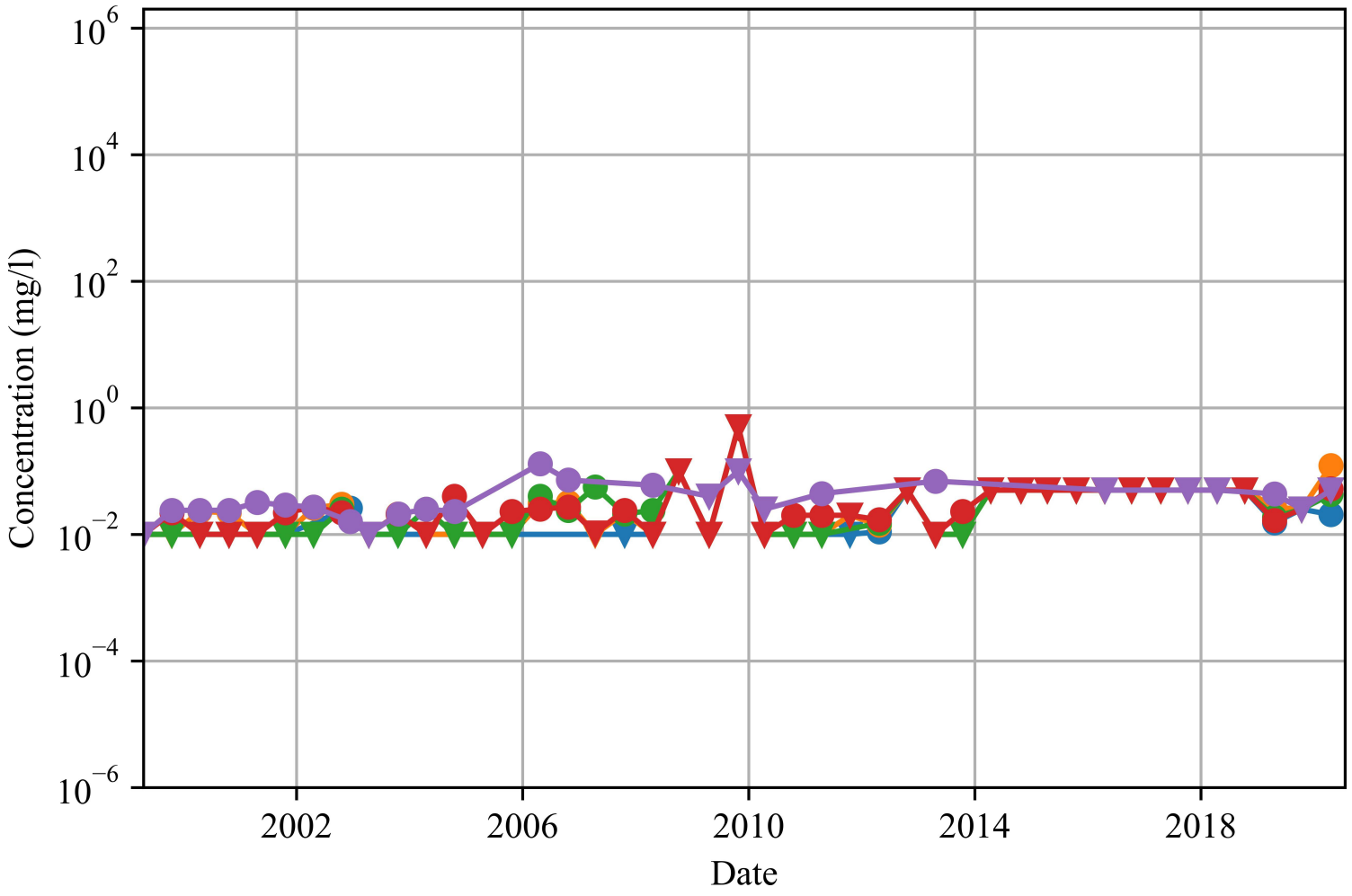
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-67:
Concentration vs. Time
Upgradient wells
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

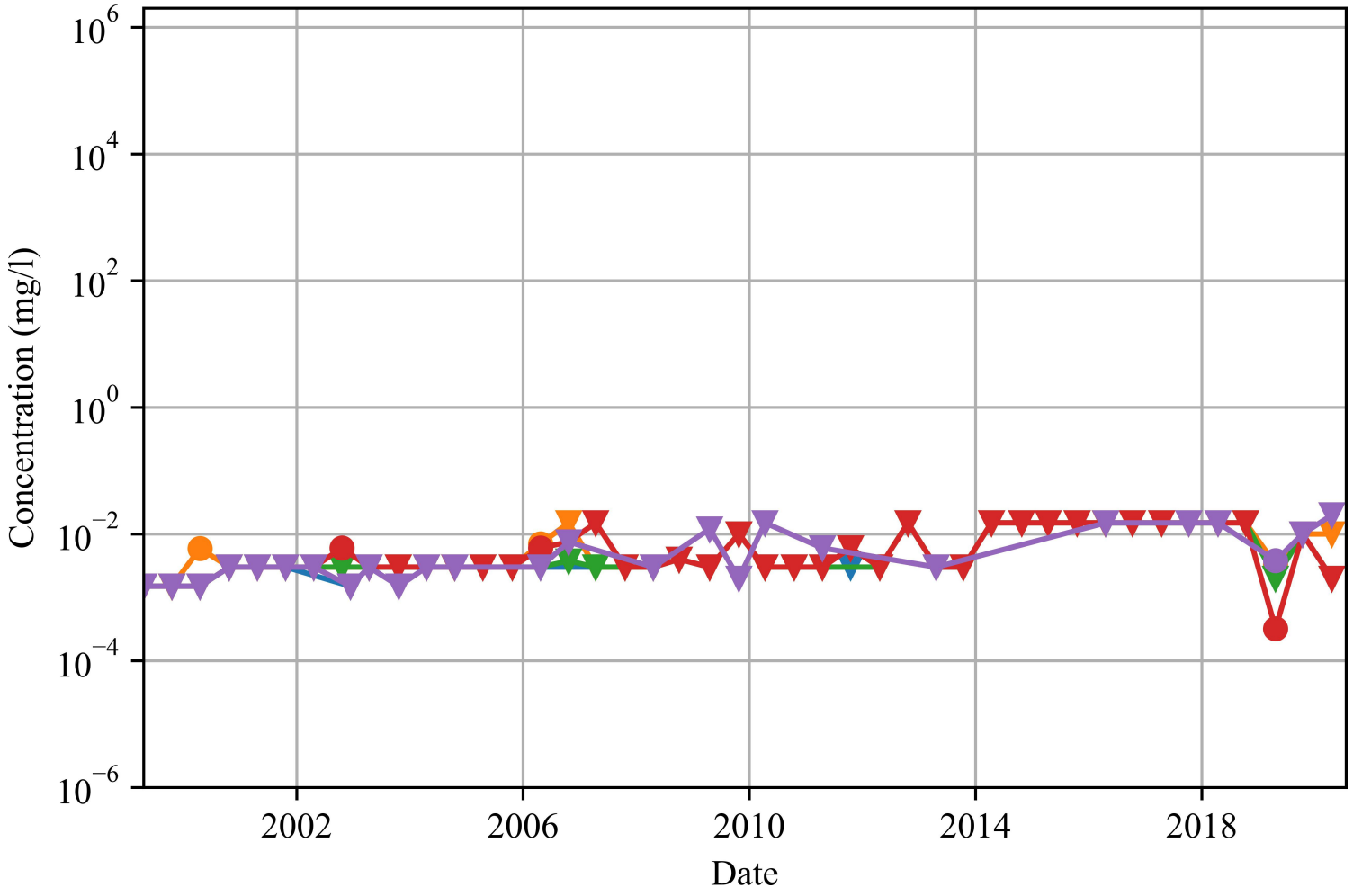
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-68:
Concentration vs. Time
Upgradient wells
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

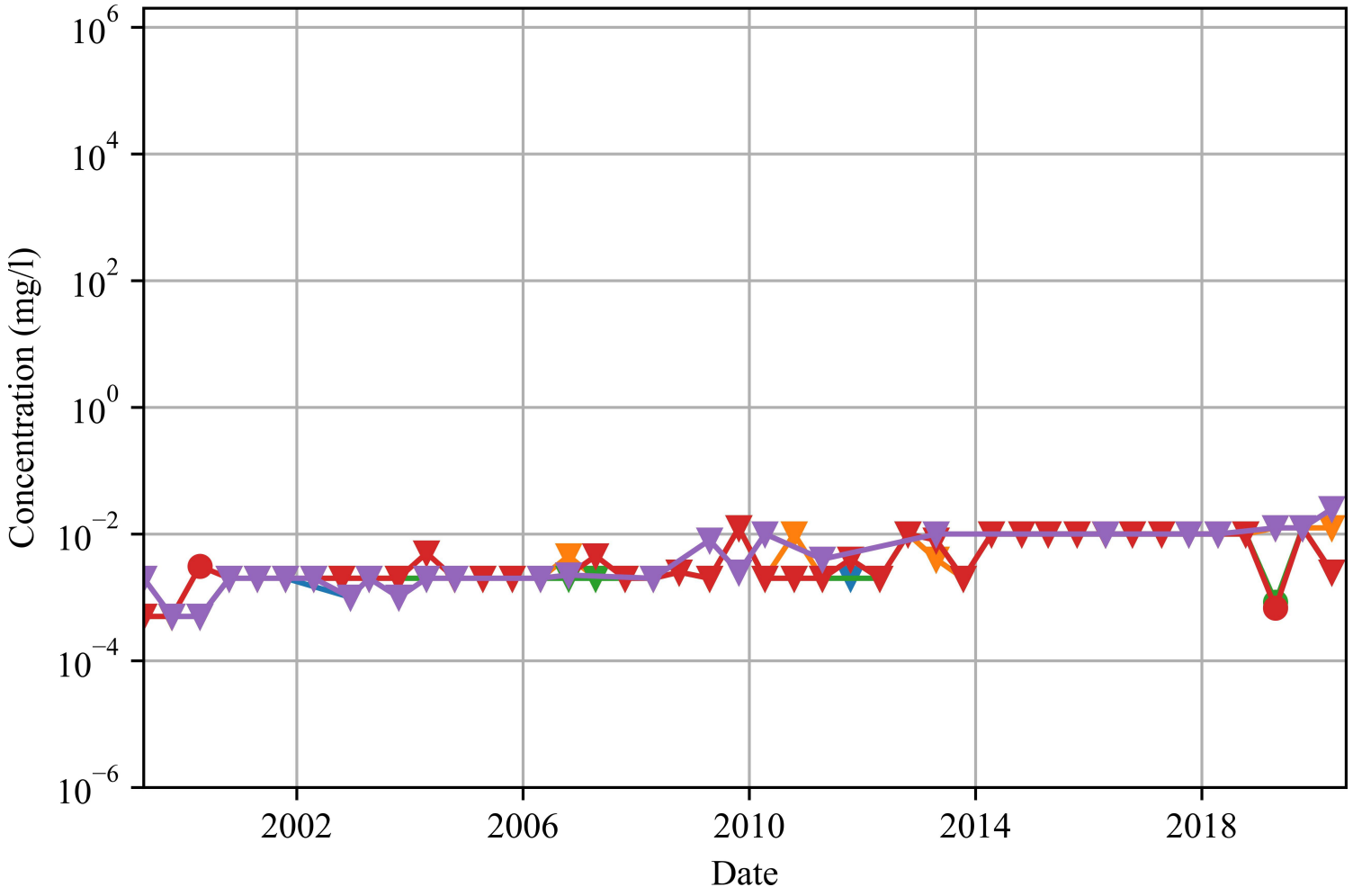
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-69:
Concentration vs. Time
Upgradient wells
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

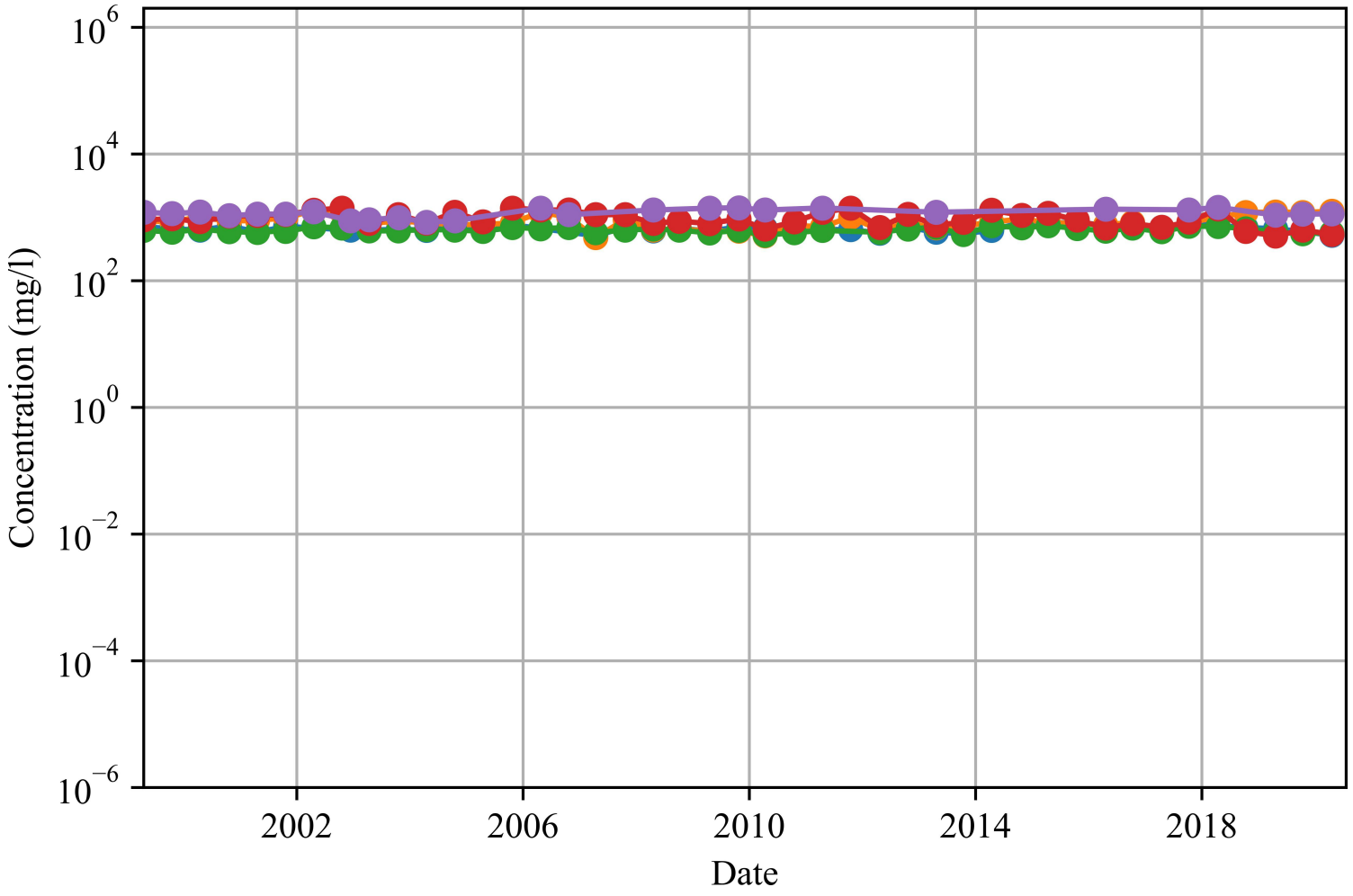
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-70:
Concentration vs. Time
Upgradient wells
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

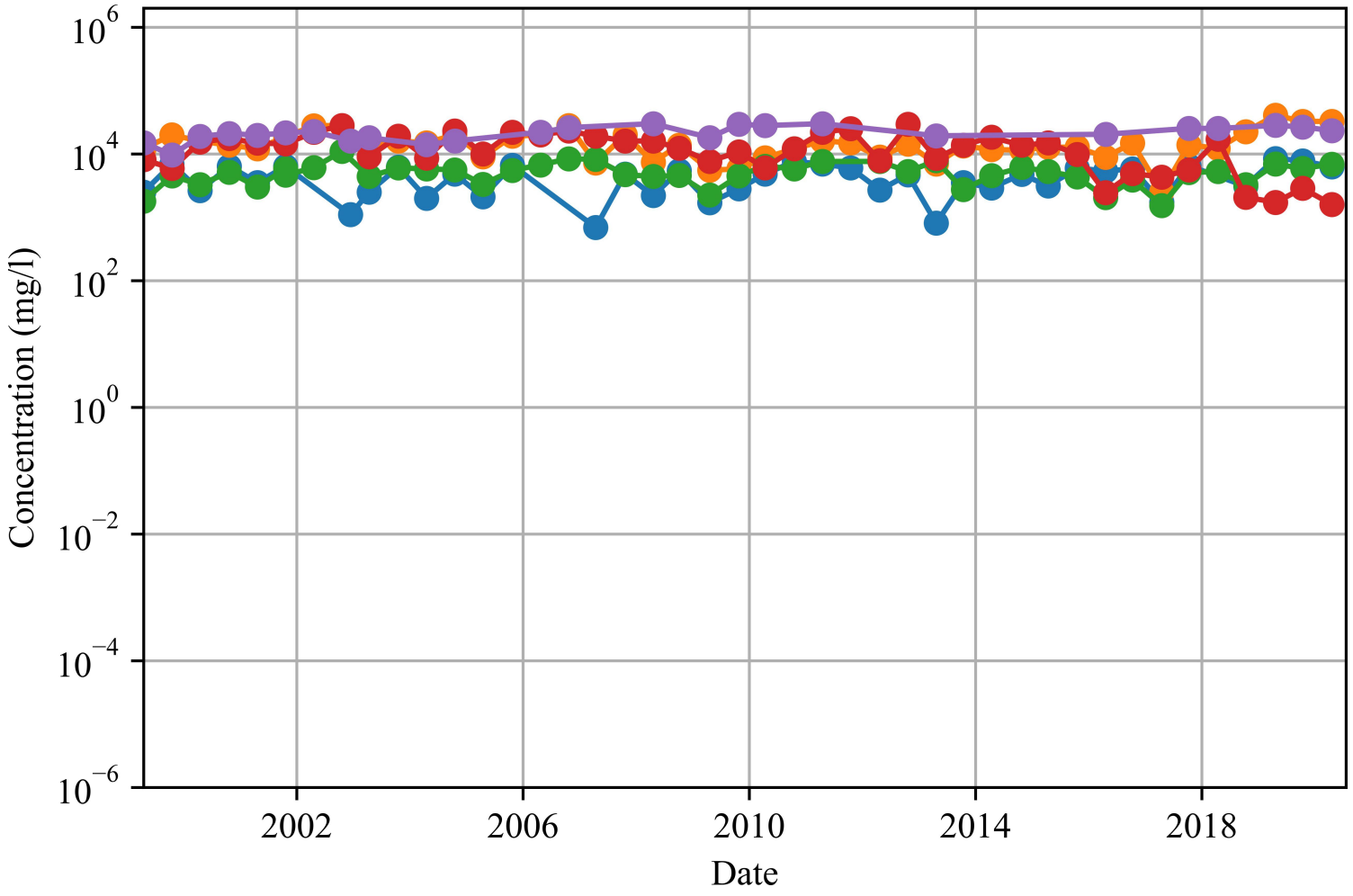
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-71:
Concentration vs. Time
Upgradient wells
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

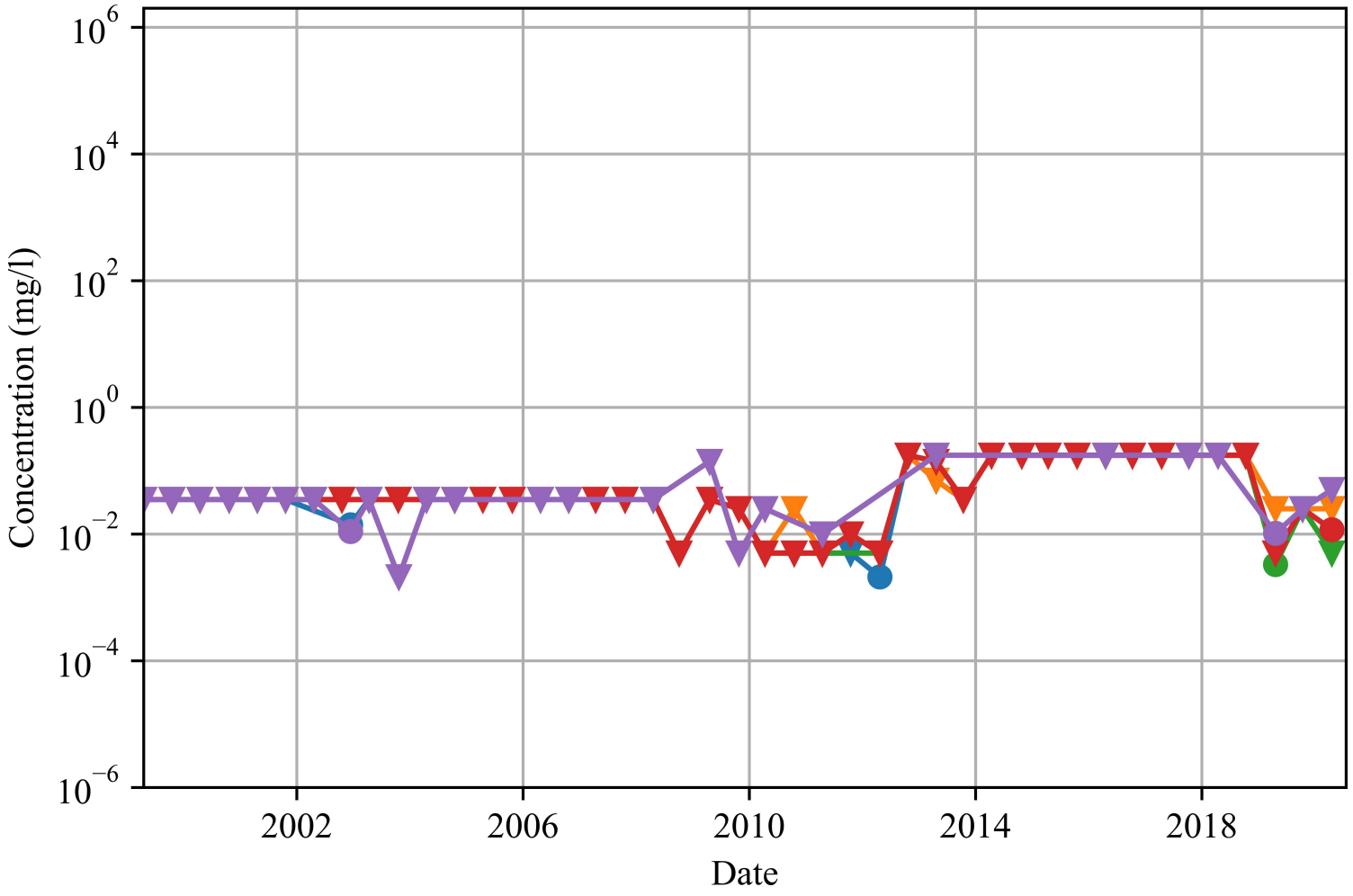
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-72:
Concentration vs. Time
Upgradient wells
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

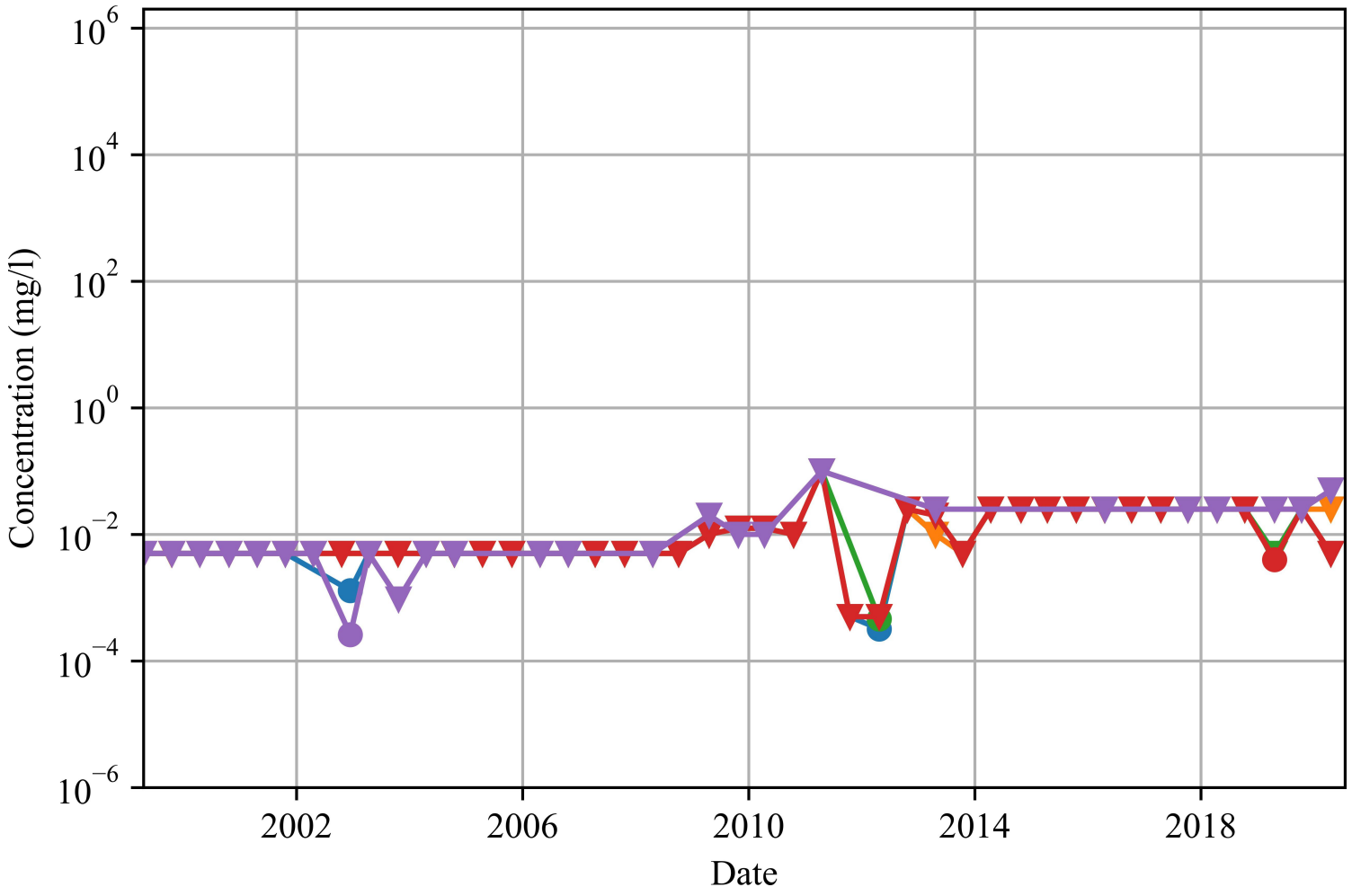
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-73:
Concentration vs. Time
Upgradient wells
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

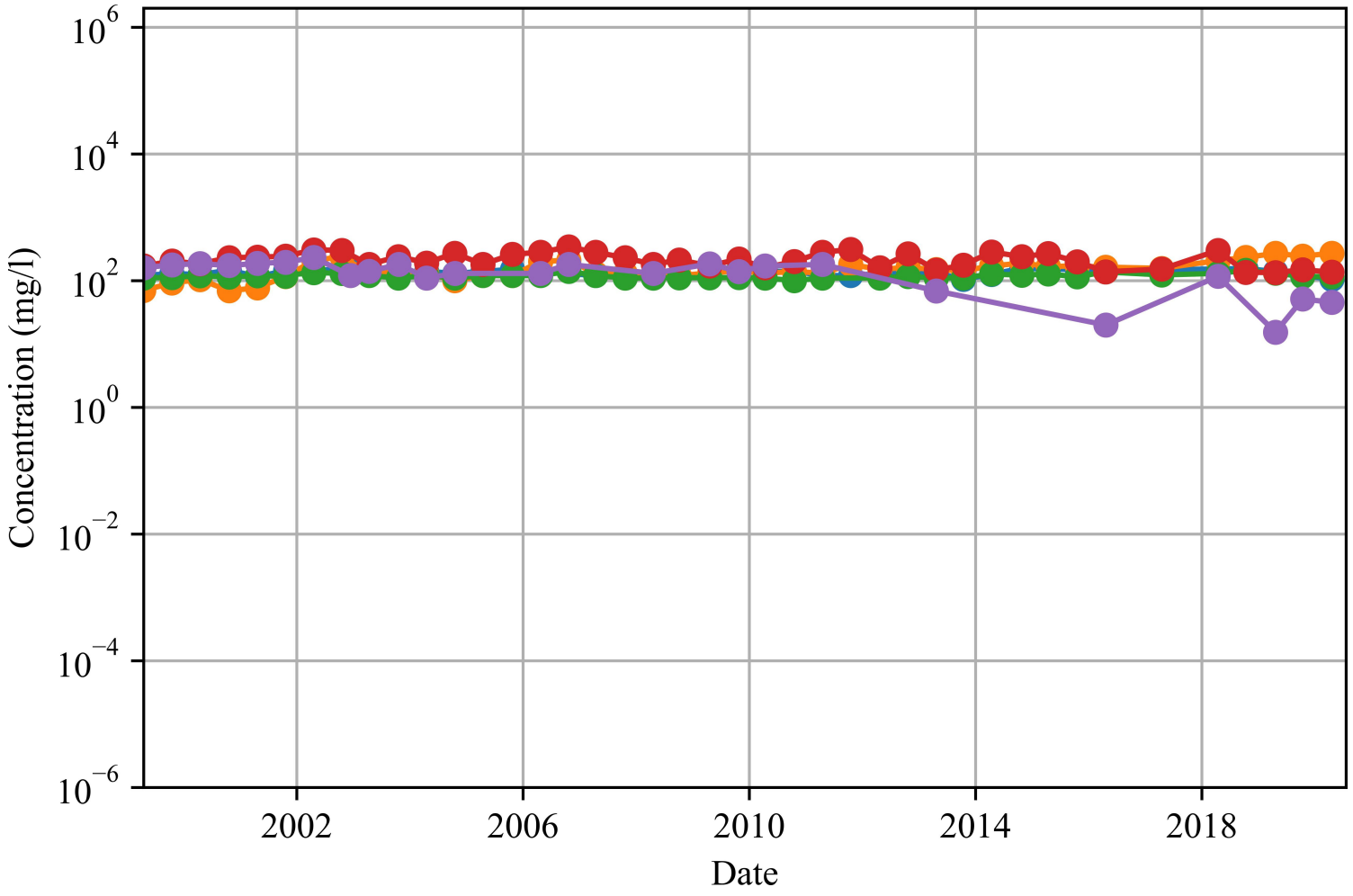
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-74:
Concentration vs. Time
Upgradient wells
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

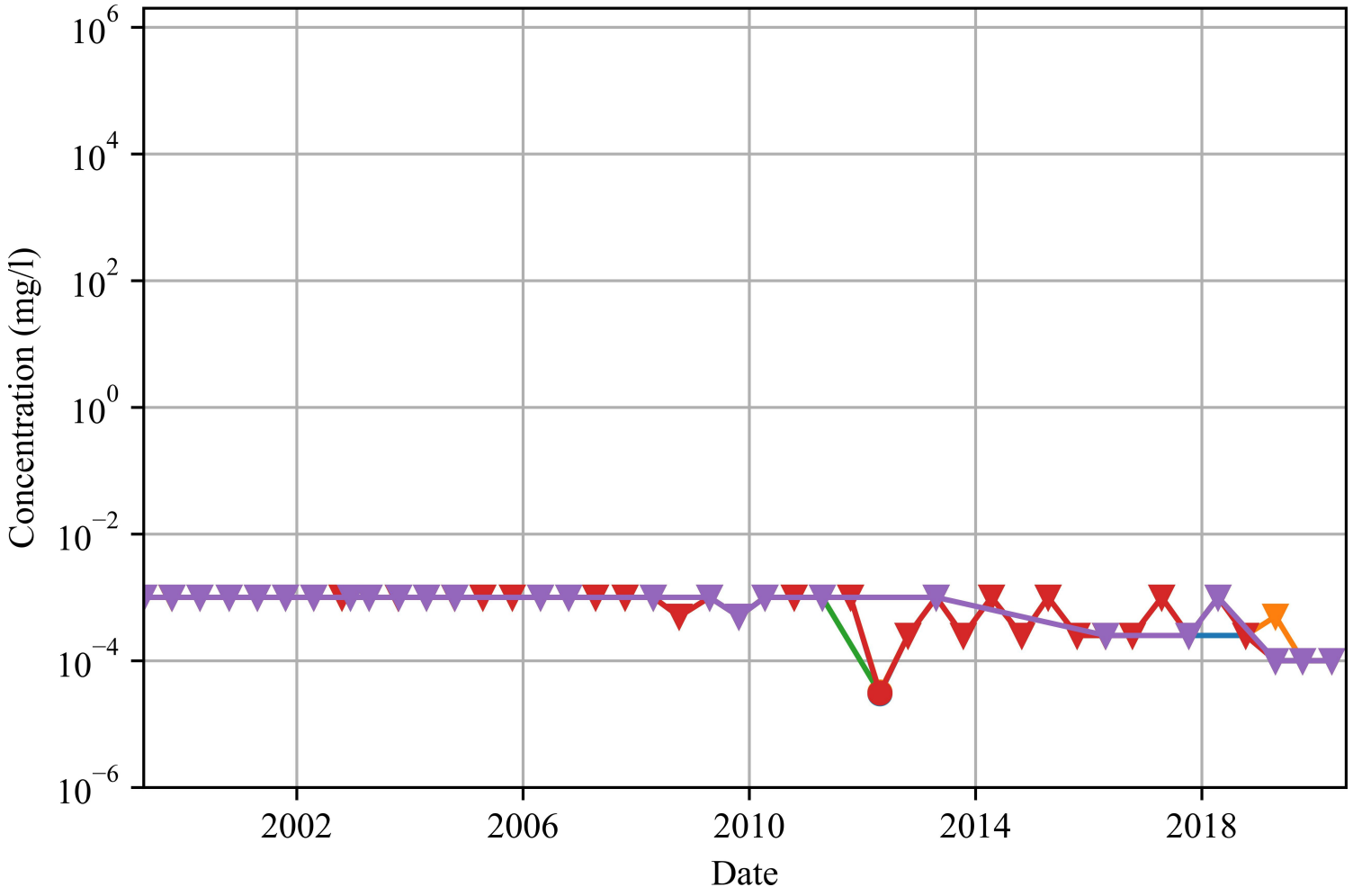
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-75:
Concentration vs. Time
Upgradient wells
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

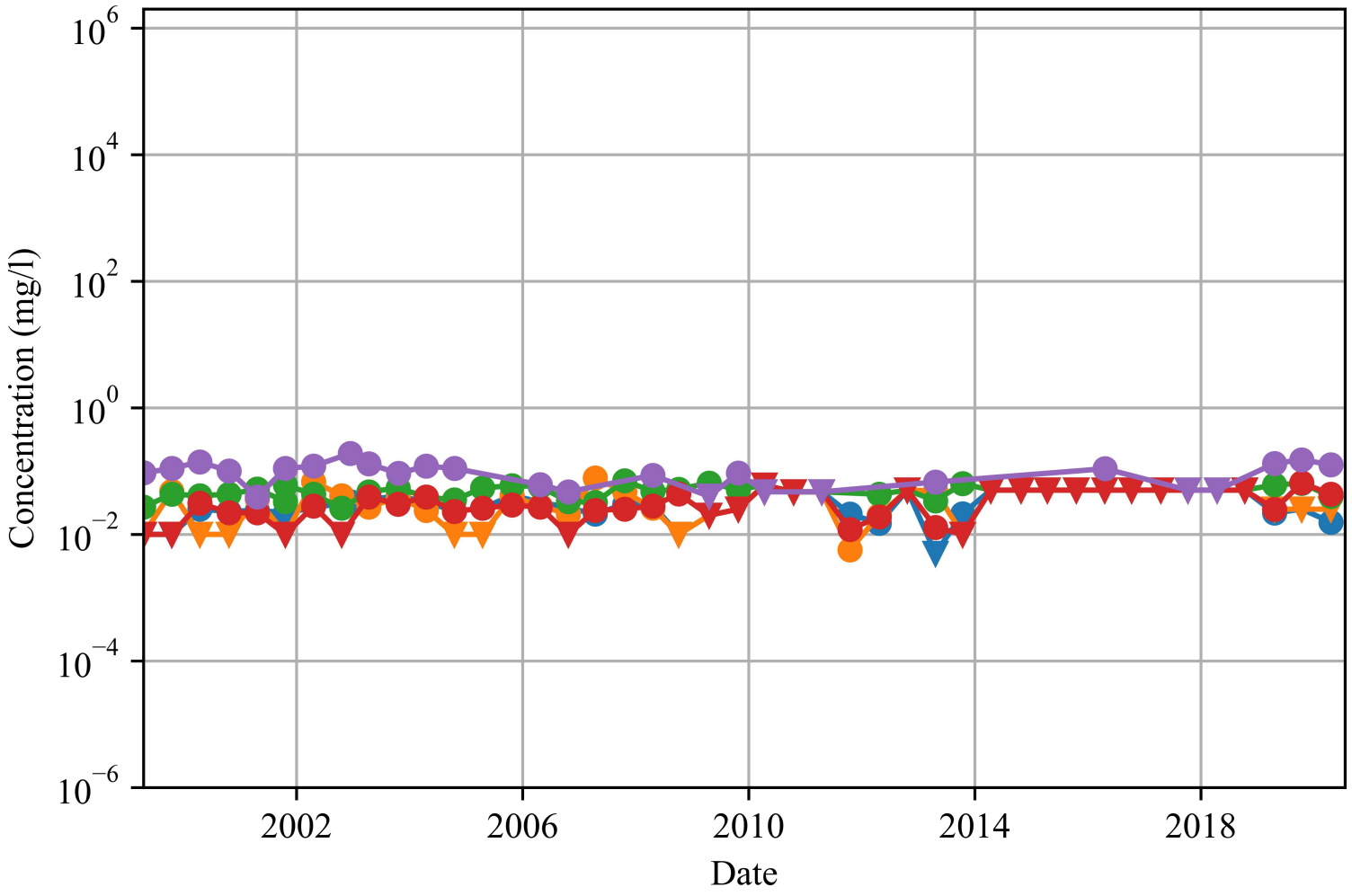
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-76:
Concentration vs. Time
Upgradient wells
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

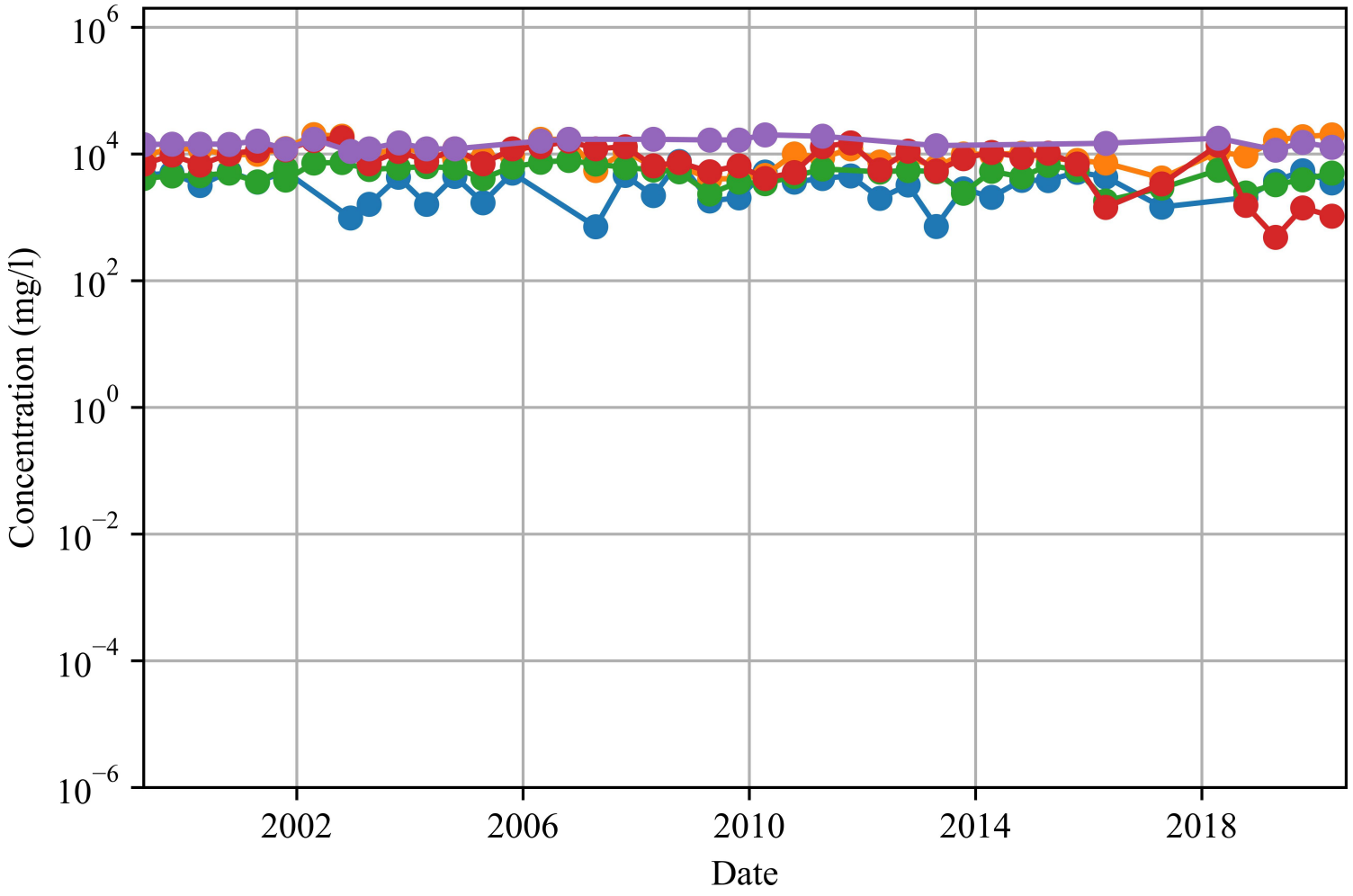
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-77:
Concentration vs. Time
Upgradient wells
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

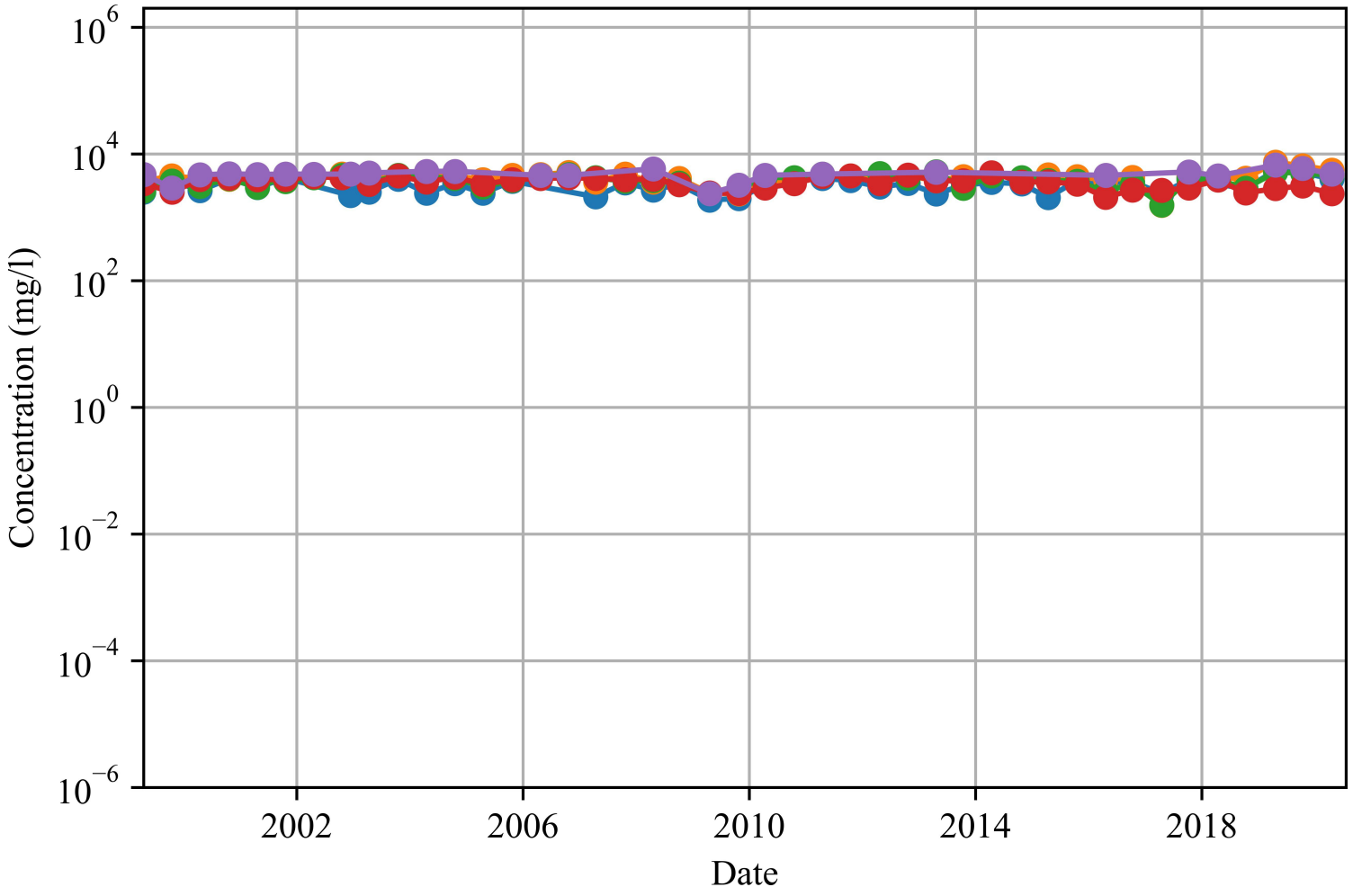
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-78:
Concentration vs. Time
Upgradient wells
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 1A
- MW 1B
- MW 2A1
- MW 2B
- MW 3A
- Detect
- Non-detect

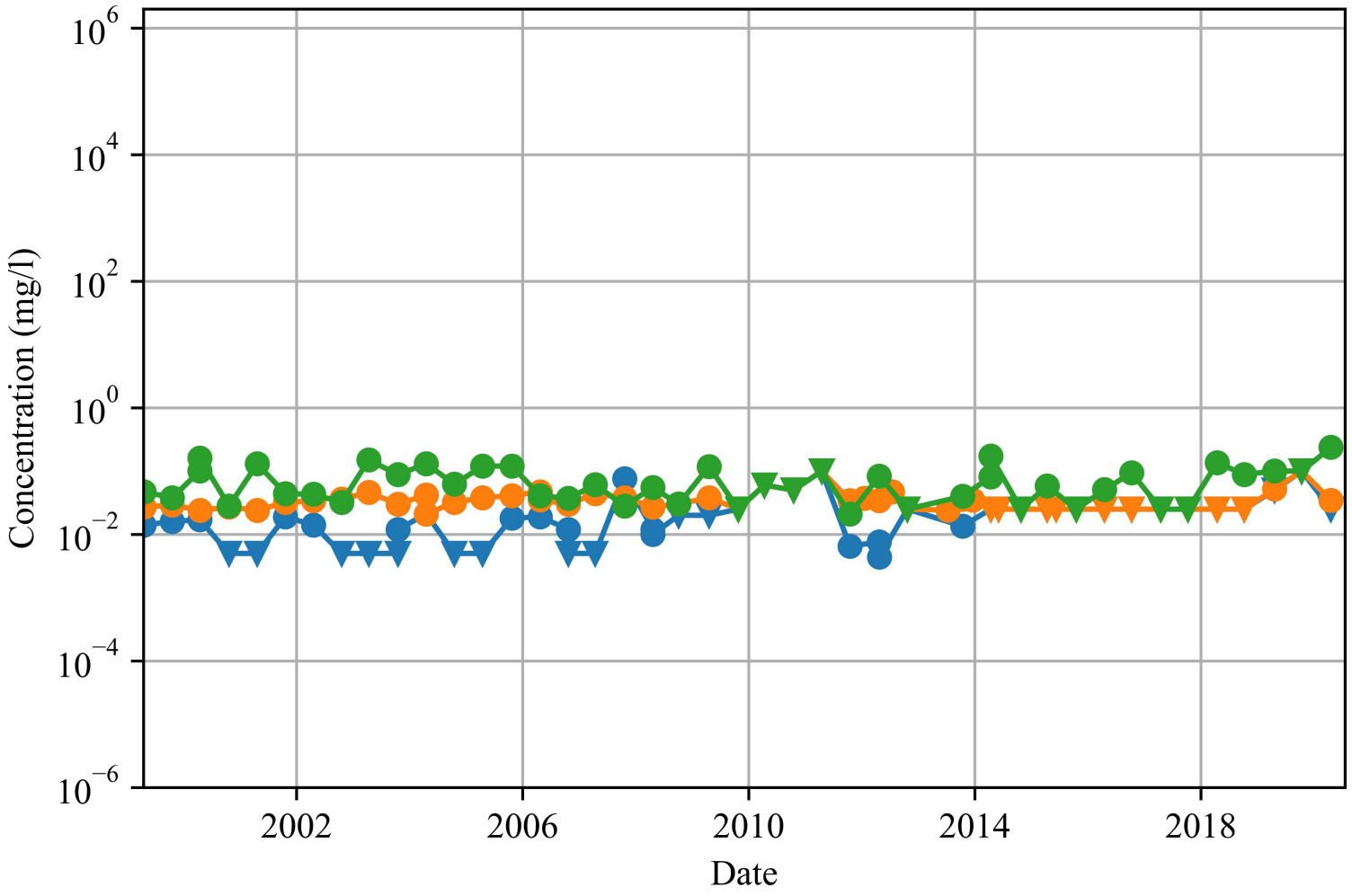
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-79:
Concentration vs. Time
Upgradient wells
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

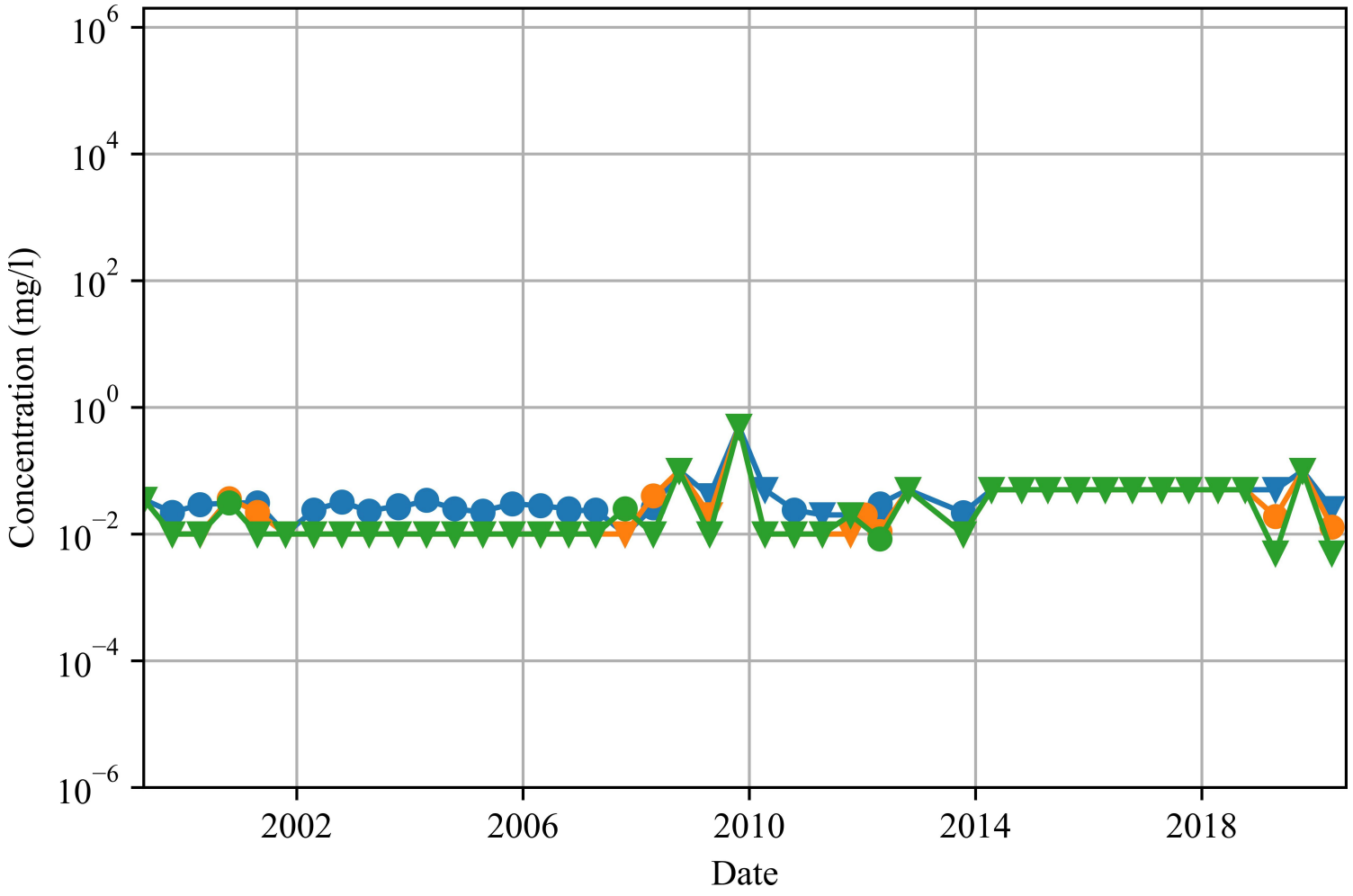
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-80:
Concentration vs. Time
Cell 8/WMA #3
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

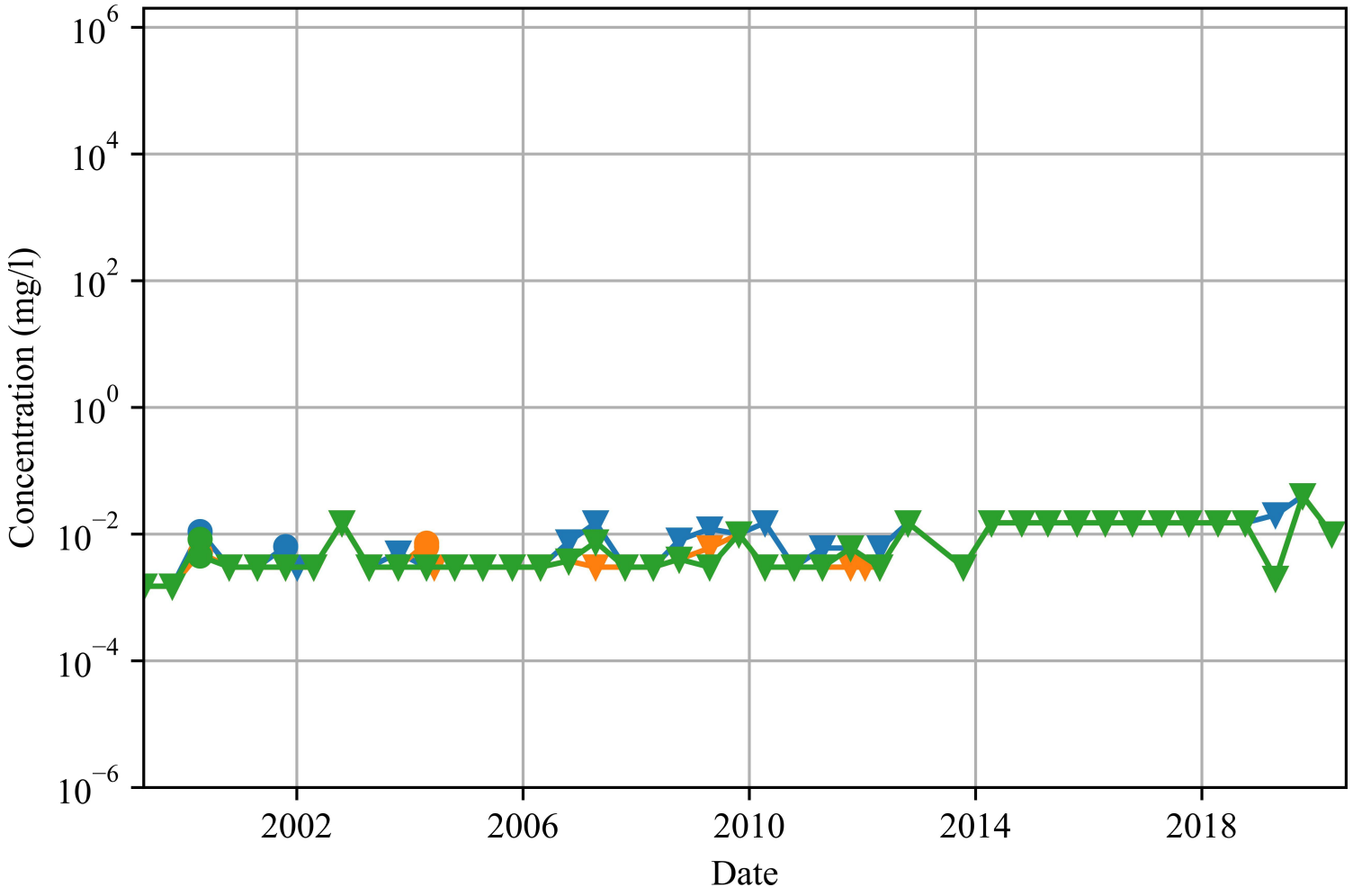
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-81:
Concentration vs. Time
Cell 8/WMA #3
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

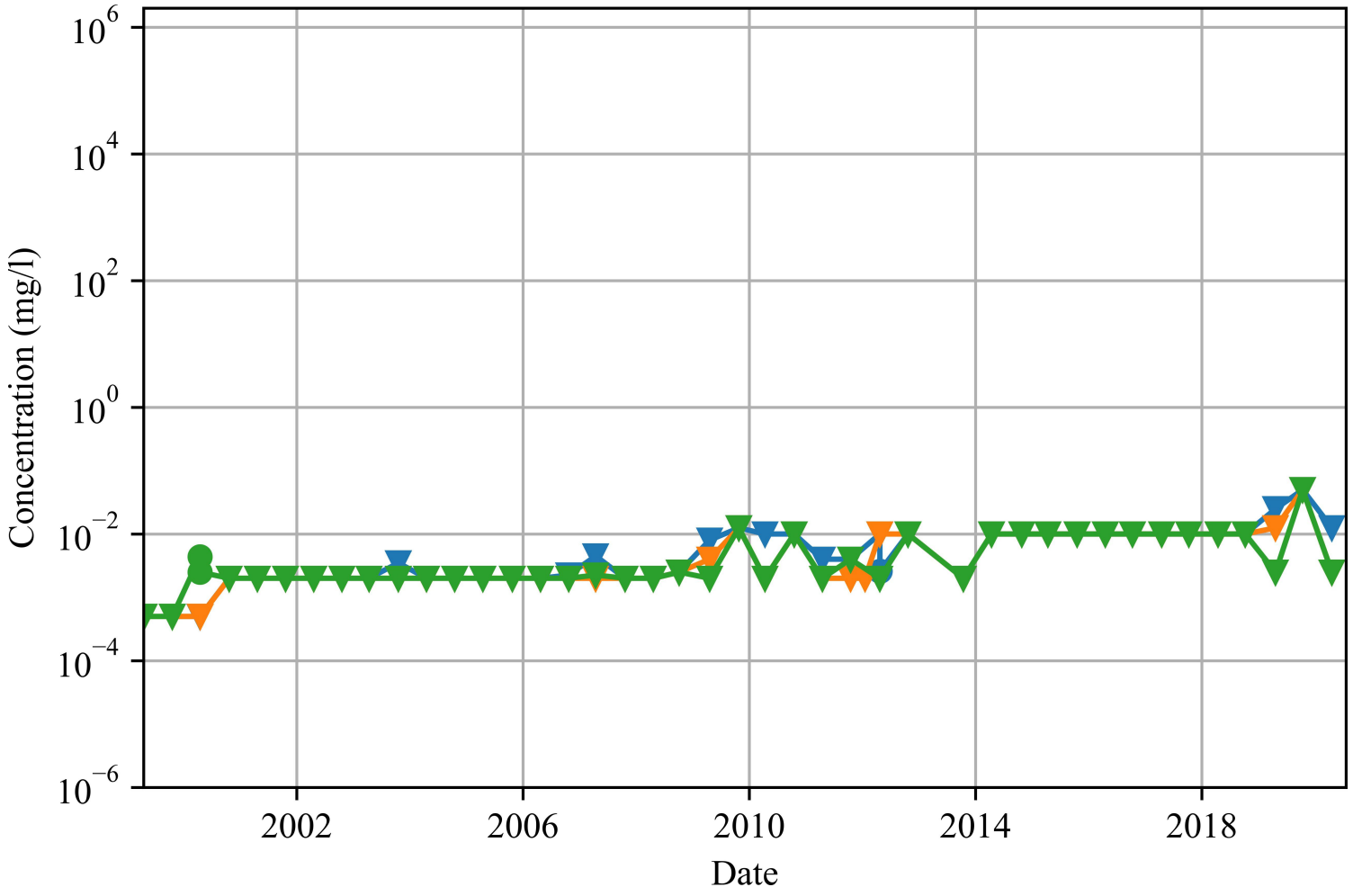
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-82:
Concentration vs. Time
Cell 8/WMA #3
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

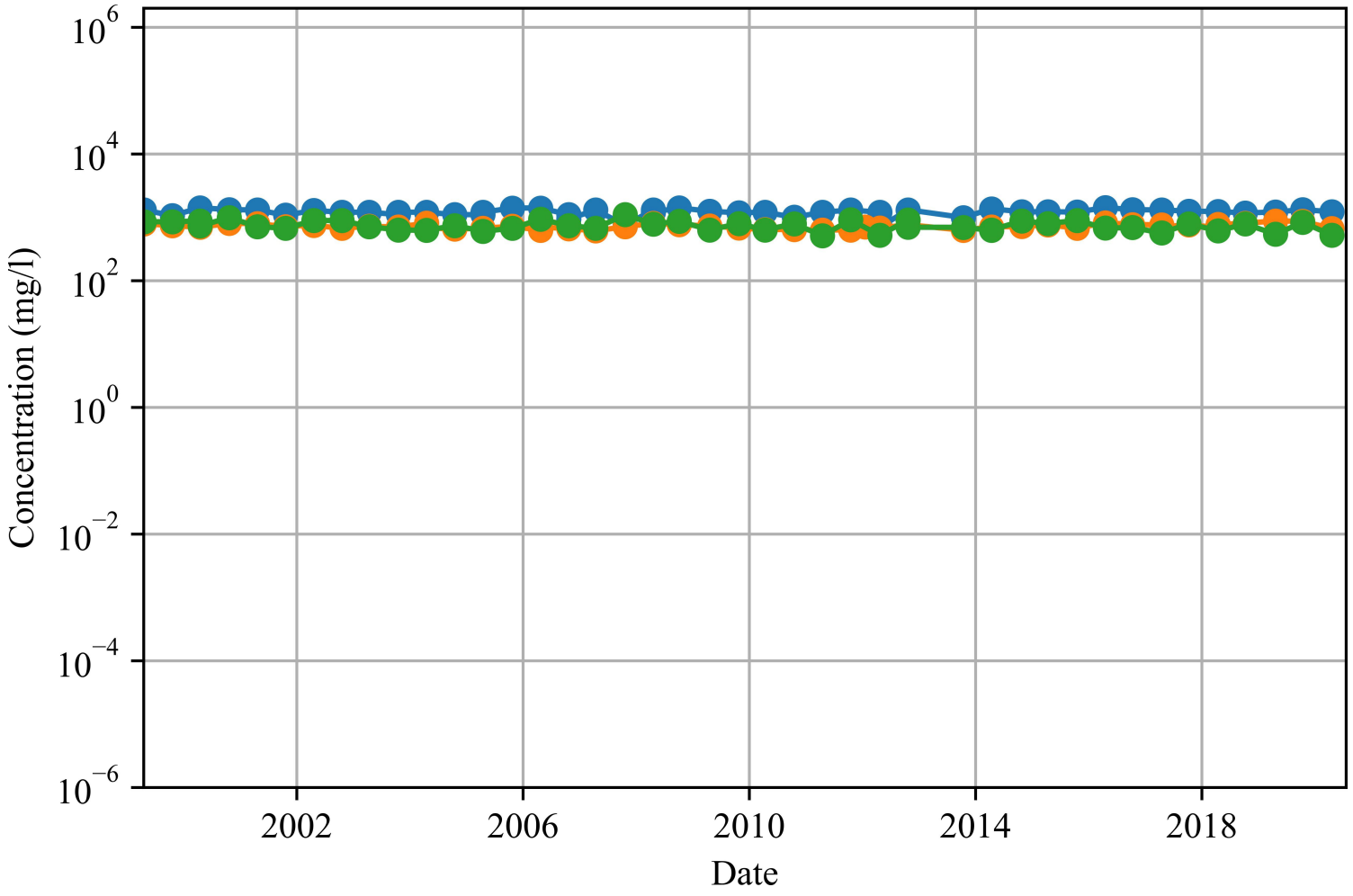
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-83:
Concentration vs. Time
Cell 8/WMA #3
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

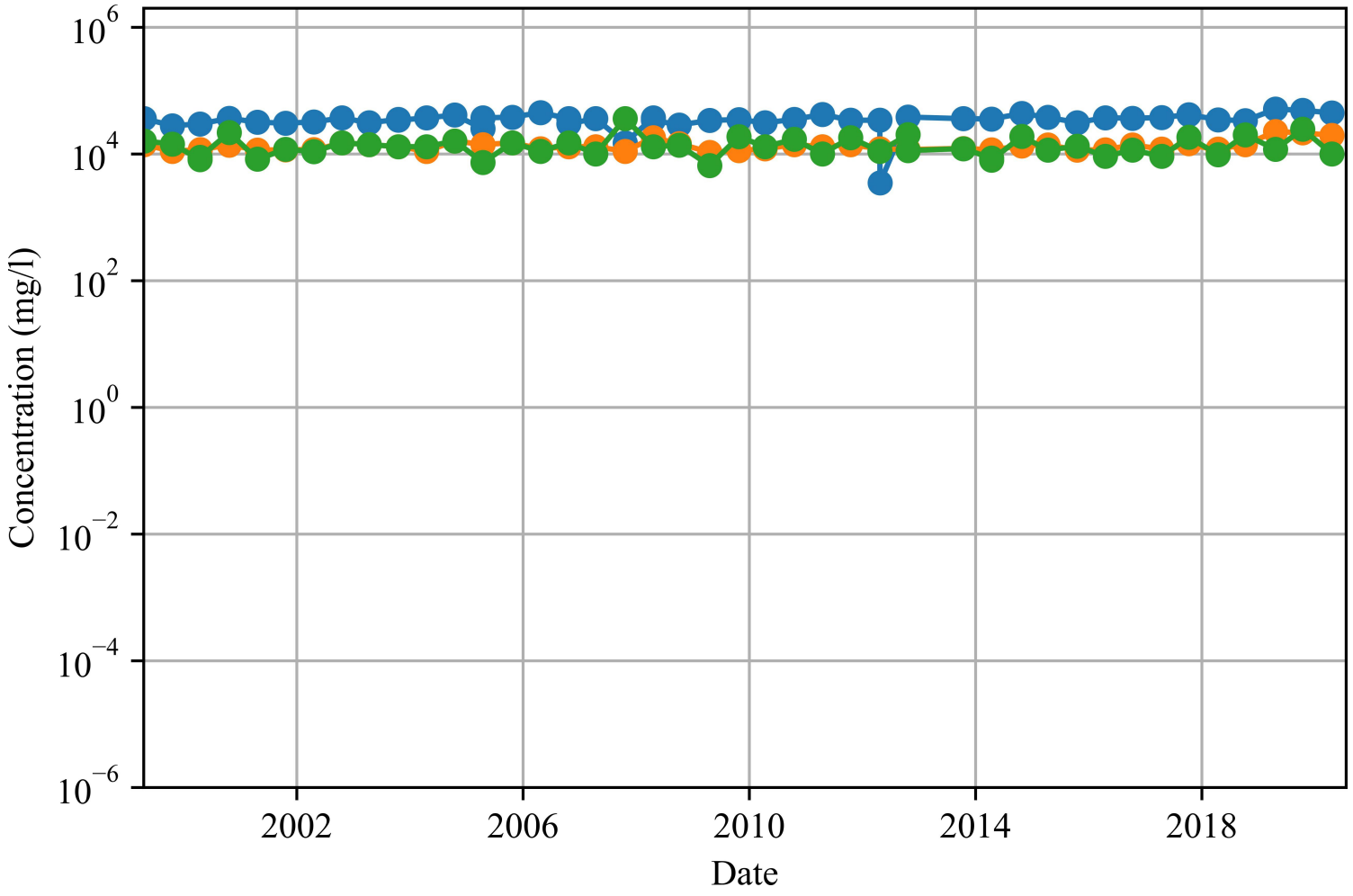
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-84:
Concentration vs. Time
Cell 8/WMA #3
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

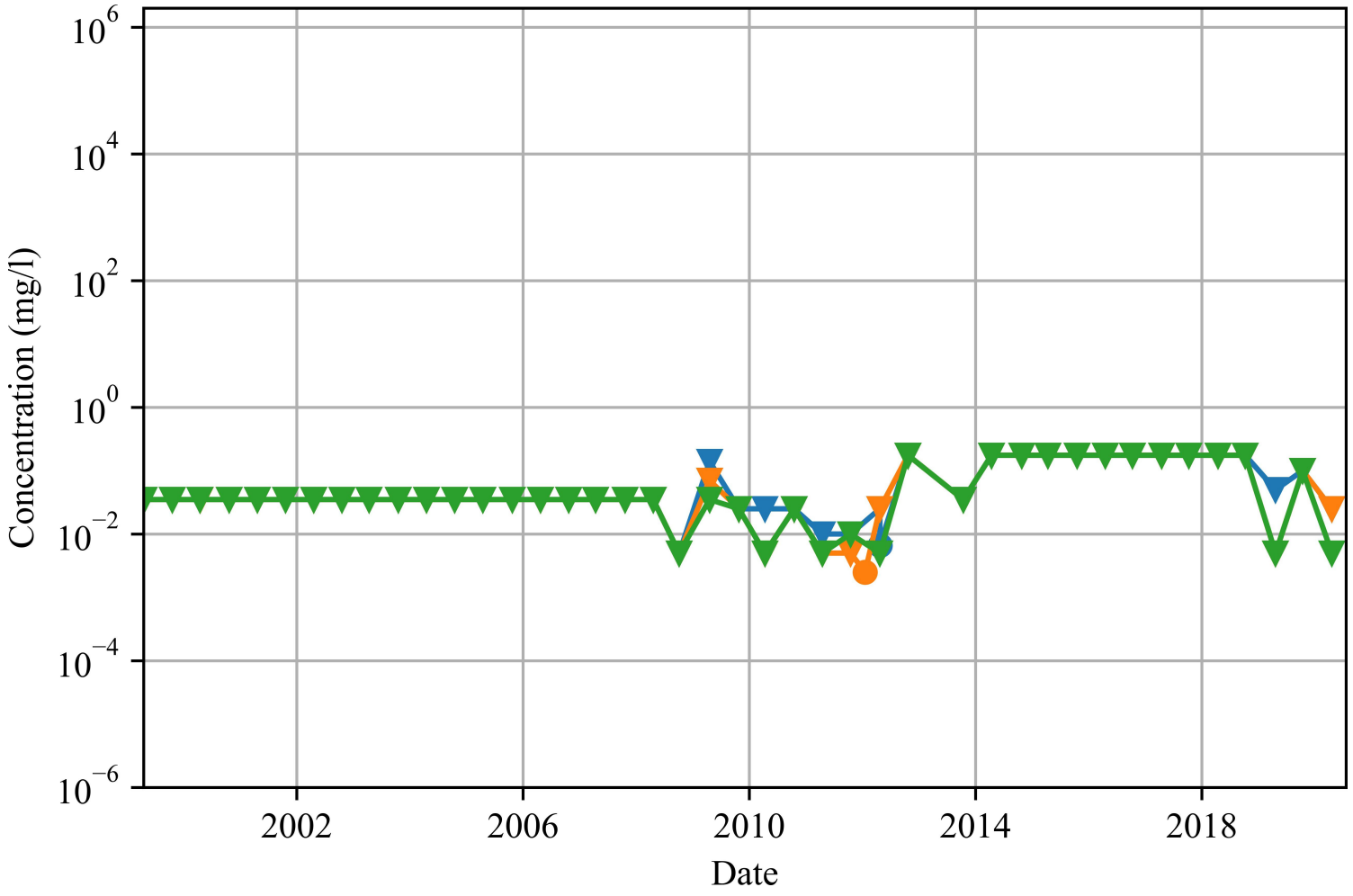
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-85:
Concentration vs. Time
Cell 8/WMA #3
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

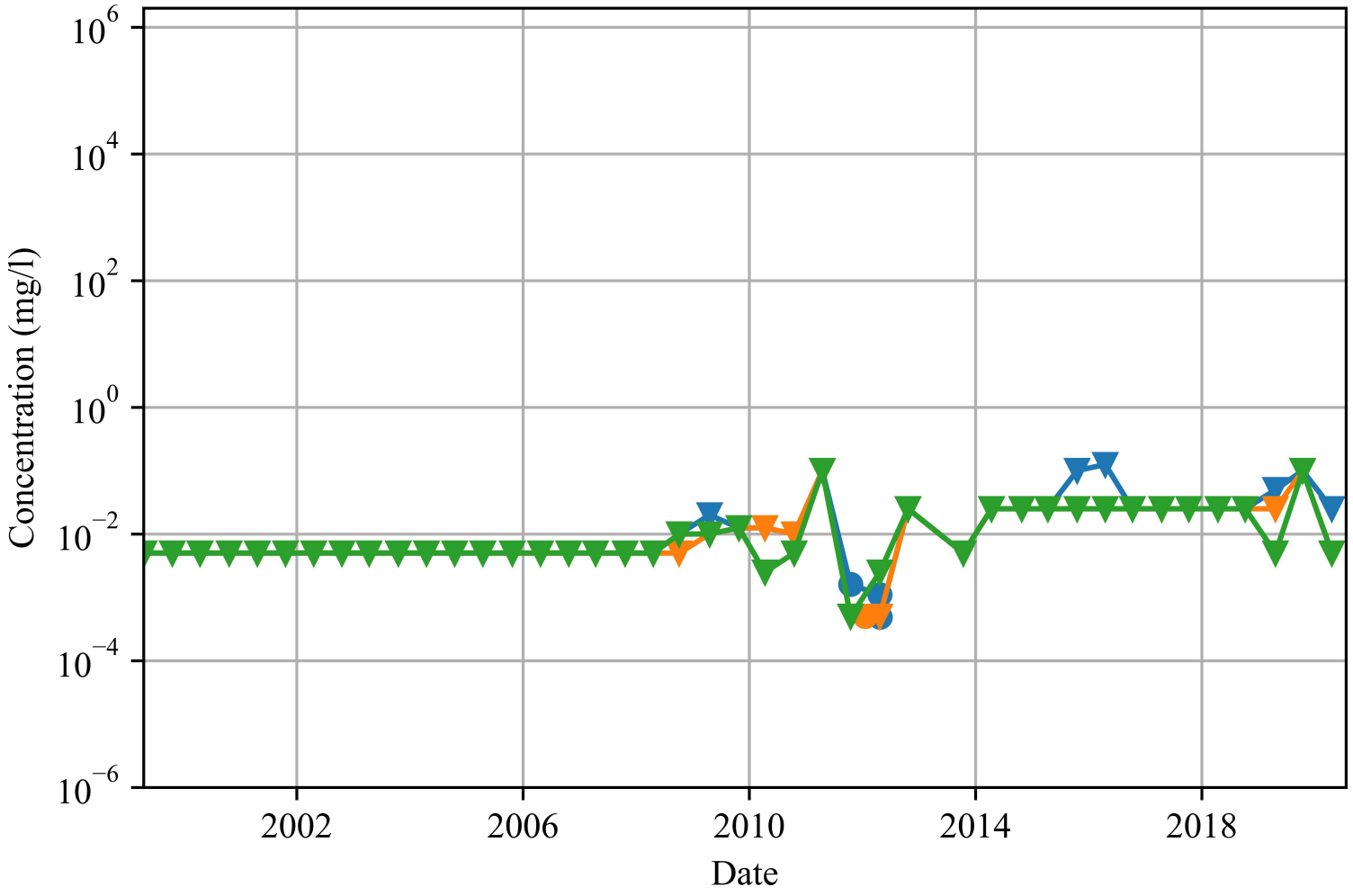
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-86:
Concentration vs. Time
Cell 8/WMA #3
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

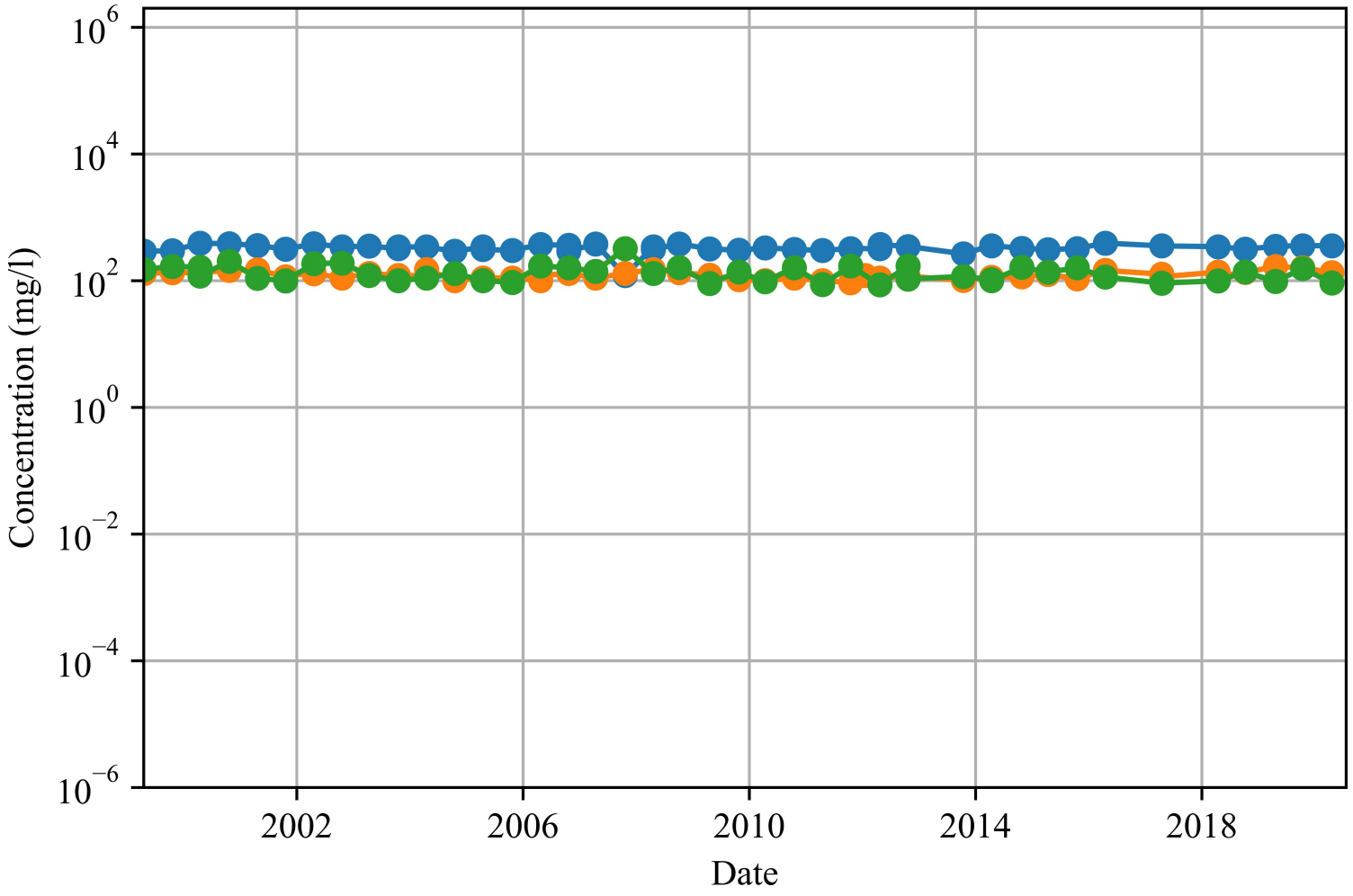
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-87:
Concentration vs. Time
Cell 8/WMA #3
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

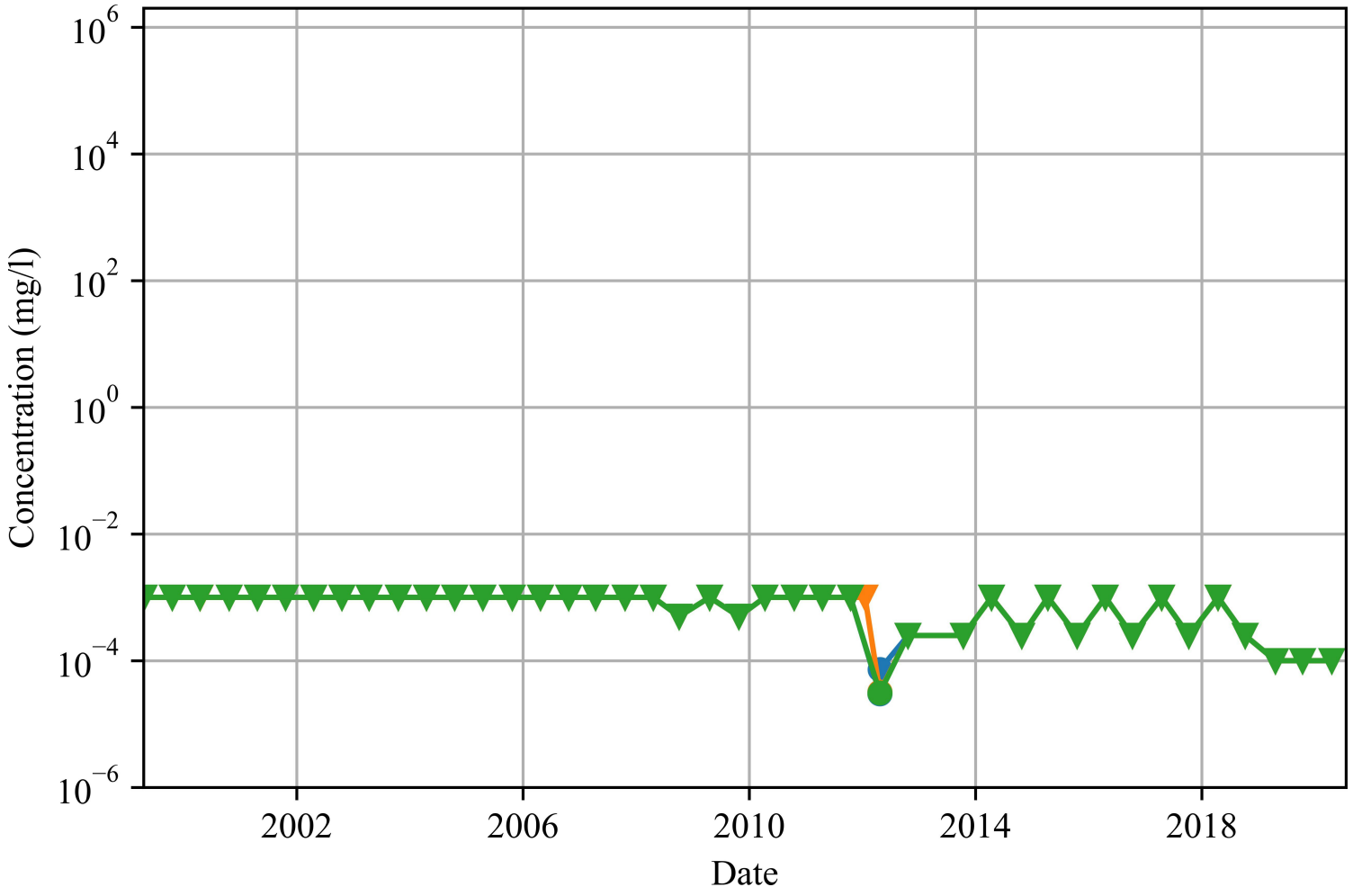
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-88:
Concentration vs. Time
Cell 8/WMA #3
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

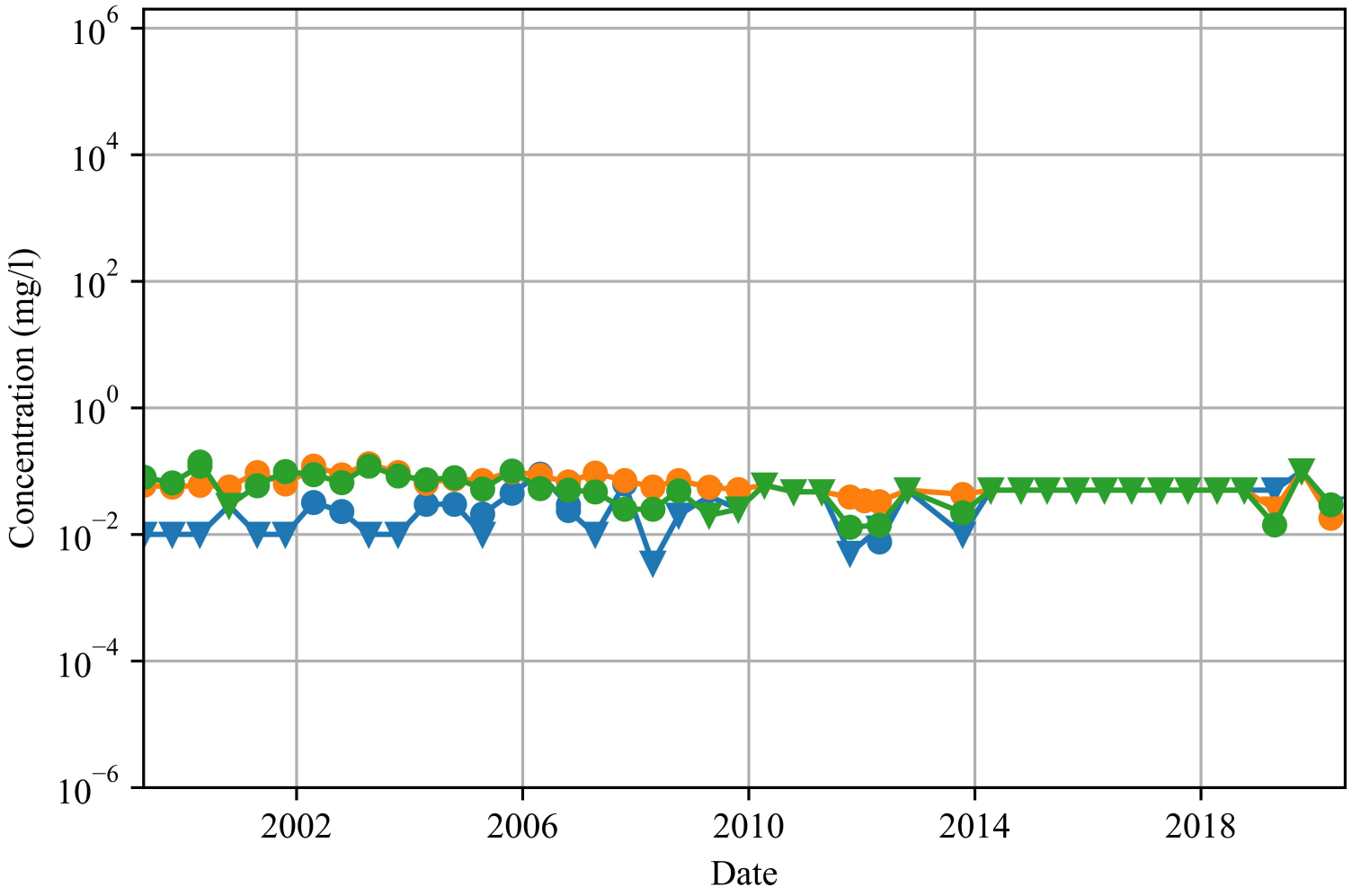
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-89:
Concentration vs. Time
Cell 8/WMA #3
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

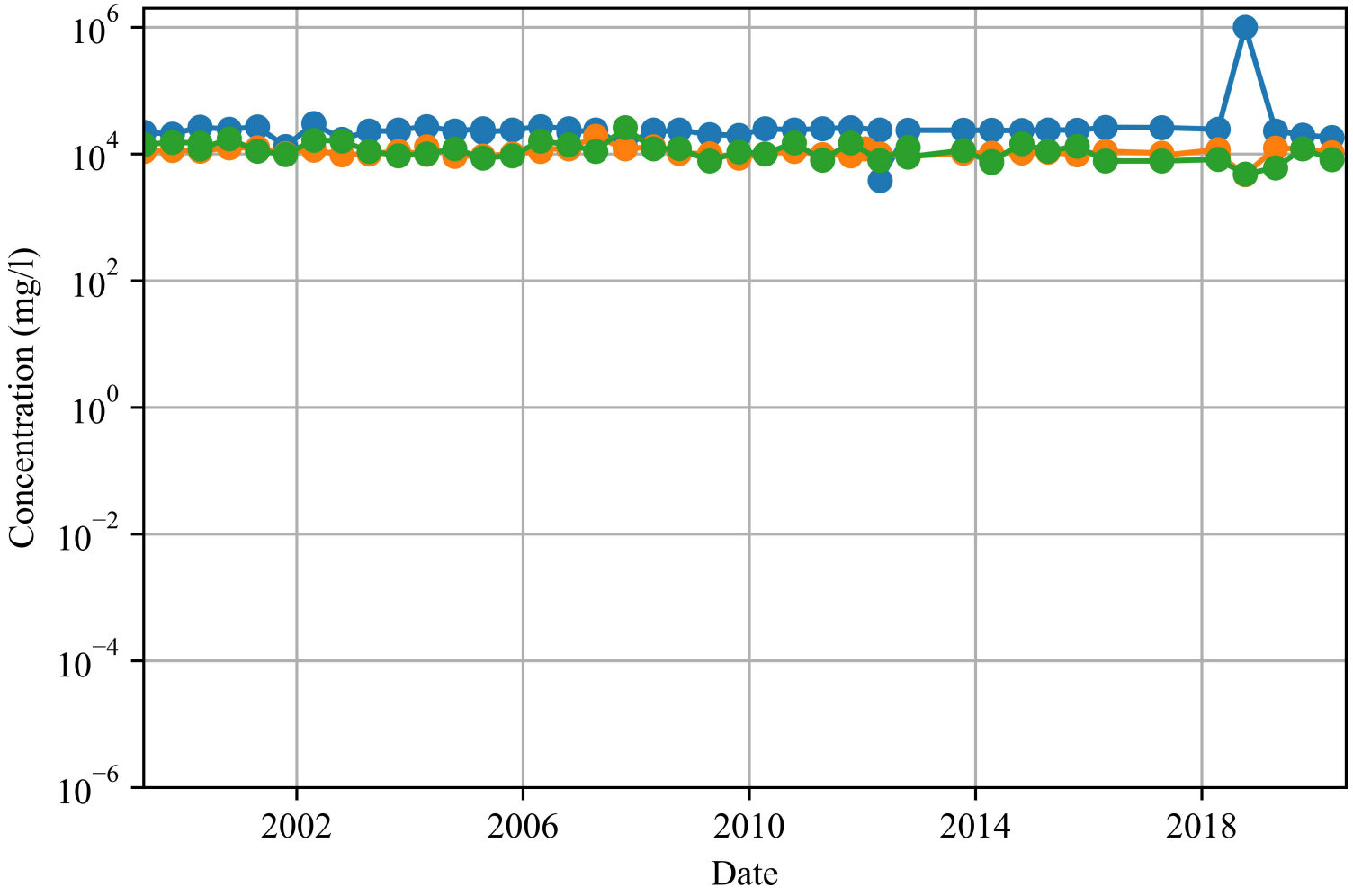
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-90:
Concentration vs. Time
Cell 8/WMA #3
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

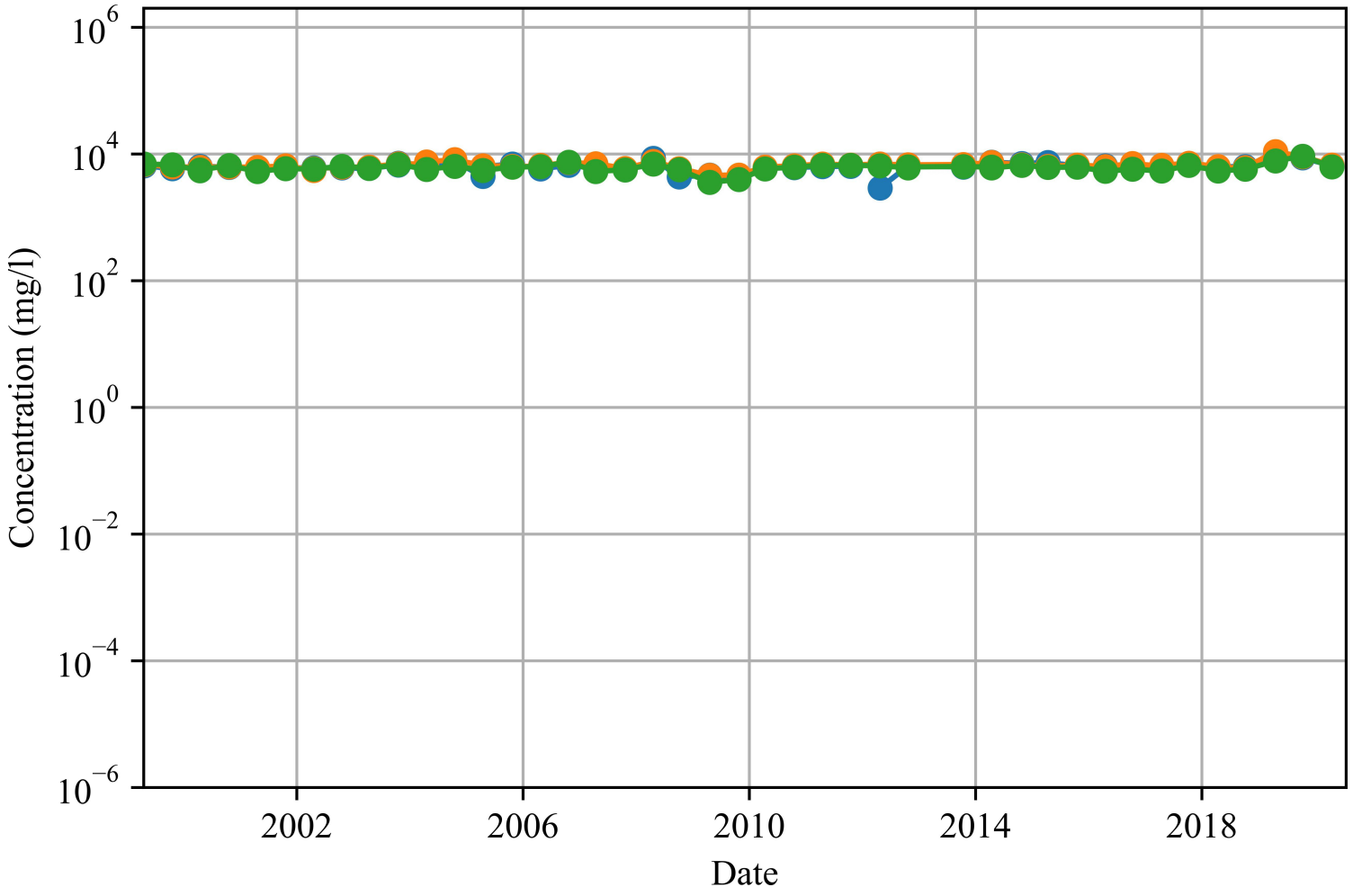
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-91:
Concentration vs. Time
Cell 8/WMA #3
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 8A1
- MW 8A2
- MW 8A3
- Detect
- Non-detect

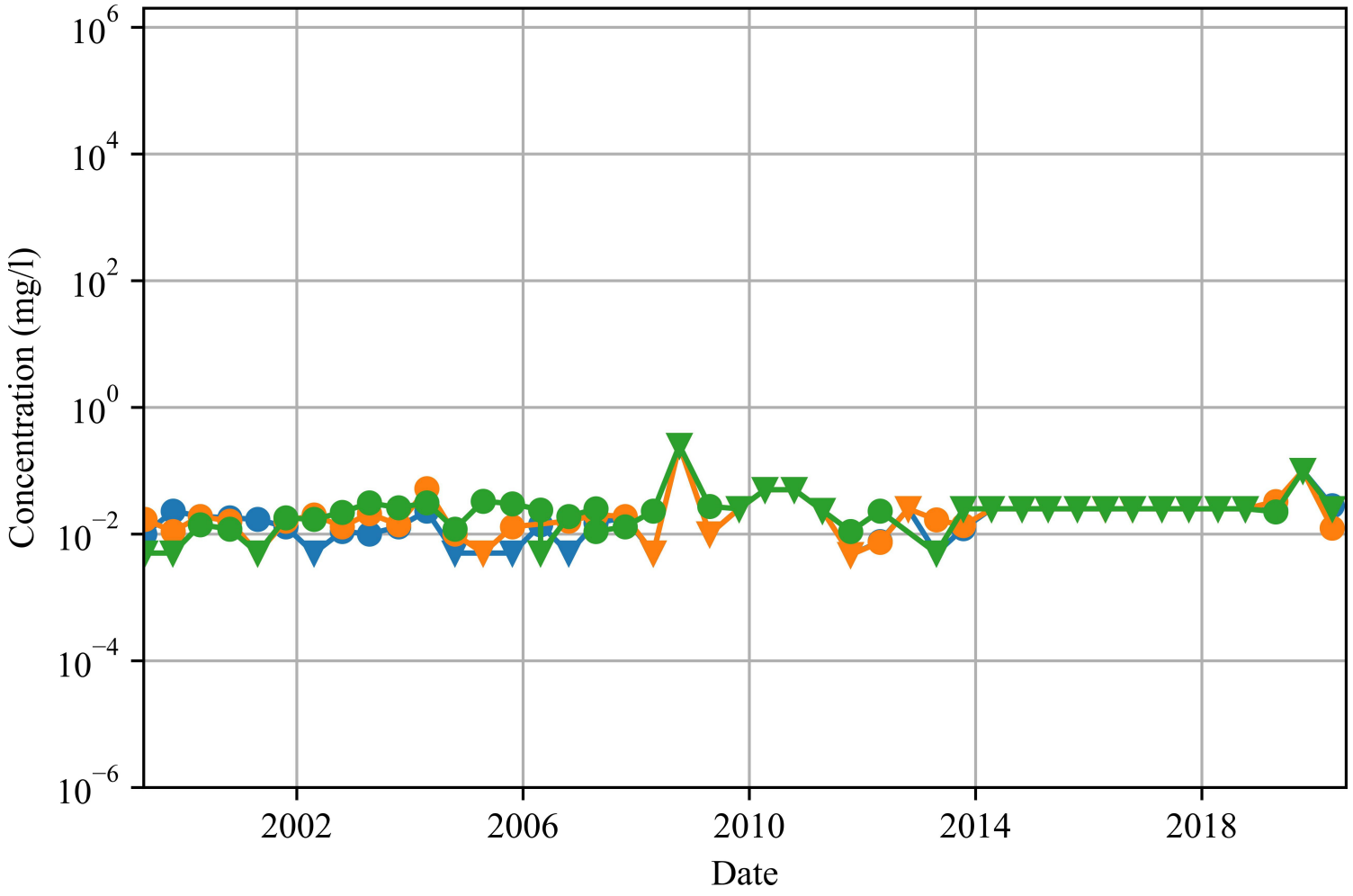
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-92:
Concentration vs. Time
Cell 8/WMA #3
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

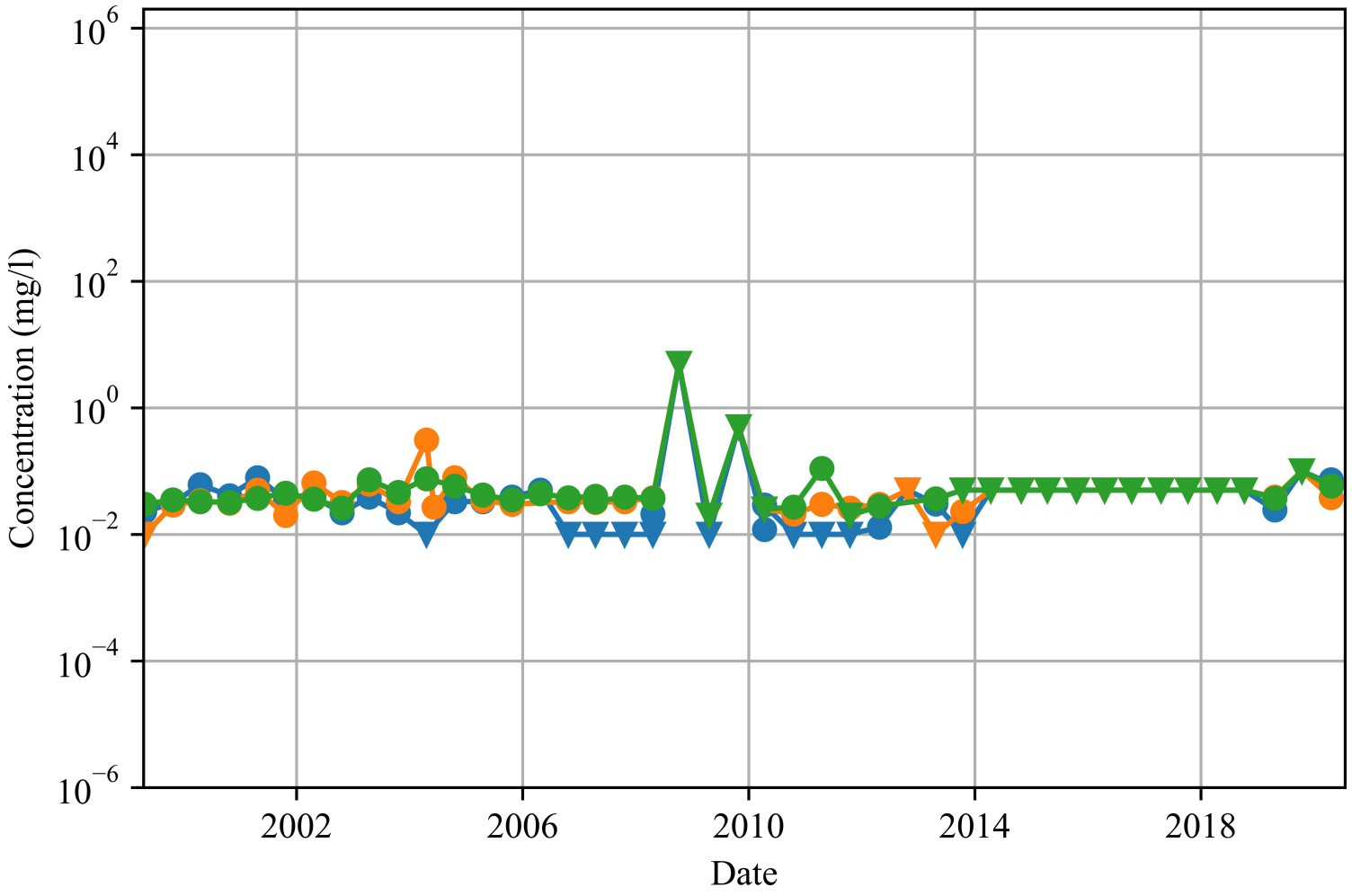
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-93:
Concentration vs. Time
Cell 12/WMA #8
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

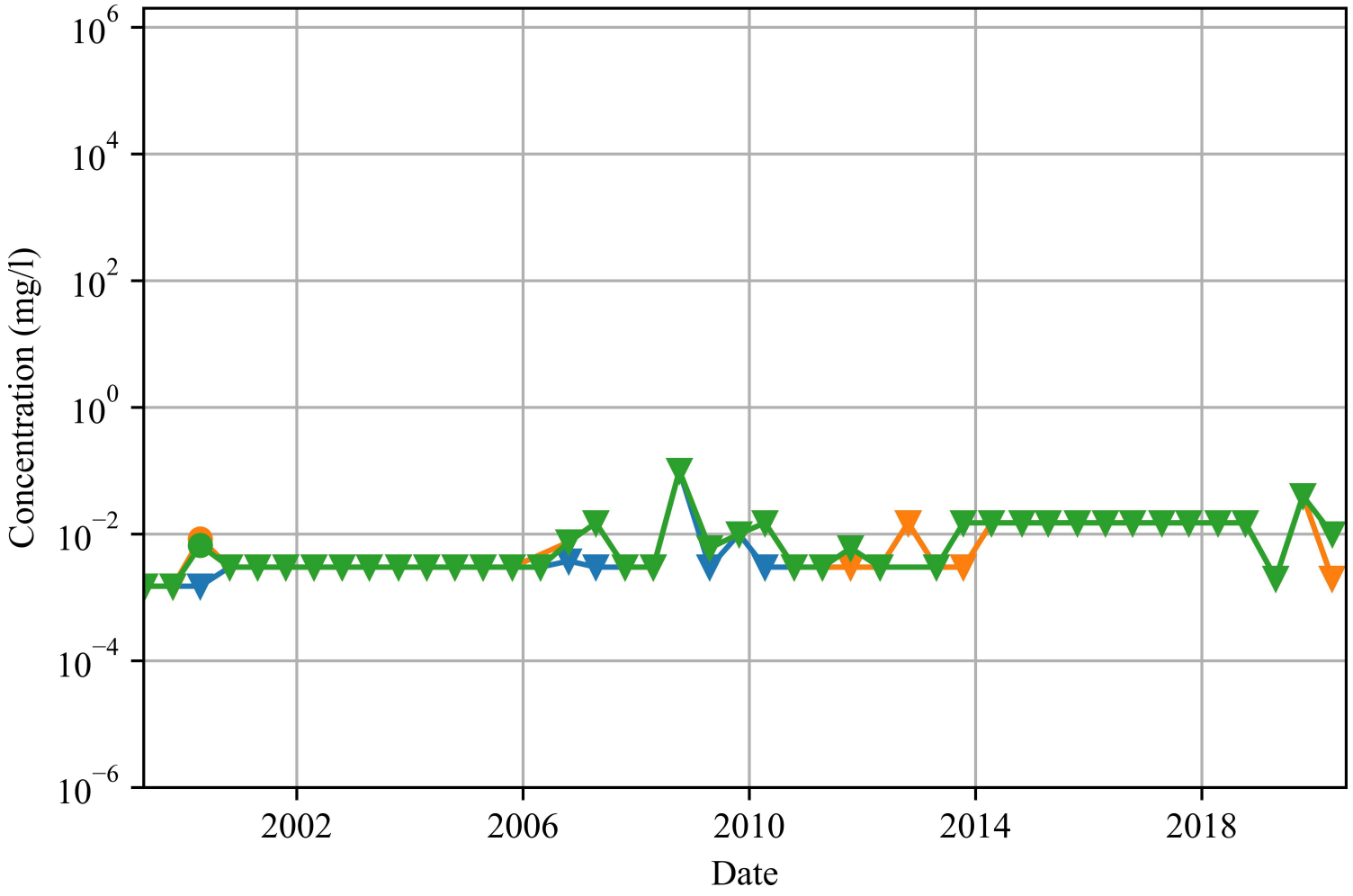
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-94:
Concentration vs. Time
Cell 12/WMA #8
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

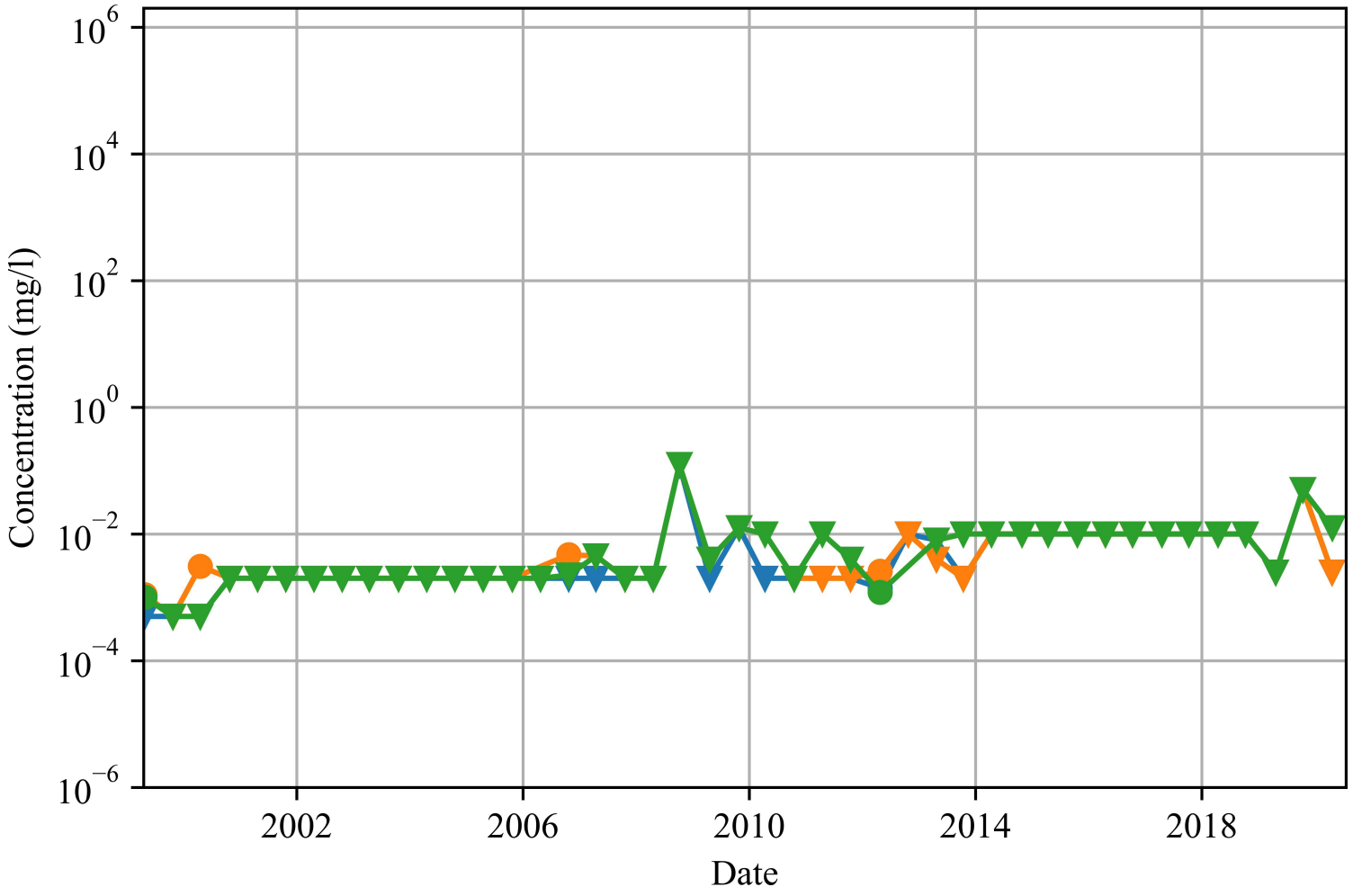
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-95:
Concentration vs. Time
Cell 12/WMA #8
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

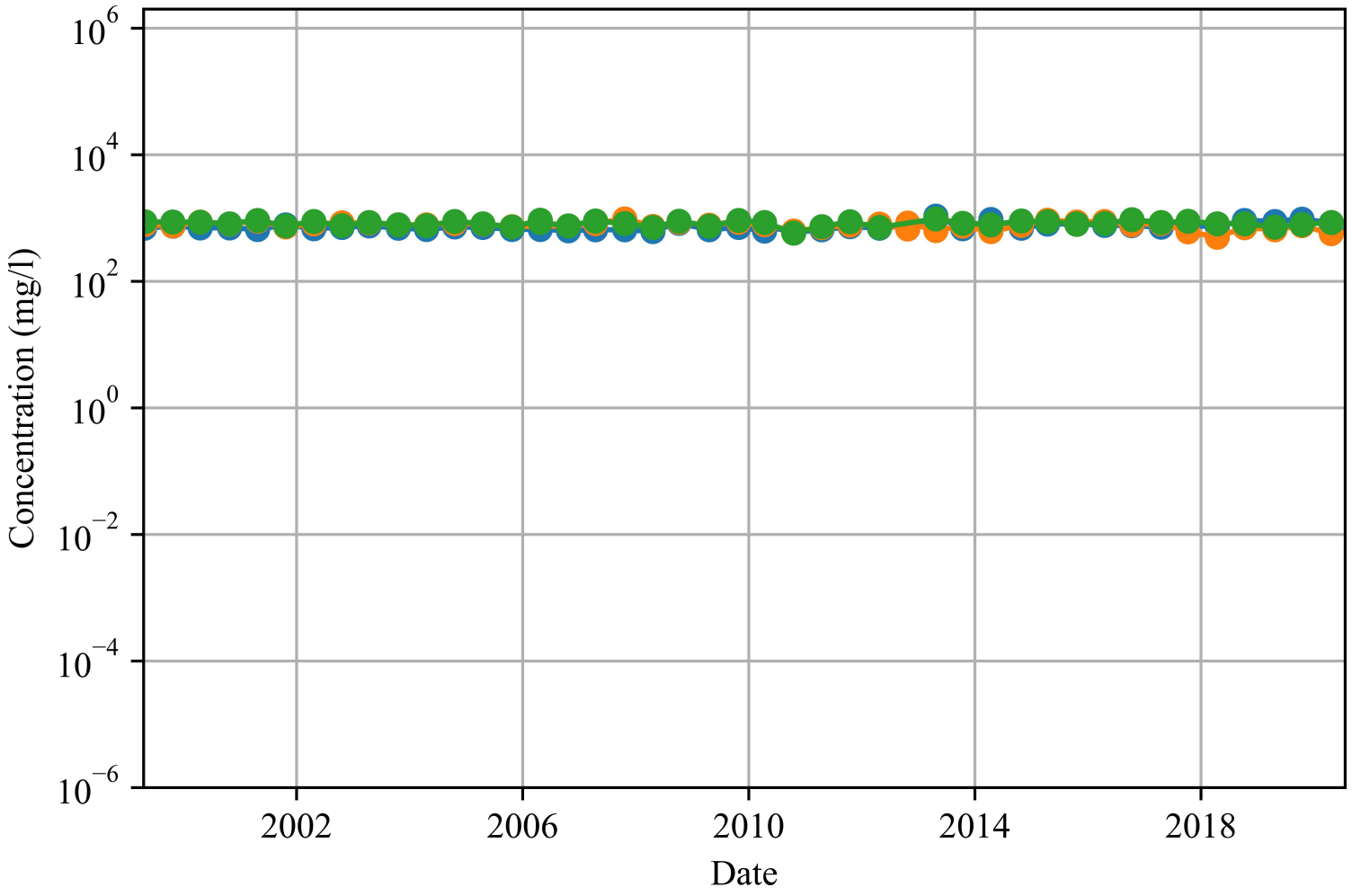
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-96:
Concentration vs. Time
Cell 12/WMA #8
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

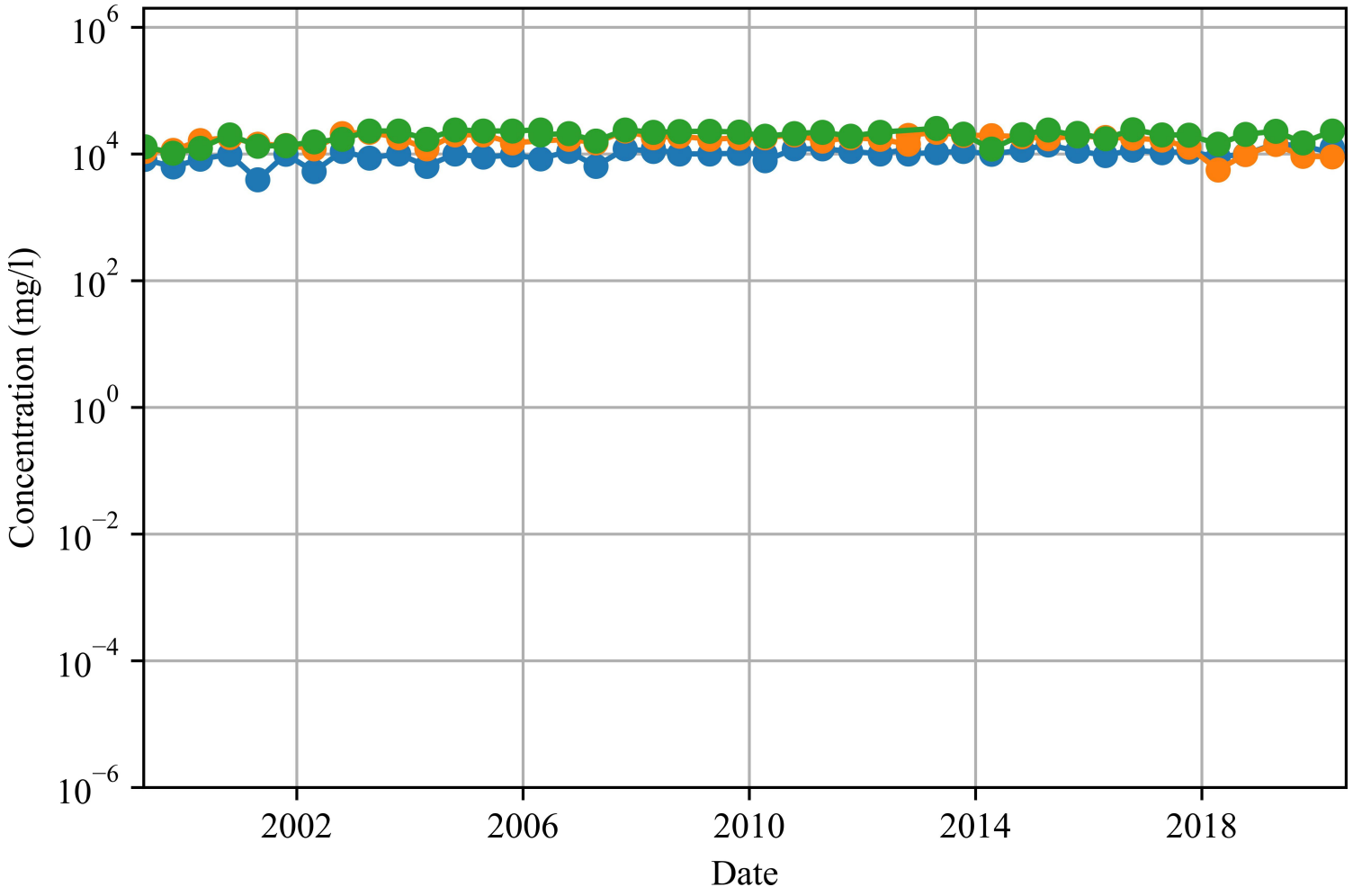
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-97:
Concentration vs. Time
Cell 12/WMA #8
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

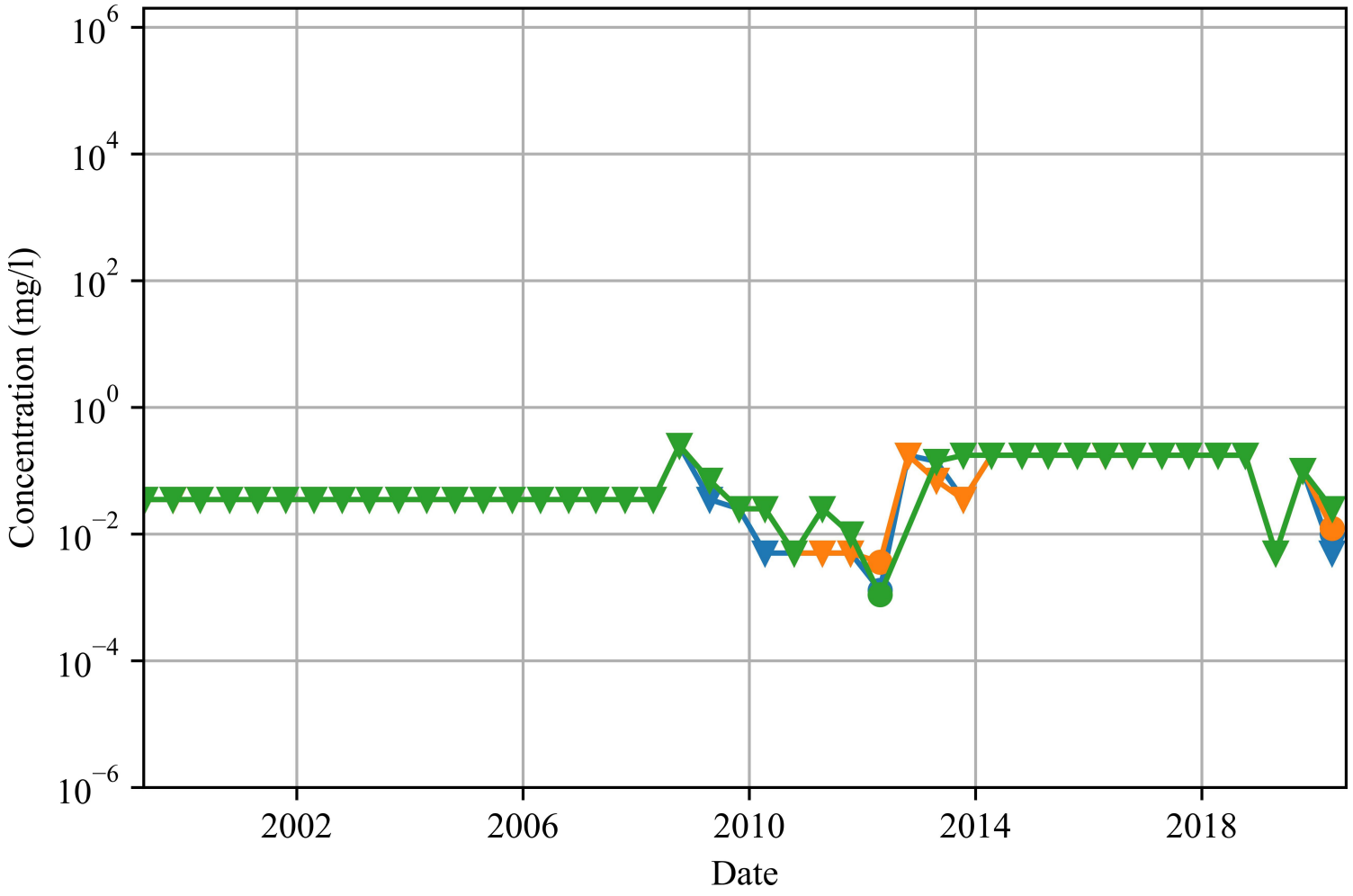
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-98:
Concentration vs. Time
Cell 12/WMA #8
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

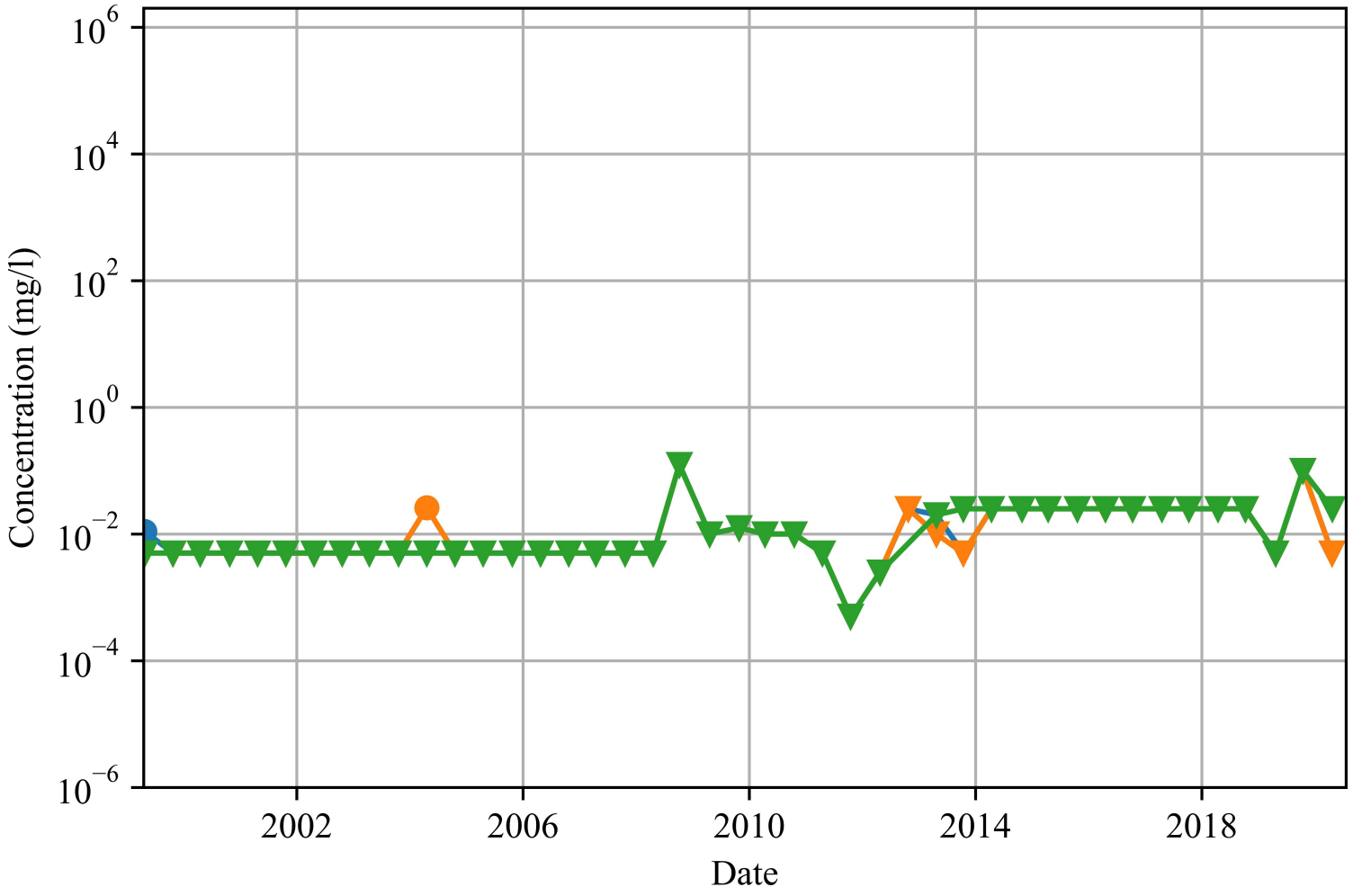
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-99:
Concentration vs. Time
Cell 12/WMA #8
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

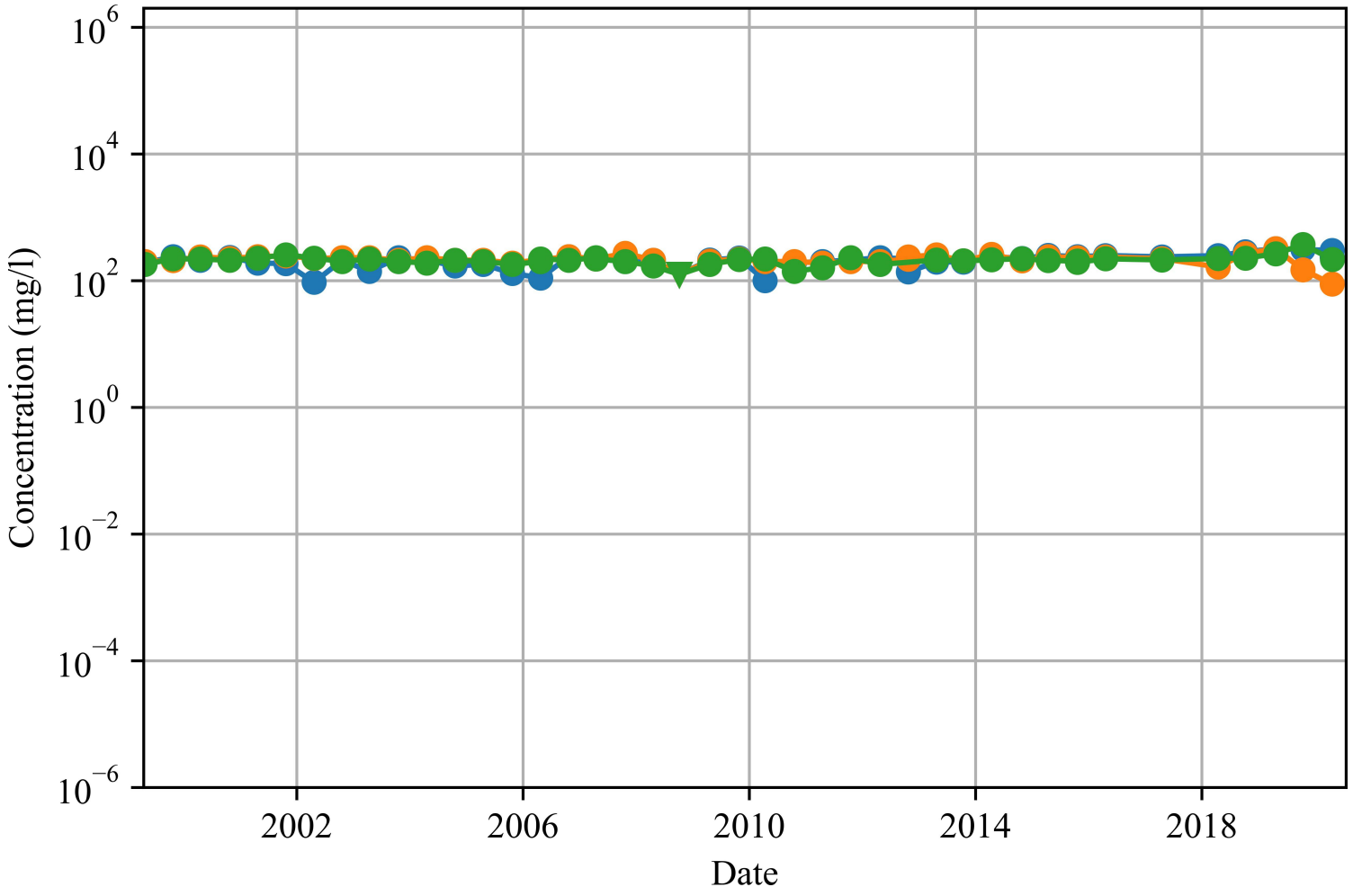
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-100:
Concentration vs. Time
Cell 12/WMA #8
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

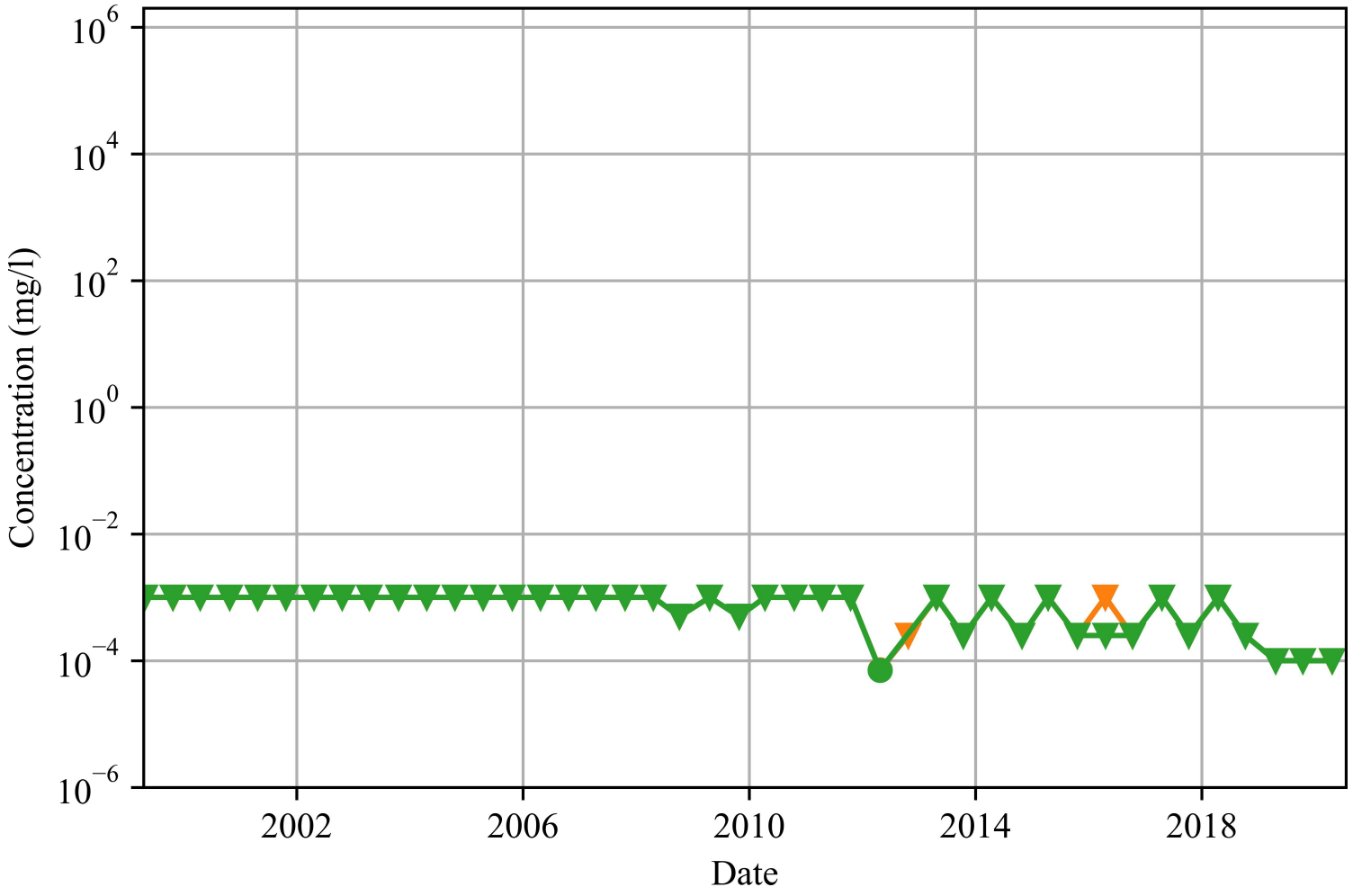
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-101:
Concentration vs. Time
Cell 12/WMA #8
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

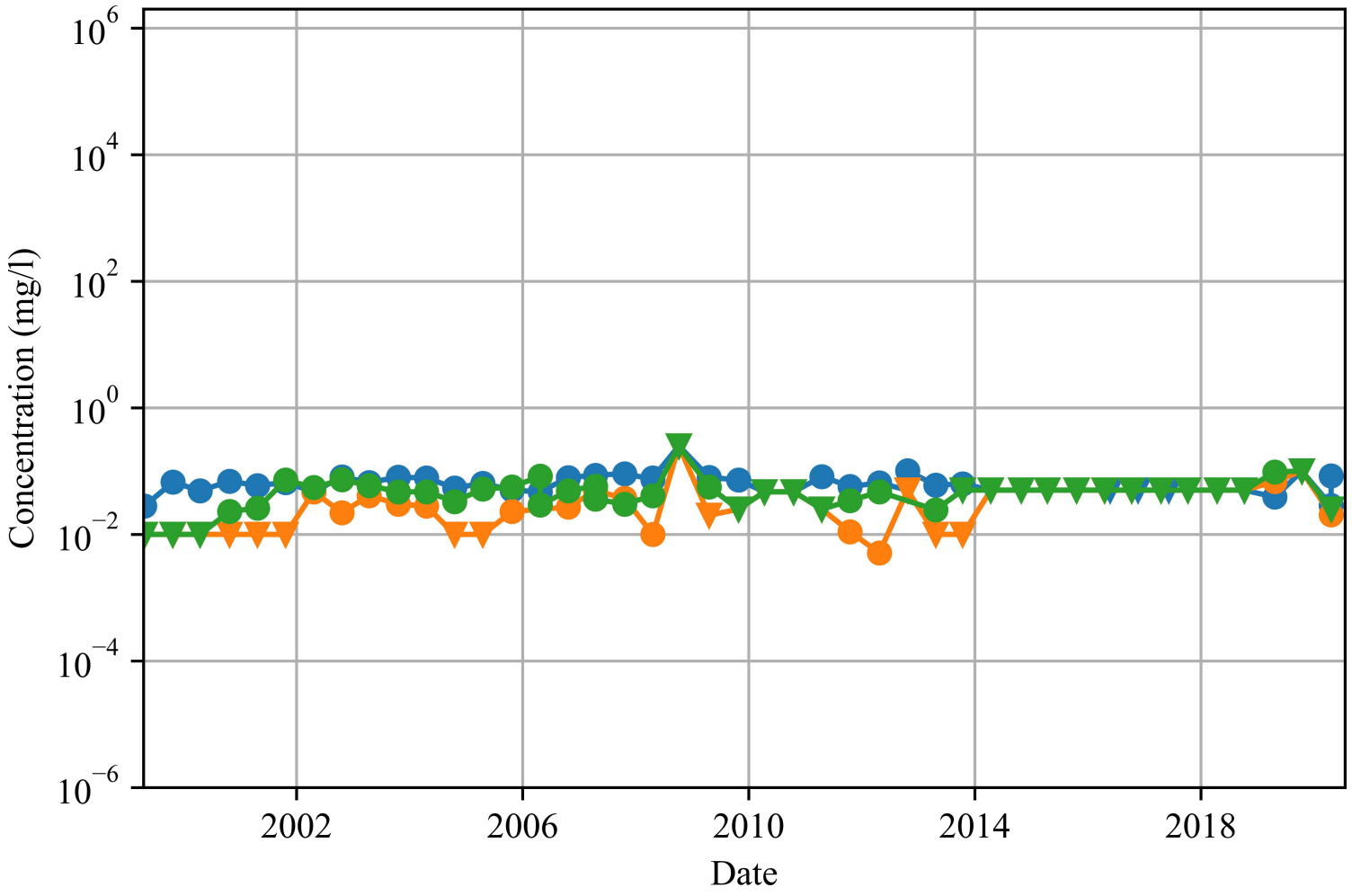
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-102:
Concentration vs. Time
Cell 12/WMA #8
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

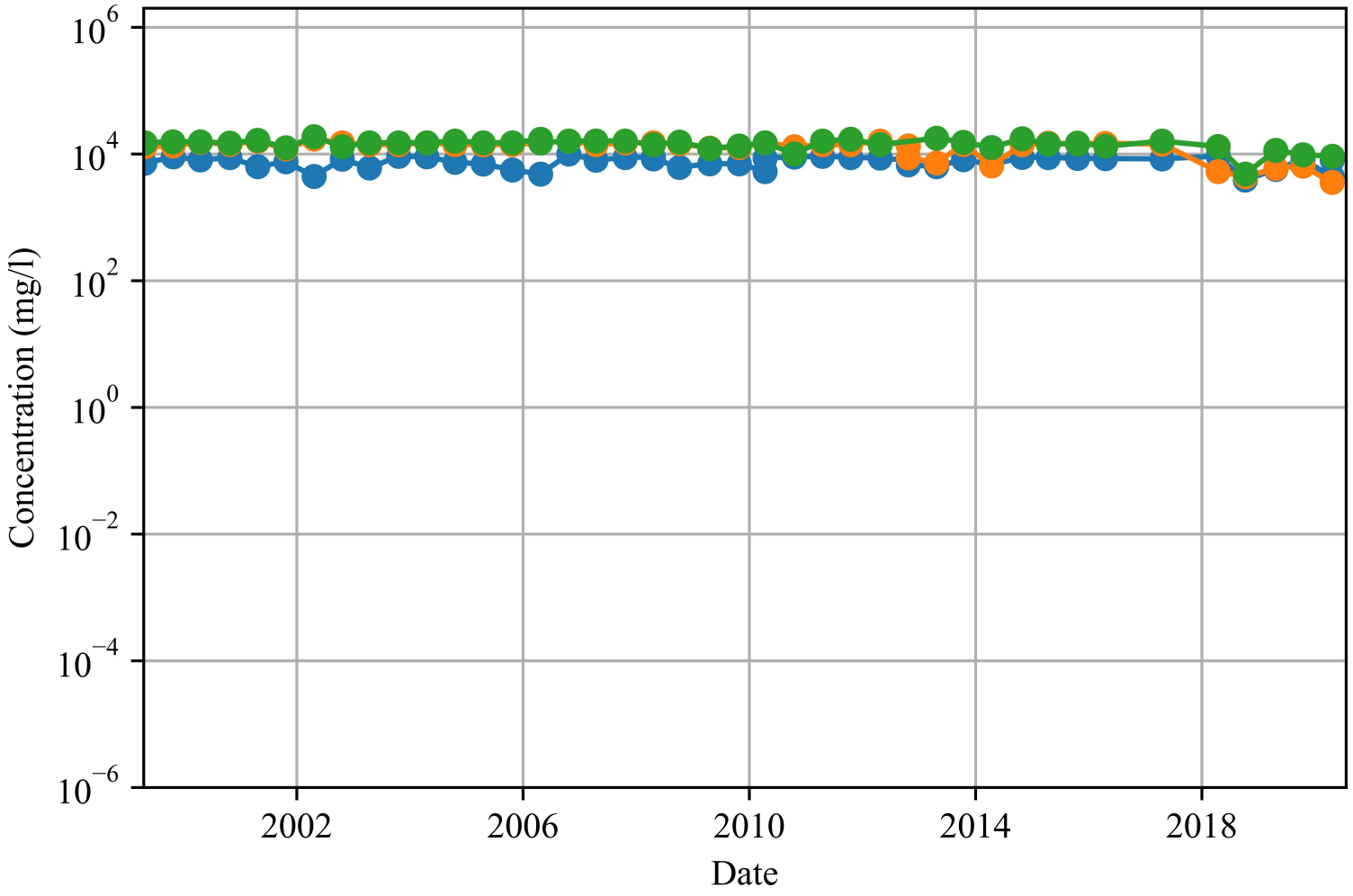
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-103:
Concentration vs. Time
Cell 12/WMA #8
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

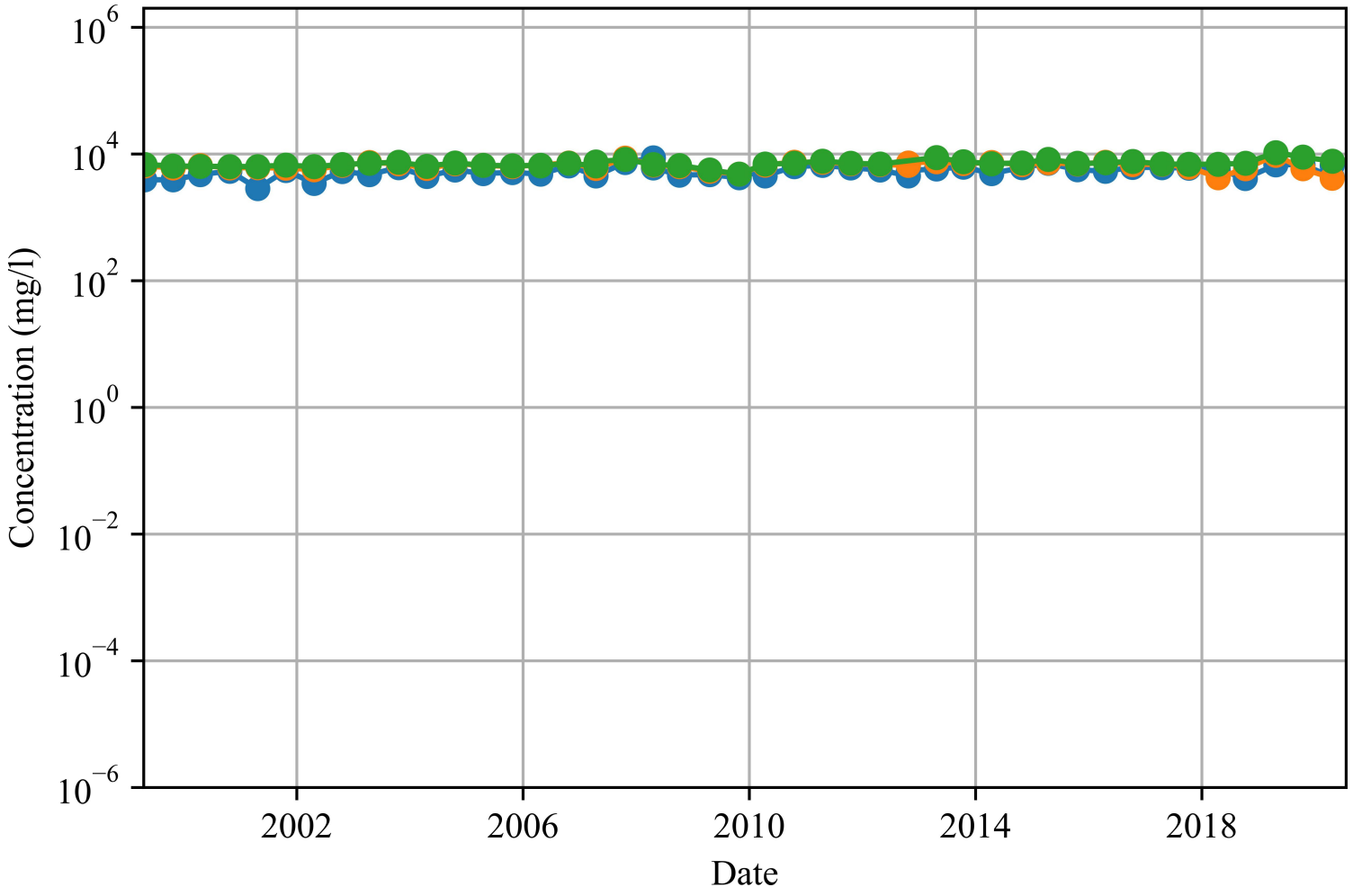
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-104:
Concentration vs. Time
Cell 12/WMA #8
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 12A1
- MW 12B1
- MW 12B2
- Detect
- Non-detect

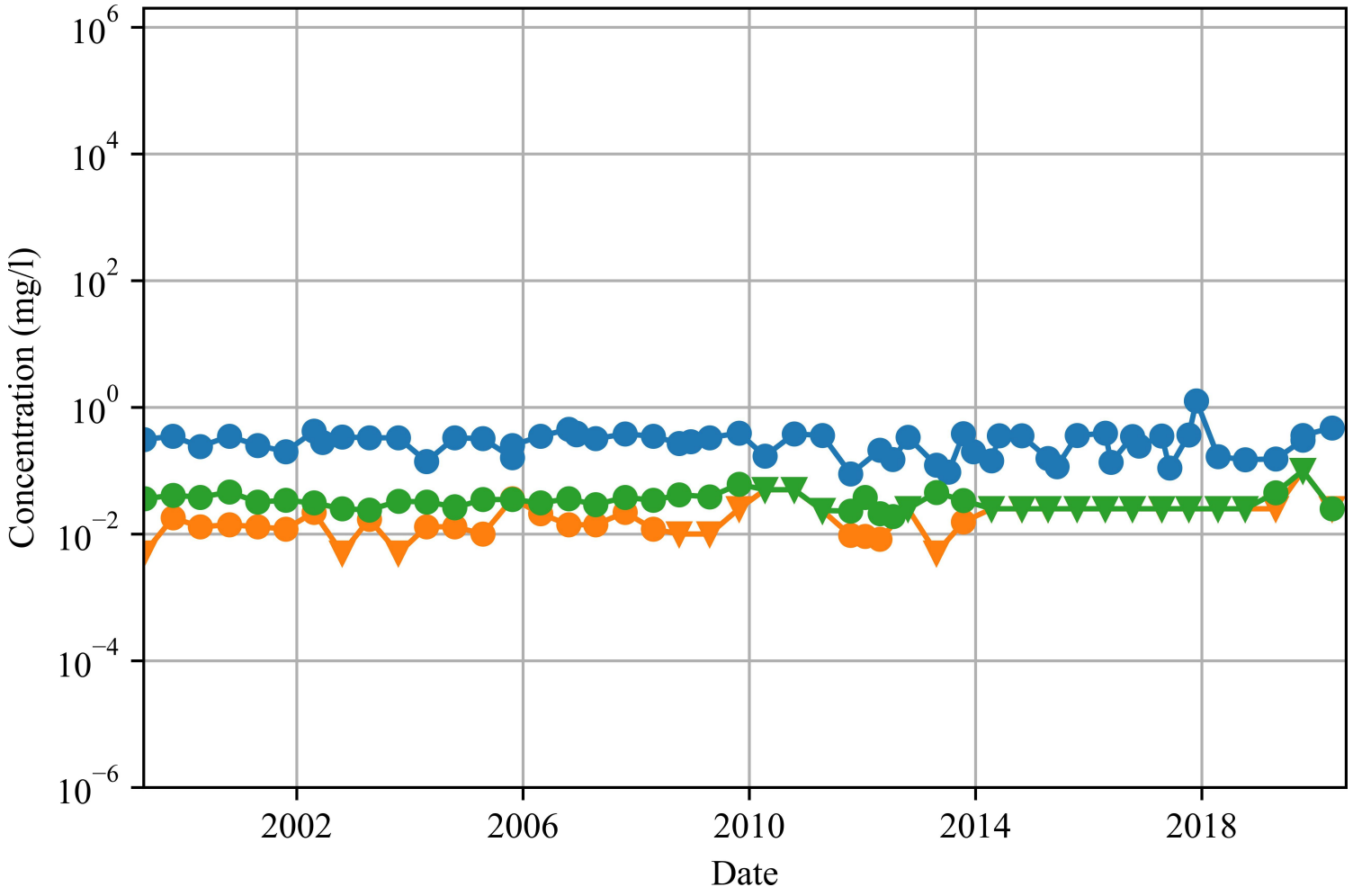
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-105:
Concentration vs. Time
Cell 12/WMA #8
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

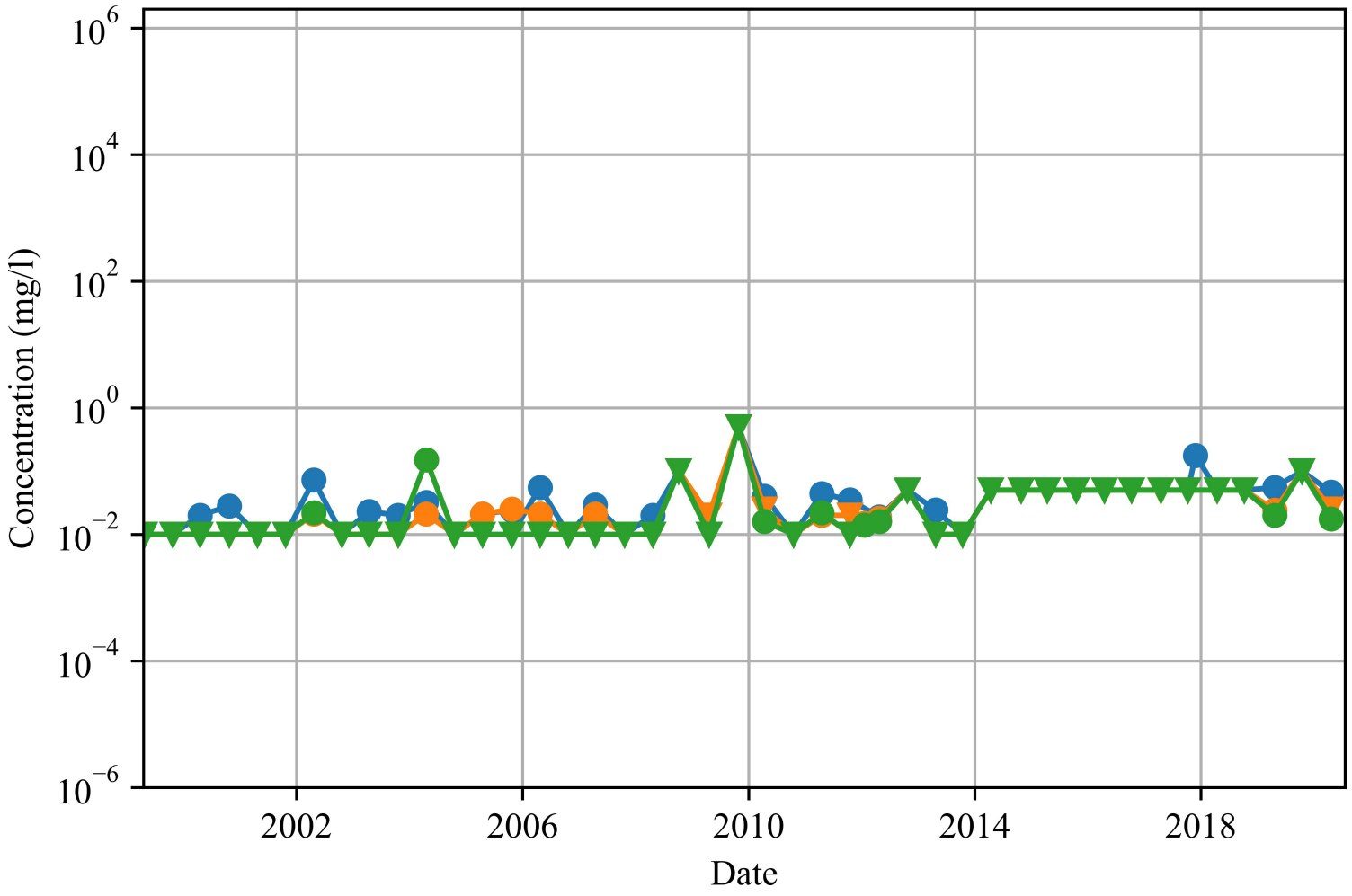
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-106:
Concentration vs. Time
Cell 11/WMA #1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

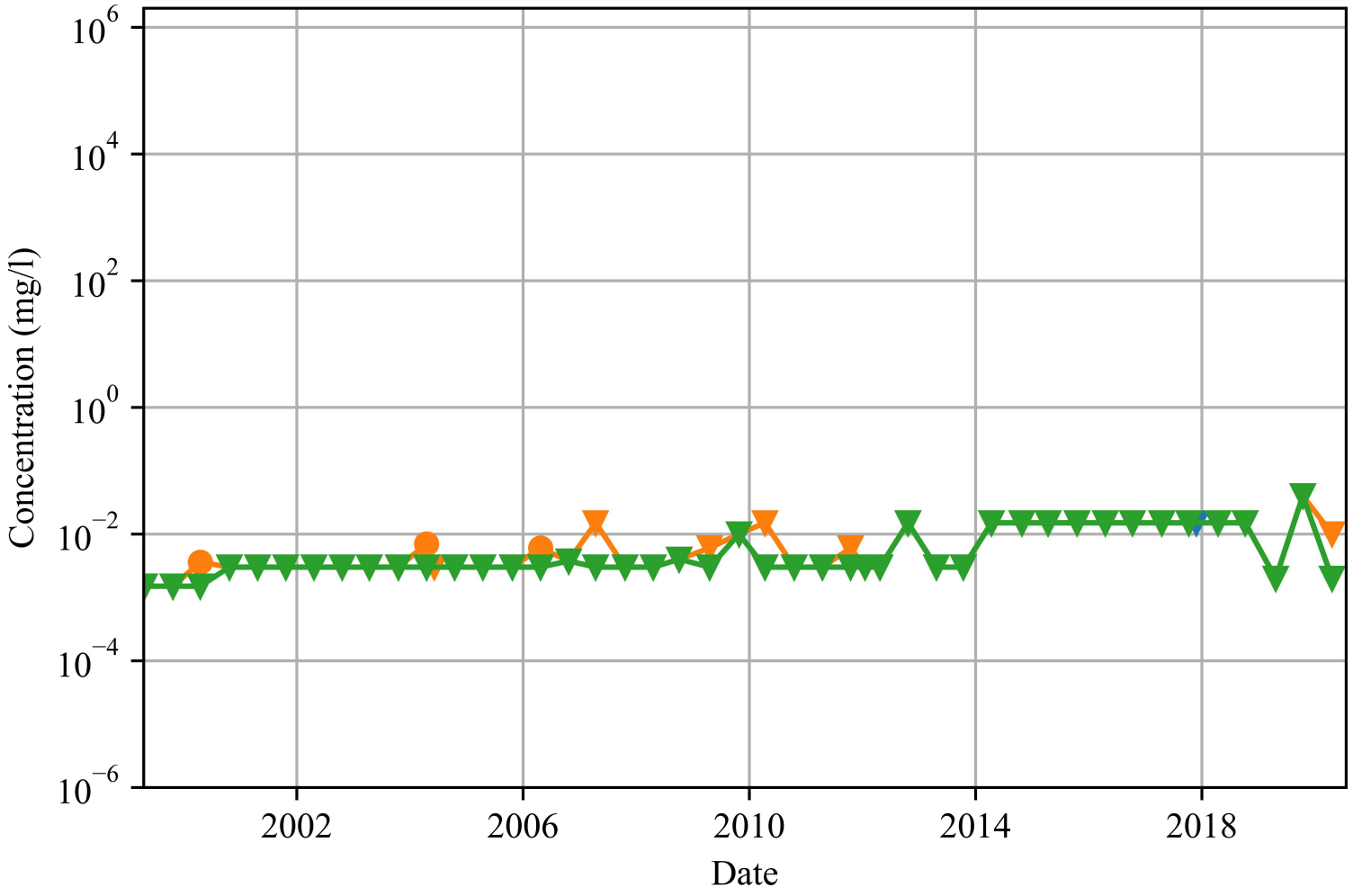
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-107:
Concentration vs. Time
Cell 11/WMA #1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

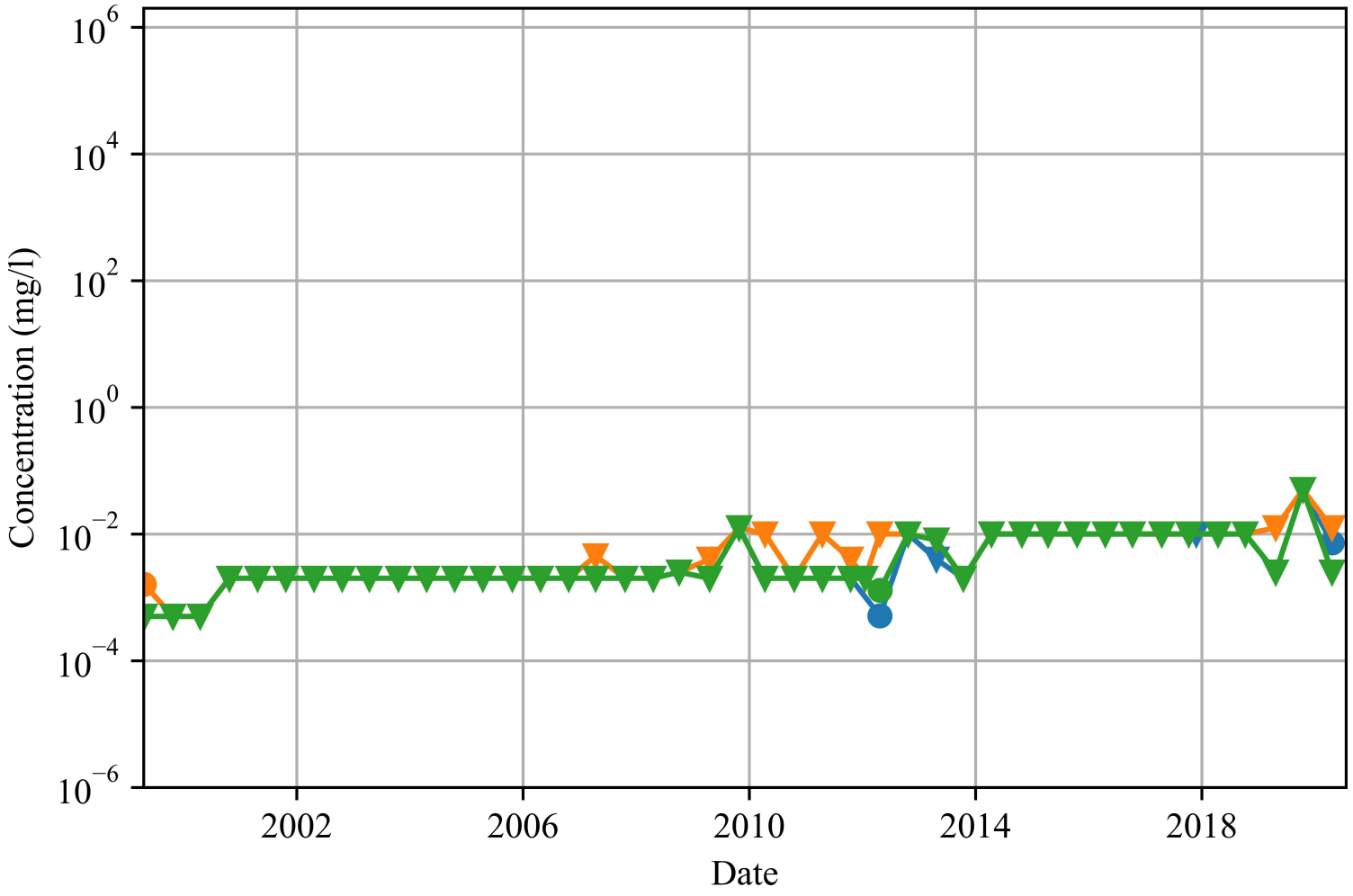
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-108:
Concentration vs. Time
Cell 11/WMA #1
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

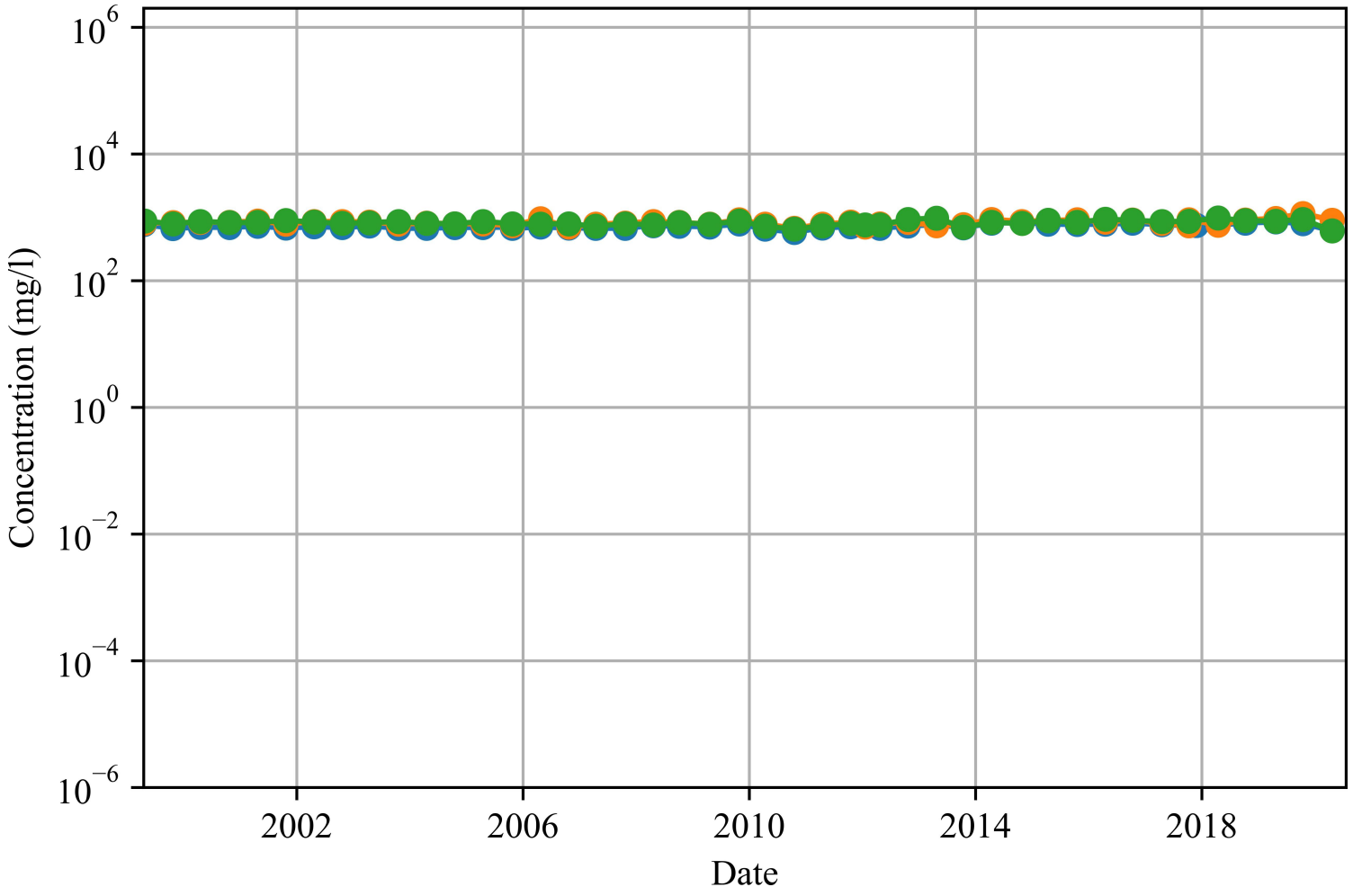
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-109:
Concentration vs. Time
Cell 11/WMA #1
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

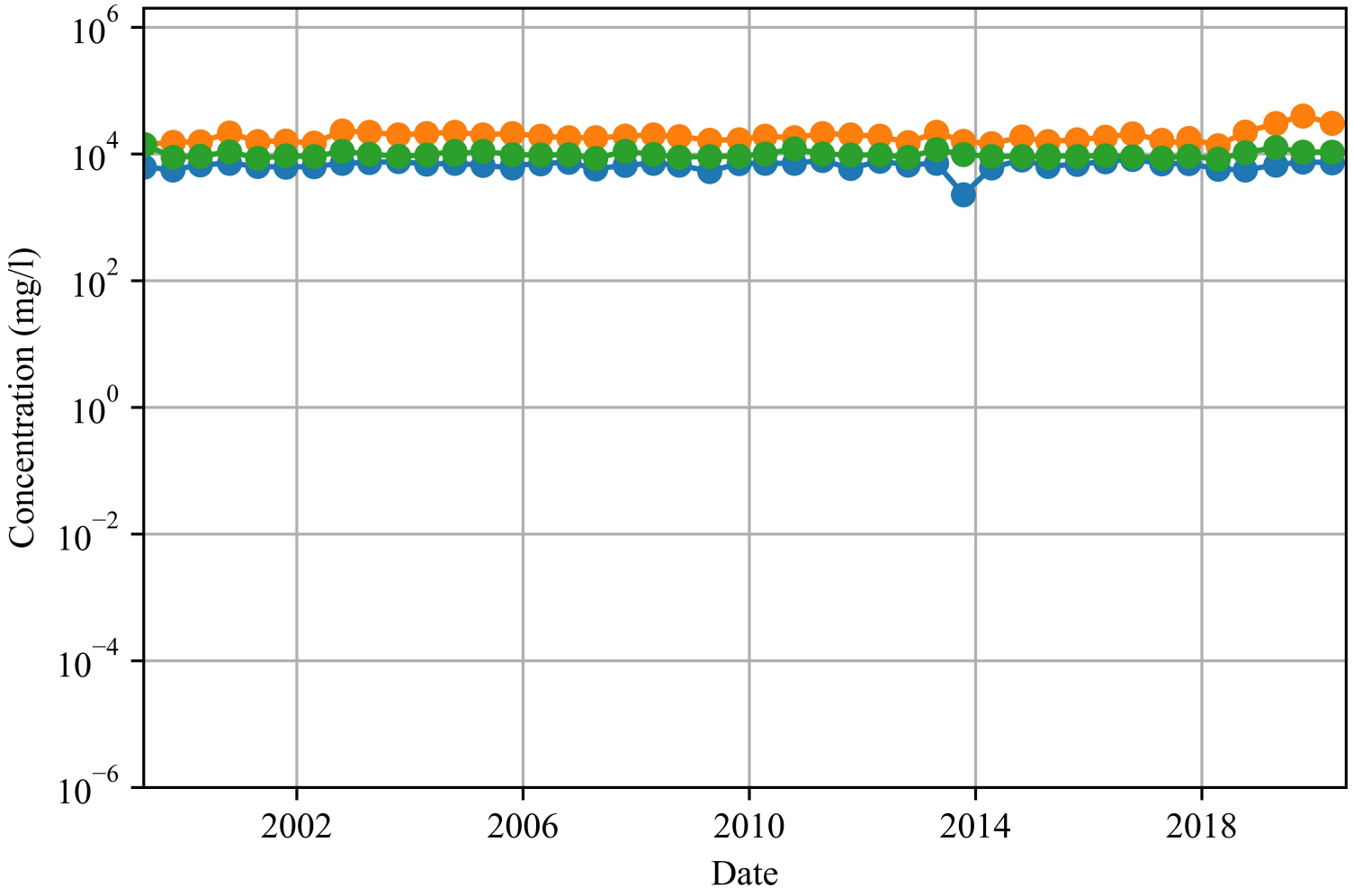
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-110:
Concentration vs. Time
Cell 11/WMA #1
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

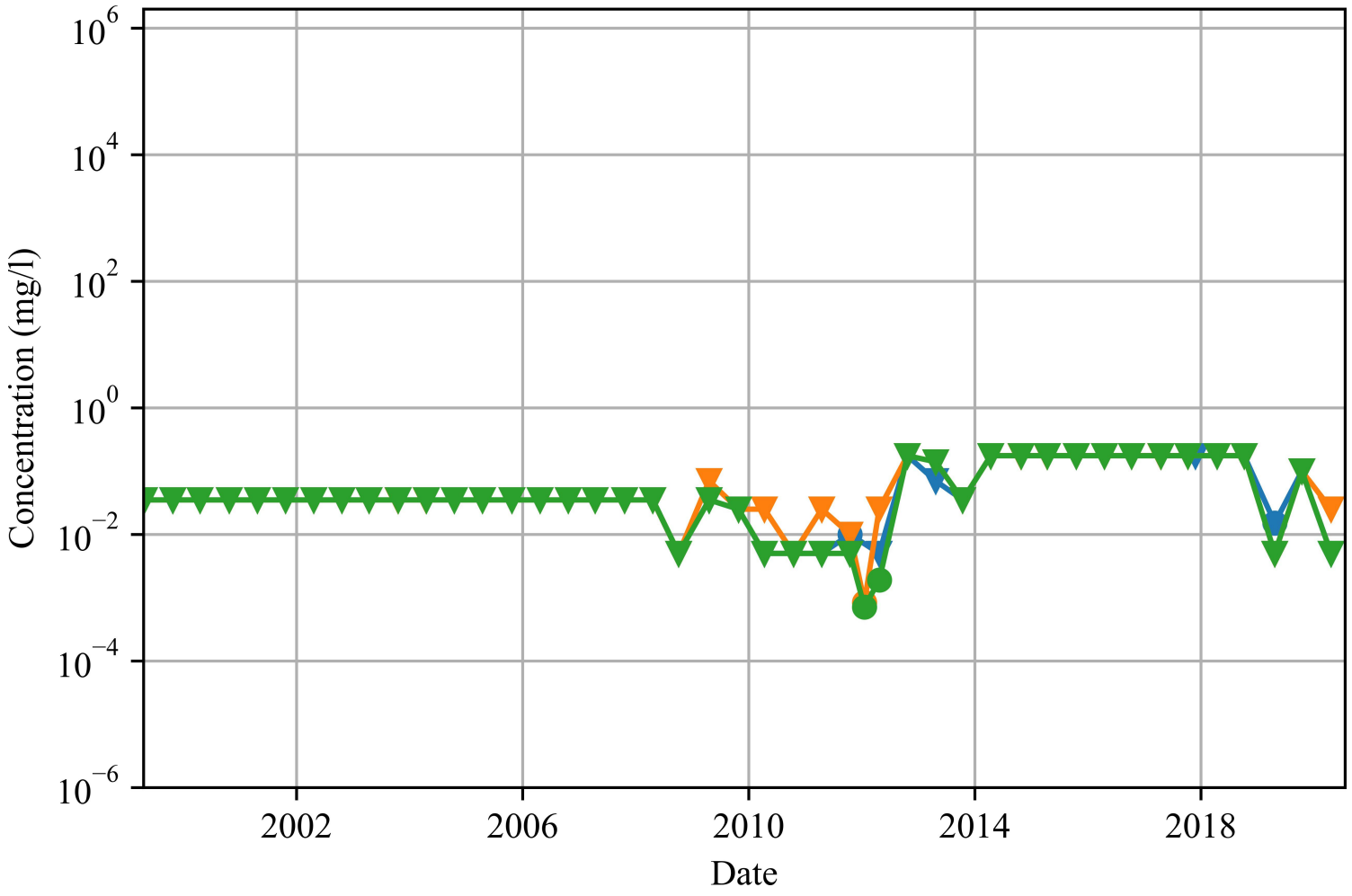
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-111:
Concentration vs. Time
Cell 11/WMA #1
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

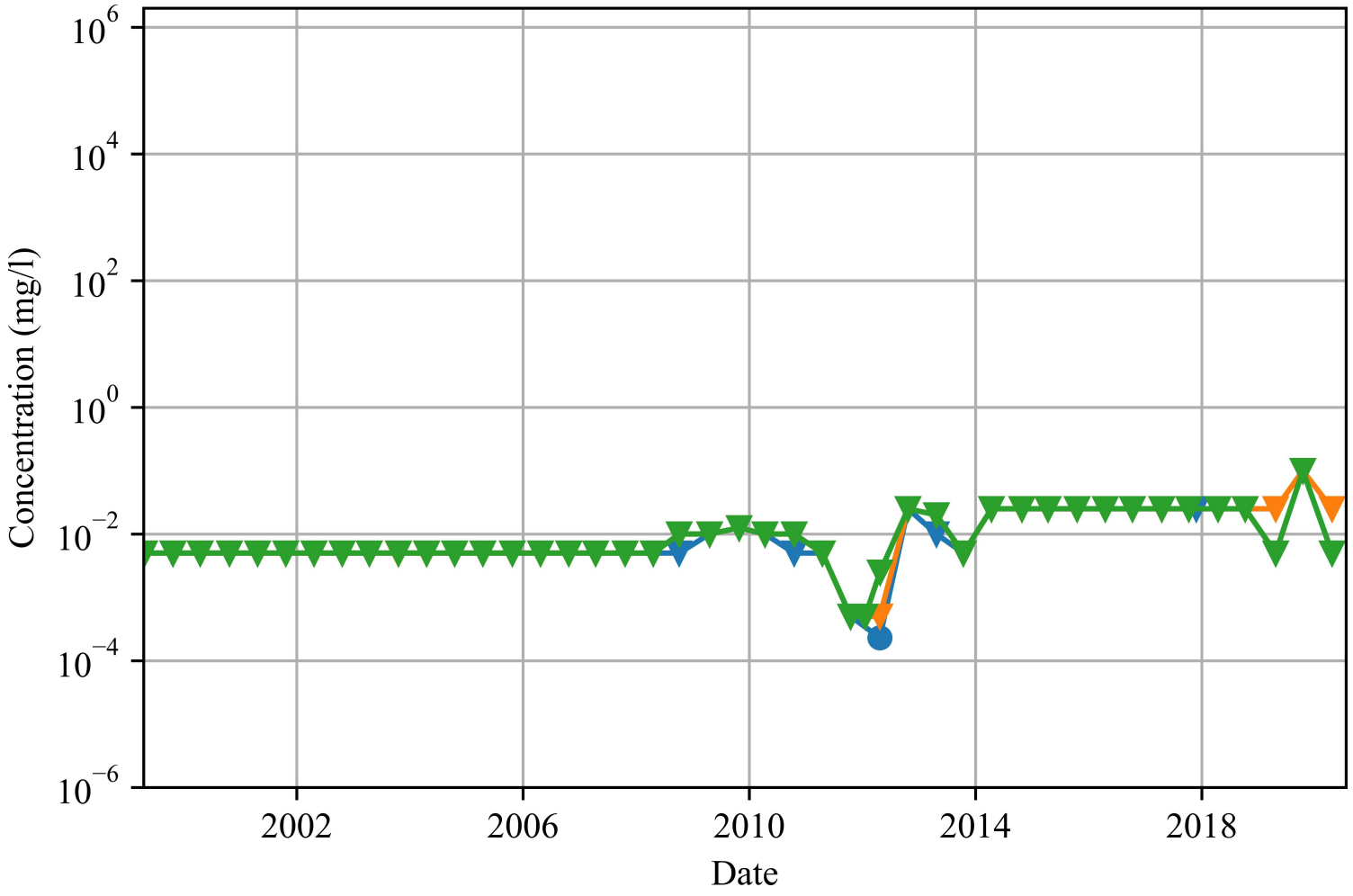
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-112:
Concentration vs. Time
Cell 11/WMA #1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

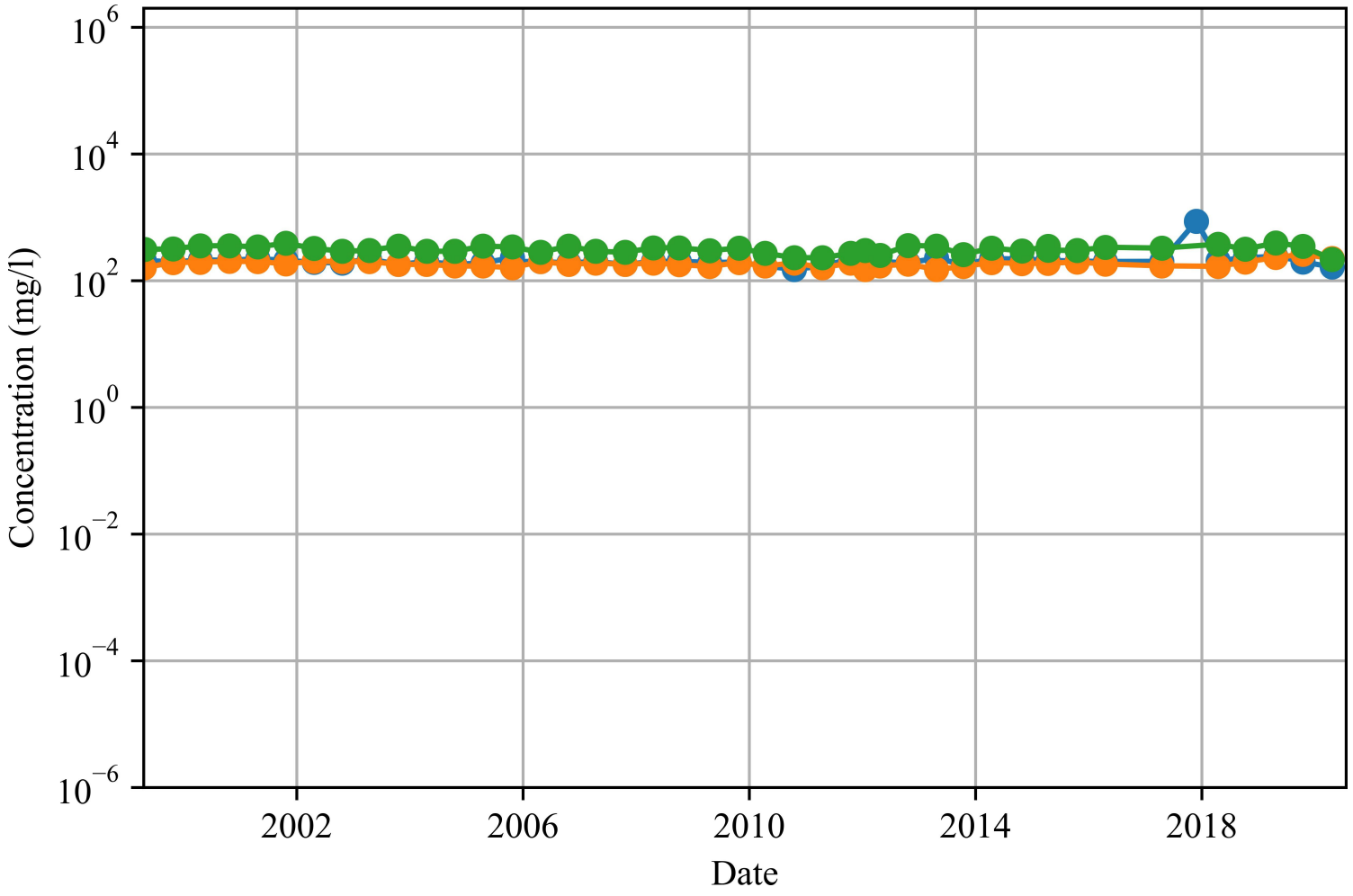
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-113:
Concentration vs. Time
Cell 11/WMA #1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

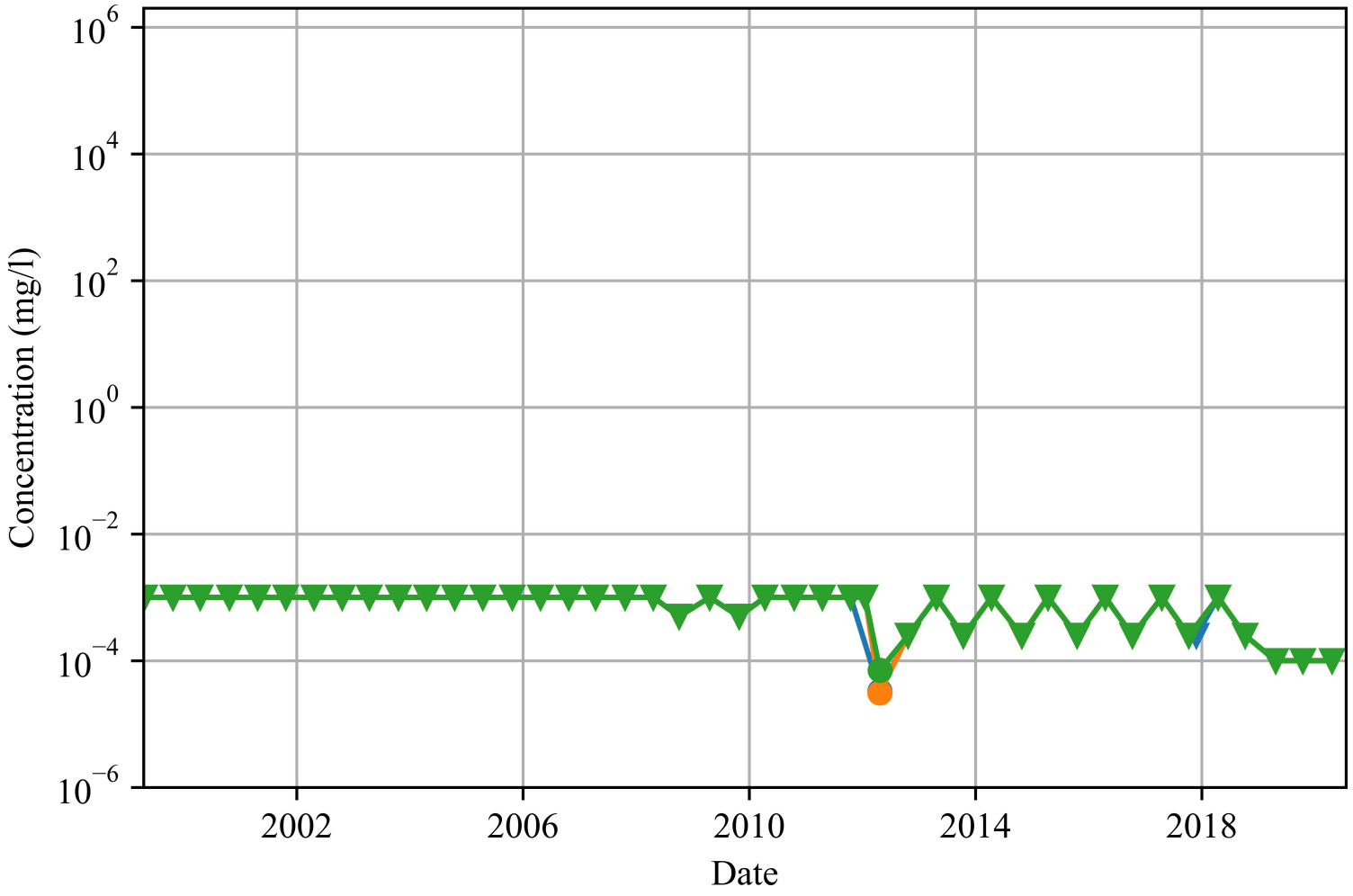
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-114:
Concentration vs. Time
Cell 11/WMA #1
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

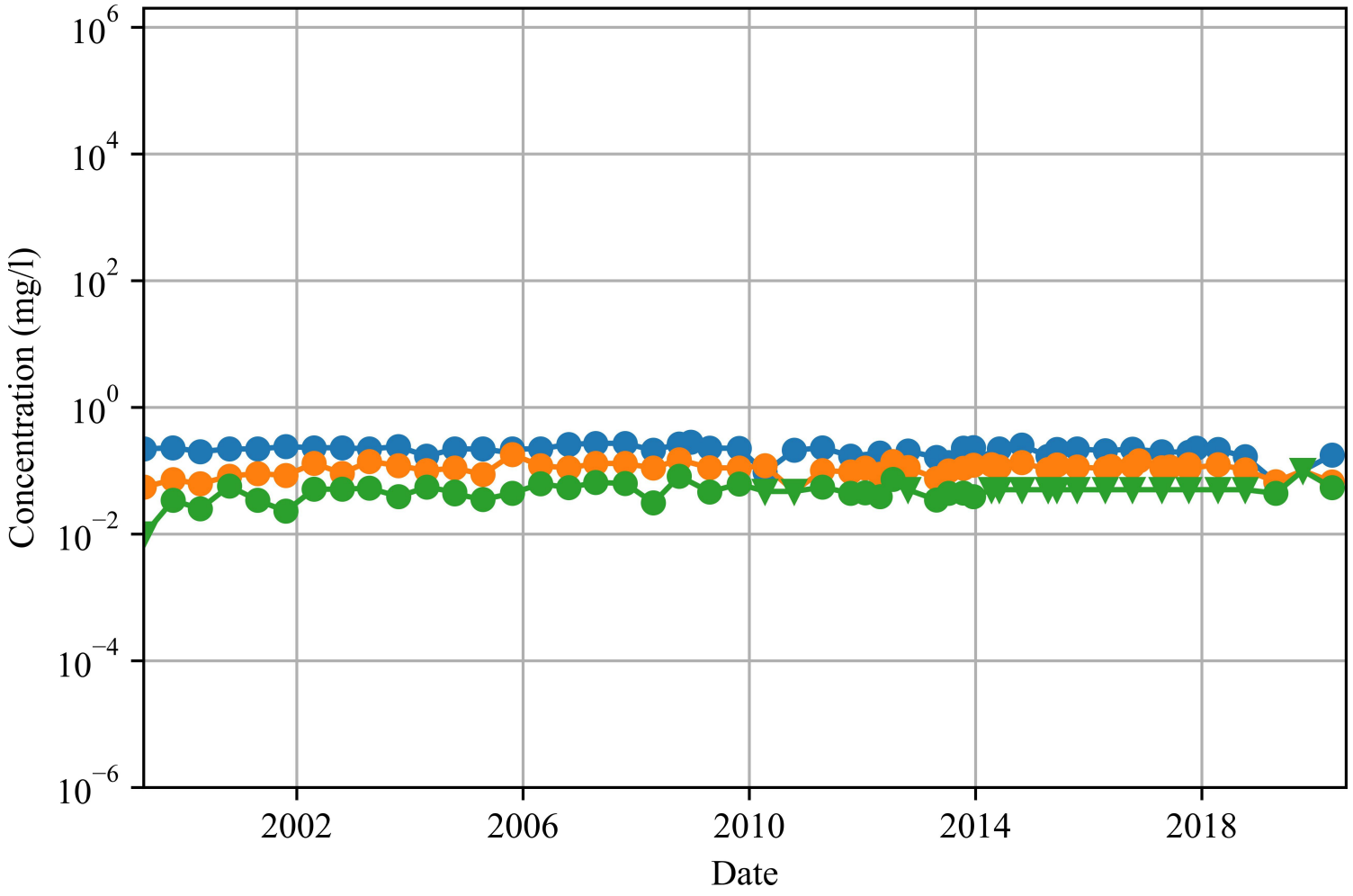
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-115:
Concentration vs. Time
Cell 11/WMA #1
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

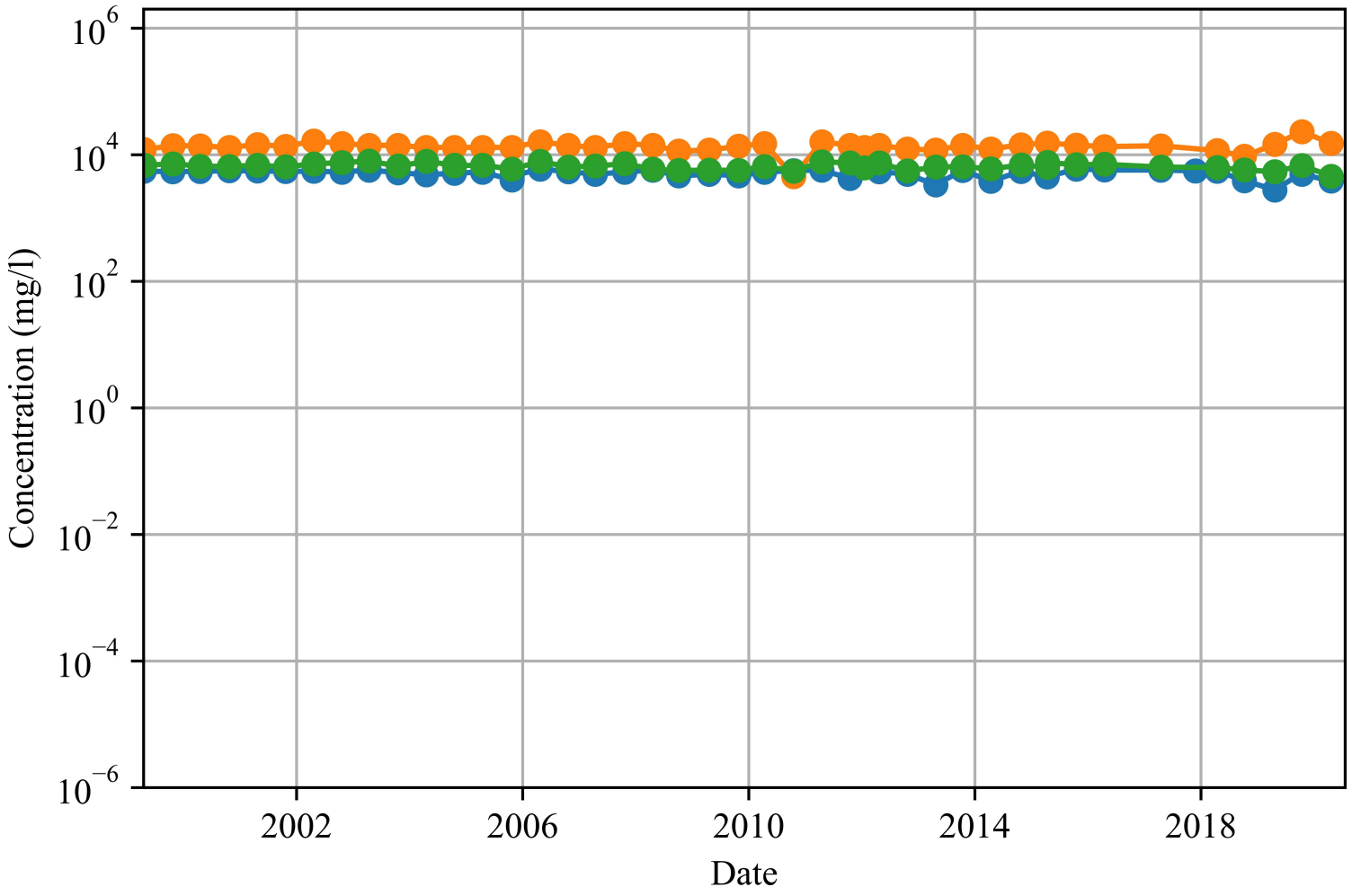
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-116:
Concentration vs. Time
Cell 11/WMA #1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

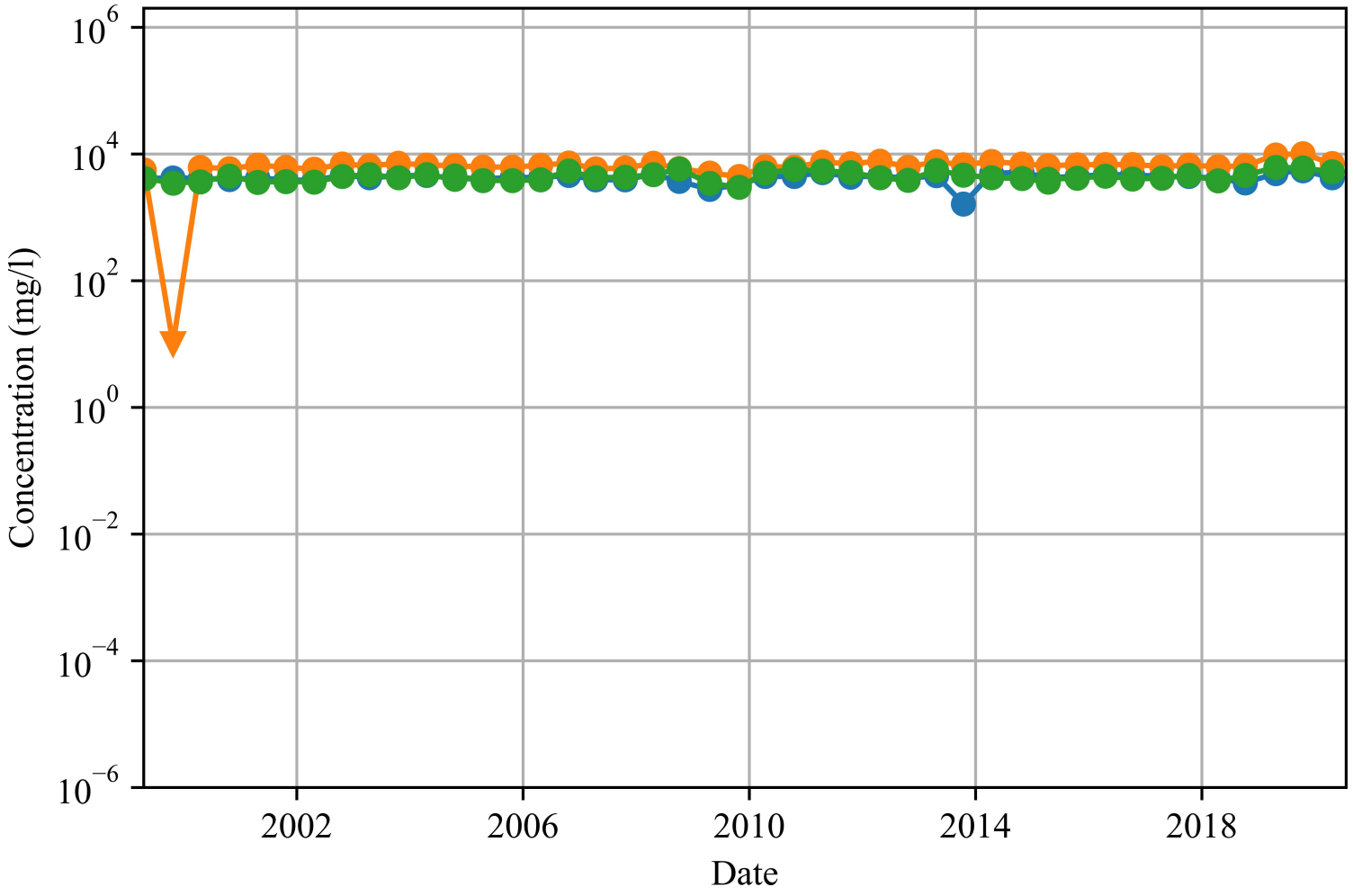
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-117:
Concentration vs. Time
Cell 11/WMA #1
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 11A2
- MW 11A4
- MW 11A5
- Detect
- Non-detect

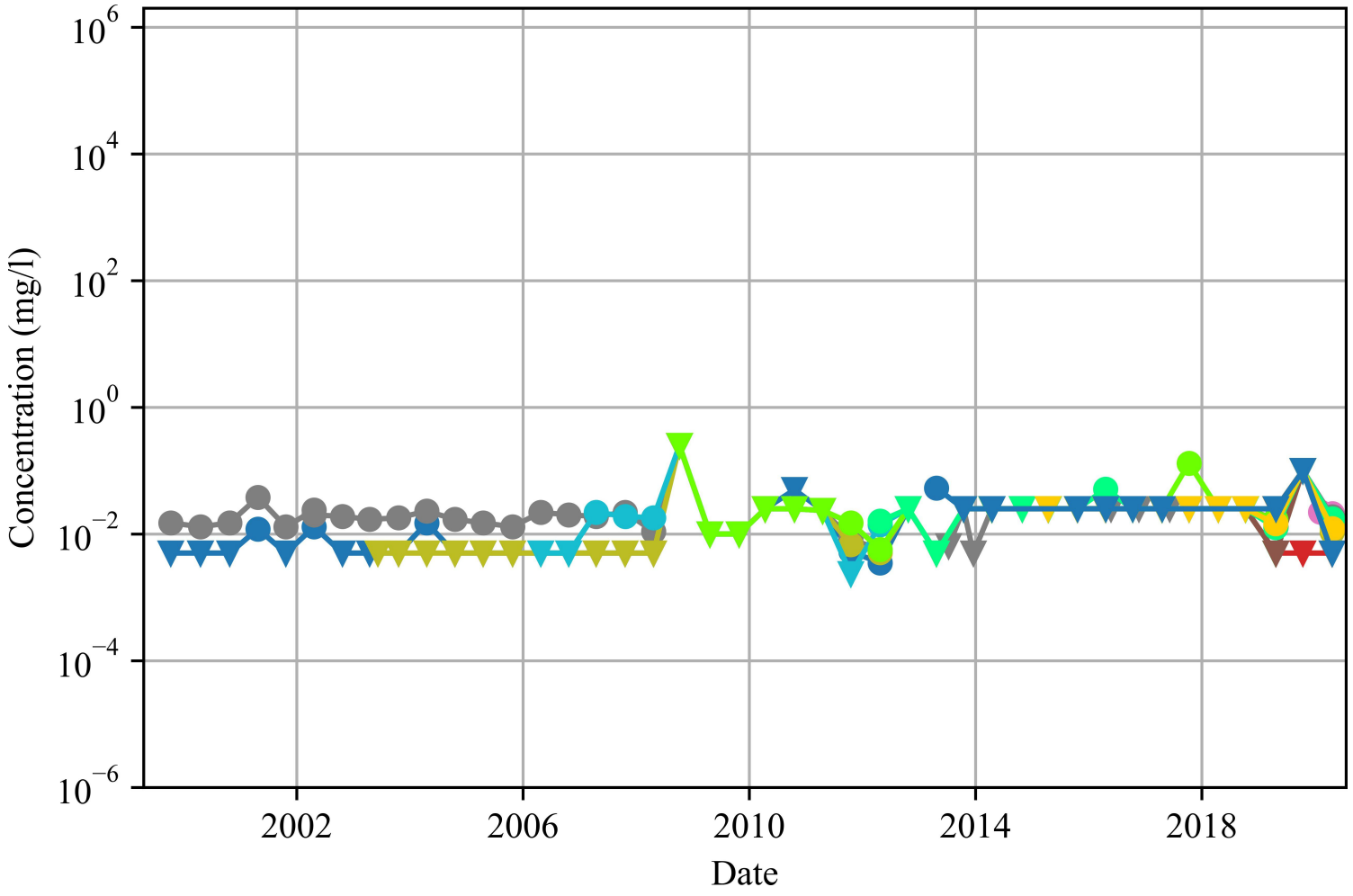
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-118:
Concentration vs. Time
Cell 11/WMA #1
Sulfate

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

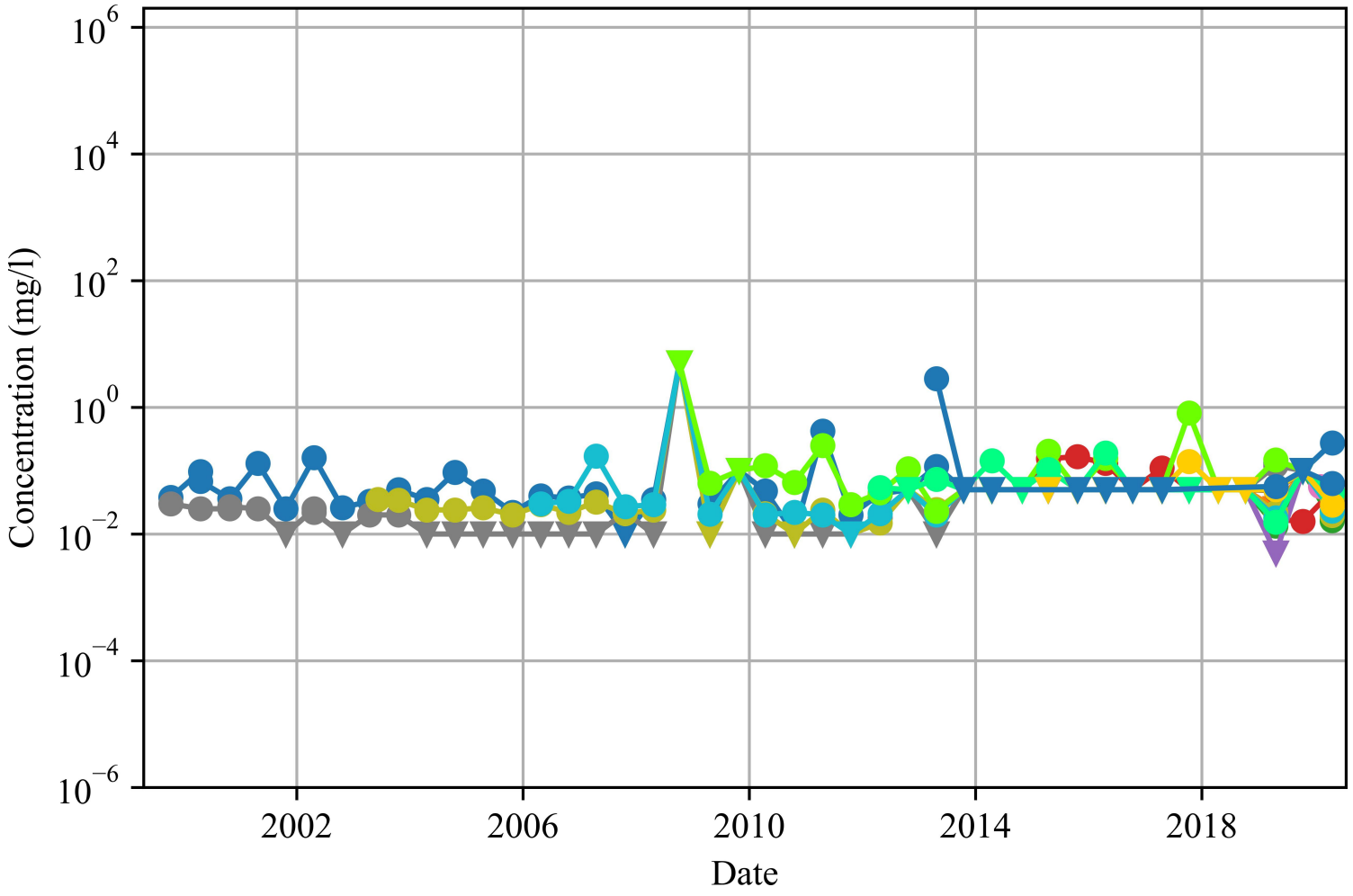
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-119:
Concentration vs. Time
Cell 15/WMA #7
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

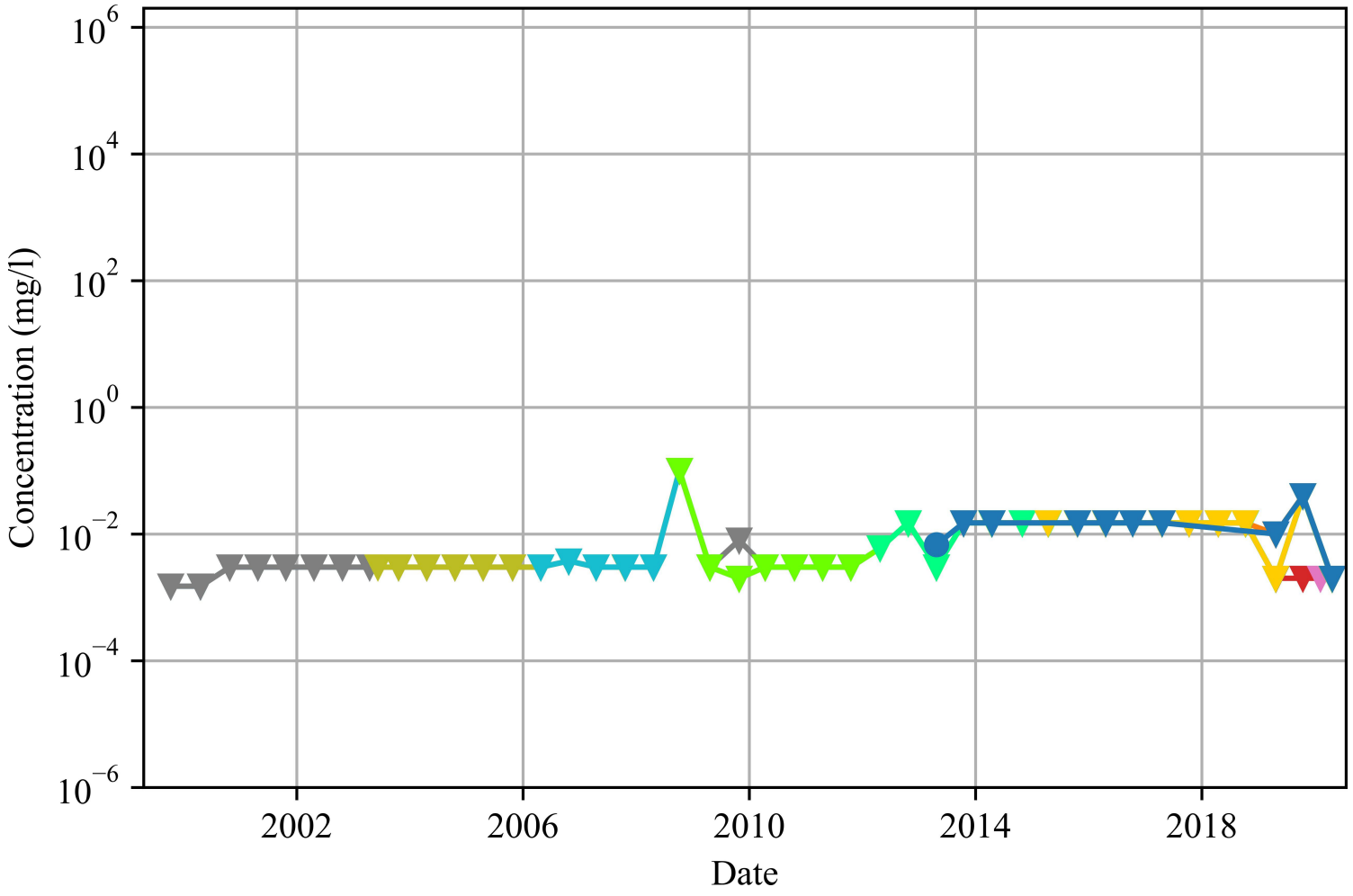
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-120:
Concentration vs. Time
Cell 15/WMA #7
Barium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

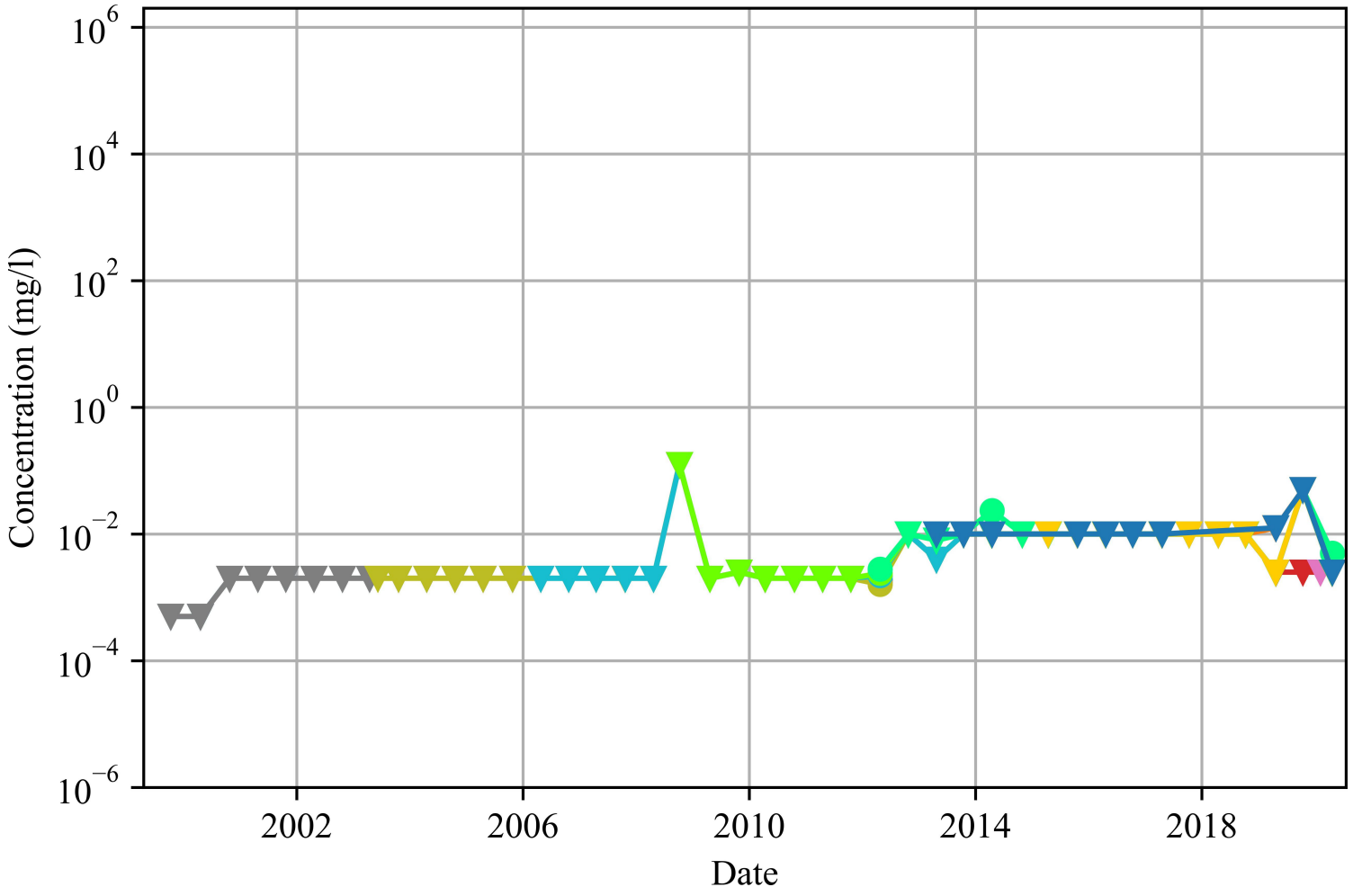
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-121:
Concentration vs. Time
Cell 15/WMA #7
Beryllium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

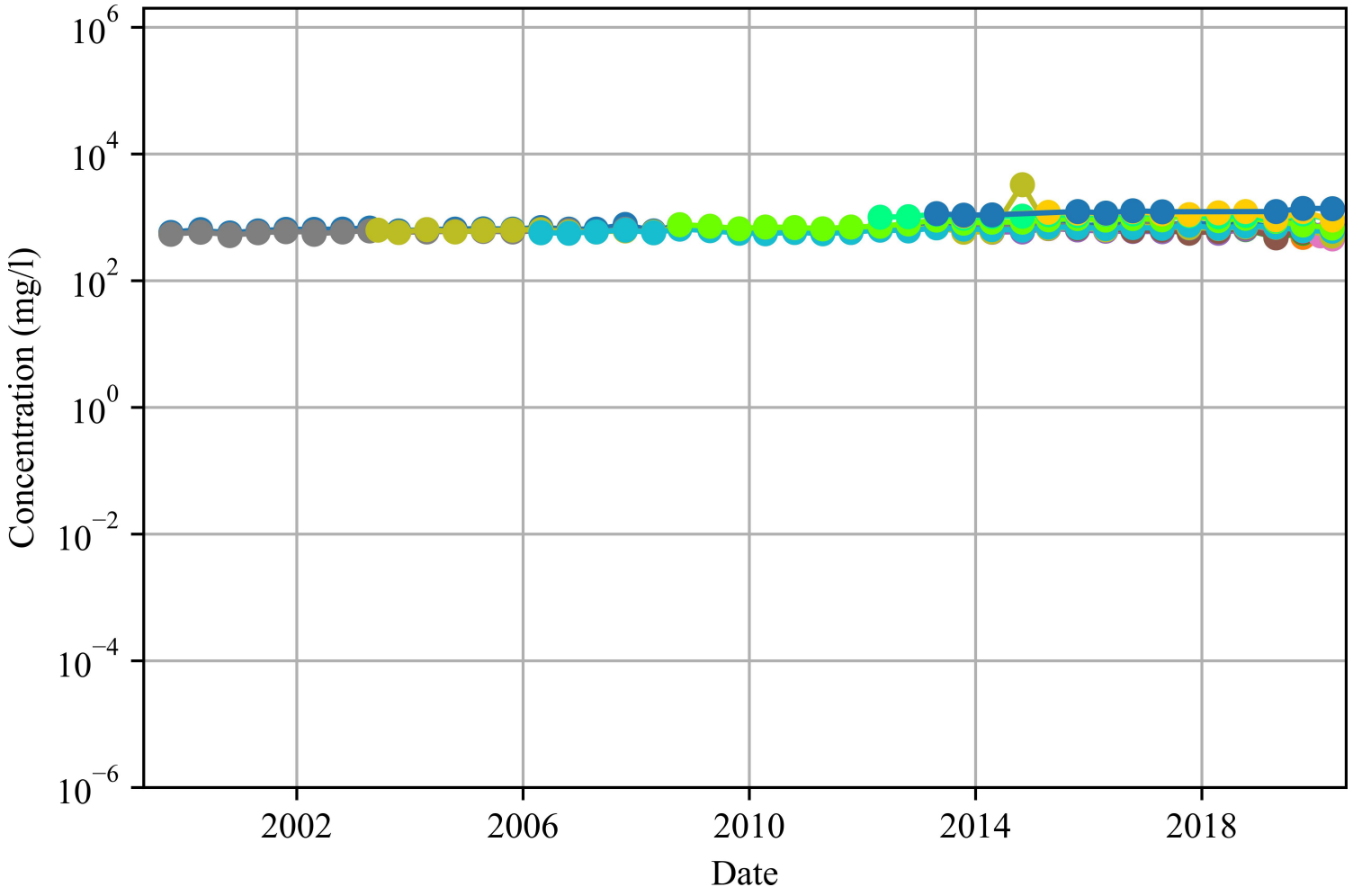
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-122:
Concentration vs. Time
Cell 15/WMA #7
Cadmium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

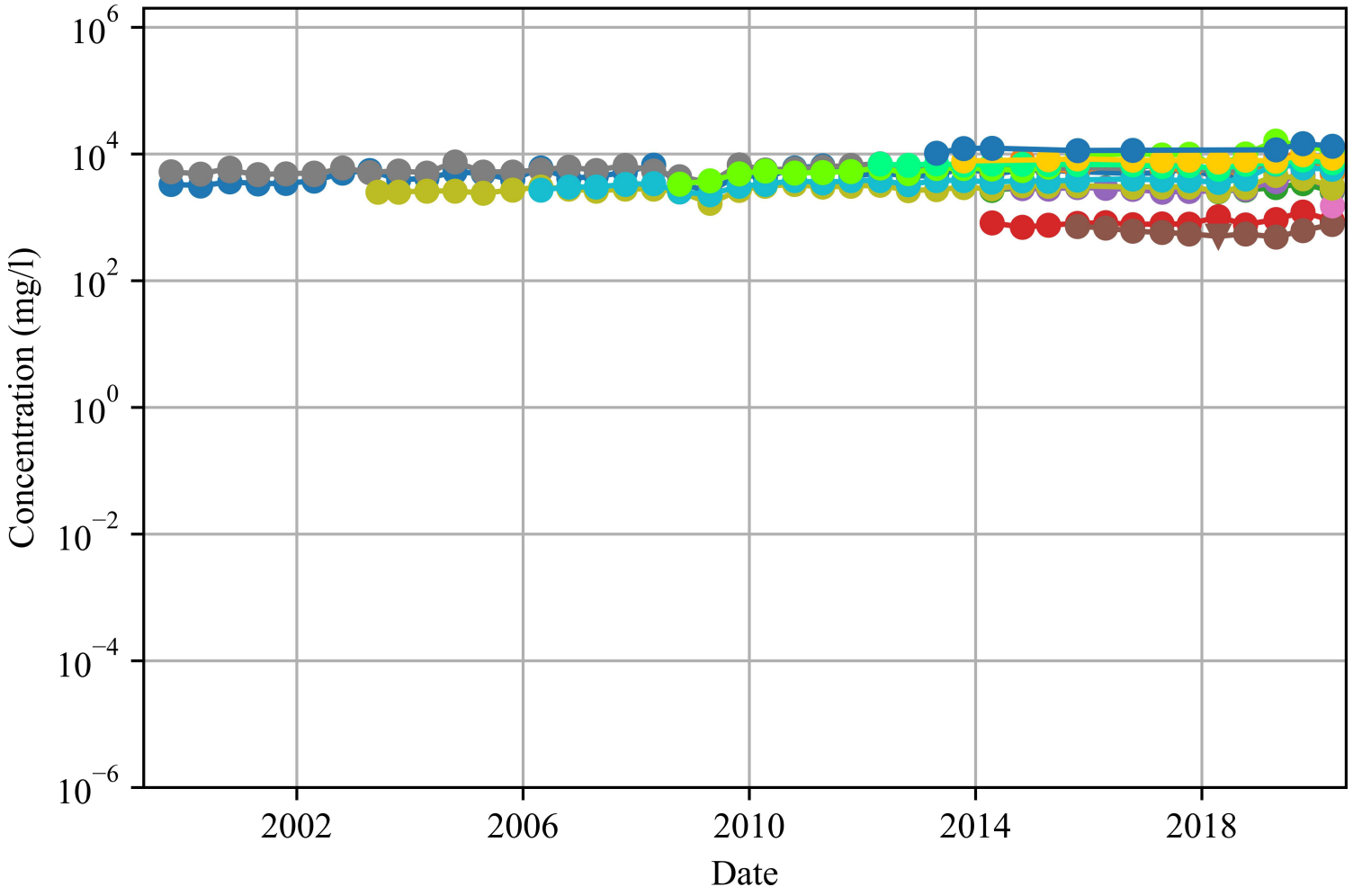
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-123:
Concentration vs. Time
Cell 15/WMA #7
Calcium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

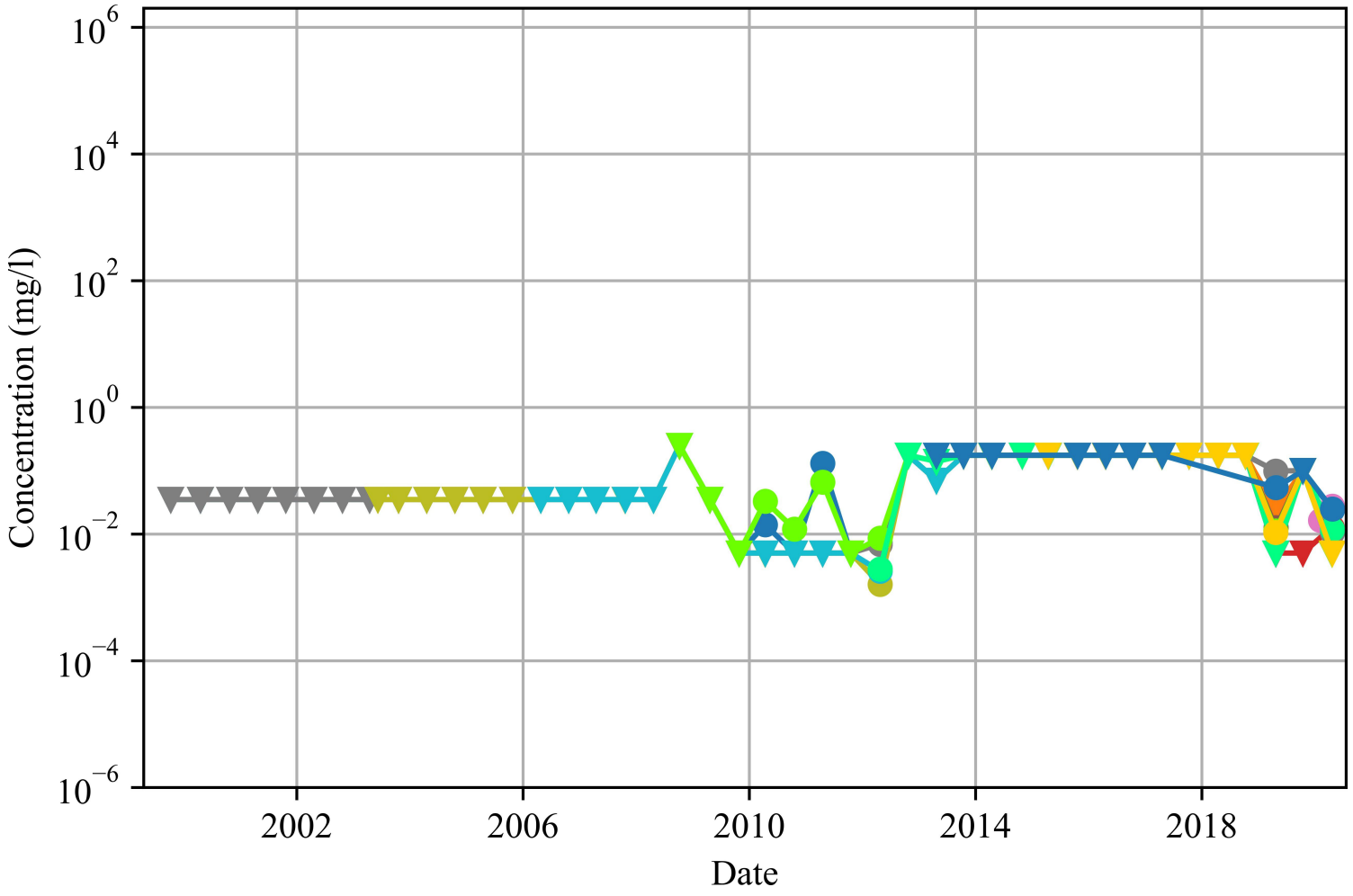
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-124:
Concentration vs. Time
Cell 15/WMA #7
Chloride (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

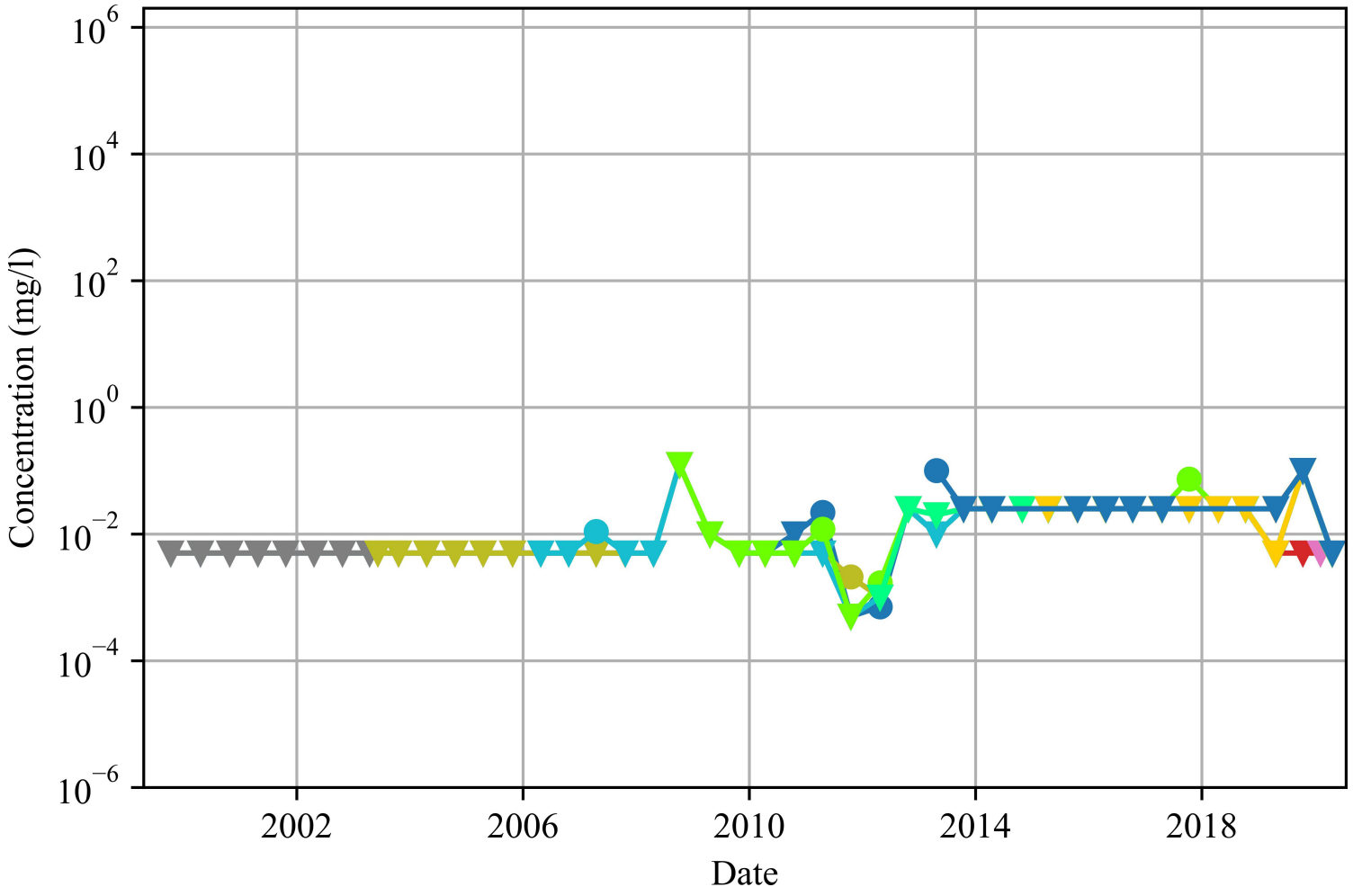
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-125:
Concentration vs. Time
Cell 15/WMA #7
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

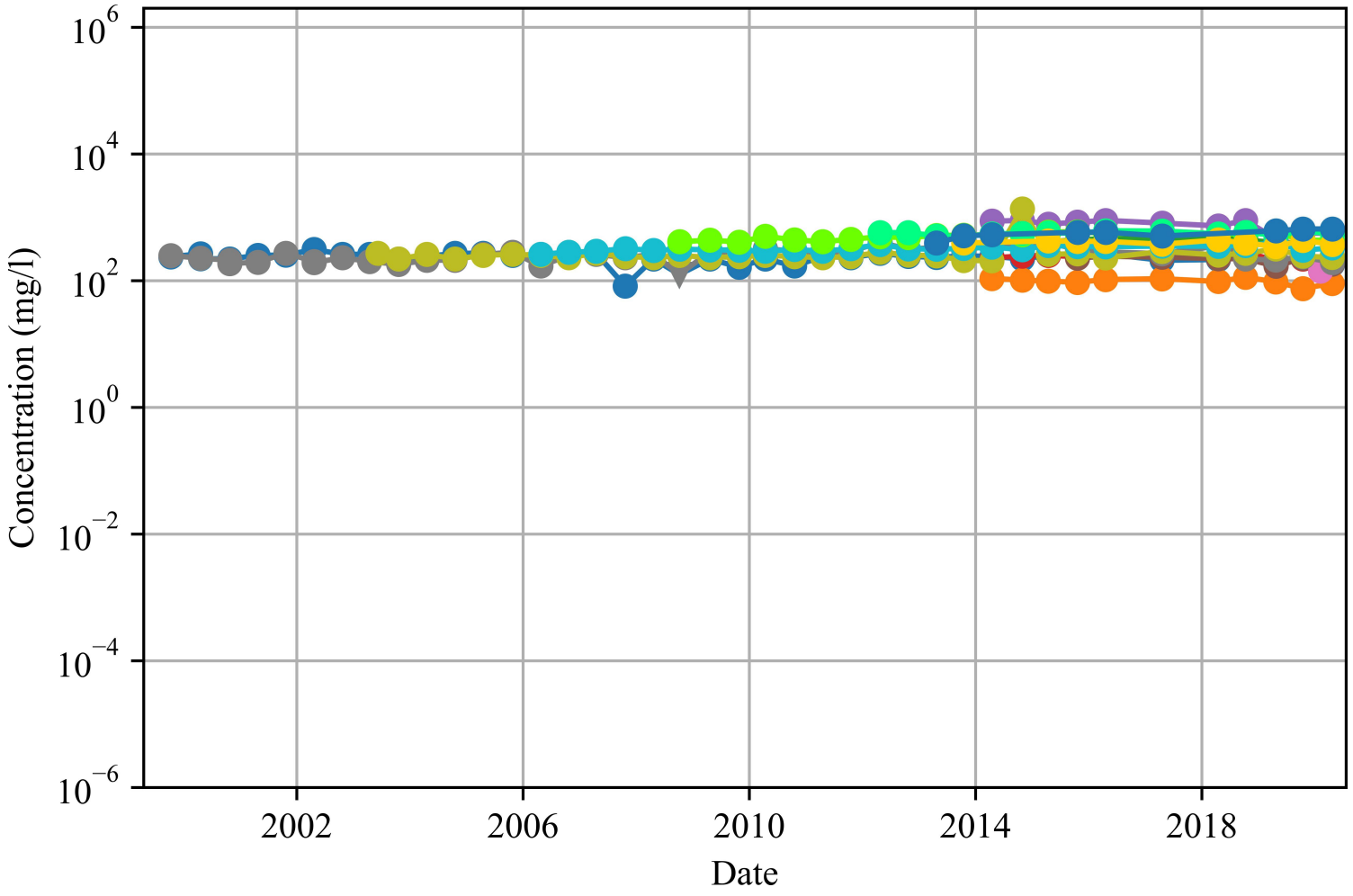
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-126:
Concentration vs. Time
Cell 15/WMA #7
Lead (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

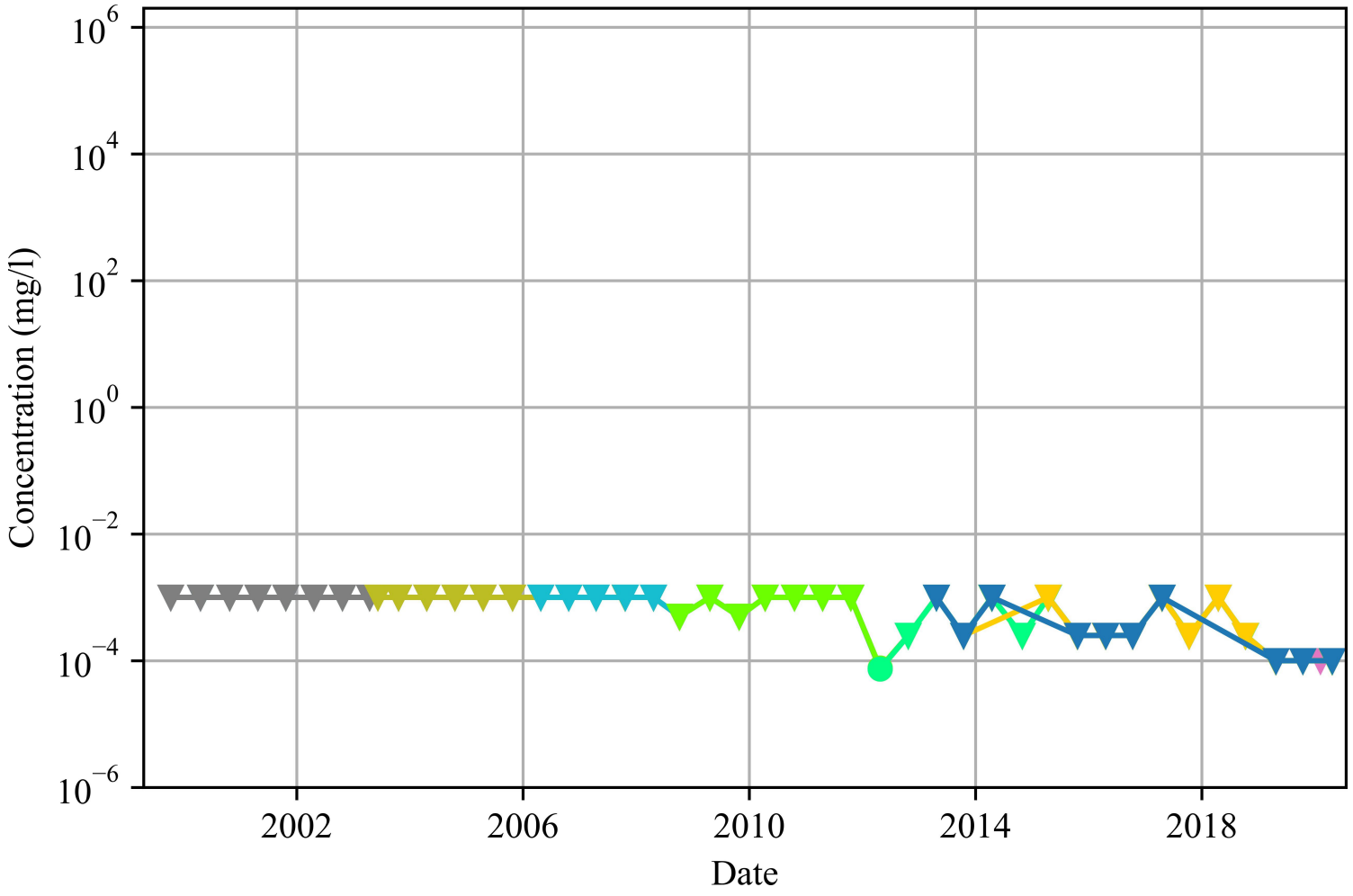
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-127:
Concentration vs. Time
Cell 15/WMA #7
Magnesium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

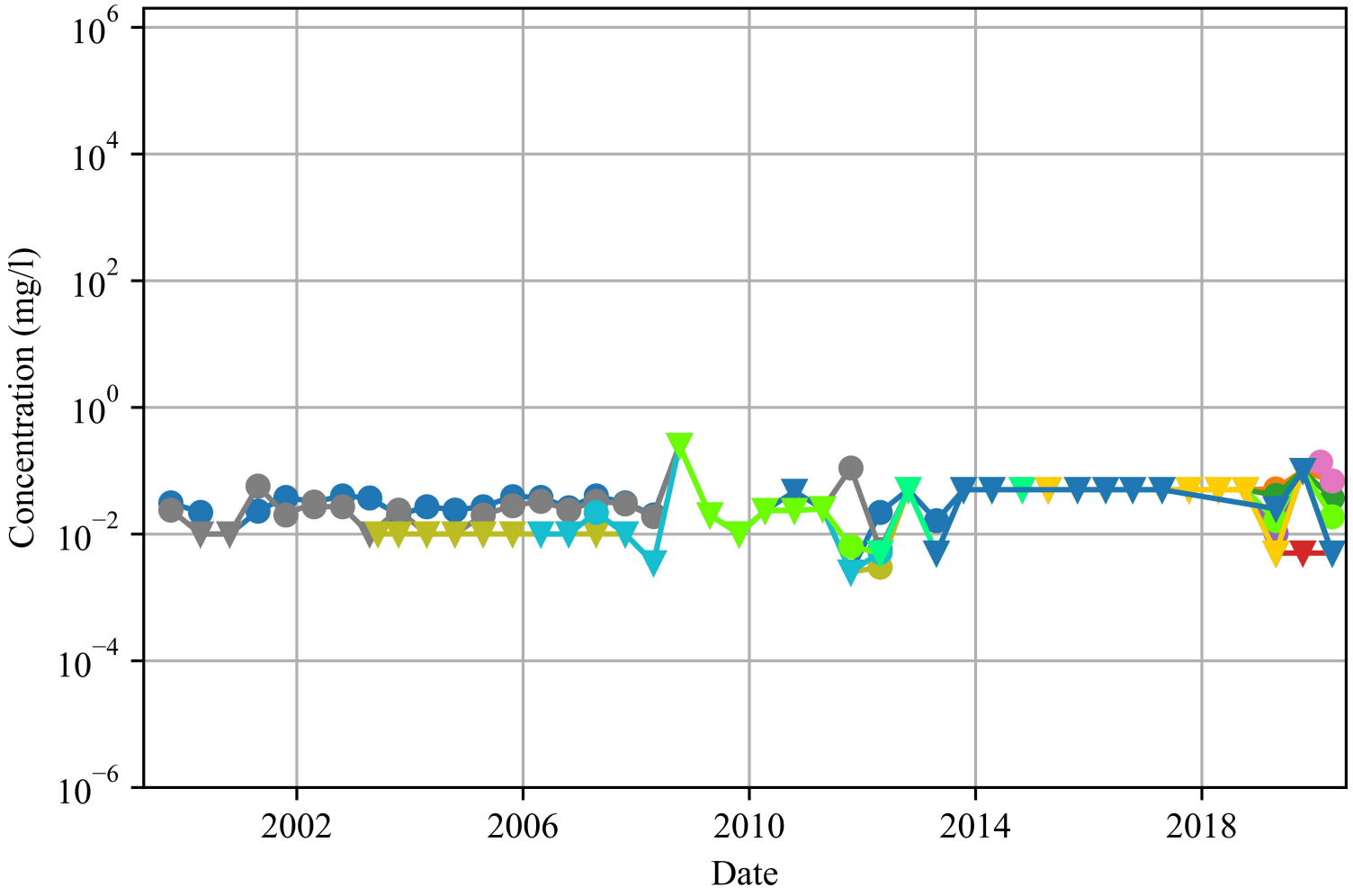
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-128:
Concentration vs. Time
Cell 15/WMA #7
Mercury (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

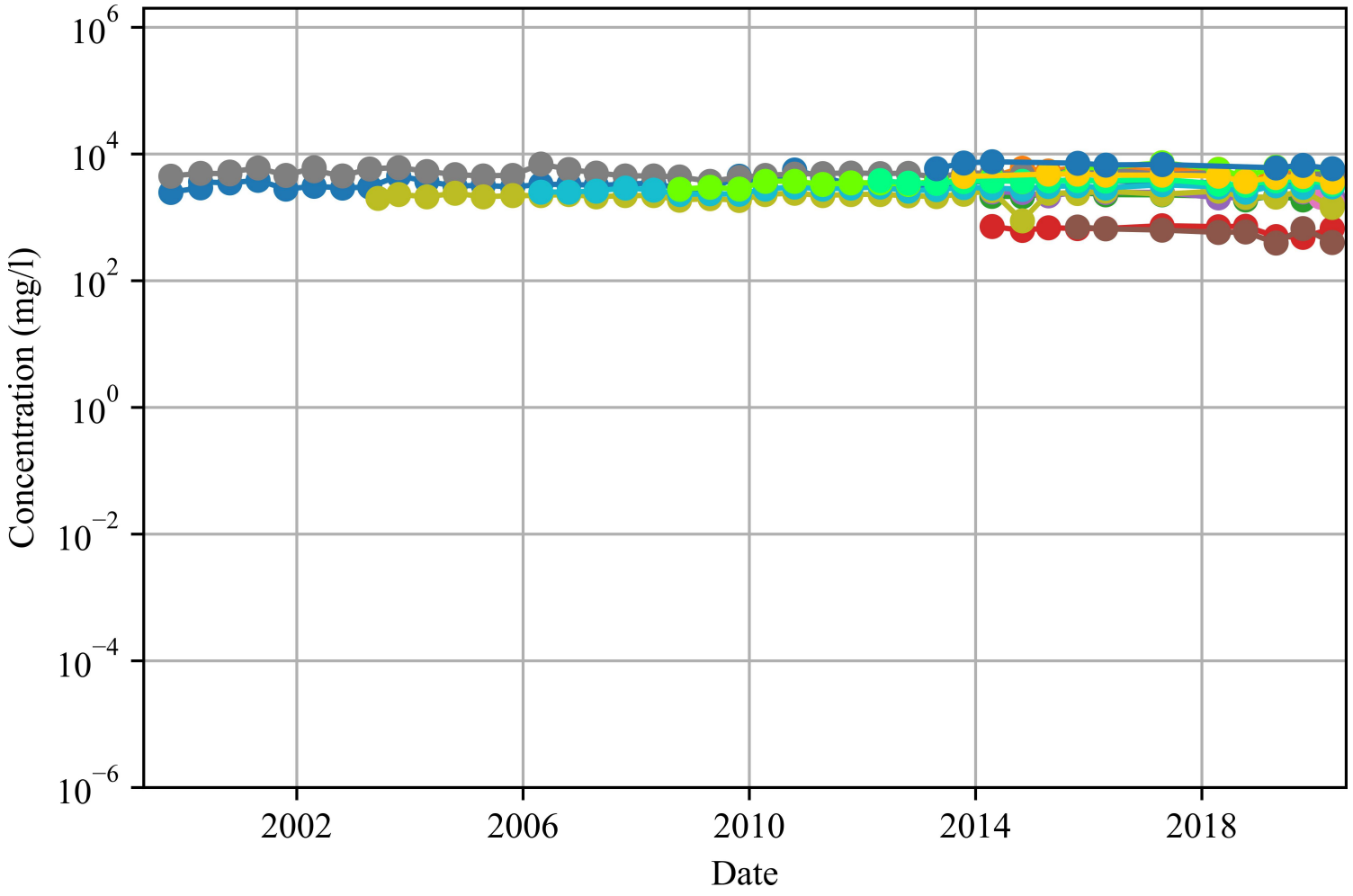
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-129:
Concentration vs. Time
Cell 15/WMA #7
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

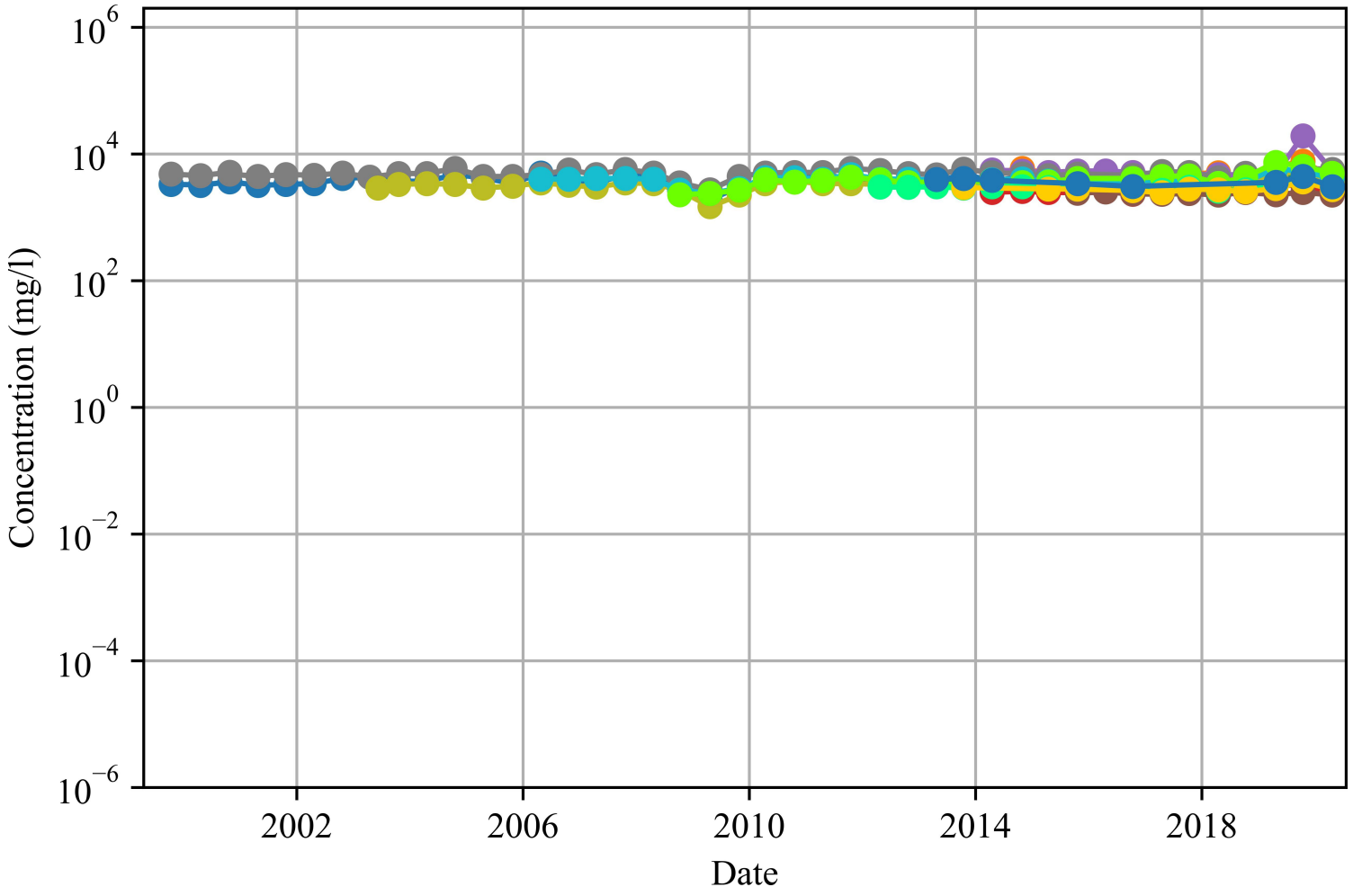
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-130:
Concentration vs. Time
Cell 15/WMA #7
Sodium (Total)

Drawn By: LA CC
Generator
2020-09-04

Leppert Associates



Legend

- MW 15A1
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A14
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5
- MW 15A6
- MW 15A7
- MW 15A8
- Detect
- Non-detect

mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.15-131:
Concentration vs. Time
Cell 15/WMA #7
Sulfate

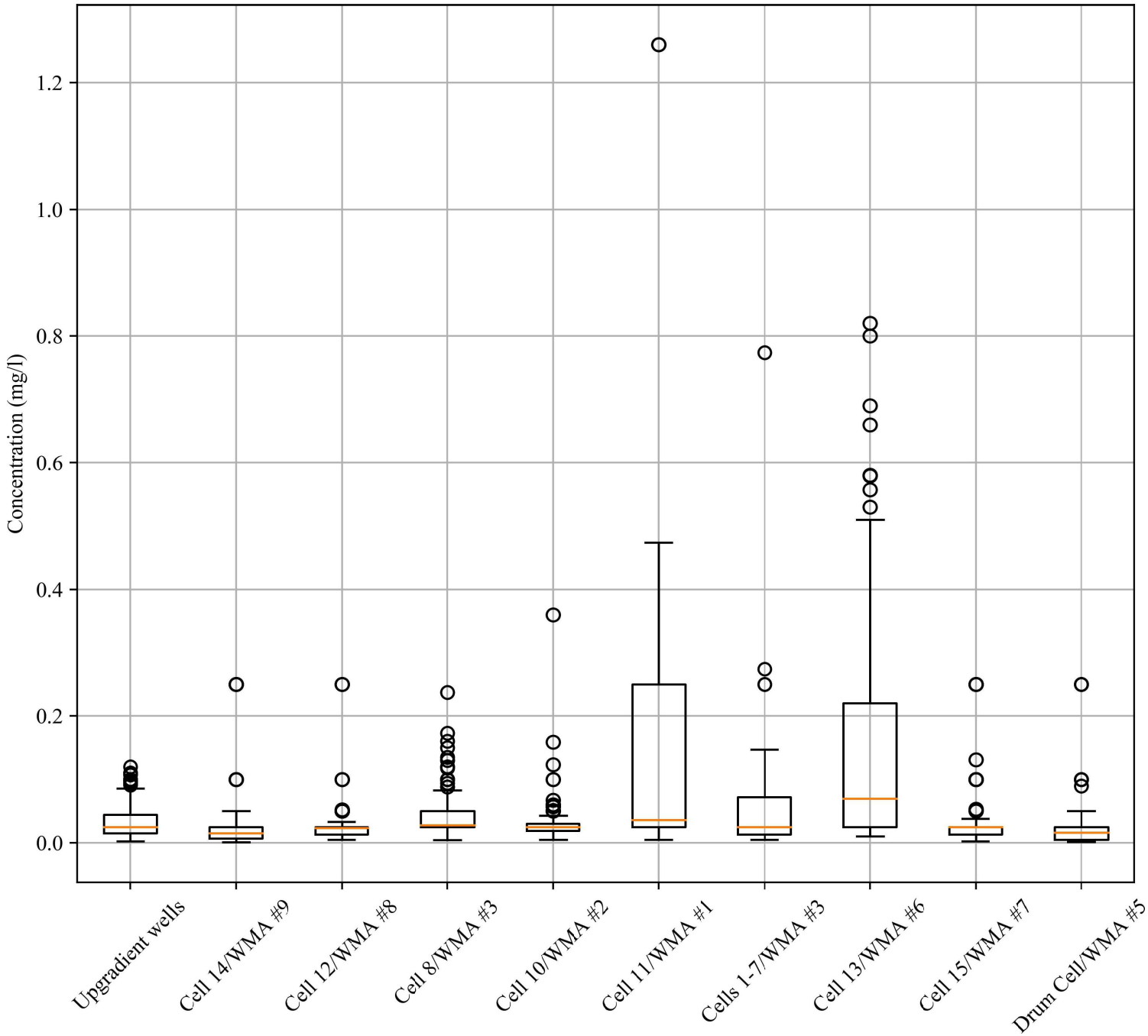
Drawn By: LA CC
Generator
2020-09-04

Leppert Associates

APPENDIX 3.16

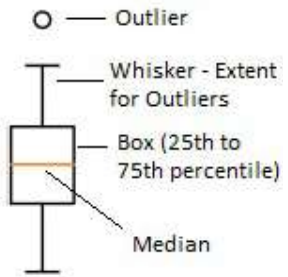
BOX AND WHISKERS DISTRIBUTION PLOTS

(AS, BA, CR, PB, SE, CA, CL, MG, NA, AND SO4)



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



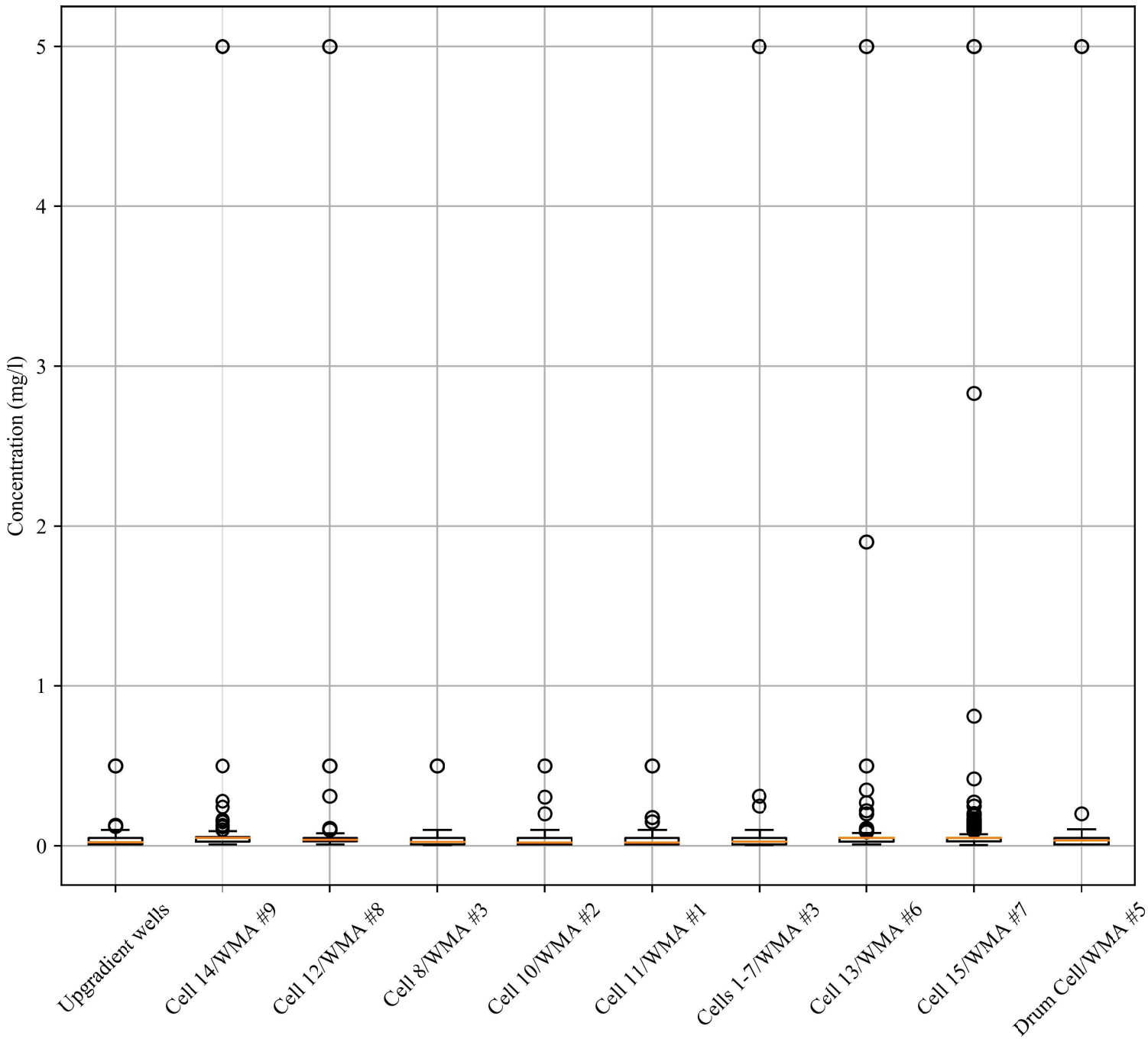
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-1: Box & Whisker Plots Arsenic (Total)

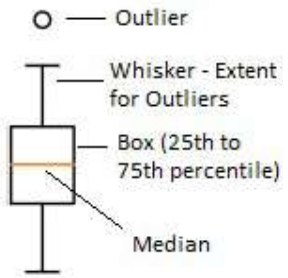
Drawn By: LA CC Generator 2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



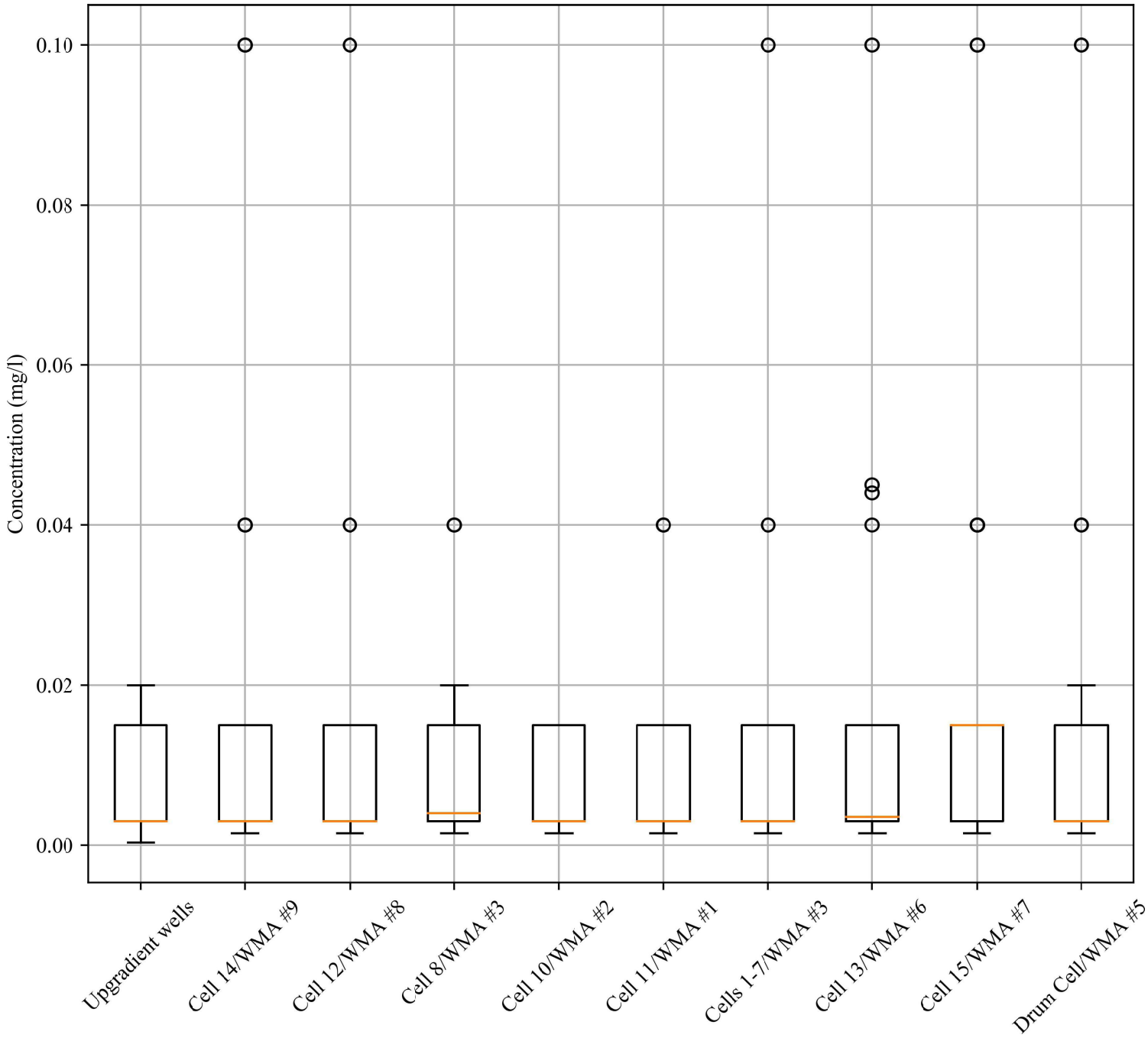
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-2: Box & Whisker Plots Barium (Total)

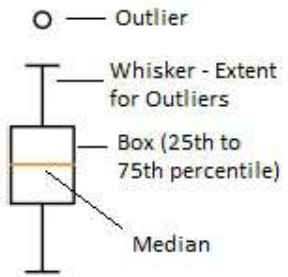
Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



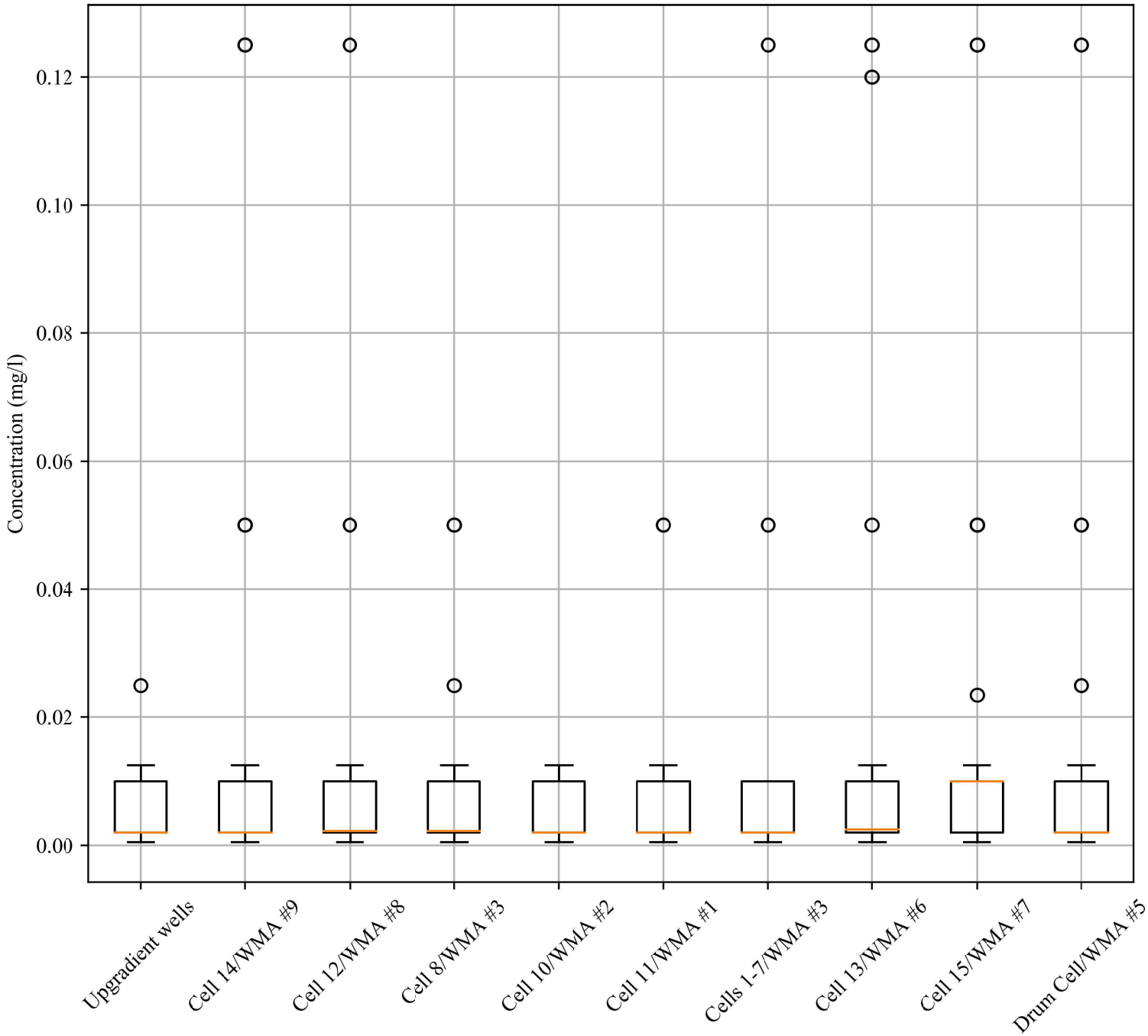
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.16-3:
Box & Whisker Plots
Beryllium (Total)

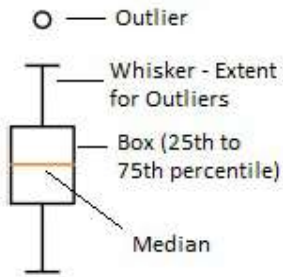
Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



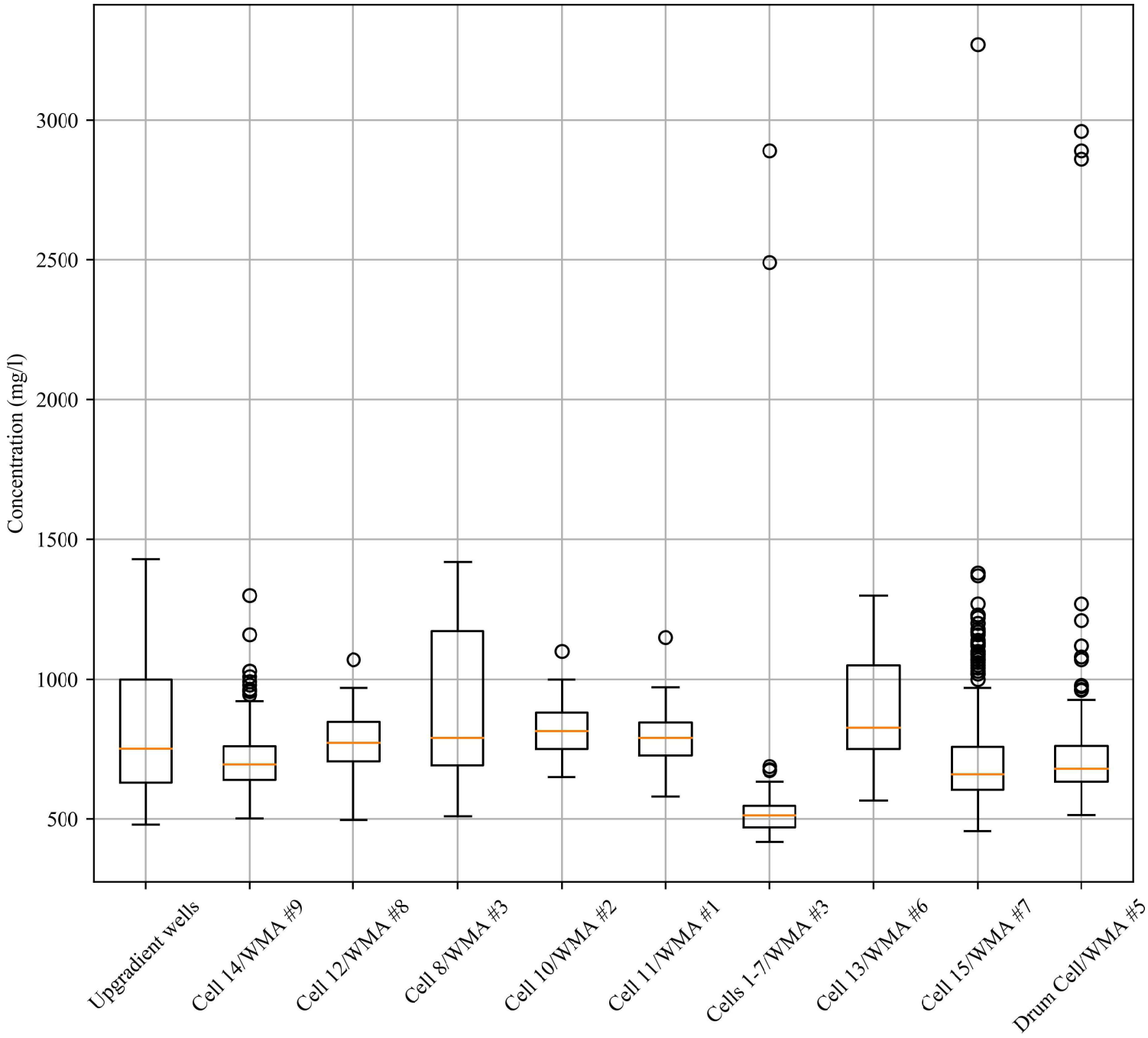
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-4: Box & Whisker Plots Cadmium (Total)

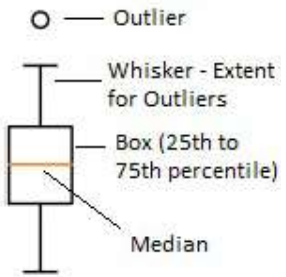
Drawn By: LA CC Generator 2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



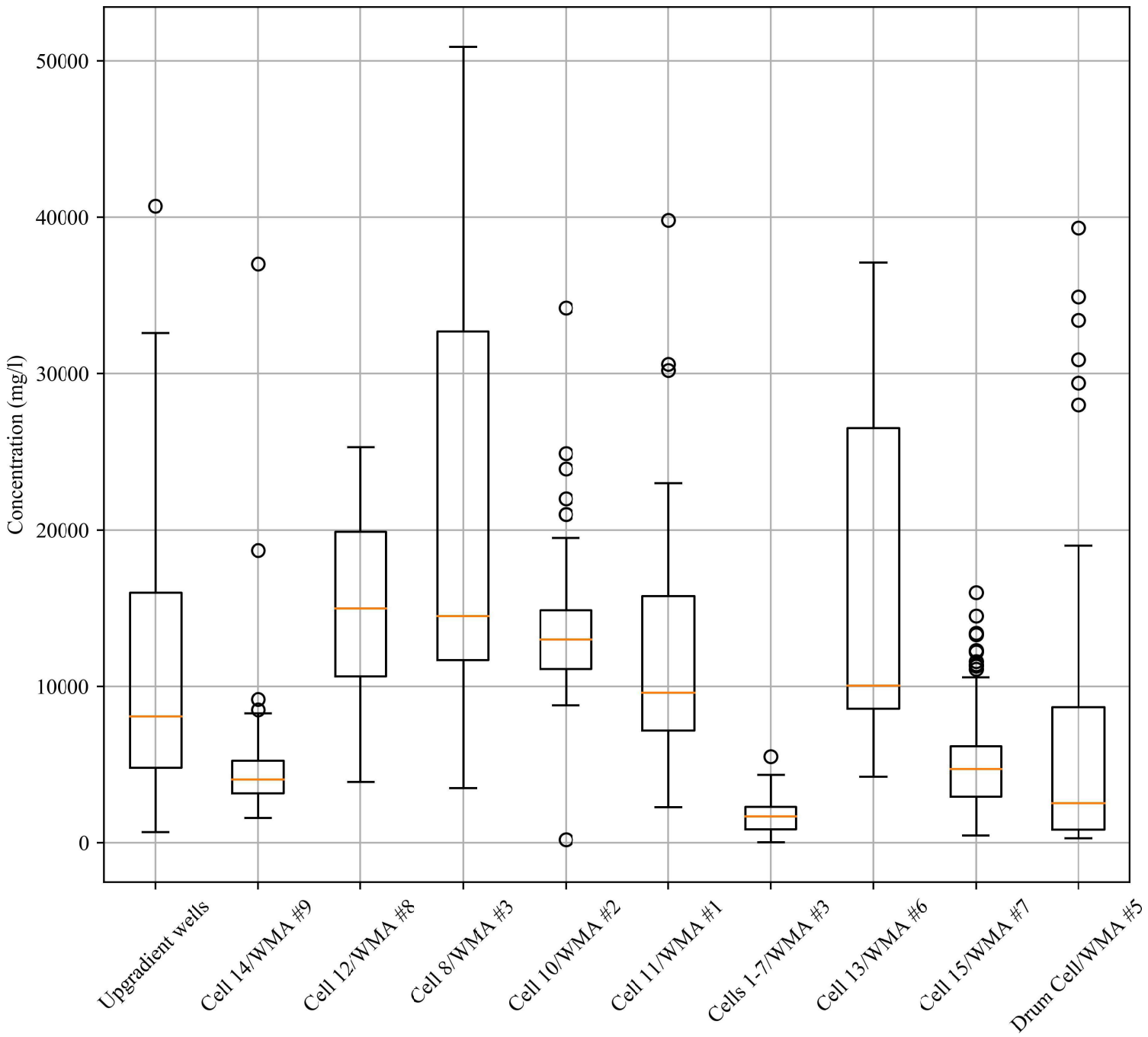
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-5: Box & Whisker Plots Calcium (Total)

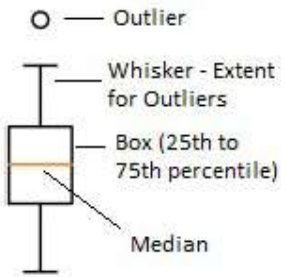
Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



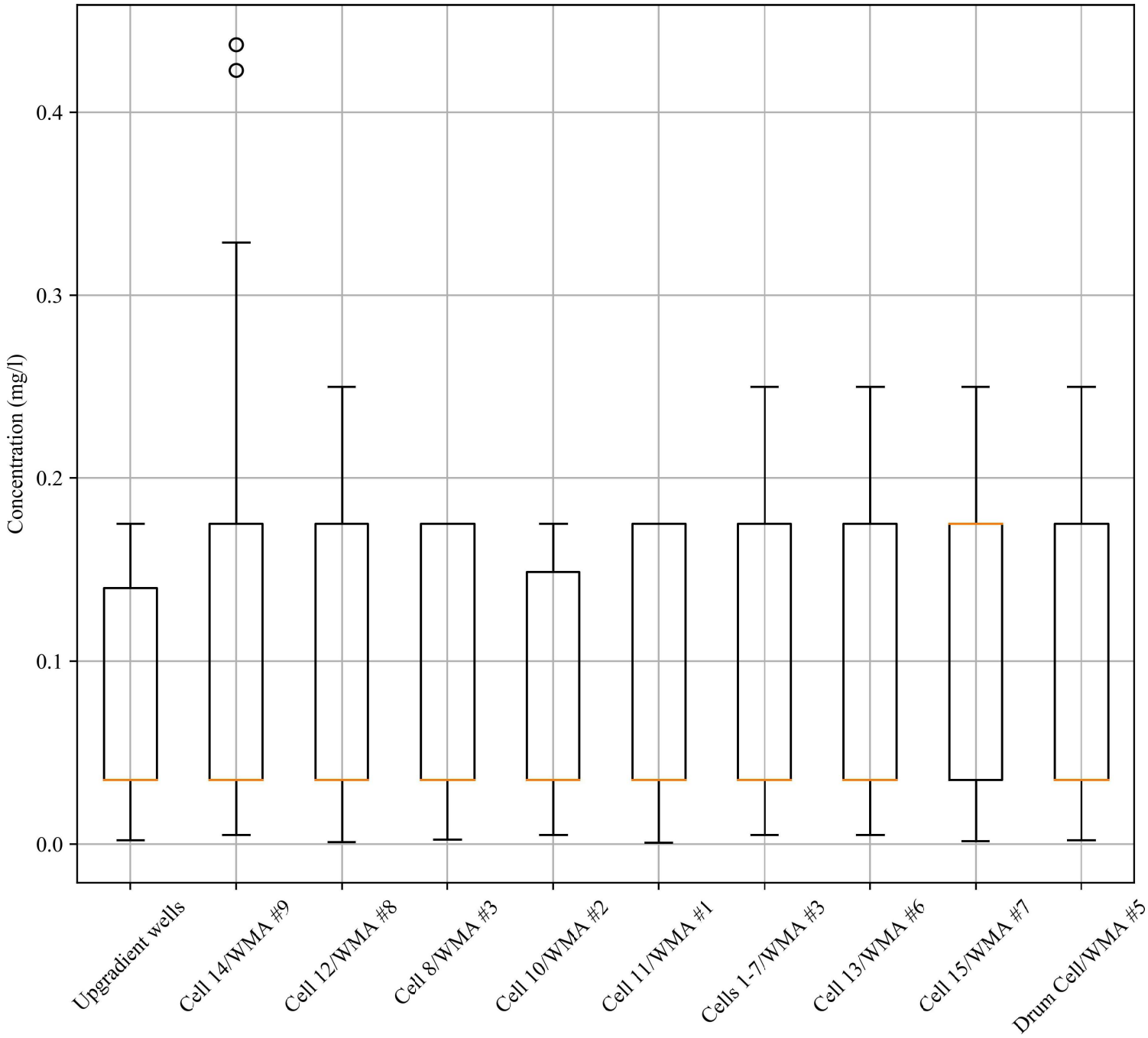
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-6: Box & Whisker Plots Chloride (Total)

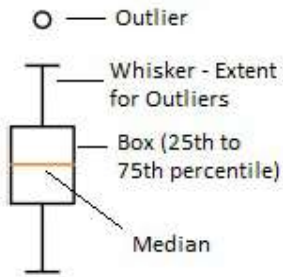
Drawn By: LA CC Generator 2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



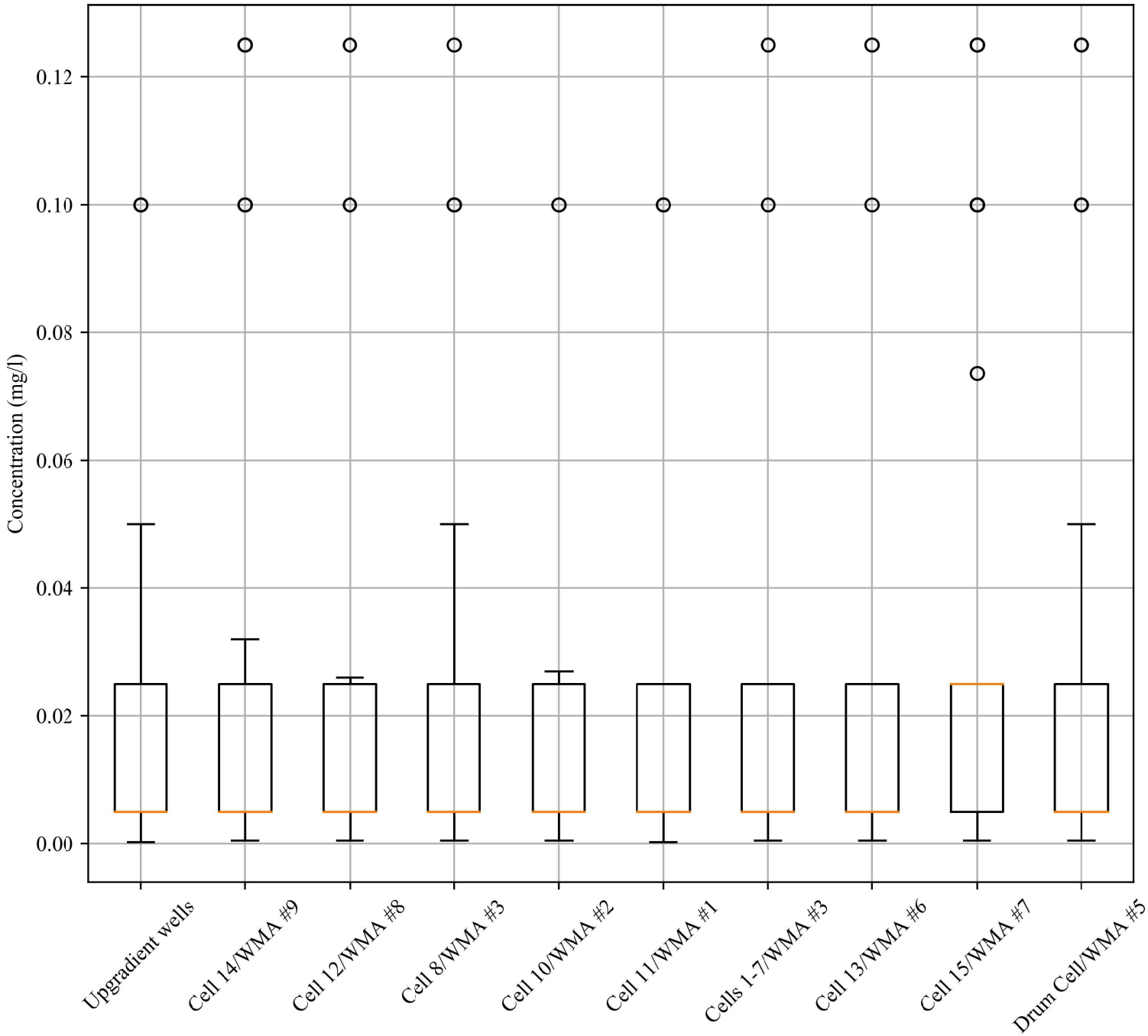
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-7: Box & Whisker Plots Chromium (Total)

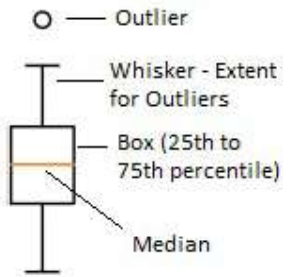
Drawn By: LA CC Generator 2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



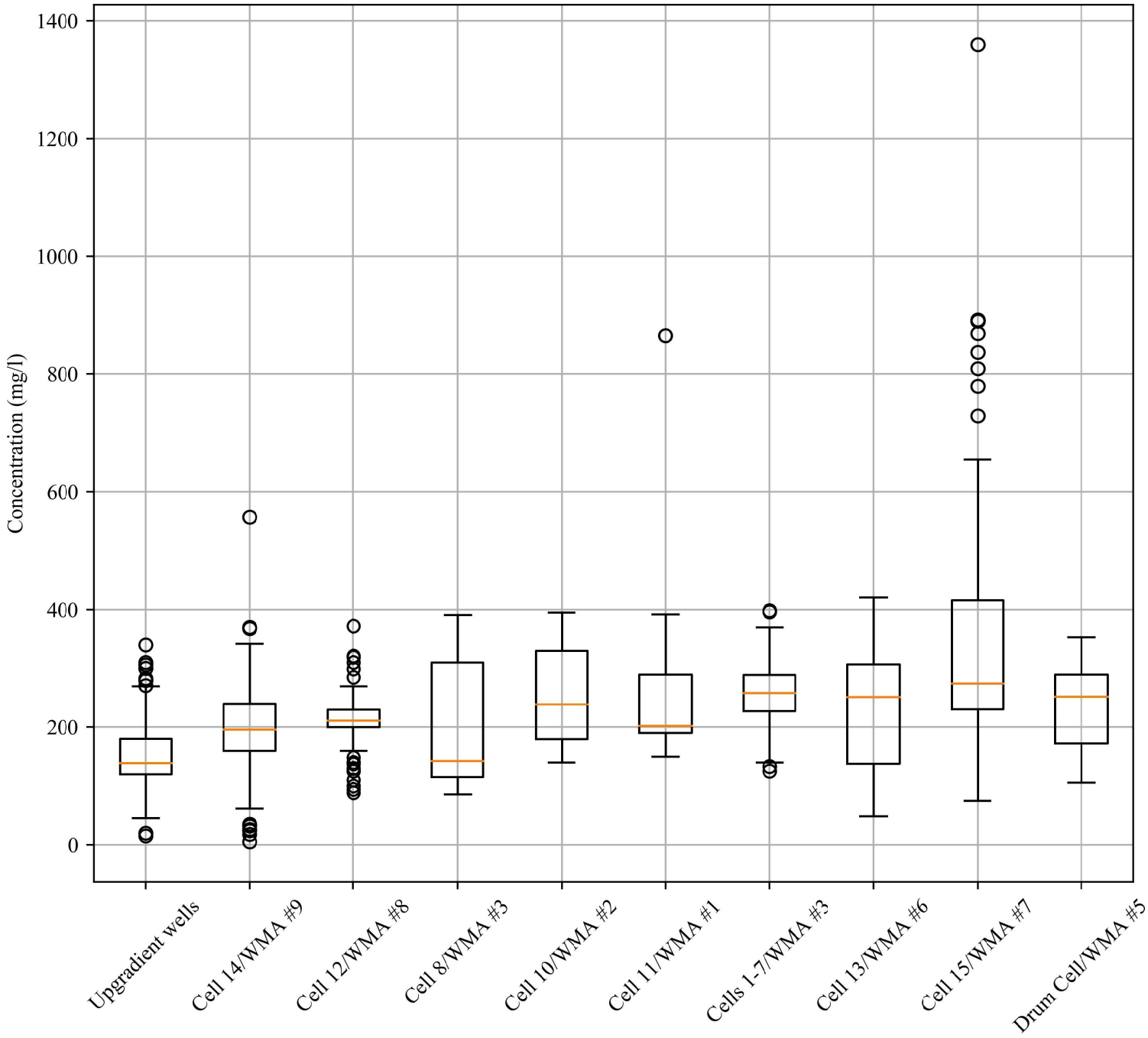
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-8: Box & Whisker Plots Lead (Total)

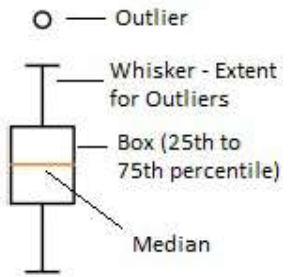
Drawn By: LA CC Generator 2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



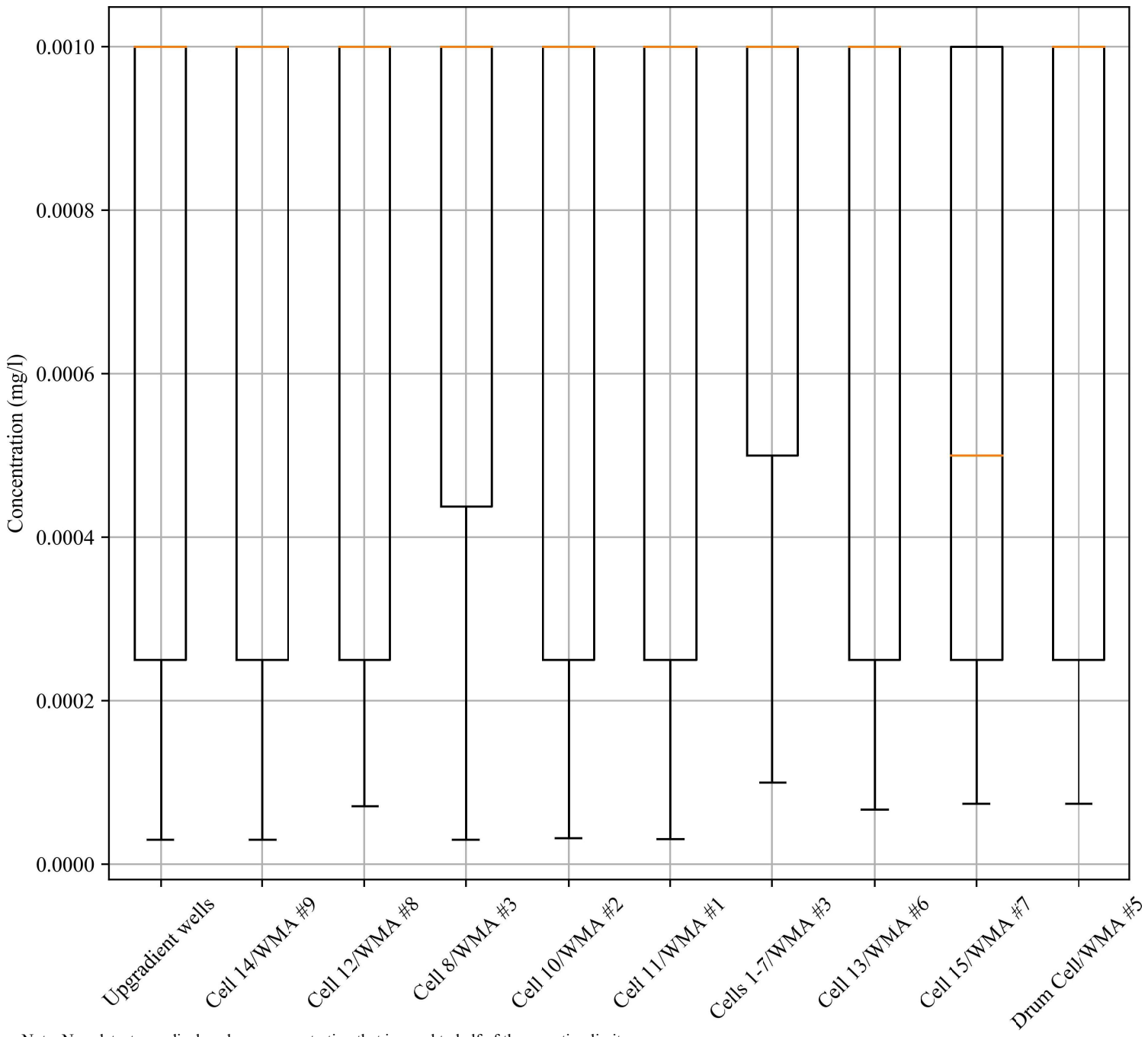
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.16-9:
Box & Whisker Plots
Magnesium (Total)

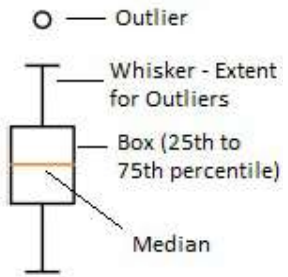
Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



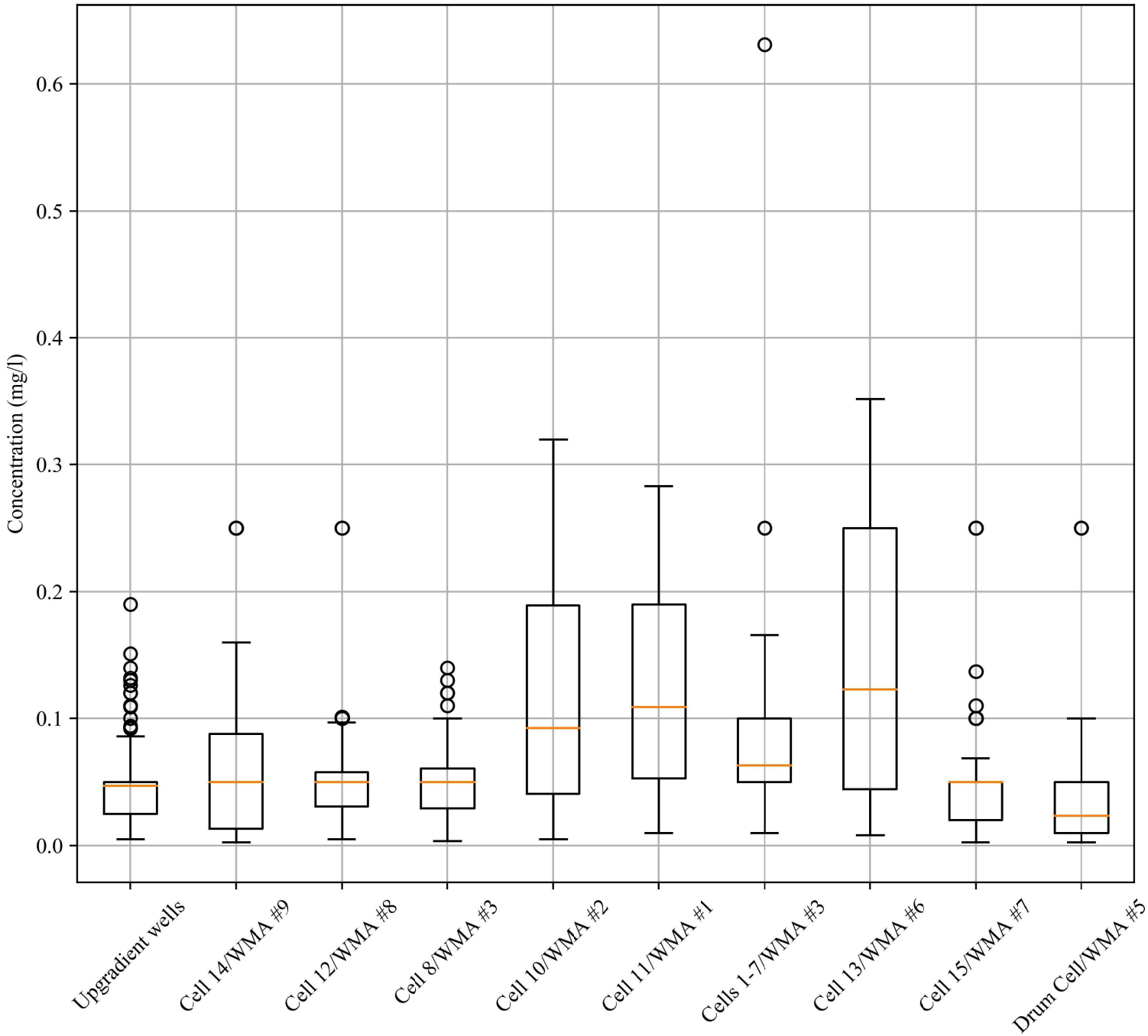
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-10: Box & Whisker Plots Mercury (Total)

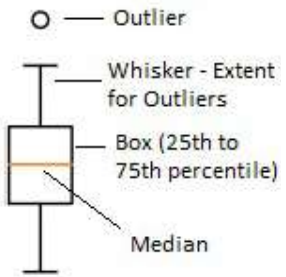
Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



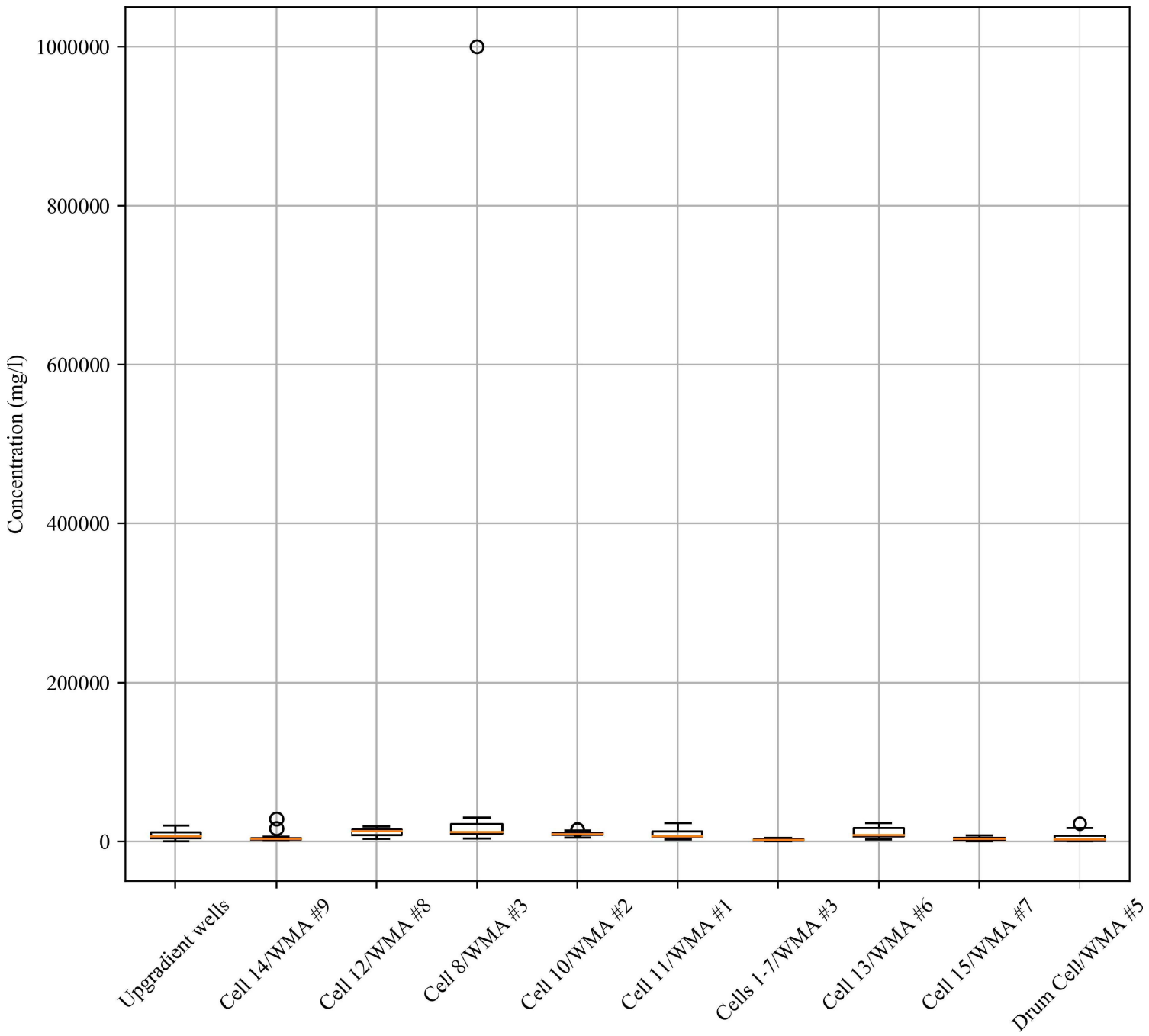
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-11: Box & Whisker Plots Selenium (Total)

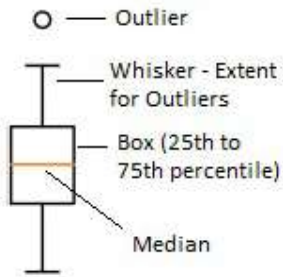
Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



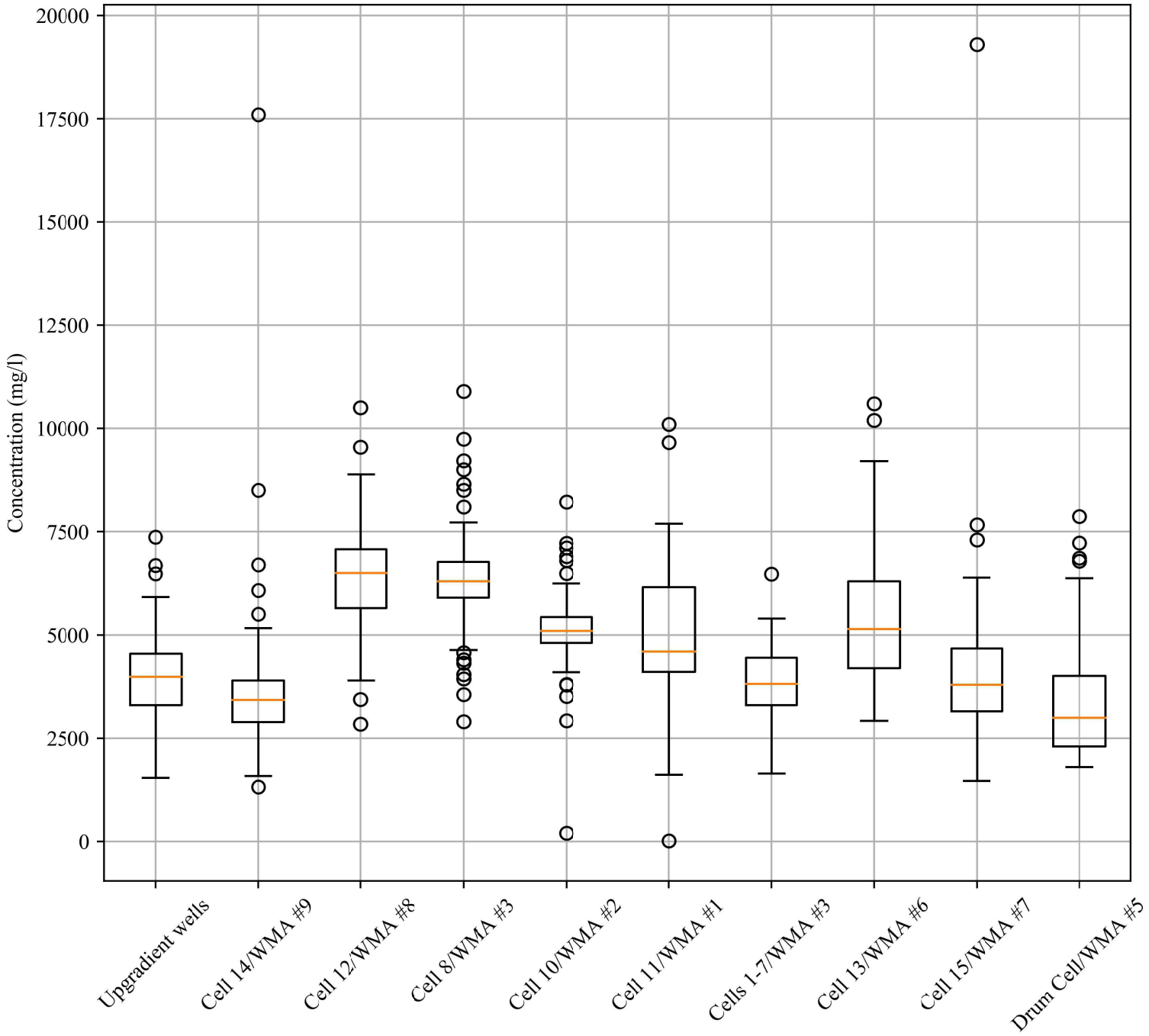
mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-12: Box & Whisker Plots Sodium (Total)

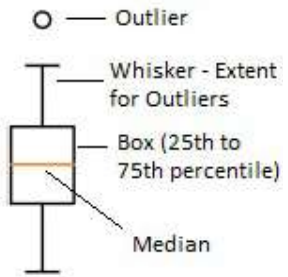
Drawn By: LA CC Generator 2020-09-09

Leppert Associates



Note: Non-detects are displayed as a concentration that is equal to half of the reporting limit.

Legend



mg/l = milligrams per liter

Clean Harbors Lone Mountain

Figure A3.16-13: Box & Whisker Plots Sulfate

Drawn By: LA CC Generator 2020-09-09

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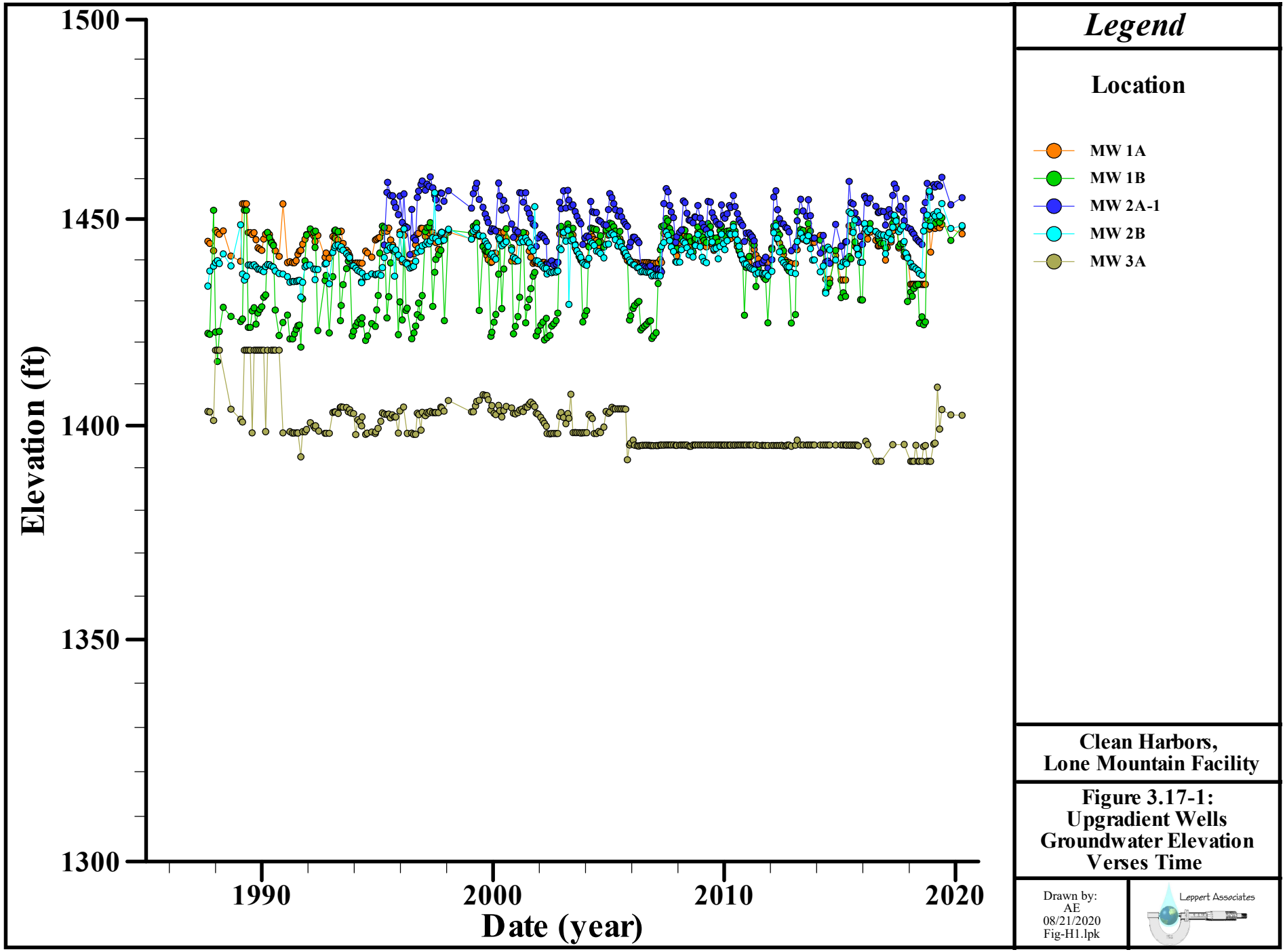
APPENDIX 3.17

MONITORING WELL HYDROGRAPHS

APPENDICES

APPENDIX 3.17

MONITORING WELL HYDROGRAPHS

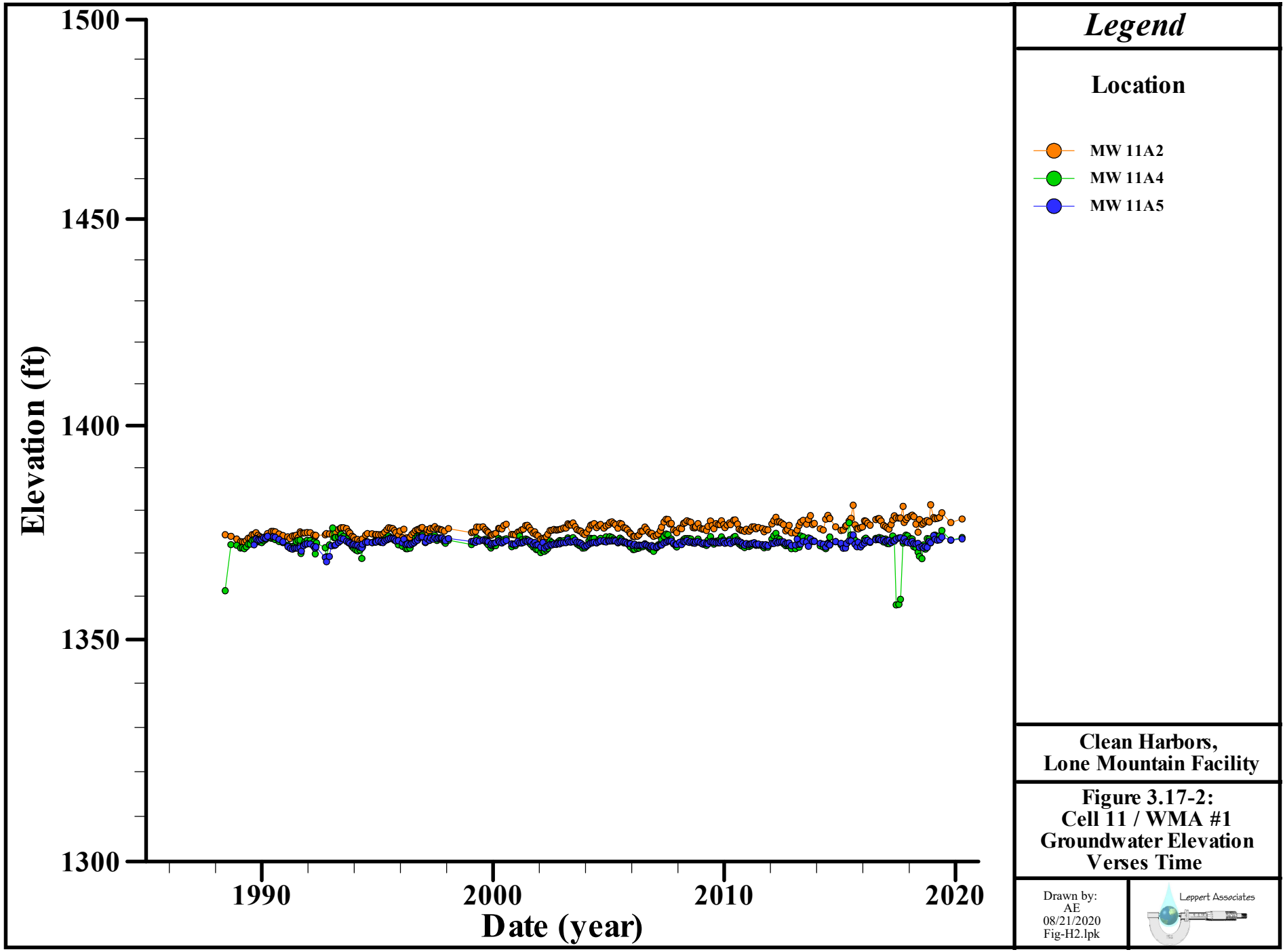


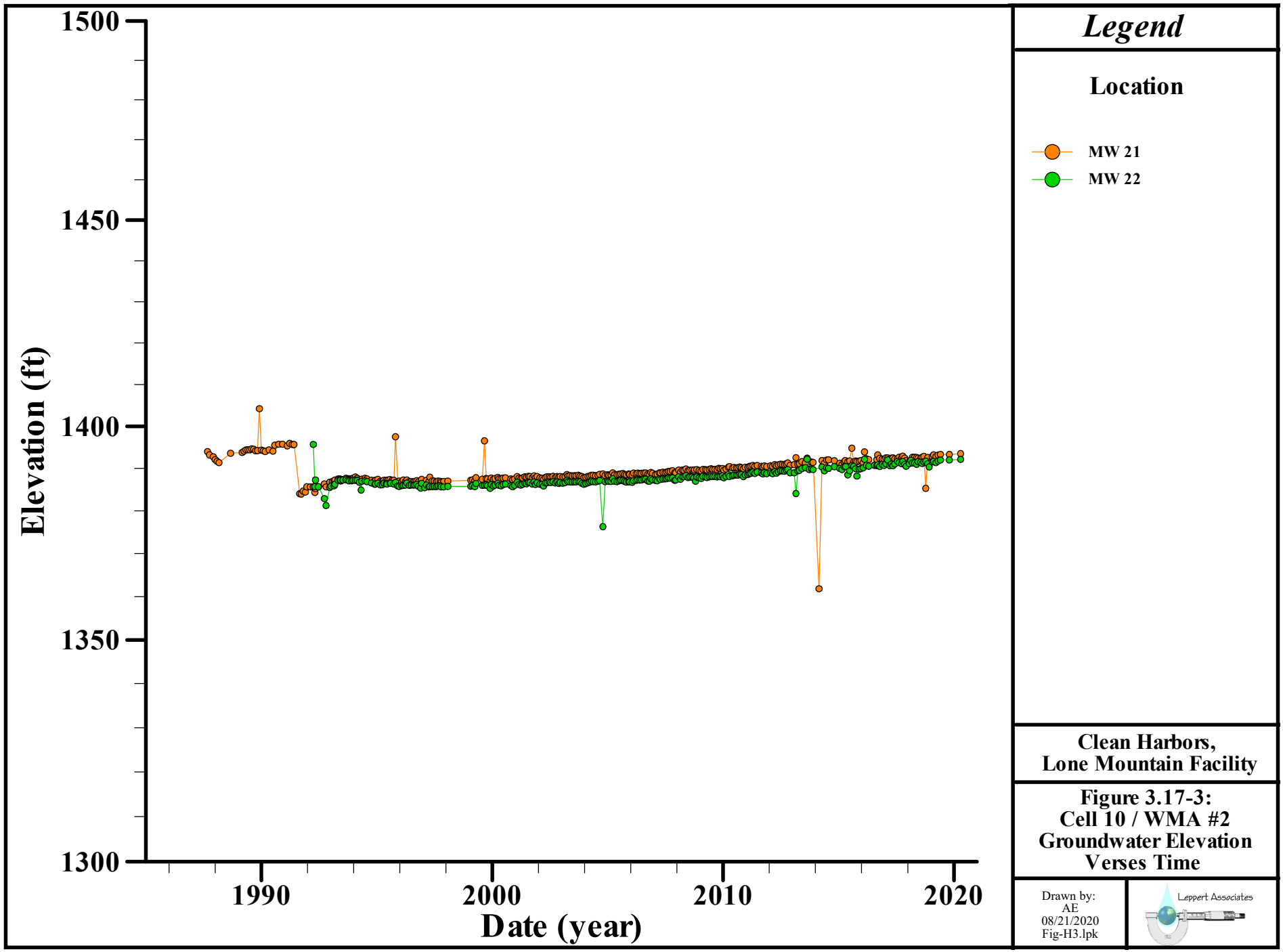
Clean Harbors,
Lone Mountain Facility

Figure 3.17-1:
Upgradient Wells
Groundwater Elevation
Verses Time

Drawn by:
AE
08/21/2020
Fig-H1.lpk

Leppert Associates


1500
1450
1400
1350
1300
Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
MW 11A2
MW 11A4
MW 11A5
Clean Harbors,
Lone Mountain Facility
Figure 3.17-2:
Cell 11 / WMA #1
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H2.lpk
Leppert Associates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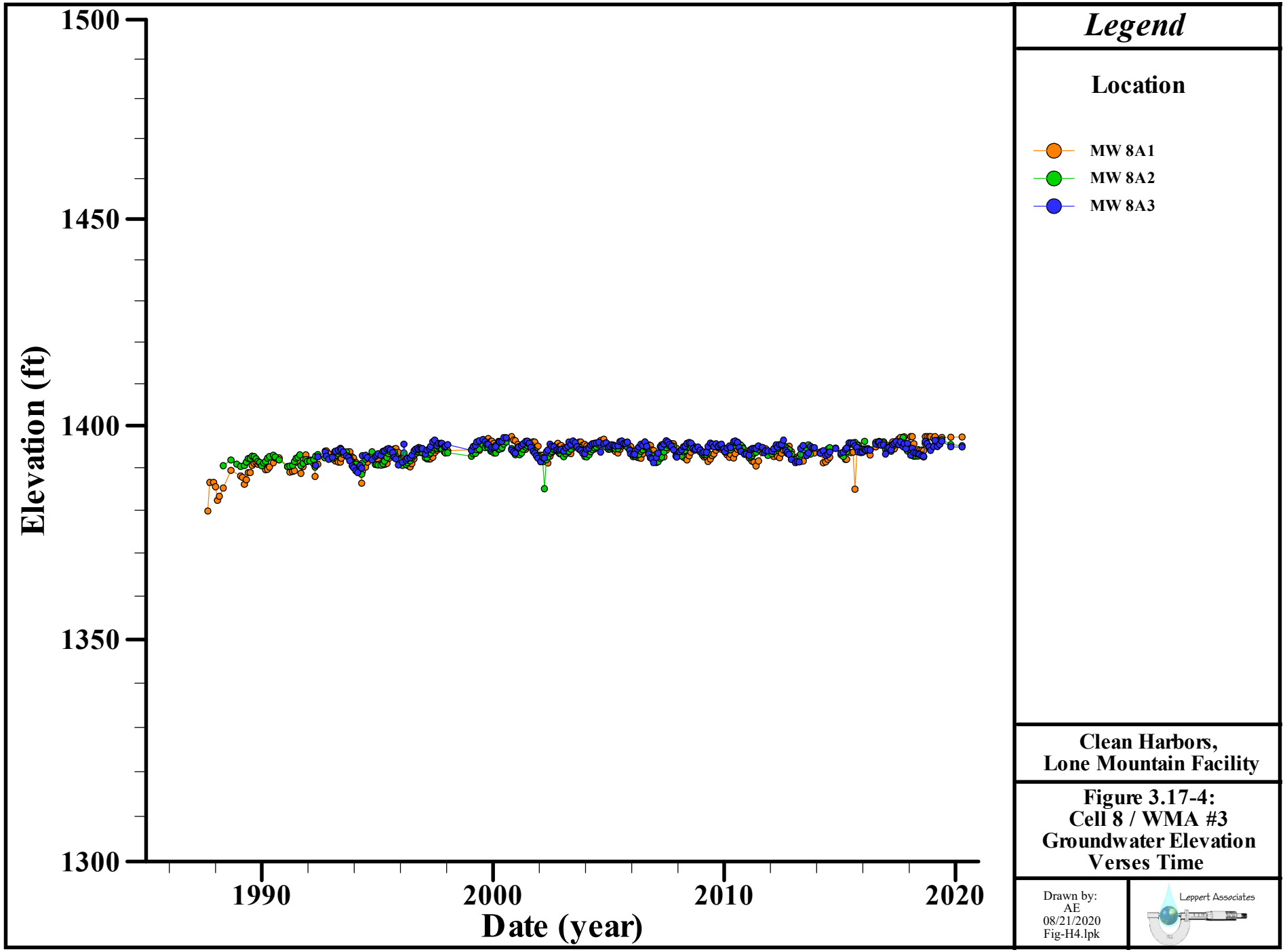
Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
MW 21
MW 22
Clean Harbors,
Lone Mountain Facility
Figure 3.17-3:
Cell 10 / WMA #2
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H3.lpk
Leppert Associates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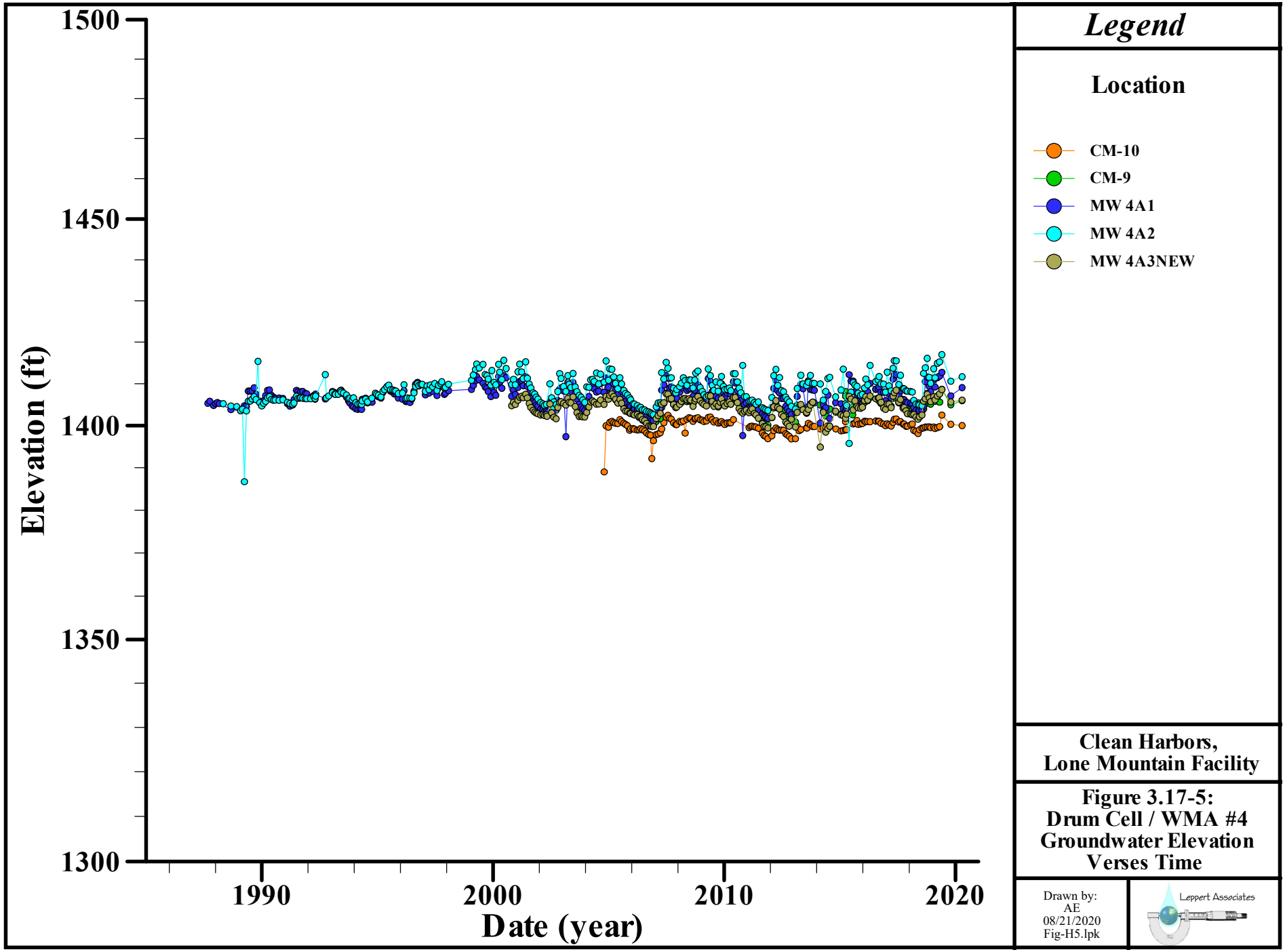
1350
1300
Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
MW 8A1
MW 8A2
MW 8A3
Clean Harbors,
Lone Mountain Facility
Figure 3.17-4:
Cell 8 / WMA #3
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H4.lpk
Leppert Associates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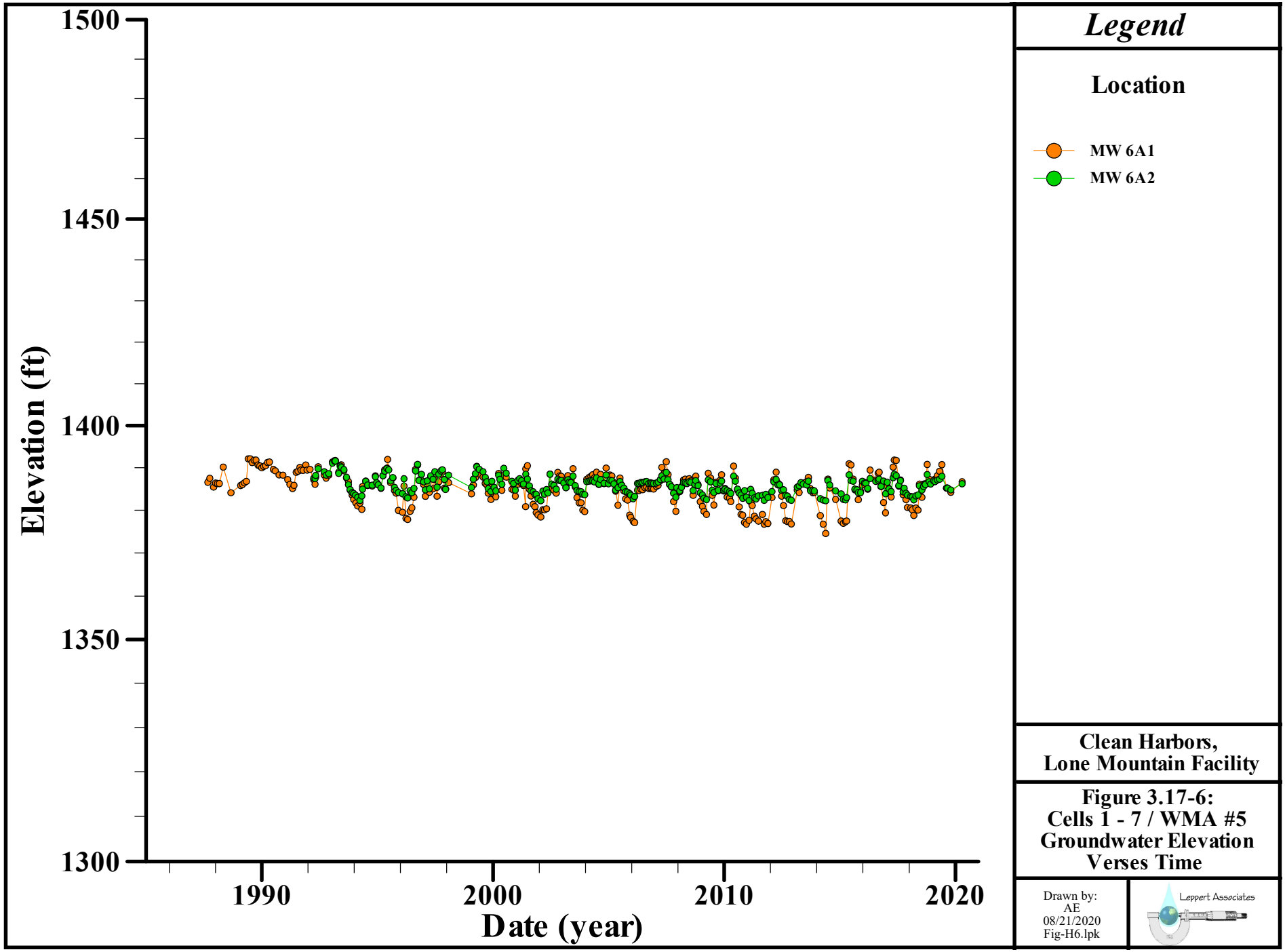
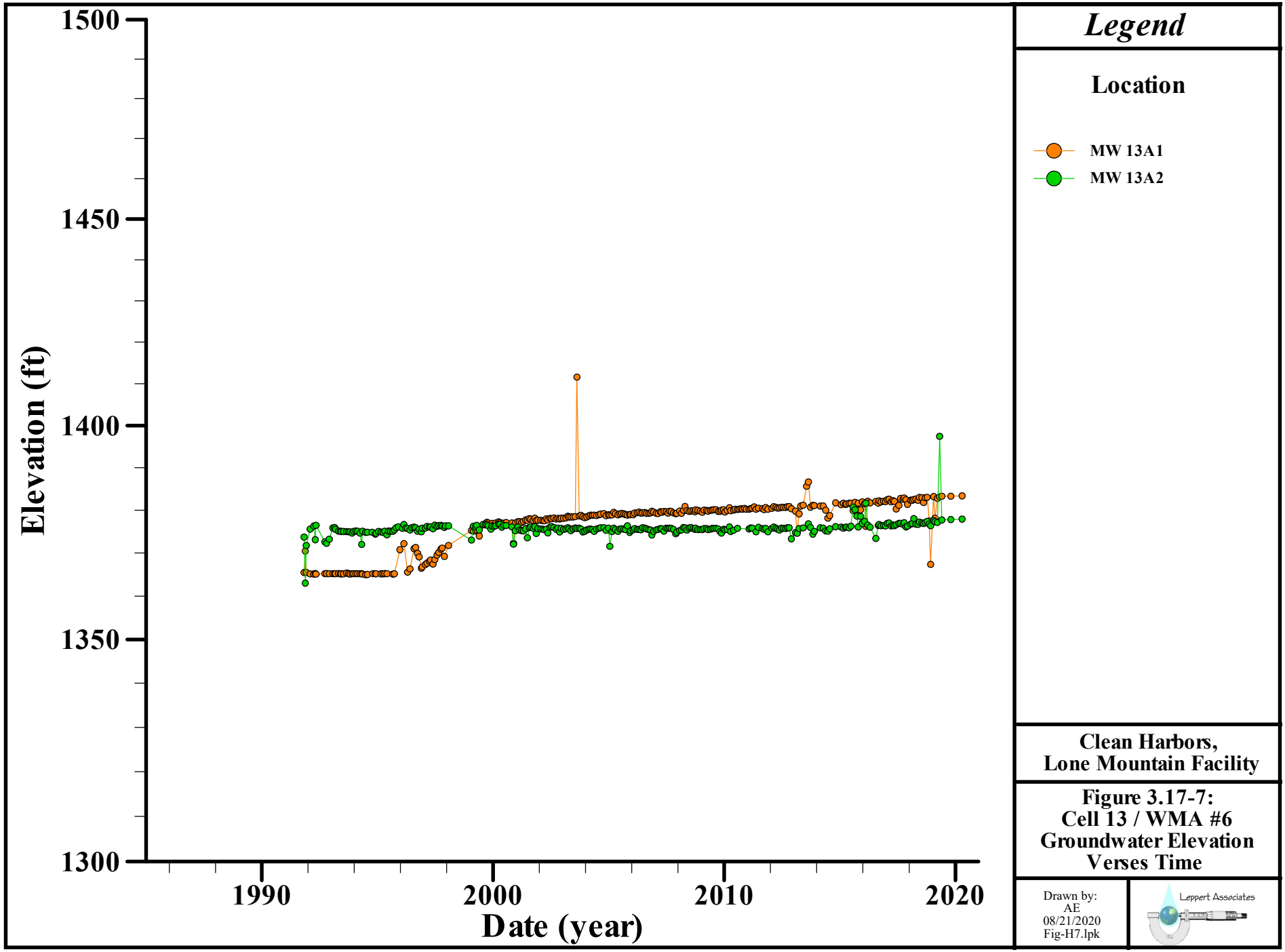
1450
1400
1350
1300
Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
CM-10
CM-9
MW 4A1
MW 4A2
MW 4A3NEW
Clean Harbors,
Lone Mountain Facility
Figure 3.17-5:
Drum Cell / WMA #4
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H5.lpk
Leppert Associates


1500
1450
1400
1350
1300
Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
MW 6A1
MW 6A2
Clean Harbors,
Lone Mountain Facility
Figure 3.17-6:
Cells 1 - 7 / WMA #5
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H6.lpk
Leppert Associates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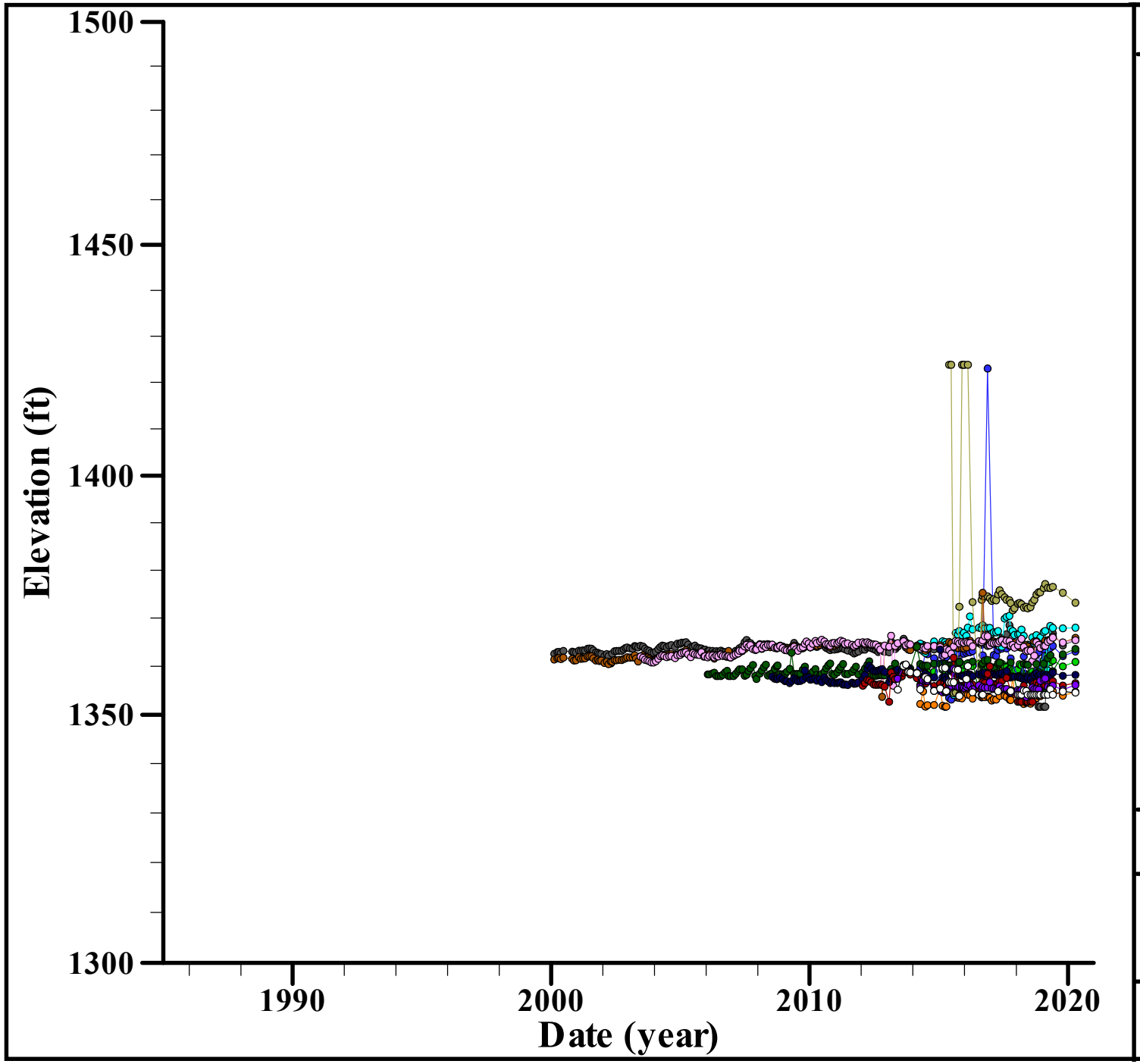
1300
Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
MW 13A1
MW 13A2
Clean Harbors,
Lone Mountain Facility
Figure 3.17-7:
Cell 13 / WMA #6
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H7.lpk
Leppert Associates



Legend

Location

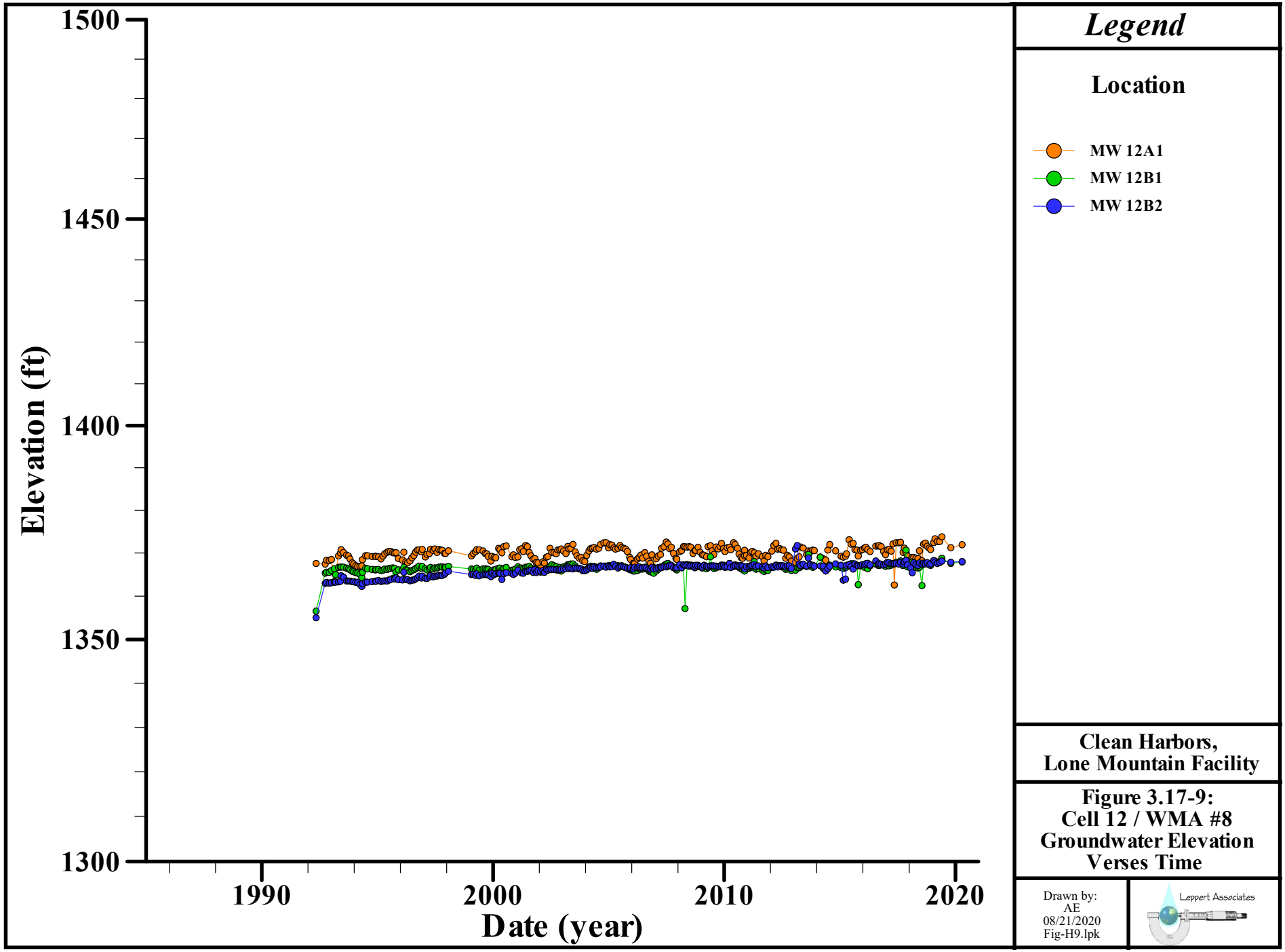
- MW 15A10
- MW 15A11
- MW 15A13A
- MW 15A13B
- MW 15A13C
- MW 15A6
- MW 15A7
- MW 15A8
- MW 15A1
- MW 15A2
- MW 15A3
- MW 15A4
- MW 15A5

Clean Harbors,
Lone Mountain Facility

Figure 3.17-8:
Cell 15 / WMA #7
Groundwater Elevation
Verses Time

Drawn by:
AE
08/21/2020
Fig-H8.lpk

Leppert Associates



Legend

Location

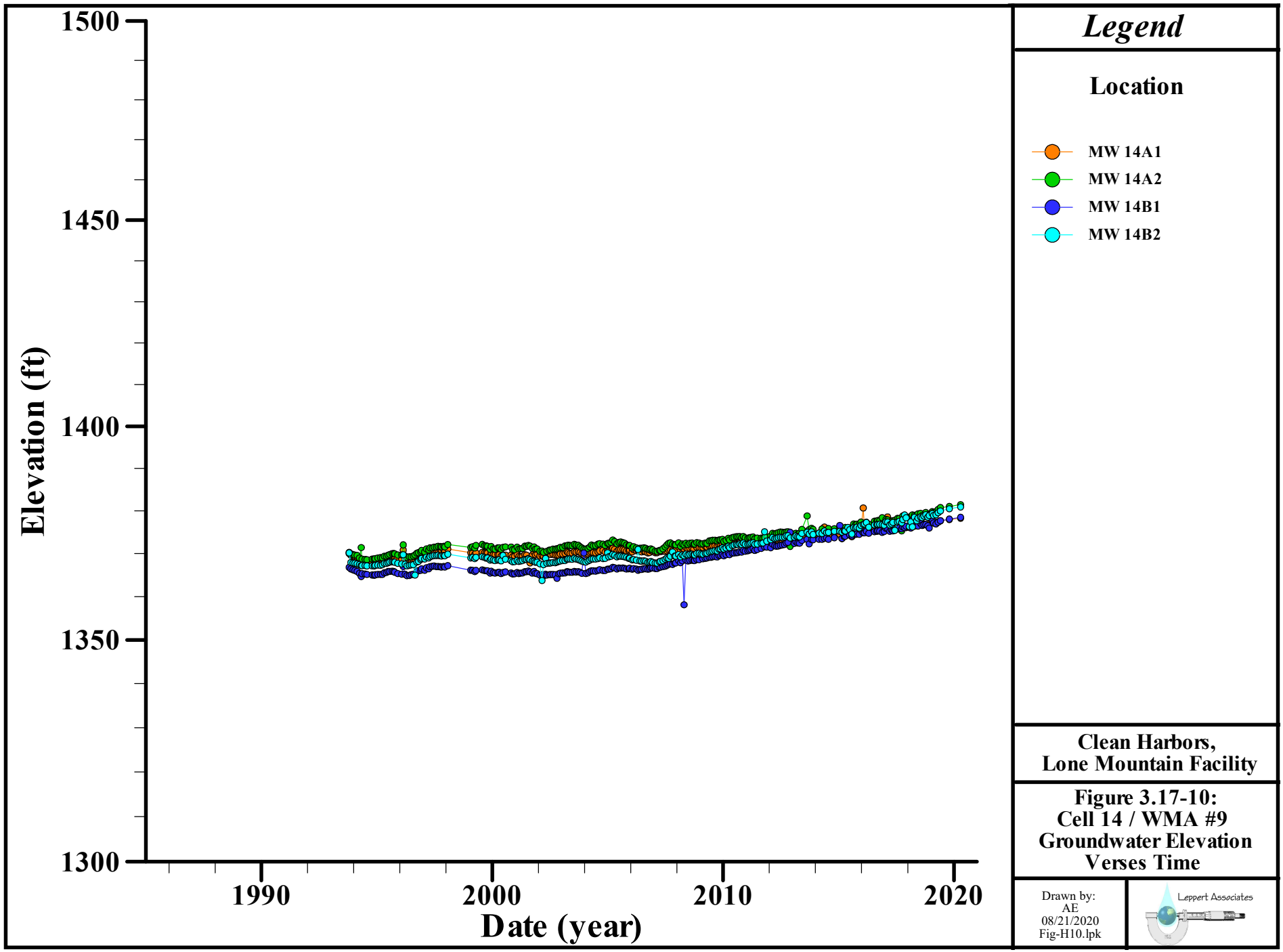
- MW 12A1
- MW 12B1
- MW 12B2

Clean Harbors,
Lone Mountain Facility

Figure 3.17-9:
Cell 12 / WMA #8
Groundwater Elevation
Verses Time

Drawn by:
AE
08/21/2020
Fig-H9.lpk

Leppert Associates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Elevation (ft)
1990
2000
2010
2020
Date (year)
Legend
Location
MW 14A1
MW 14A2
MW 14B1
MW 14B2
Clean Harbors,
Lone Mountain Facility
Figure 3.17-10:
Cell 14 / WMA #9
Groundwater Elevation
Verses Time
Drawn by:
AE
08/21/2020
Fig-H10.lpk
Leppert Associates

APPENDIX 3.18

WELL INSTALLATION, MAINTENANCE, AND ABANDONMENT SOP

Groundwater Monitoring Well Abandonment and Plugging Plan

The following steps will be used to plug and abandon monitoring wells, observation wells, and piezometers that are no longer needed or need to be replaced. These steps will minimize the potential for aquifer contamination via the borehole or deleterious affects to the geological environment near the borehole.

This document may be modified or altered to reflect new equipment, techniques, and methods. Appropriate regulatory agencies will be consulted or advised of contemplated changes.

Preliminary Steps Include, If Applicable:

1. Review well construction records for well construction details and repairs.
2. Conduct verification of field data including total well depth and depth to water measurements.
3. Determine the method of drilling and equipment needs.
4. Review health and safety compliance requirements with contractors.

Abandonment Procedures Include The Following:

1. Drilling activities will be coordinated with the Facility on equipment requirements and potential impacts on Facility operations.
2. The water supply to be used for decontamination, drilling, and mixing with plugging materials and/or additives shall be sampled and analyzed or be of a known quality (e.g. drinking water source).
3. All equipment to be used in plugging operations (including all down-hole bits augers, drill stem, tools, samplers, and attachments) must be steam cleaned or pressure washed prior to each use.
4. The concrete apron and protective steel pipe will be removed, if present. All casing will be pulled from the well, if possible. The casing may also have to be drilled out with the drill bit.
5. Depending on well construction, it may be necessary to leave casing in place and produce suitable perforations in the screen and blank casing to allow for plugging material to penetrate the annular space and formation.
6. If possible, the well will be drilled out to the original boring diameter and original depth. Cuttings from the boring will be examined as will penetration rates, etc. The borehole volume will be calculated to assist in confirmation of filling of plugging materials.
7. Flushing with water may be necessary to clear the borehole of debris and foreign matter to achieve an effective seal.
8. Plugging materials such as bentonite or cement will be pumped and/or tremied to the bottom of the well with the discharge line being gradually lifted toward the surface to assure complete filling and prevent bridging. Complete grouting slowly and as one continuous operation to land

surface. Allow the plugging material to set a minimum of four hours. If the top of the grout settles to below 6 feet below land surface, then additional grout will be placed to land surface.

9. Actual volume emplaced of all fill materials will be recorded. The specific gravity or (weight) of the grout mixture will be checked periodically during the plugging operations.
10. If the grout settles below the land surface, compacted native soil will be placed in the well from the top of the cement grout to land surface. The soil will be placed in lifts of no more than two feet. Each lift will be manually compacted with a tamping device suitable for the well diameter.
11. Decontaminate (steam clean or pressure wash) all downhole equipment between locations.
12. Properly disposed displaced fluids and other materials such as pulled or drilled out casing and cement seals.

Documentation Procedures

Documentation will include the following information: decommissioning date, field procedures, record of all measurements made (including depths encountered, types and volume of fluids pumped), and other pertinent information.

Monitoring well, Observation well, and Piezometer Maintenance Standard Operating Procedure

Introduction

This Standard Operating Procedure (SOP) describes procedures to be followed at the Lone Mountain Facility in order to ensure the integrity of each monitoring well, observation well, and piezometer is maintained. This SOP included regular well head inspection, field equipment, and instrumentation maintenance, and pump system maintenance. Mitigation steps for wells that require additional attention are also addressed. This SOP will be updated as deemed necessary by the Facility.

Well Head Inspection

Water levels are measured on a regular schedule in all monitoring wells and selected observation wells and piezometers. This procedure requires that field personnel access each well to obtain measurements. During this process, a general inspection of the condition of each well will be made.

This inspection will include the following (which may or may not require maintenance):

- Damaged or missing well caps;
- Well identifications are legible;
- Lock function;
- Condition of annular space;
- Survey reference points are marked, if required;
- Confirm that locks or caps are secured; and,
- Condition of bumper guards, protective casings, concrete pads, and local ground conditions.

Any abnormality is recorded and reported to the Facility Manager or his designee. Patching, painting, and small repair and/or replacements may be done by field personnel.

An annual inspection is made for the total depth of each monitoring well. The dedicated pumps are removed at the time of this inspection. Each total depth reading is compared to the previous reading for significant changes. Significant accumulation of sediment in the bottom of a well will be appropriately removed as deemed necessary by the Facility Manager or his designee. Pumps will be visually inspected and cleaned with deionized water if there is evidence of sediment, chemical, or biological growth.

Additional elevation surveys by a licensed surveyor will be performed following evidence of abnormal or excess settlement, flexed, or broken well casing, or broken seals between components. Abnormalities will recorded and reported to the Facility Manager or his designee.

Pump System Maintenance

Malfunctions of a bladder, purge pump, or controller may be detected during the purging or sampling operations.

1) Each time the pump is removed from the well bore, the following may be completed:
    - The drain hole in the water discharge line will be checked and cleared, if necessary;
    - Bladder sleeves may be replaced, if necessary; and,
    - Fittings will be checked for tightness
2) All replacements or repairs will be accomplished using protective gloves and/or clean tools, being careful to keep all potential contamination from any part of the well or fittings.
3) The manufacturer may be contacted about malfunctioning pumps or controllers. If a pump or controller is deemed non-repairable at the facility, the non-operable unit may be returned to the manufacturer for repair.

Monitoring Well Design and Installation

Introduction

The primary objective of a monitoring well is to provide an access point for measuring groundwater levels and to permit the procurement of groundwater samples that accurately represent in-situ groundwater conditions at the specific point of sampling. The construction materials and their proper installation have a direct impact on the quality of samples and the water levels as represented by the monitoring well. It is necessary to have a thorough knowledge of the diverse types of materials and techniques used in monitoring well construction.

Procedures

Monitoring well construction should be undertaken with minimum disturbance to native soils. The construction materials should be compatible with the anticipated geological and chemical environment. The length and placement of the well screen should allow for fluctuating water levels within the formation. The monitoring well should be completed within the desired zone and sealed to allow for the collection of representative water quality samples.

Prior to installing new monitoring wells at the Lone Mountain Facility, a detailed workplan will be prepared for each new well installation in order to properly address the items stated above. The well installation workplan will also address applicable permit or regulatory requirements.

The well installation workplan will include (but may not be limited to) the following components:

- Monitoring well location and design;
- Monitoring well construction materials;
    - Primary filter pack materials and gradation
    - Well screen materials, diameter, and slot size
    - Riser materials, diameter, and type of joints
    - Annular sealant materials
    - Secondary filter pack materials and gradation, if necessary
- Drilling method;
- Monitoring well installation;

  - Assembly of well screen and riser
  - Installation of primary filter pack
  - Placement of secondary filter pack, if necessary
  - Installation of bentonite seal
  - Grouting the annular space

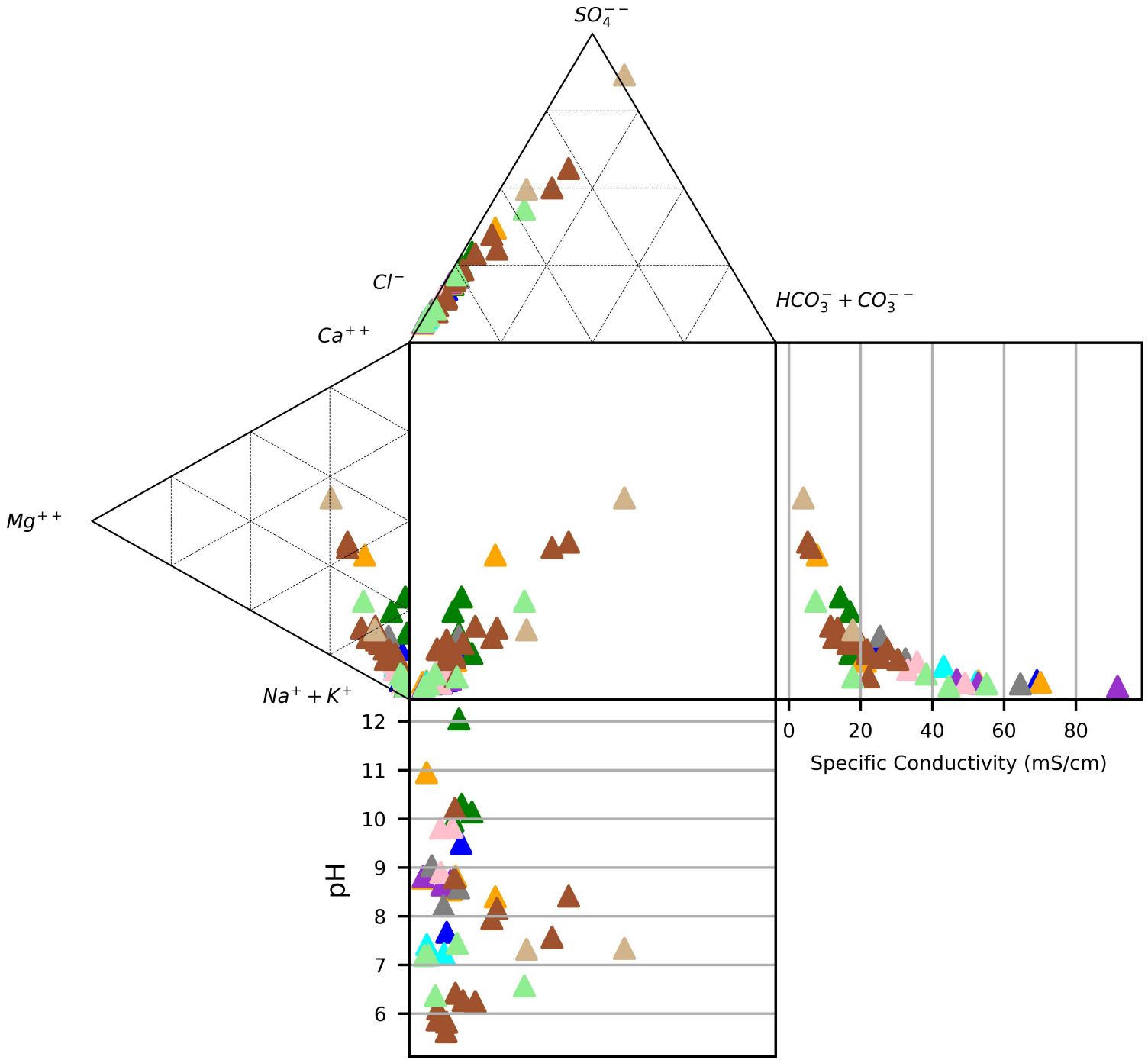
- Well protection;
- Well development; and,
- Well testing.

The vertical and horizontal position of each new monitoring well will be surveyed by a licensed surveyor. Each elevation survey will include the elevation (mean sea level) recorded to the nearest 0.01 feet for the top of casing and ground surface or cement pad. Top of casing elevations will be used as the reference point for water level measurements.

After new wells are installed, a complete well construction report will be prepared. The well construction report will describe the actual completion details of each new well and may include a well location map, monitoring well logs, and any other pertinent well installation documents.

APPENDIX 3.19

DUROV PLOTS



Legend

- Cell 13 / WMA #6
- Cell 14 / WMA #9
- Upgradient Wells
- Cell 10 / WMA #2
- Cell 8 / WMA #3
- Cell 11 / WMA #1
- Cell 12 / WMA #8
- Cell 15 / WMA #7
- Drum Cell / WMA #4
- Cells 1 - 7 / WMA #5

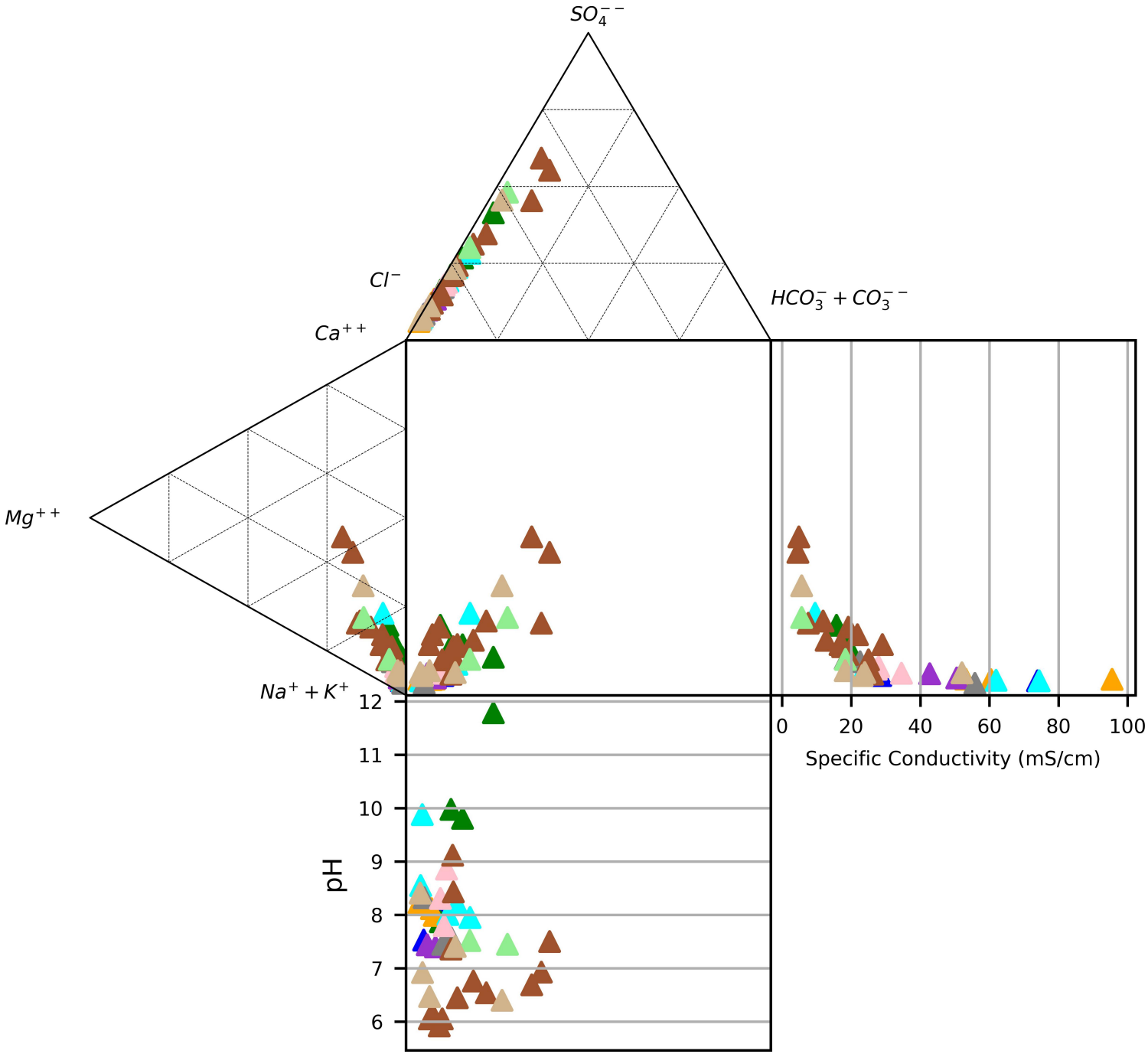
mS/cm = millisiemens per centimeter

Clean Harbors
Lone Mountain

Durov Plot
First Semi-Annual 2019

Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Legend

- Cell 13 / WMA #6
- Cell 14 / WMA #9
- Cell 8 / WMA #3
- Upgradient Wells
- Cell 10 / WMA #2
- Cell 11 / WMA #1
- Cell 12 / WMA #8
- Cell 15 / WMA #7
- Cells 1 - 7 / WMA #5
- Drum Cell / WMA #4

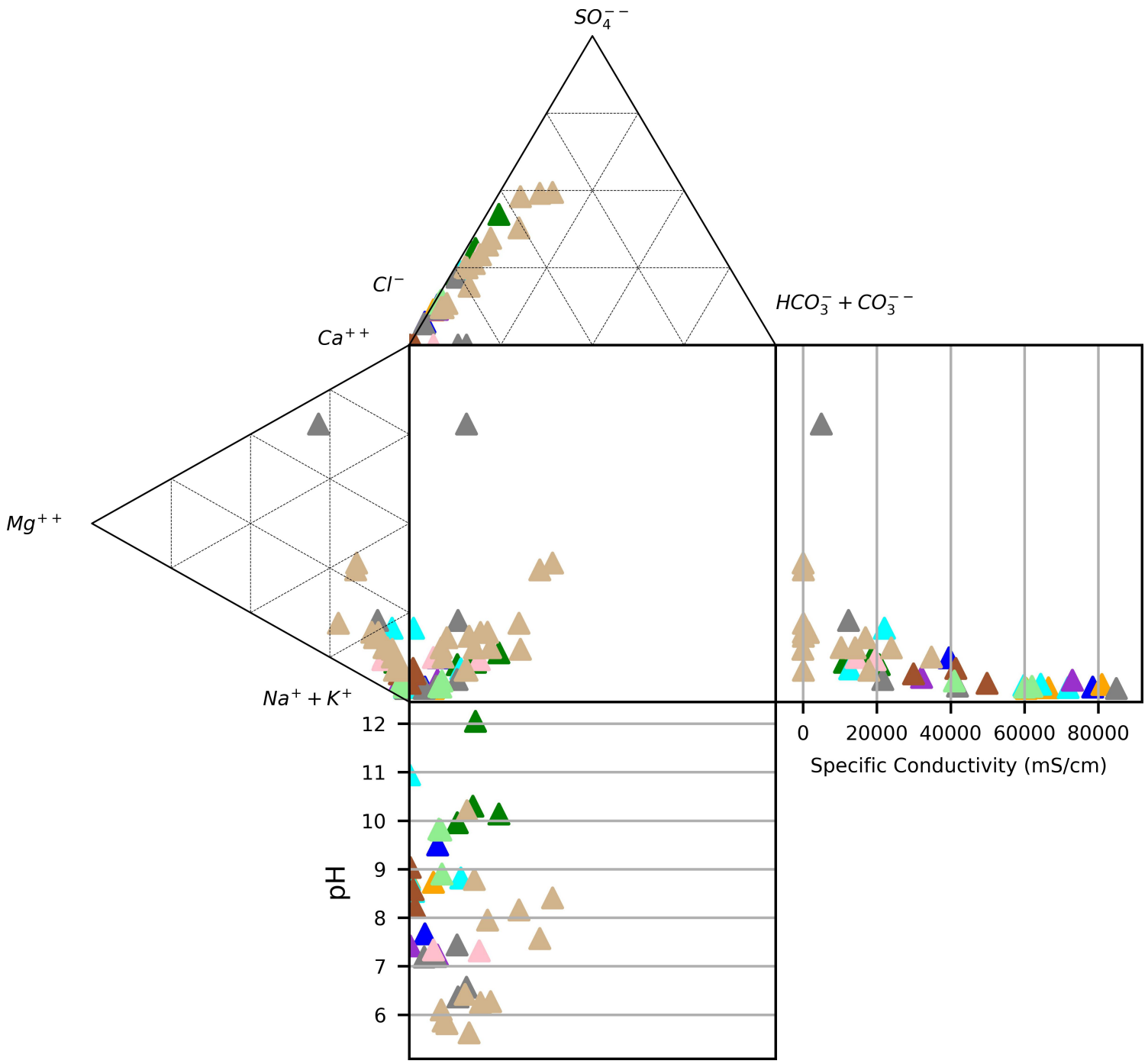
mS/cm = millisiemens per centimeter

Clean Harbors
Lone Mountain

Durov Plot
Second Semi-Annual 2019

Drawn By: LA CC
Generator
2020-09-09

Leppert Associates



Legend

- Cell 13 / WMA #6
- Cell 14 / WMA #9
- Cell 8 / WMA #3
- Upgradient Wells
- Cell 10 / WMA #2
- Drum Cell / WMA #4
- Cells 1 - 7 / WMA #5
- Cell 11 / WMA #1
- Cell 12 / WMA #8
- Cell 15 / WMA #7

mS/cm = millisiemens per centimeter

Clean Harbors
Lone Mountain

Durov Plot
All Historical Data

Drawn By: LA CC
Generator
2020-09-09

Leppert Associates

APPENDIX 3.20

OIL AND GAS WELL SURVEY

Legend

0 1 2 3 4 mi

N

Legend

- Roads
- 7.5 Mile Radius
- Center Point of Facility
- Gas Commercial Disposal Well
- Gas Class 2 Non-Commercial Disposal Well

Clean Harbors Lone Mountain Facility

Figure A3.20:
Oil and Gas Well Survey

Drawn By: RRR
LoneMtn.qgs
9/3/2020

Leppert Associates

Table A3.20
Oil and Gas Well Surevey
Oil and Gas Wells in Closest Proximity to the Lone Mountain Facility
Clean Harbors, LLC - Lone Mountain Facility

API Number	OWNER NAME	LATITUDE	LONGITUDE	Quadrant	DATE APPROVAED	WELL TYPE	DISTANCE FROM SITE (miles)
3509320029	ARROW OIL & GAS LLC	36.44320219	-98.80220498	NE	9/7/1973	CDW	1.016204536
3509323849	CAPSTONE OILFIELD DISPOSAL SERVICE LLC	36.413371	-98.76912	NE	6/28/1994	CDW	2.260458763
3515123739	EAGLE EXPLORATION PRODUCTION LLC	36.51176	-98.789998	SW	8/20/2012	2D	5.806468132
3509320164	RIVIERA OPERATING LLC	36.356812	-98.71933	NE	6/10/1987	2D	6.889434228
3509322470	CASILLAS PETROLEUM CORPORATION	36.337296	-98.73555	SE	2/17/2013	2D	7.410216393

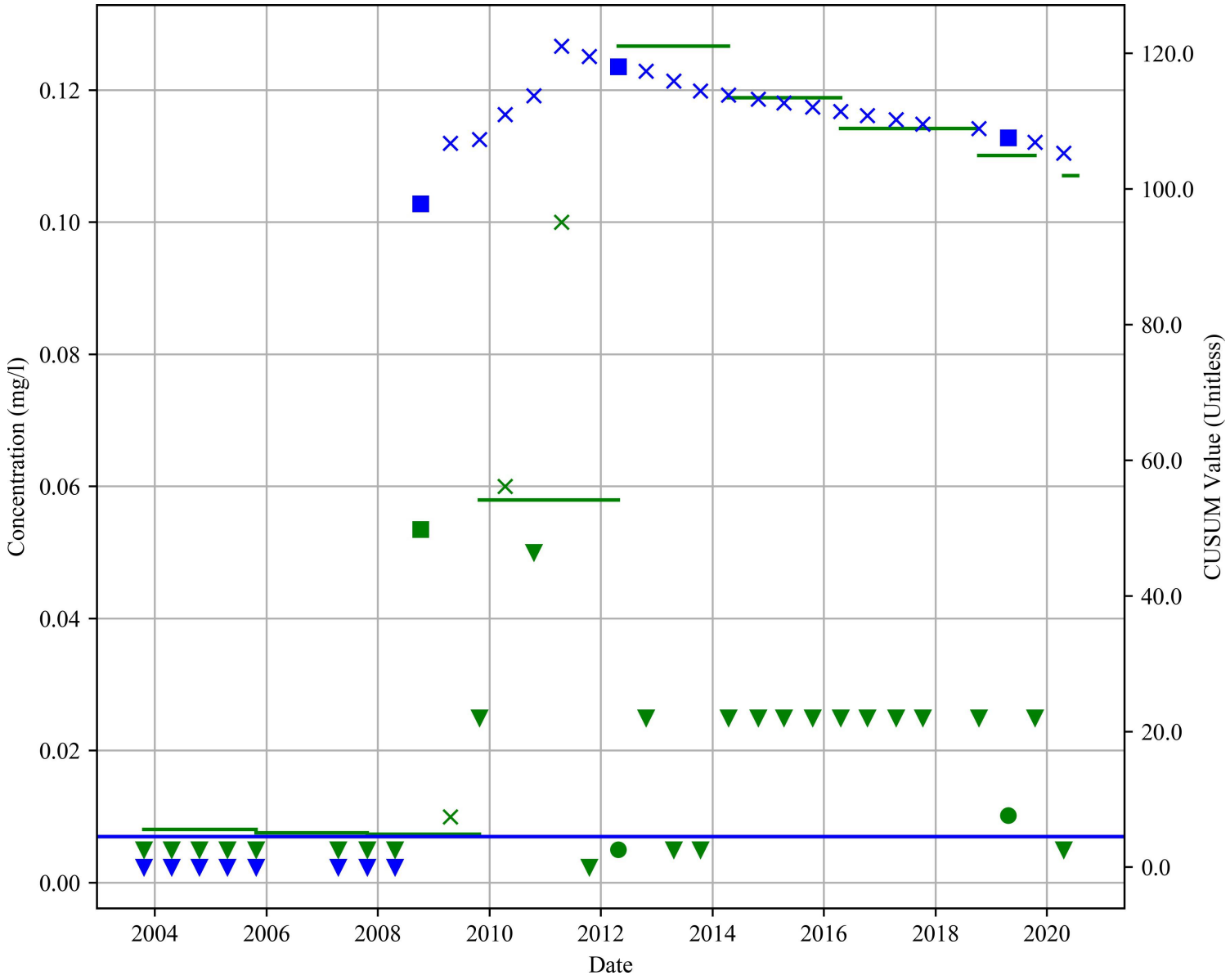
Notes:

2D=CLASS 2 NON-COMMERCIAL DISPOSAL WELL

CDW=COMMERCIAL DISPOSAL WELL

APPENDIX 3.21

CONTROL CHARTS FOR DETECTION MONITORING WELL NETWORK (2009-2019)



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

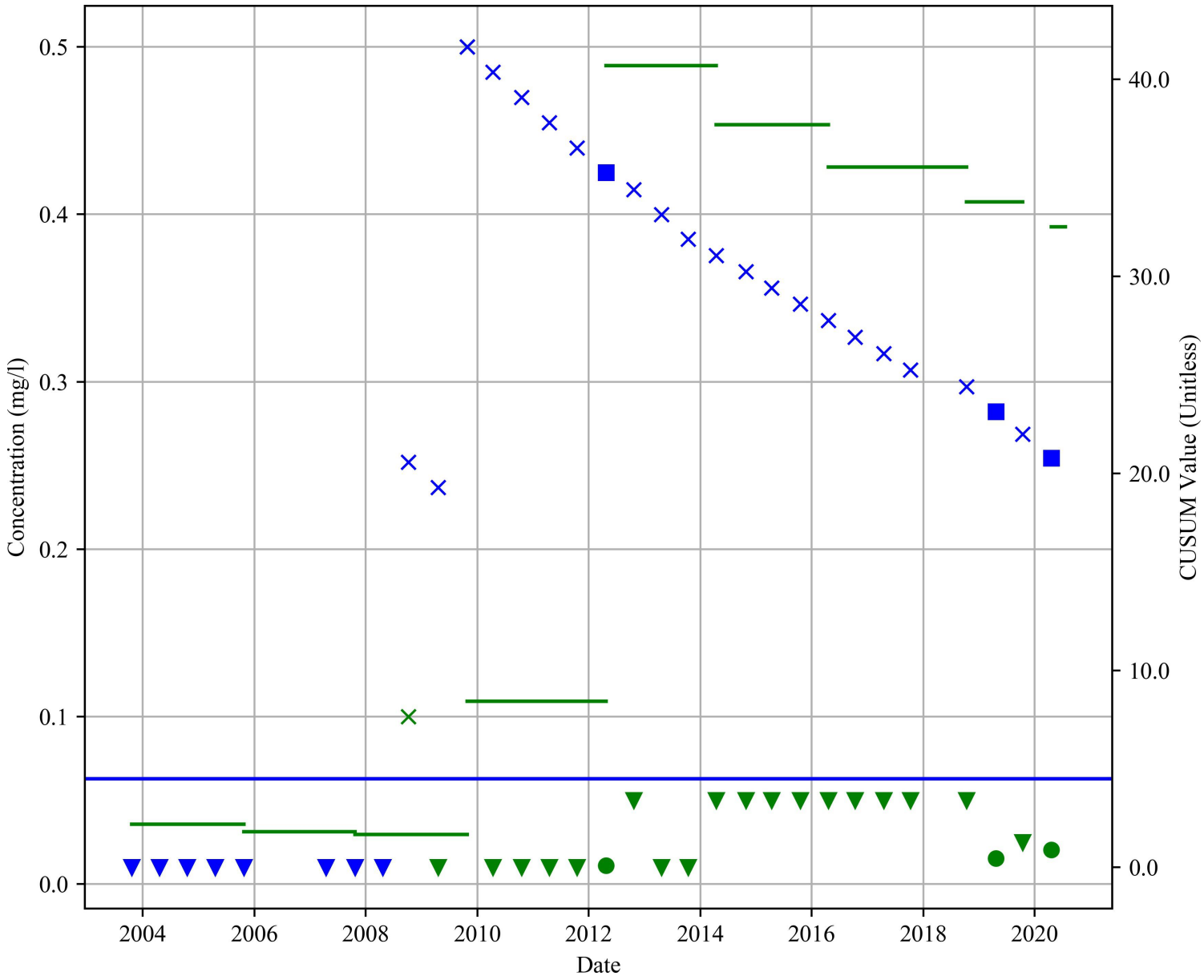
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-1:
Control Chart
MW 1A
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

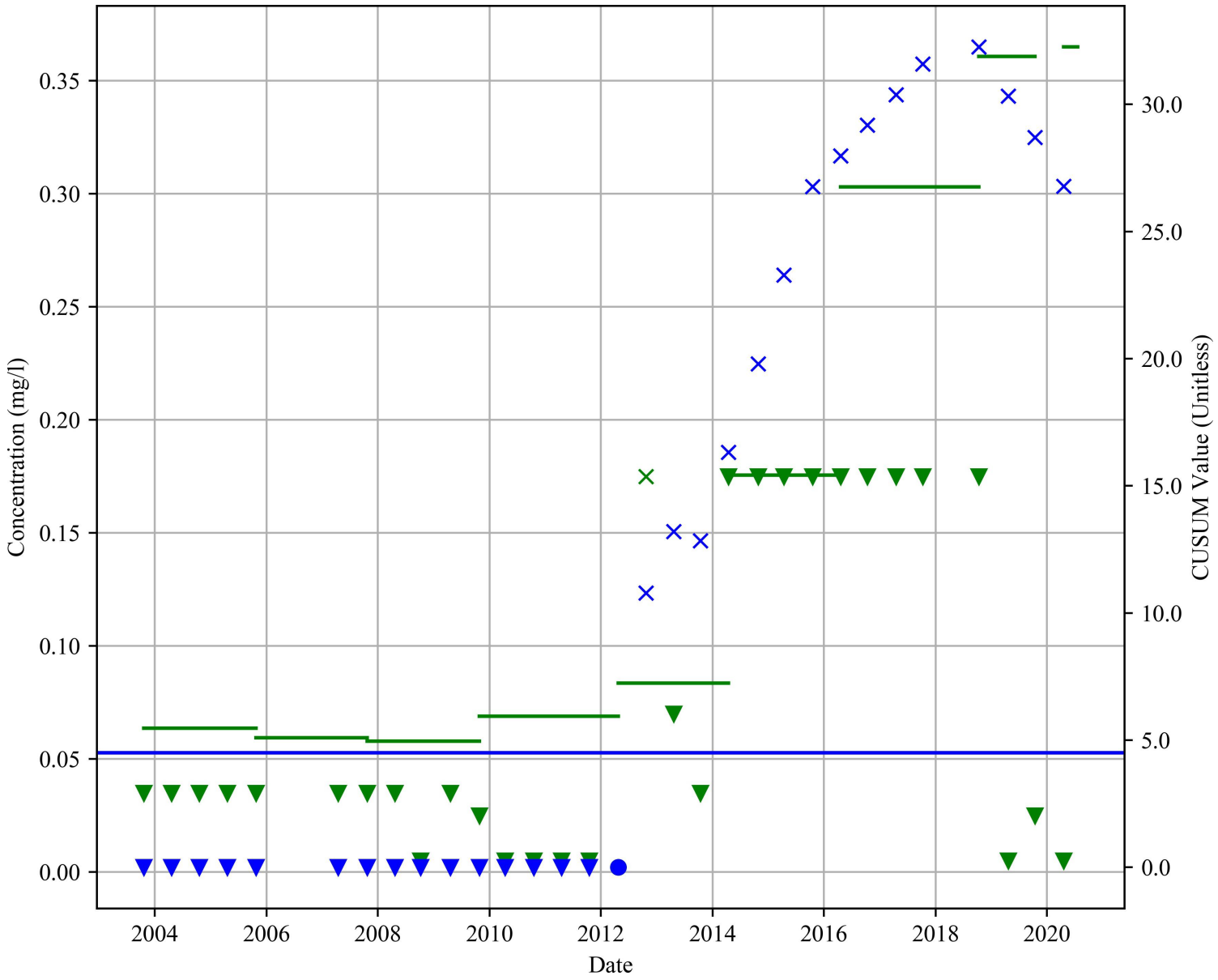
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-2:
Control Chart
MW 1A
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

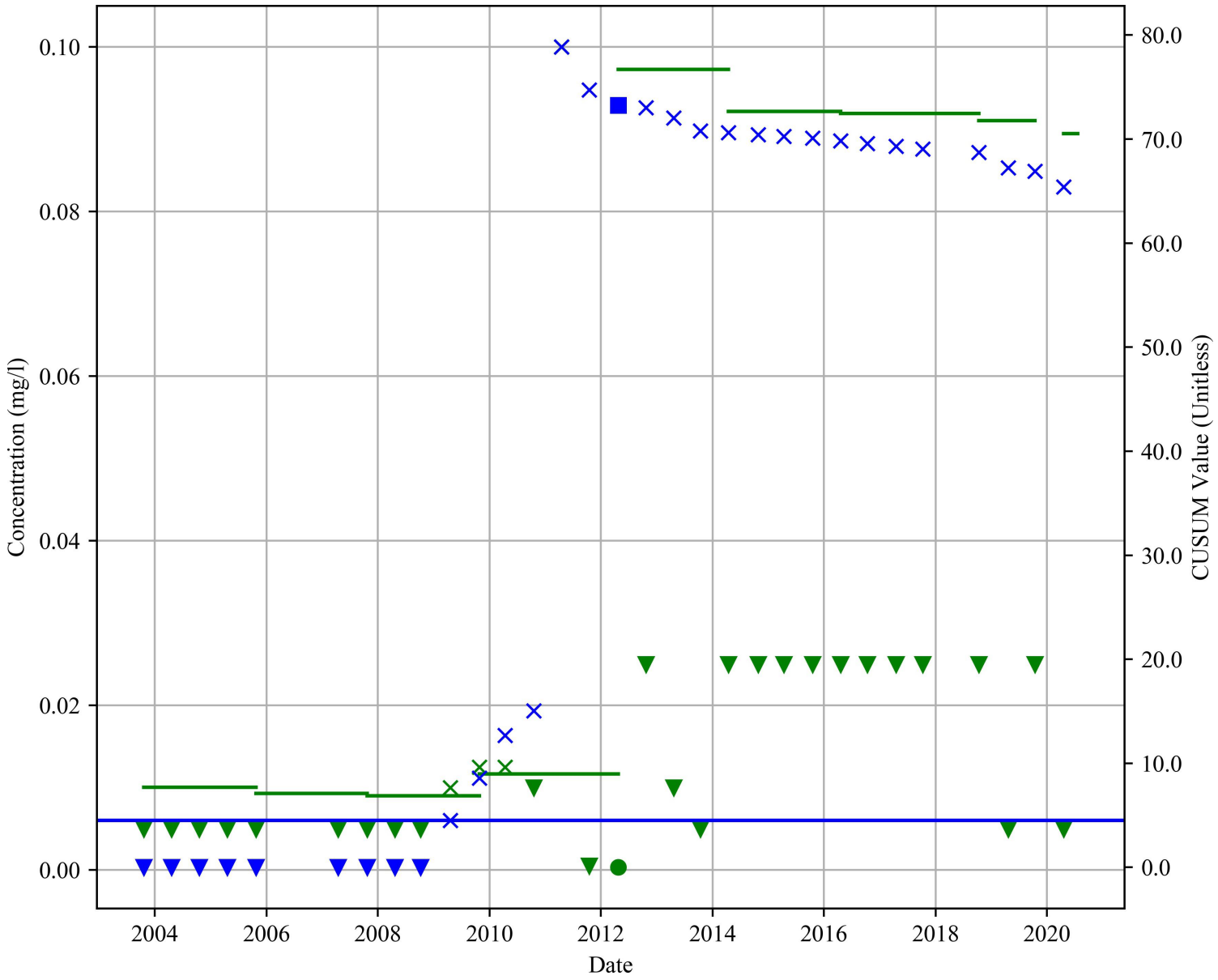
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-3:
Control Chart
MW 1A
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

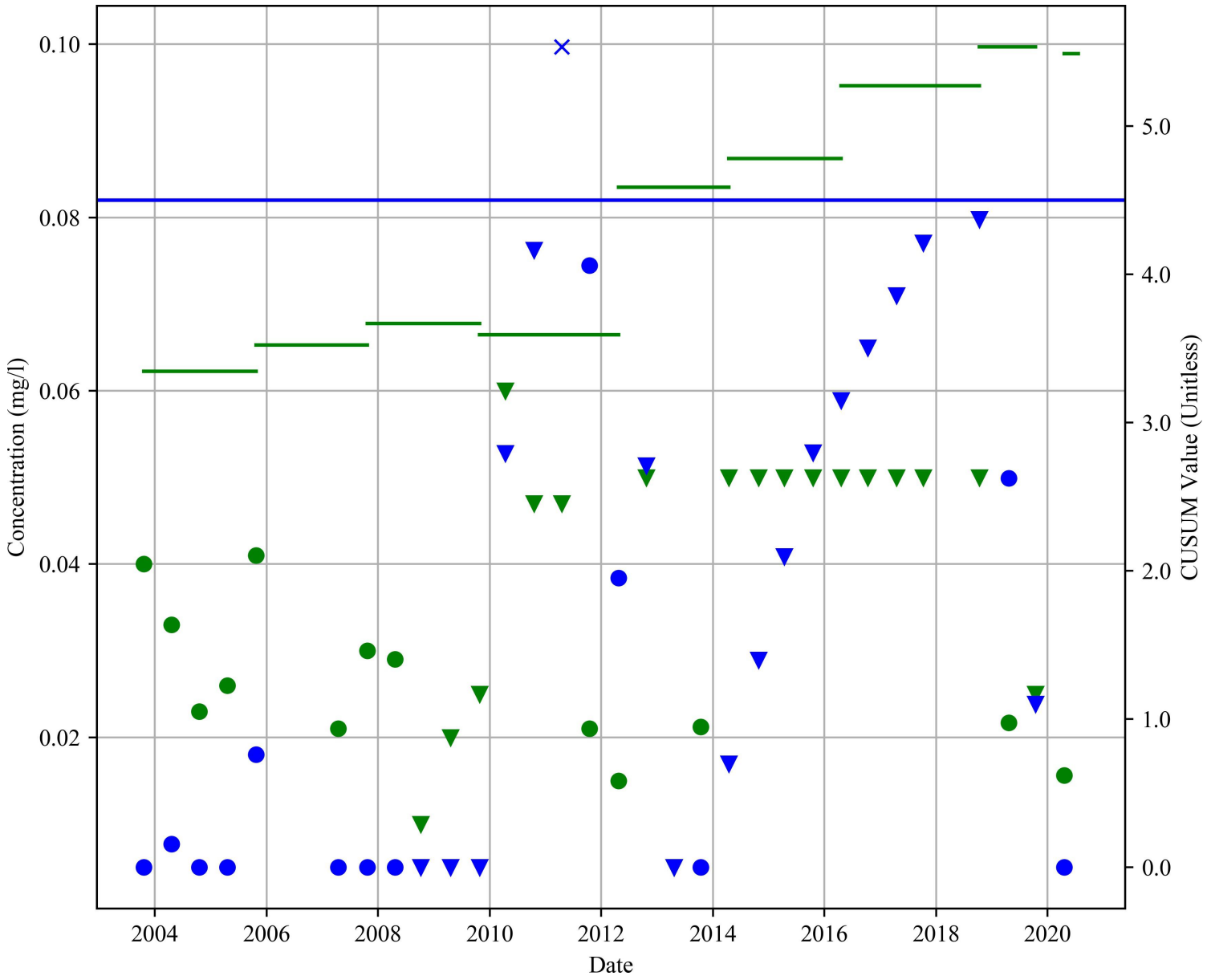
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-4:
Control Chart
MW 1A
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

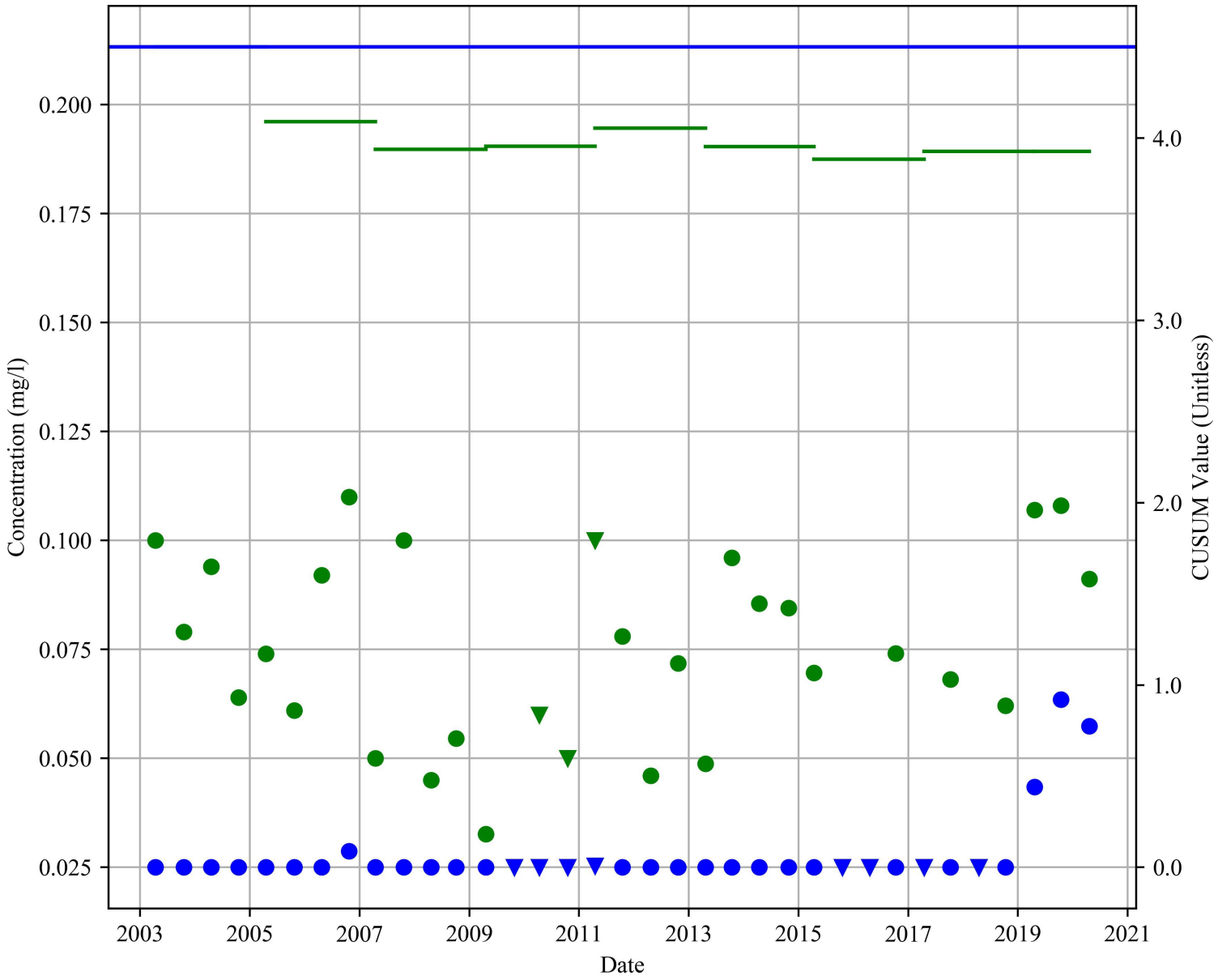
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-5:
Control Chart
MW 1A
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

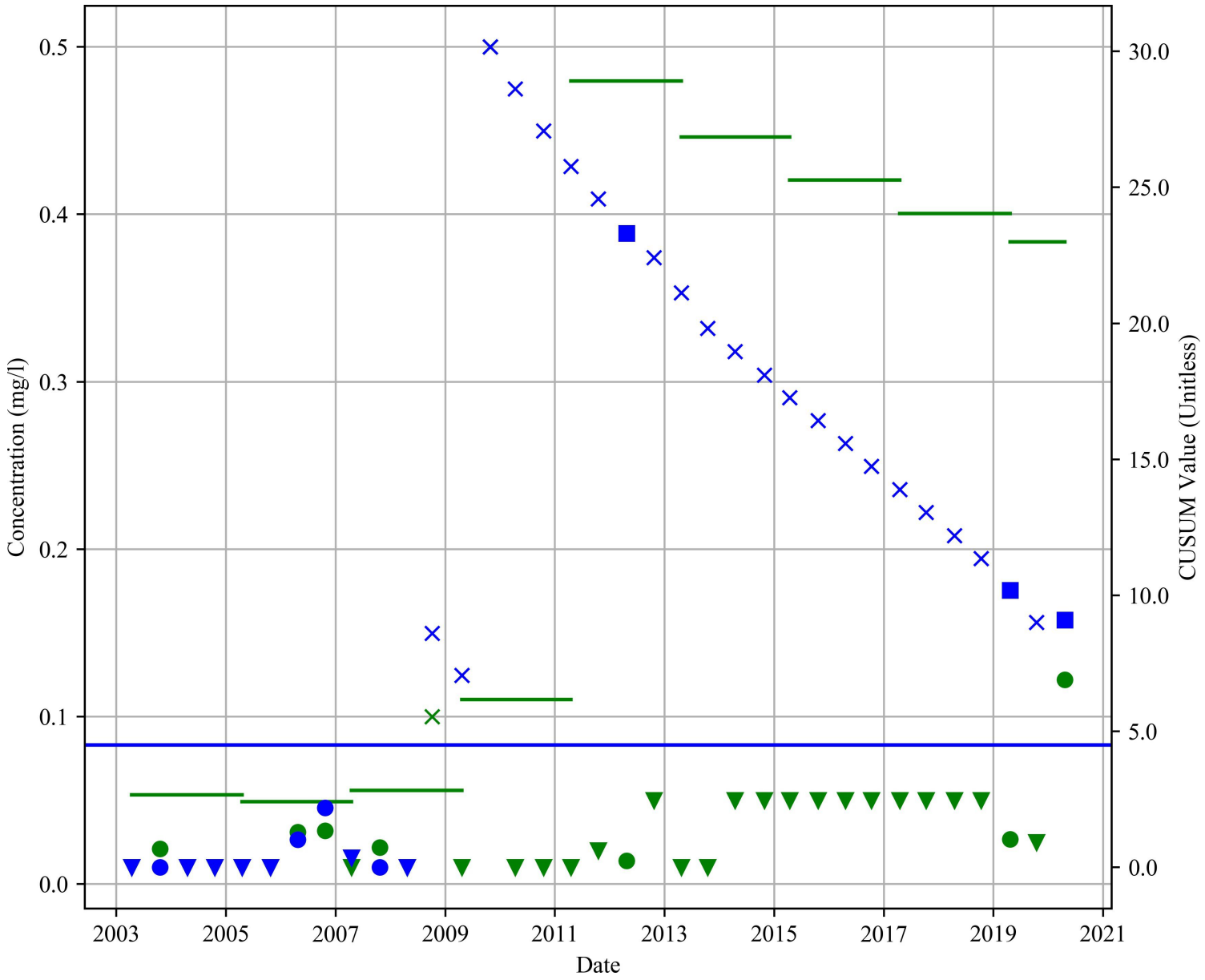
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-6:
Control Chart
MW 1B
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

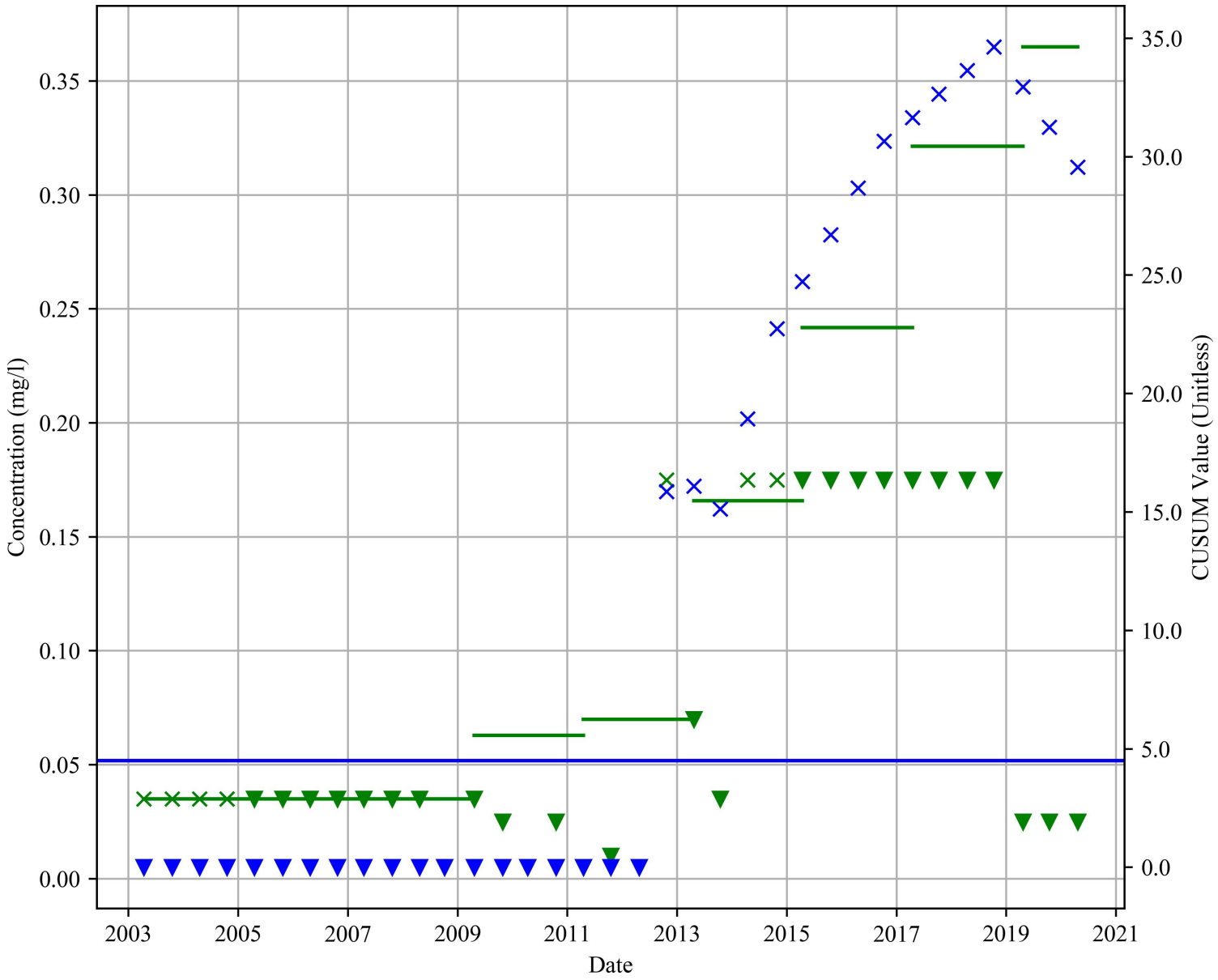
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-7:
Control Chart
MW 1B
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

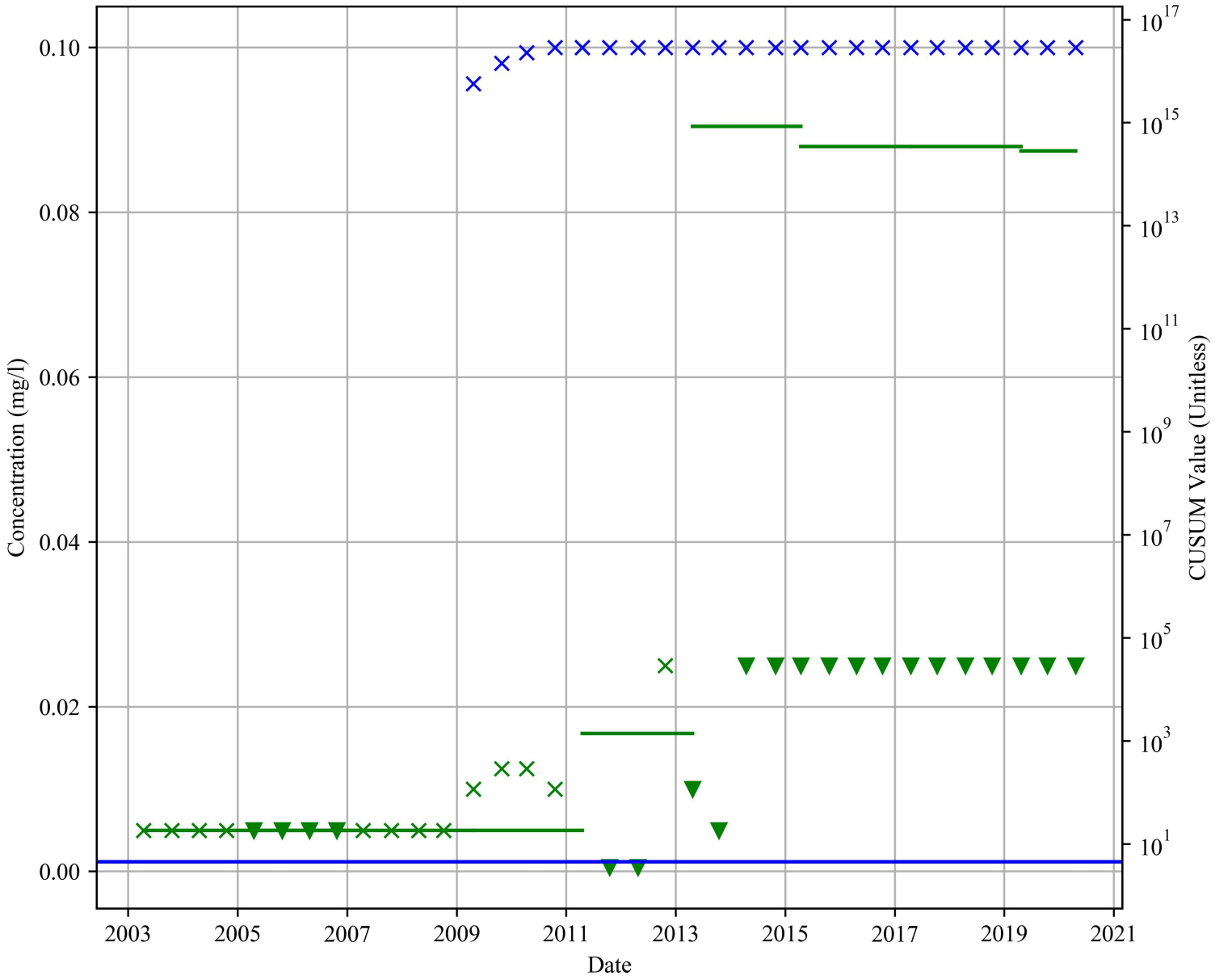
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-8:
Control Chart
MW 1B
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

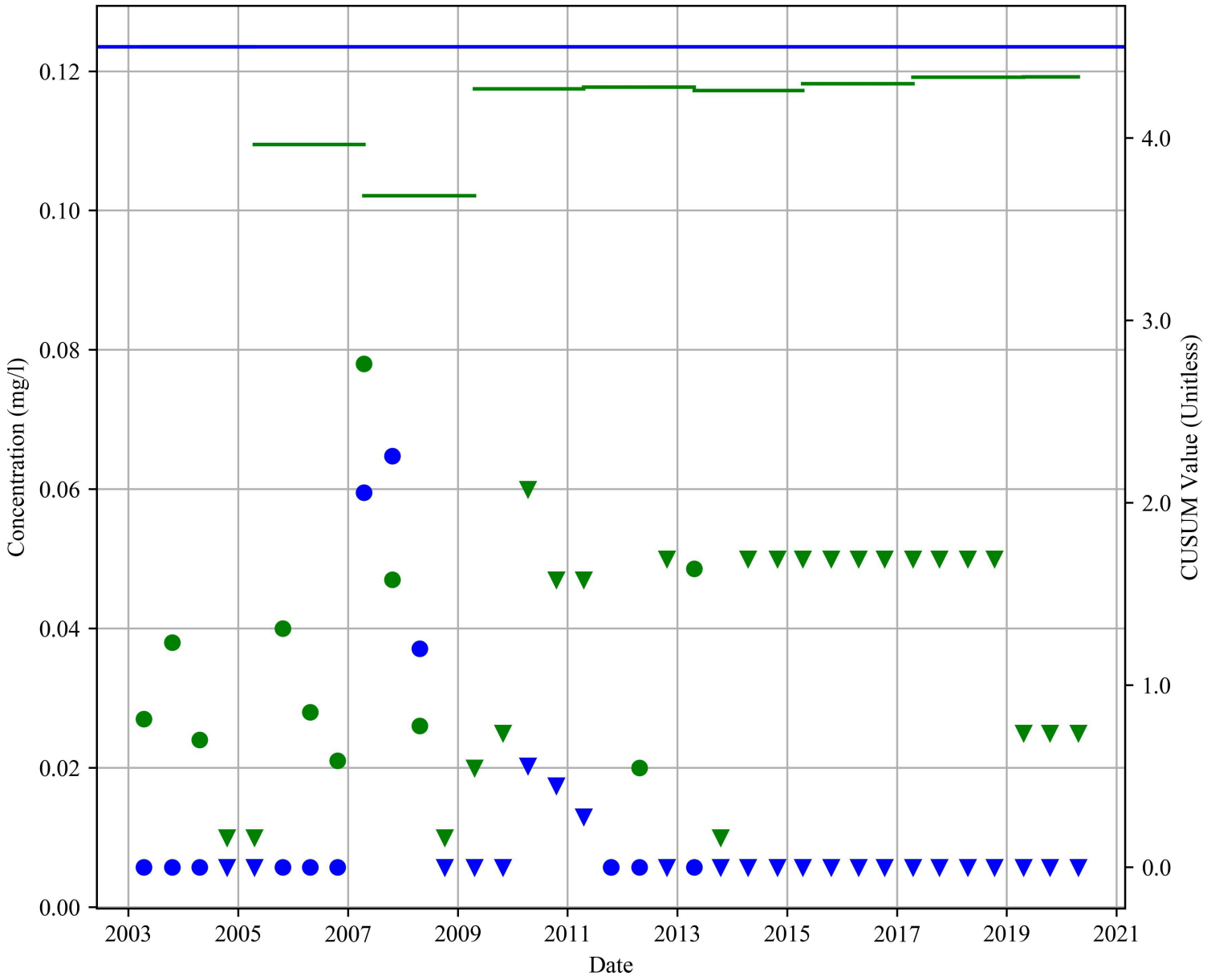
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-9:
Control Chart
MW 1B
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

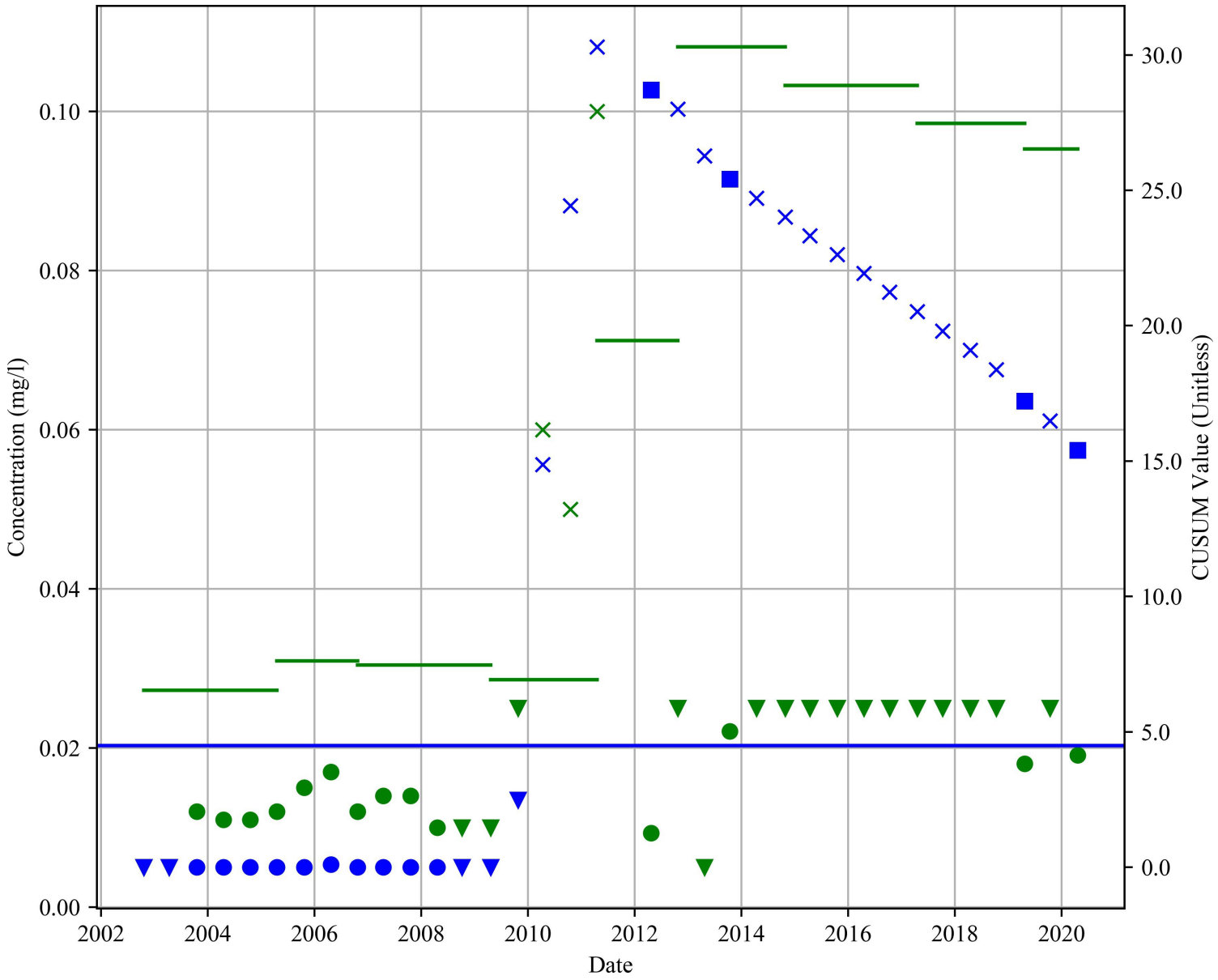
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-10:
Control Chart
MW 1B
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

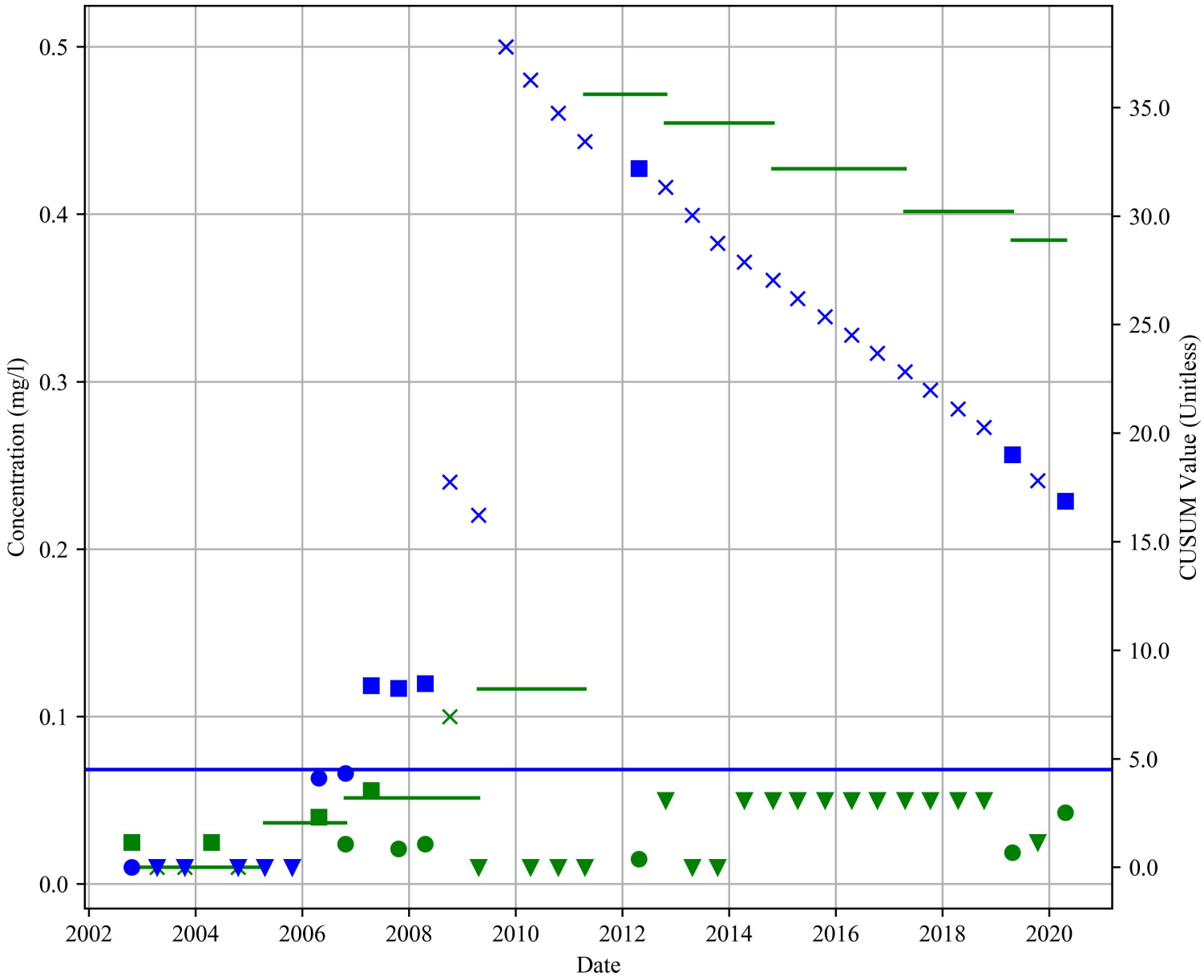
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-11:
Control Chart
MW 2A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

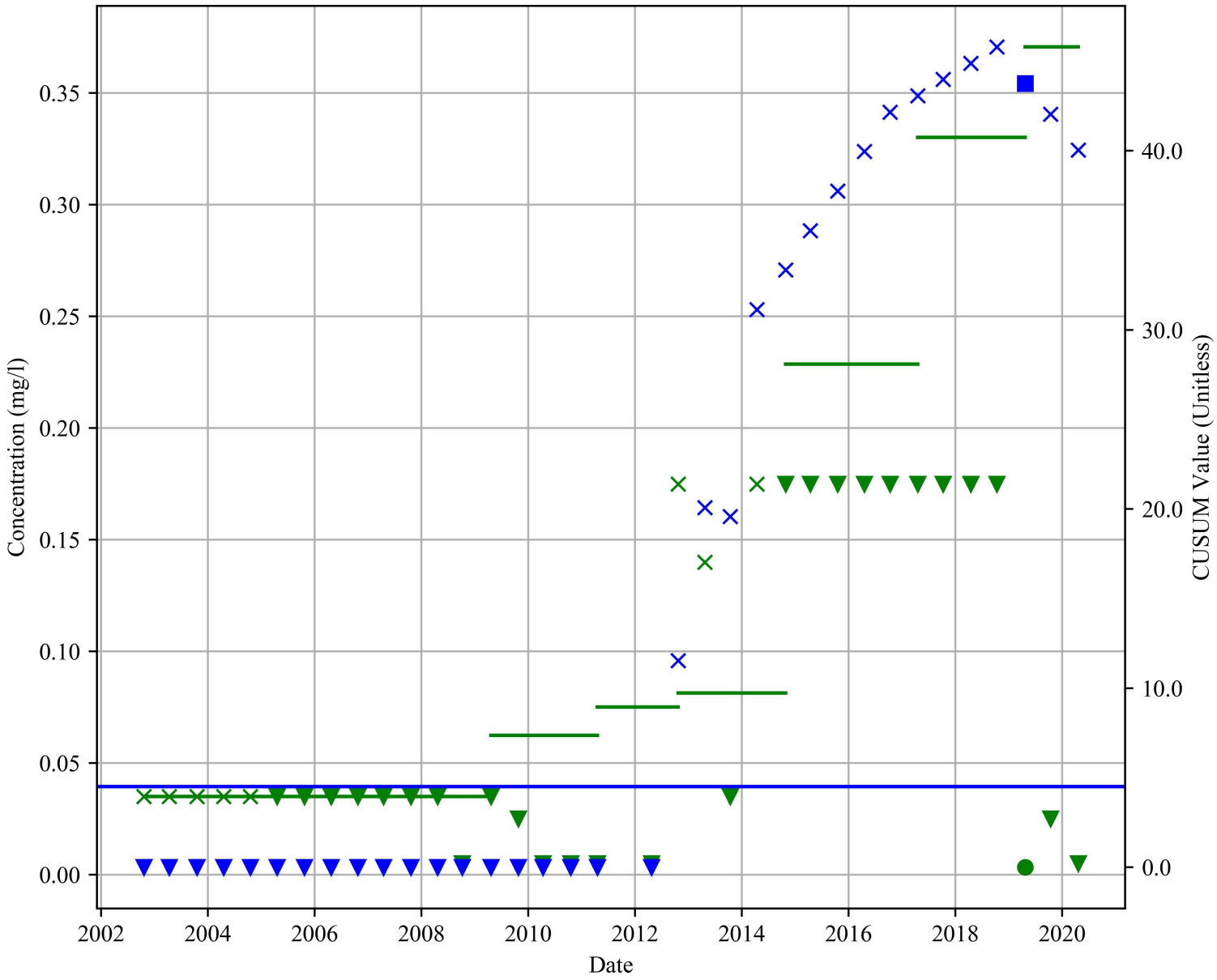
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-12:
Control Chart
MW 2A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

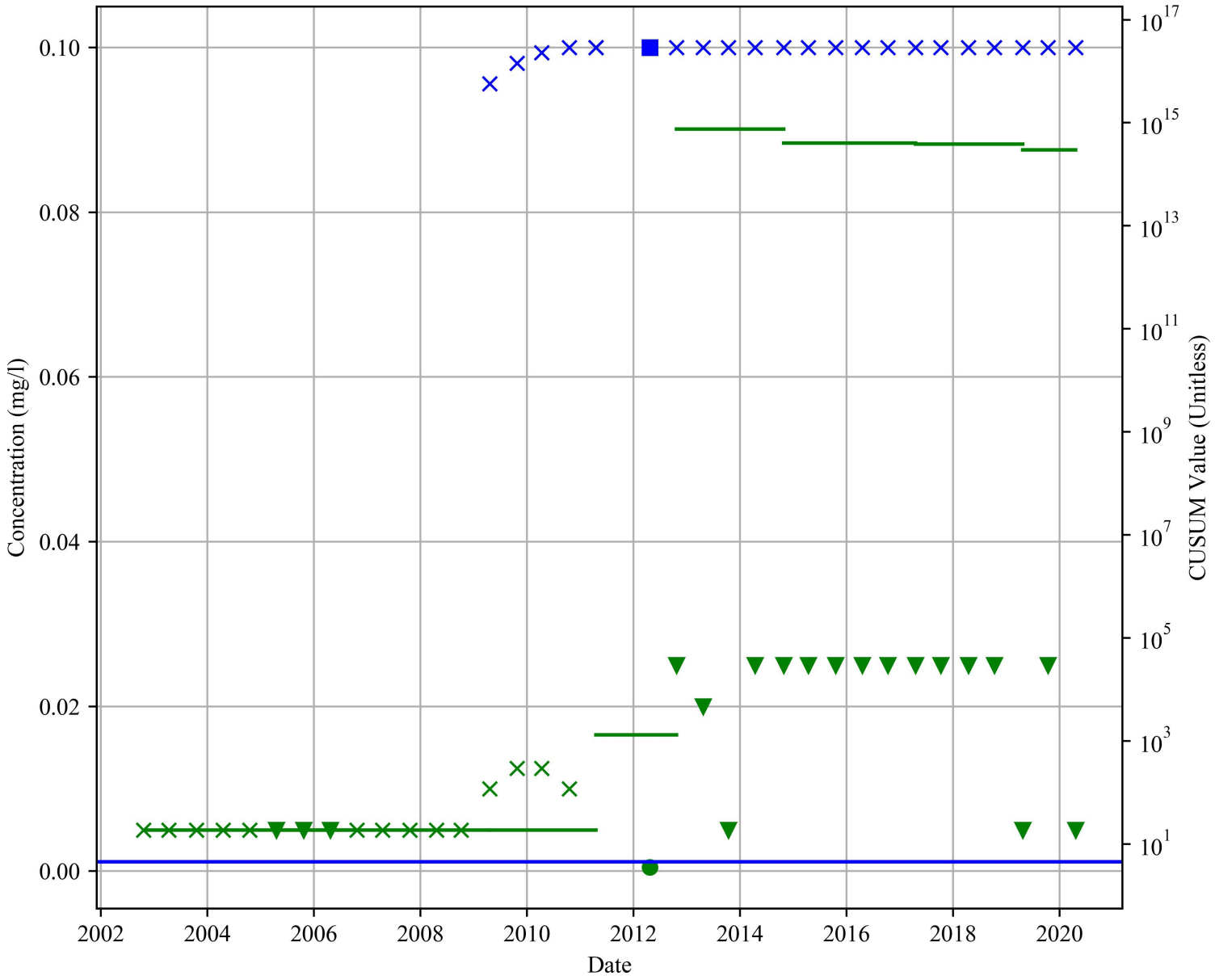
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-13:
Control Chart
MW 2A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

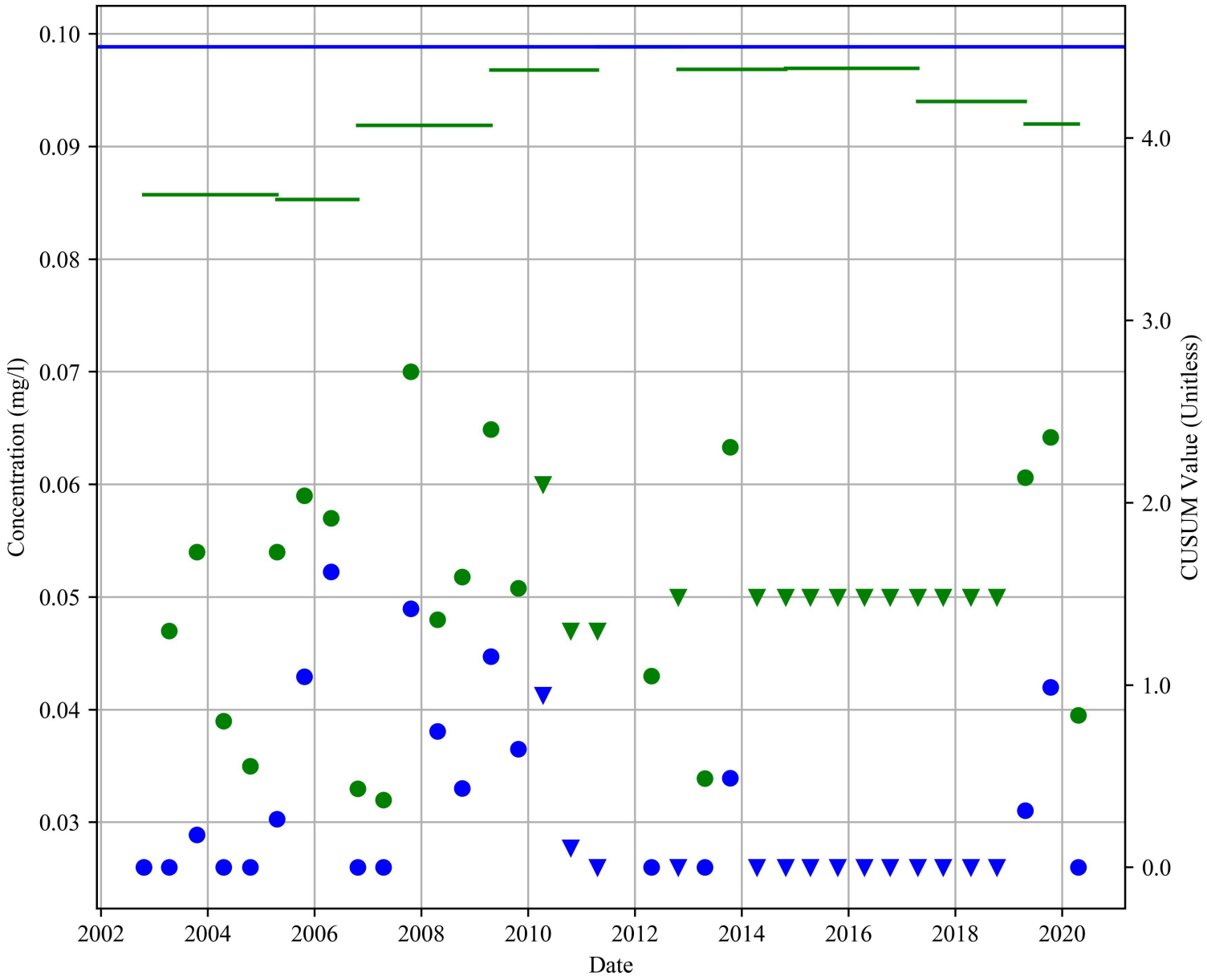
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-14:
Control Chart
MW 2A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

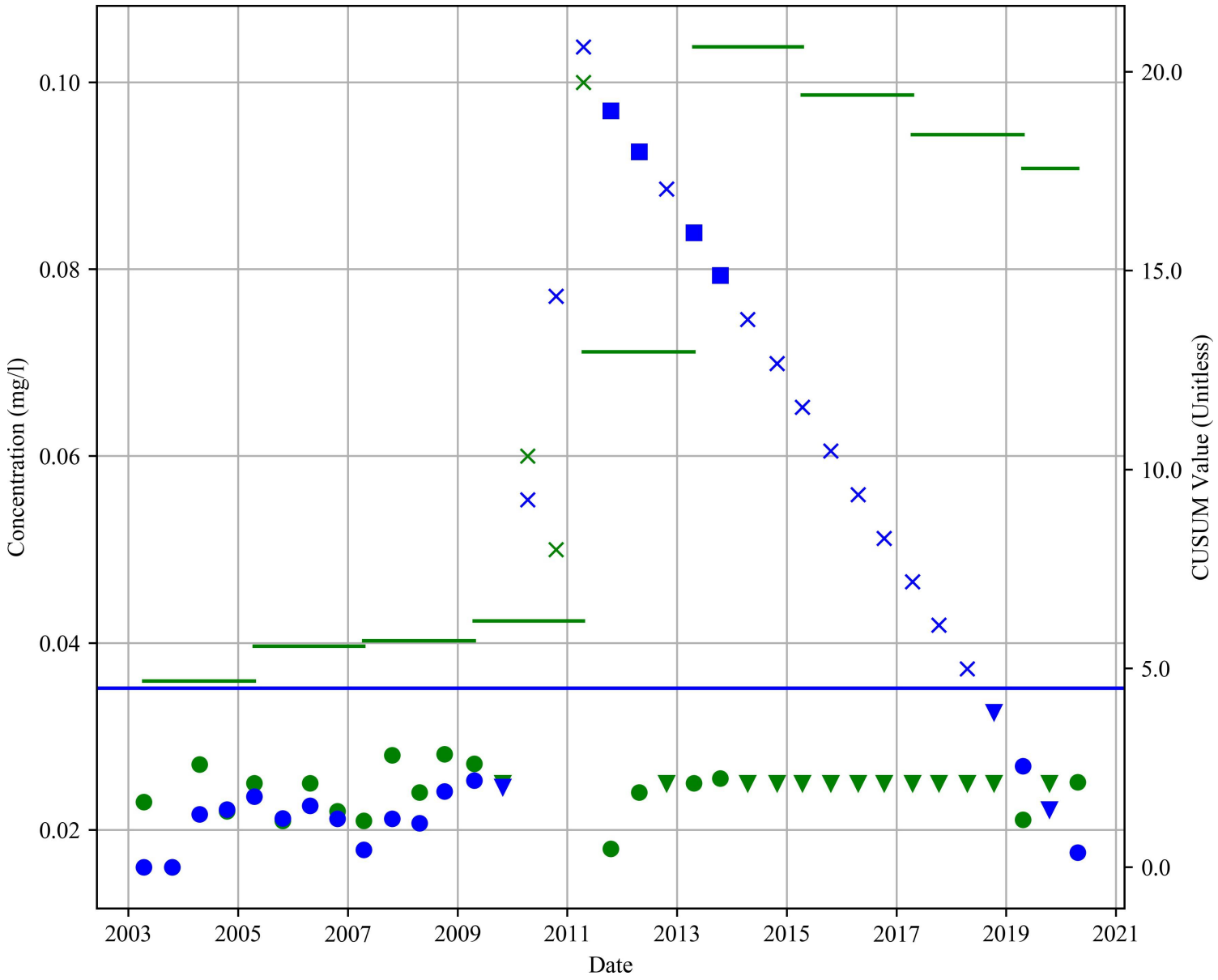
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-15:
Control Chart
MW 2A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

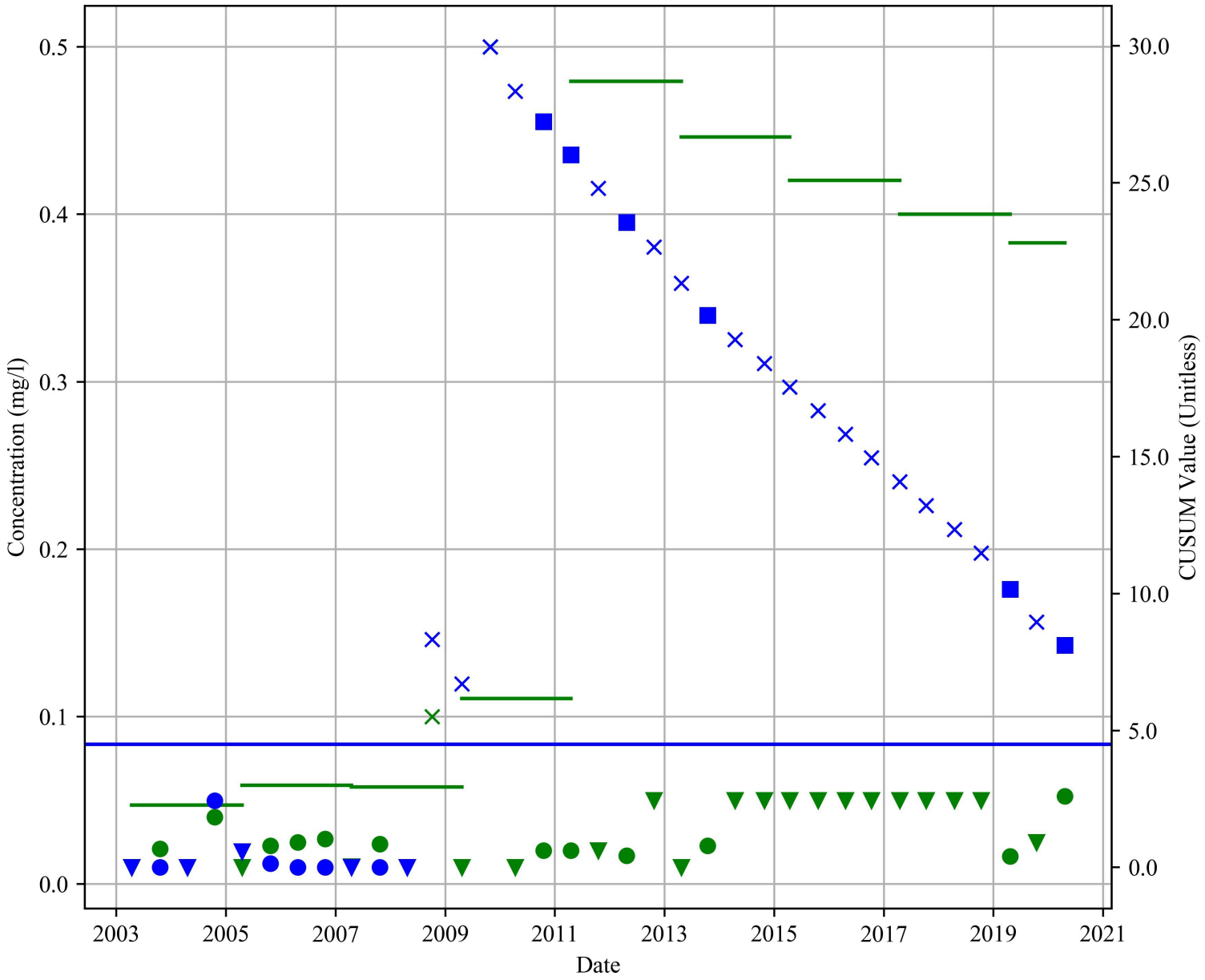
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-16:
Control Chart
MW 2B
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

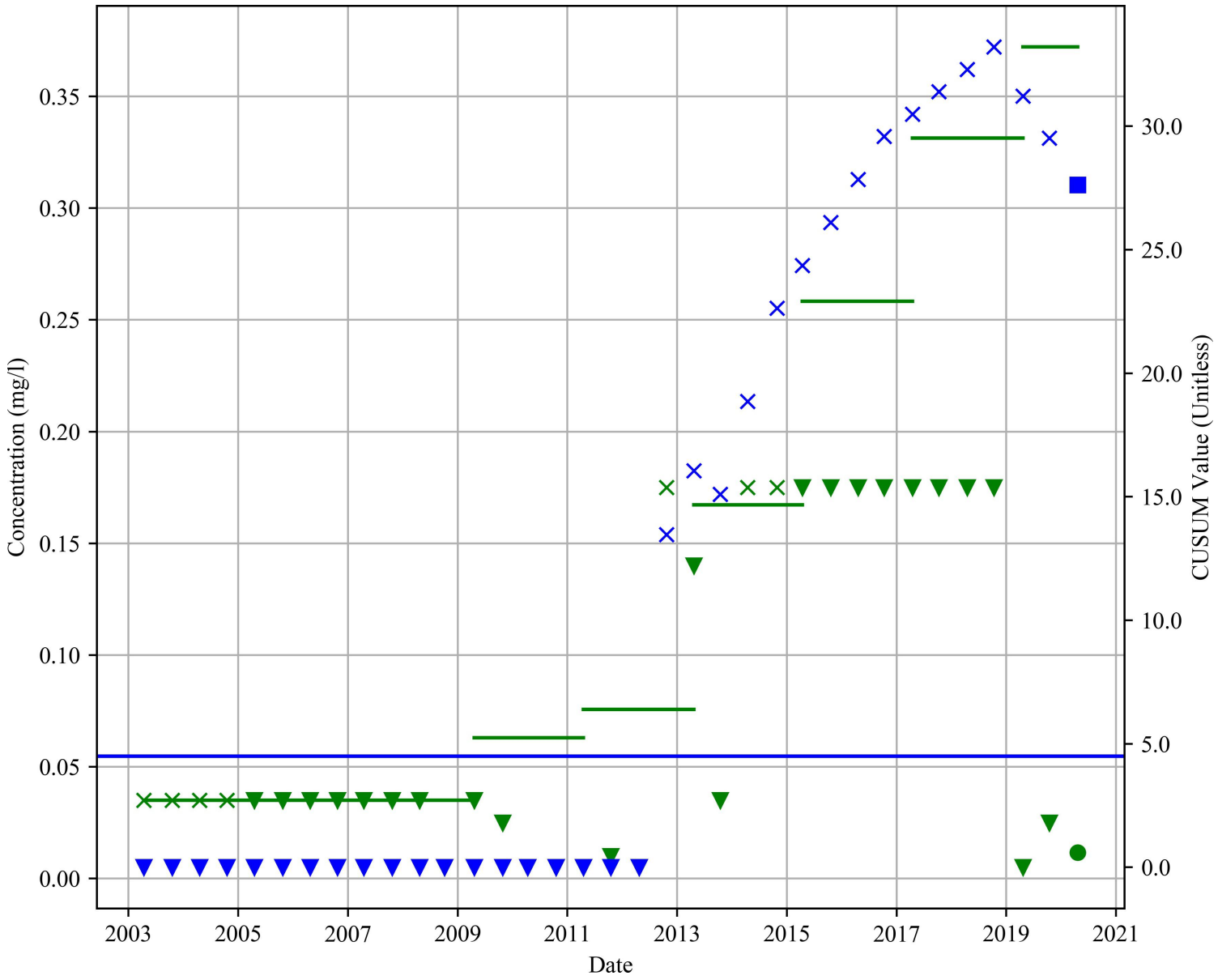
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-17:
Control Chart
MW 2B
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

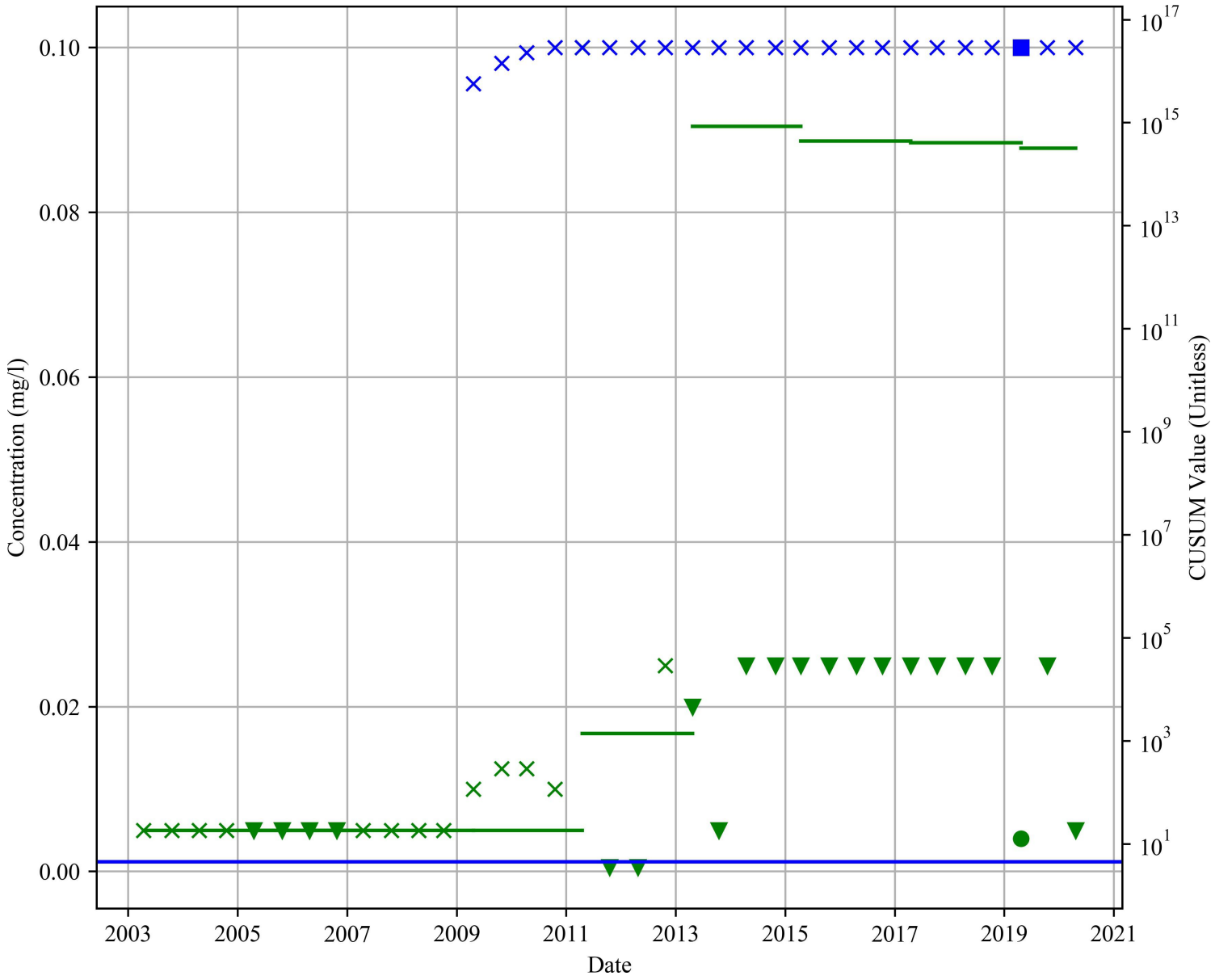
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-18:
Control Chart
MW 2B
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

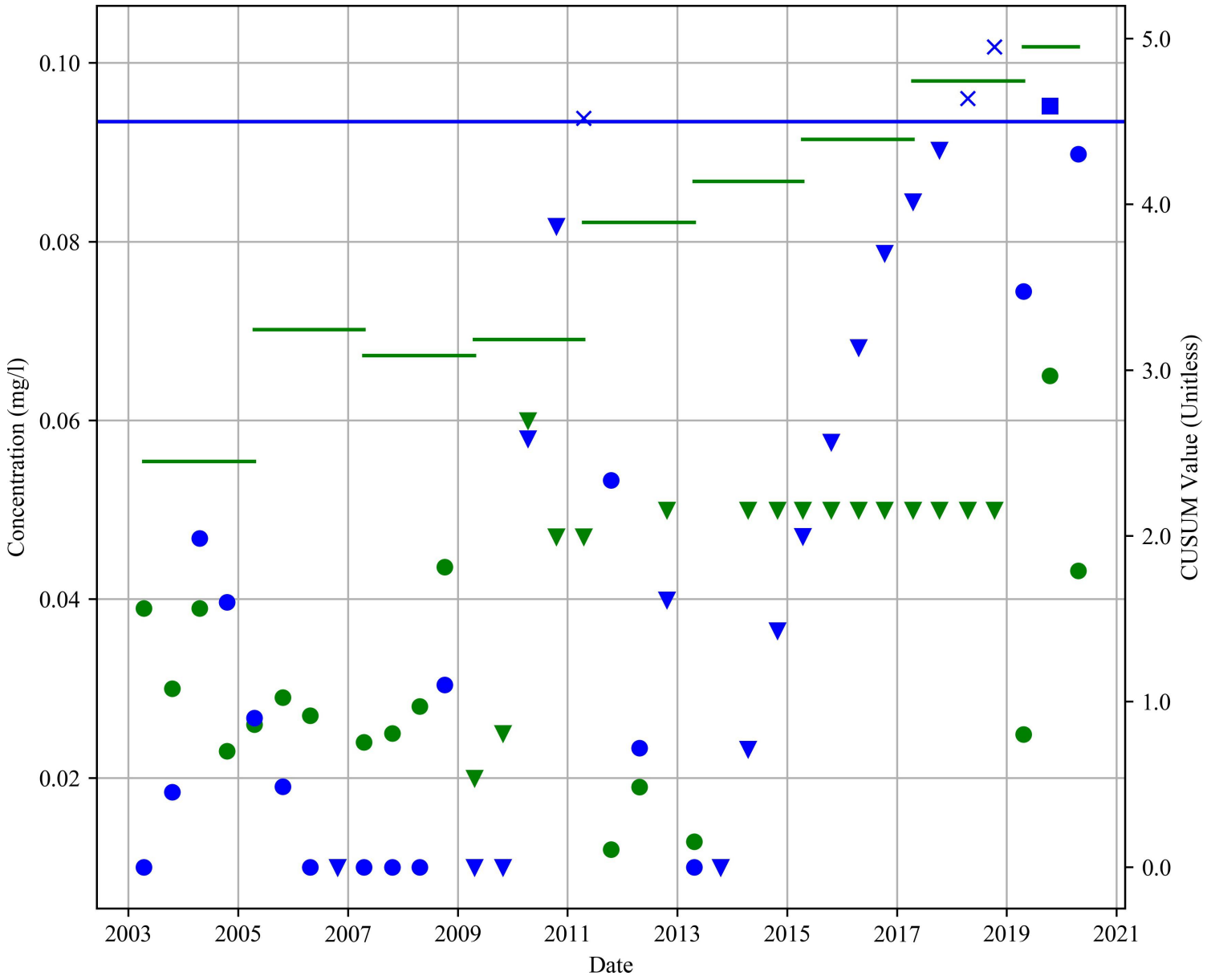
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-19:
Control Chart
MW 2B
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

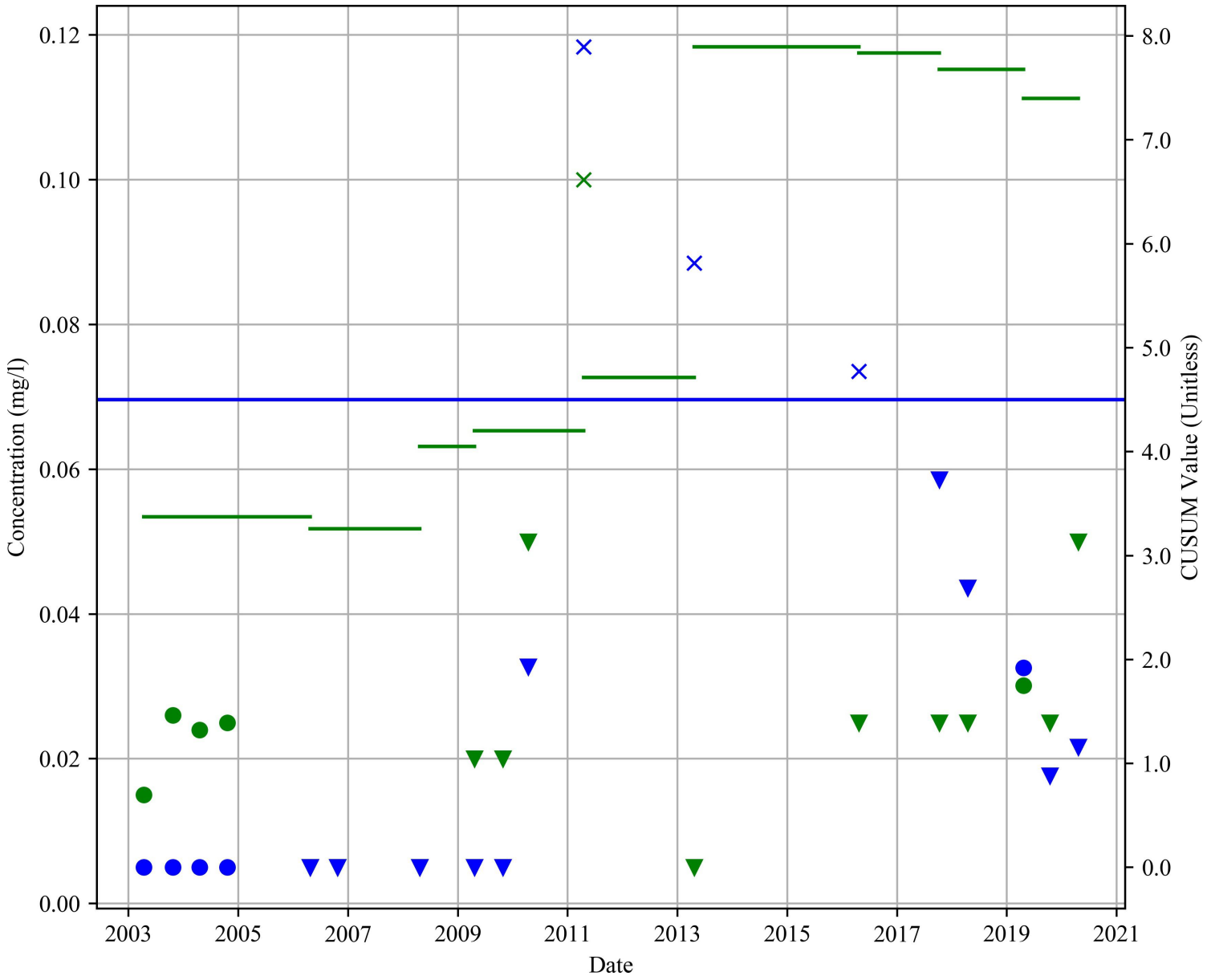
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-20:
Control Chart
MW 2B
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

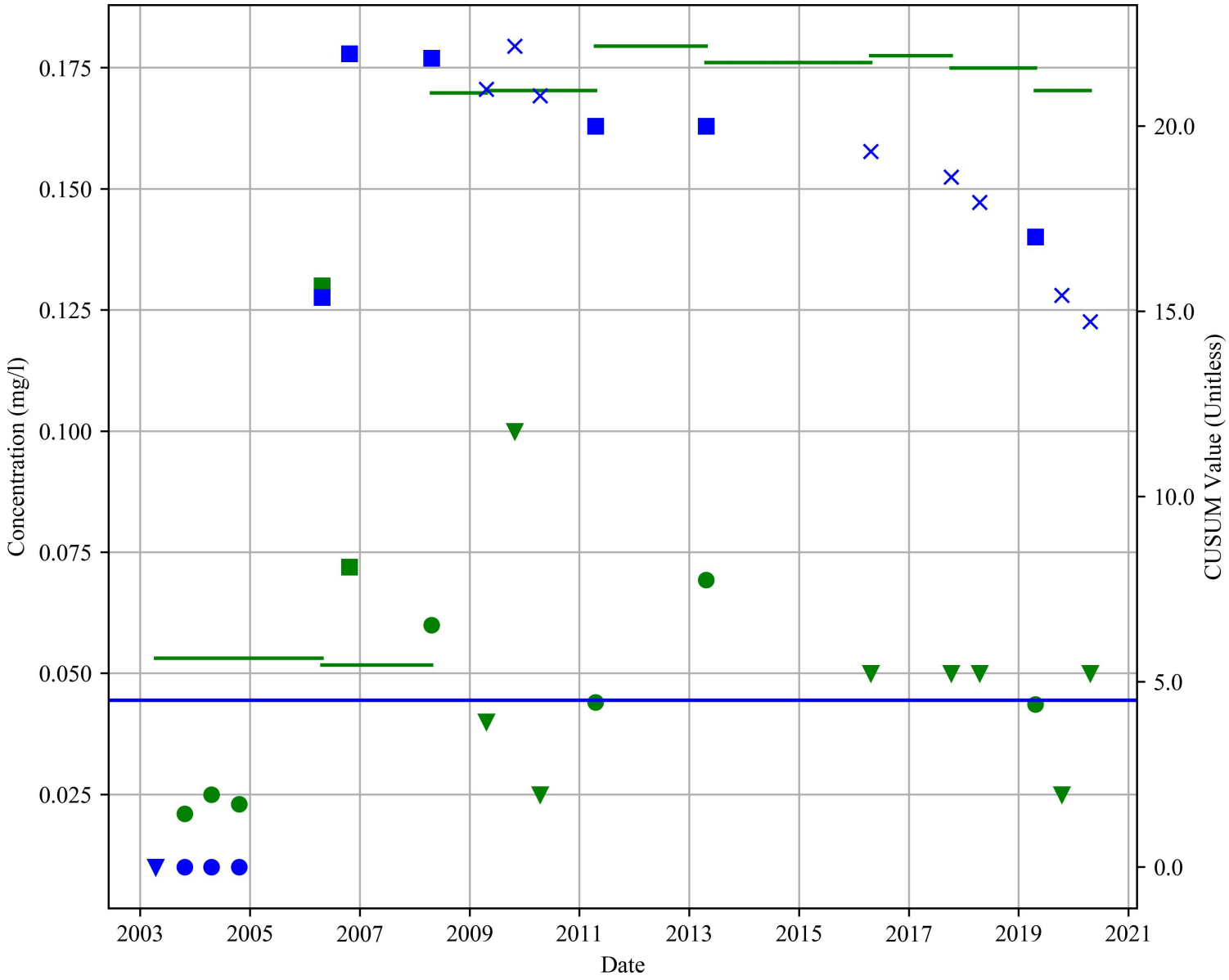
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-21:
Control Chart
MW 3A
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

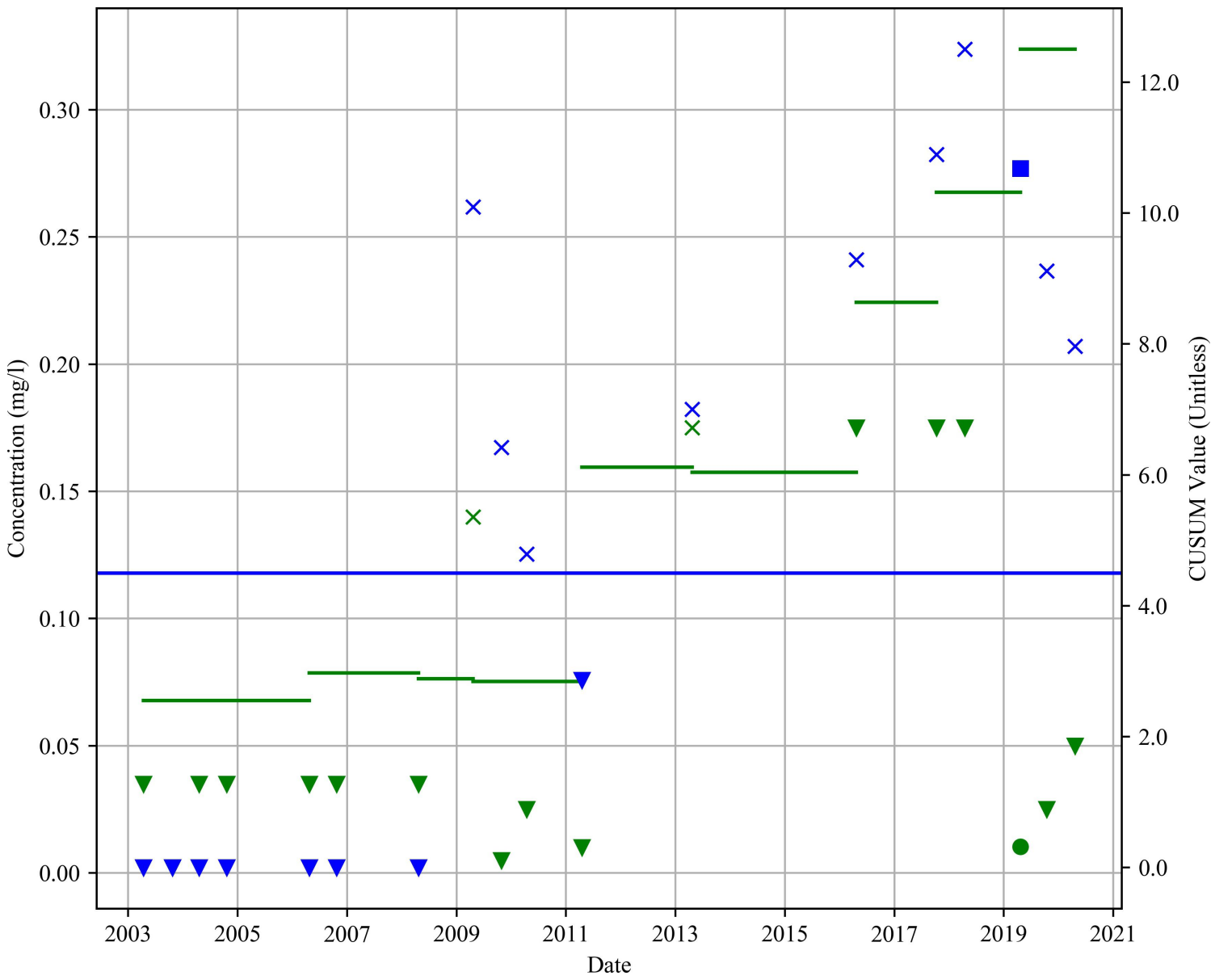
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-22:
Control Chart
MW 3A
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

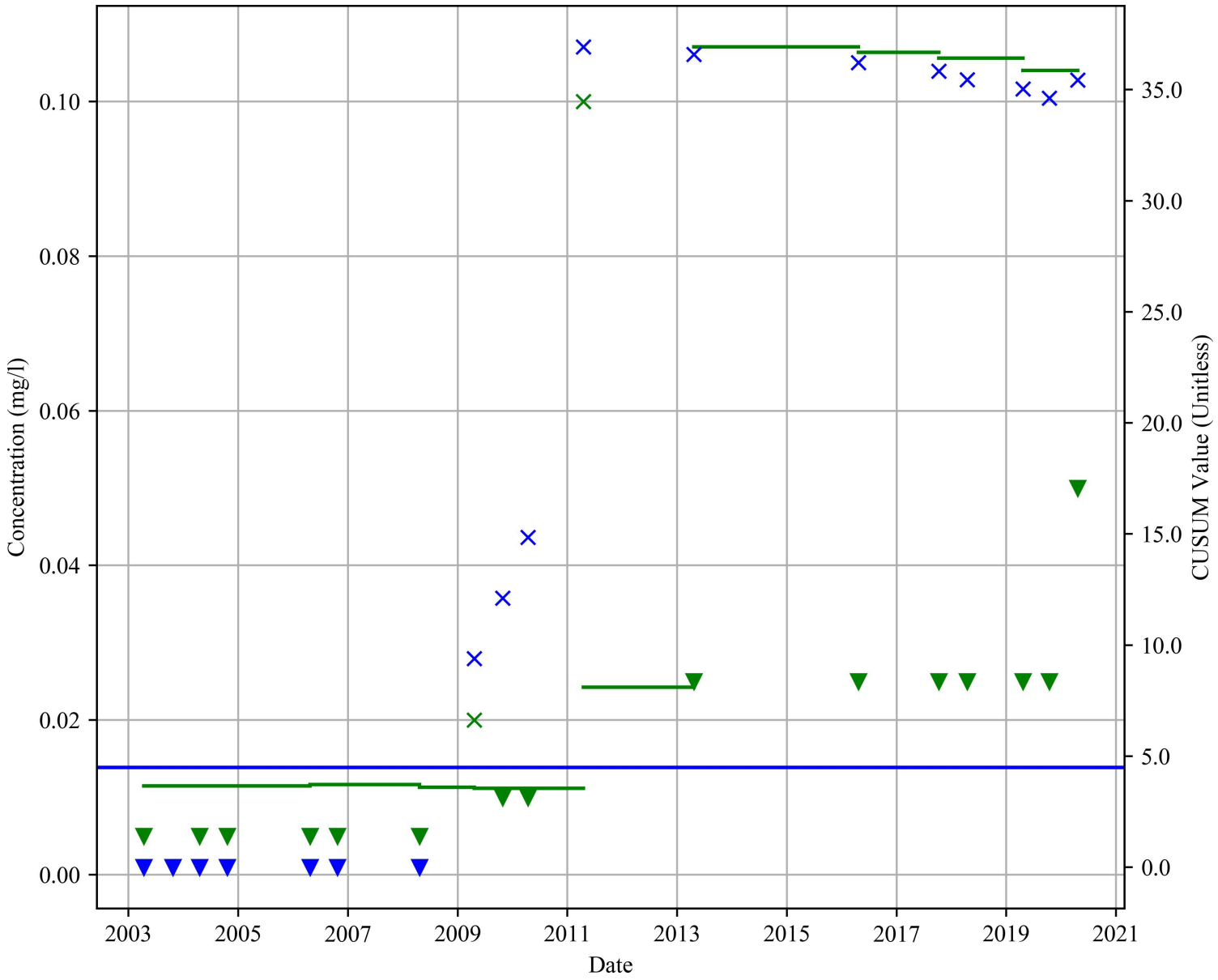
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-23:
Control Chart
MW 3A
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

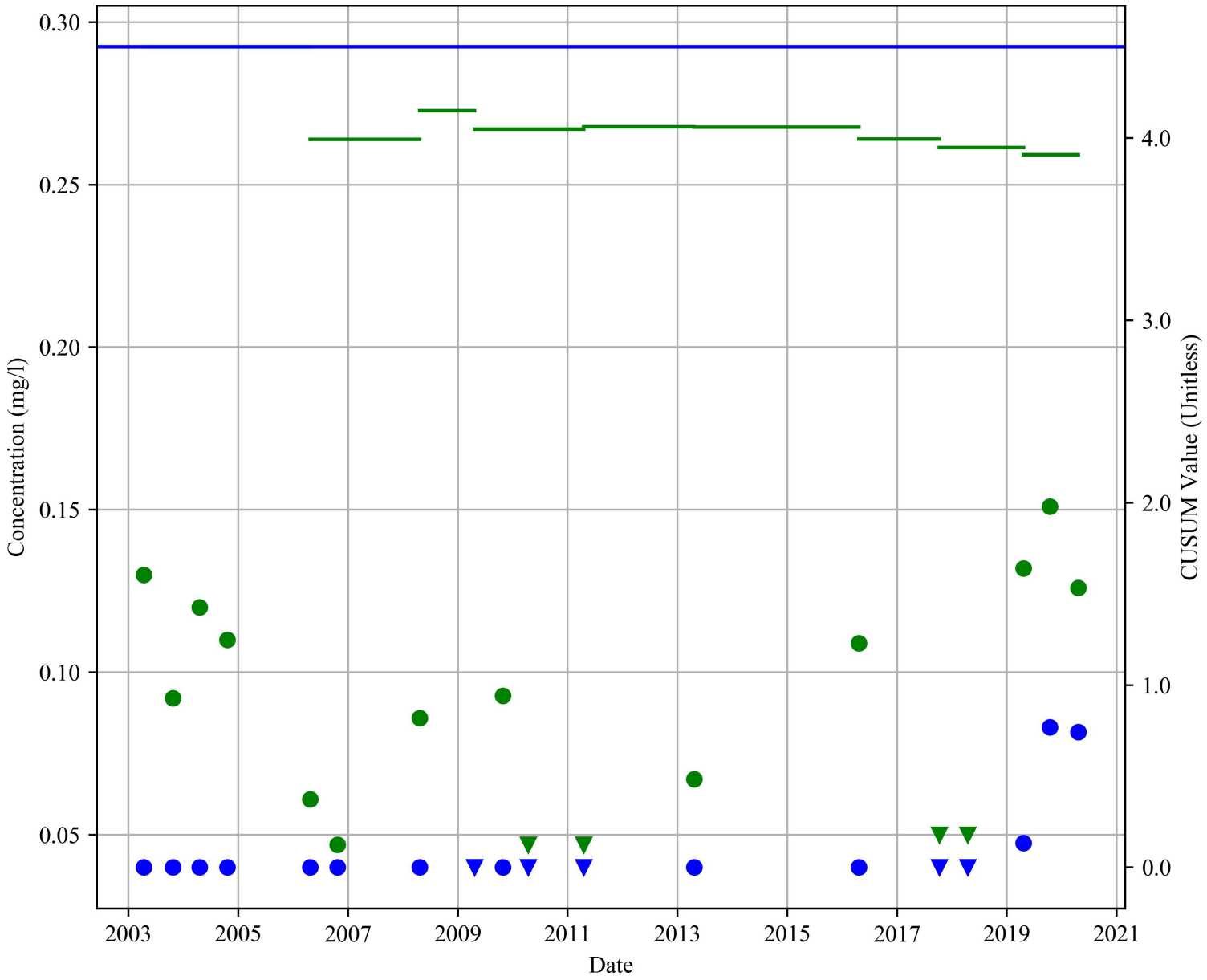
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-24:
Control Chart
MW 3A
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

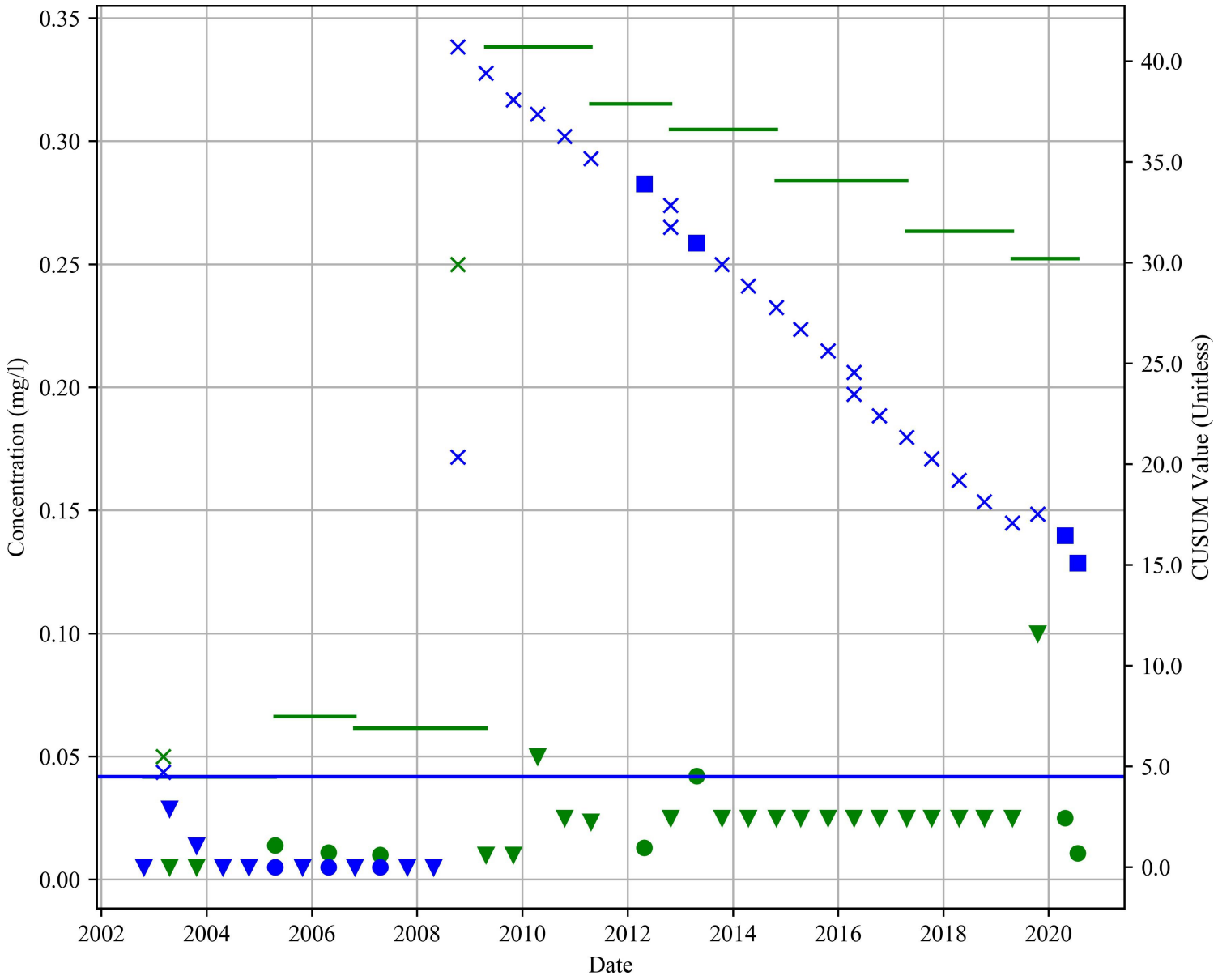
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-25:
Control Chart
MW 3A
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

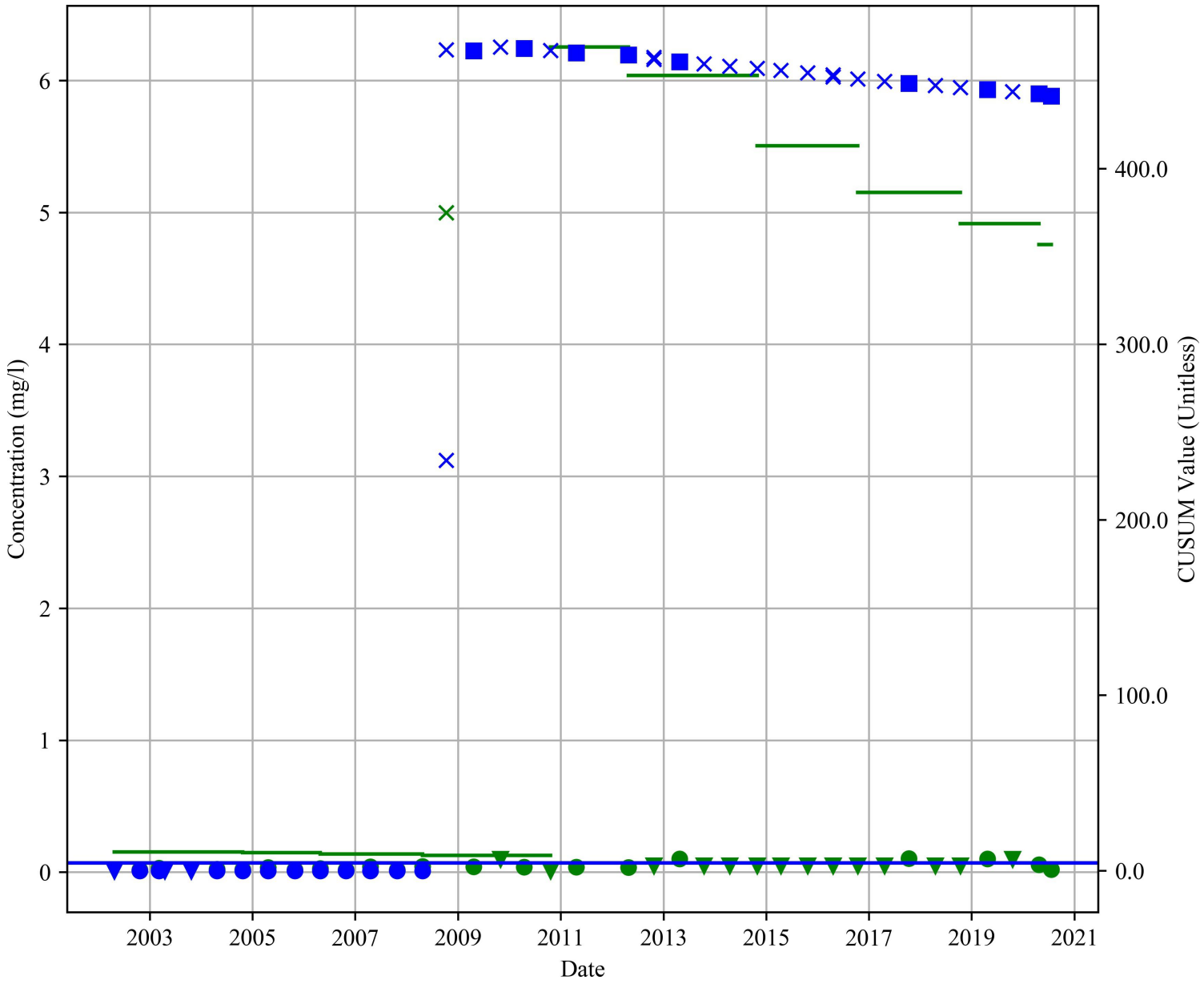
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-26:
Control Chart
MW 4A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

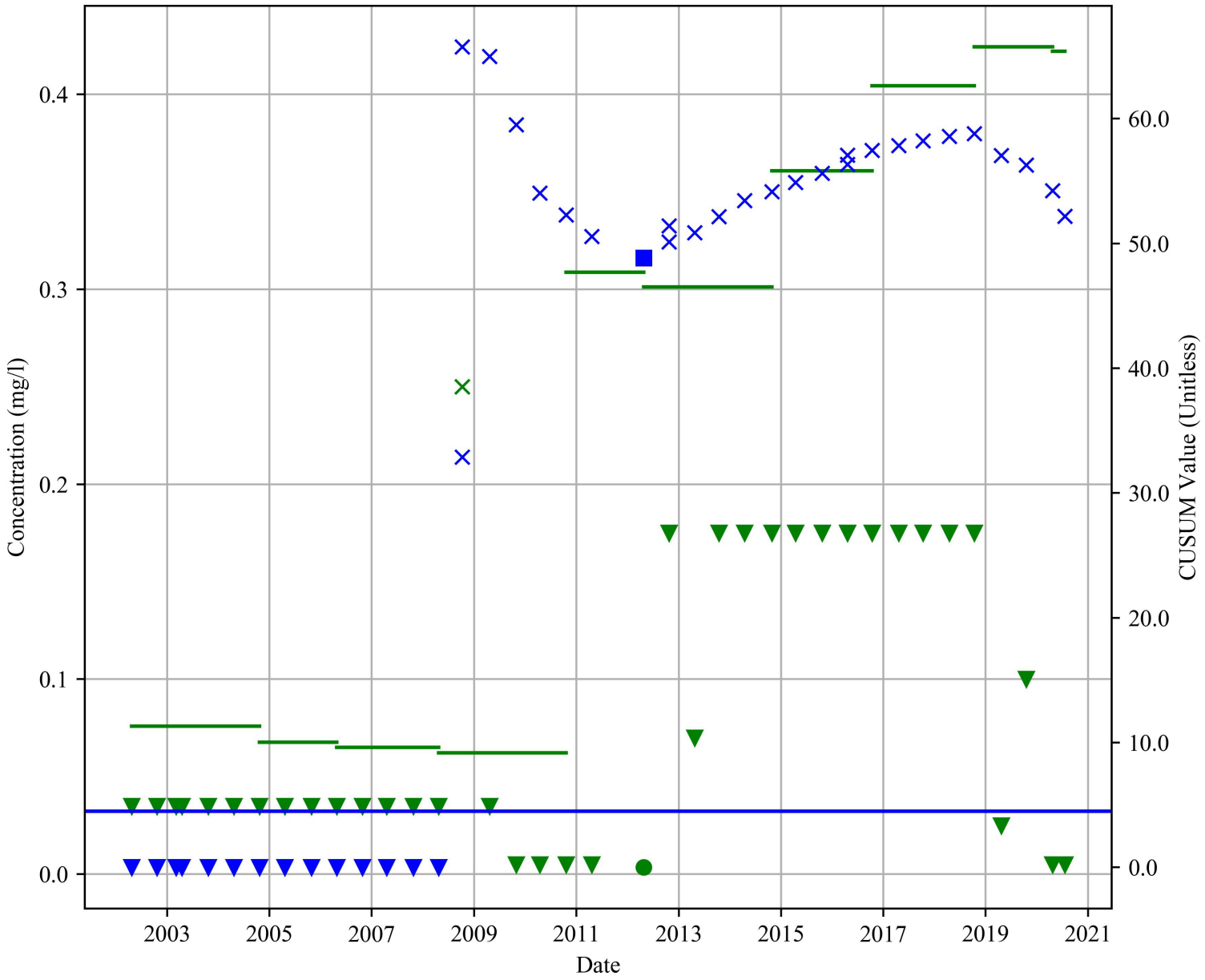
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-27:
Control Chart
MW 4A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

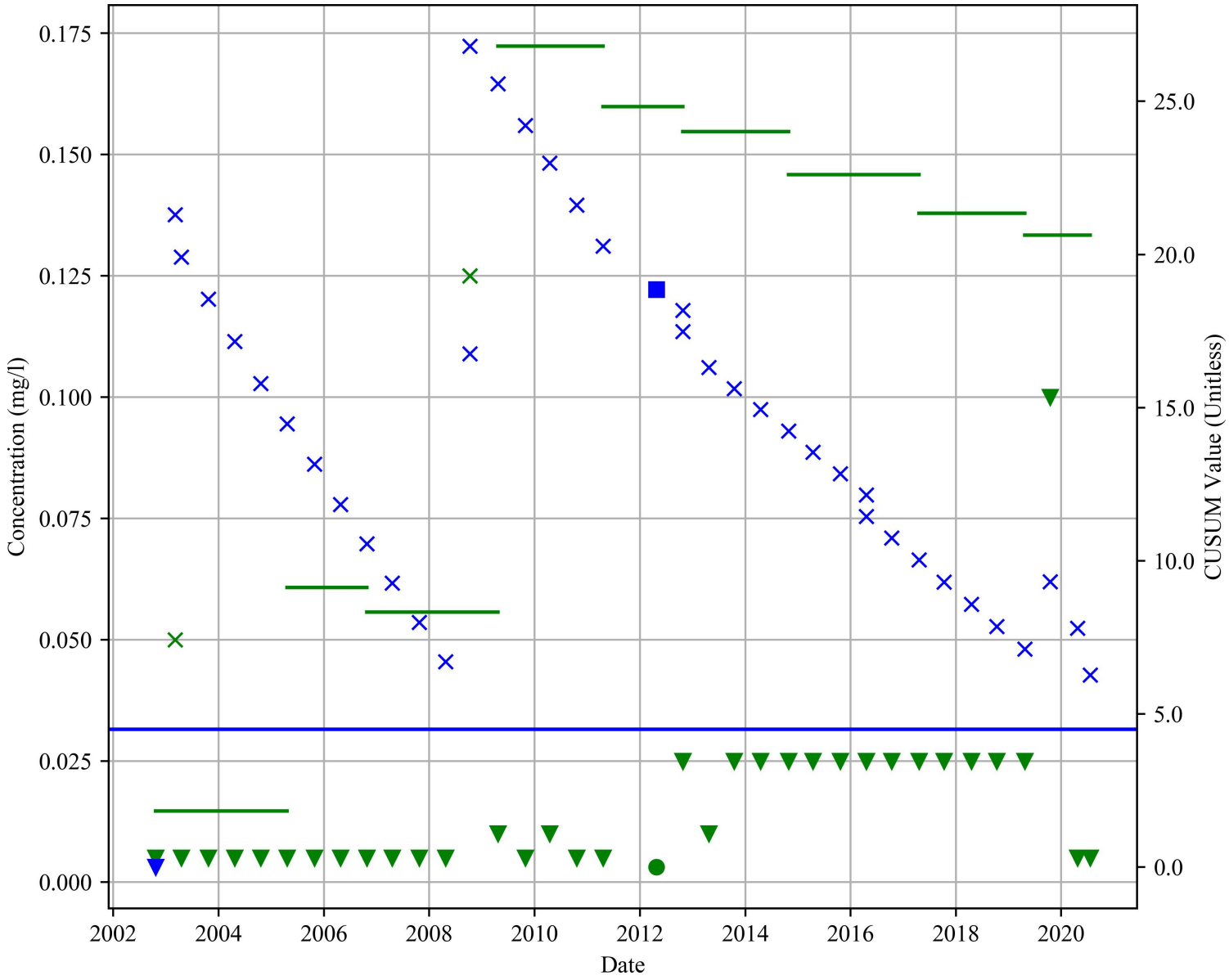
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-28:
Control Chart
MW 4A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

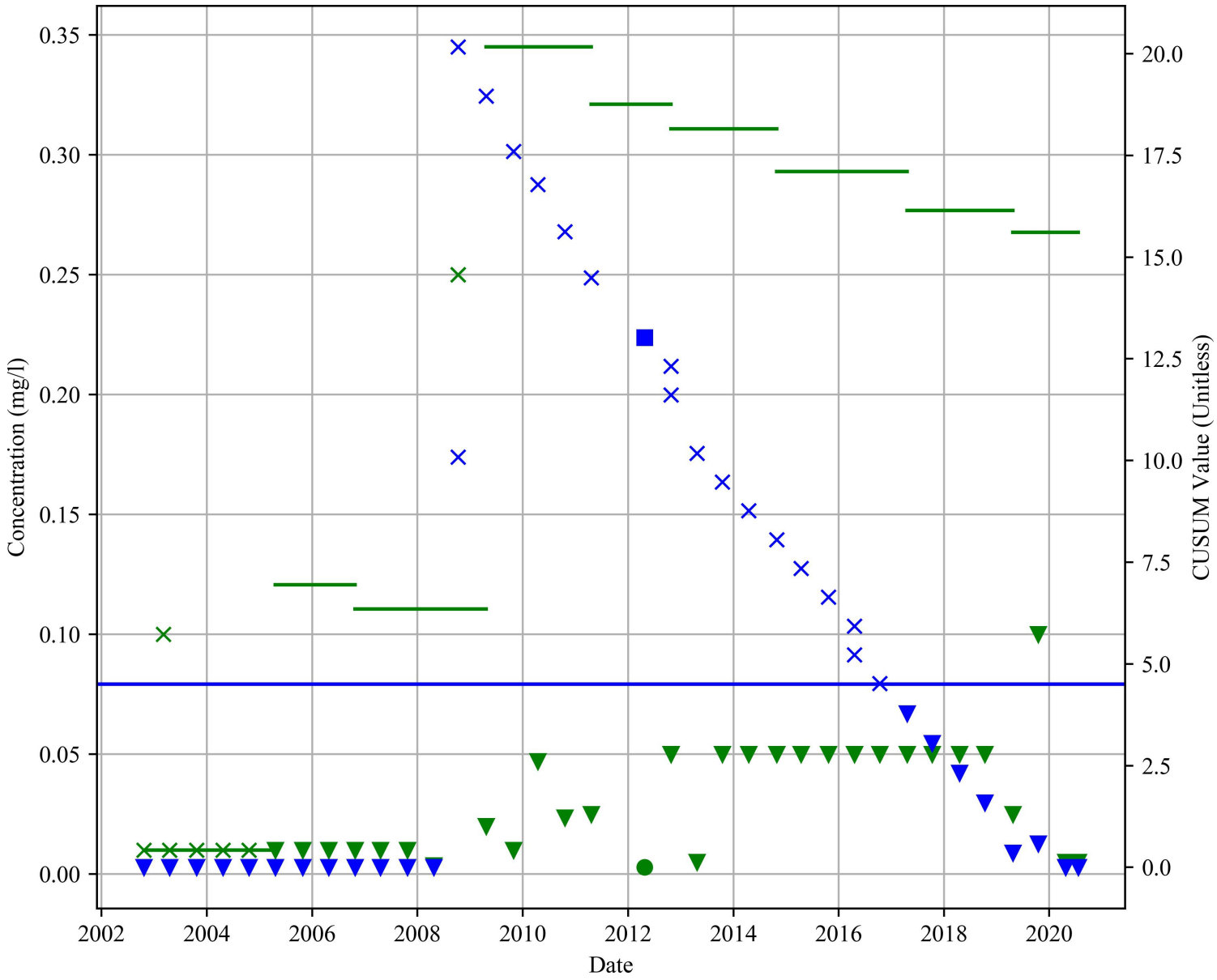
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-29:
Control Chart
MW 4A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

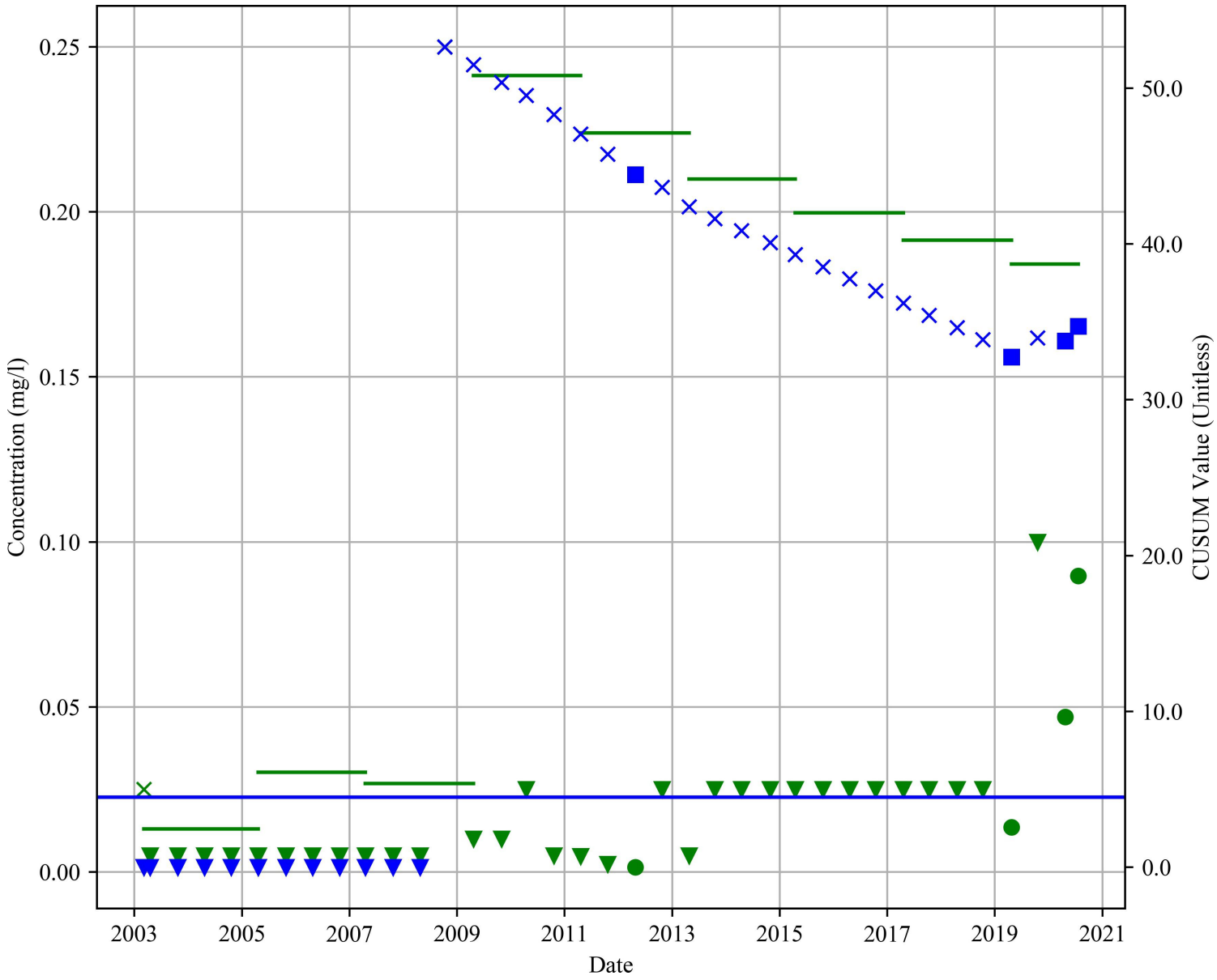
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-30:
Control Chart
MW 4A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

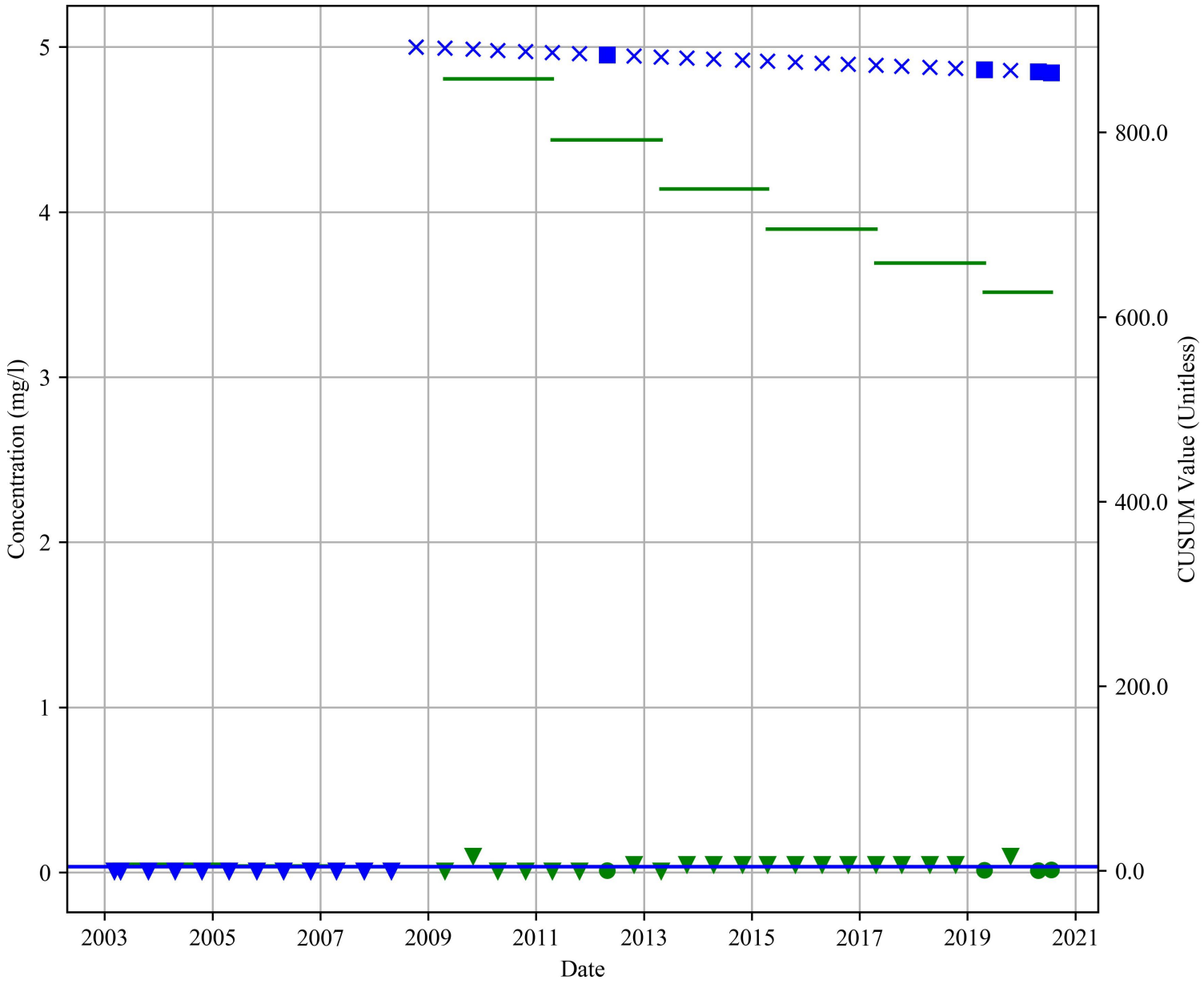
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-31:
Control Chart
MW 4A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

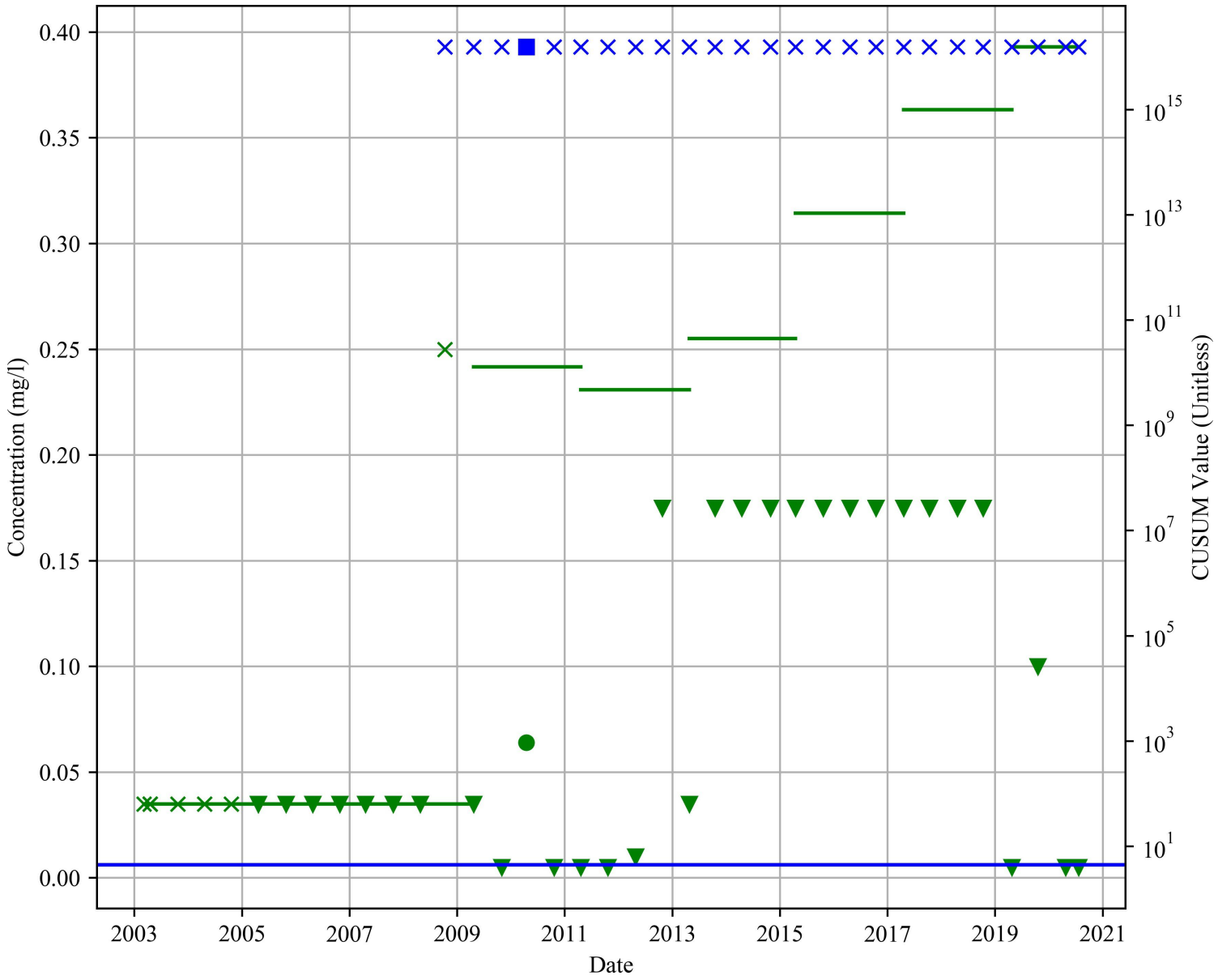
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-32:
Control Chart
MW 4A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

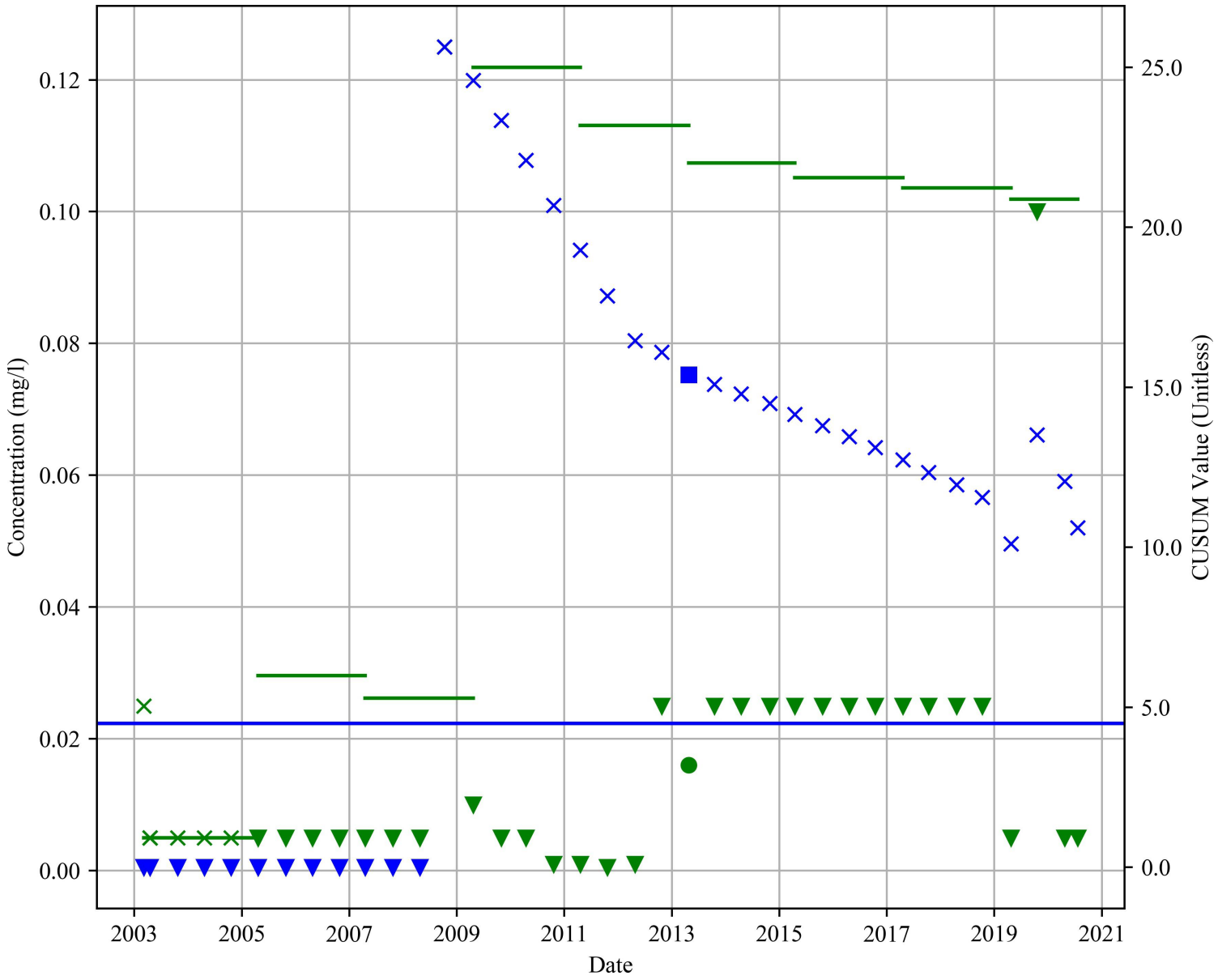
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-33:
Control Chart
MW 4A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

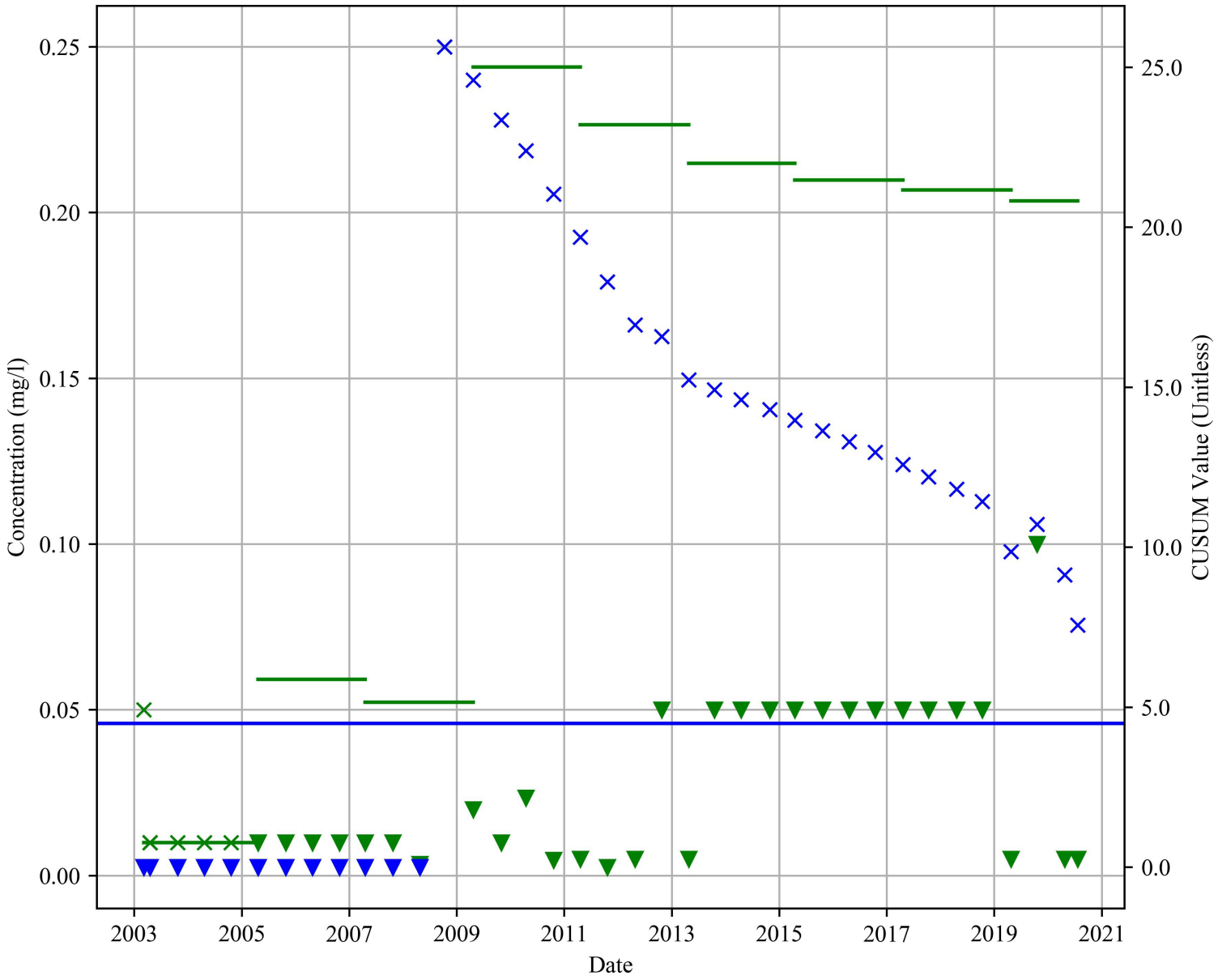
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-34:
Control Chart
MW 4A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

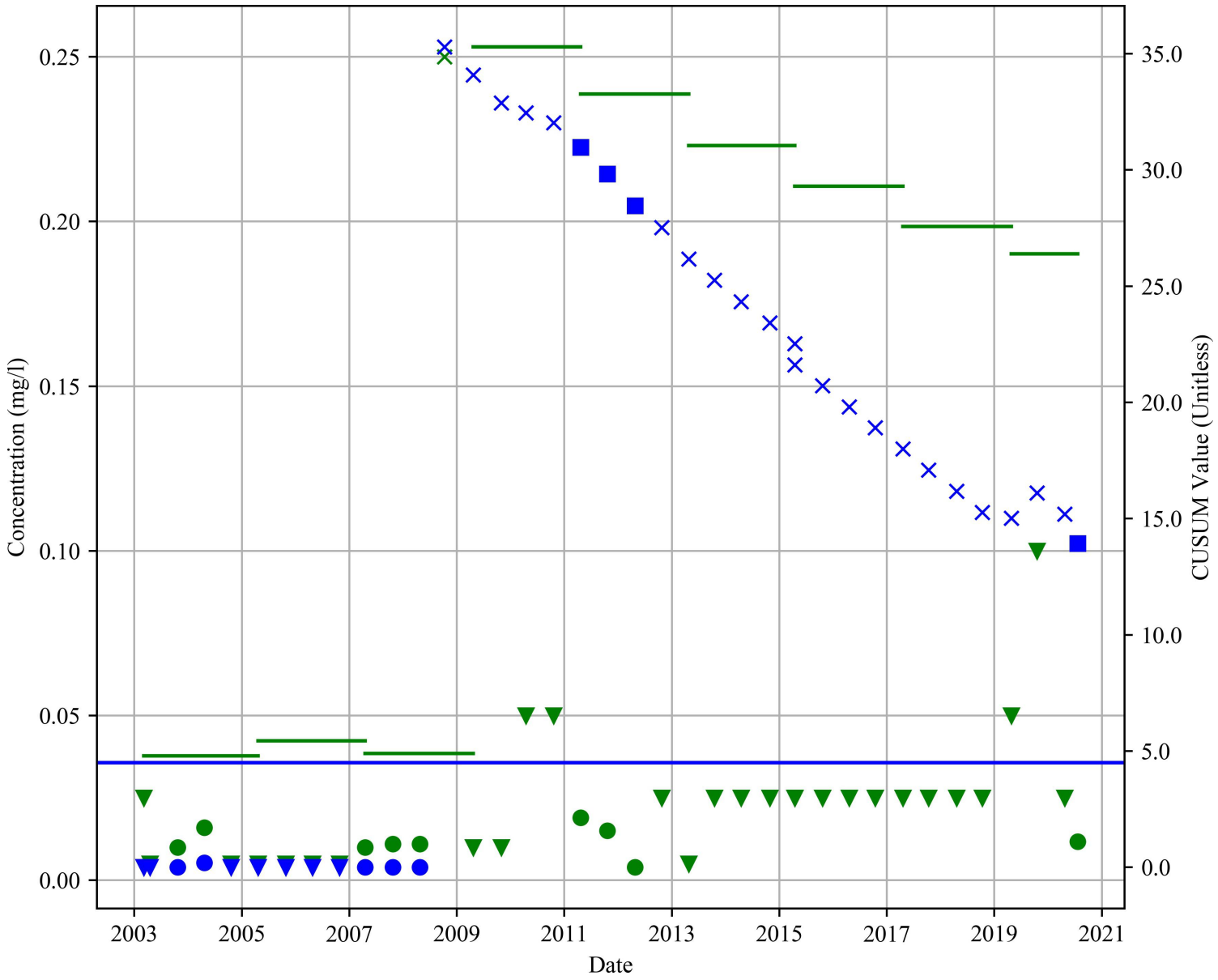
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-35:
Control Chart
MW 4A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

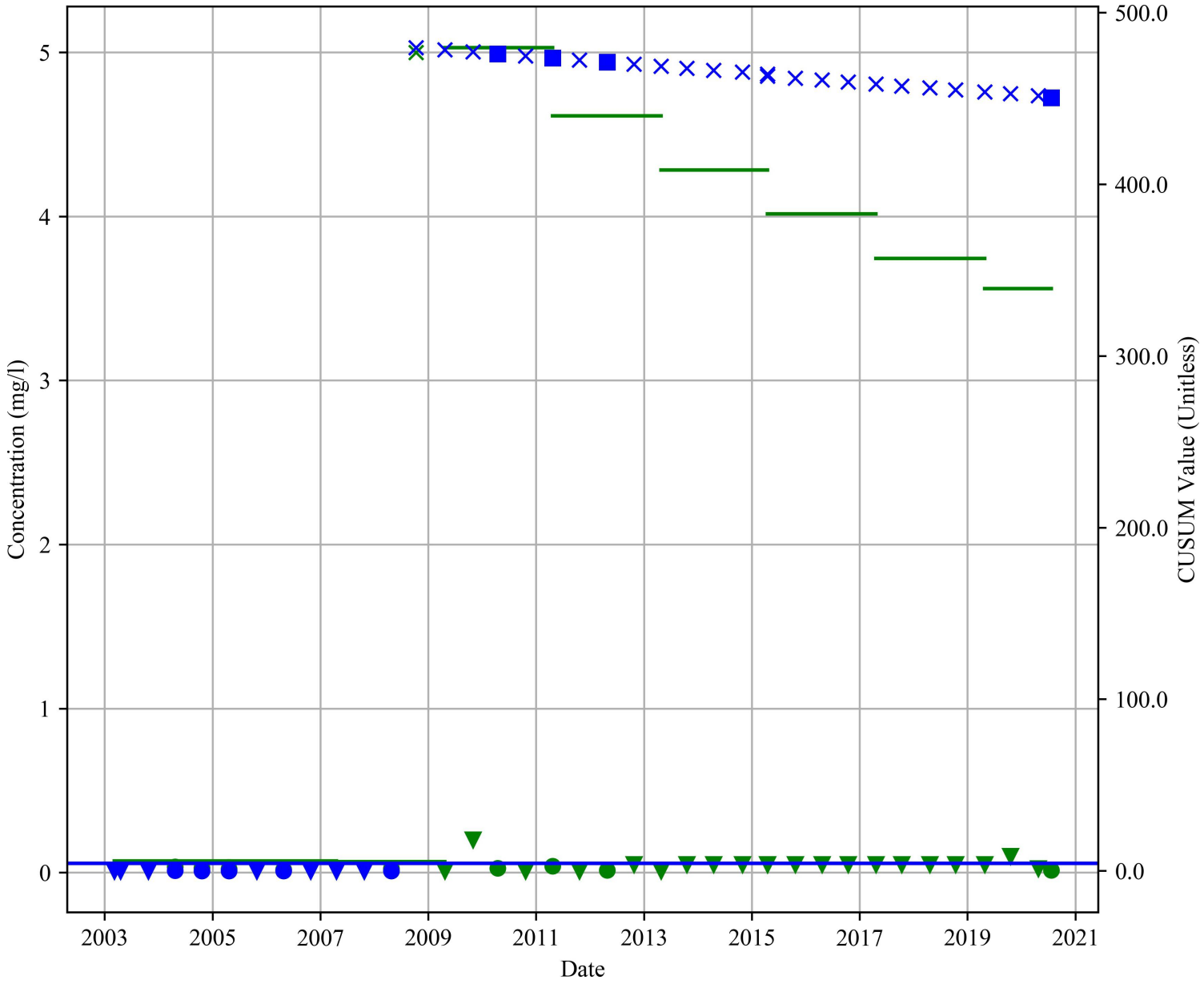
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-36:
Control Chart
MW 4A3 (New)
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

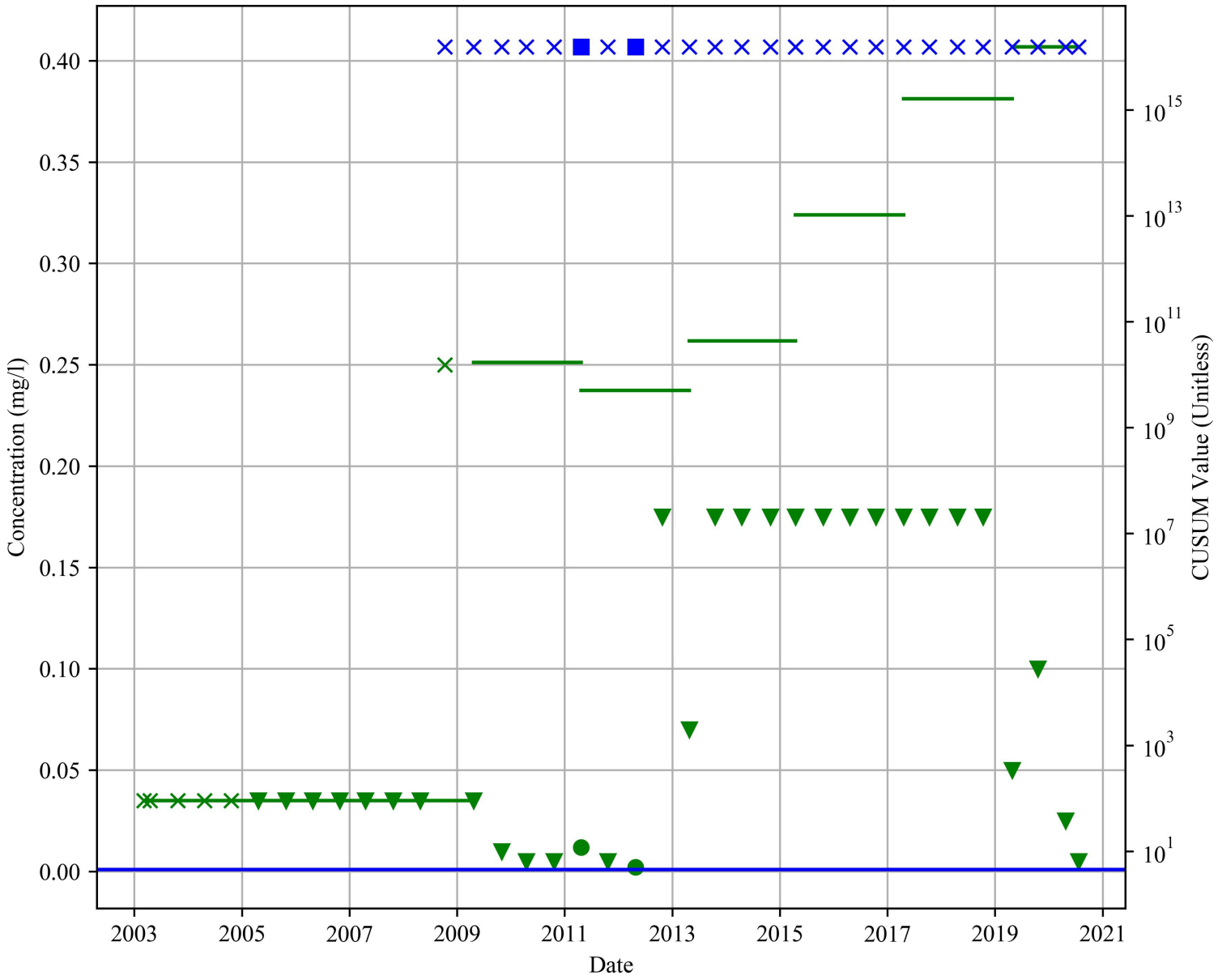
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-37:
Control Chart
MW 4A3 (New)
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

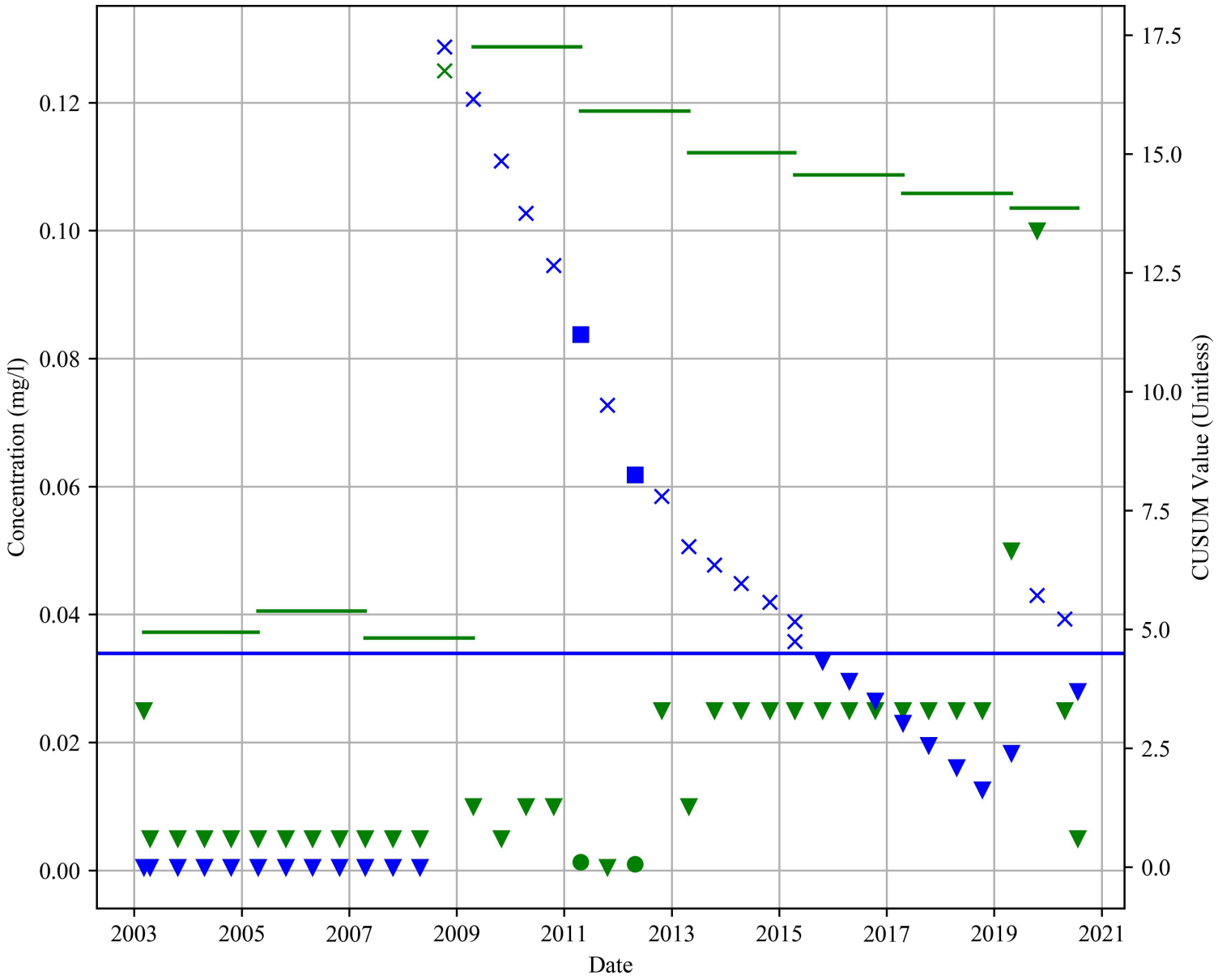
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-38:
Control Chart
MW 4A3 (New)
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

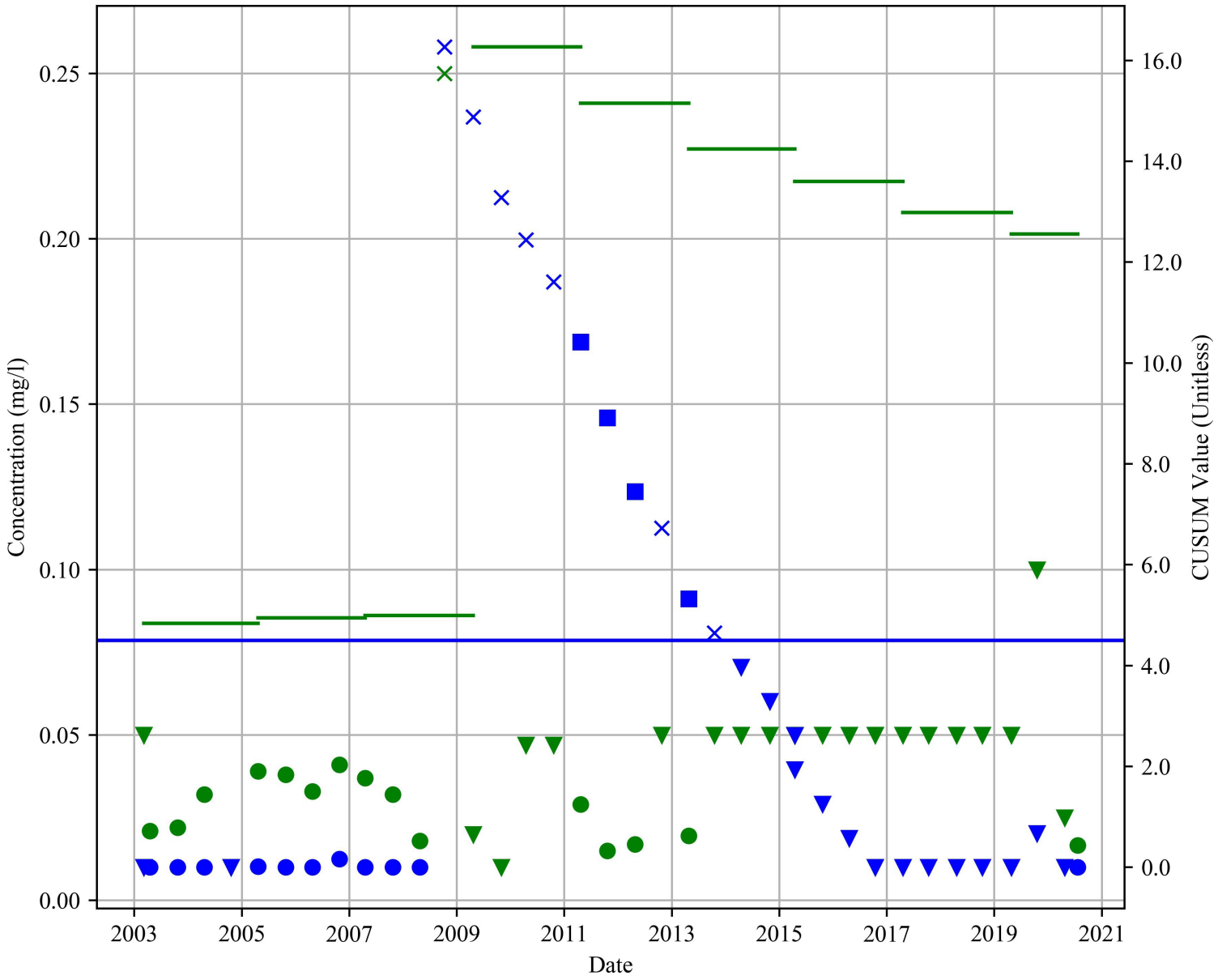
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-39:
Control Chart
MW 4A3 (New)
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

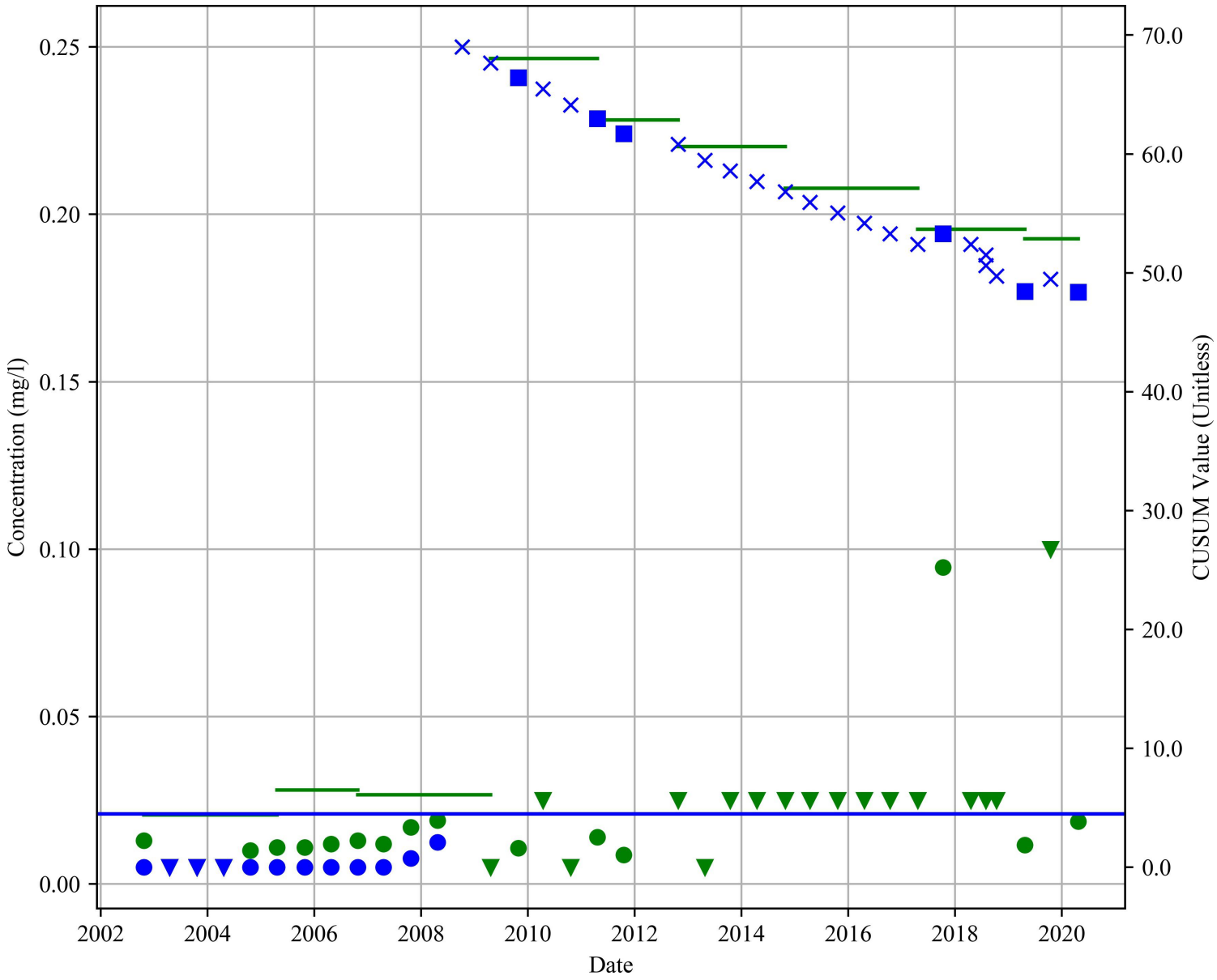
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-40:
Control Chart
MW 4A3 (New)
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

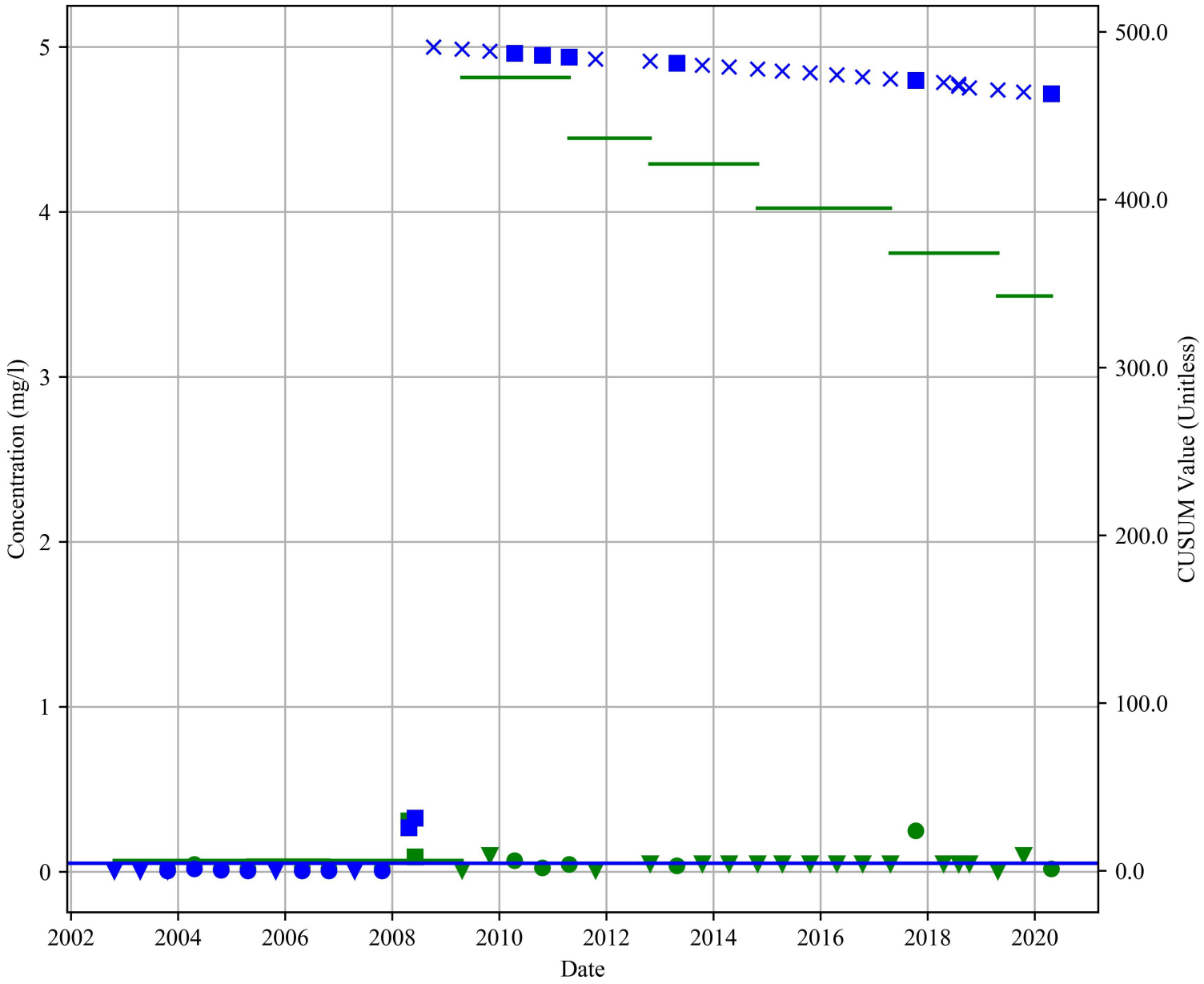
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-41:
Control Chart
MW 6A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

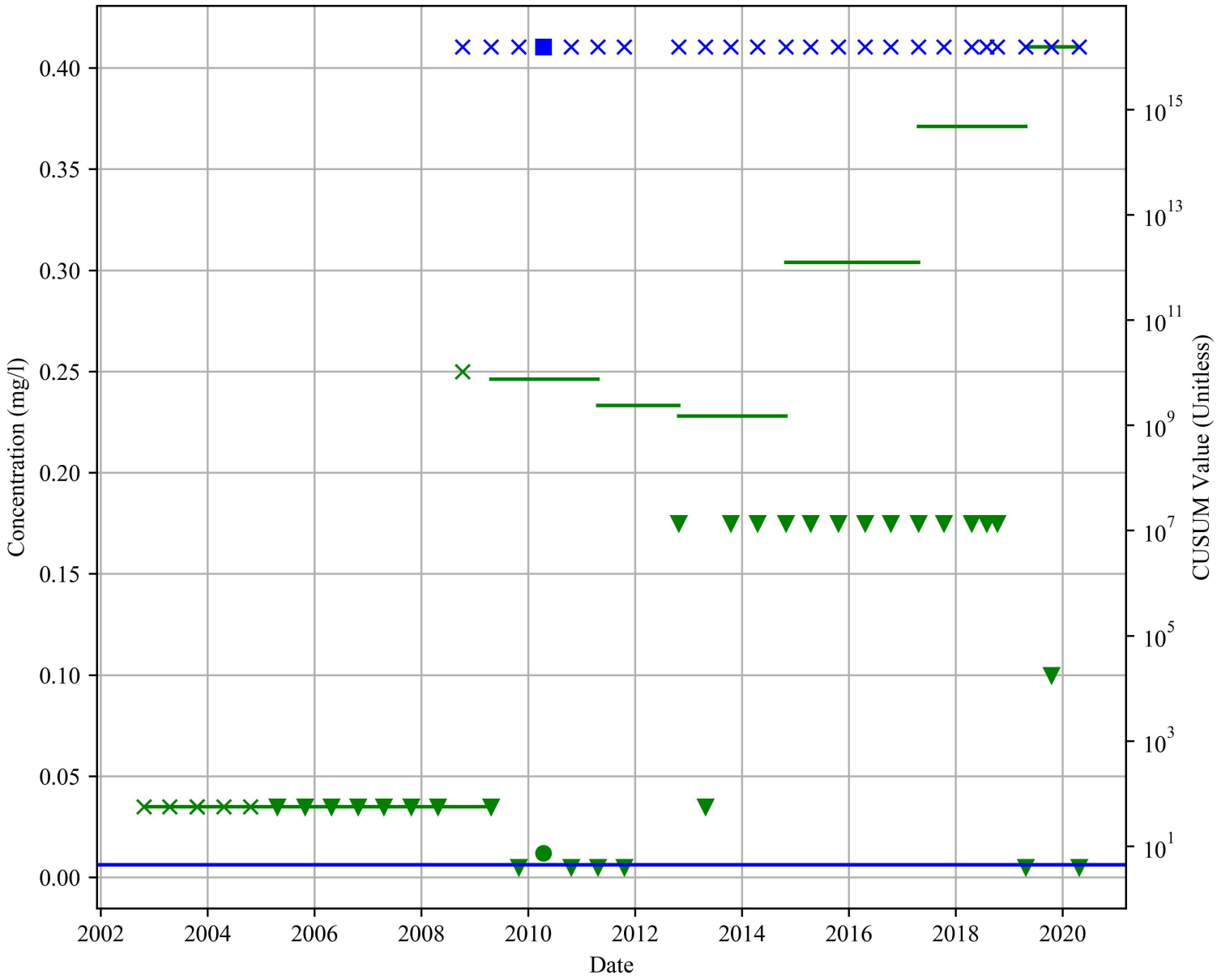
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-42:
Control Chart
MW 6A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

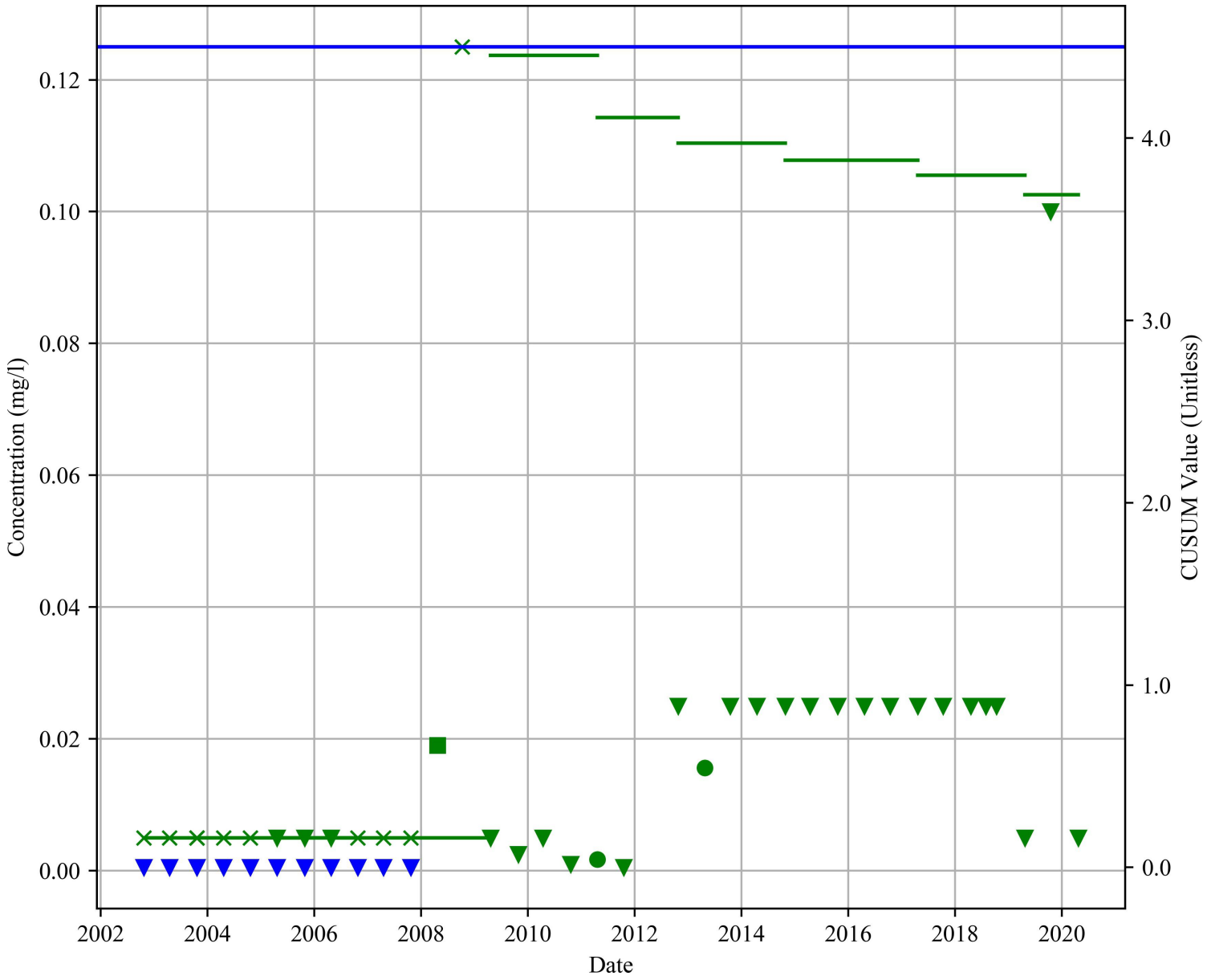
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-43:
Control Chart
MW 6A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

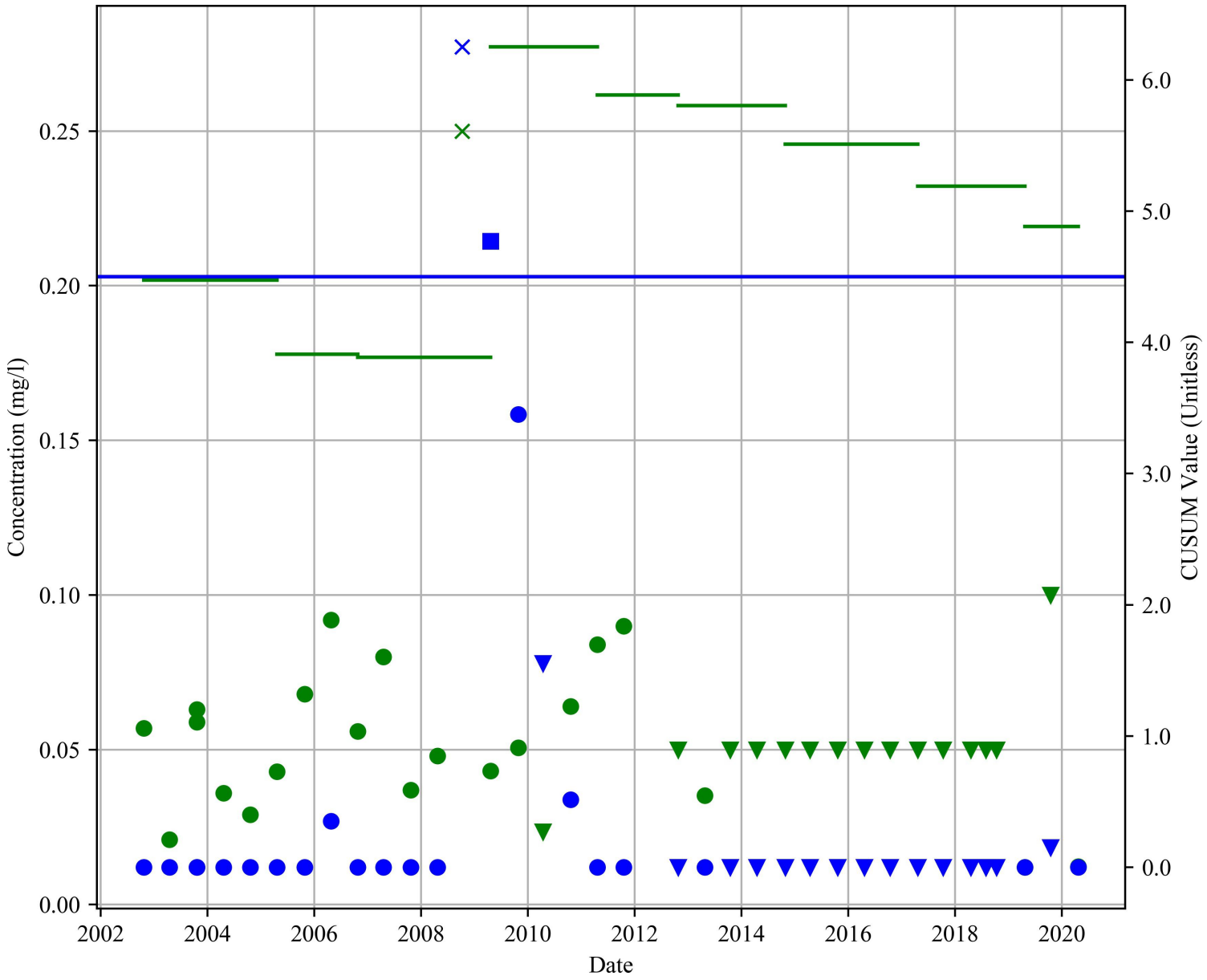
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-44:
Control Chart
MW 6A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

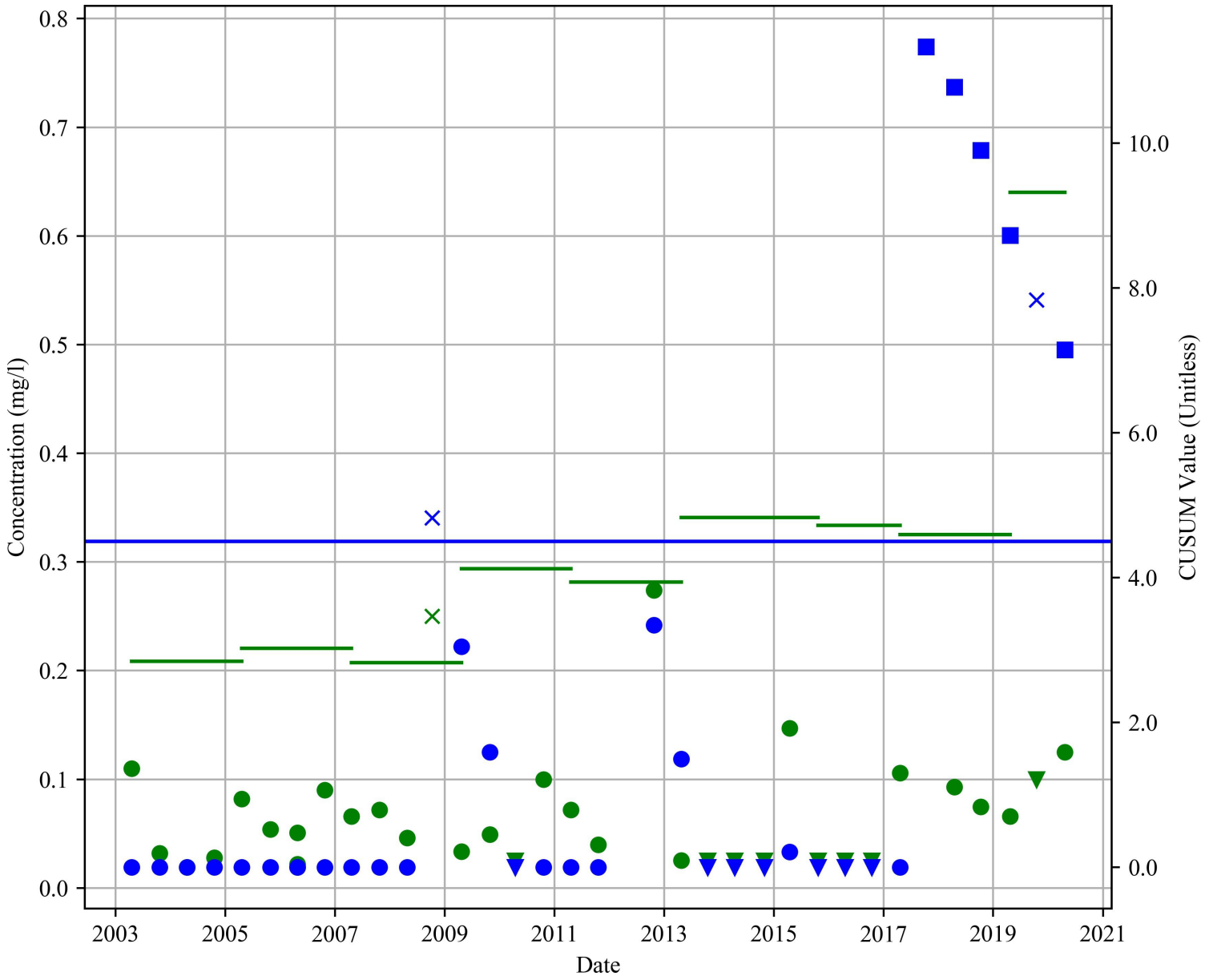
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-45:
Control Chart
MW 6A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

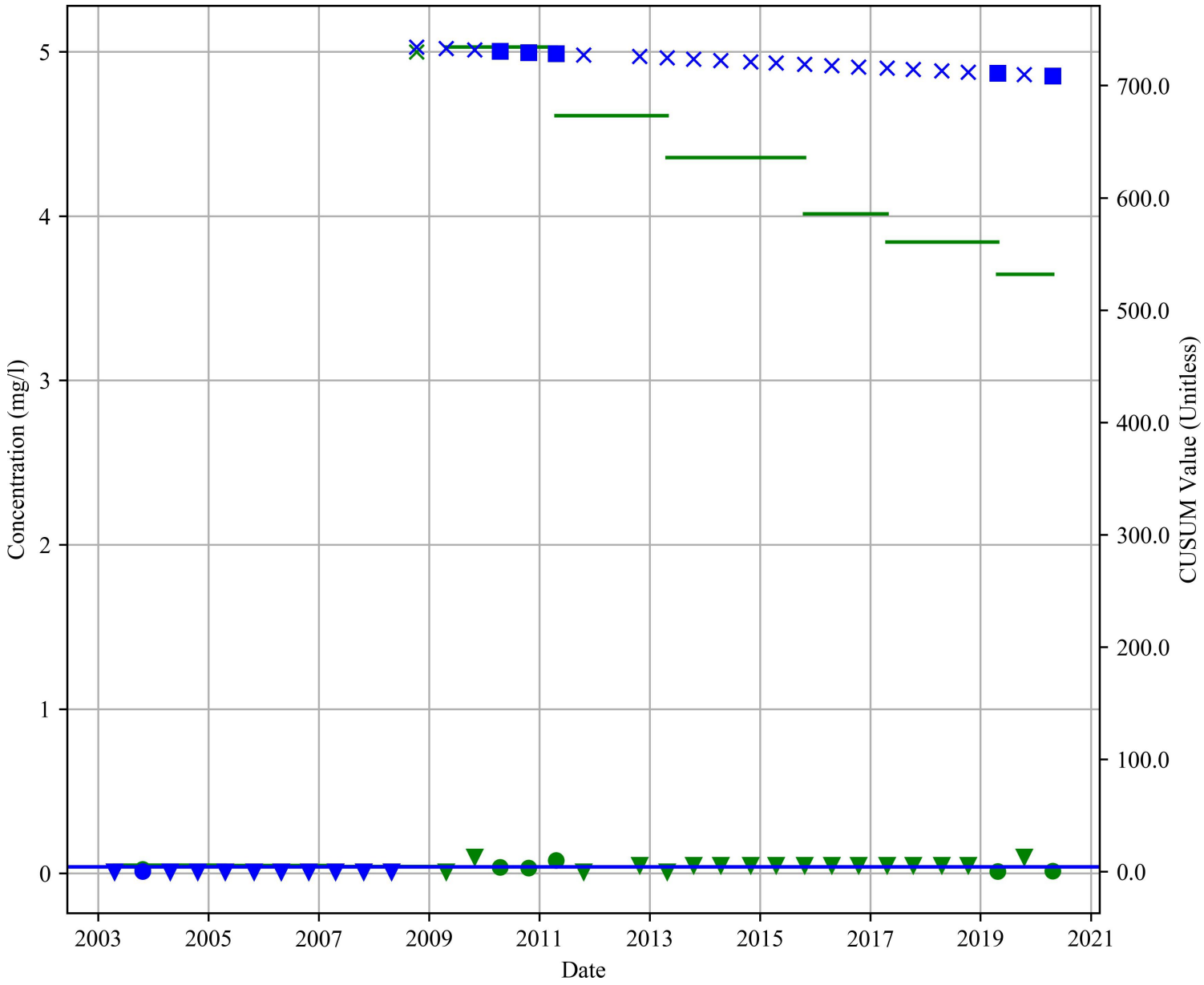
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-46:
Control Chart
MW 6A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

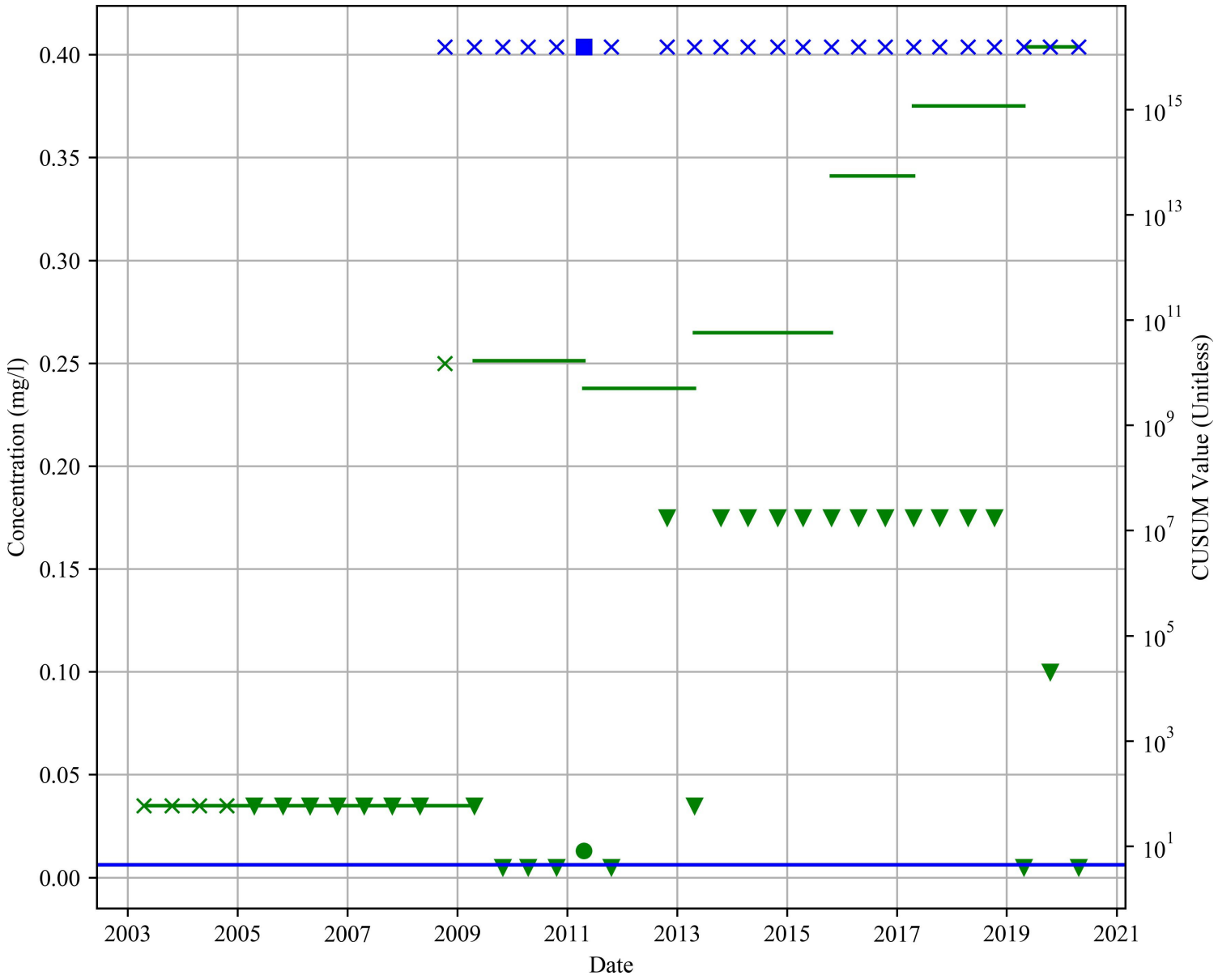
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-47:
Control Chart
MW 6A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

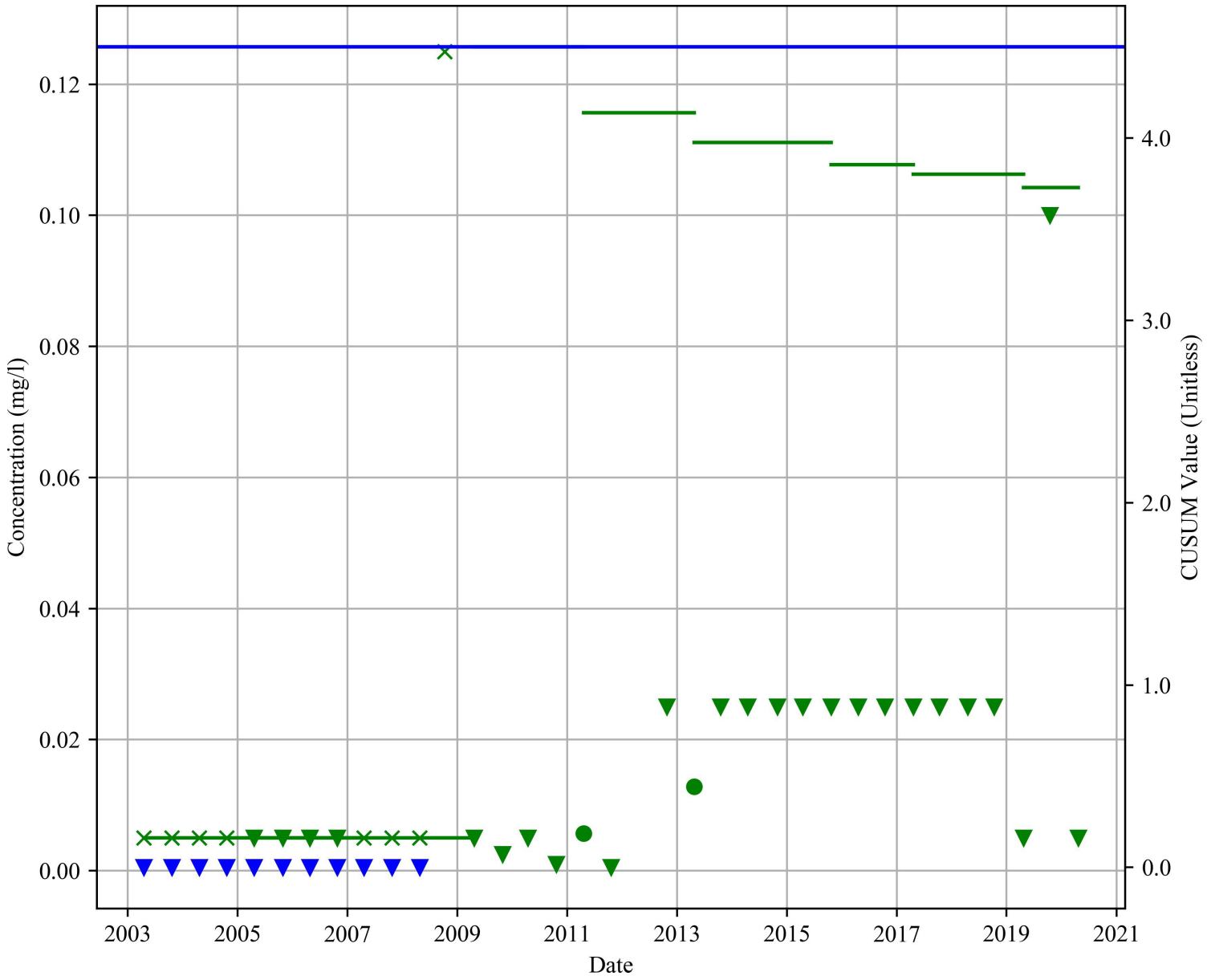
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-48:
Control Chart
MW 6A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

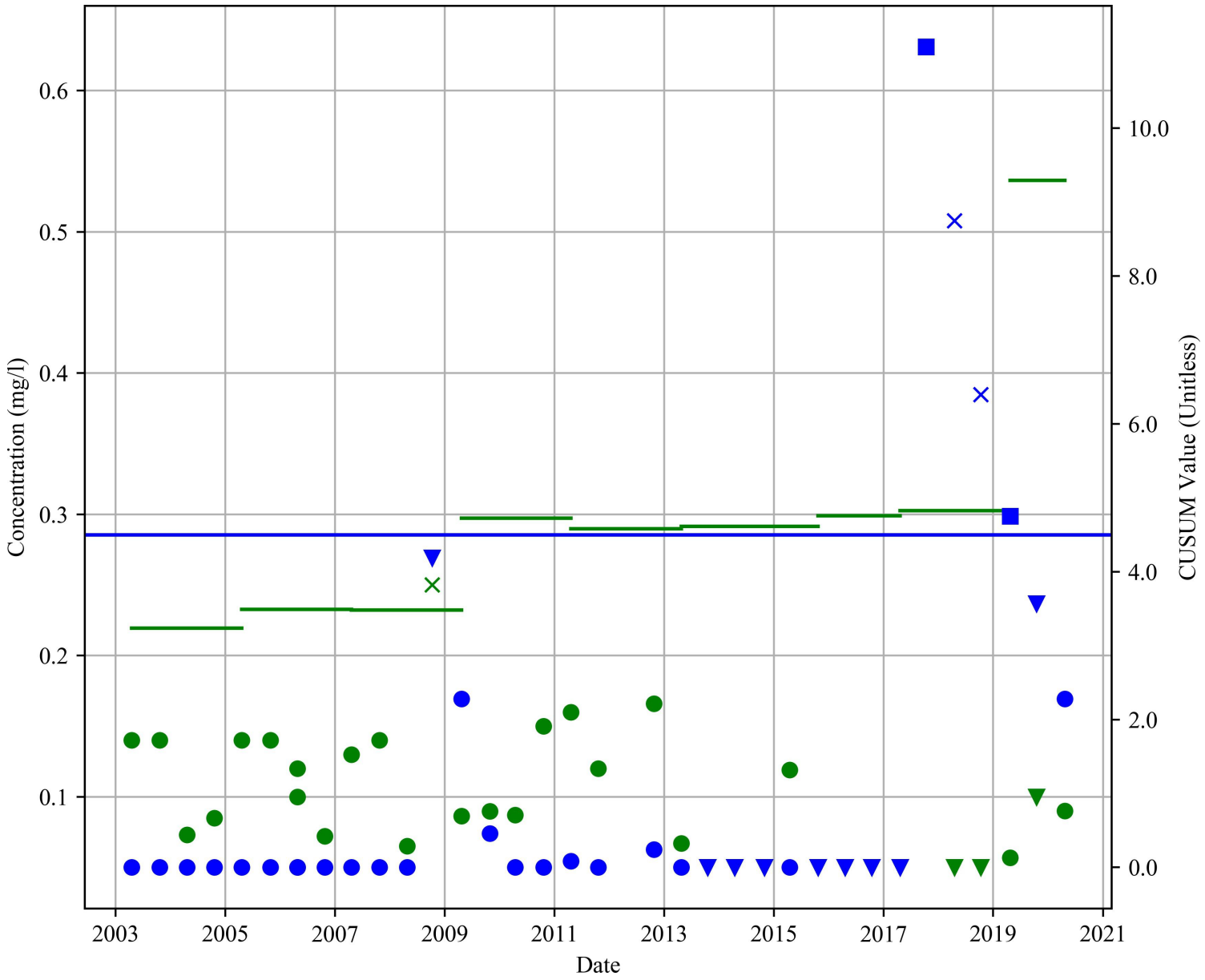
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-49:
Control Chart
MW 6A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

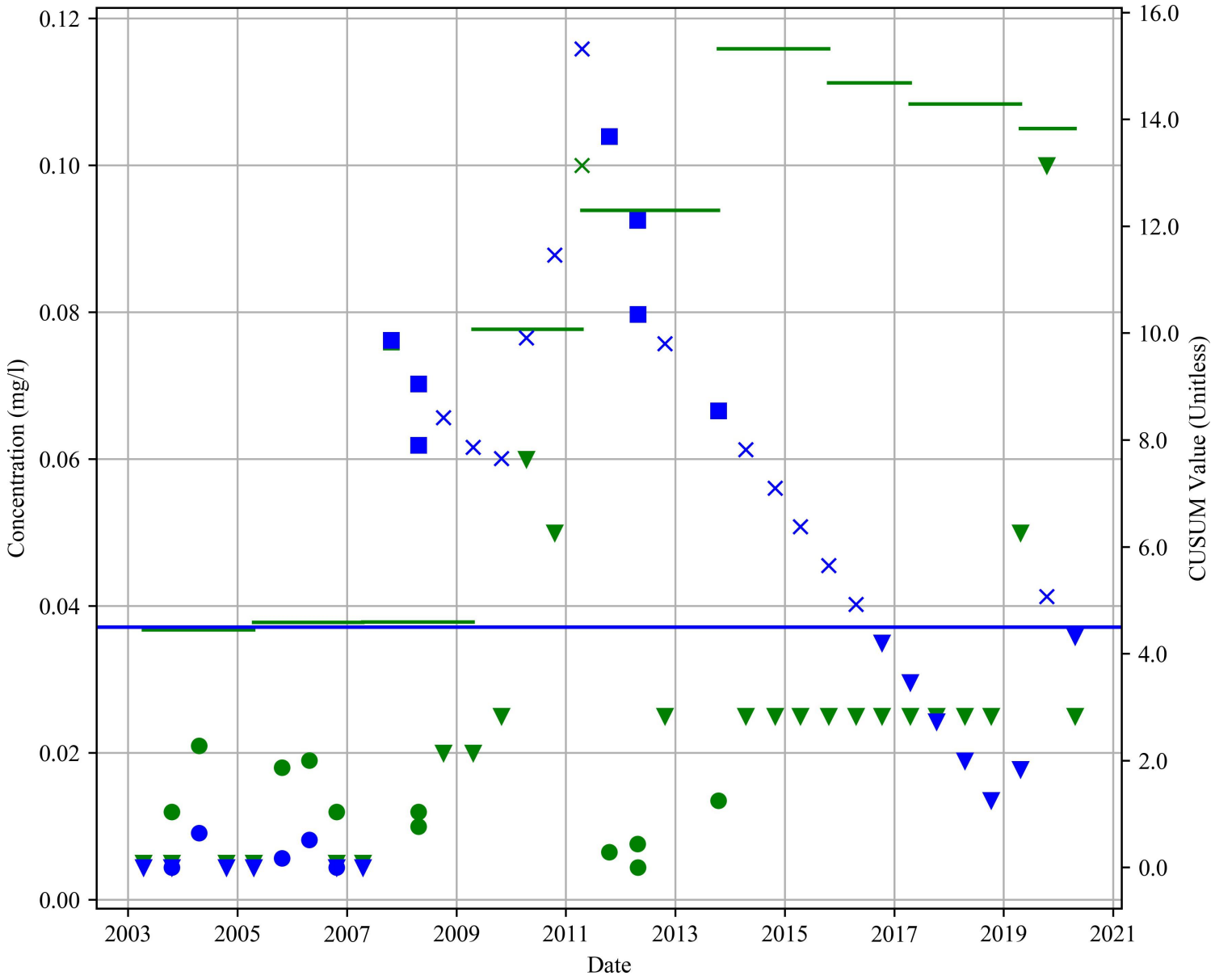
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-50:
Control Chart
MW 6A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

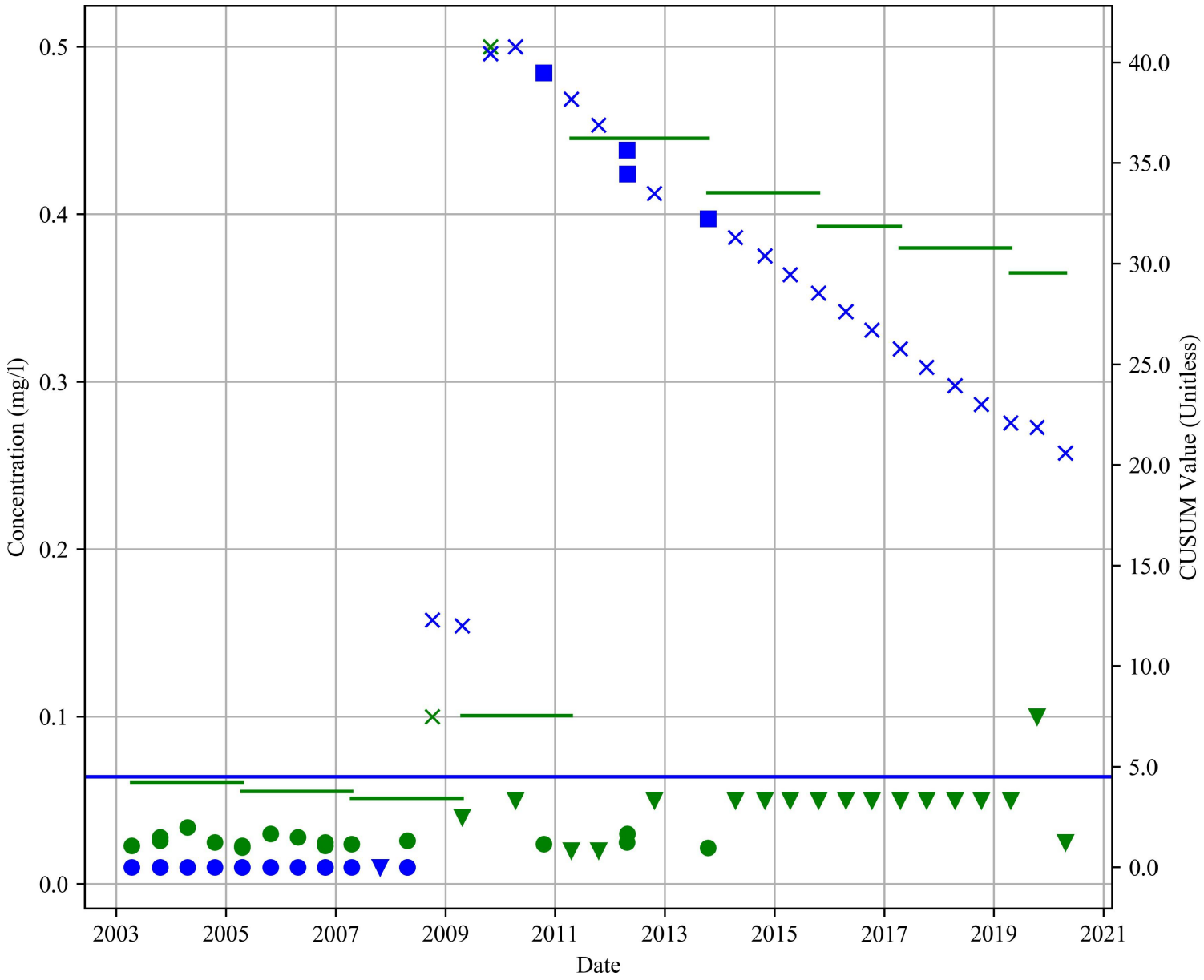
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-51:
Control Chart
MW 8A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

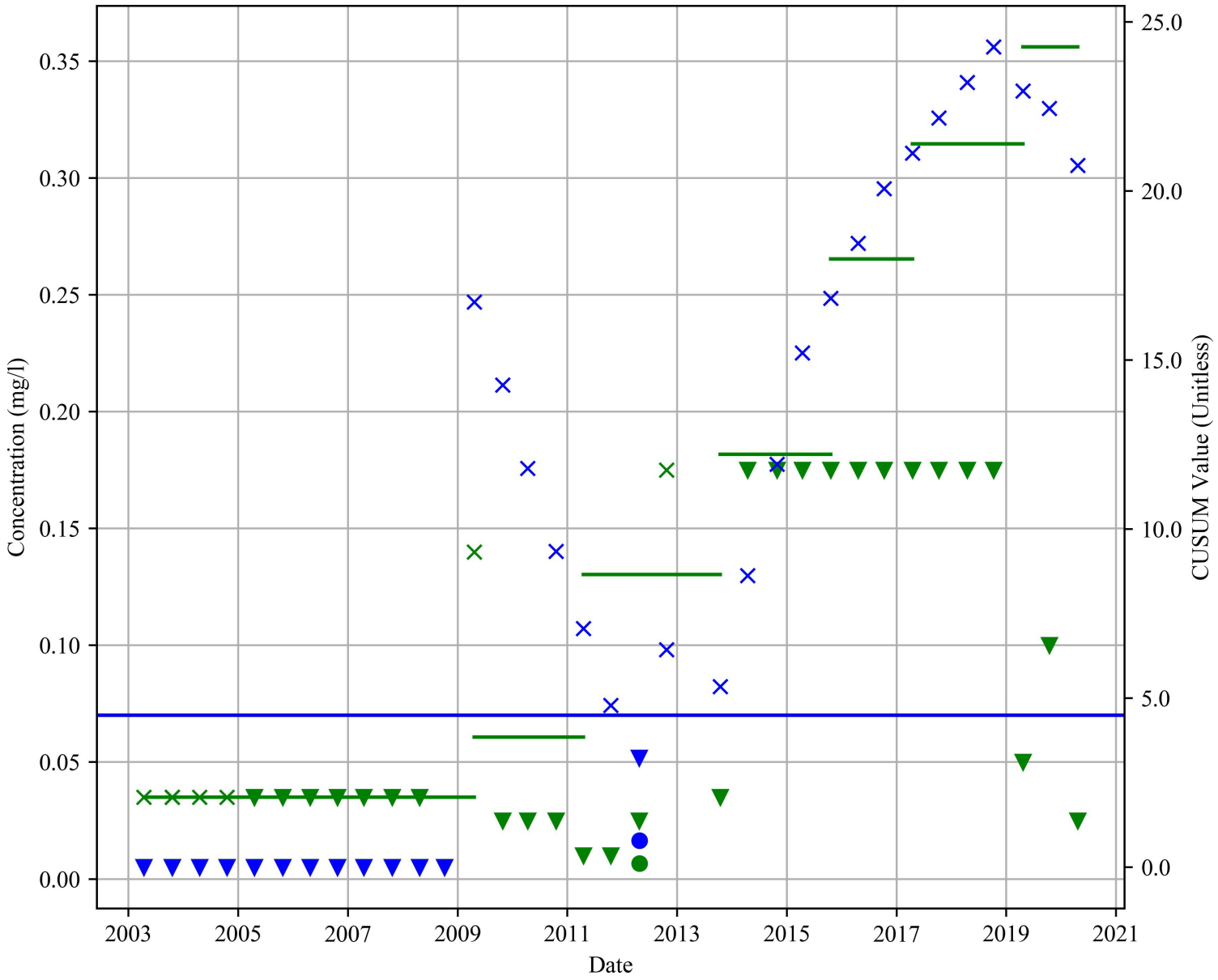
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-52:
Control Chart
MW 8A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

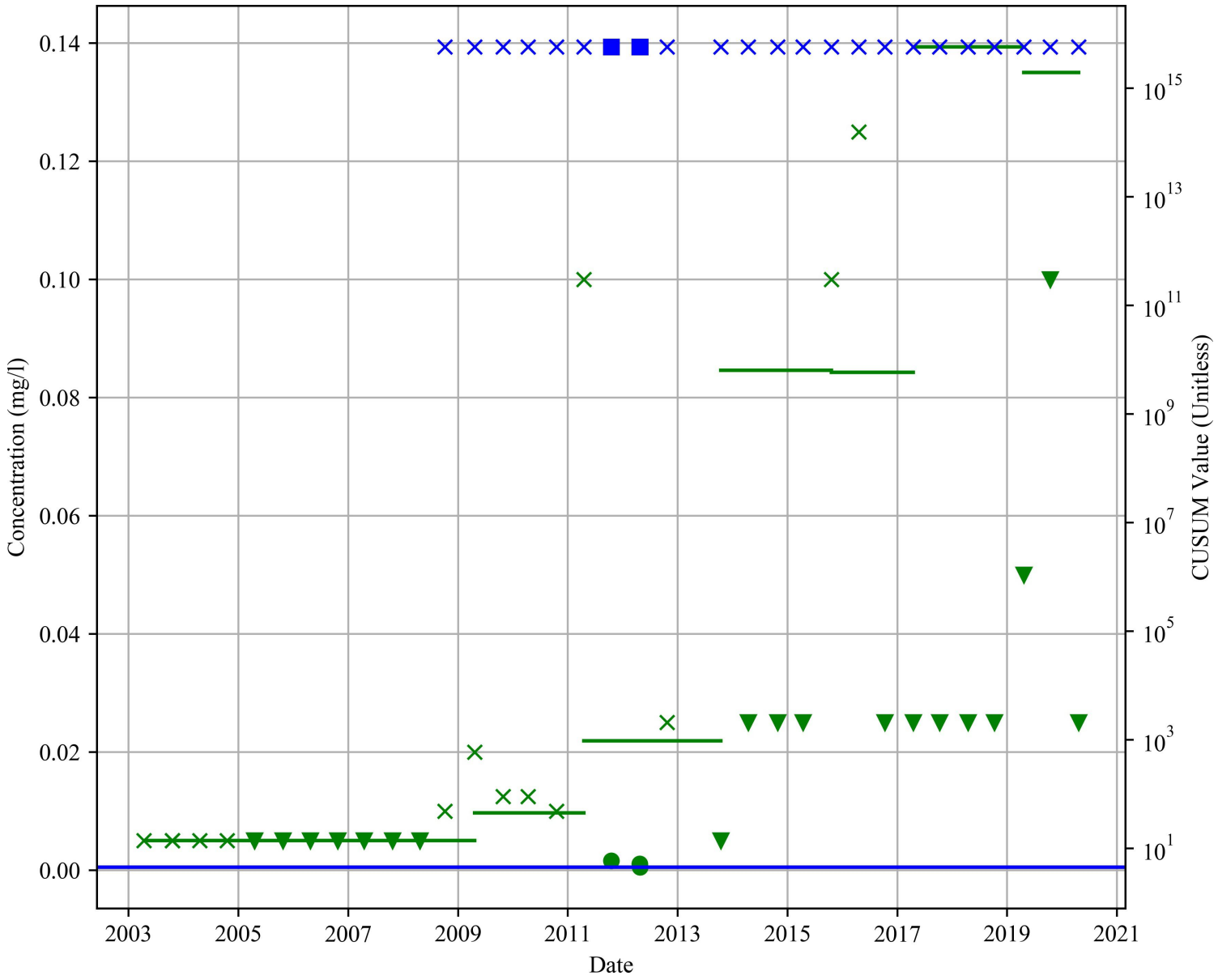
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-53:
Control Chart
MW 8A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

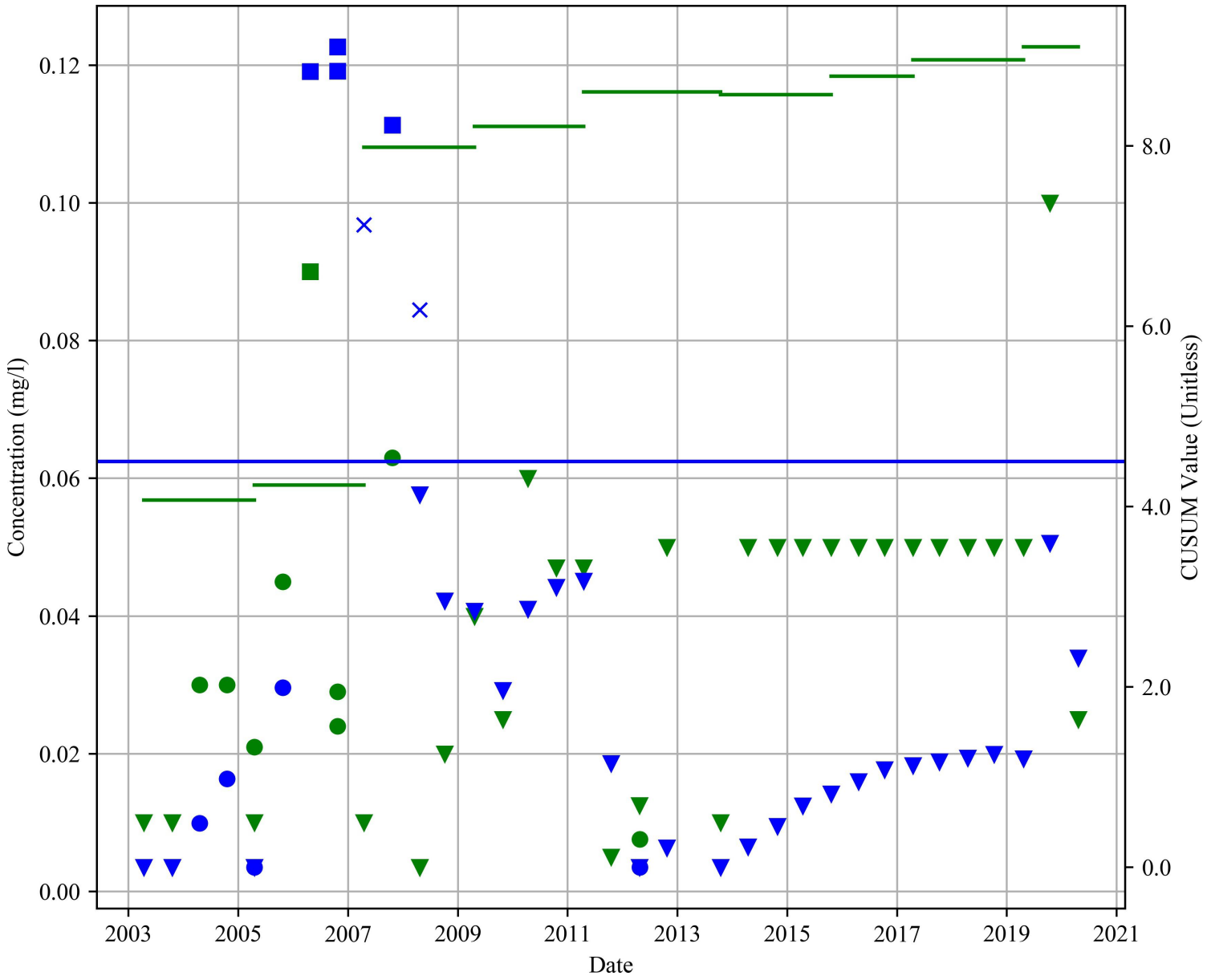
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-54:
Control Chart
MW 8A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

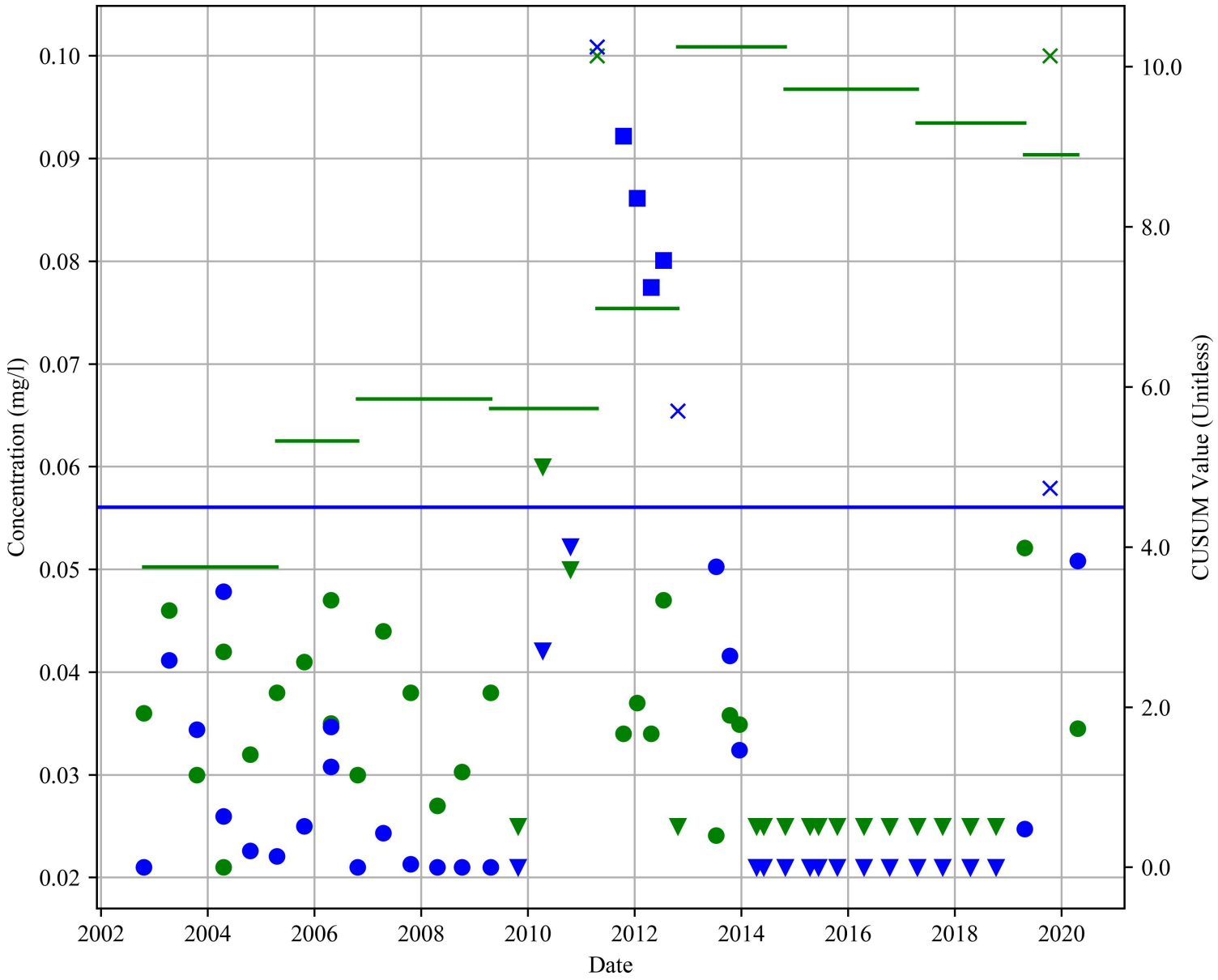
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-55:
Control Chart
MW 8A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

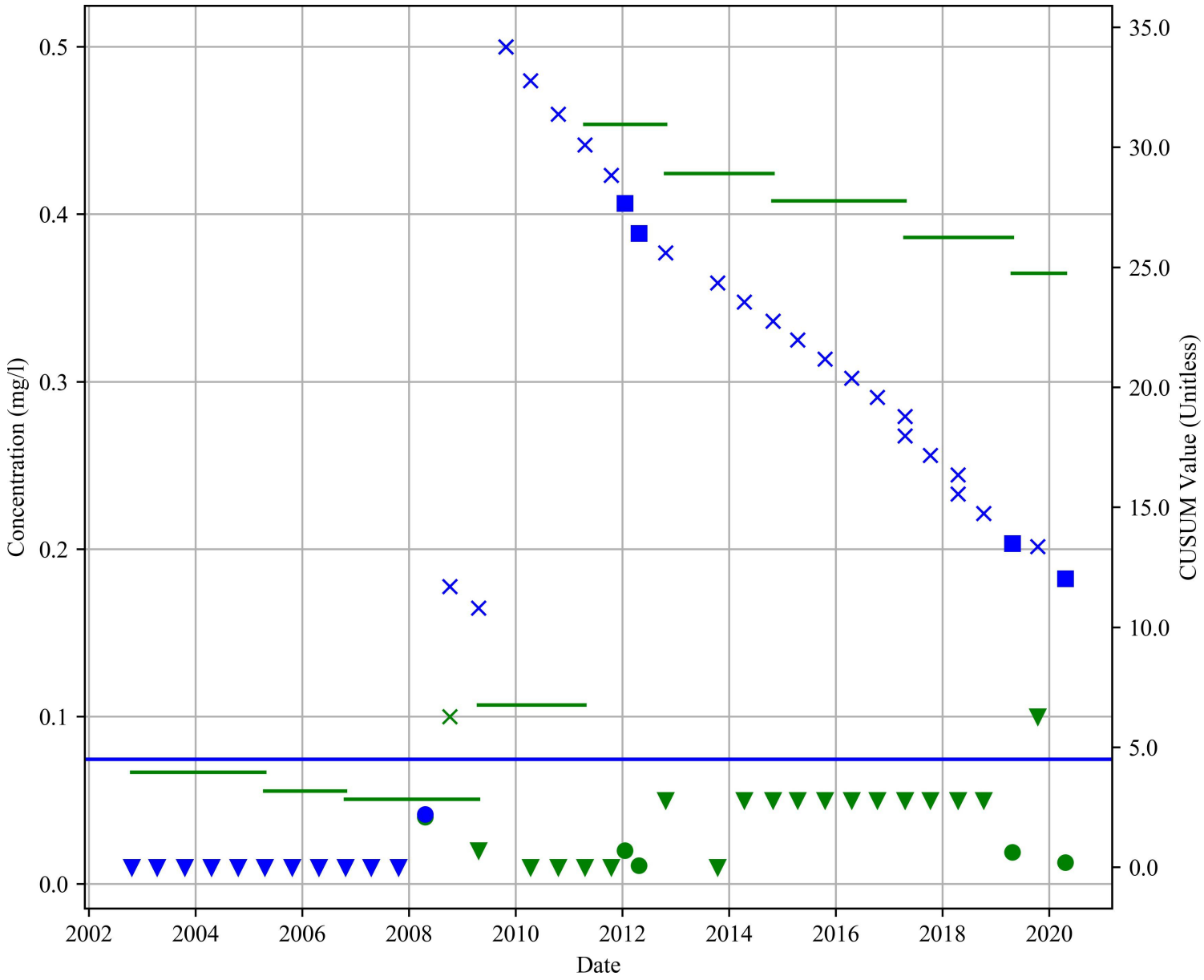
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-56:
Control Chart
MW 8A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

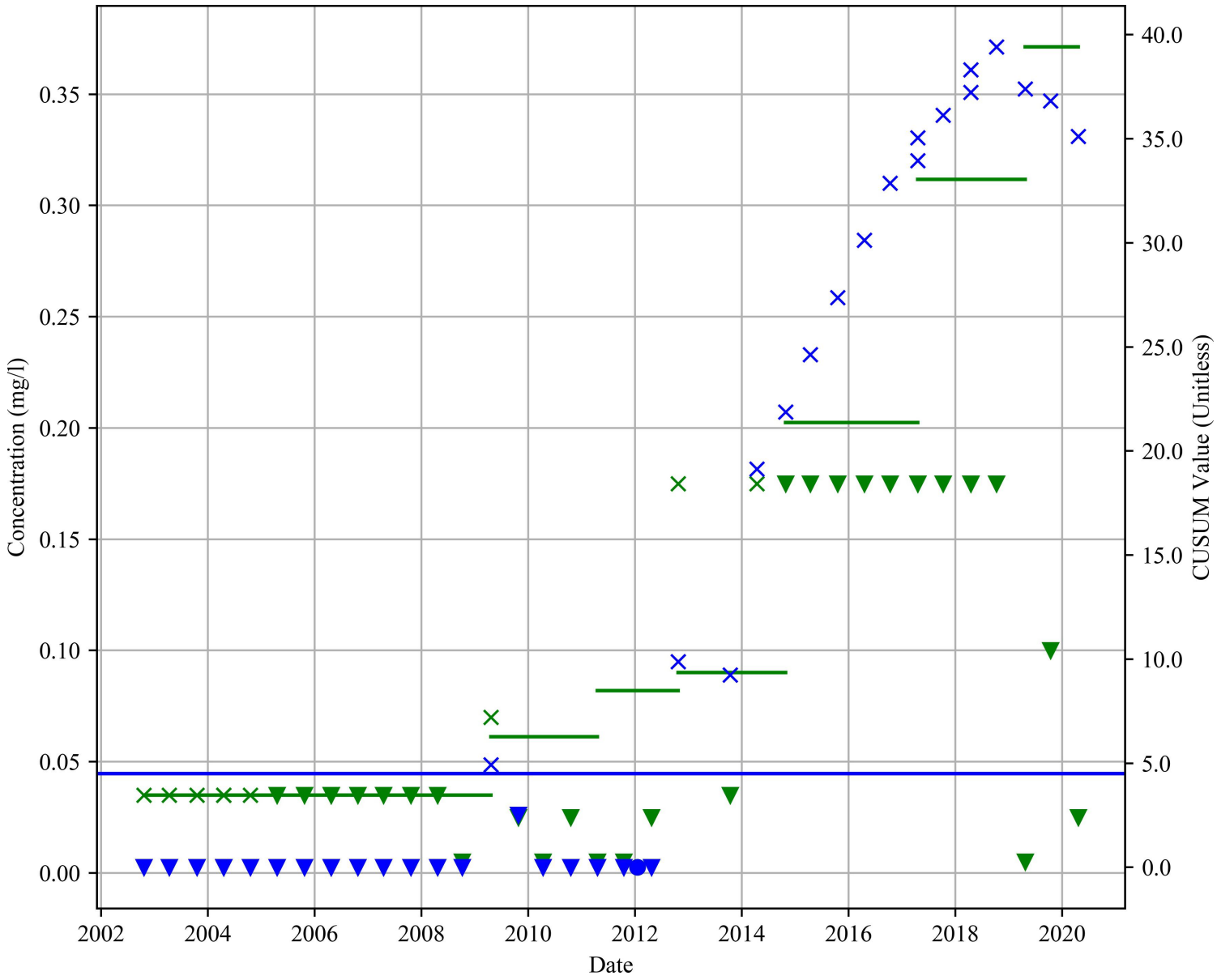
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-57:
Control Chart
MW 8A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

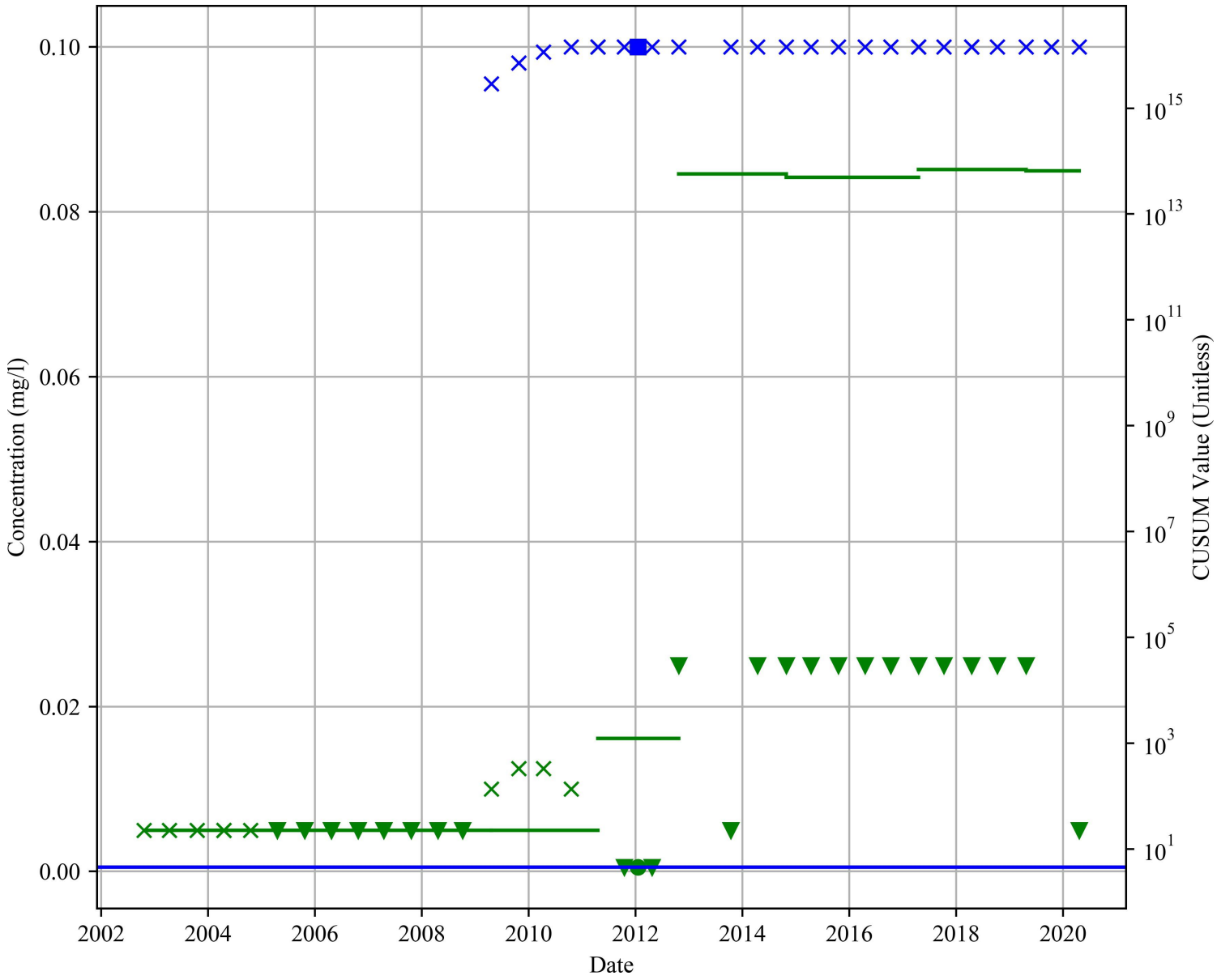
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-58:
Control Chart
MW 8A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

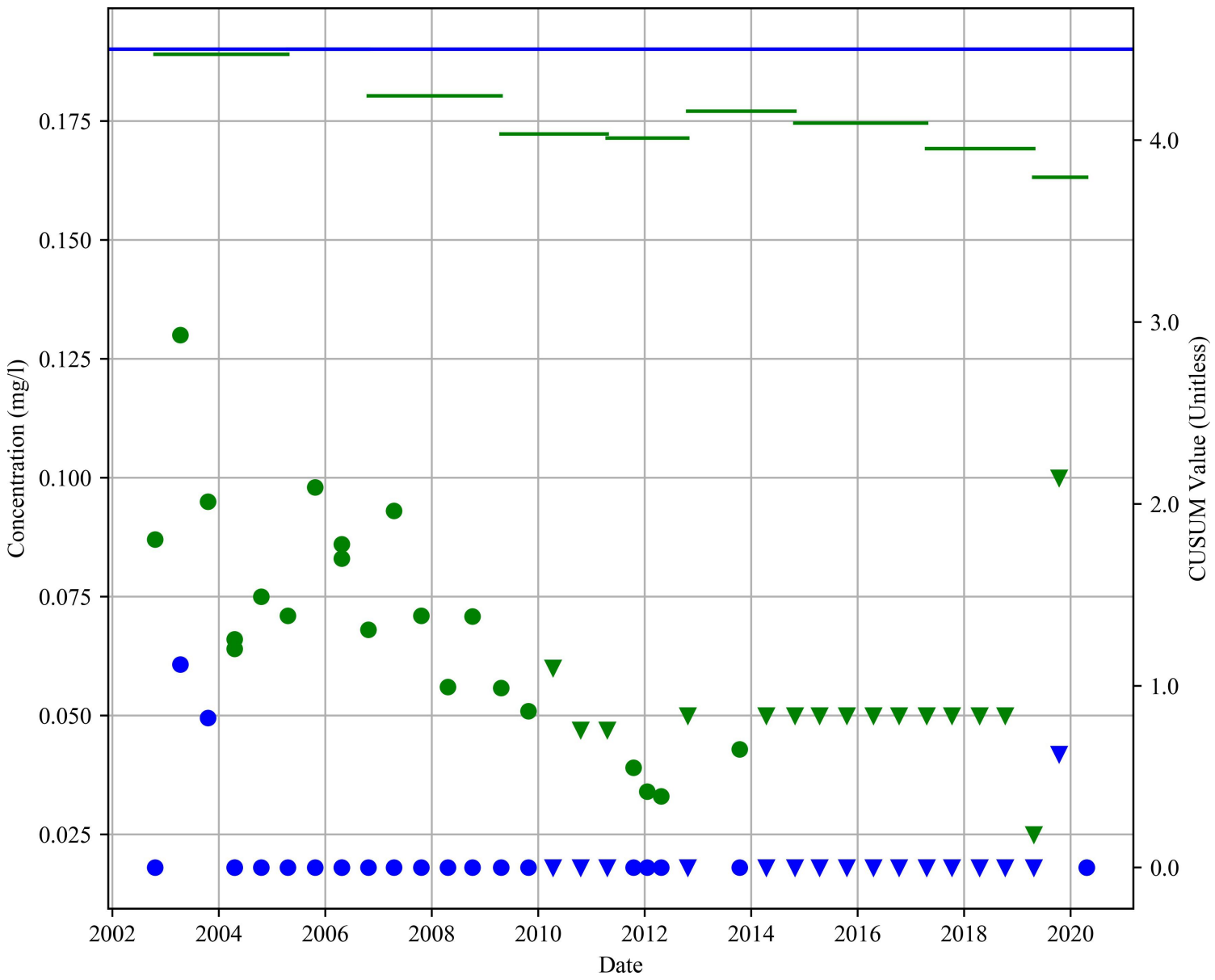
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-59:
Control Chart
MW 8A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

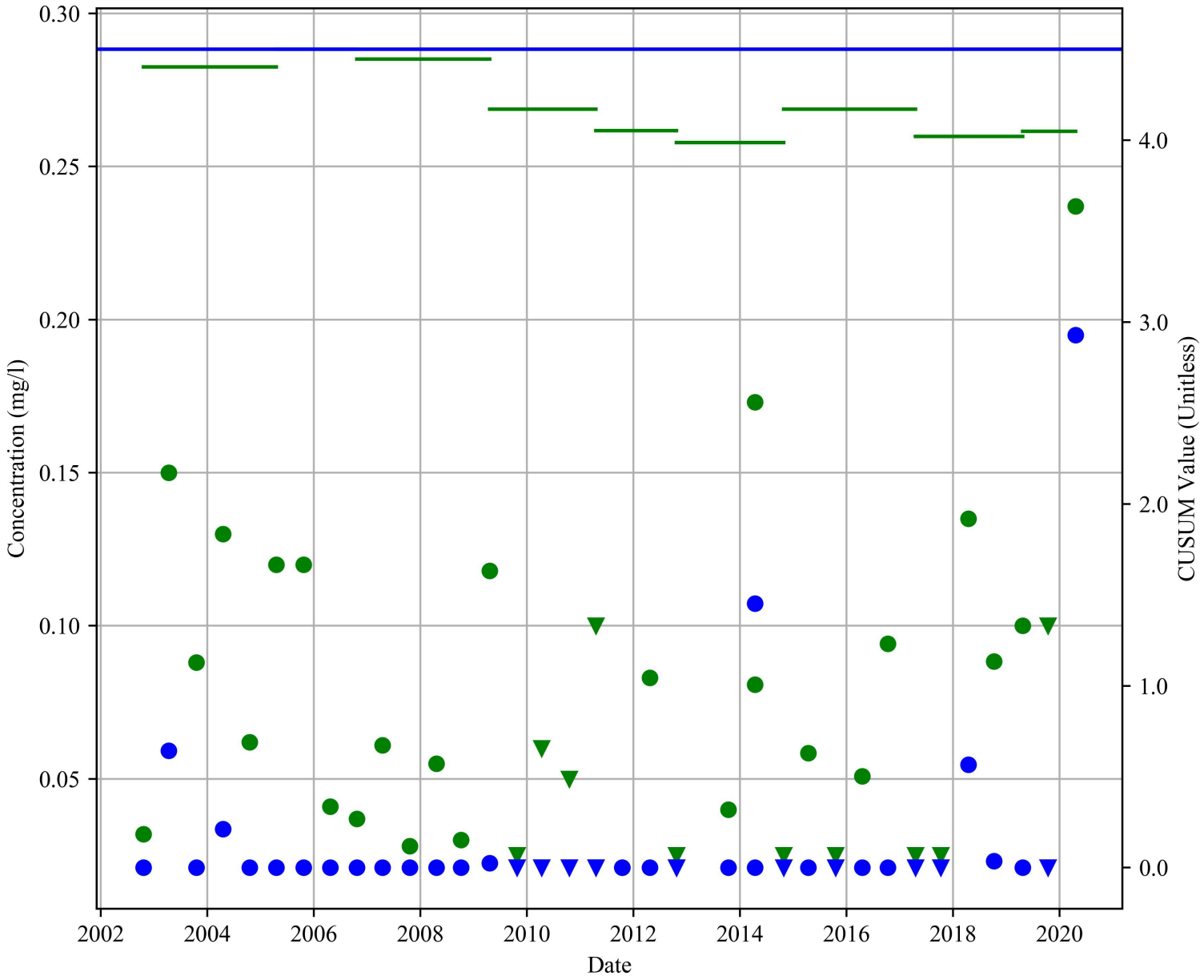
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-60:
Control Chart
MW 8A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

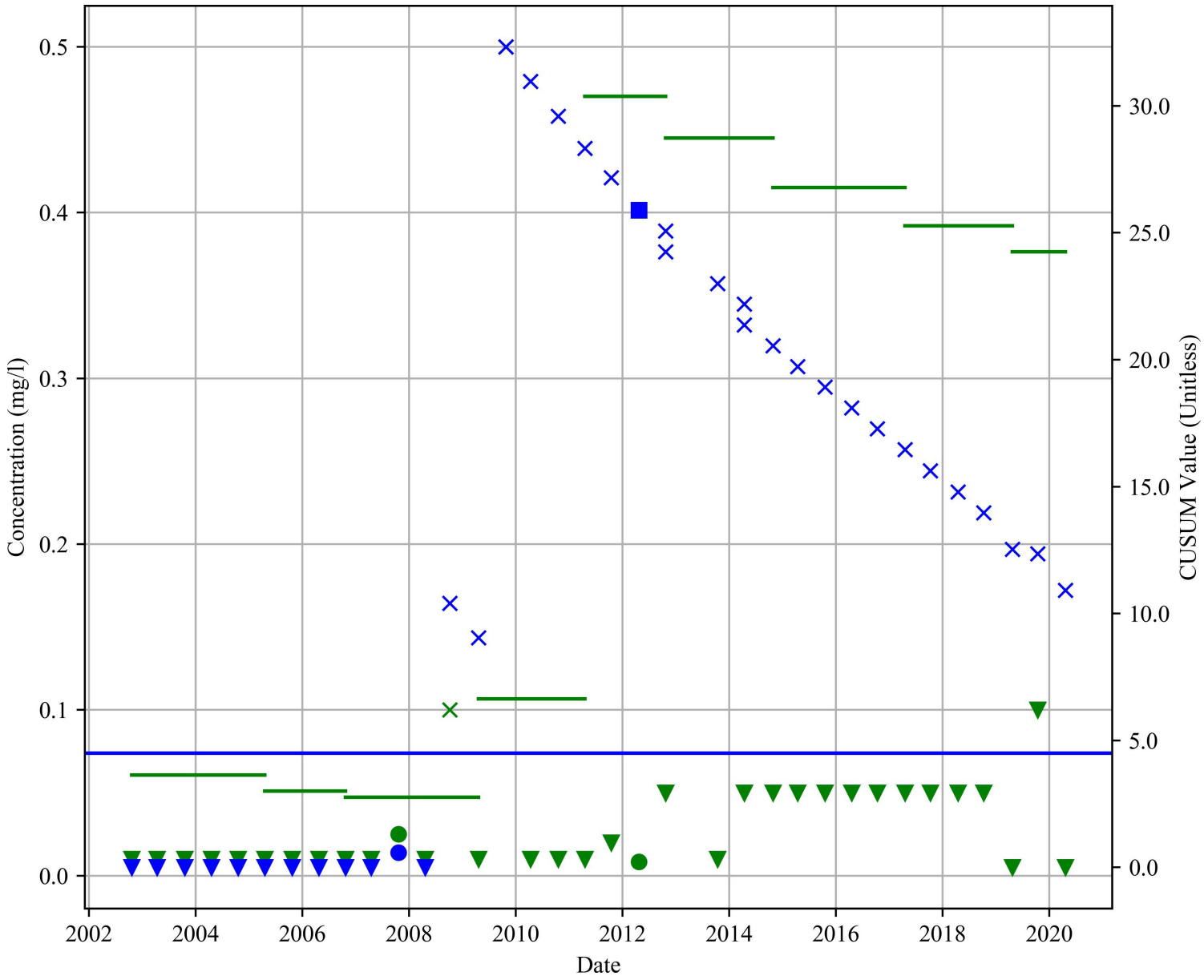
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-61:
Control Chart
MW 8A3
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

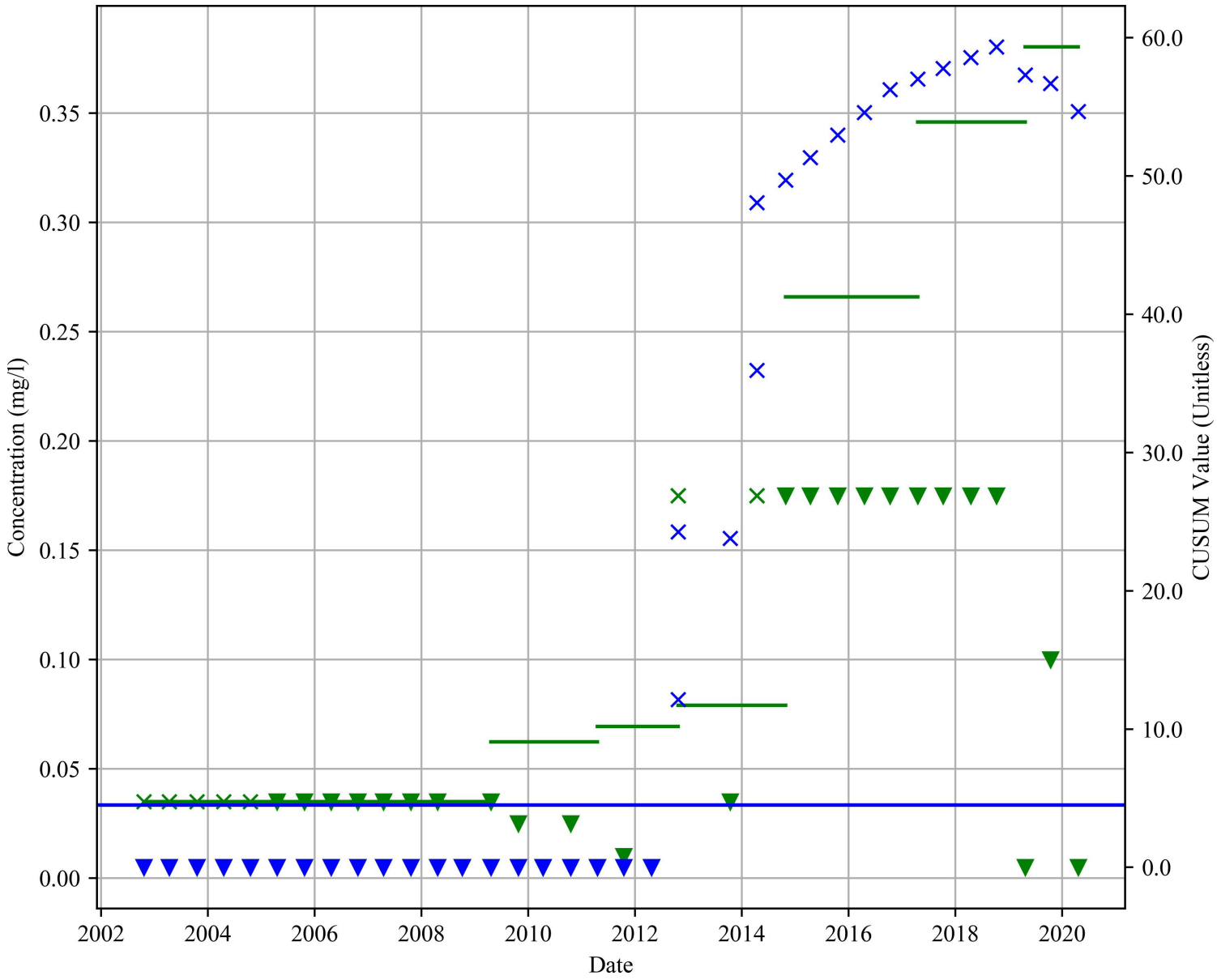
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-62:
Control Chart
MW 8A3
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

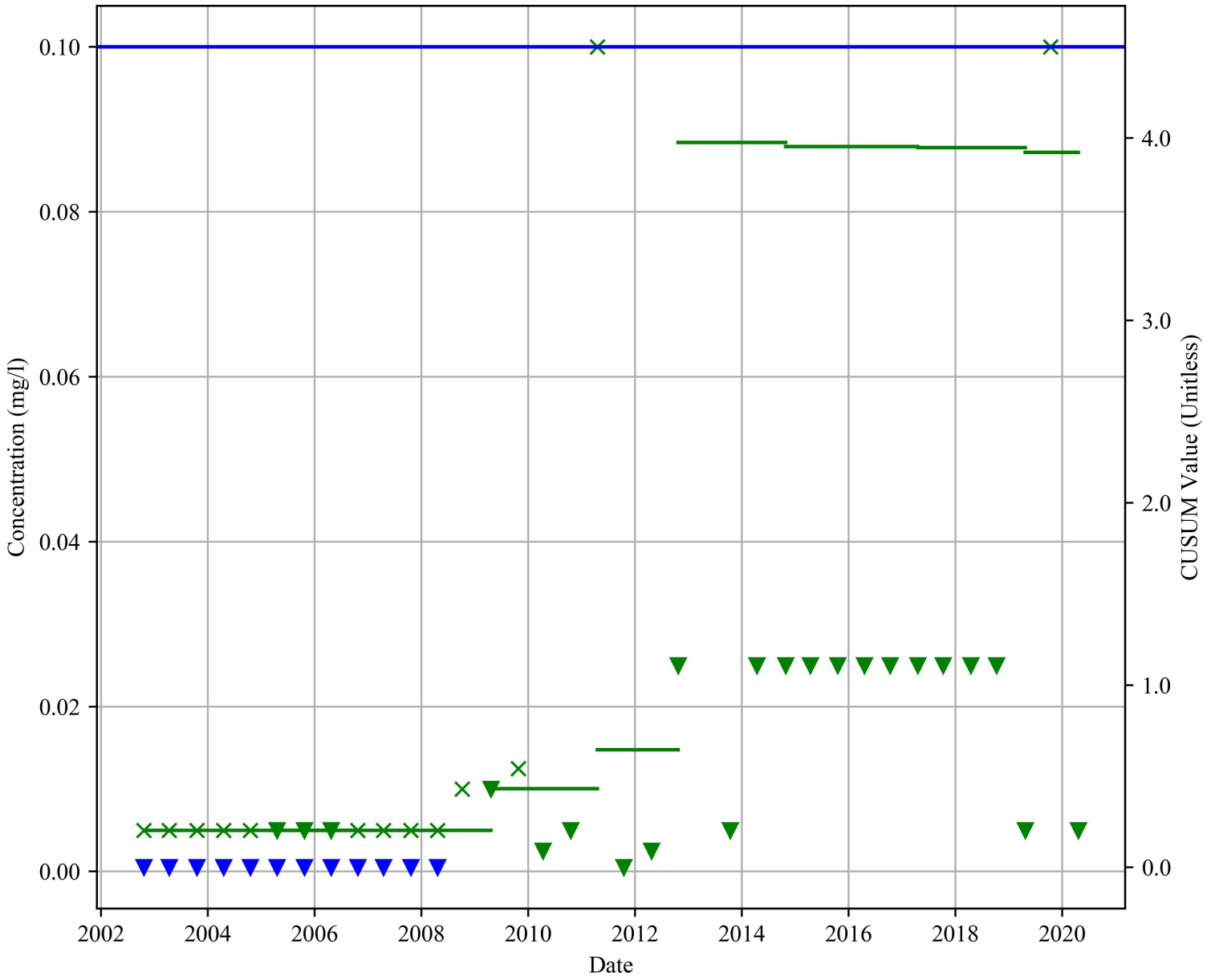
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-63:
Control Chart
MW 8A3
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

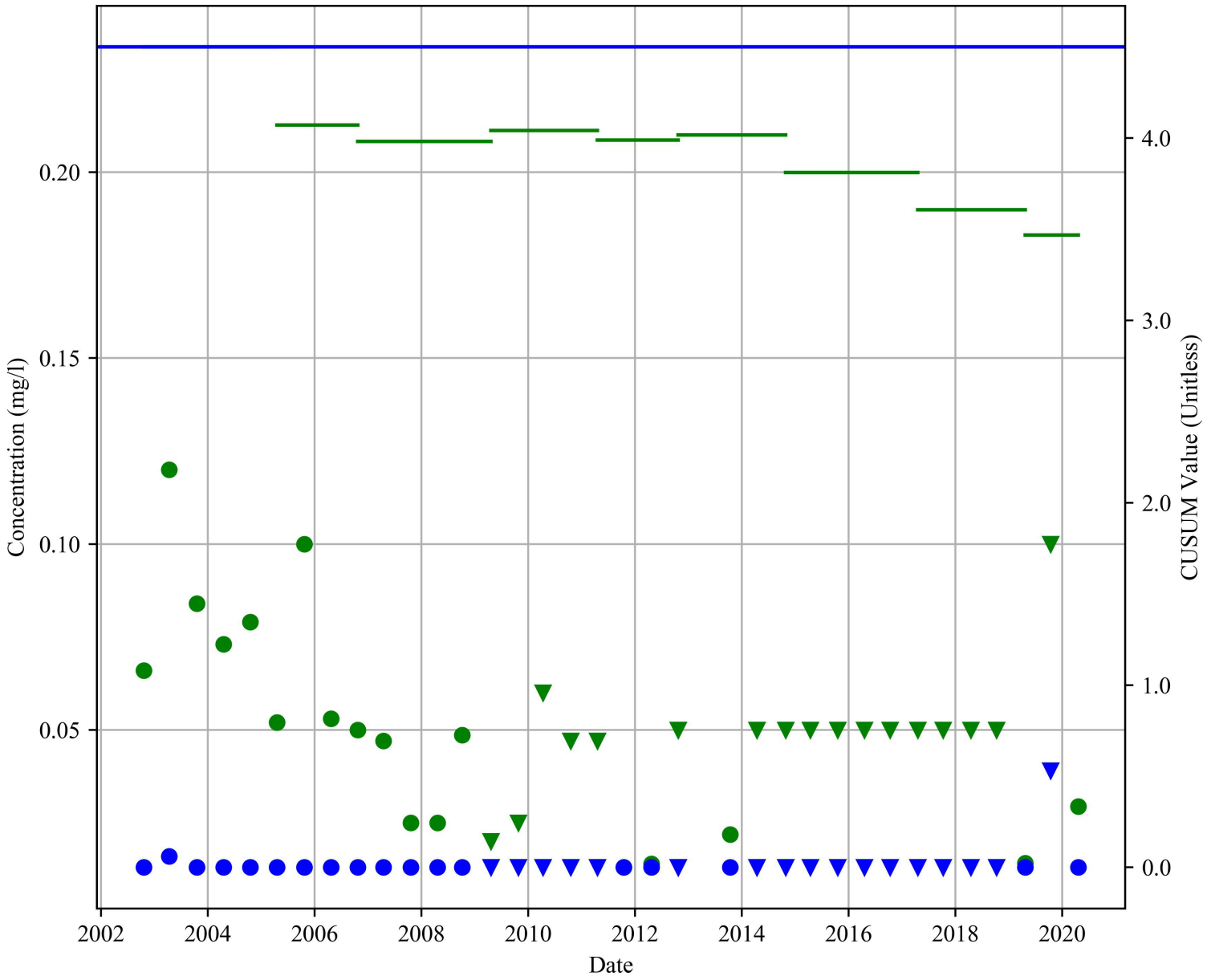
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-64:
Control Chart
MW 8A3
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

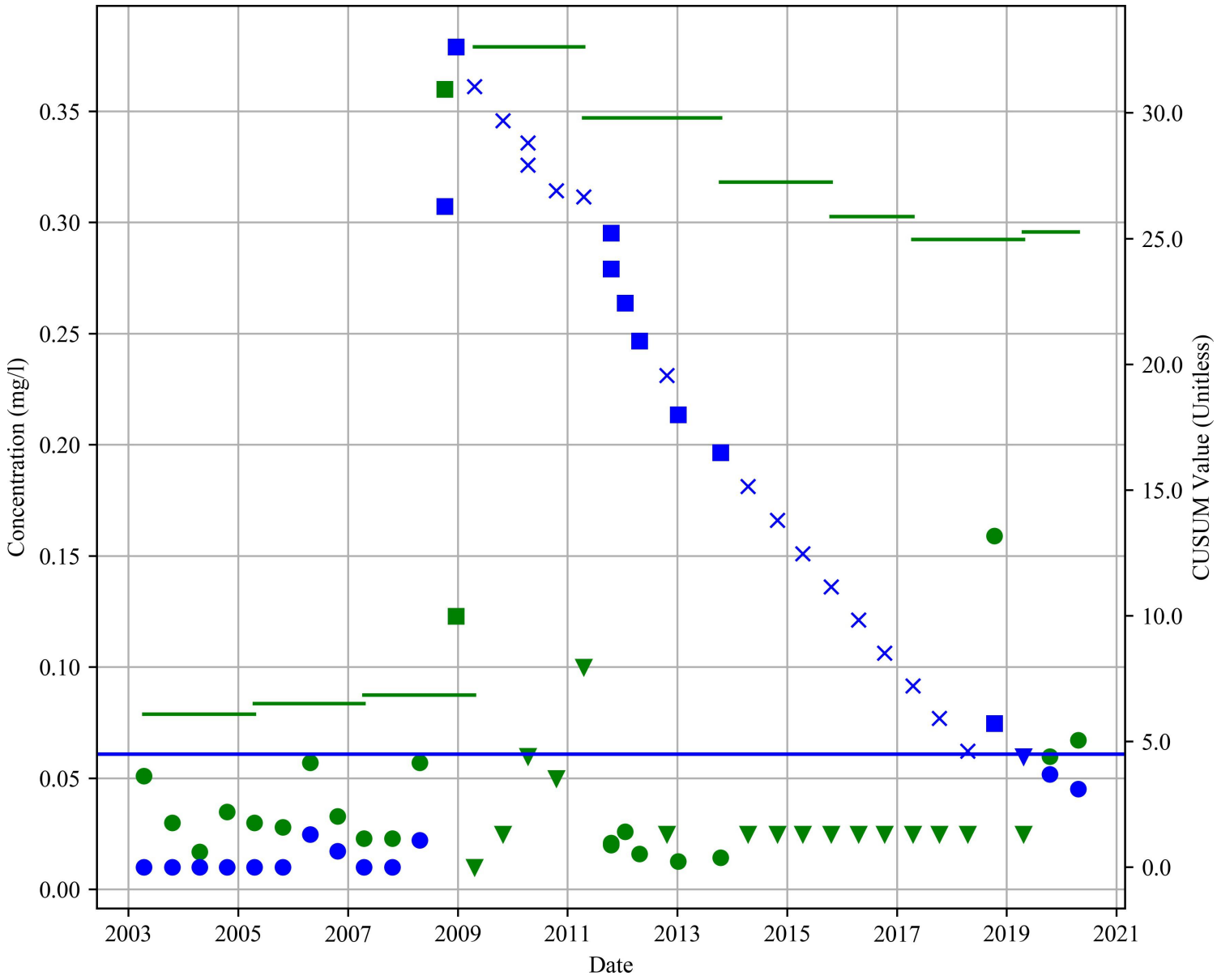
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-65:
Control Chart
MW 8A3
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

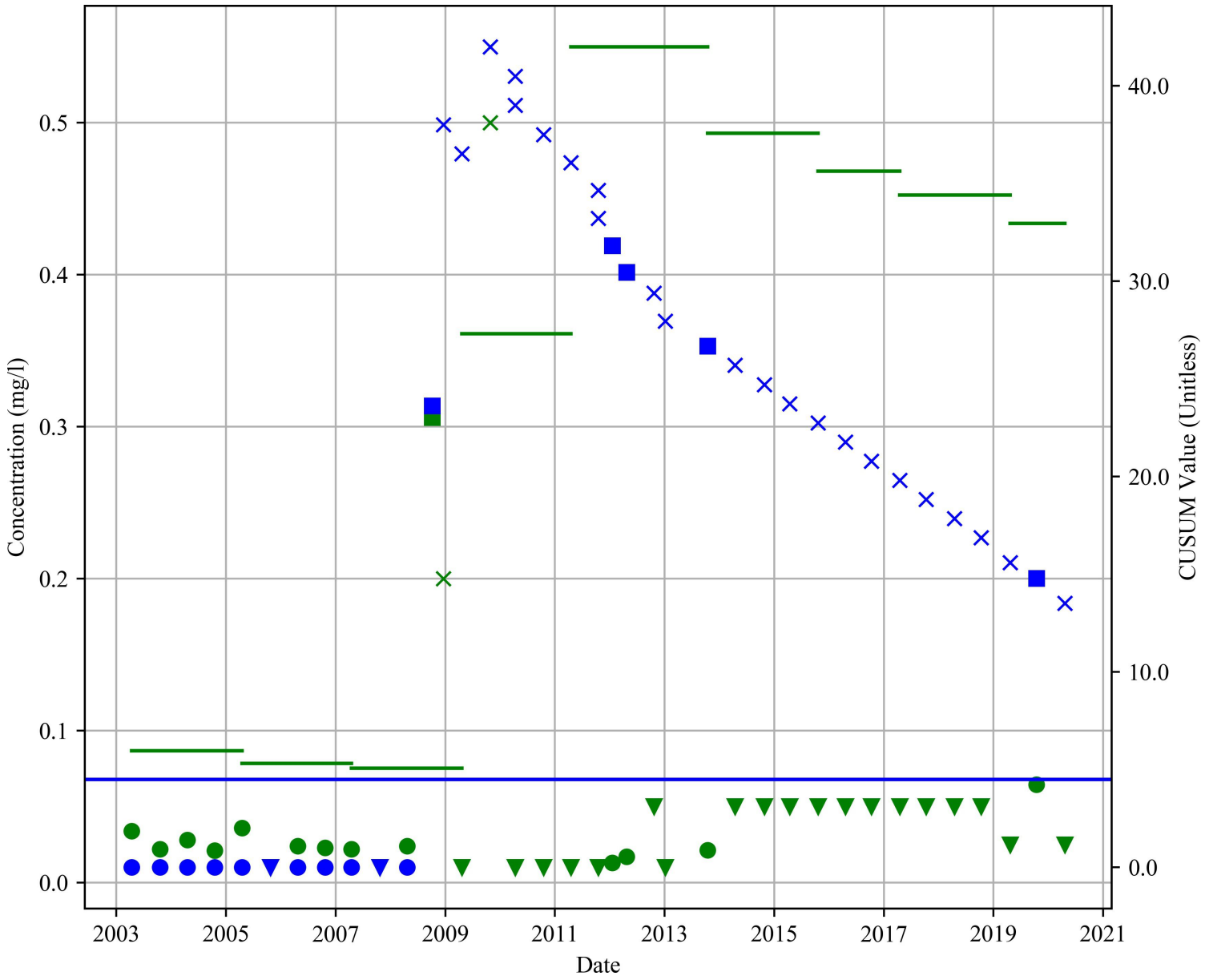
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-66:
Control Chart
MW 21
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

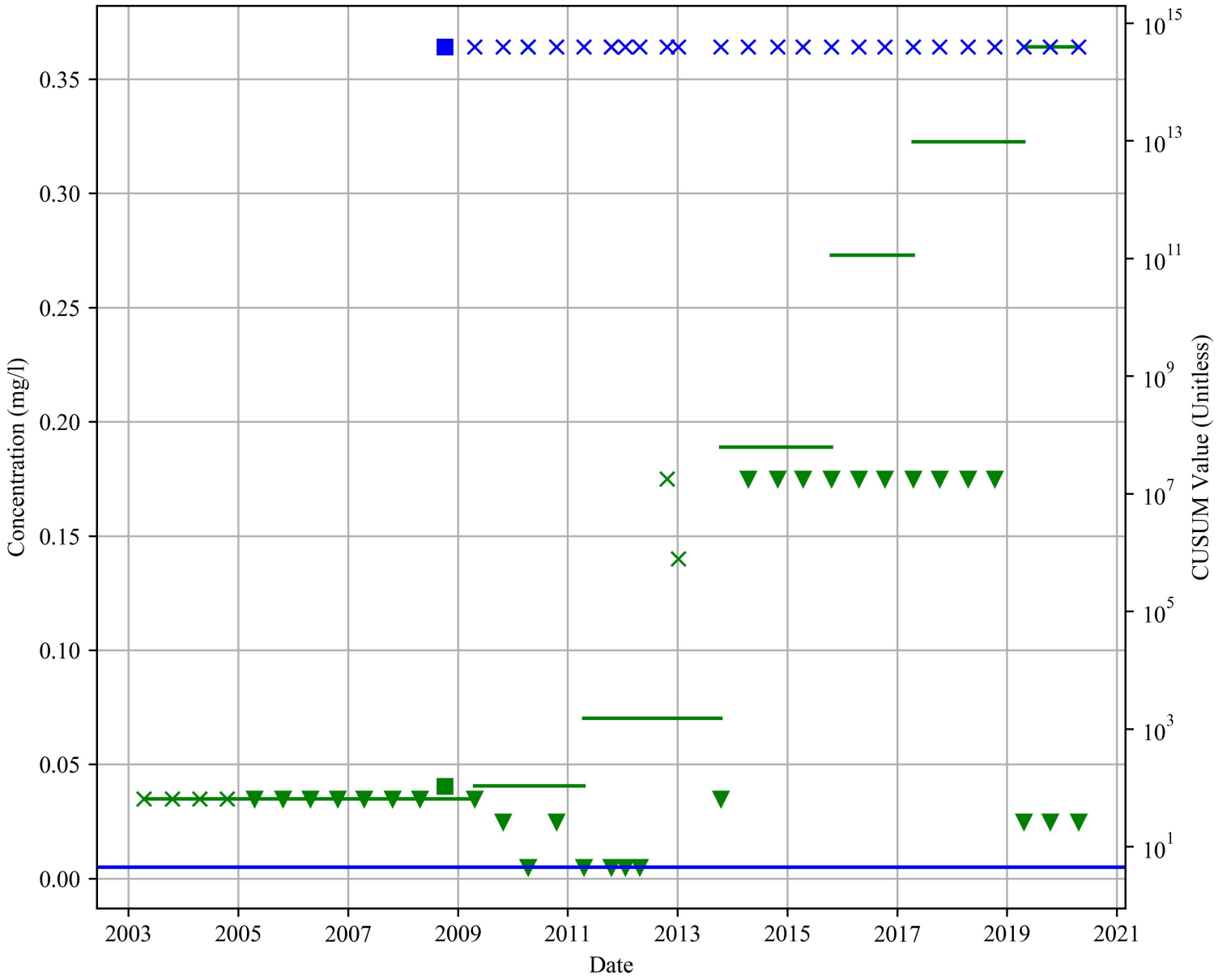
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-67:
Control Chart
MW 21
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

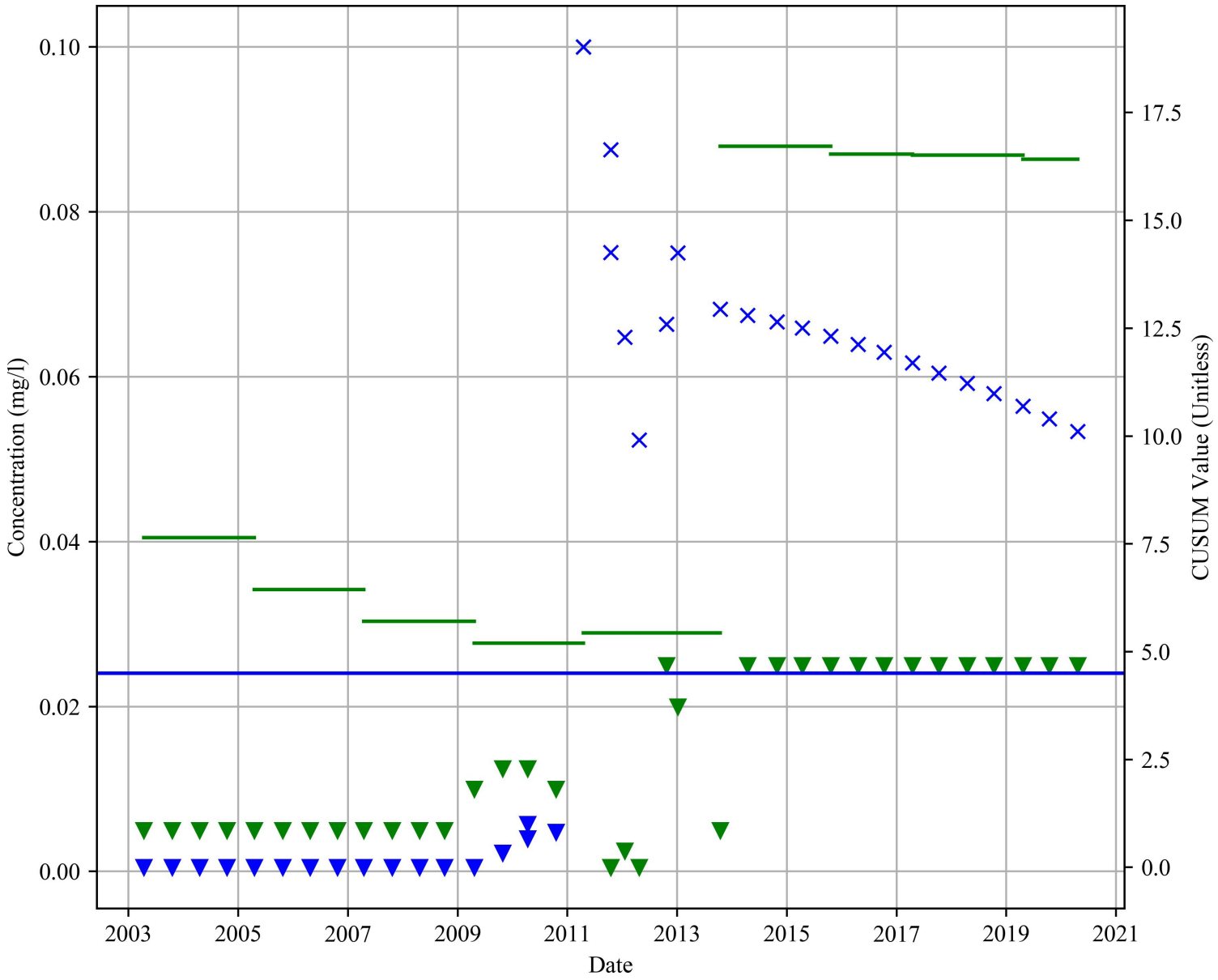
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-68:
Control Chart
MW 21
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

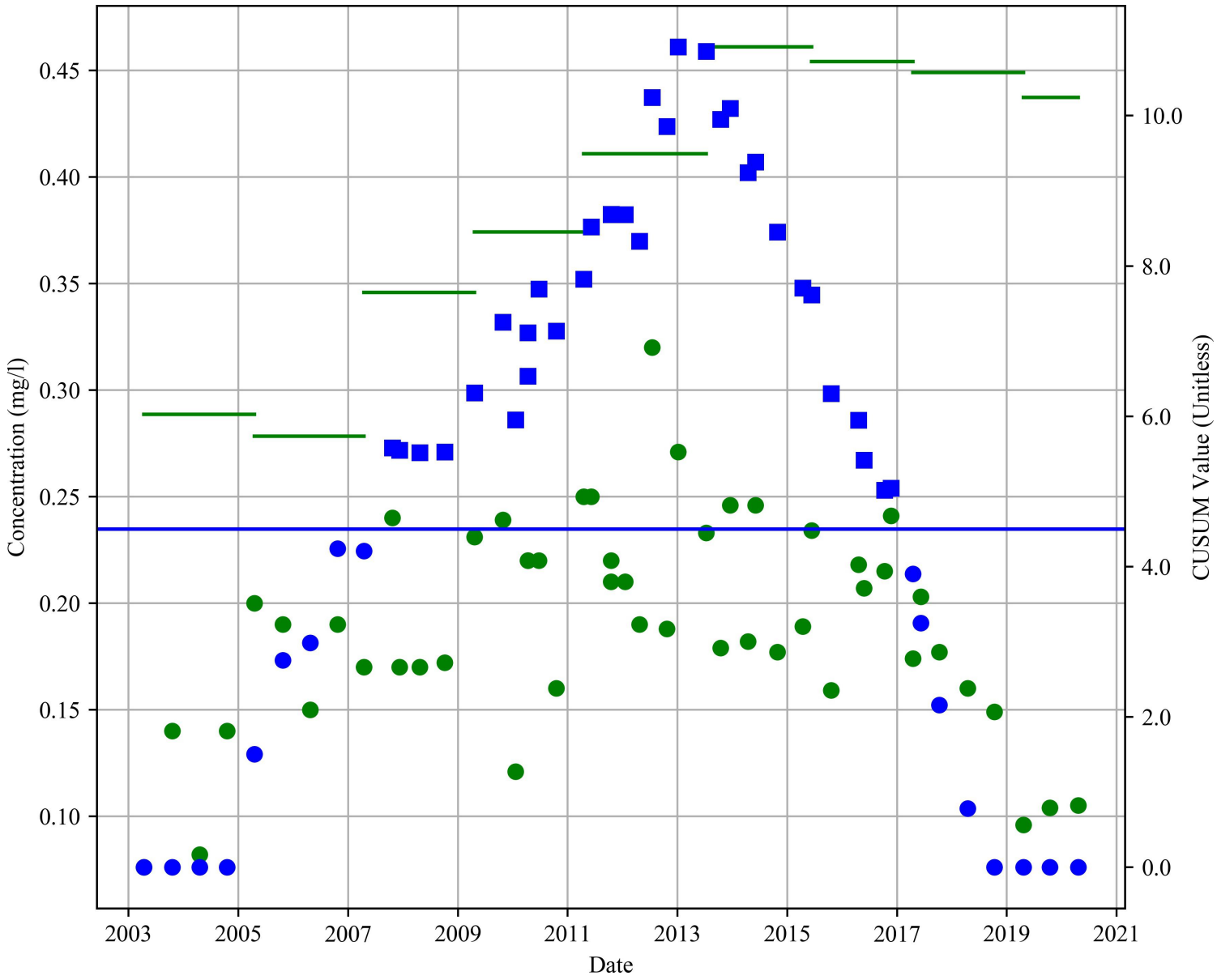
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-69:
Control Chart
MW 21
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail Value
- CUSUM Limit

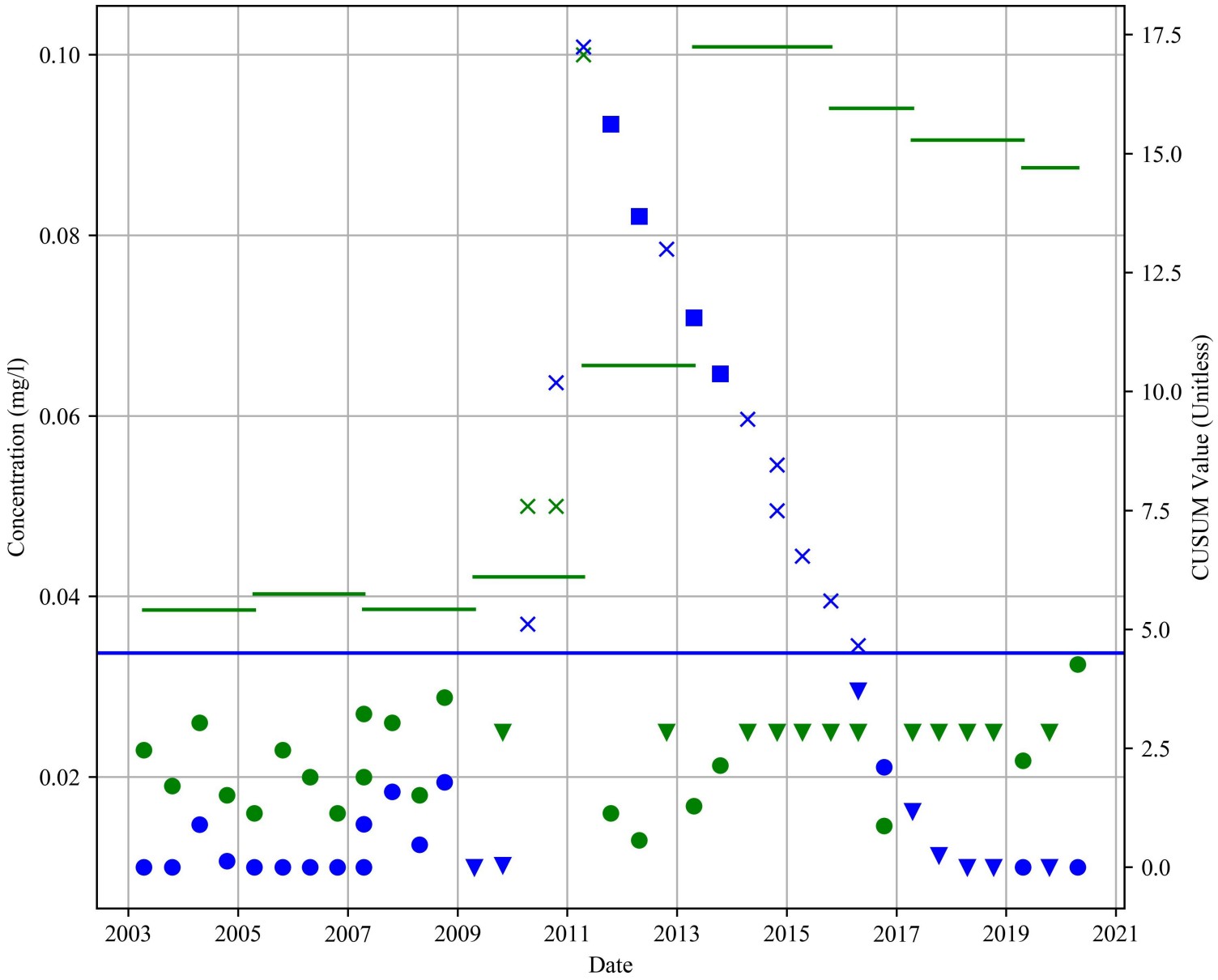
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-70:
Control Chart
MW 21
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

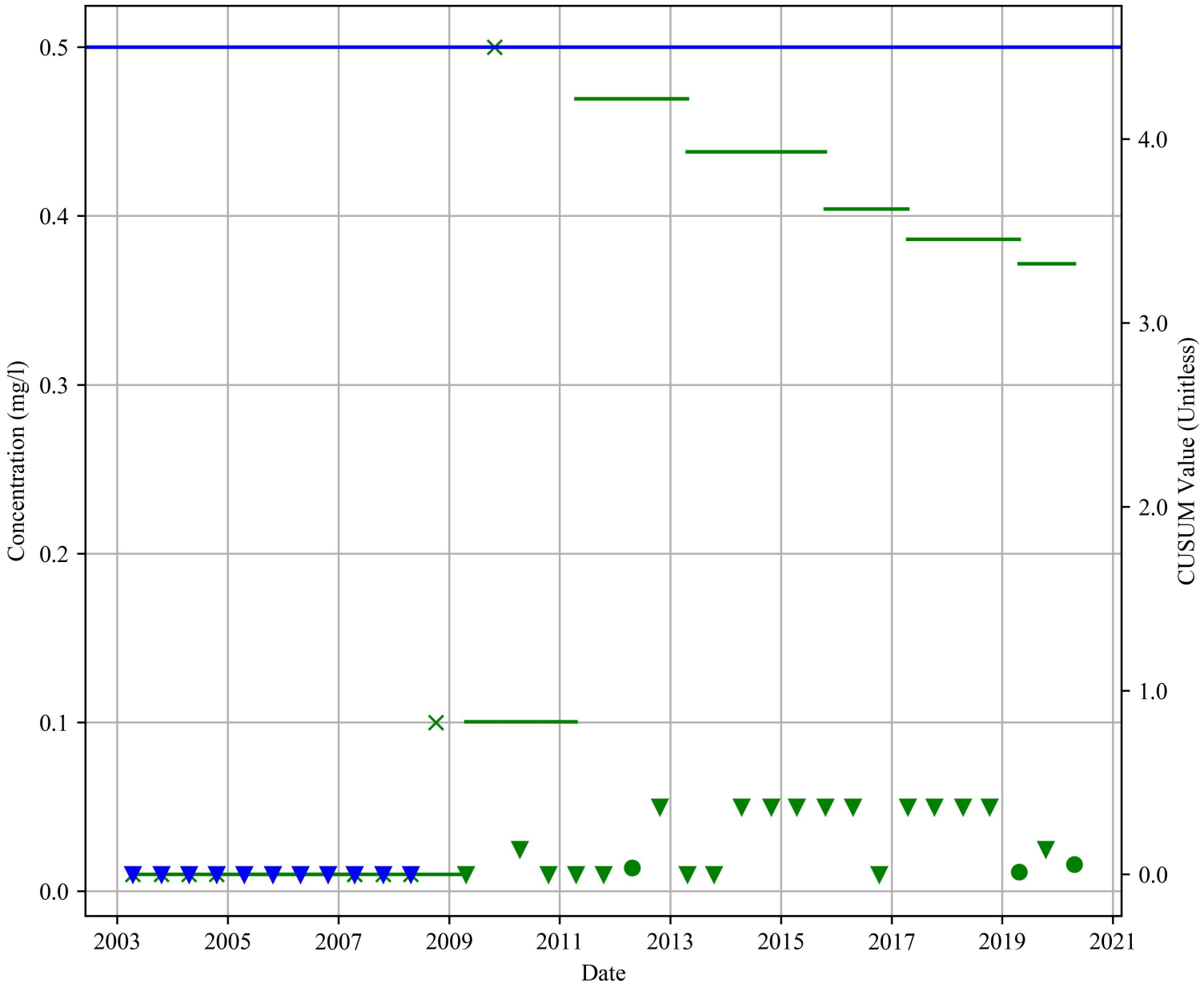
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-71:
Control Chart
MW 22
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

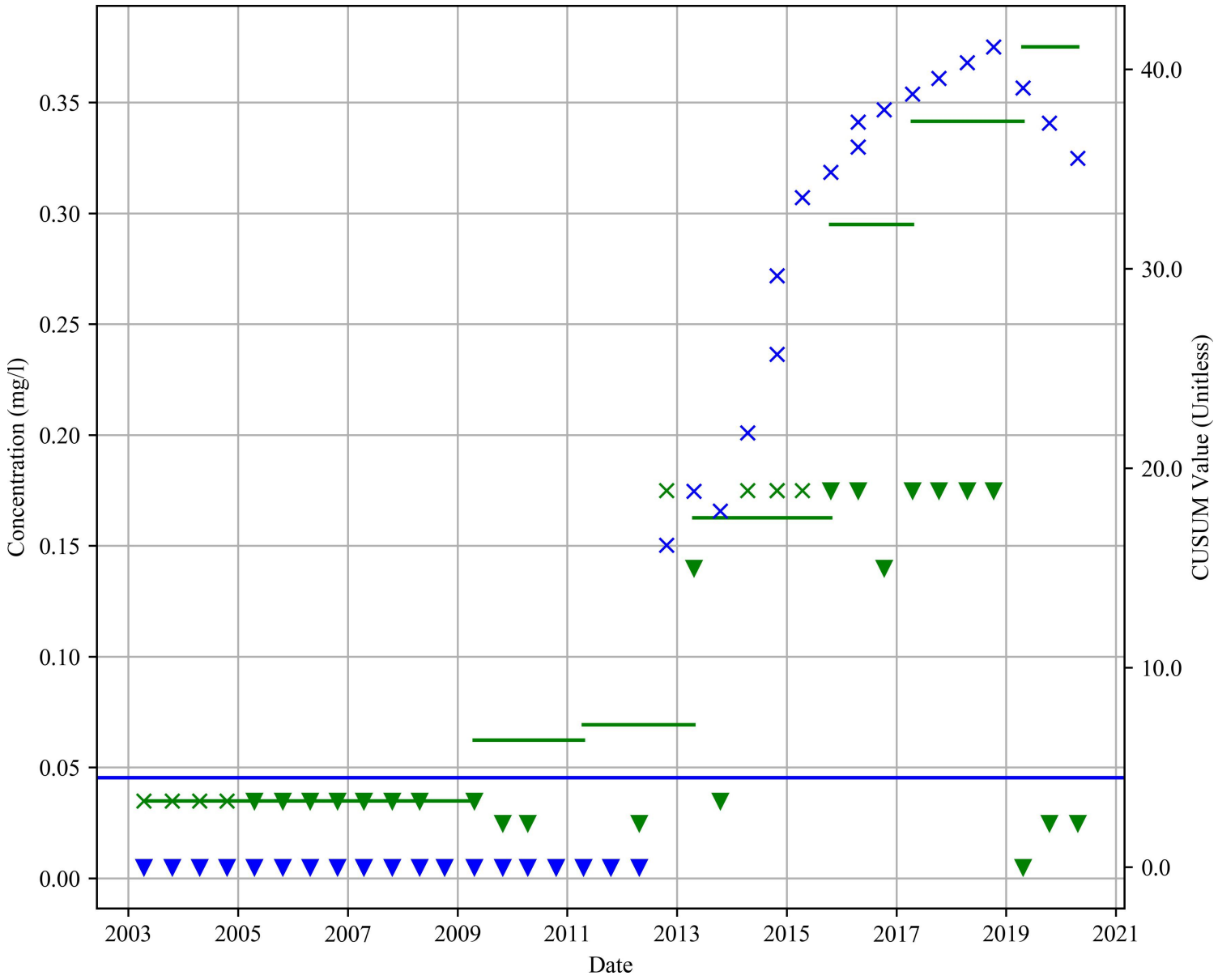
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-72:
Control Chart
MW 22
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

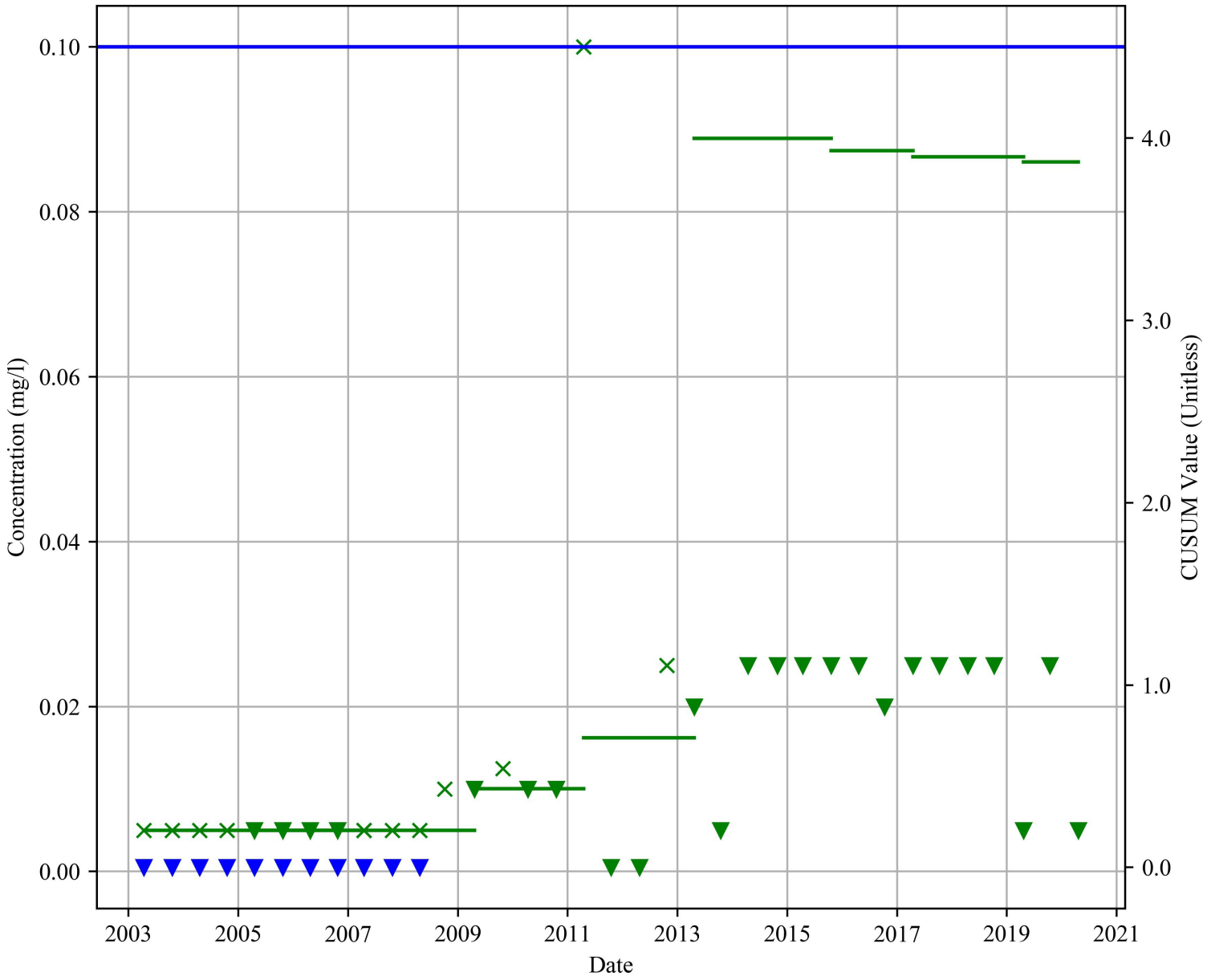
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-73:
Control Chart
MW 22
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

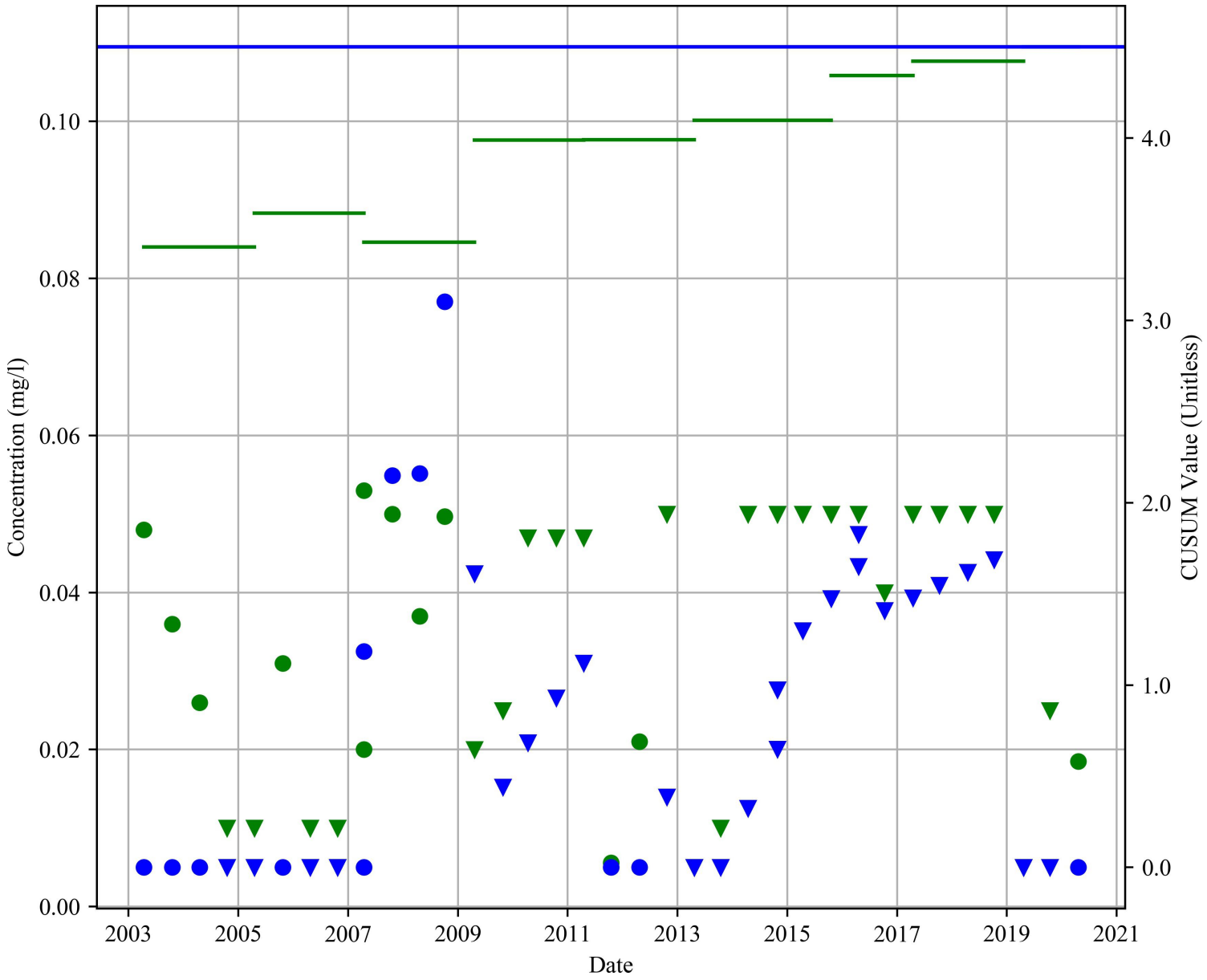
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-74:
Control Chart
MW 22
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

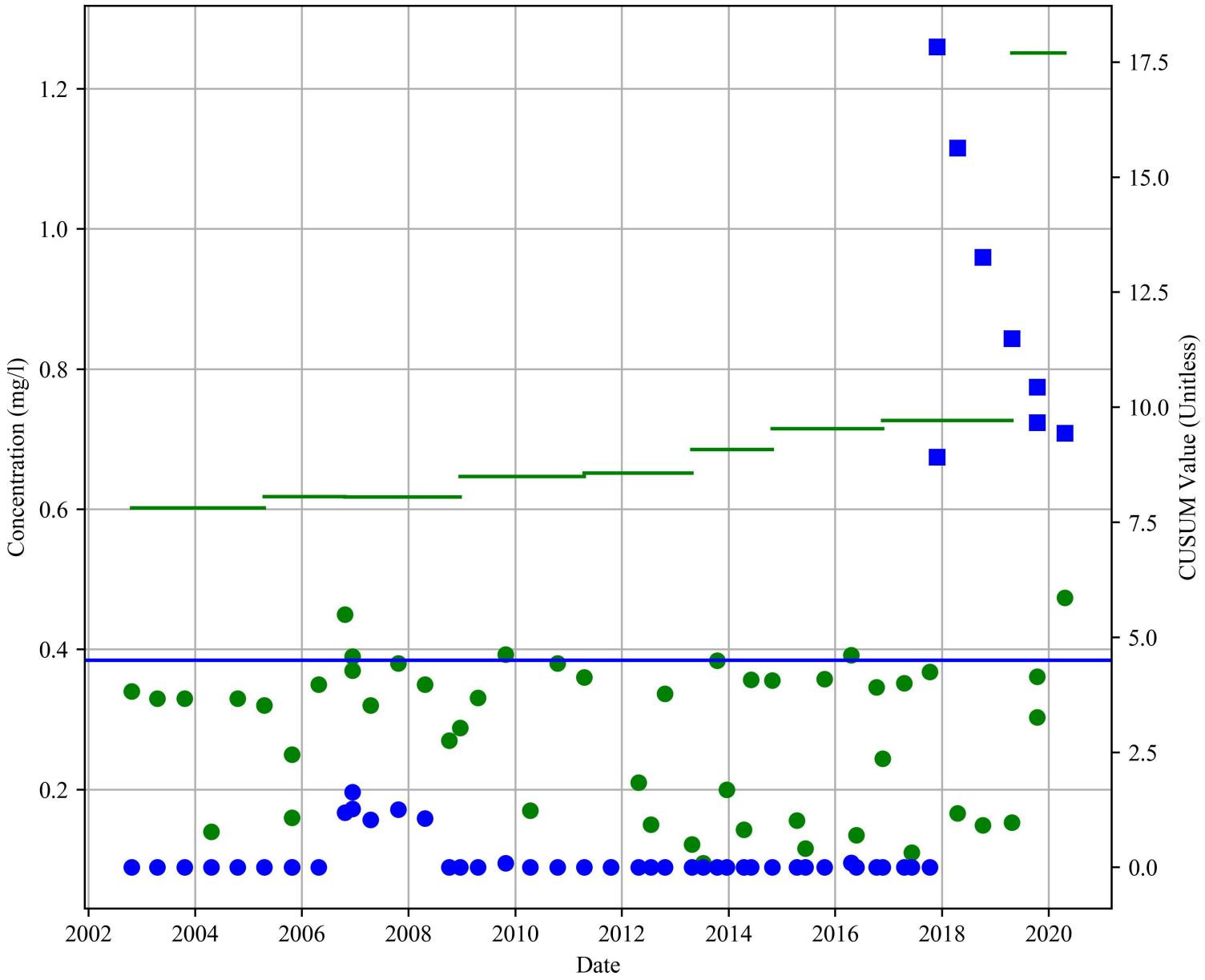
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-75:
Control Chart
MW 22
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail Value
- CUSUM Limit

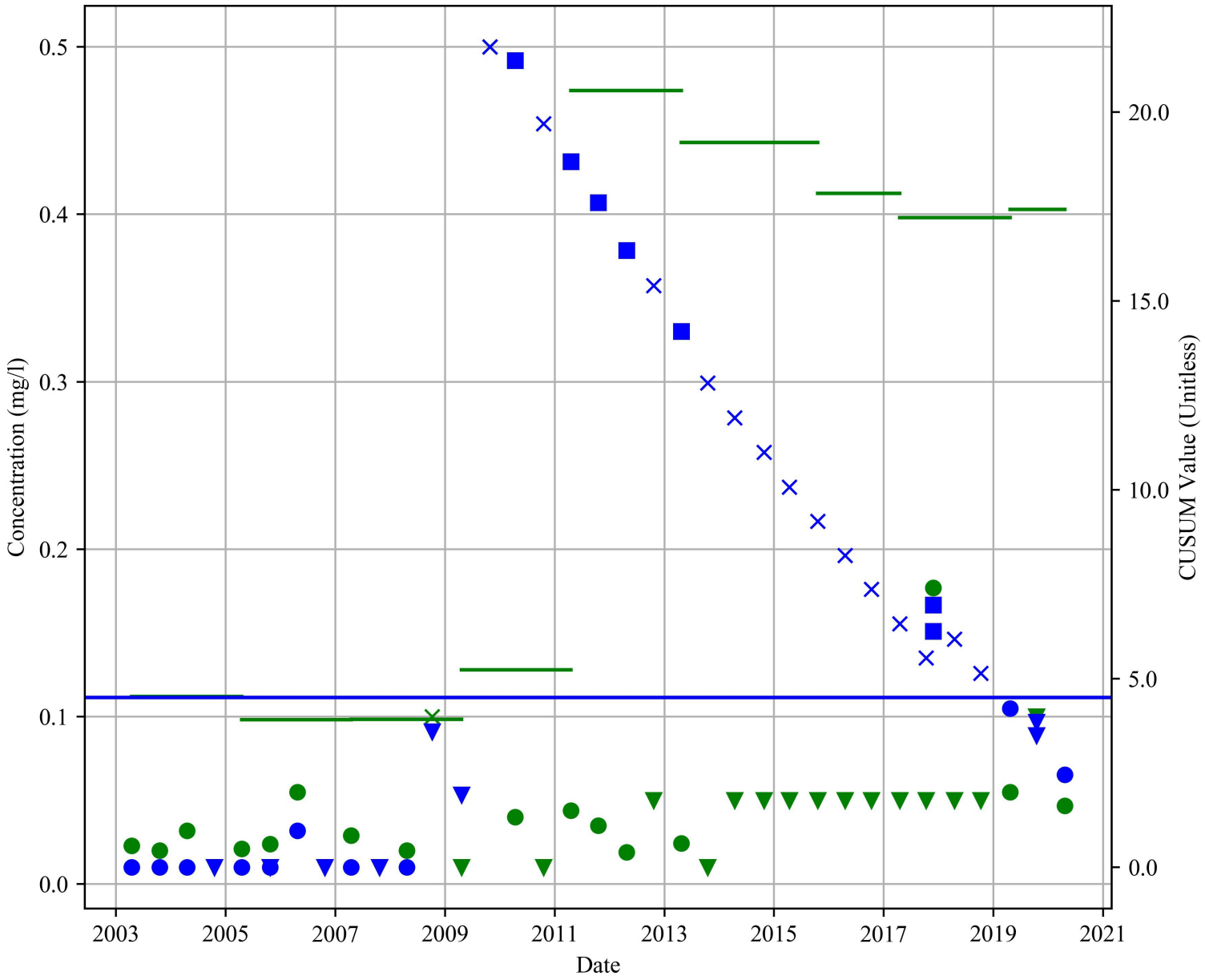
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-76:
Control Chart
MW 11A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

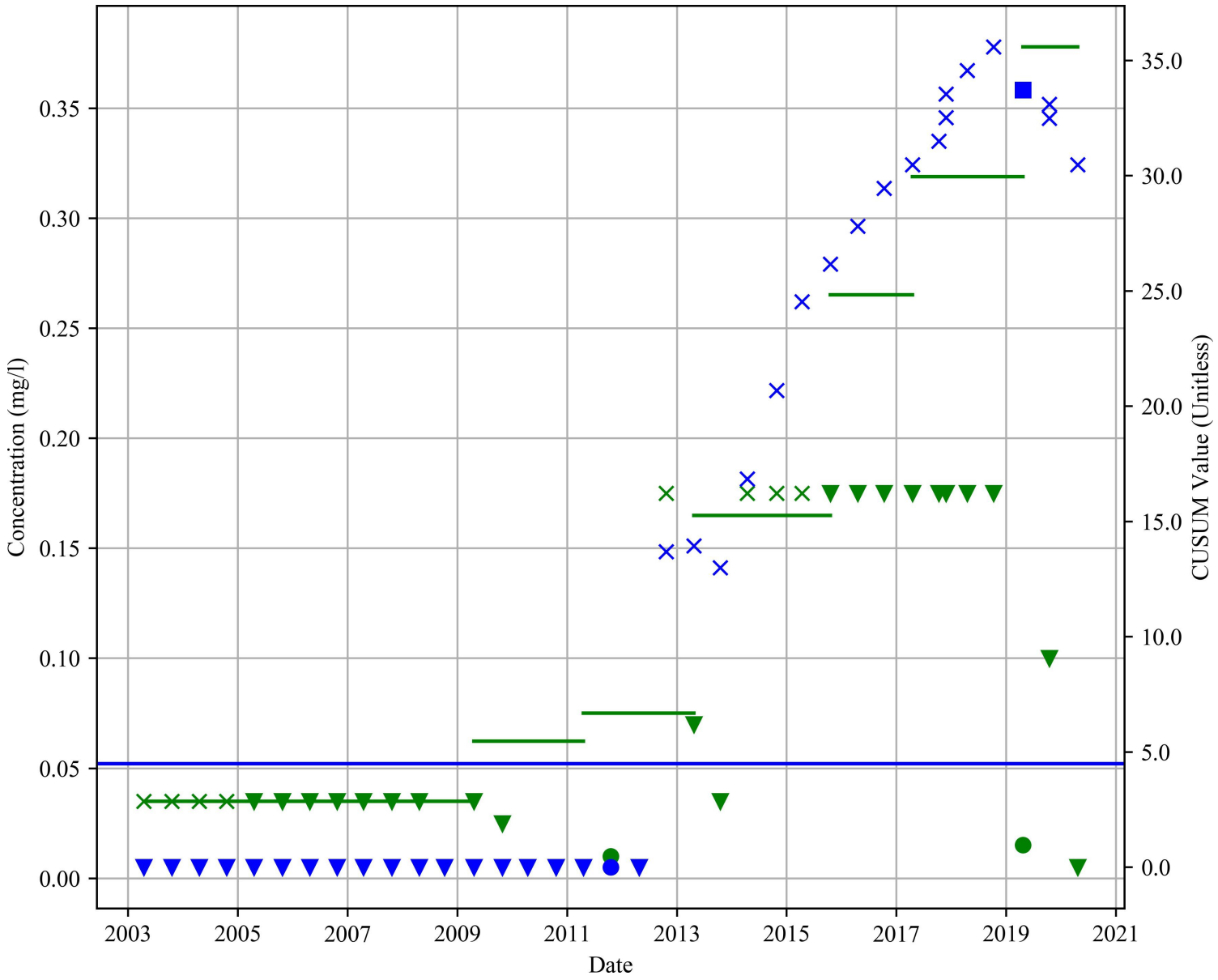
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-77:
Control Chart
MW 11A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

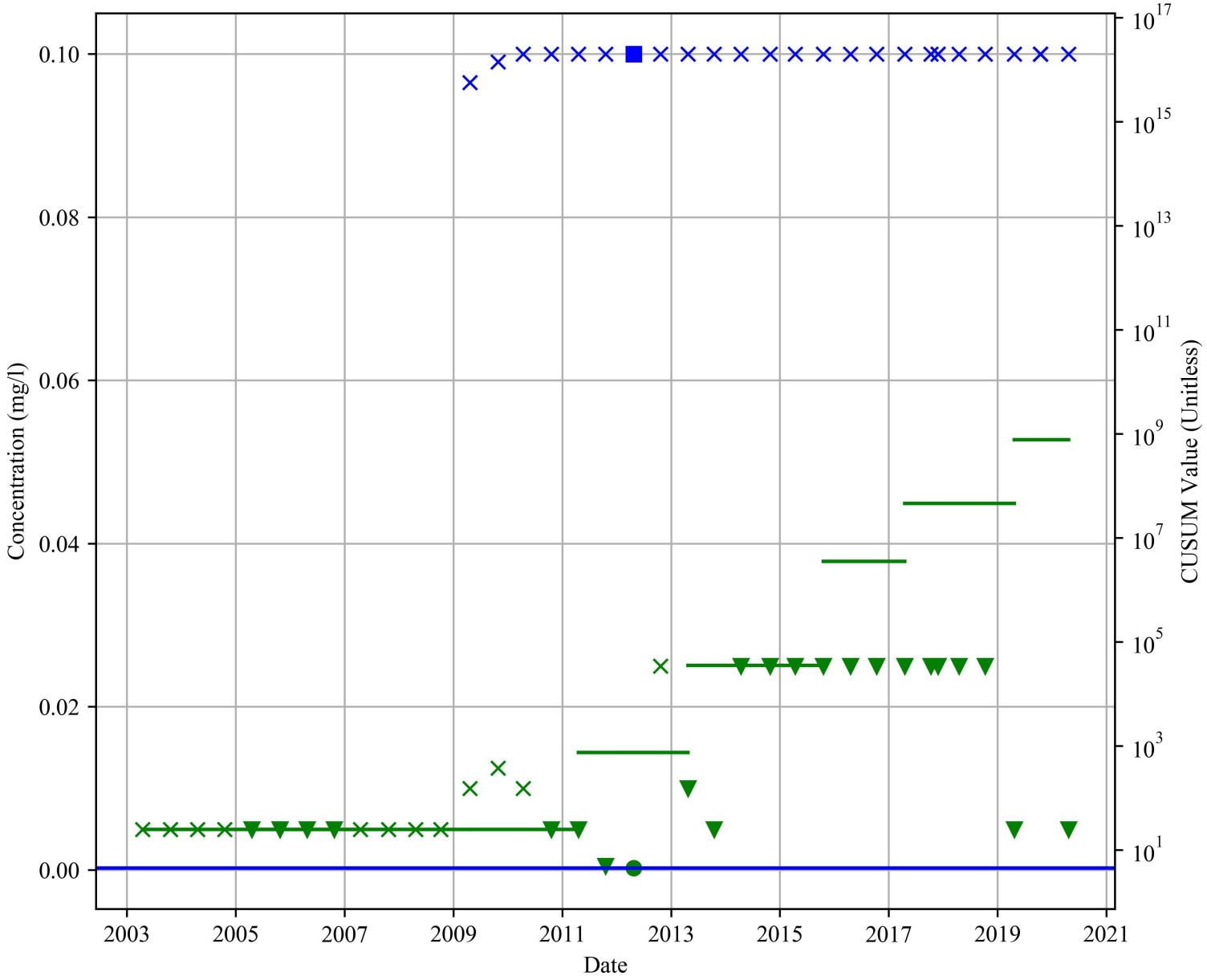
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-78:
Control Chart
MW 11A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

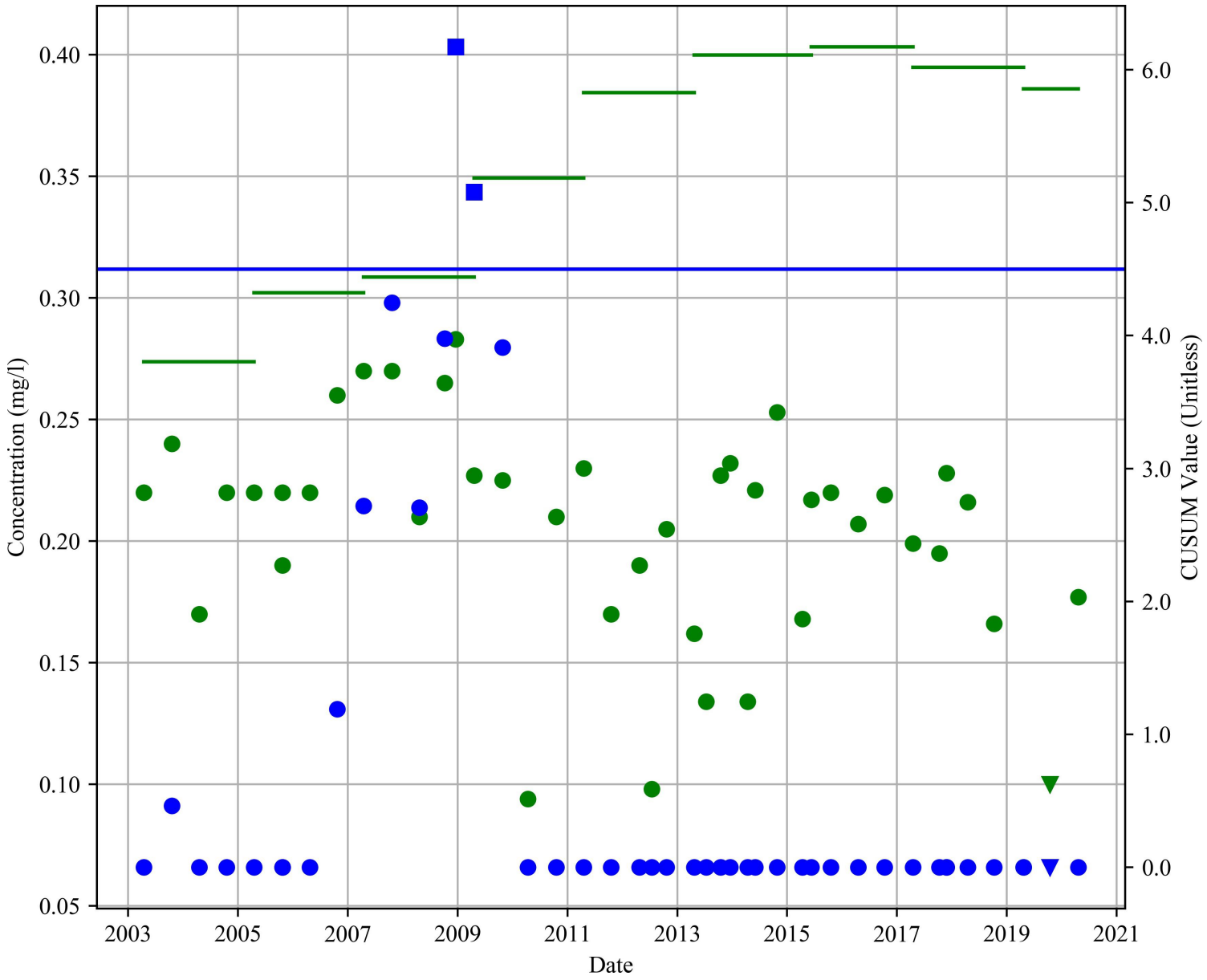
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-79:
Control Chart
MW 11A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail Value
- CUSUM Limit

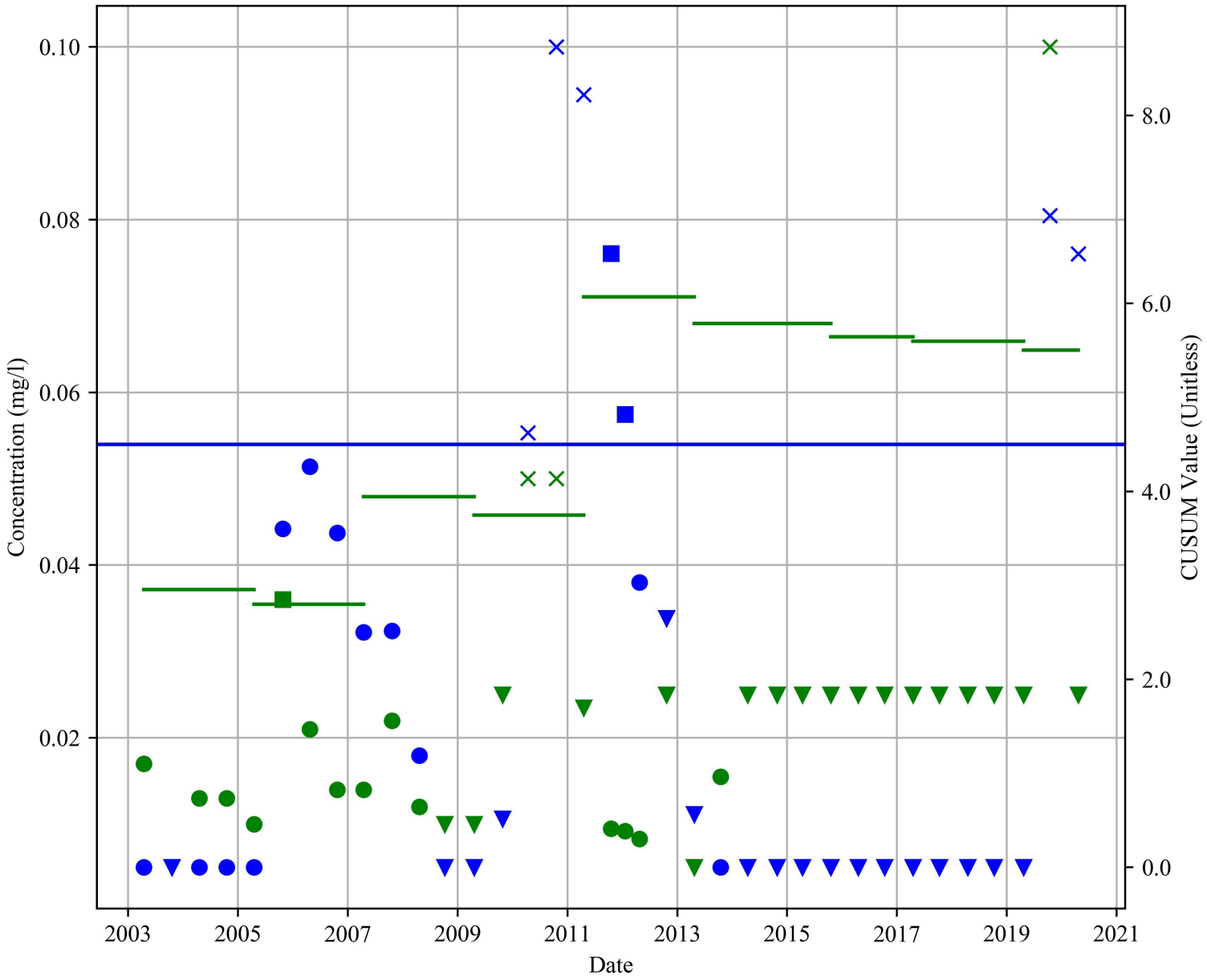
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-80:
Control Chart
MW 11A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

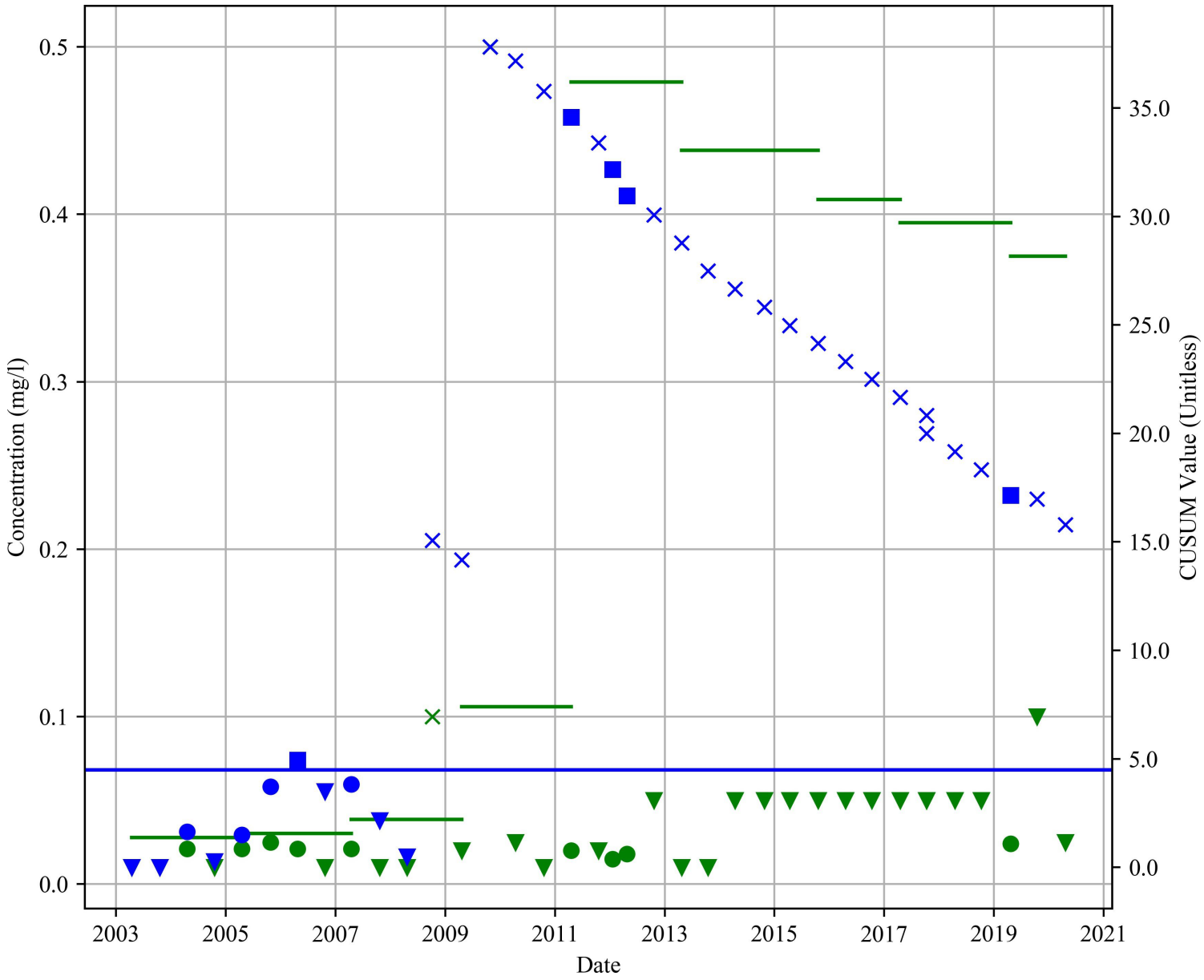
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-81:
Control Chart
MW 11A4
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

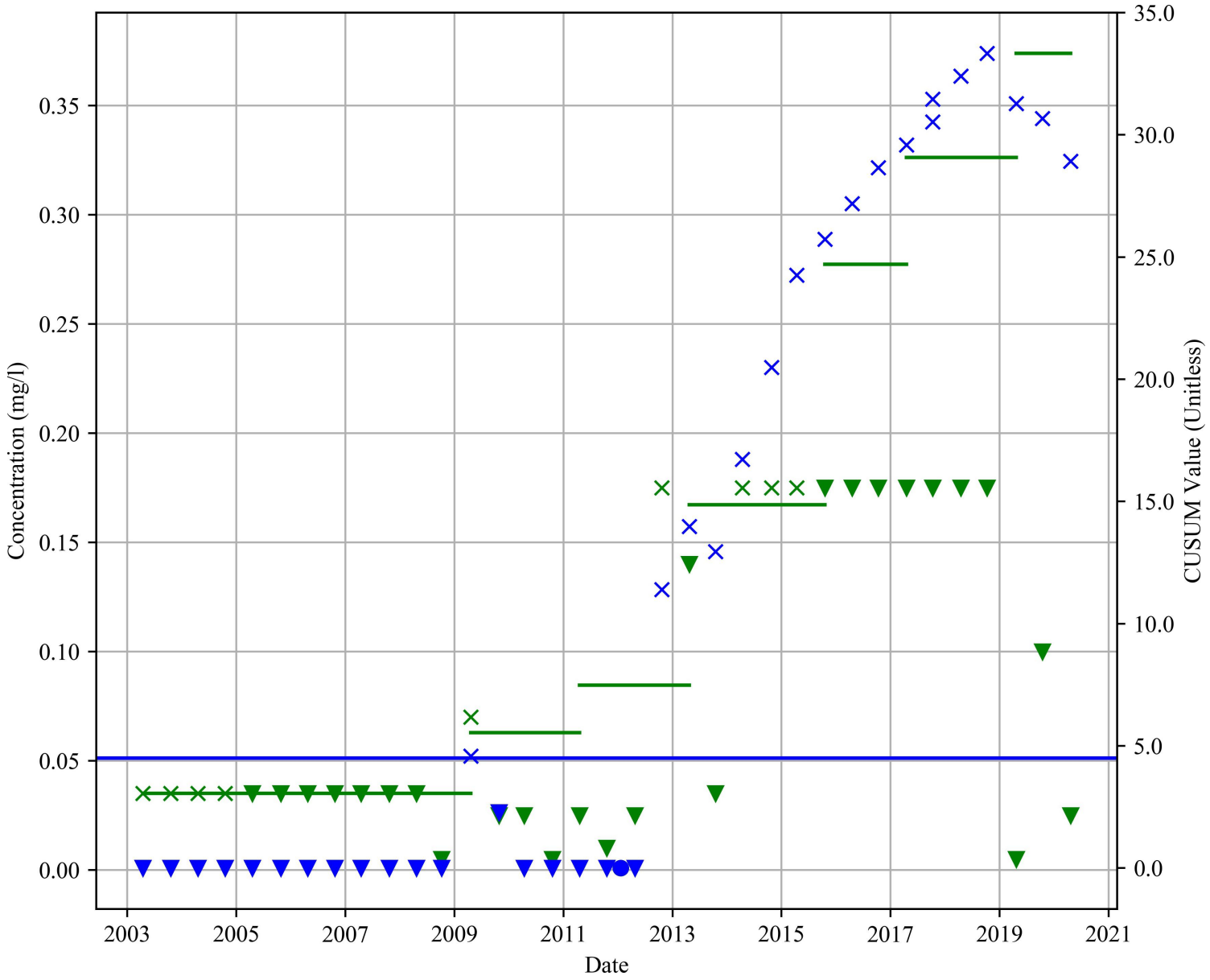
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-82:
Control Chart
MW 11A4
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

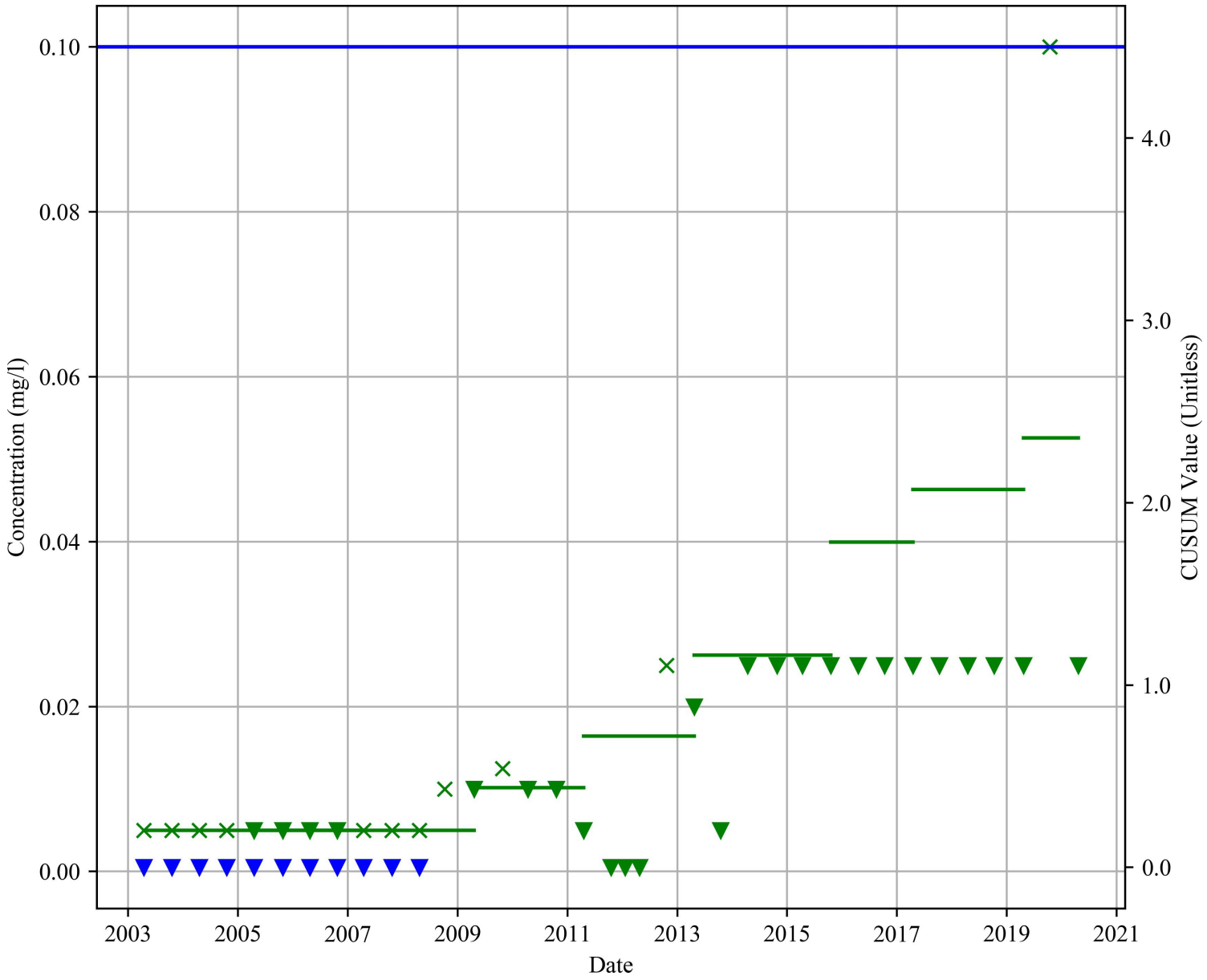
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-83:
Control Chart
MW 11A4
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

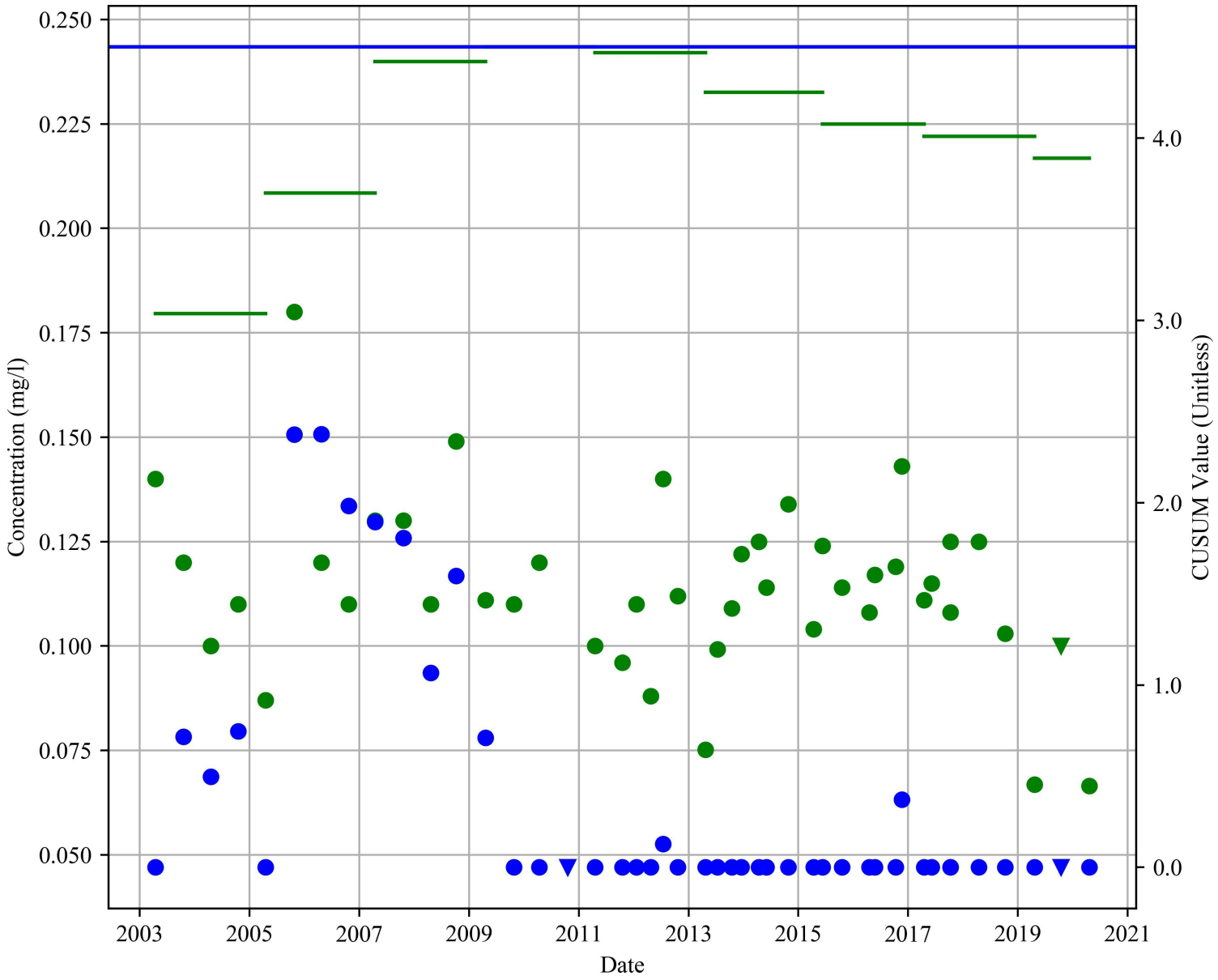
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-84:
Control Chart
MW 11A4
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

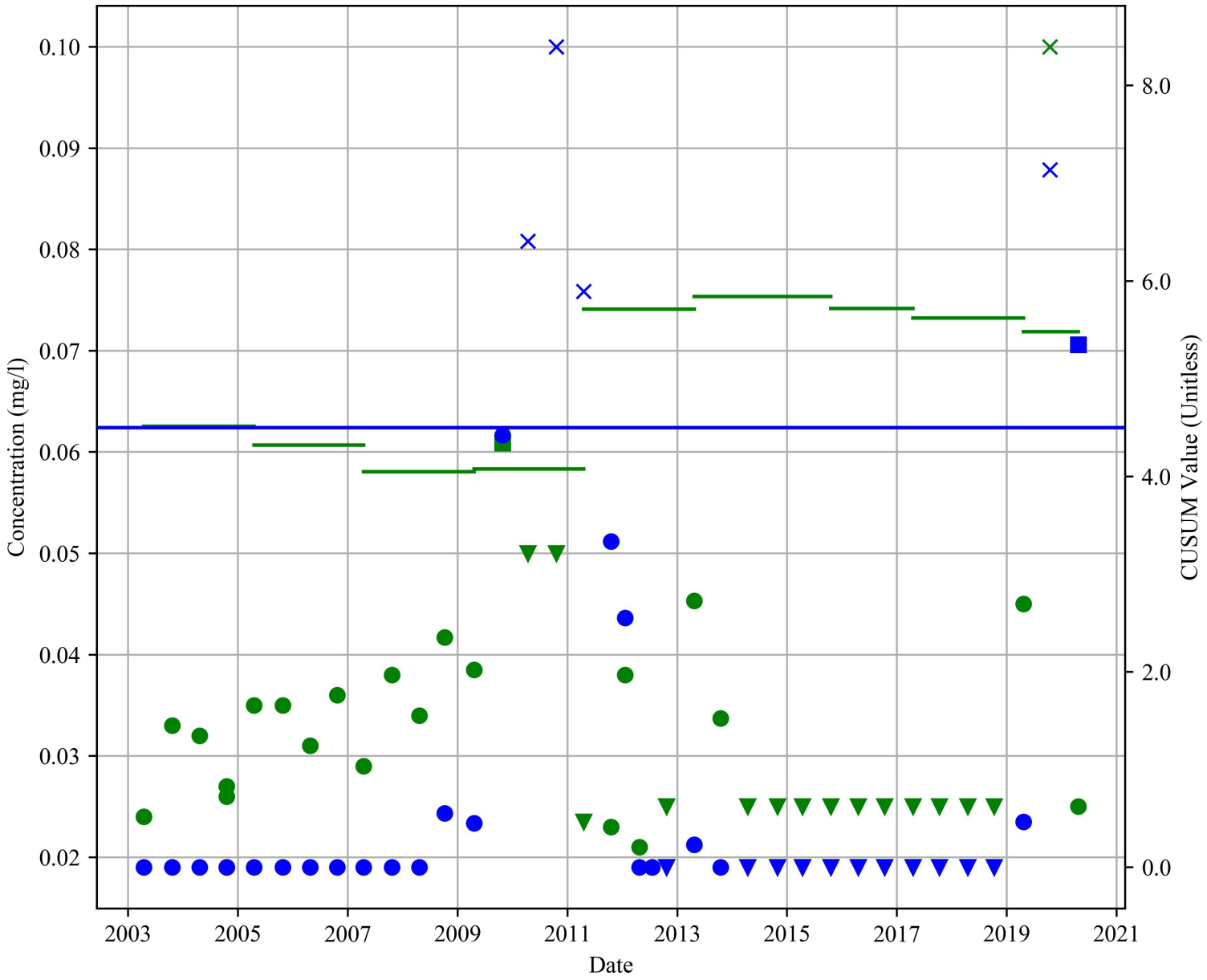
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-85:
Control Chart
MW 11A4
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

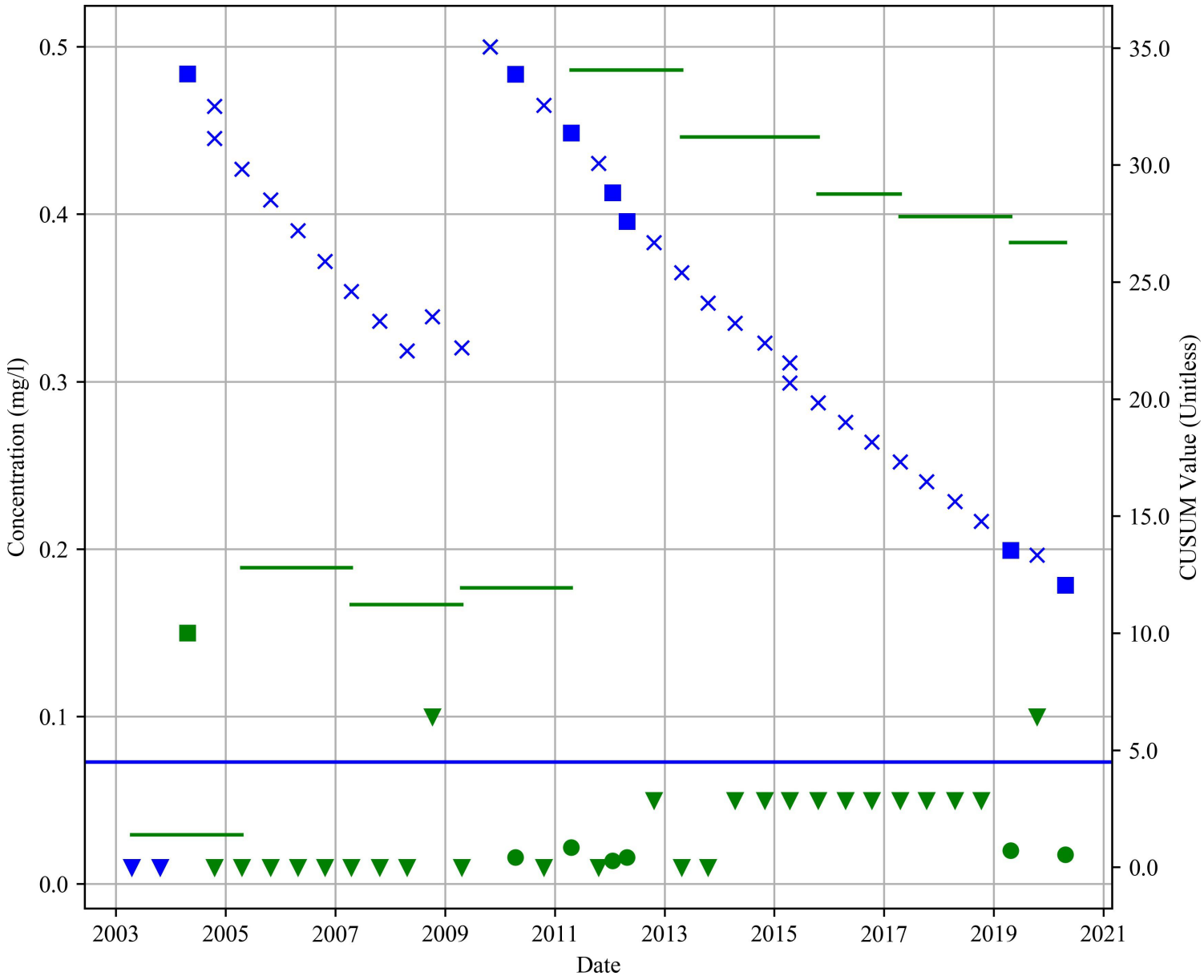
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-86:
Control Chart
MW 11A5
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

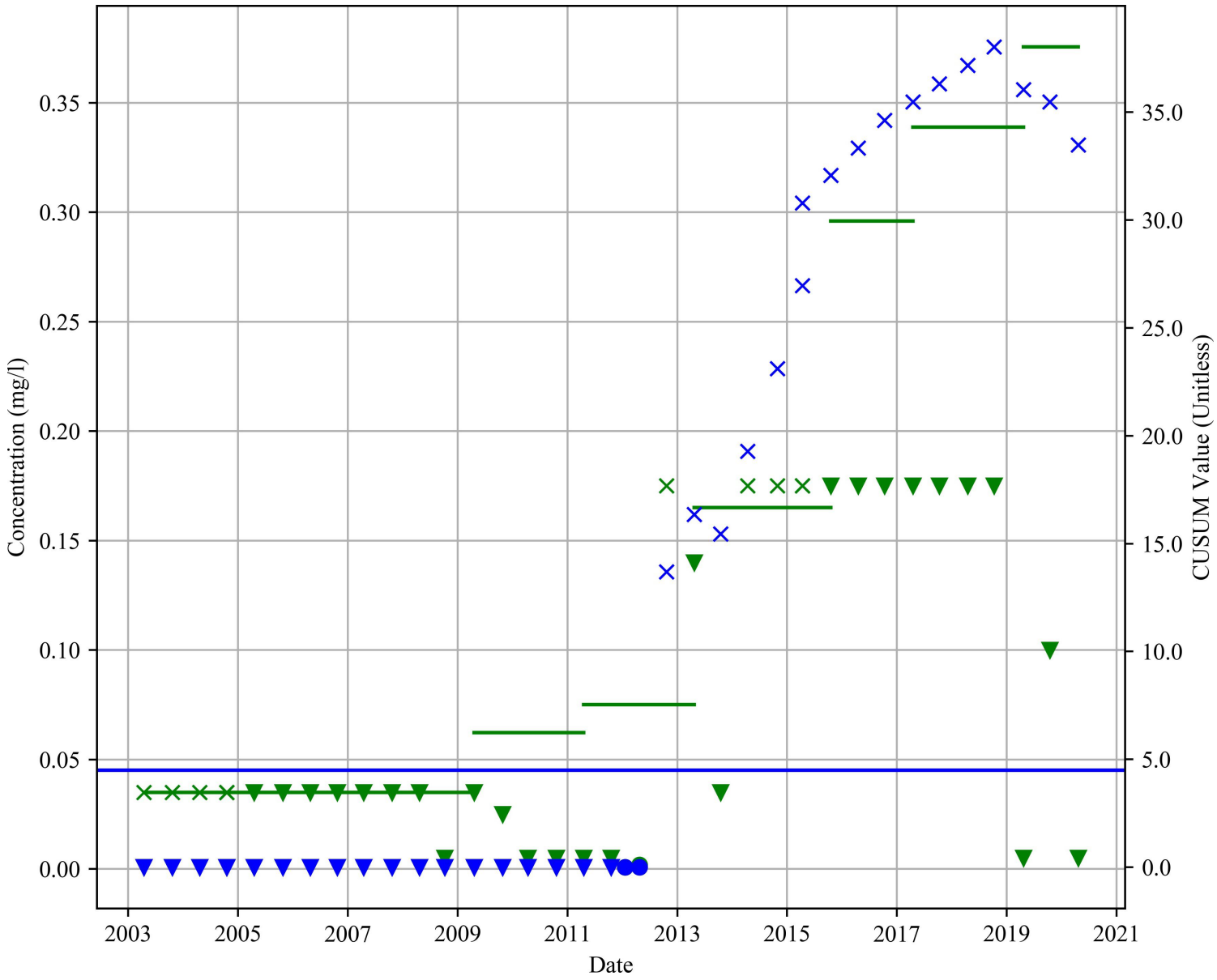
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-87:
Control Chart
MW 11A5
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

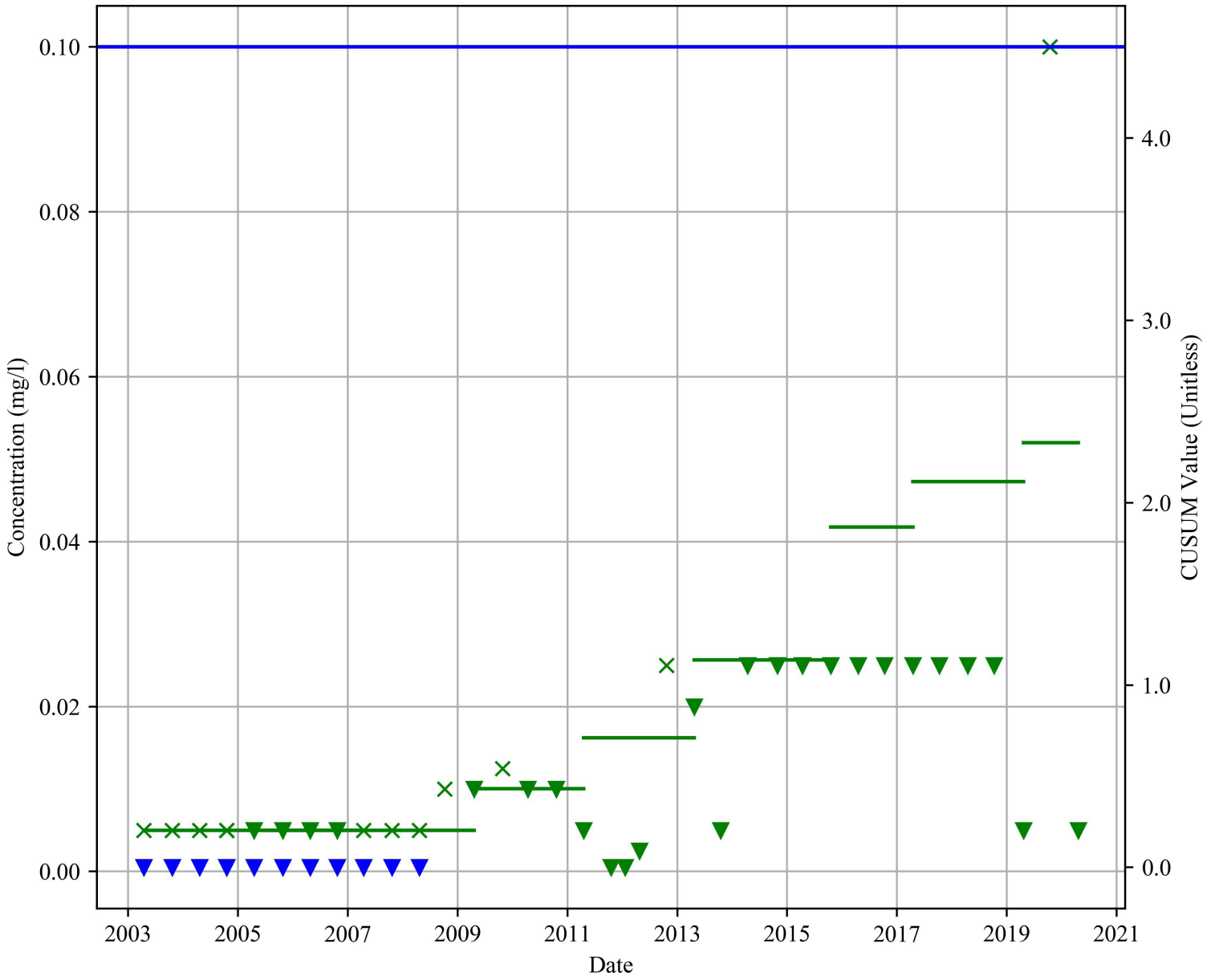
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-88:
Control Chart
MW 11A5
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

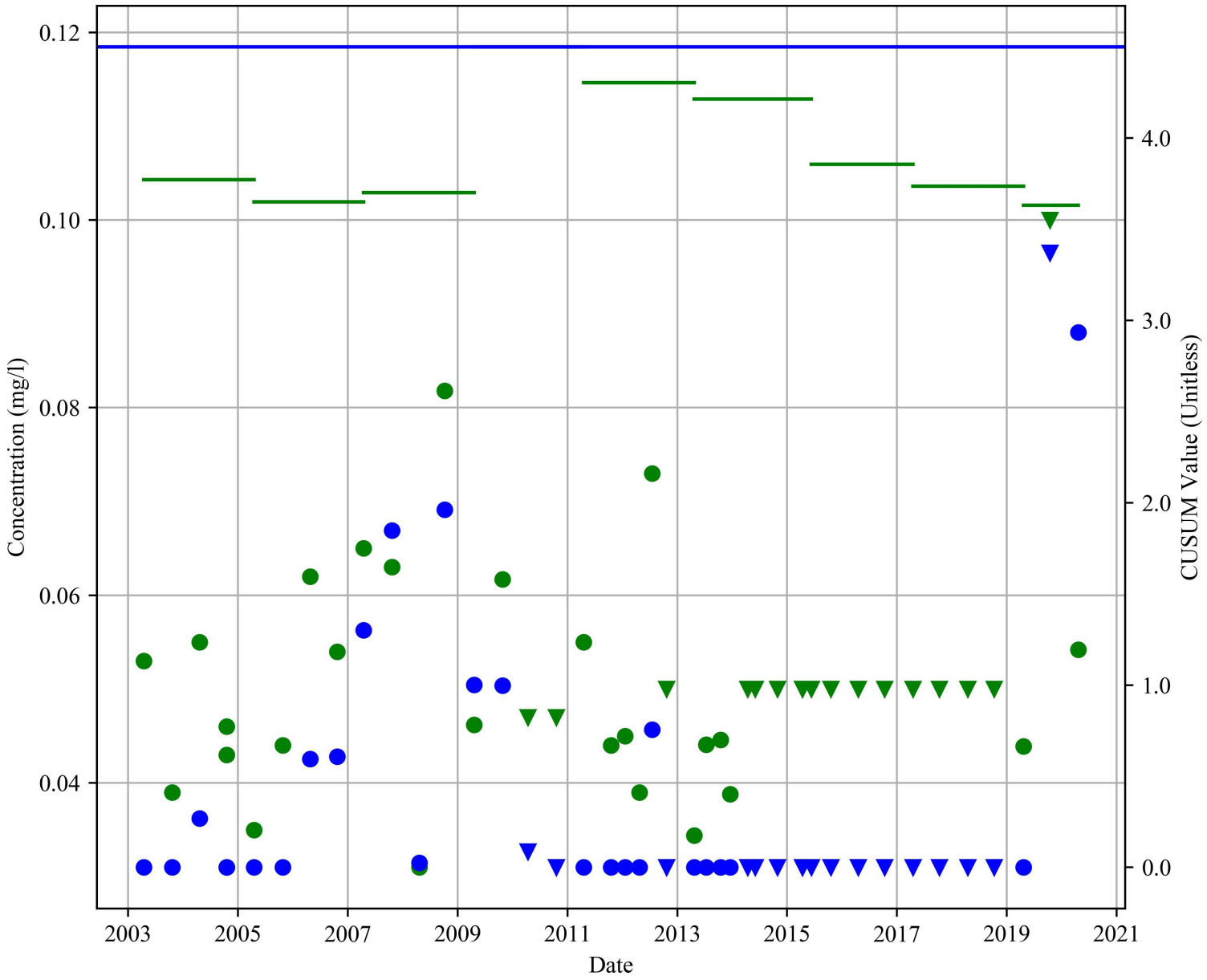
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-89:
Control Chart
MW 11A5
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

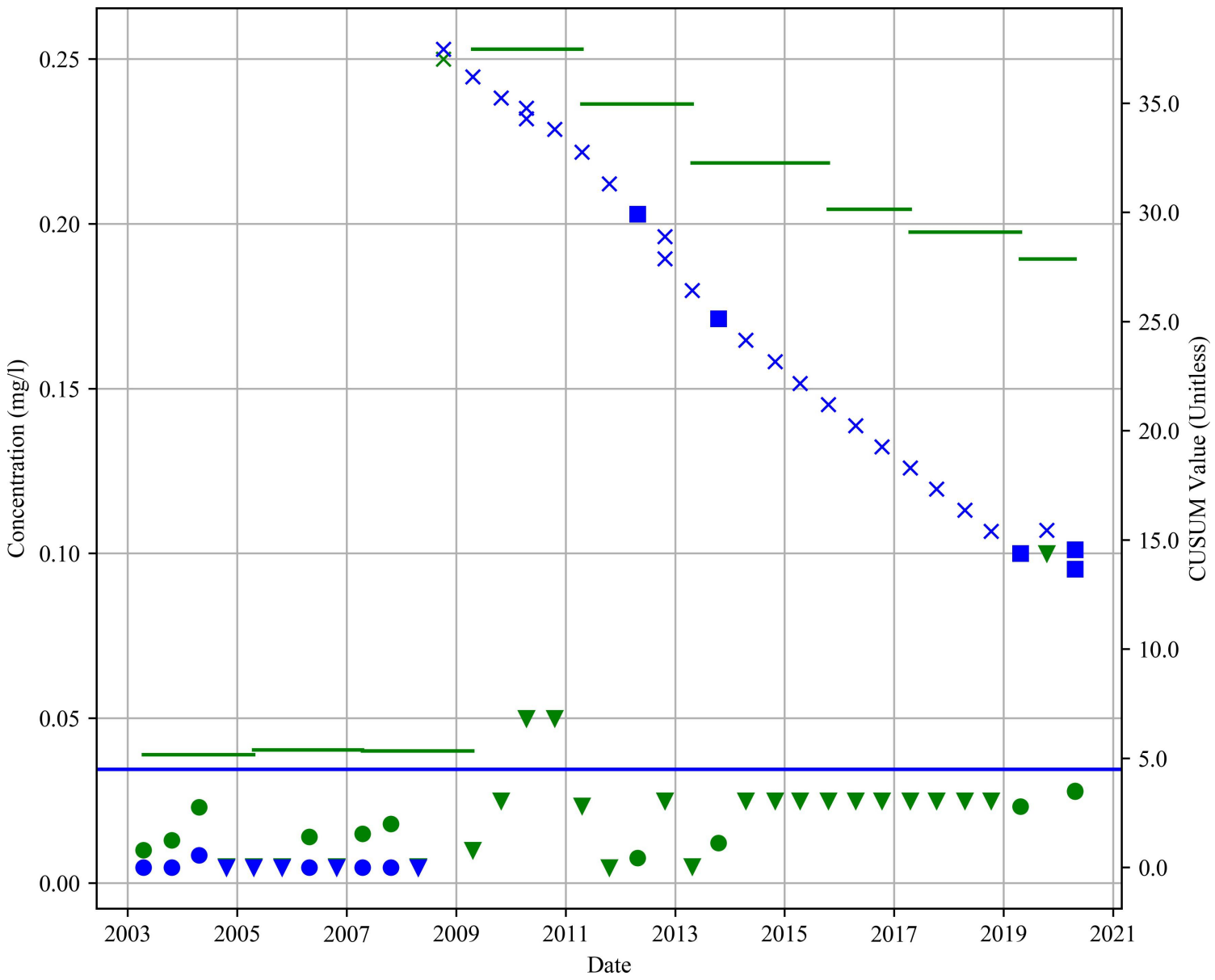
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-90:
Control Chart
MW 11A5
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

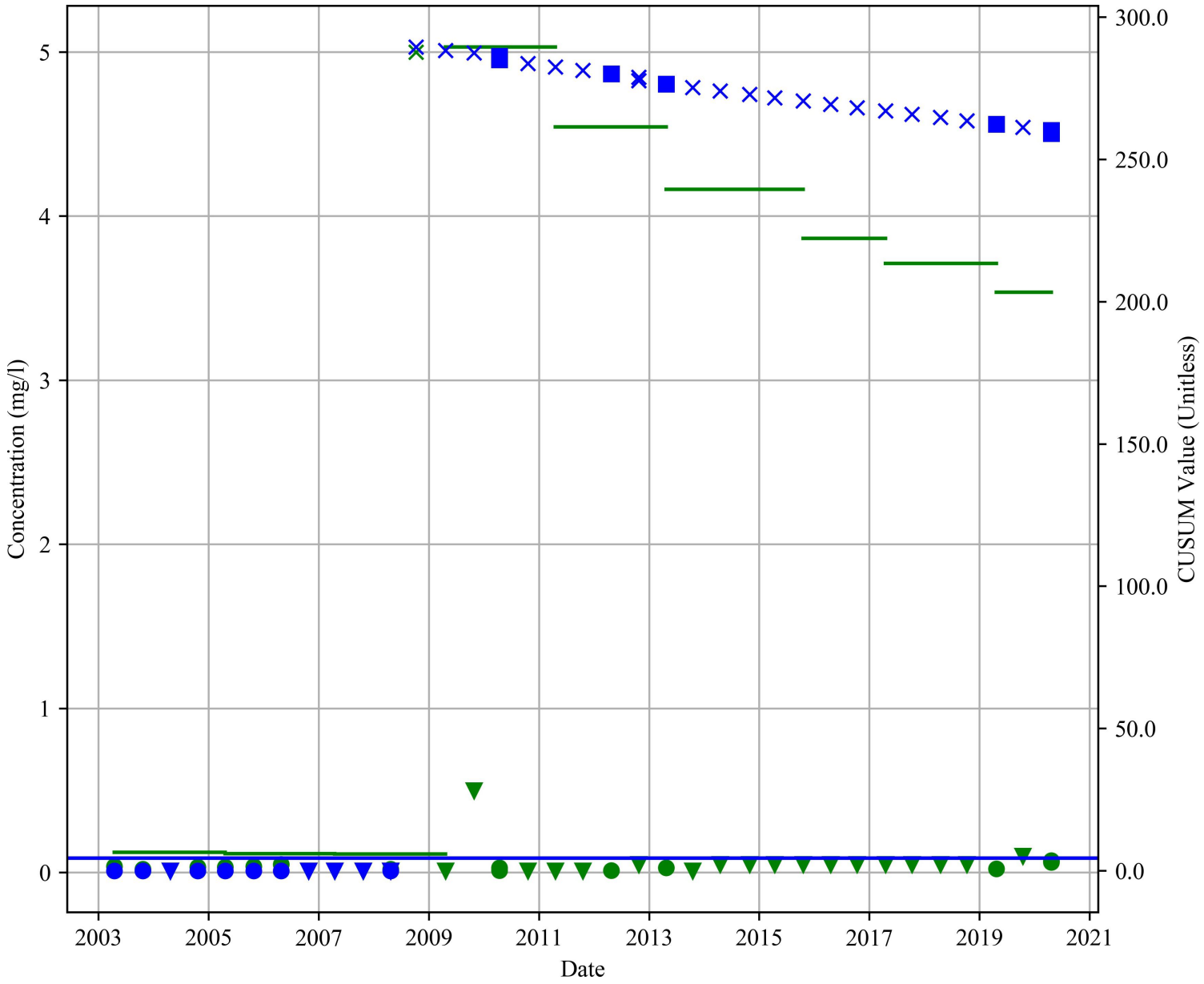
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-91:
Control Chart
MW 12A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

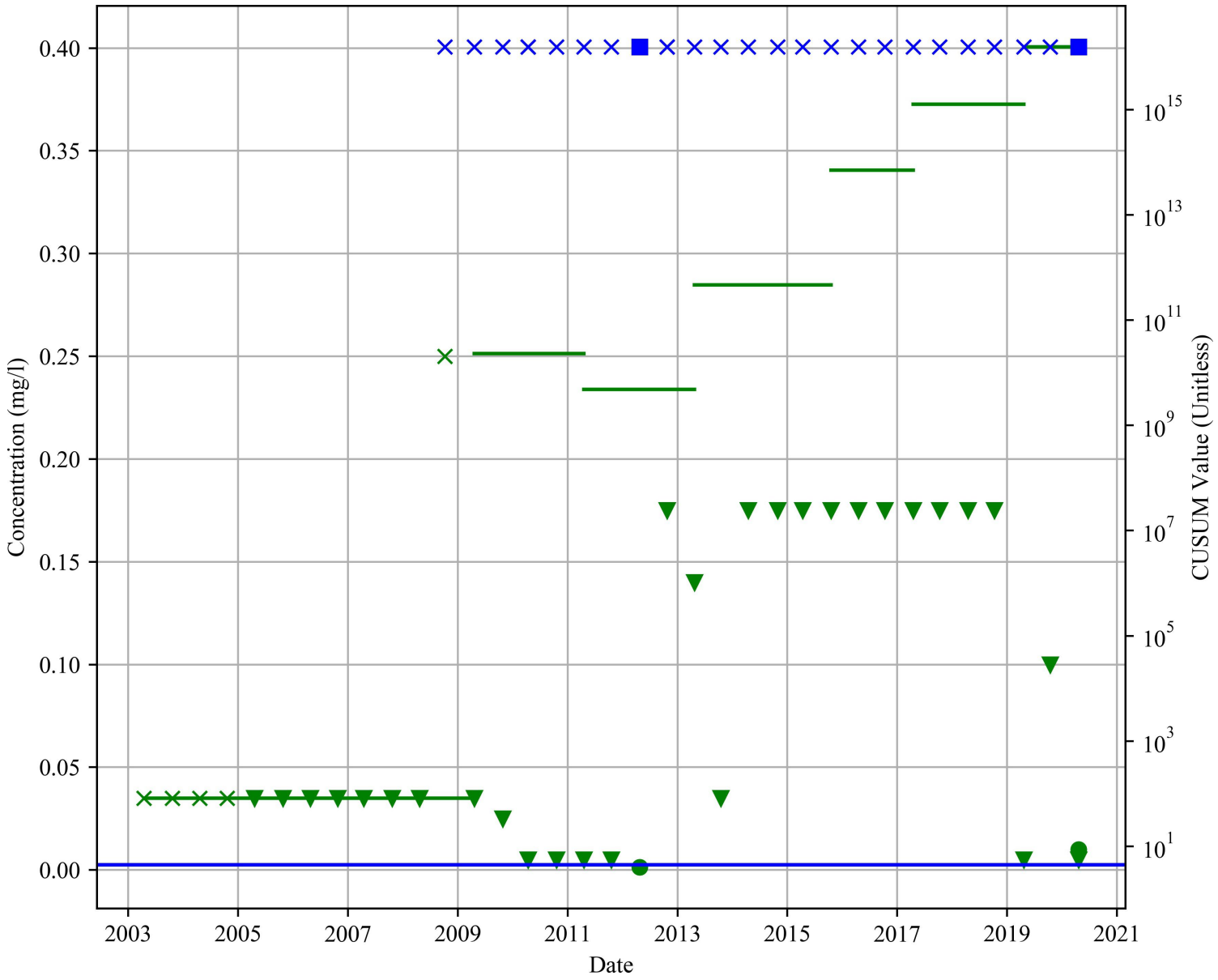
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-92:
Control Chart
MW 12A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-93:
Control Chart
MW 12A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

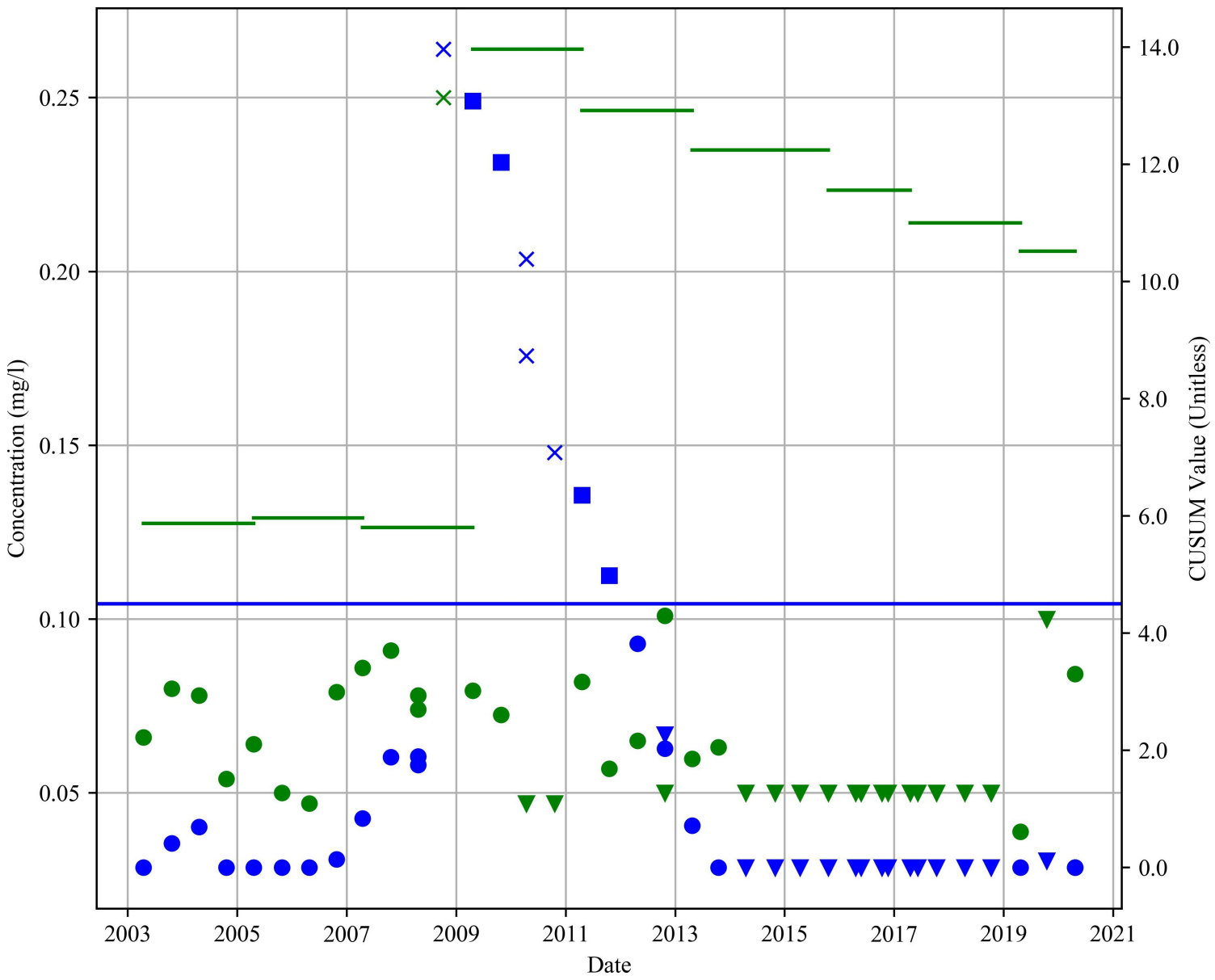
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-94:
Control Chart
MW 12A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

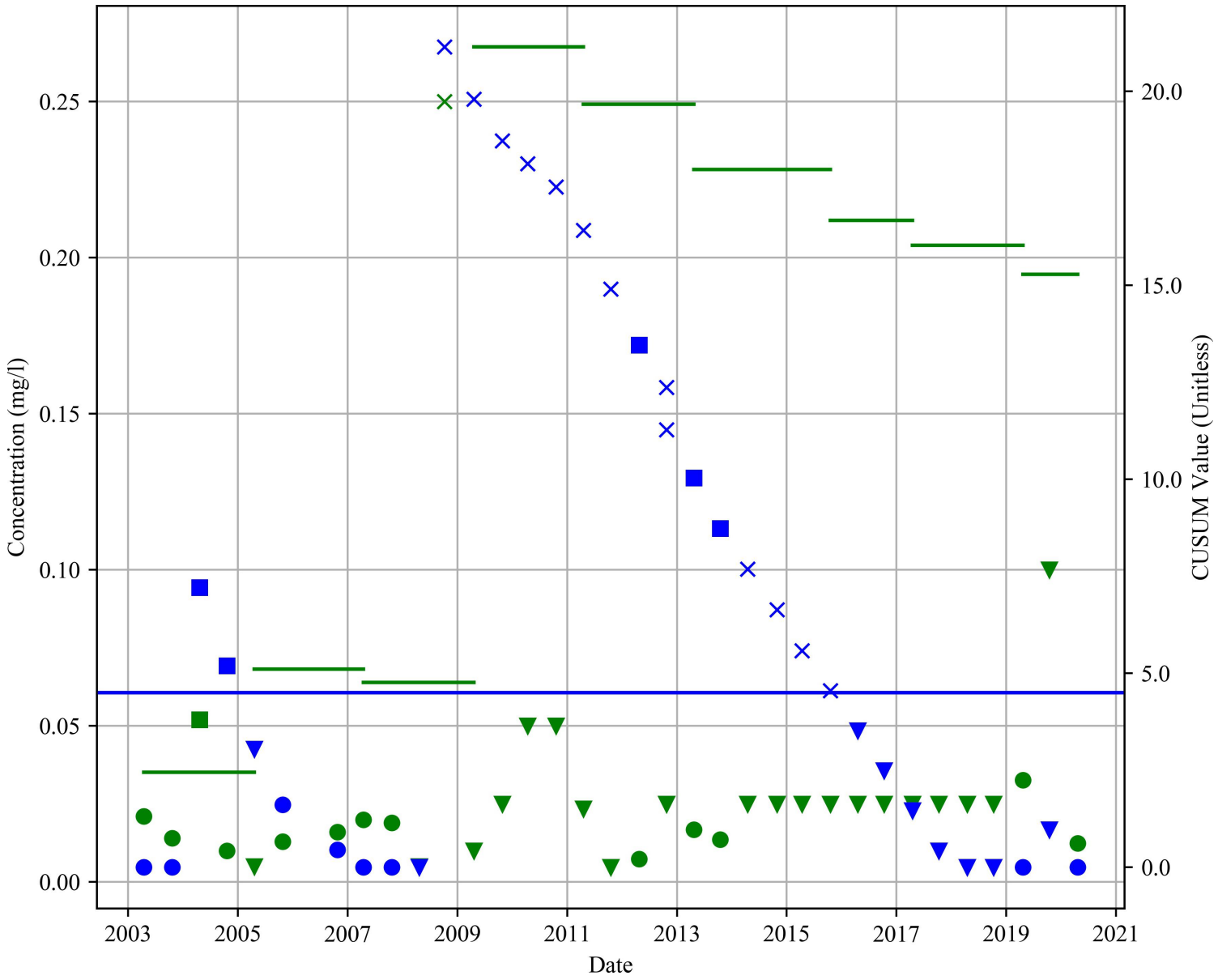
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-95:
Control Chart
MW 12A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

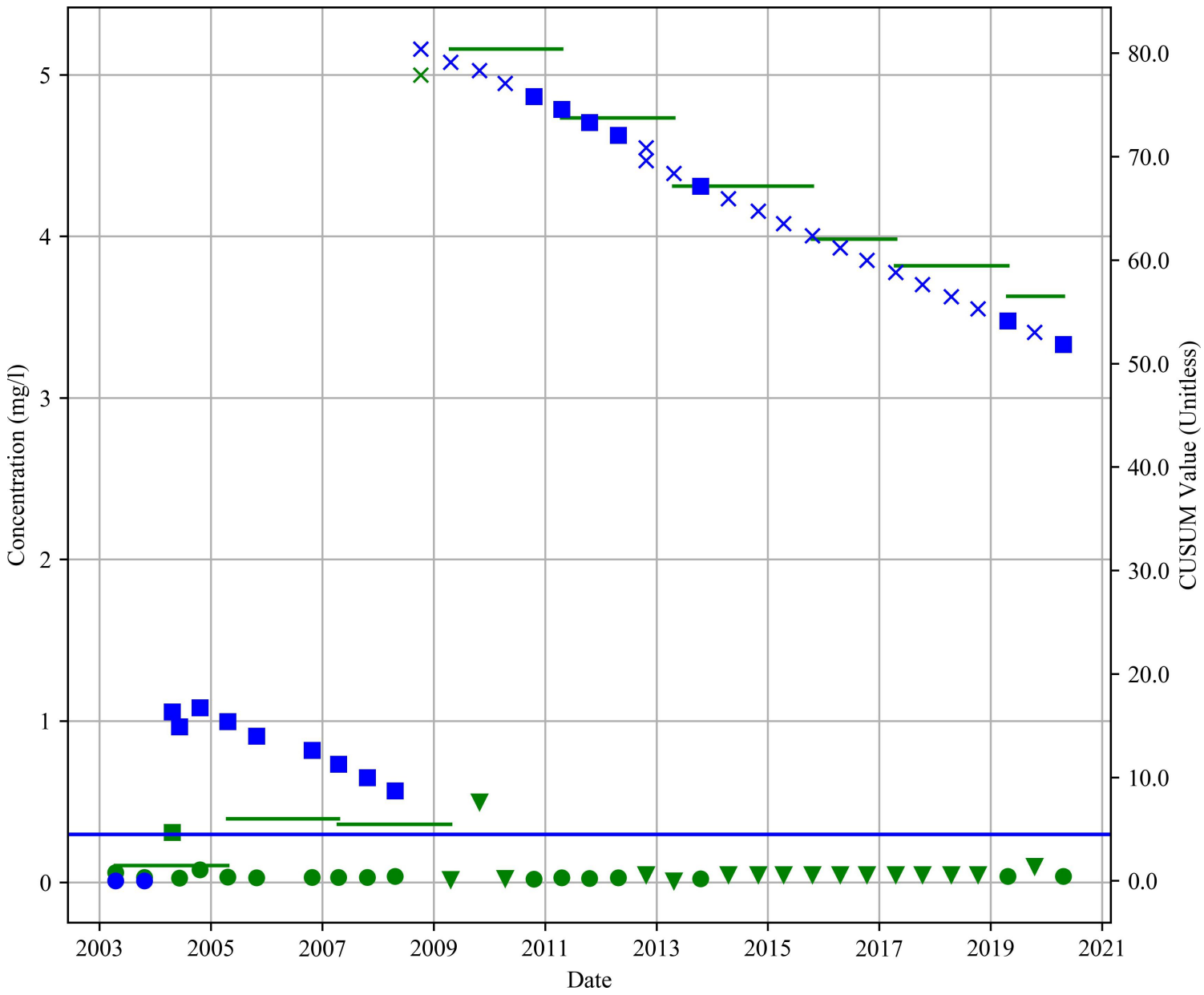
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-96:
Control Chart
MW 12B1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

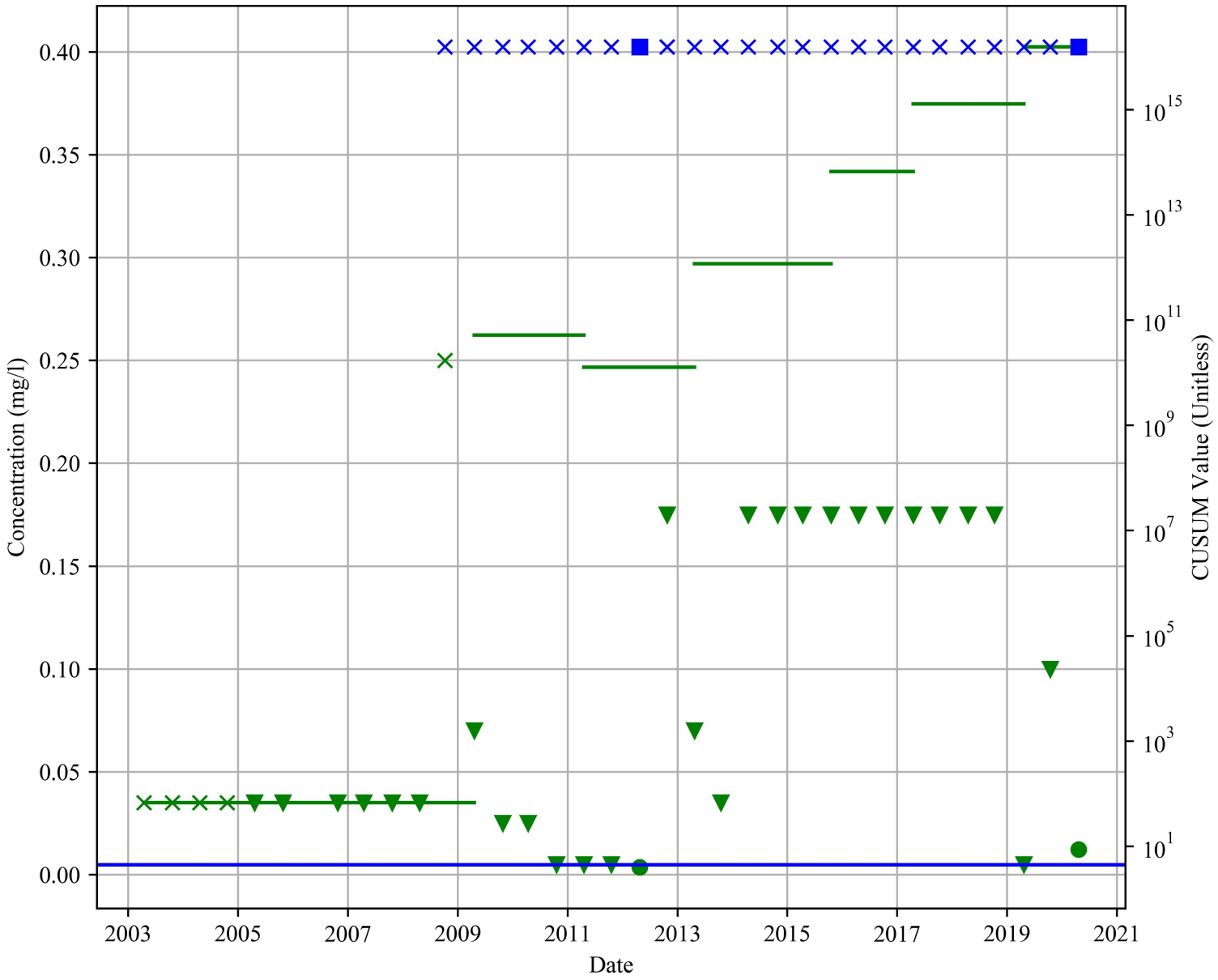
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-97:
Control Chart
MW 12B1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

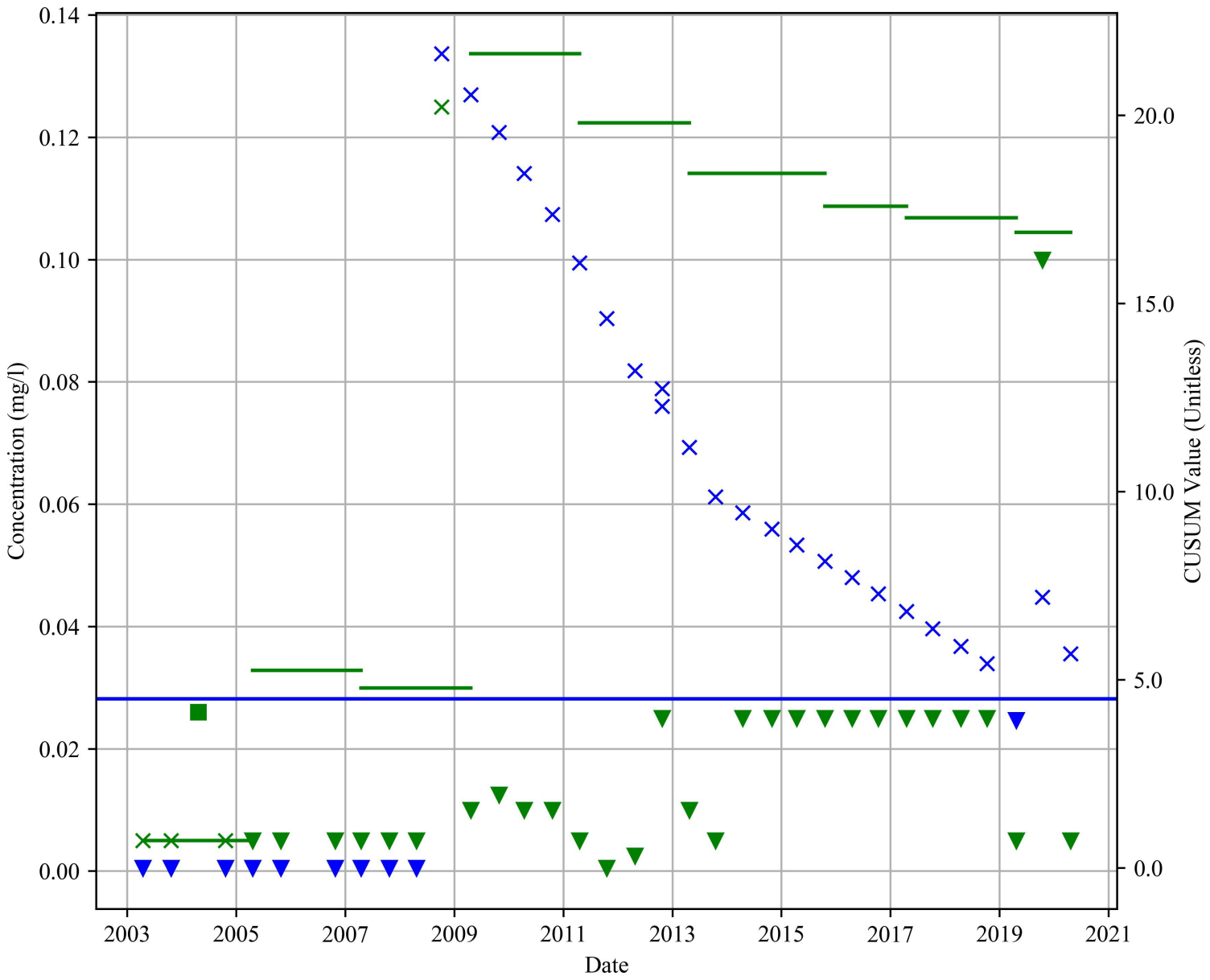
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-98:
Control Chart
MW 12B1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

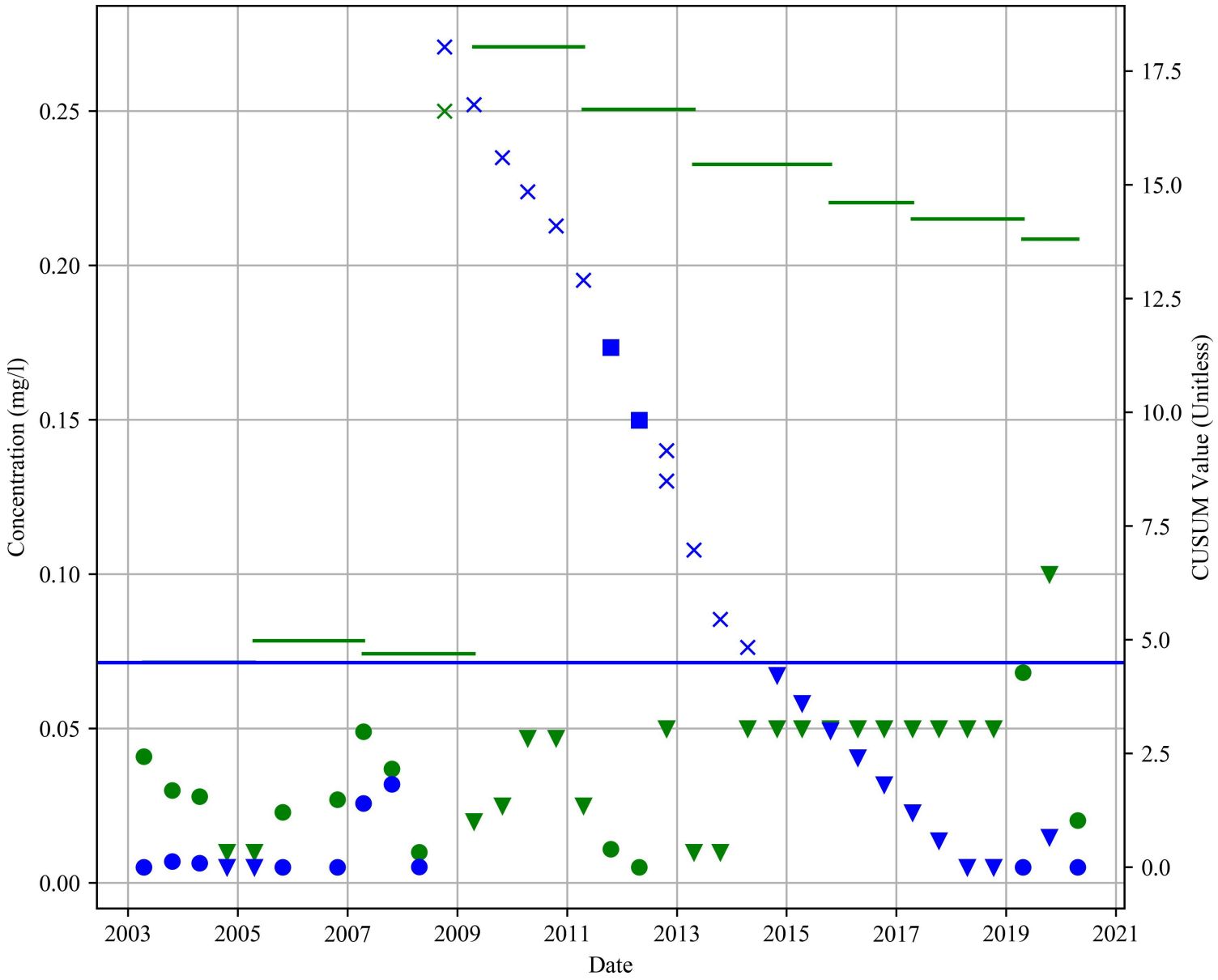
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-99:
Control Chart
MW 12B1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

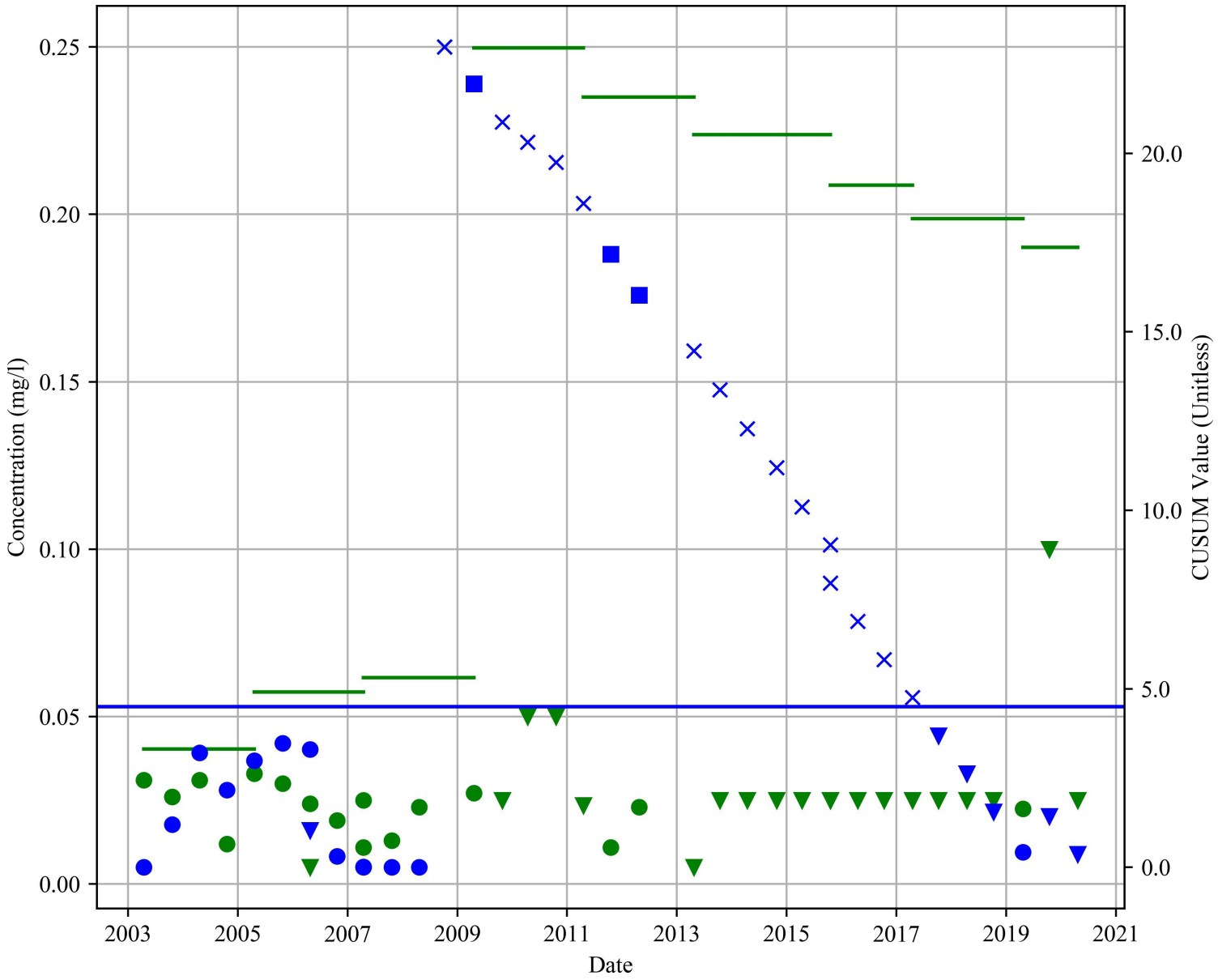
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-100:
Control Chart
MW 12B1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

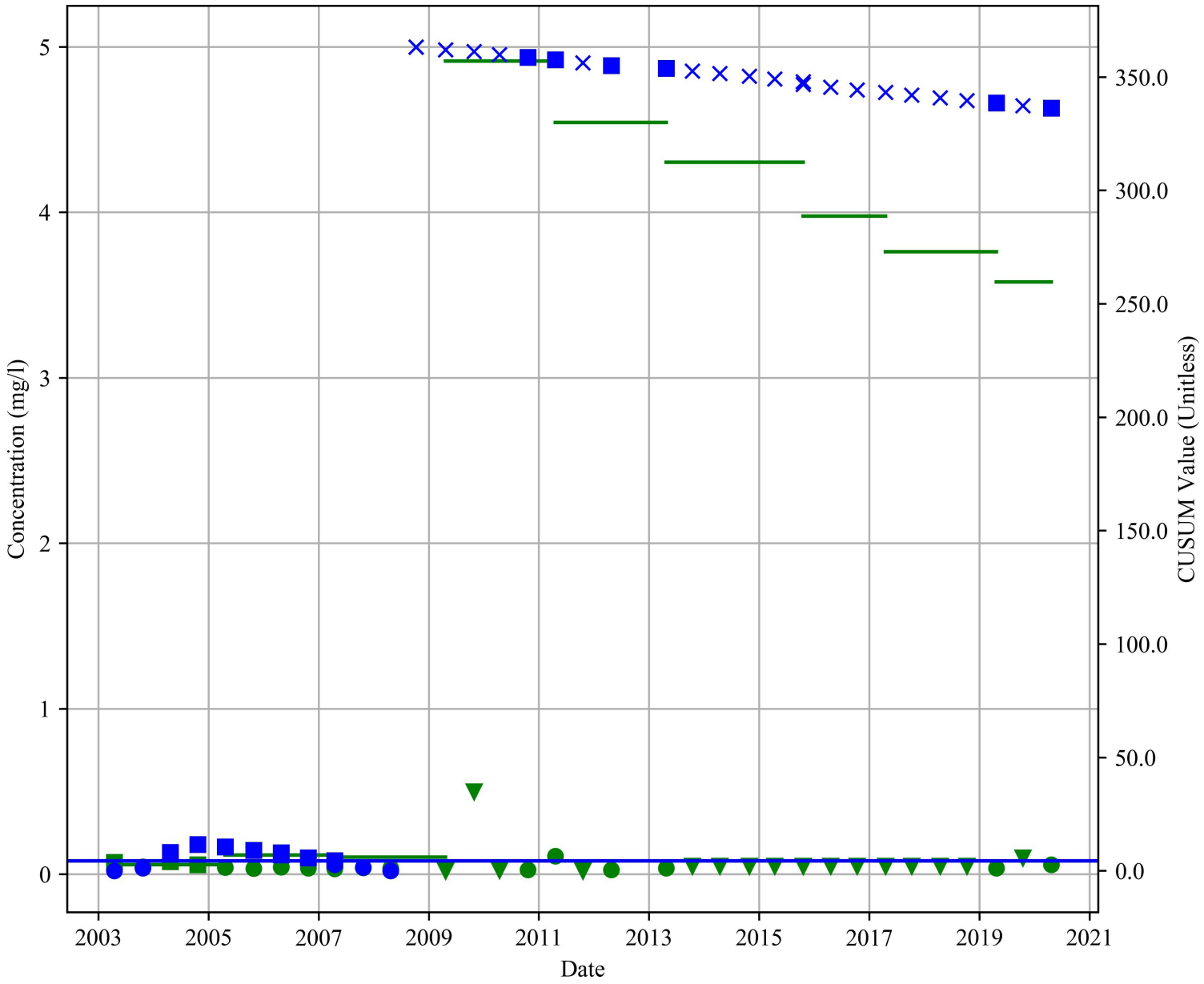
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-101:
Control Chart
MW 12B2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

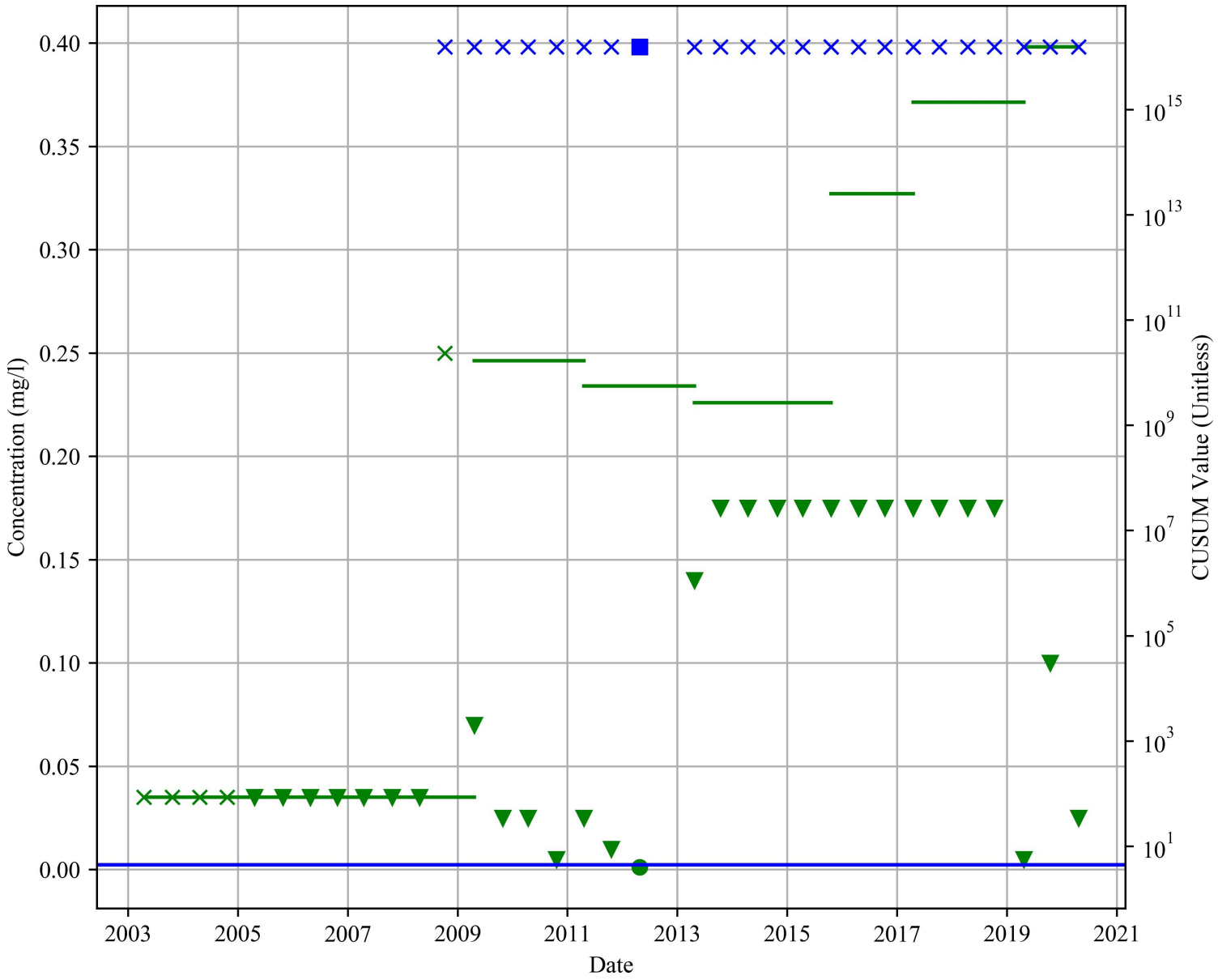
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-102:
Control Chart
MW 12B2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

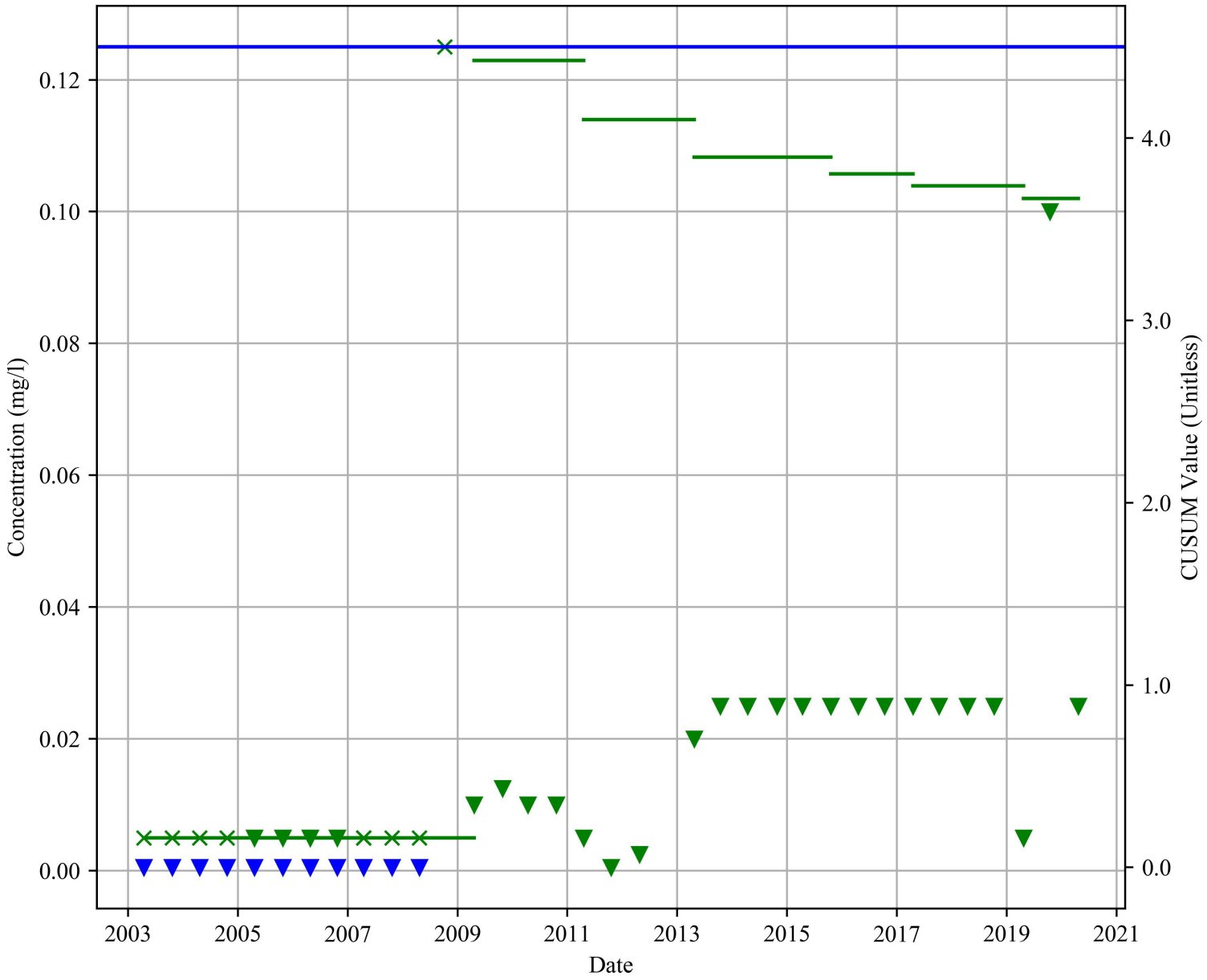
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-103:
Control Chart
MW 12B2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

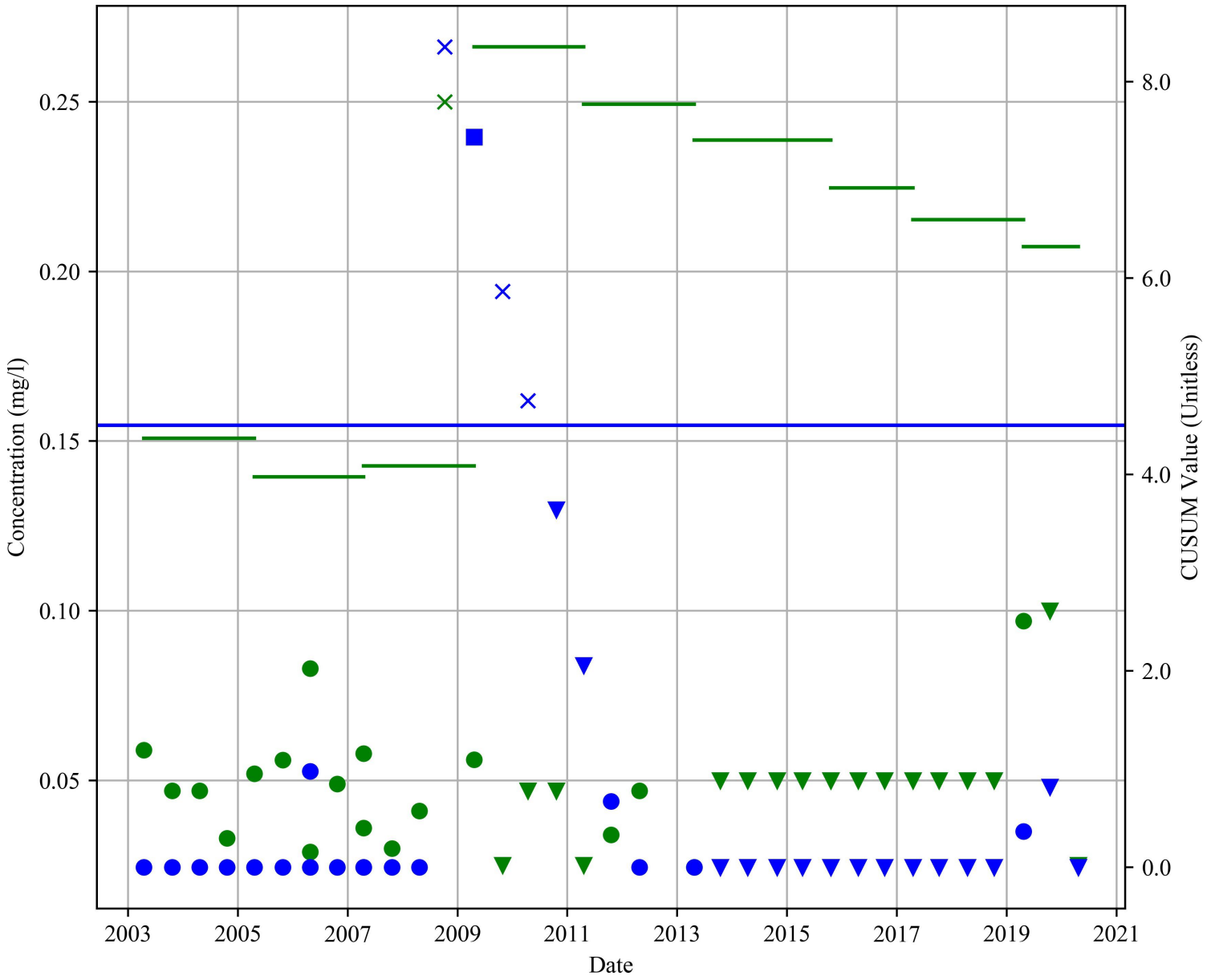
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-104:
Control Chart
MW 12B2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

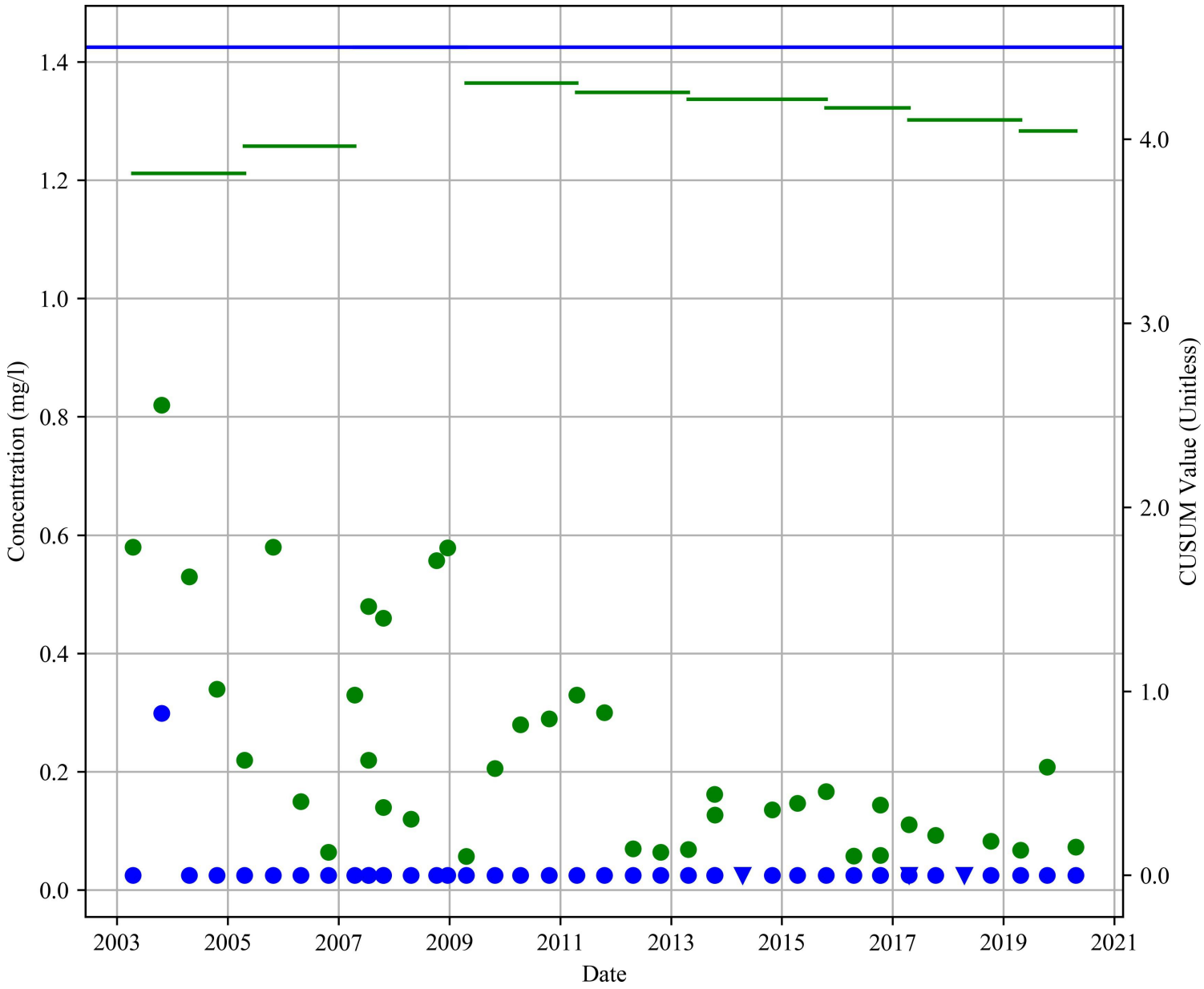
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-105:
Control Chart
MW 12B2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

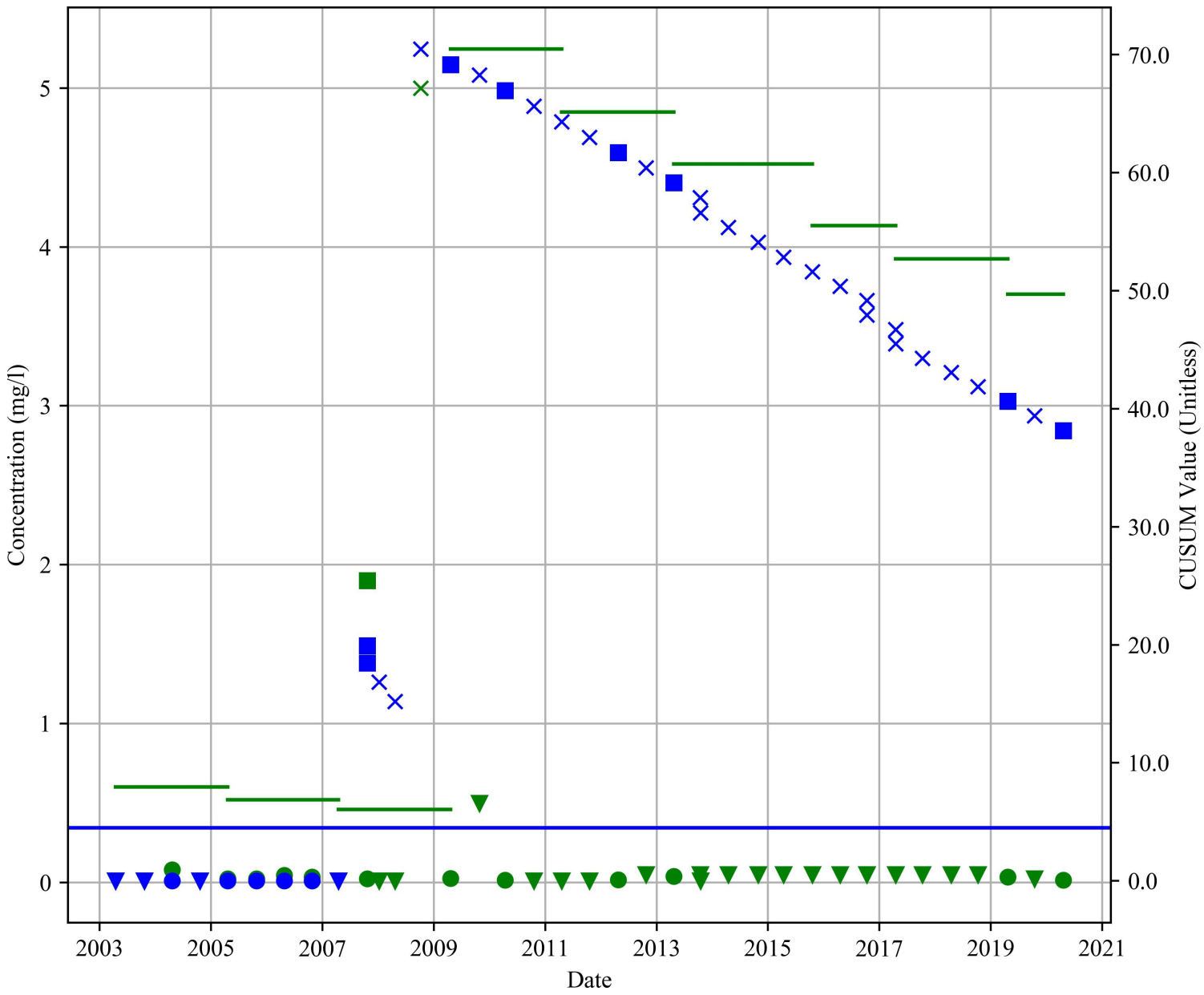
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-106:
Control Chart
MW 13A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

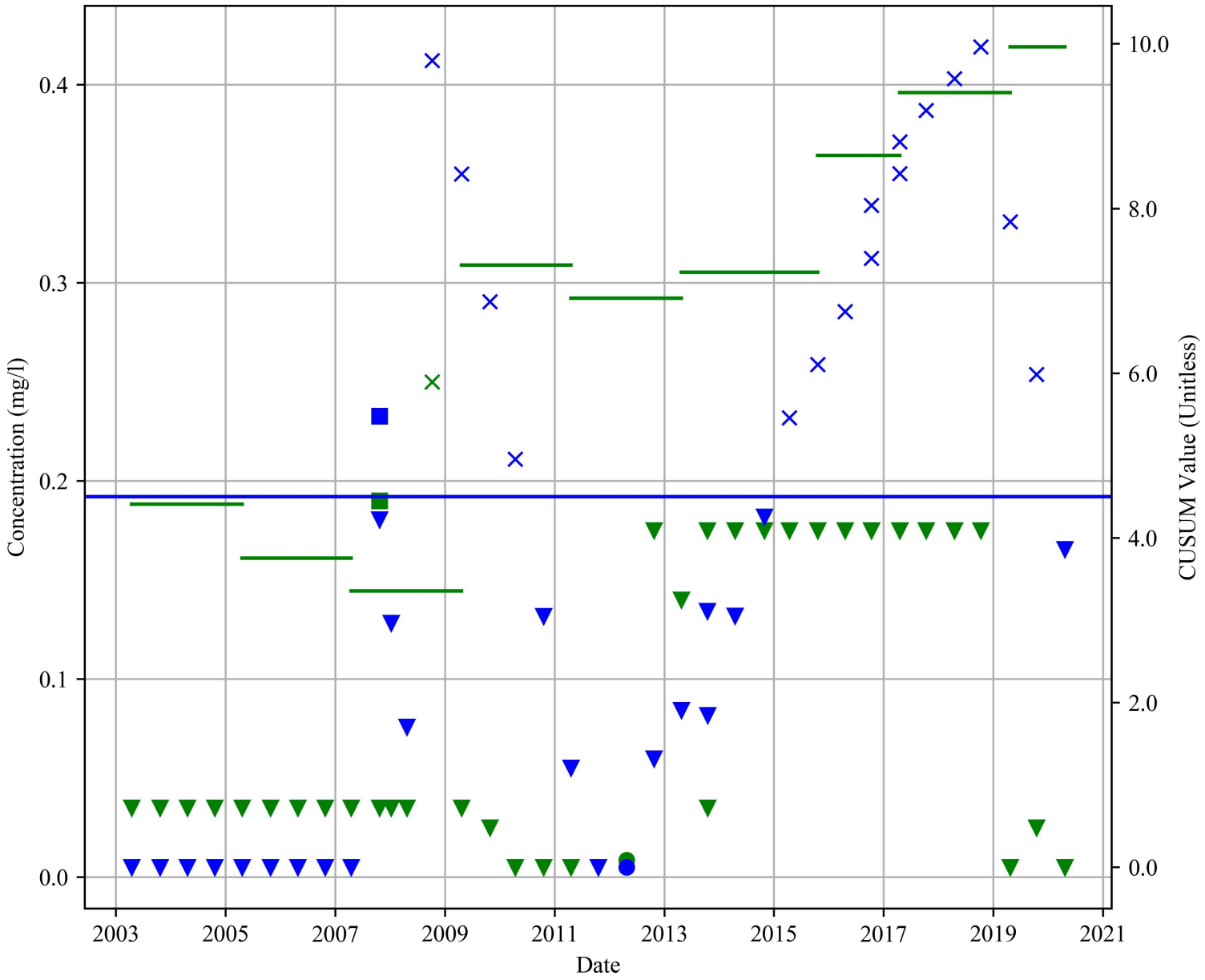
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-107:
Control Chart
MW 13A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-108:
Control Chart
MW 13A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

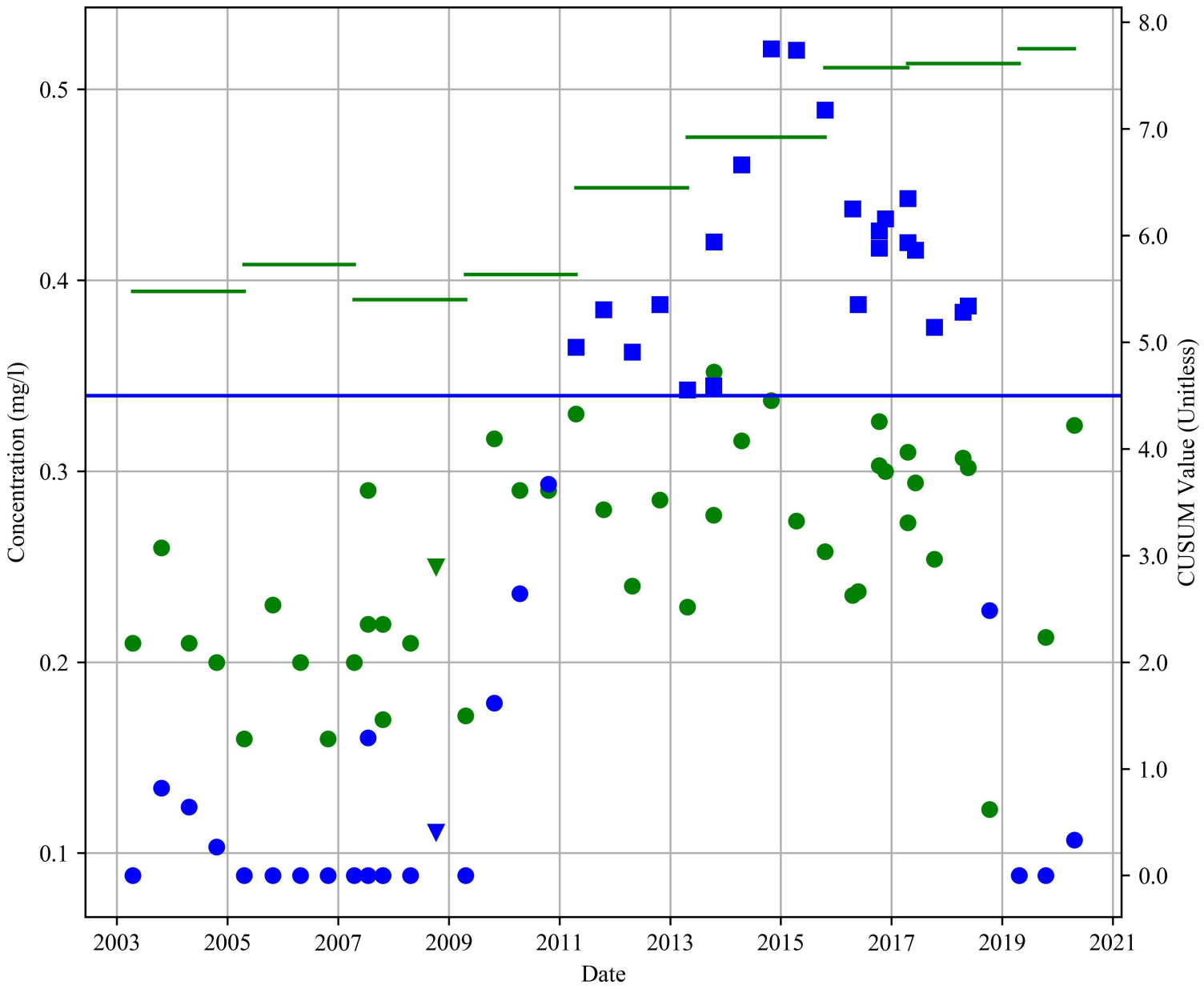
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-109:
Control Chart
MW 13A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail Value
- CUSUM Limit

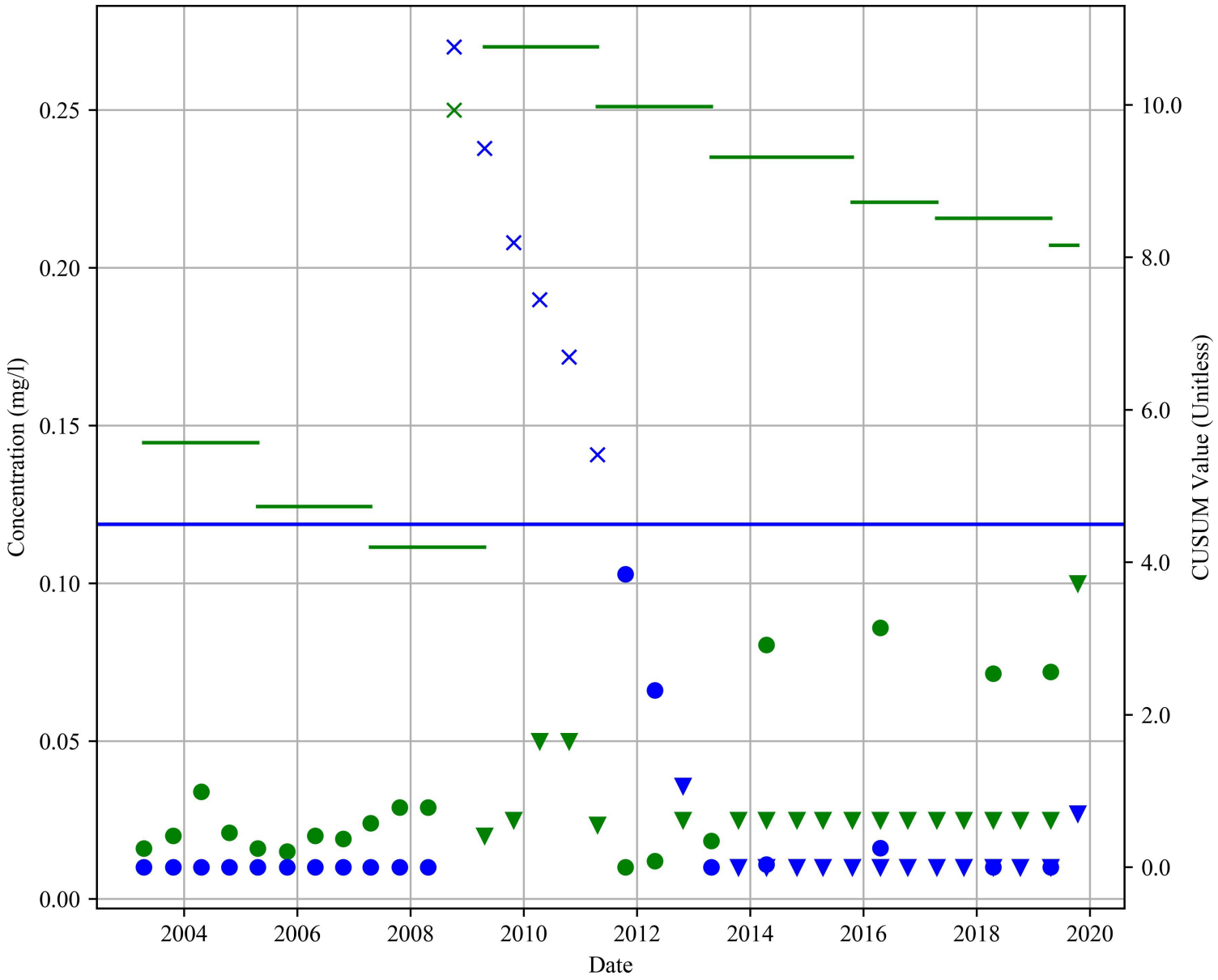
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-110:
Control Chart
MW 13A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

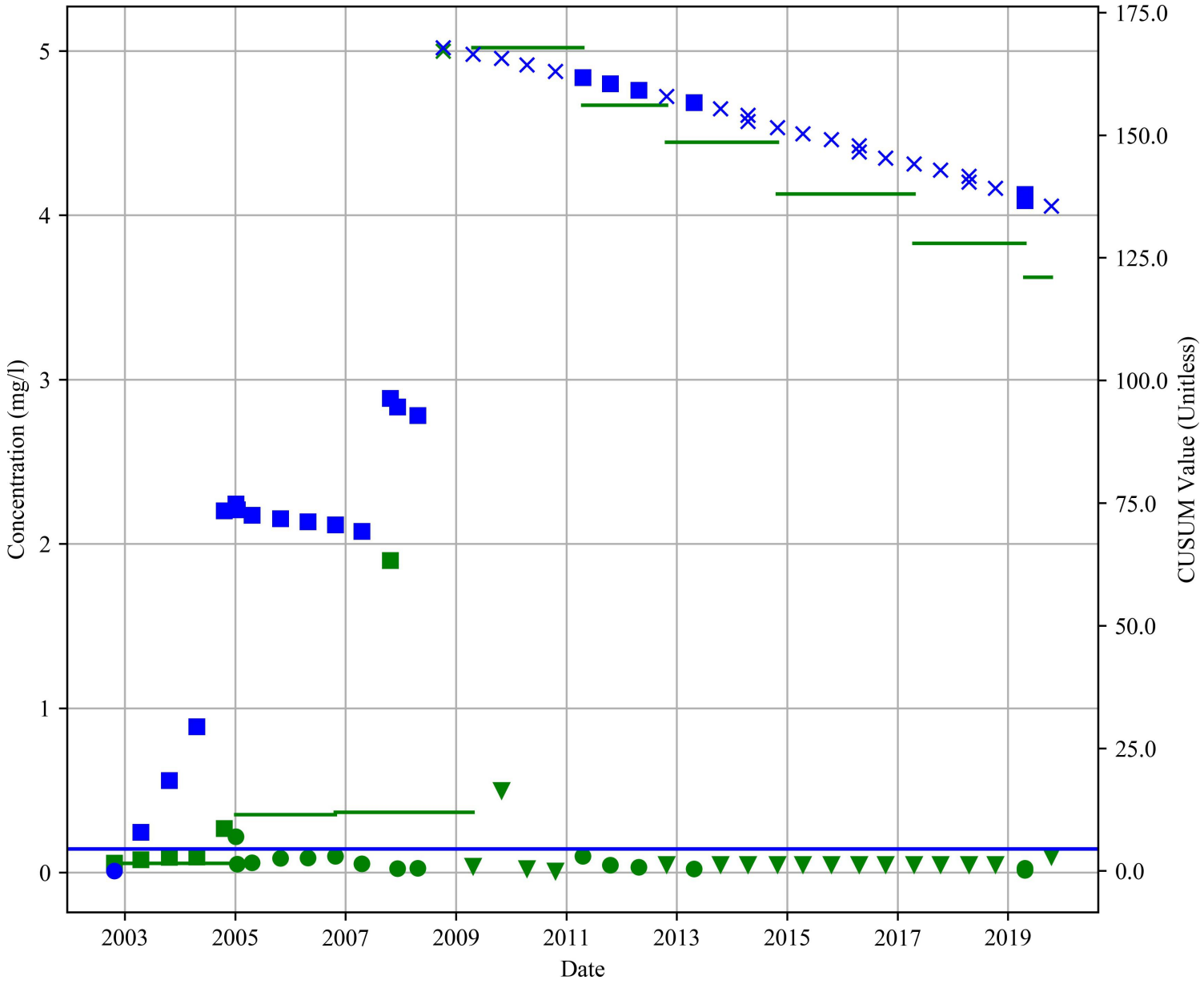
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-111:
Control Chart
MW 13A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

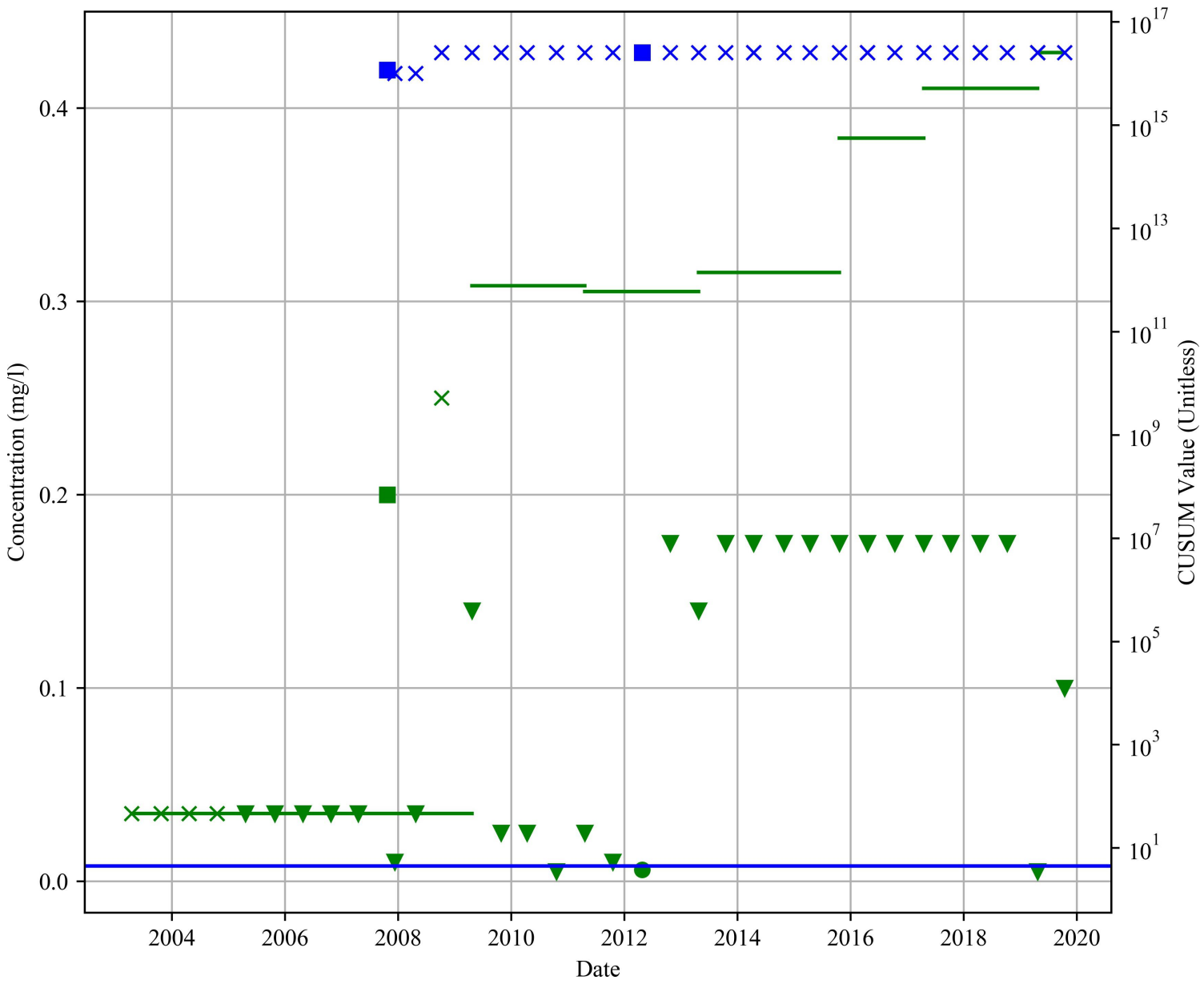
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-112:
Control Chart
MW 13A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

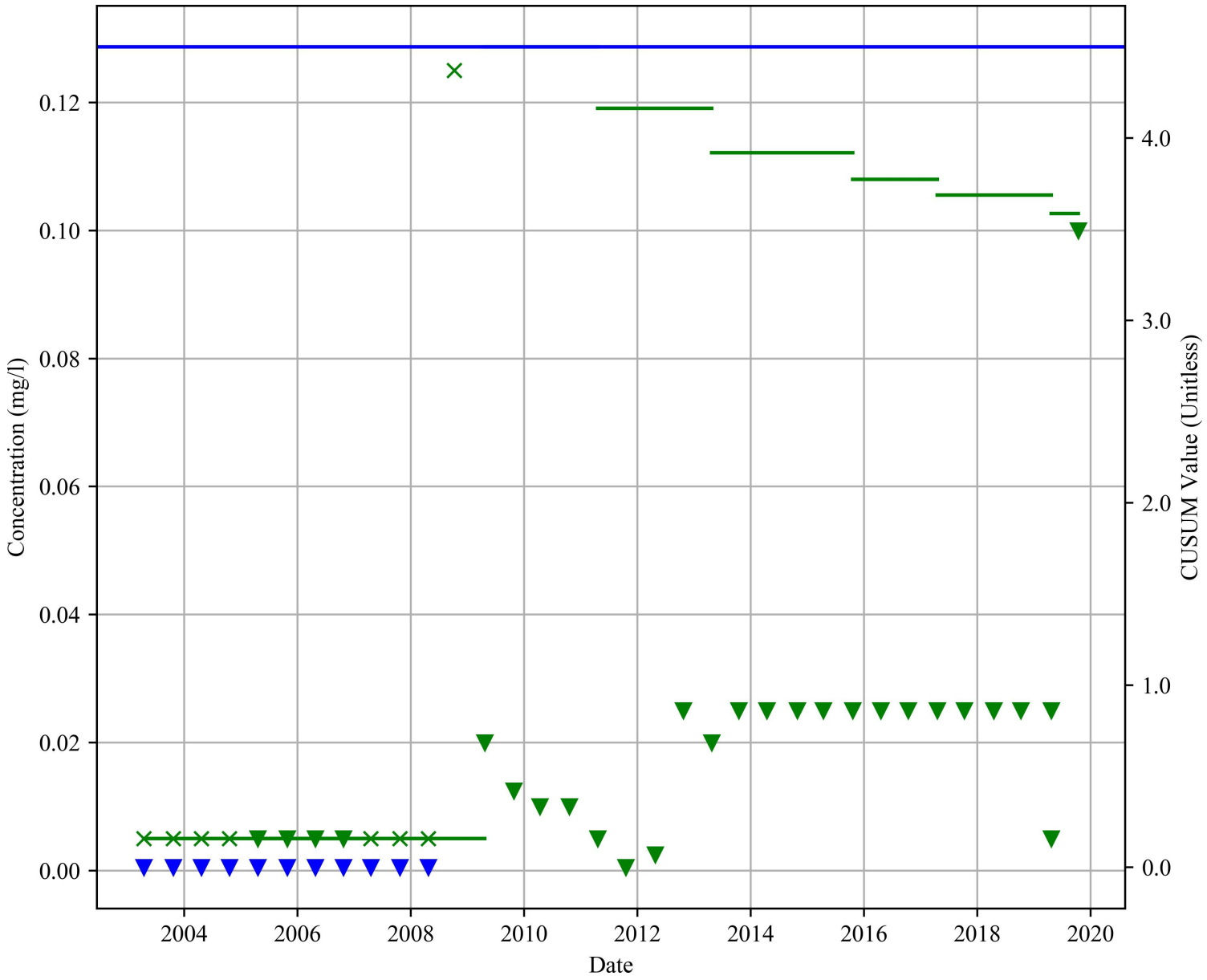
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-113:
Control Chart
MW 13A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

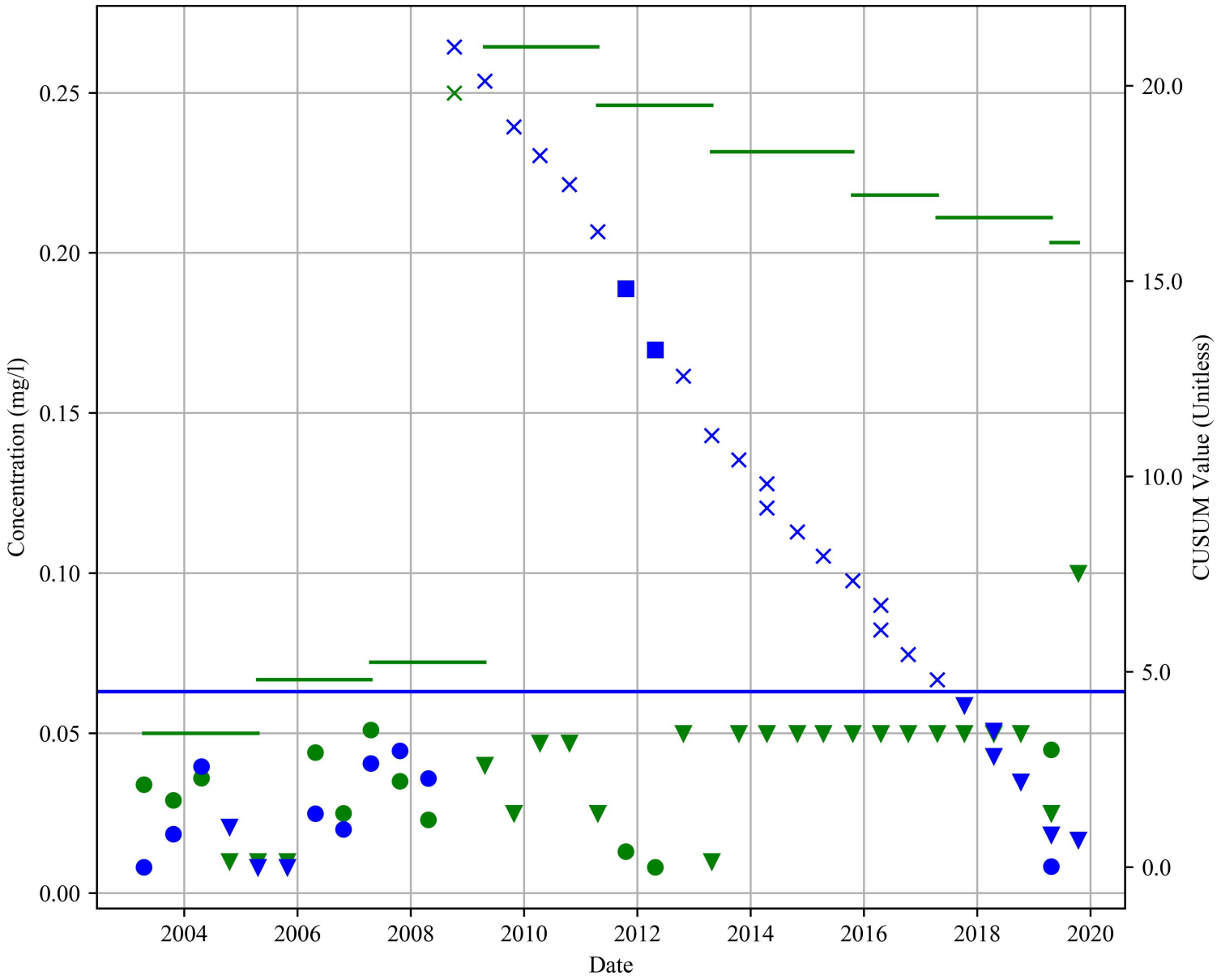
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-114:
Control Chart
MW 13A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

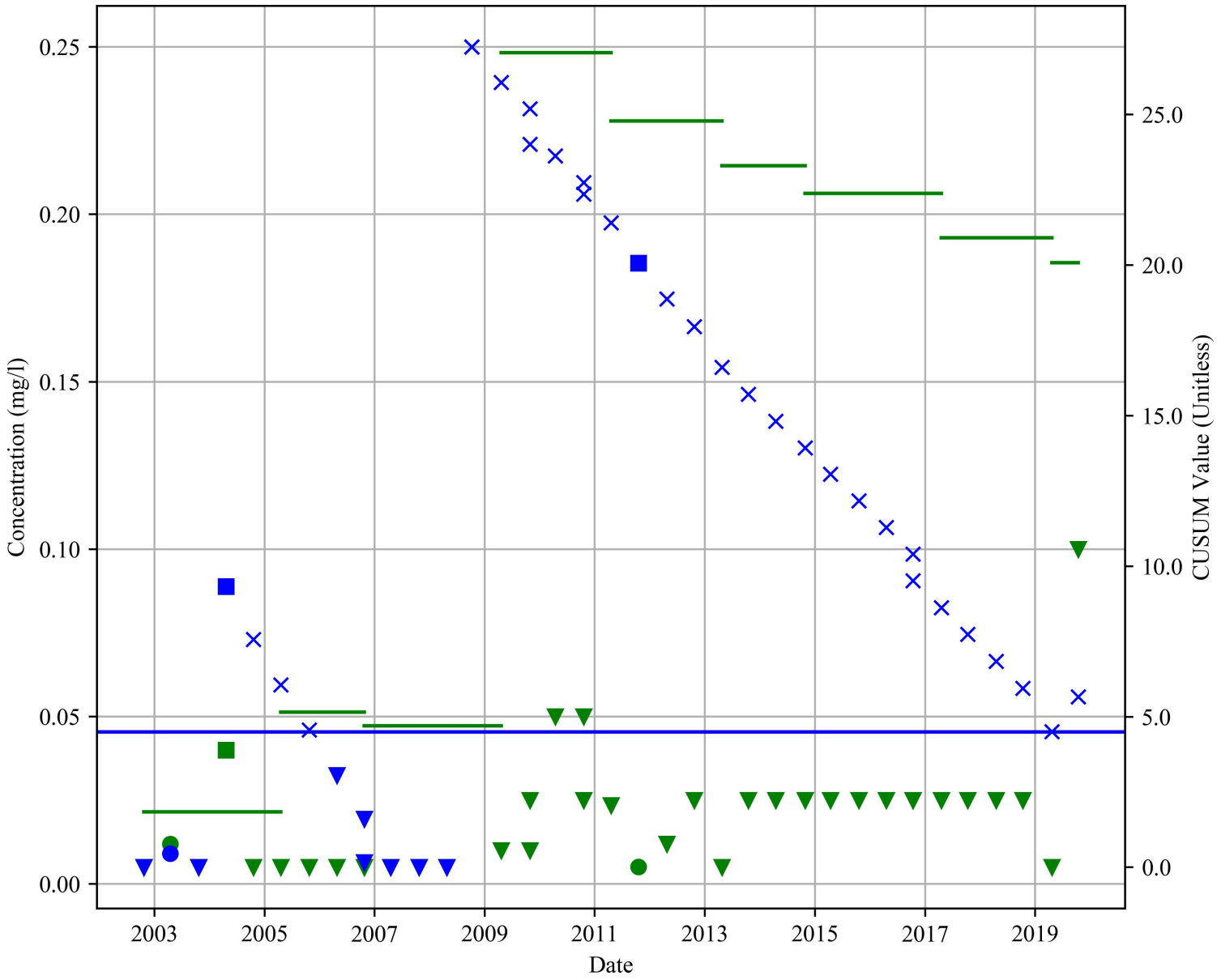
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-115:
Control Chart
MW 13A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

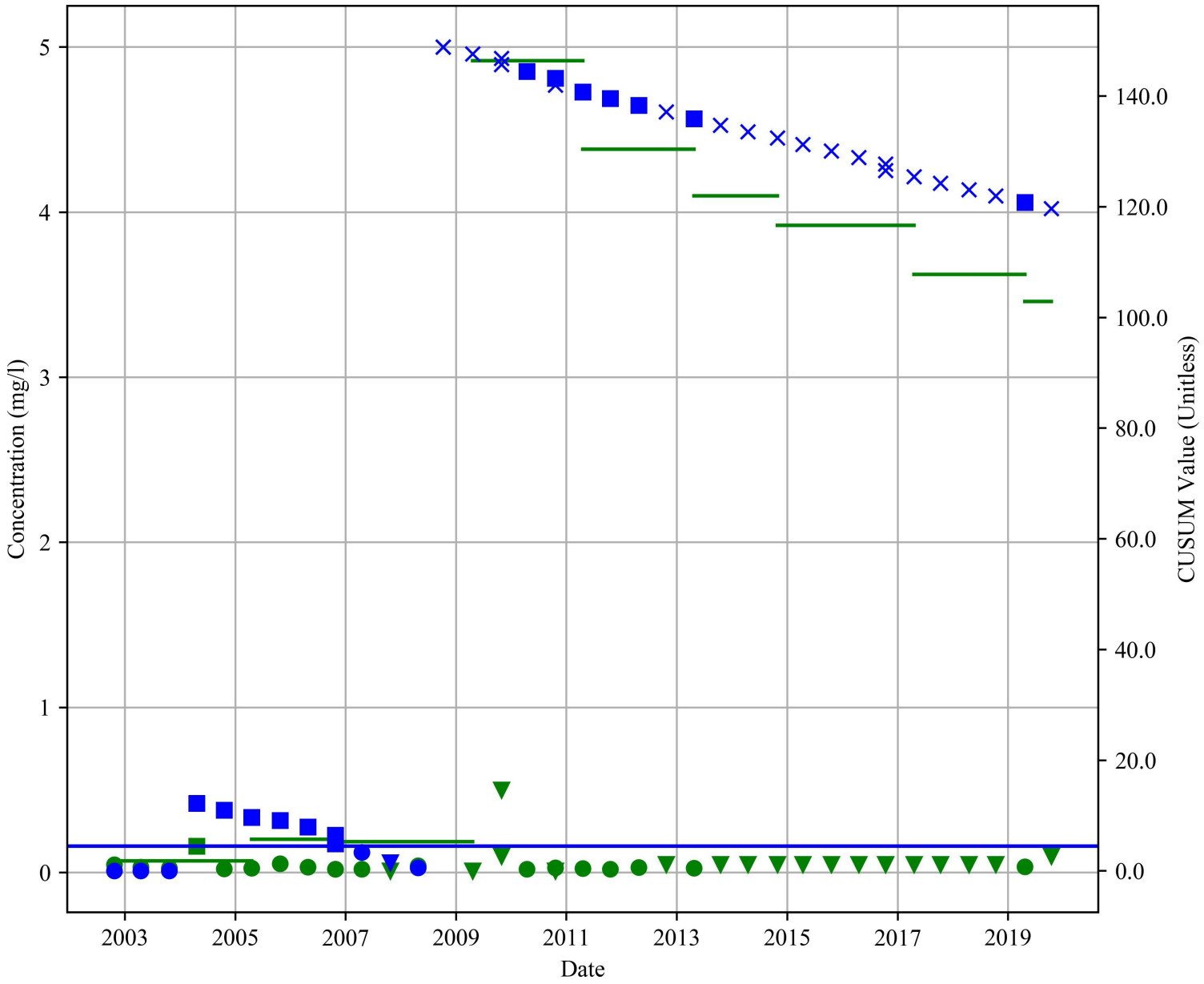
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-116:
Control Chart
MW 14A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

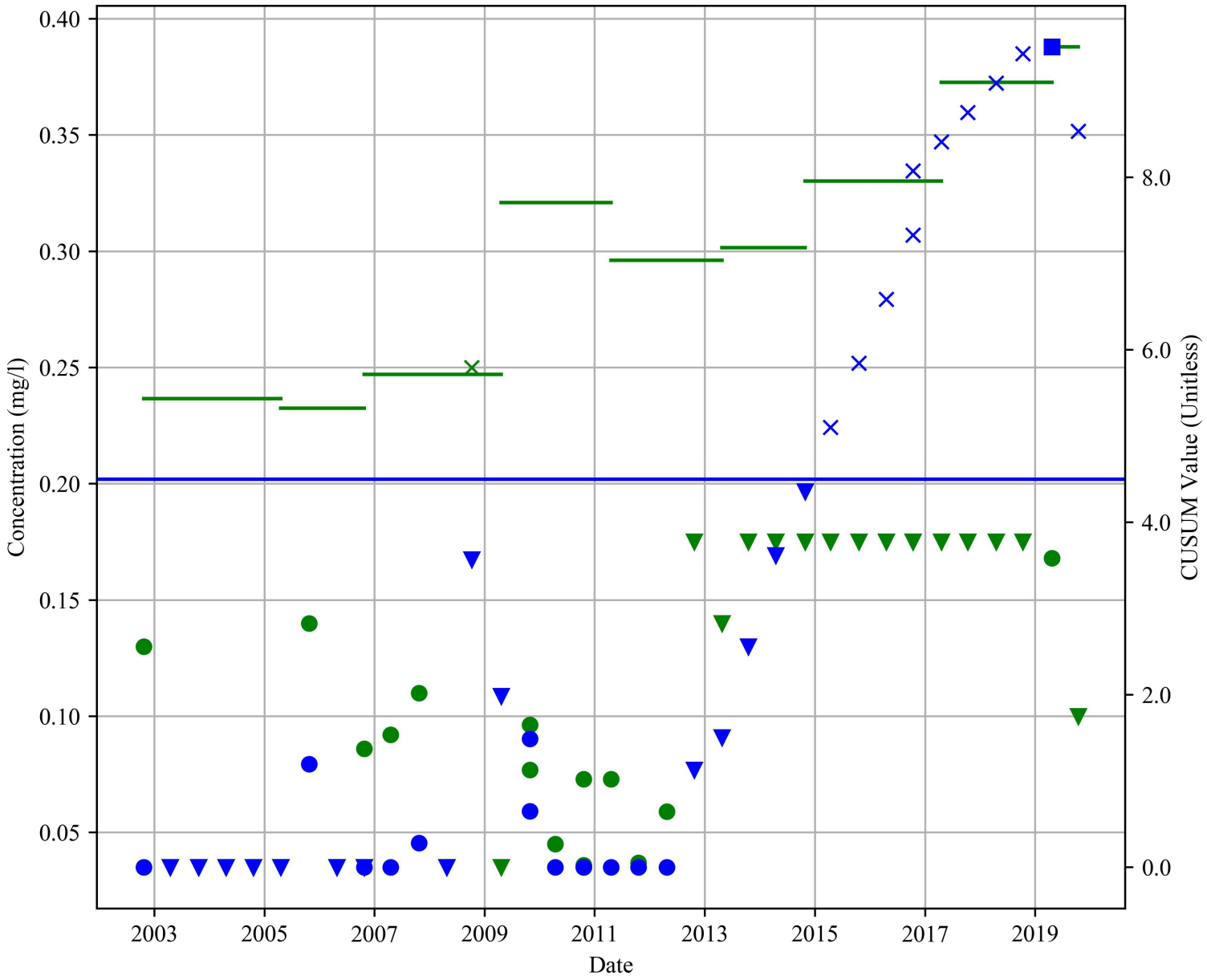
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-117:
Control Chart
MW 14A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

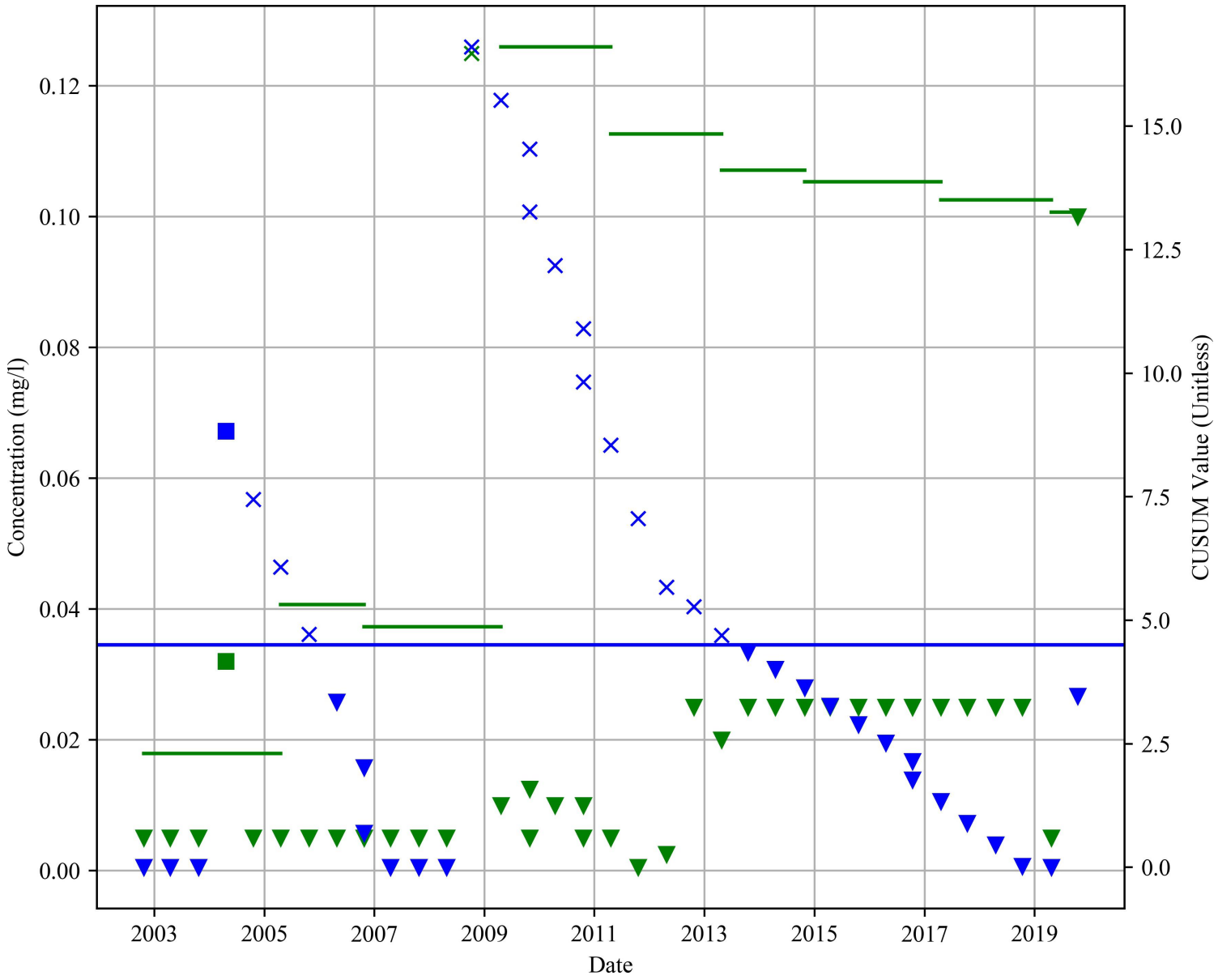
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-118:
Control Chart
MW 14A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

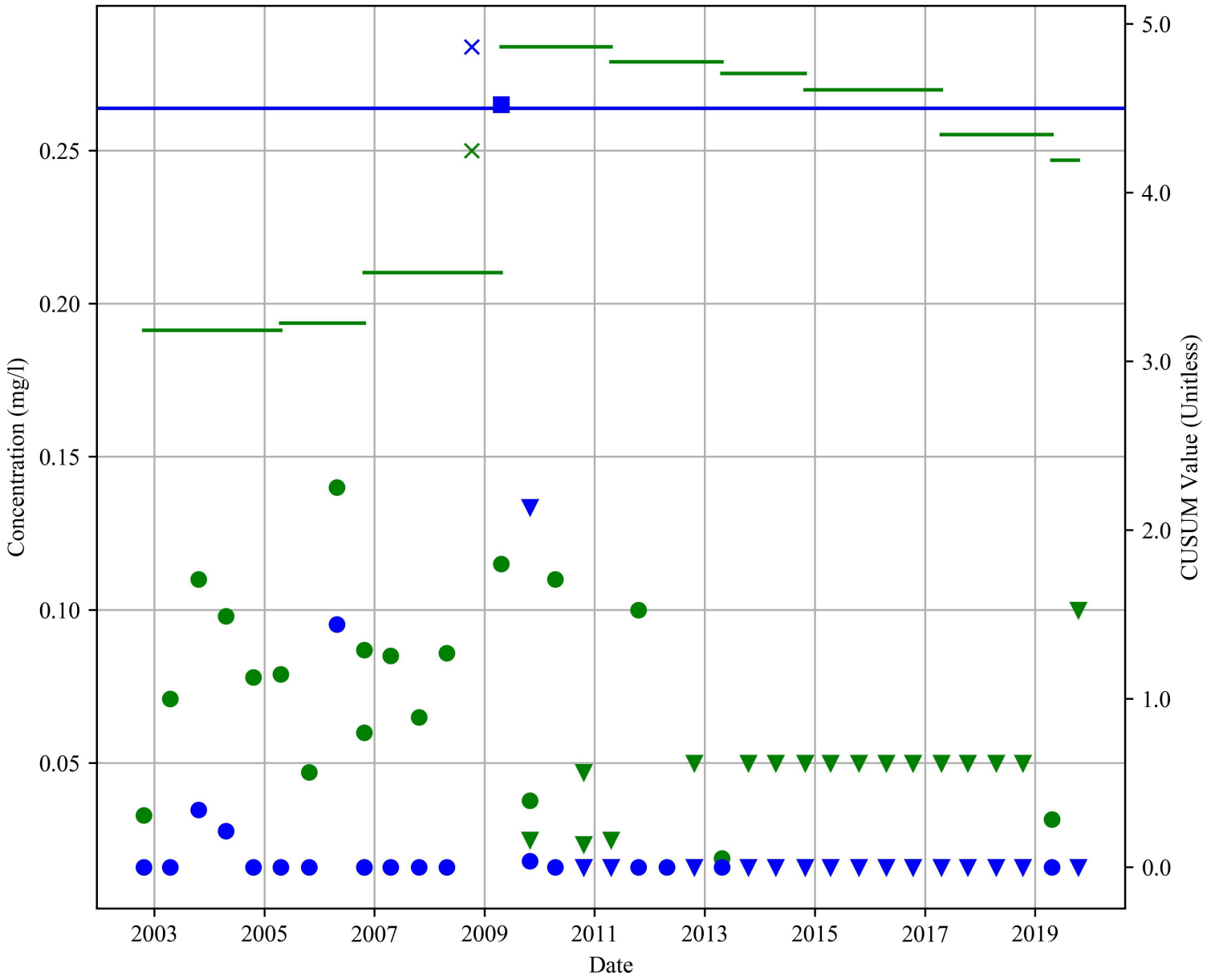
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-119:
Control Chart
MW 14A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

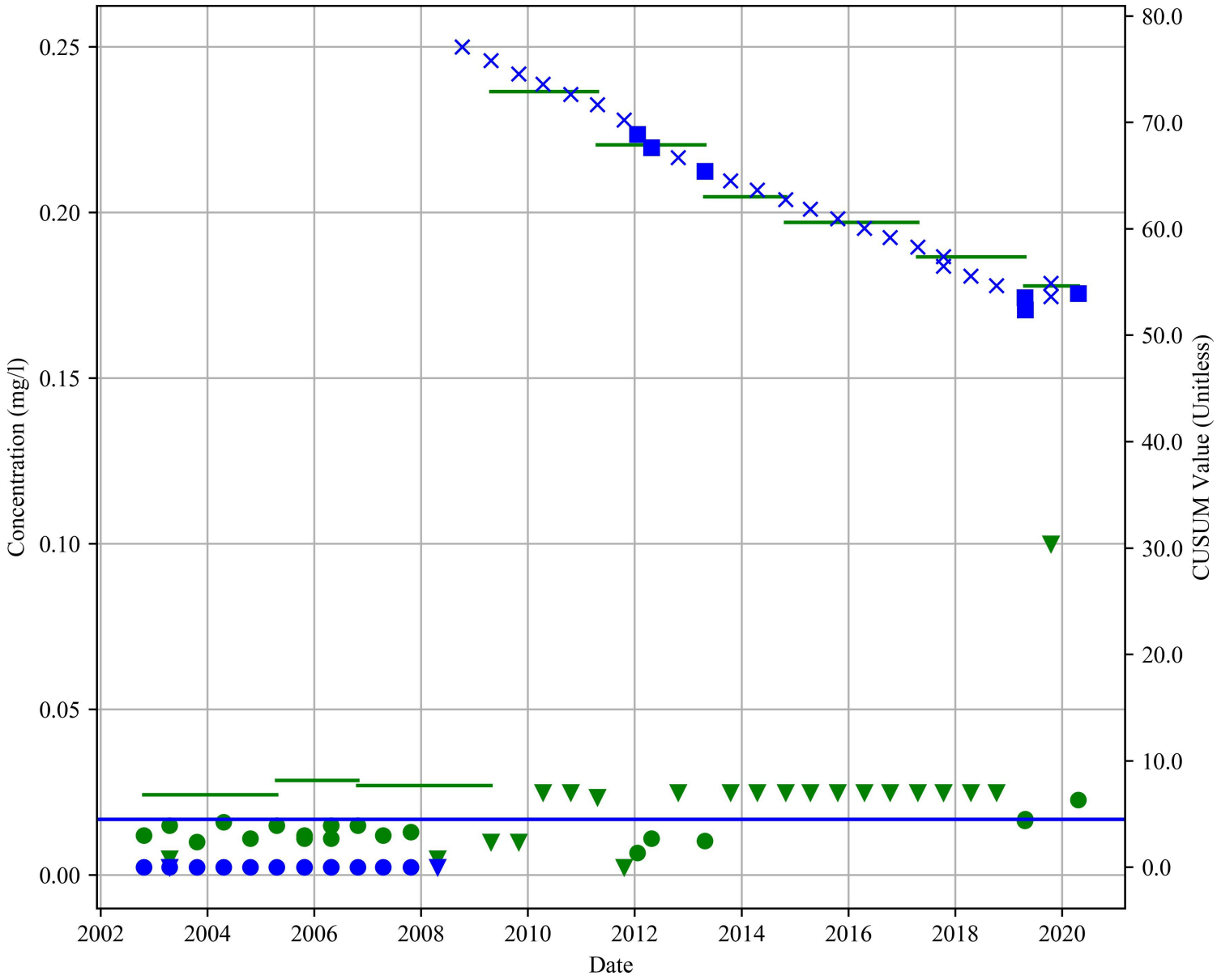
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-120:
Control Chart
MW 14A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

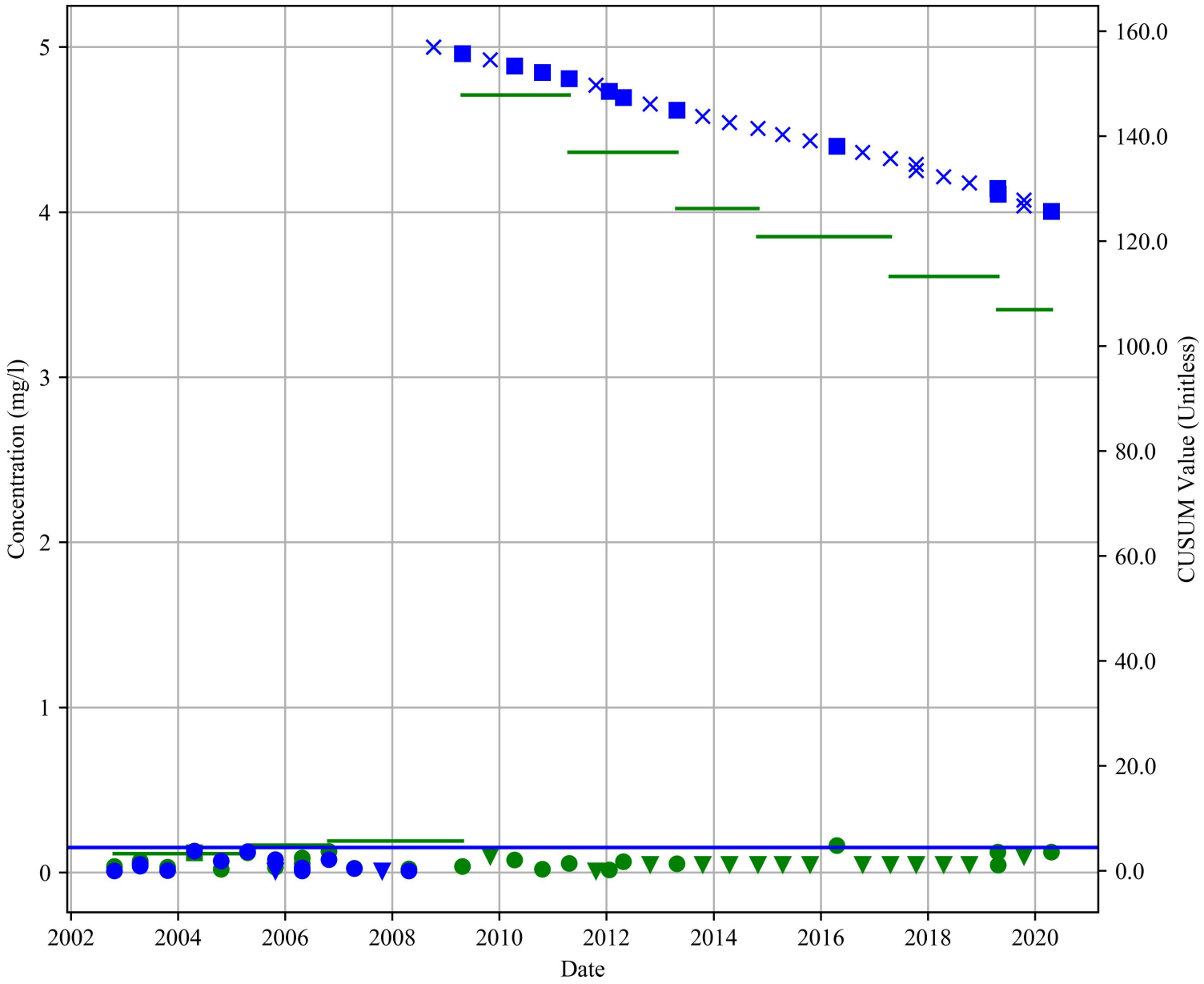
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-121:
Control Chart
MW 14A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

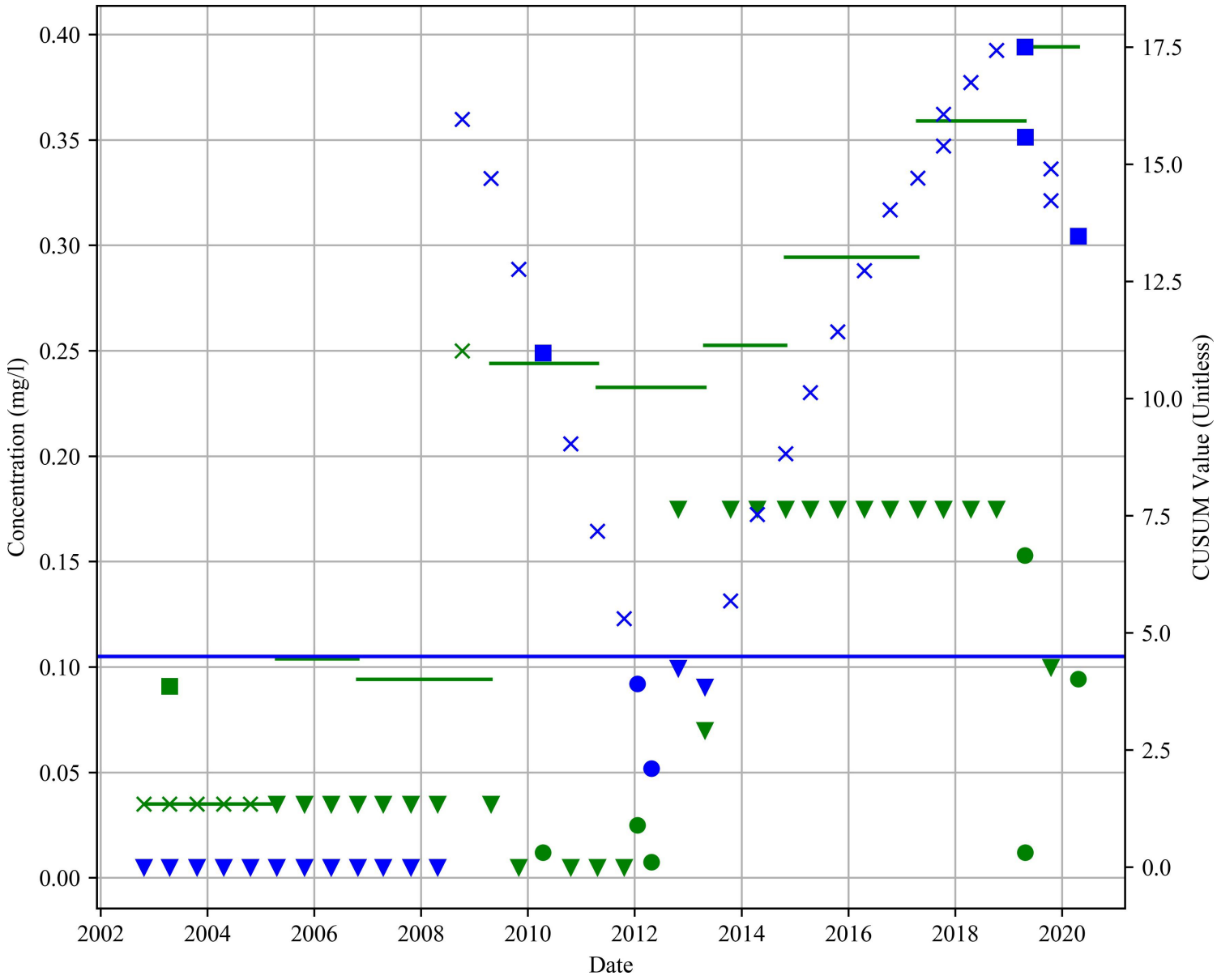
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-122:
Control Chart
MW 14A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

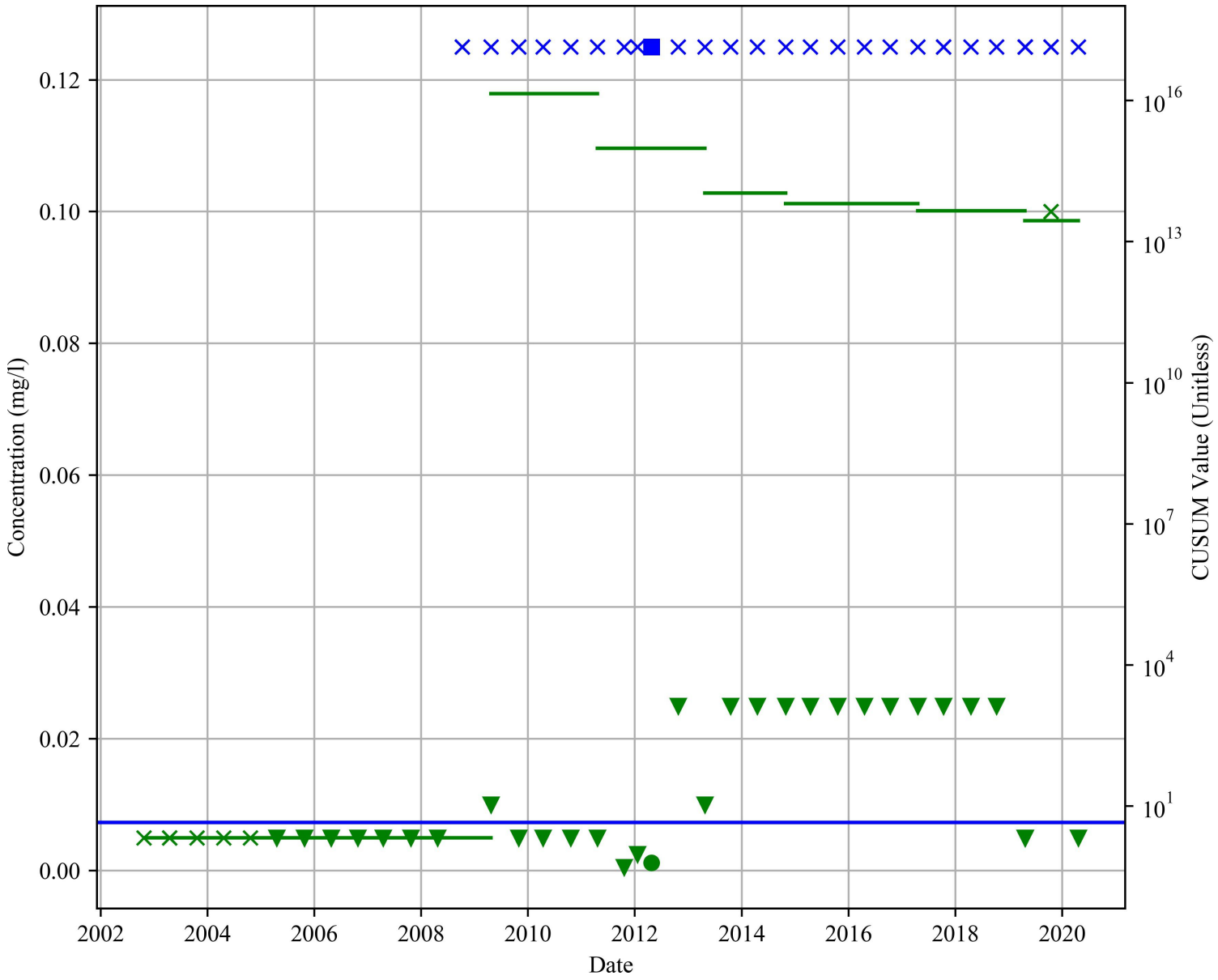
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-123:
Control Chart
MW 14A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

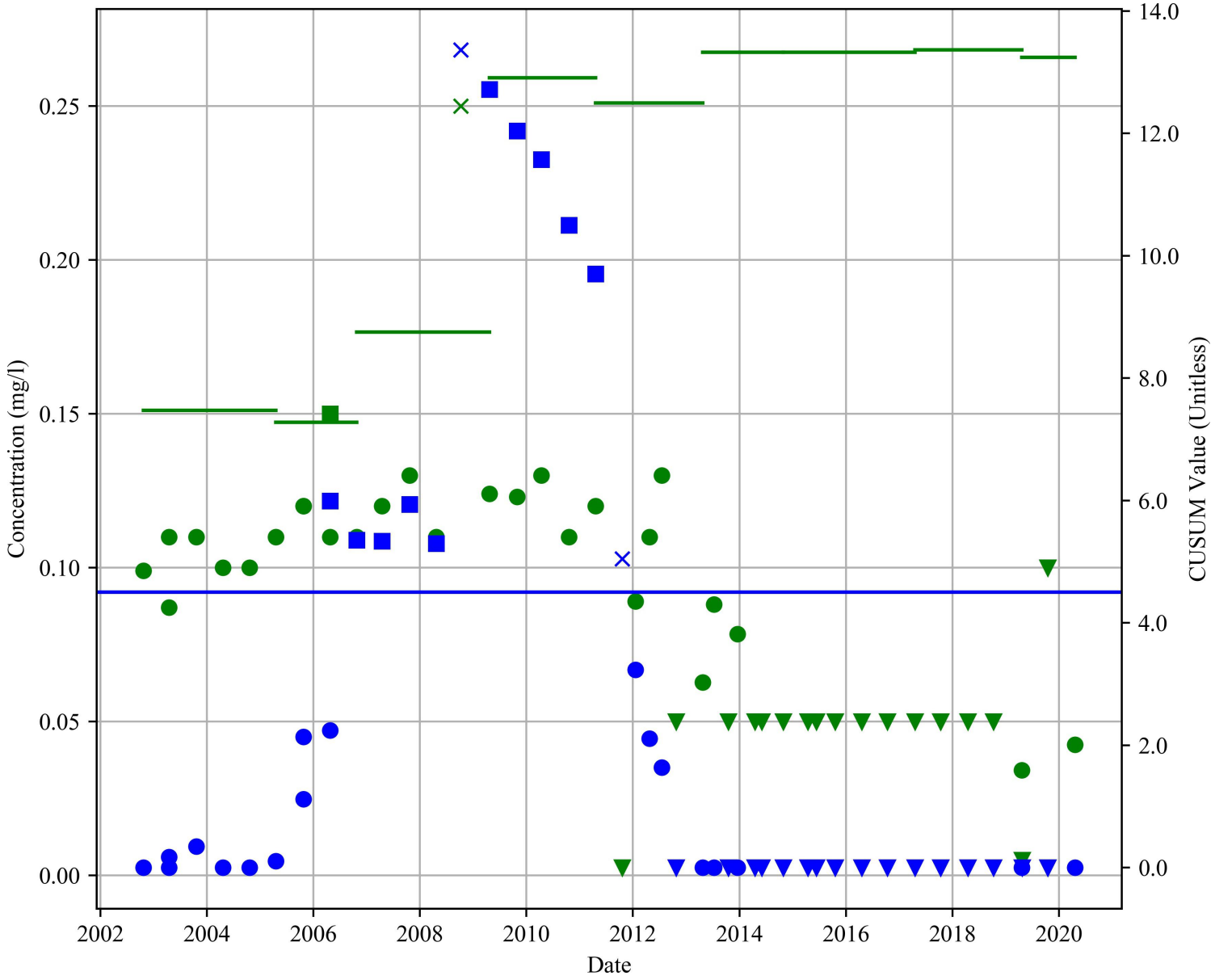
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-124:
Control Chart
MW 14A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

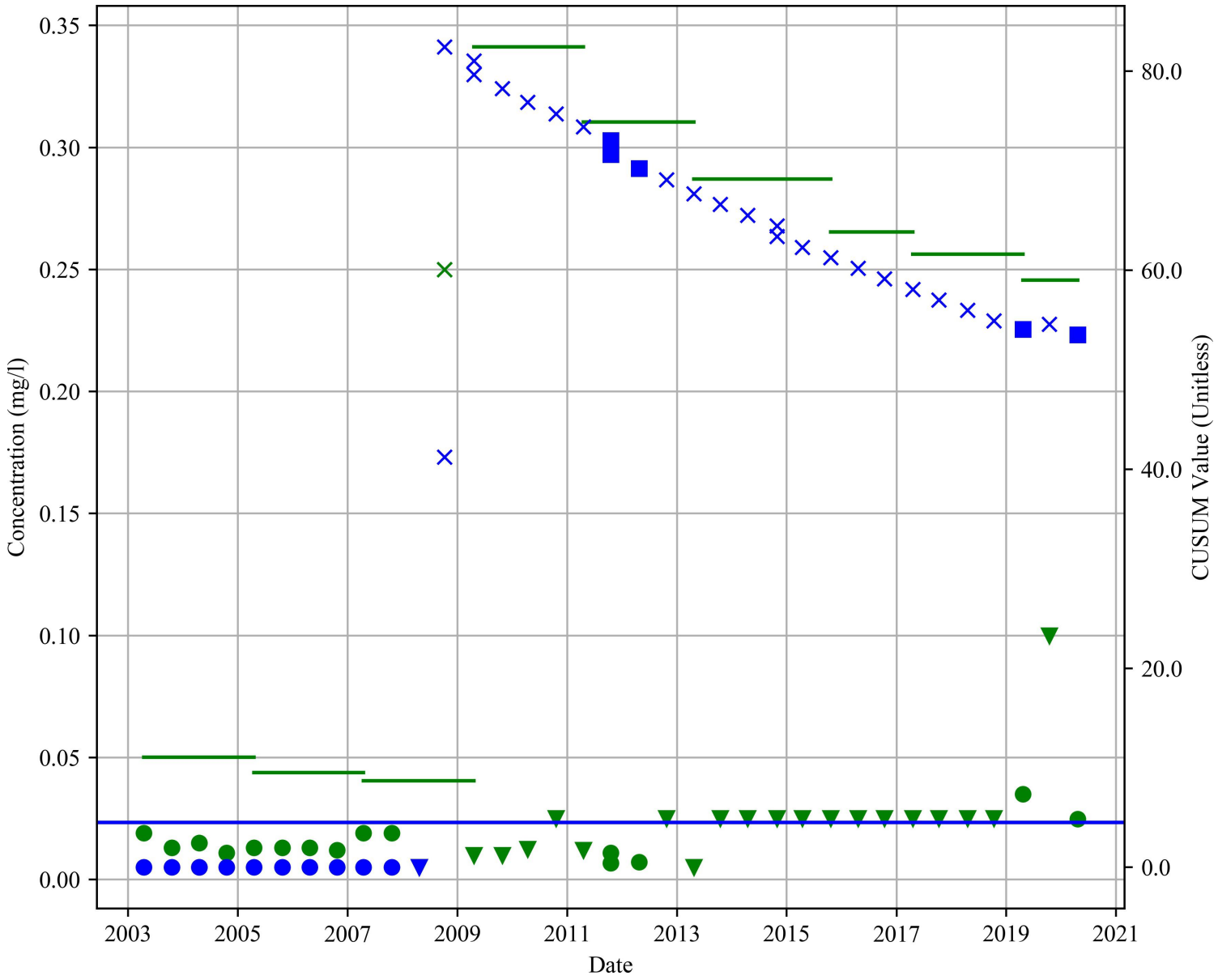
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-125:
Control Chart
MW 14A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

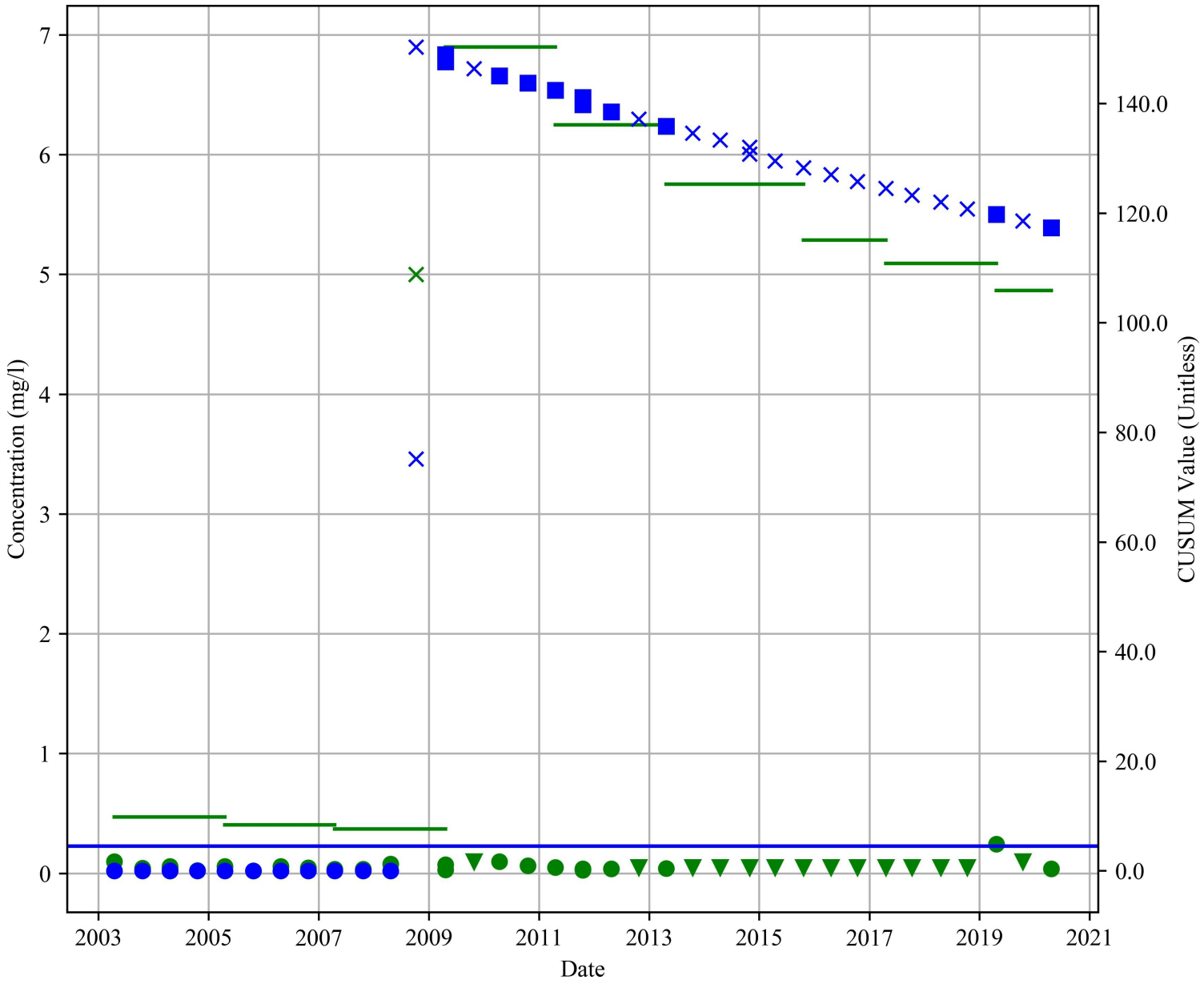
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-126:
Control Chart
MW 14B1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

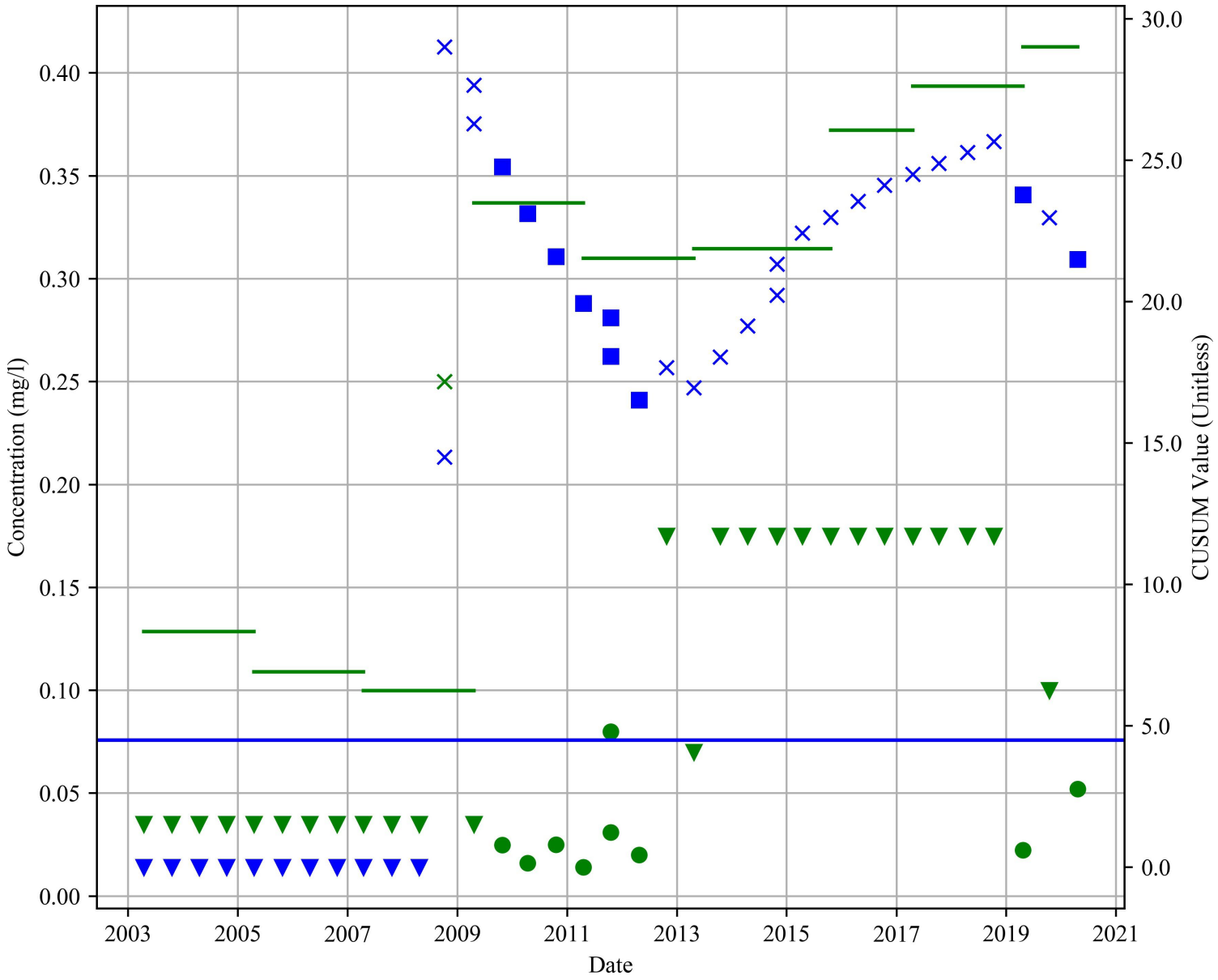
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-127:
Control Chart
MW 14B1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

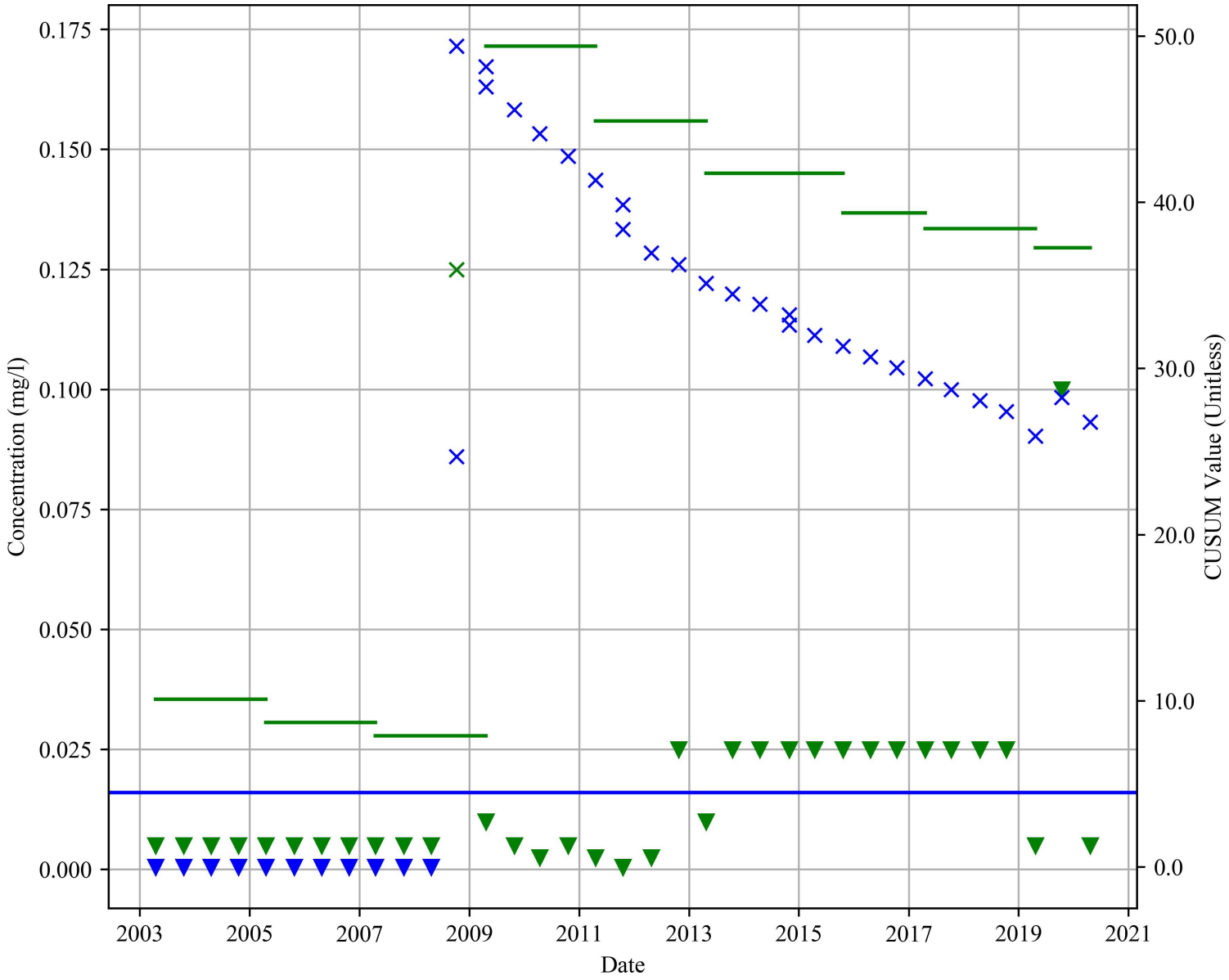
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-128:
Control Chart
MW 14B1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

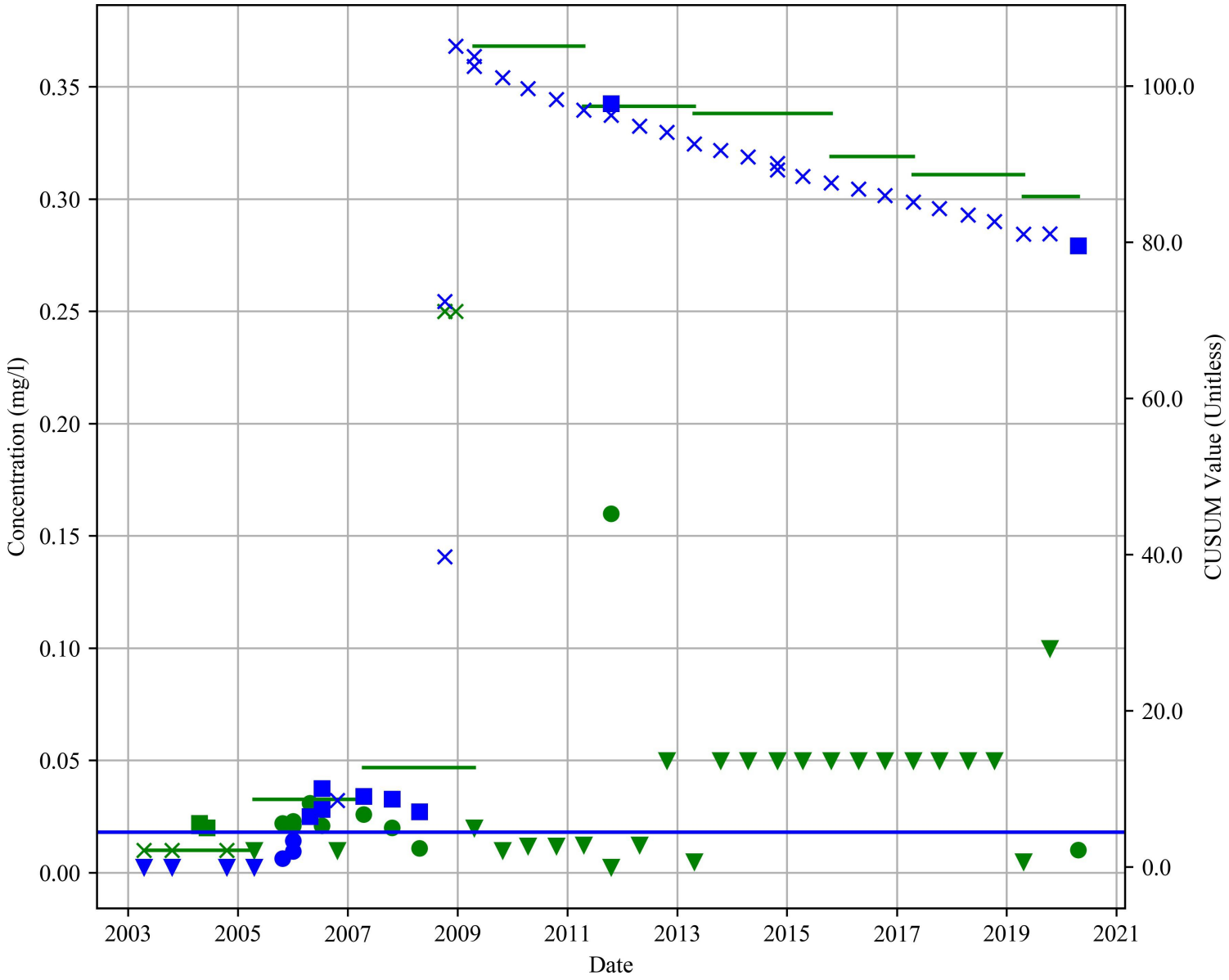
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-129:
Control Chart
MW 14B1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

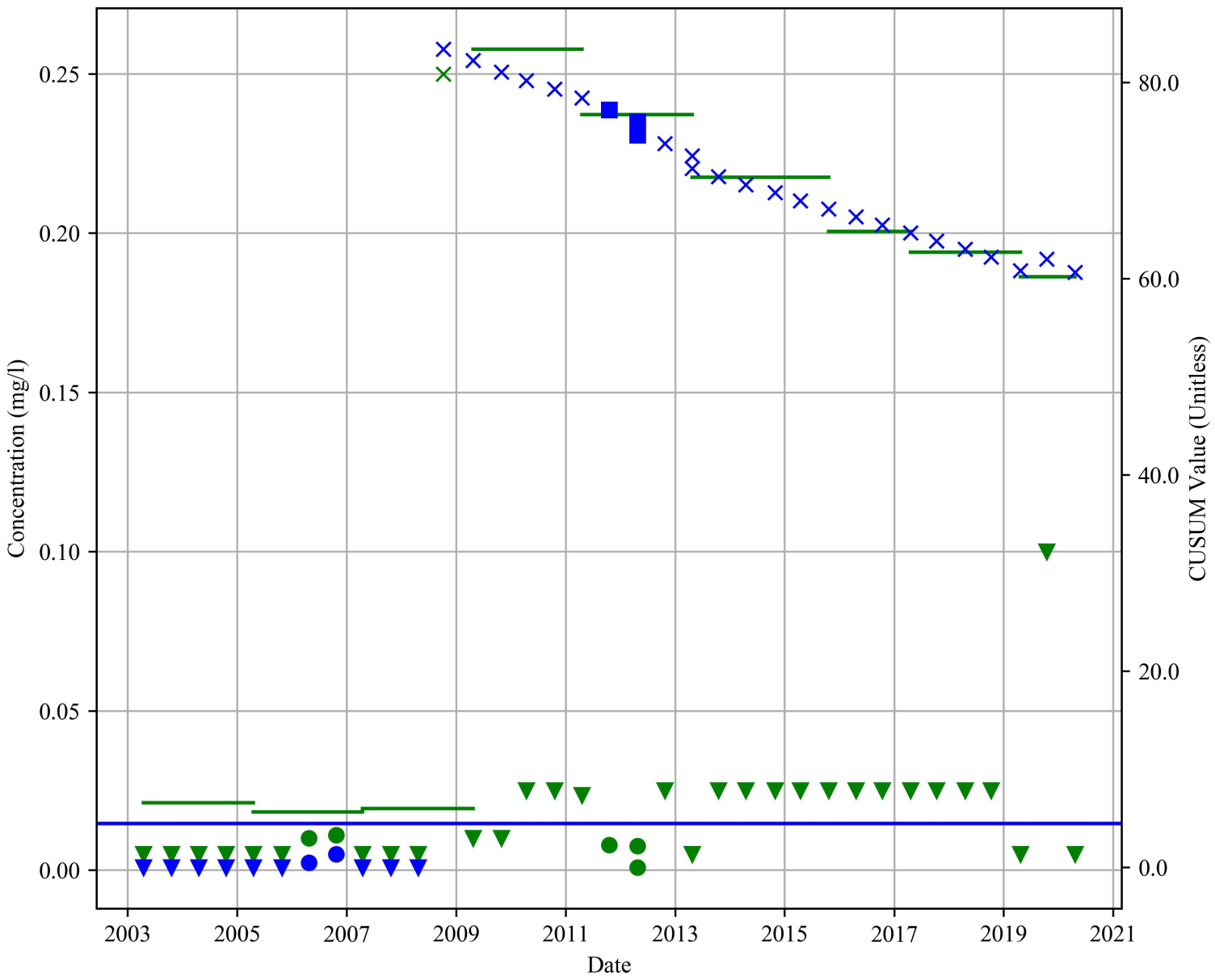
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-130:
Control Chart
MW 14B1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

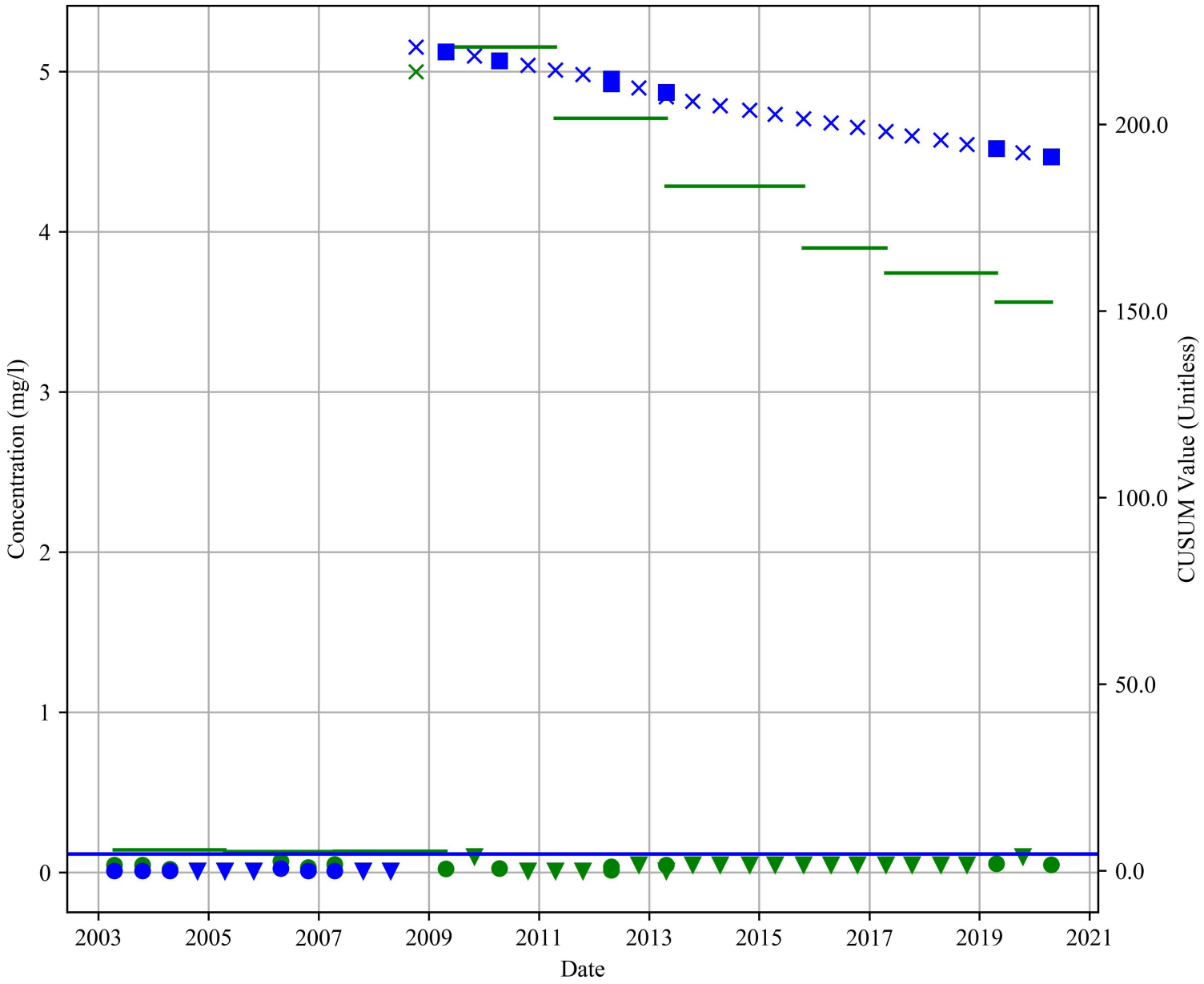
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-131:
Control Chart
MW 14B2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

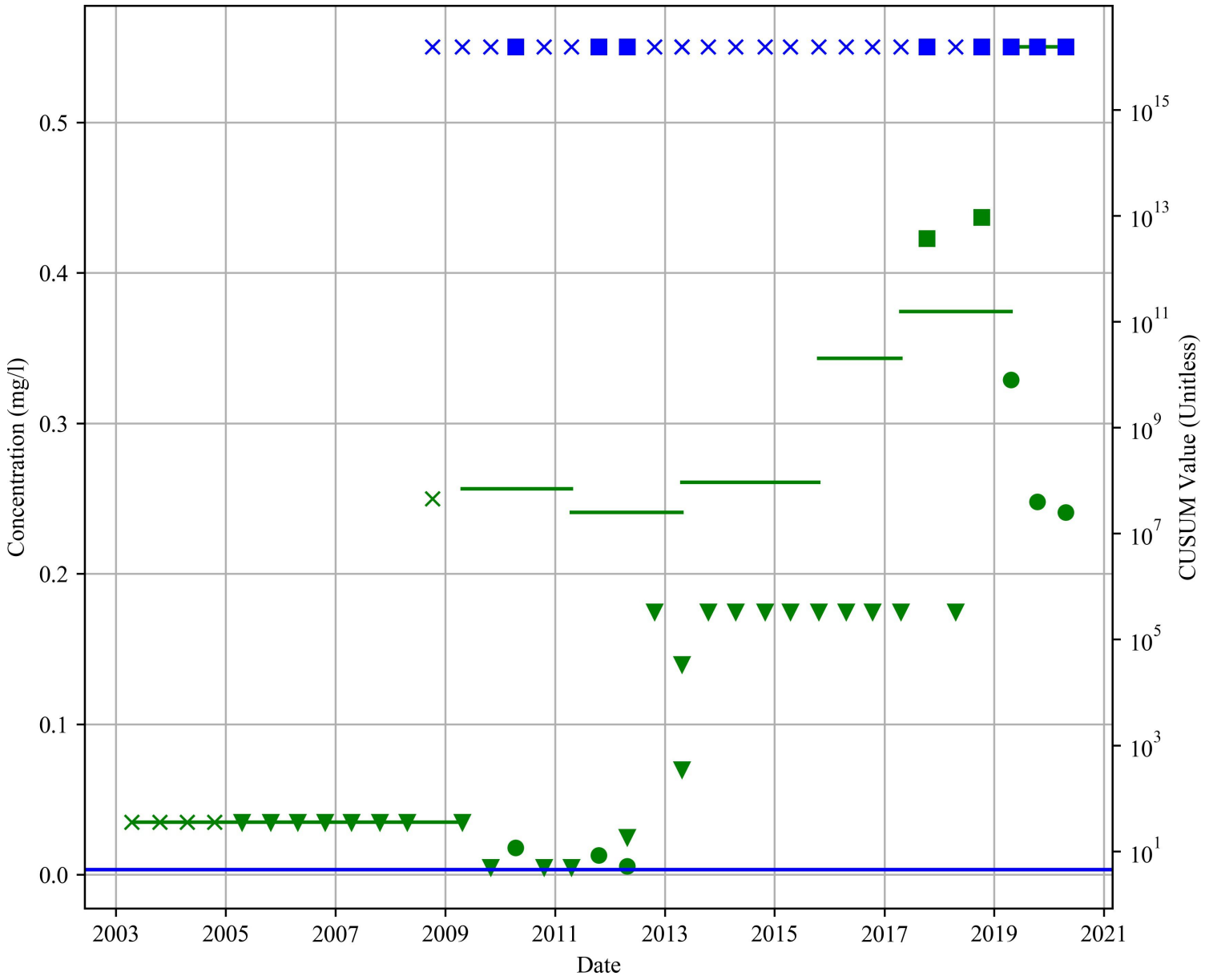
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-132:
Control Chart
MW 14B2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

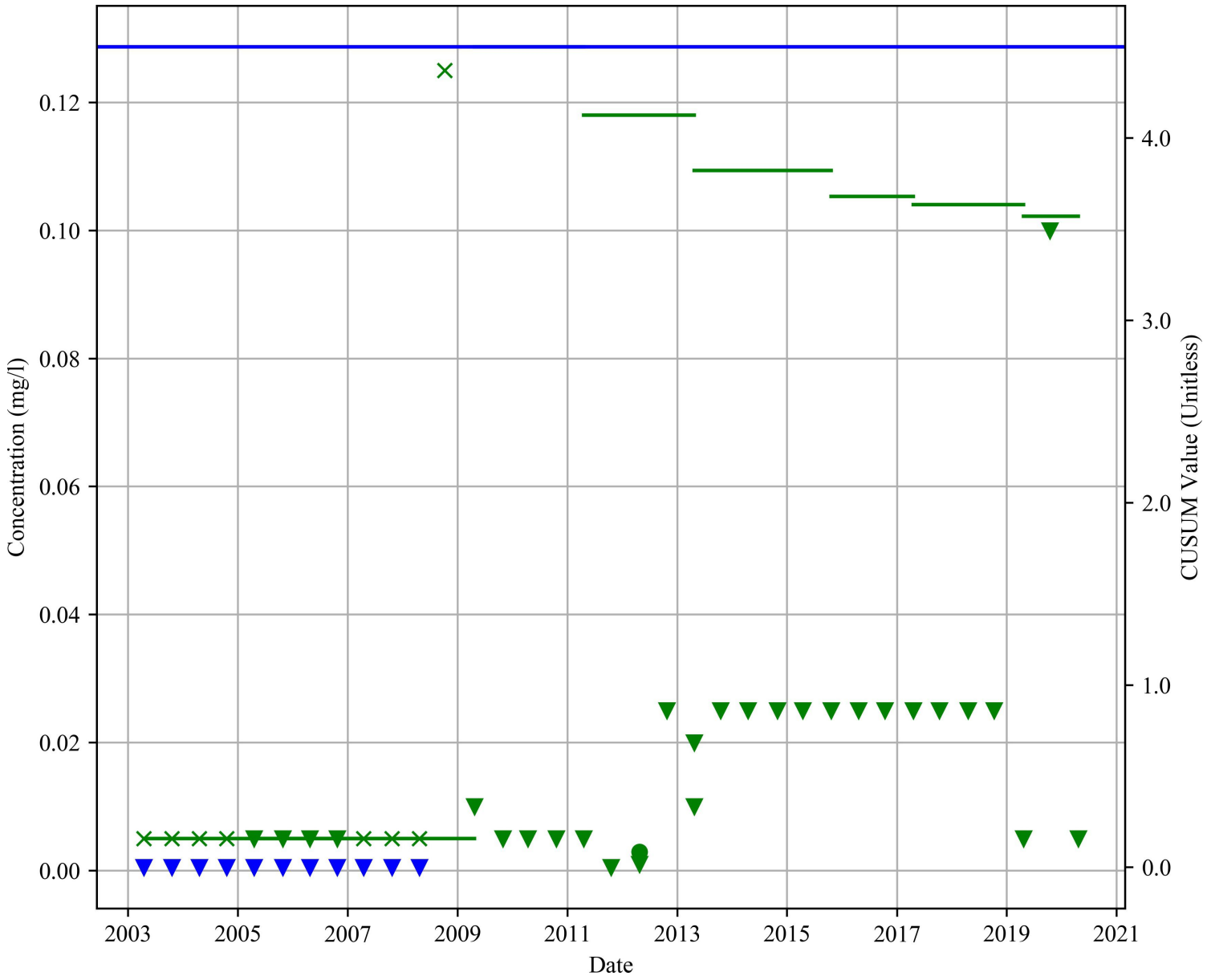
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-133:
Control Chart
MW 14B2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

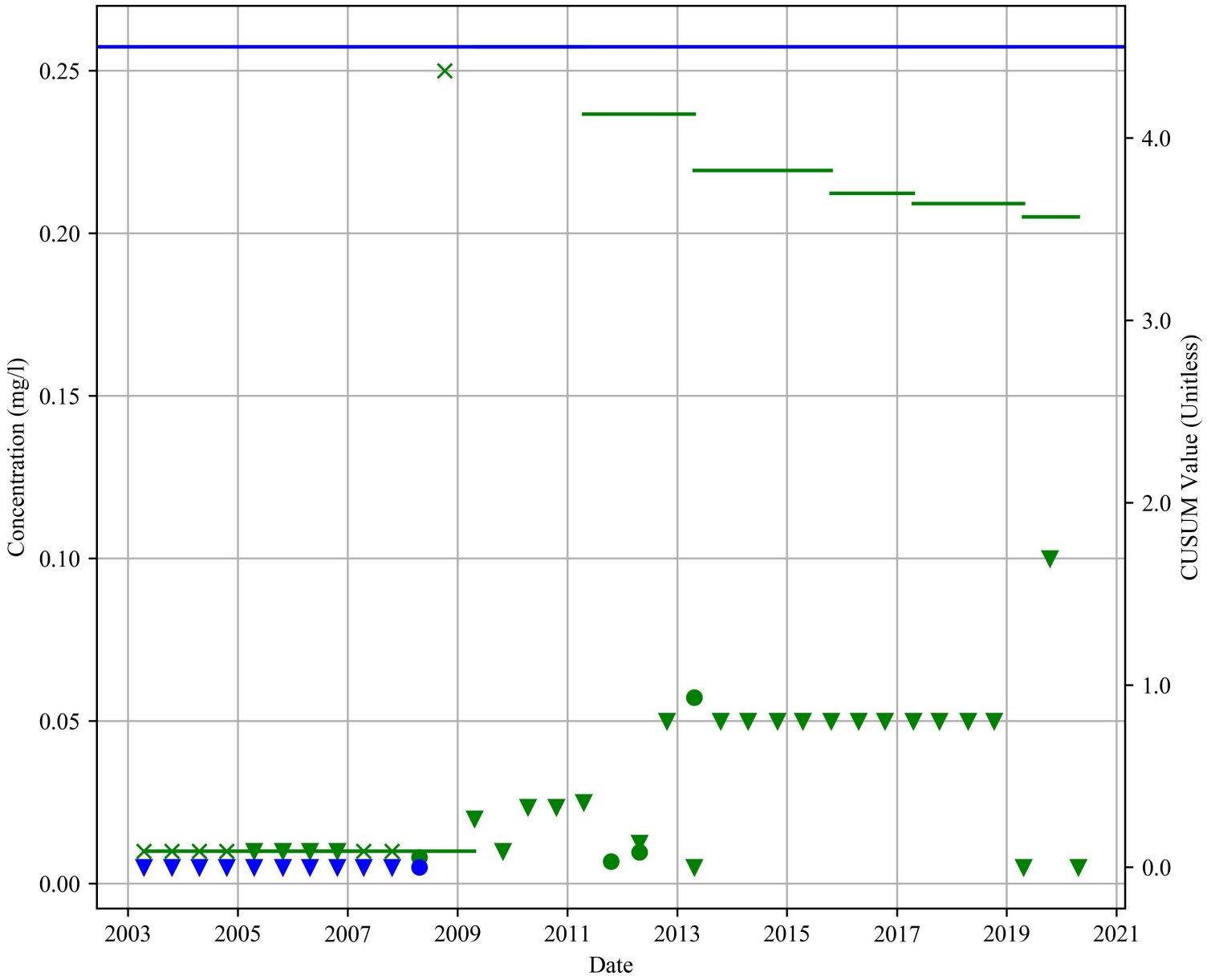
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-134:
Control Chart
MW 14B2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

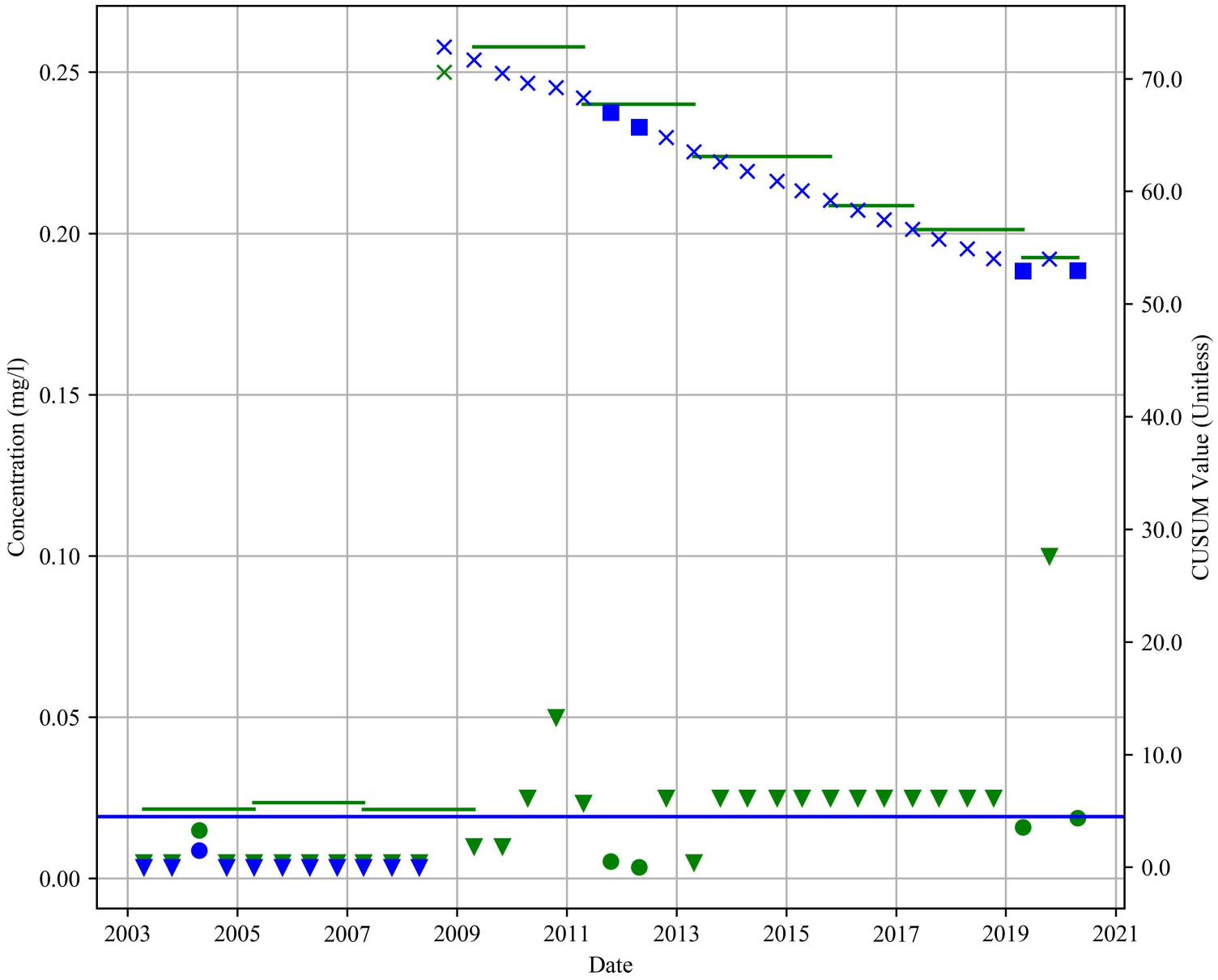
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-135:
Control Chart
MW 14B2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

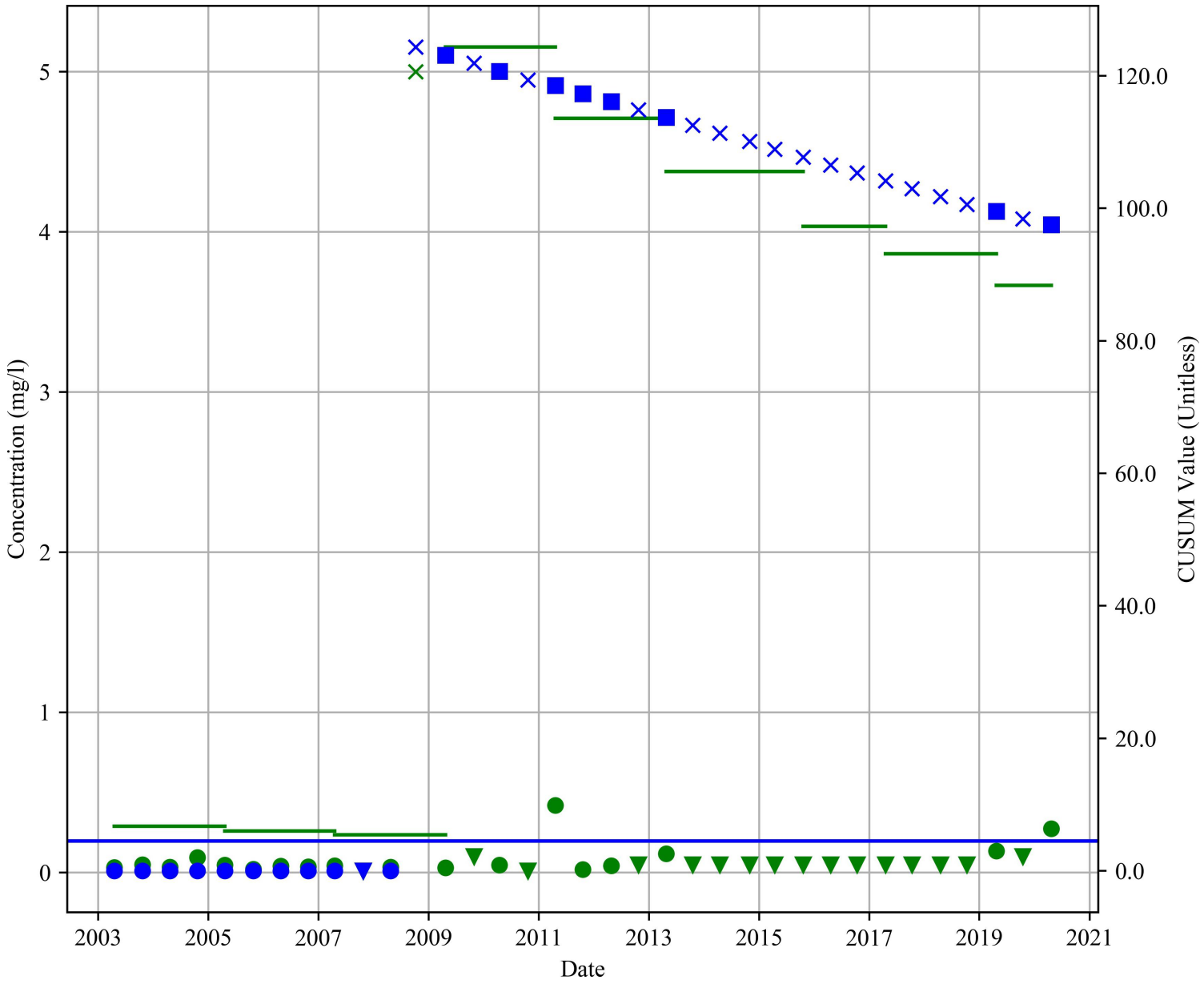
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-136:
Control Chart
MW 15A1
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

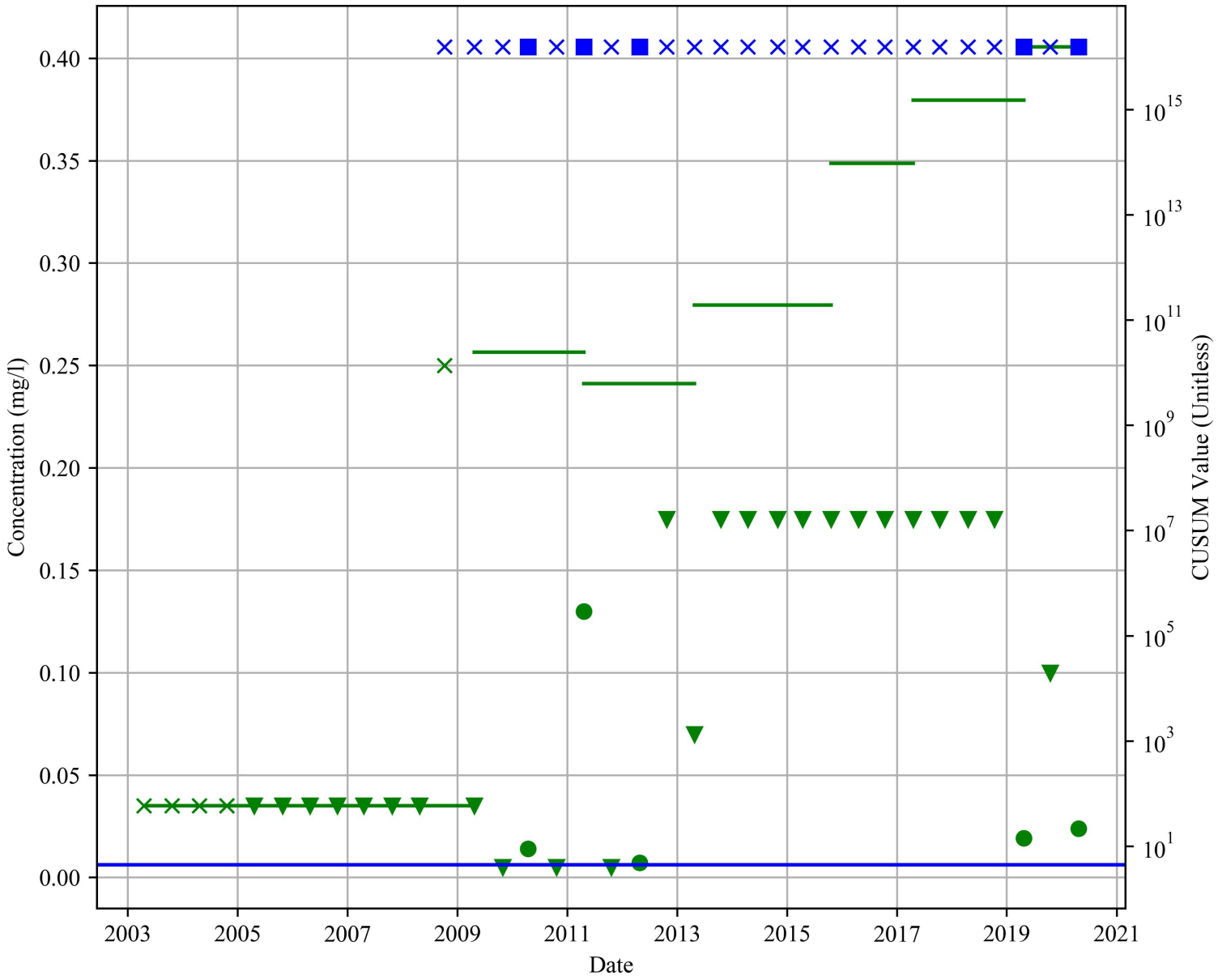
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-137:
Control Chart
MW 15A1
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

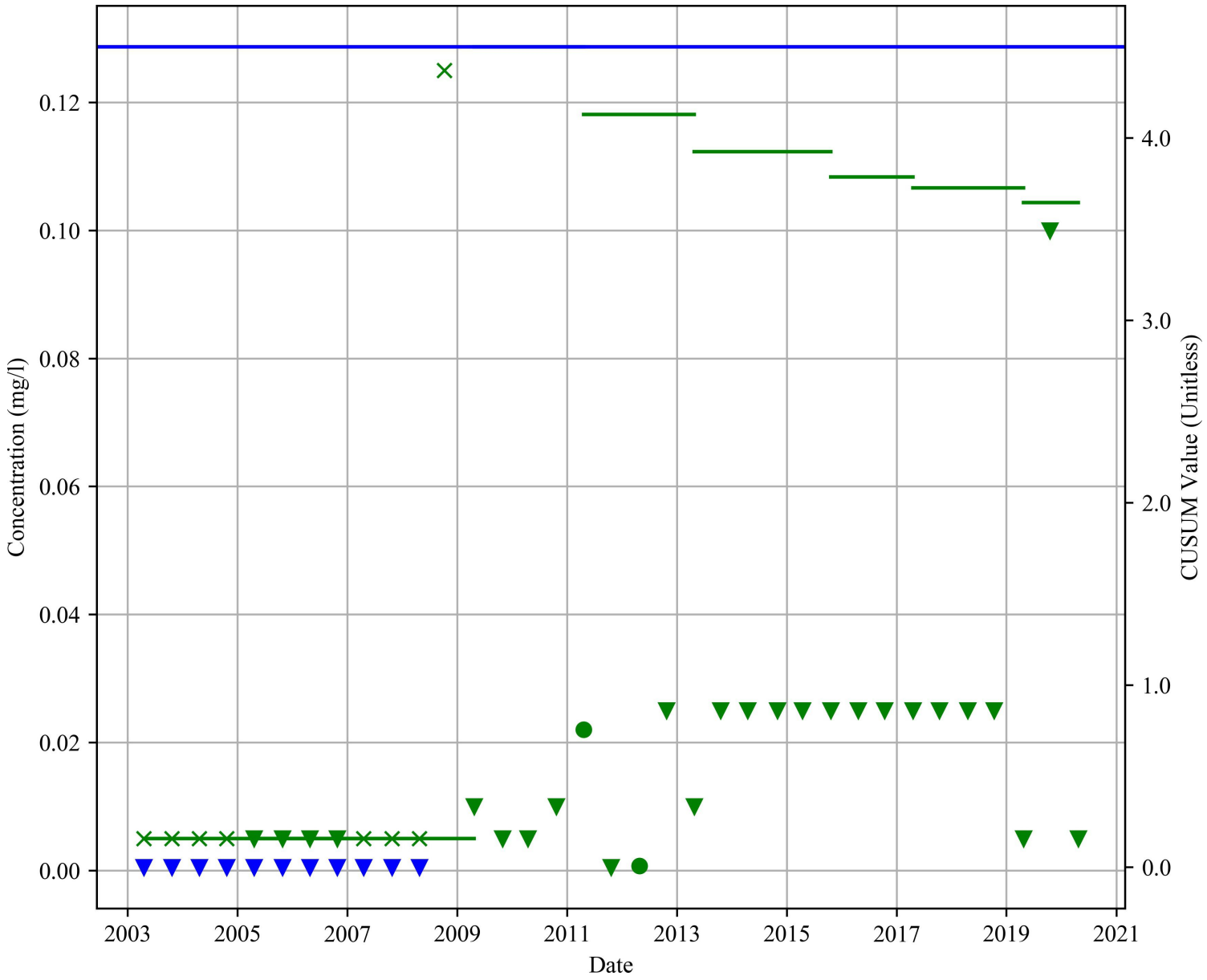
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-138:
Control Chart
MW 15A1
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

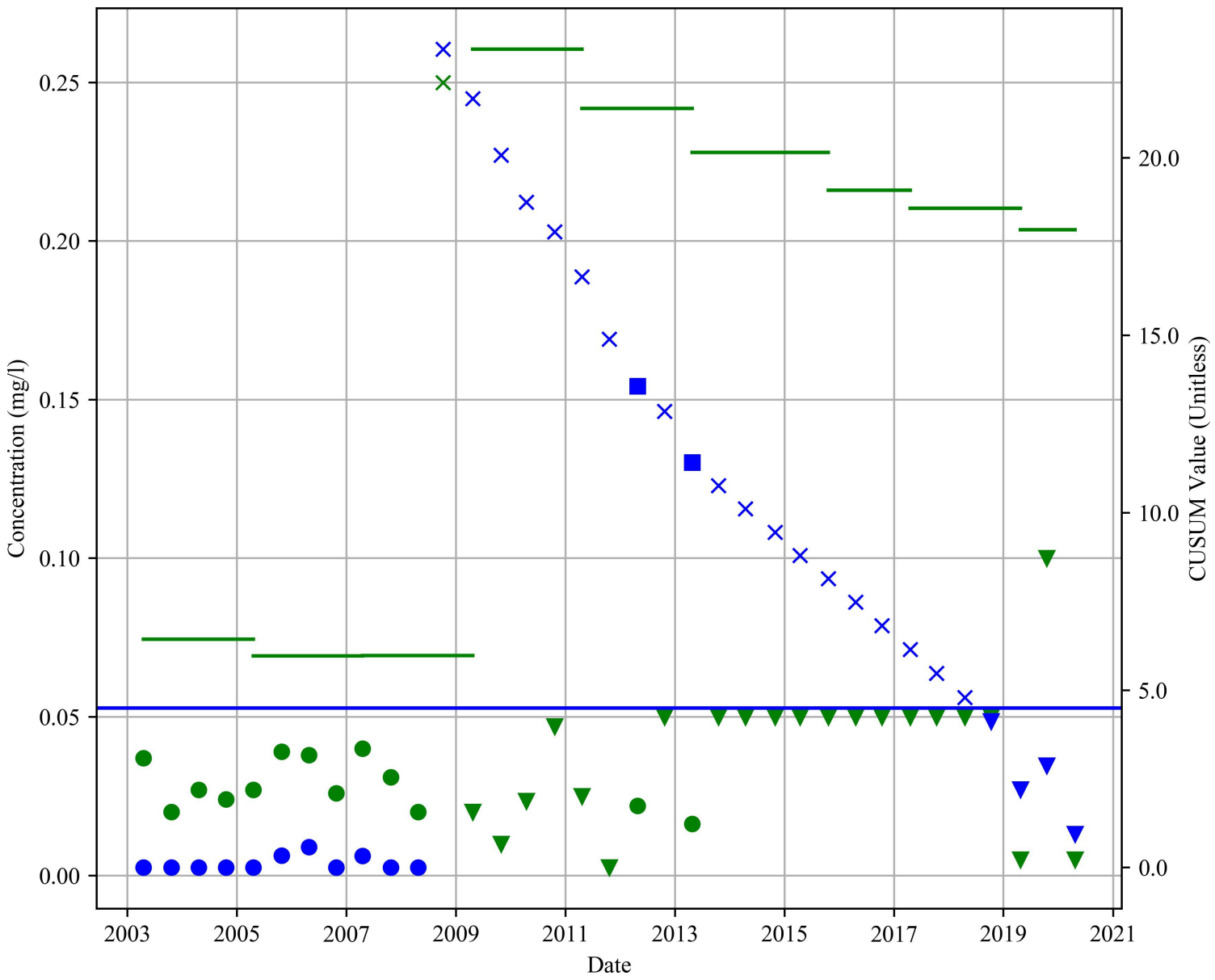
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-139:
Control Chart
MW 15A1
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

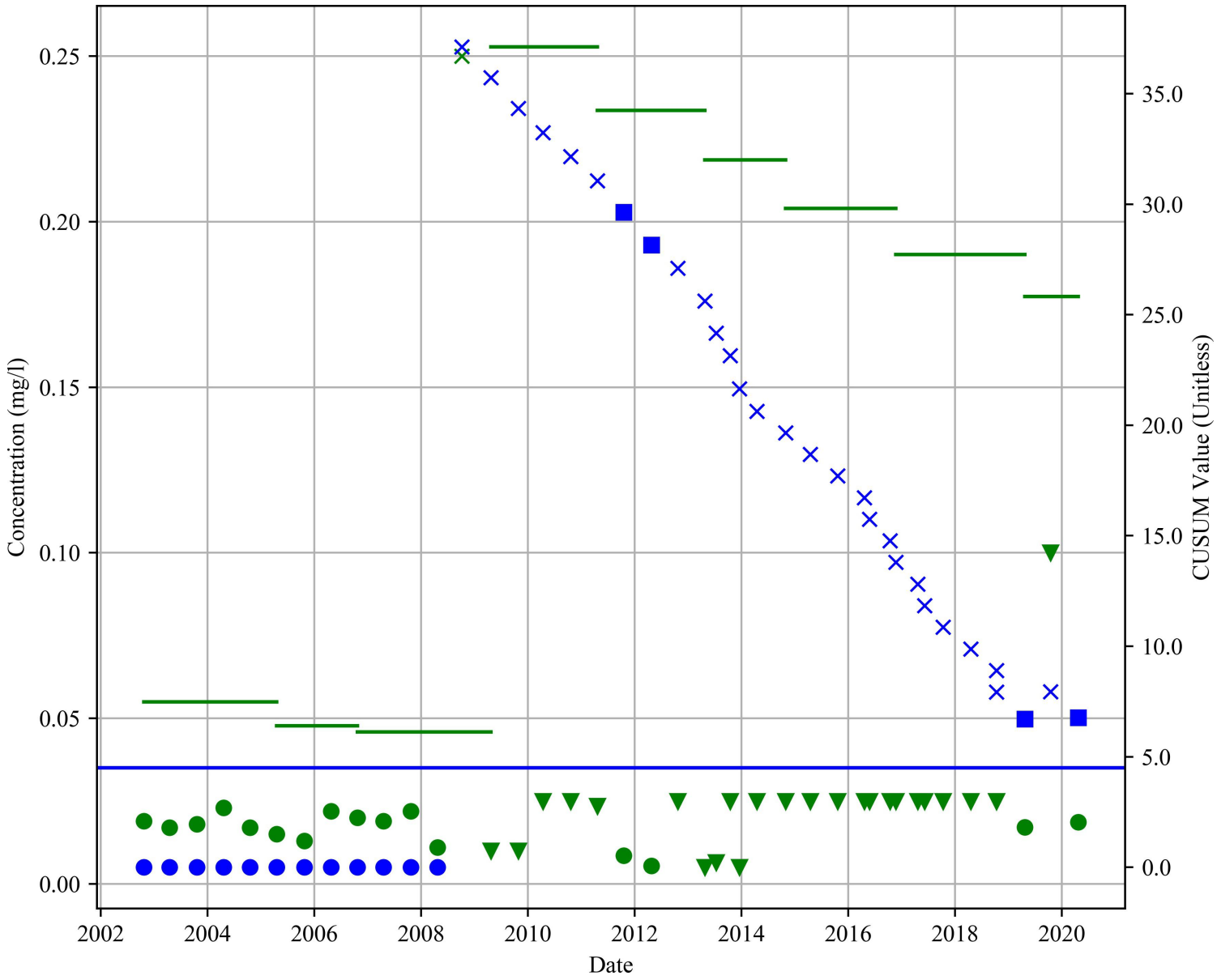
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-140:
Control Chart
MW 15A1
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

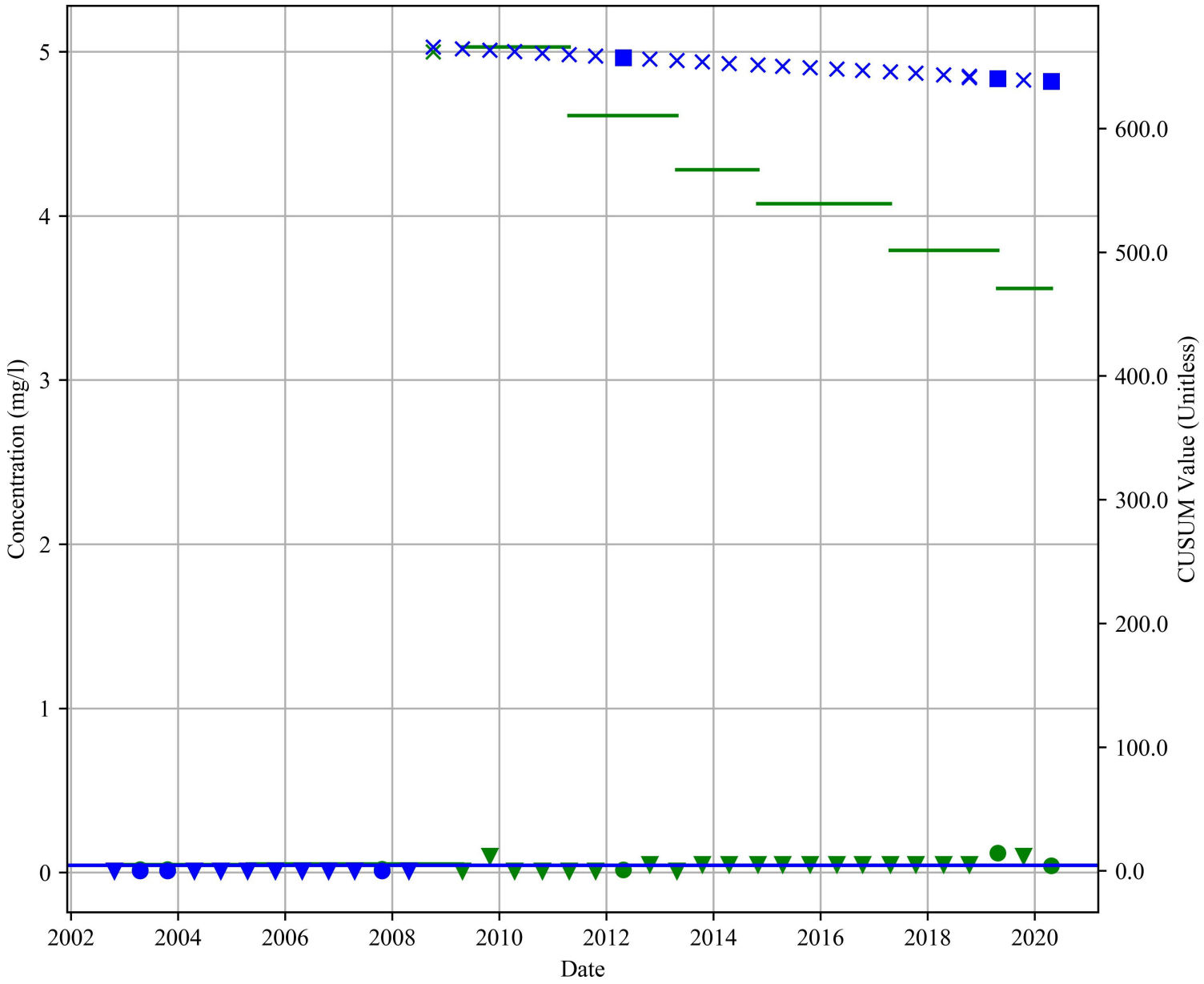
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-141:
Control Chart
MW 15A2
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

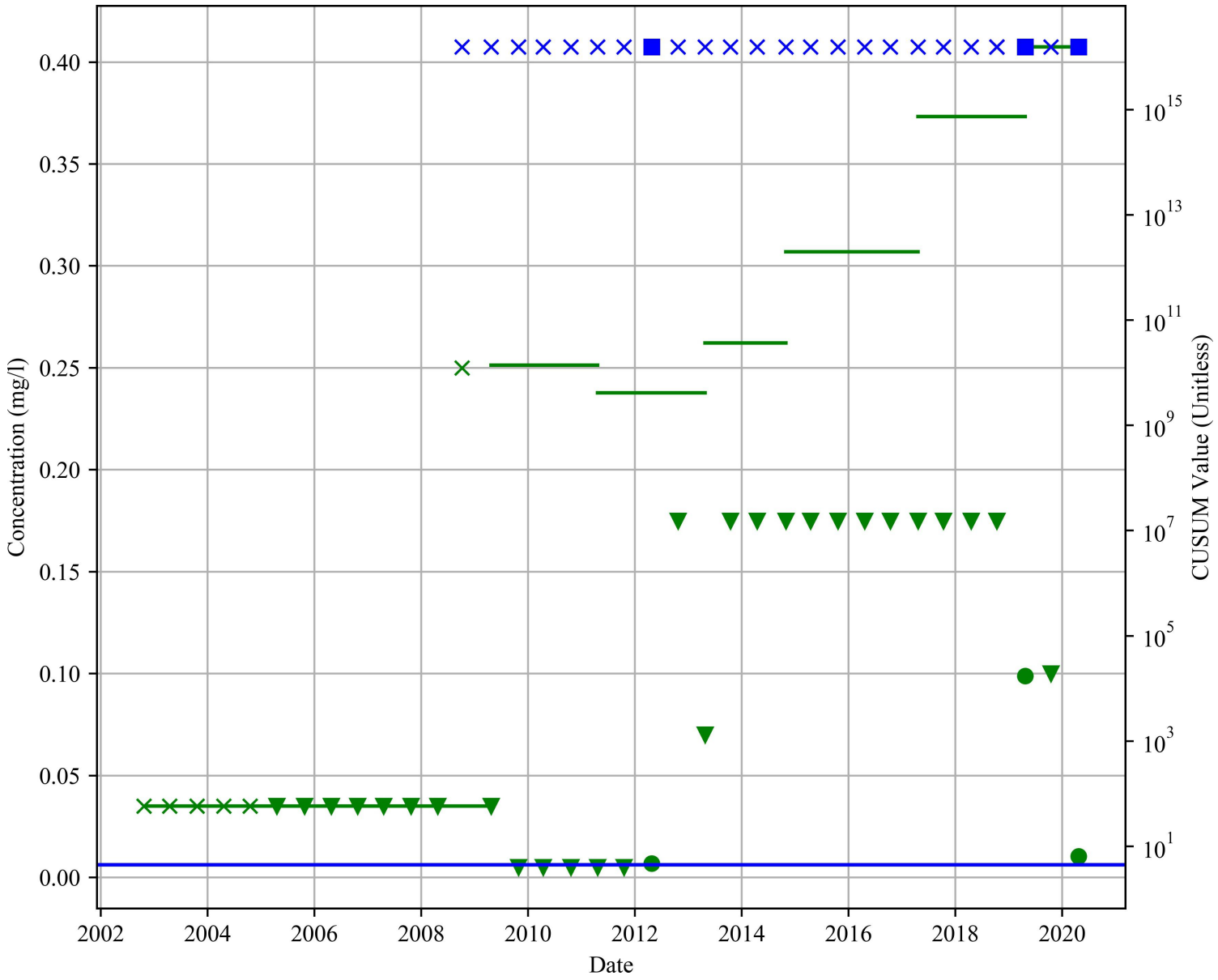
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-142:
Control Chart
MW 15A2
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

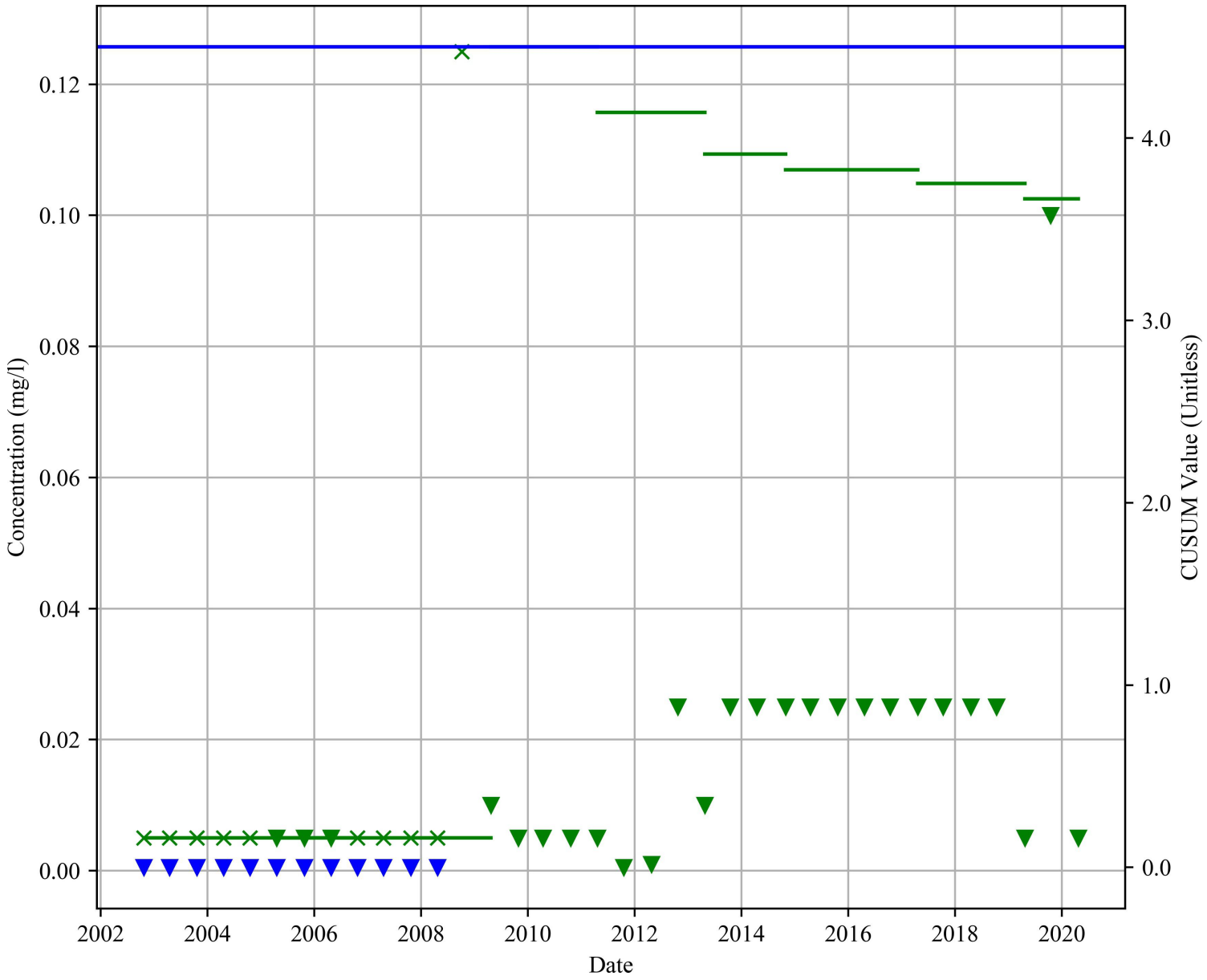
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-143:
Control Chart
MW 15A2
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

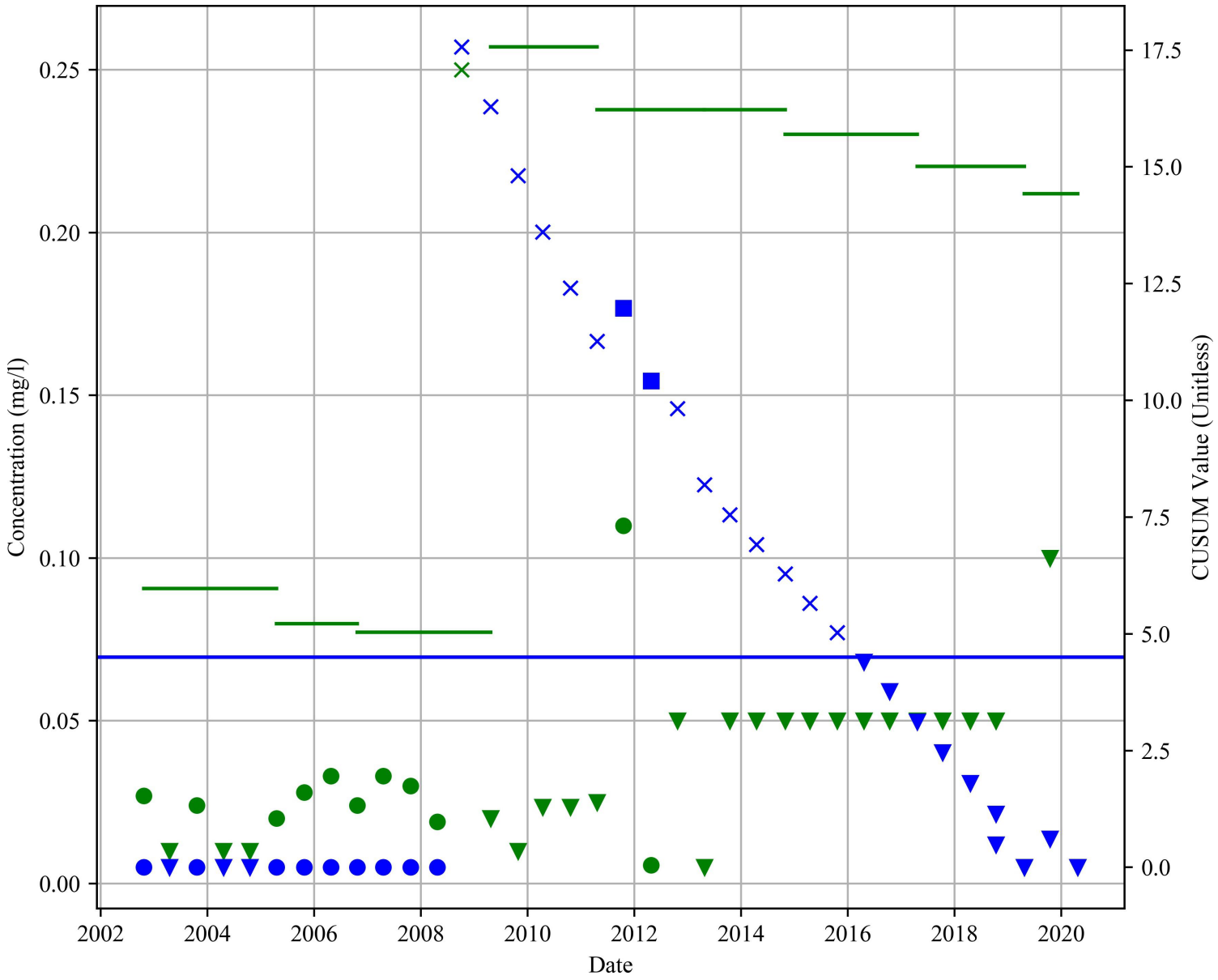
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-144:
Control Chart
MW 15A2
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

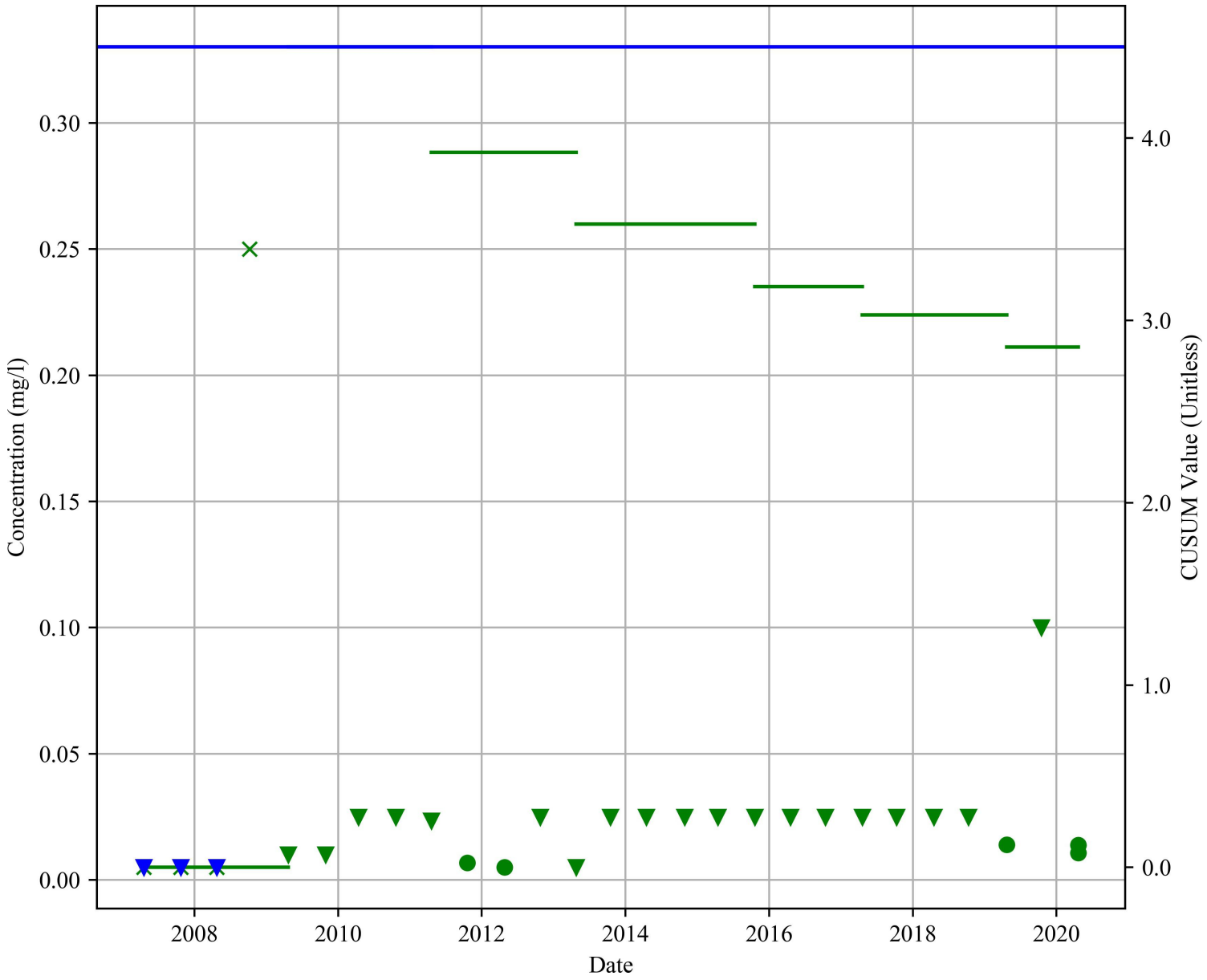
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-145:
Control Chart
MW 15A2
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

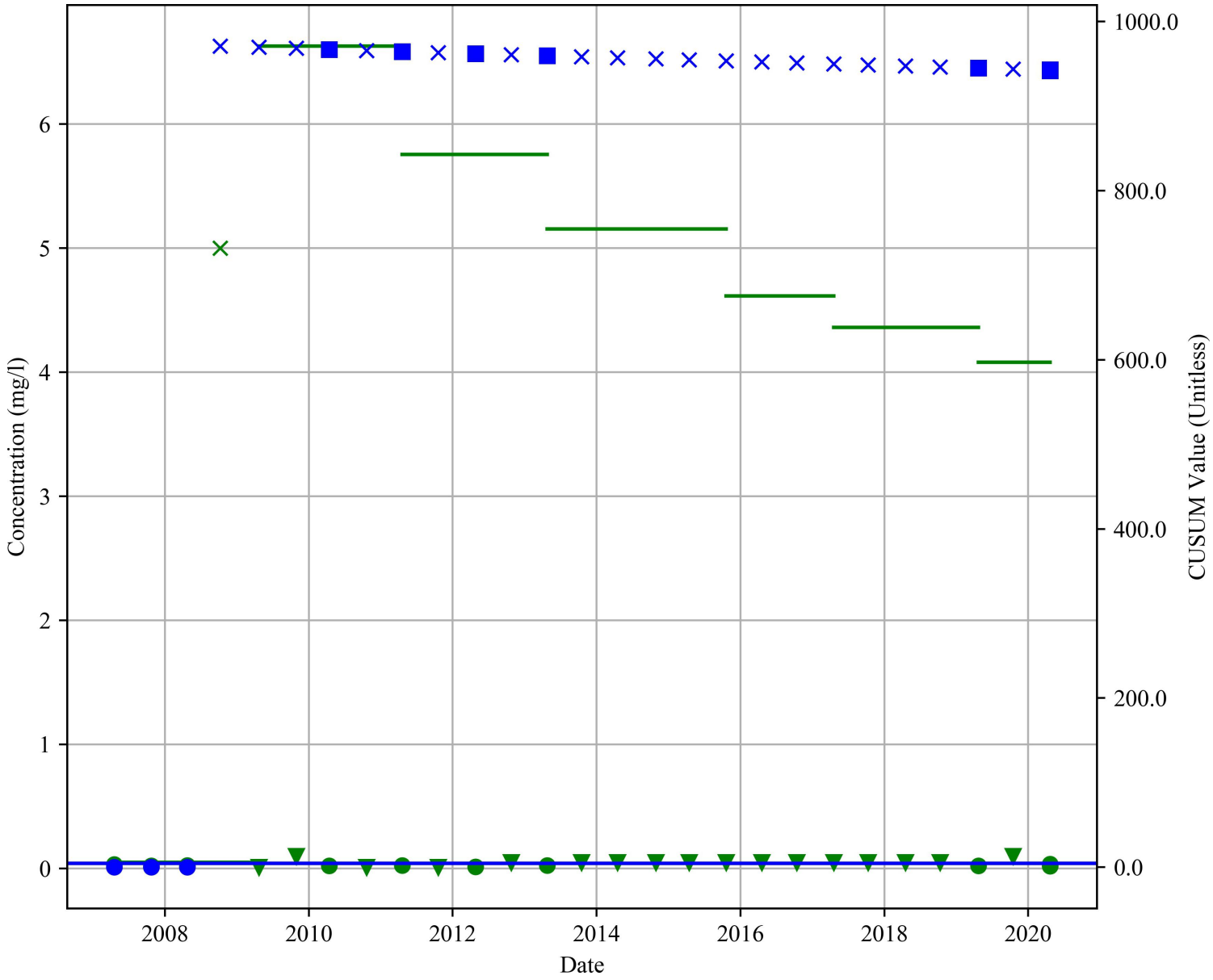
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-146:
Control Chart
MW 15A3
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

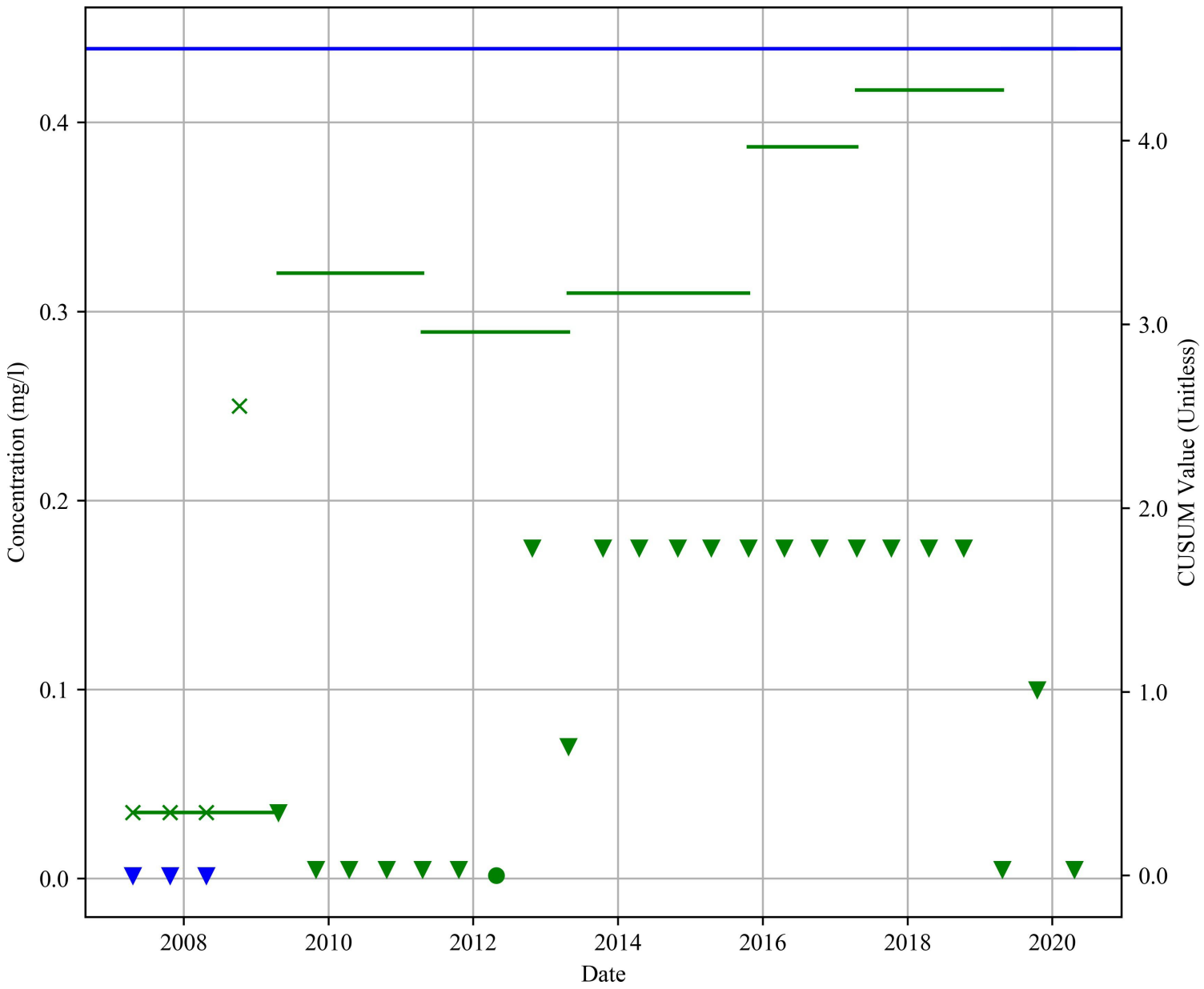
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-147:
Control Chart
MW 15A3
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

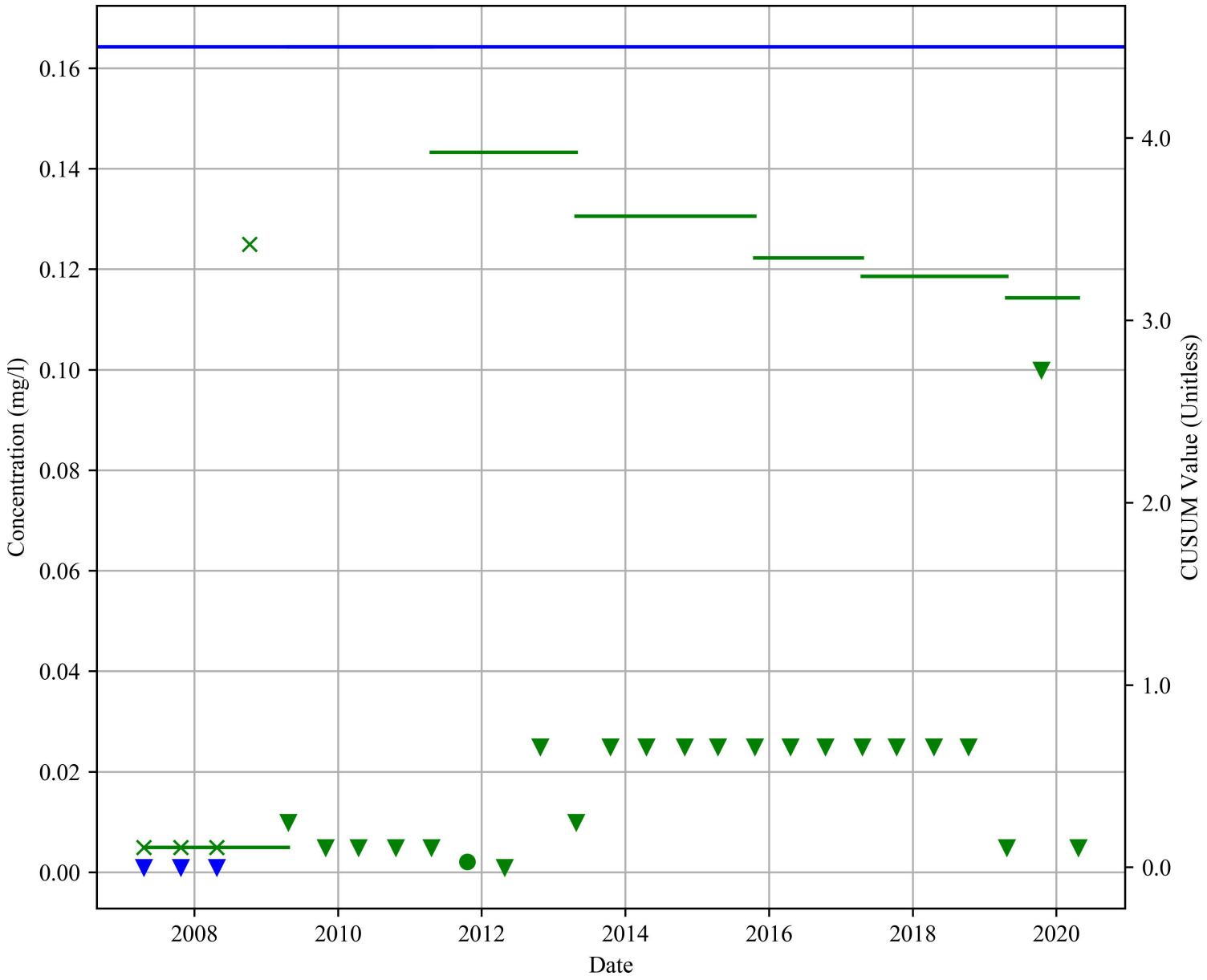
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-148:
Control Chart
MW 15A3
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

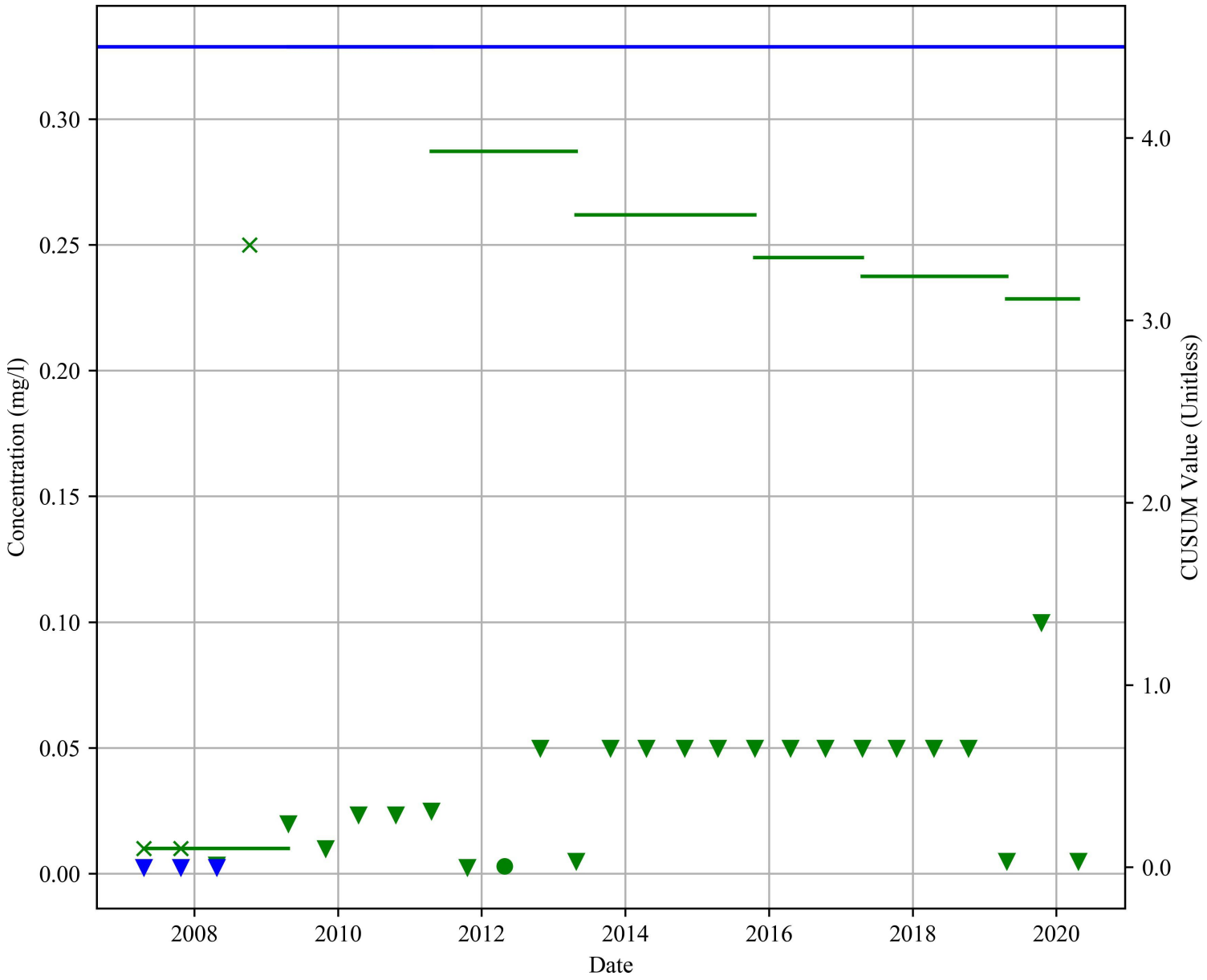
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-149:
Control Chart
MW 15A3
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

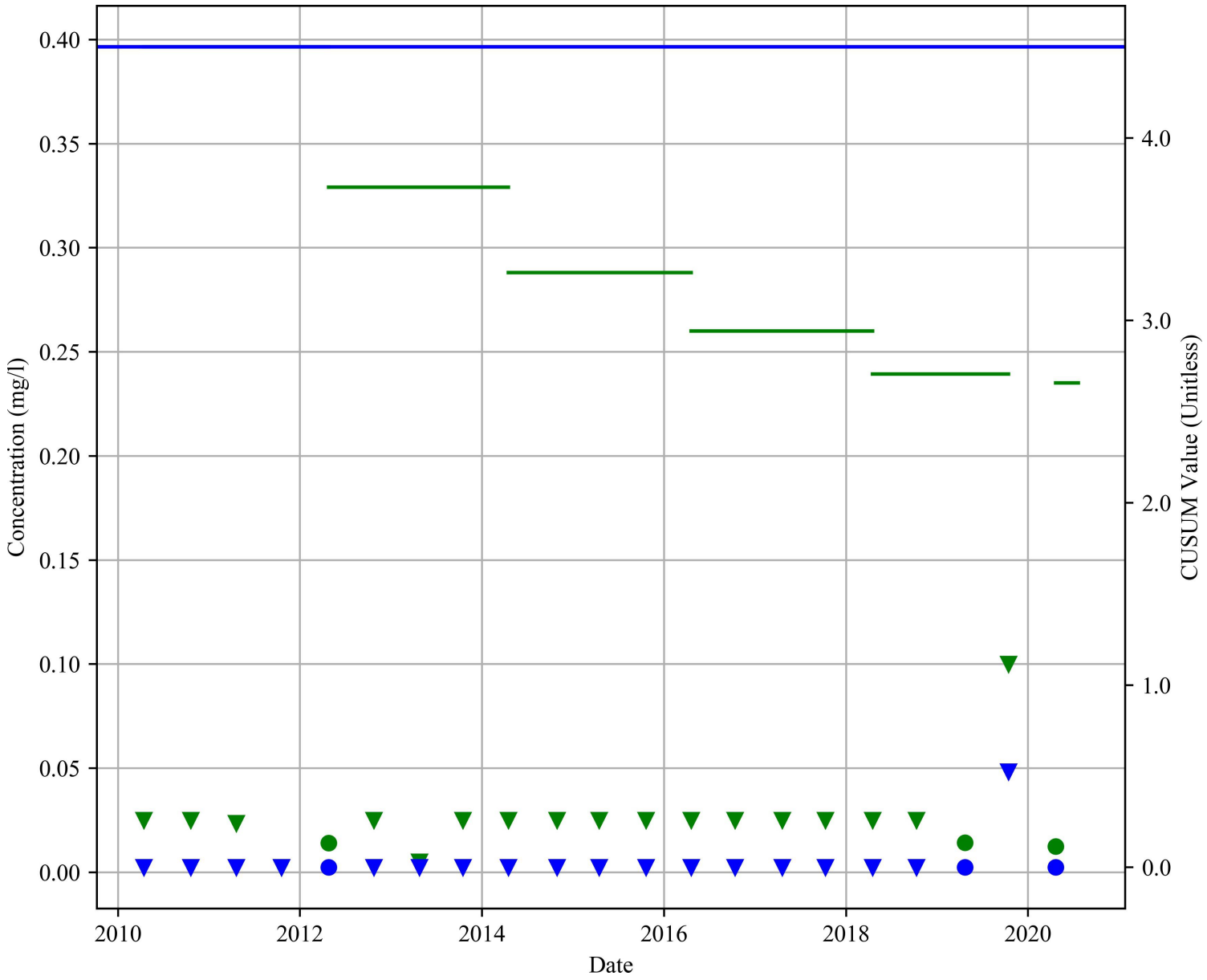
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-150:
Control Chart
MW 15A3
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

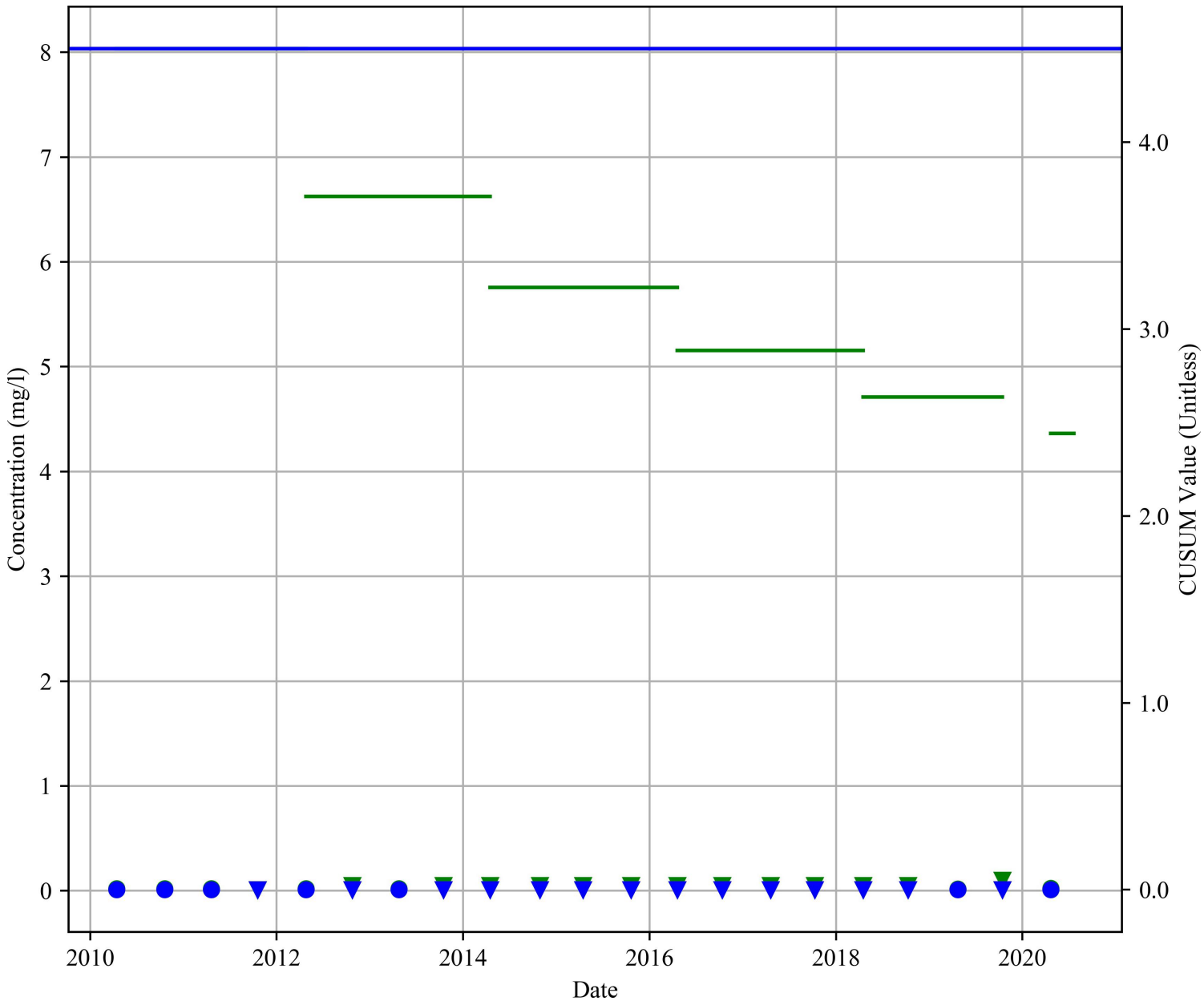
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-151:
Control Chart
MW 15A4
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

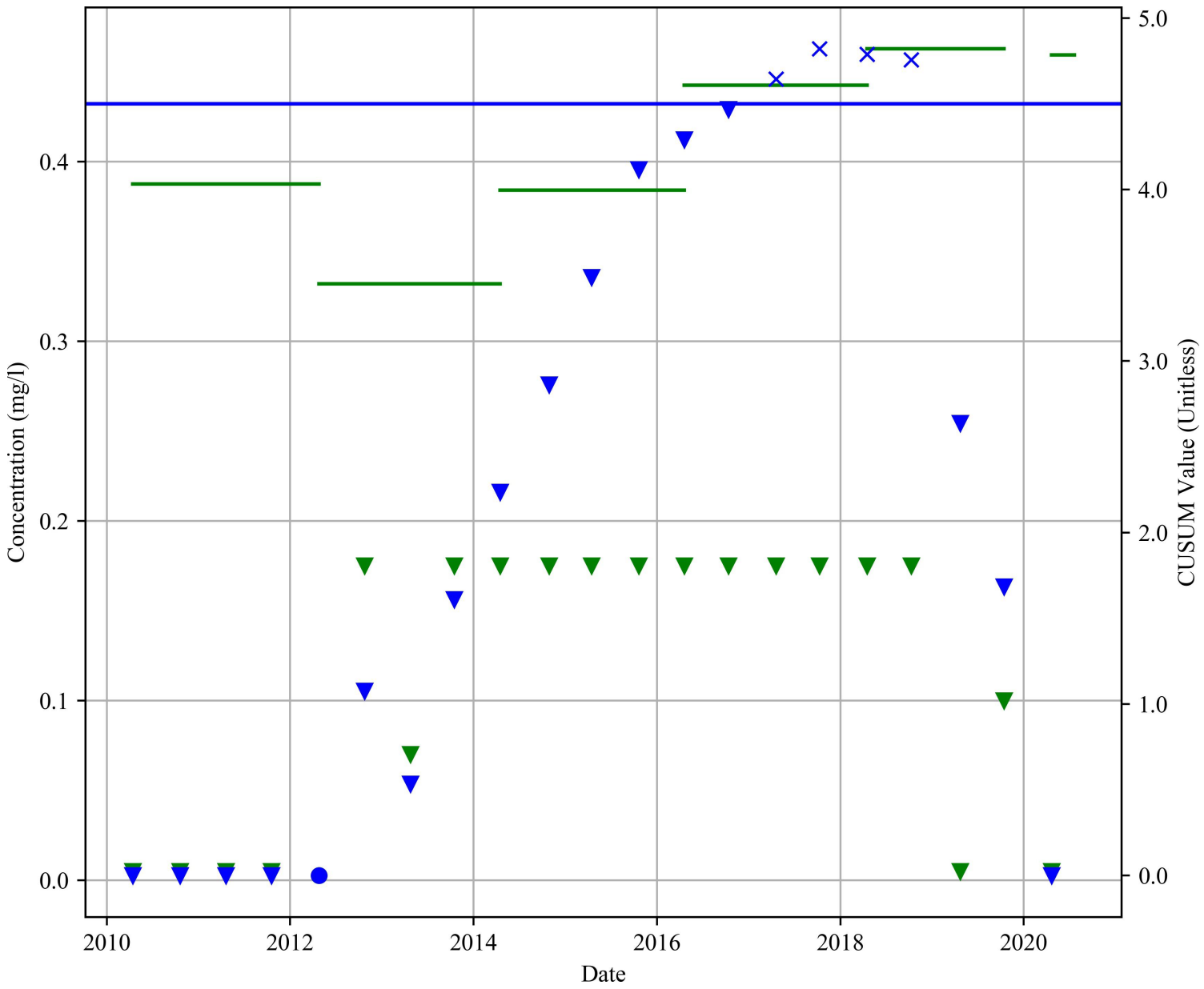
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-152:
Control Chart
MW 15A4
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

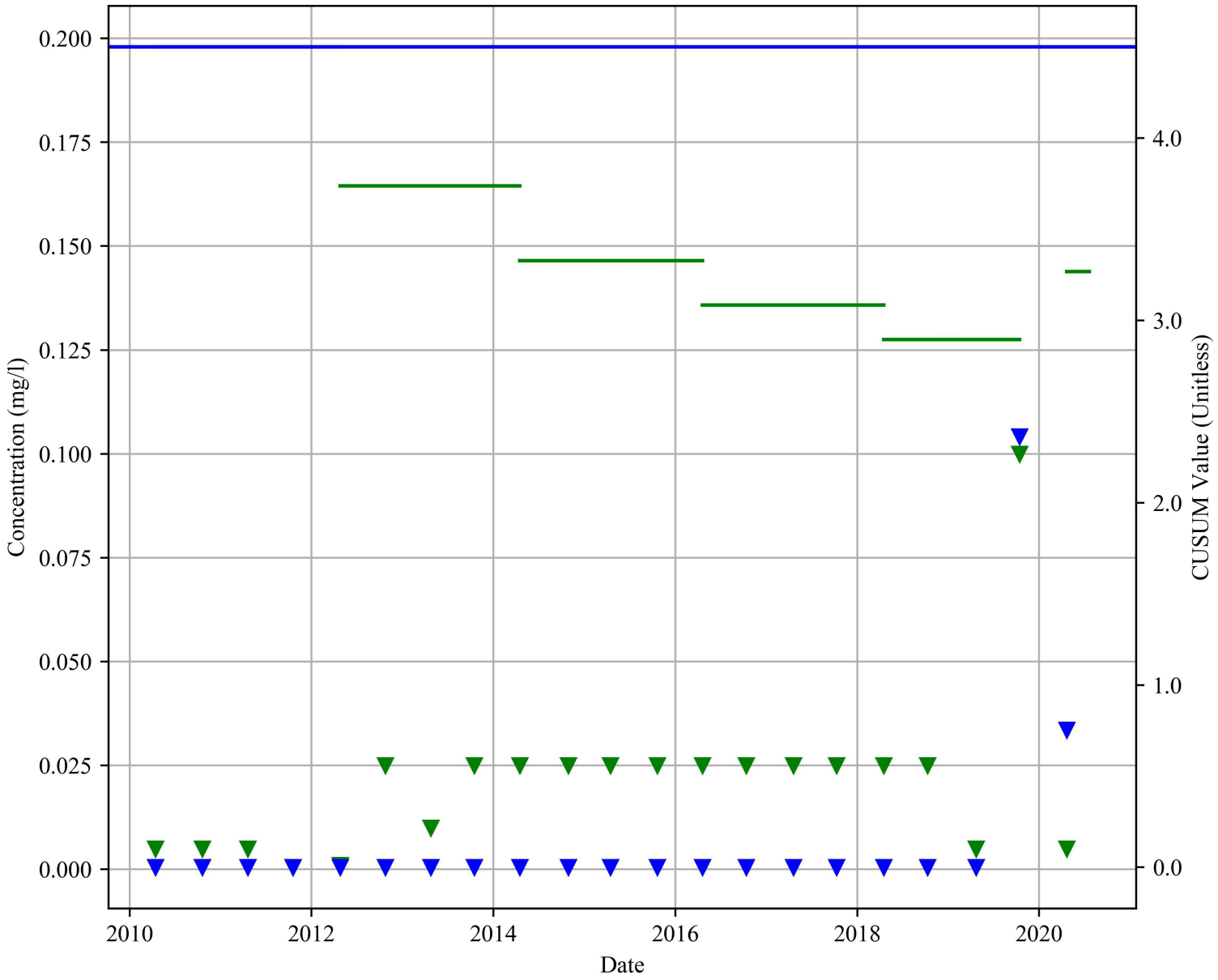
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-153:
Control Chart
MW 15A4
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

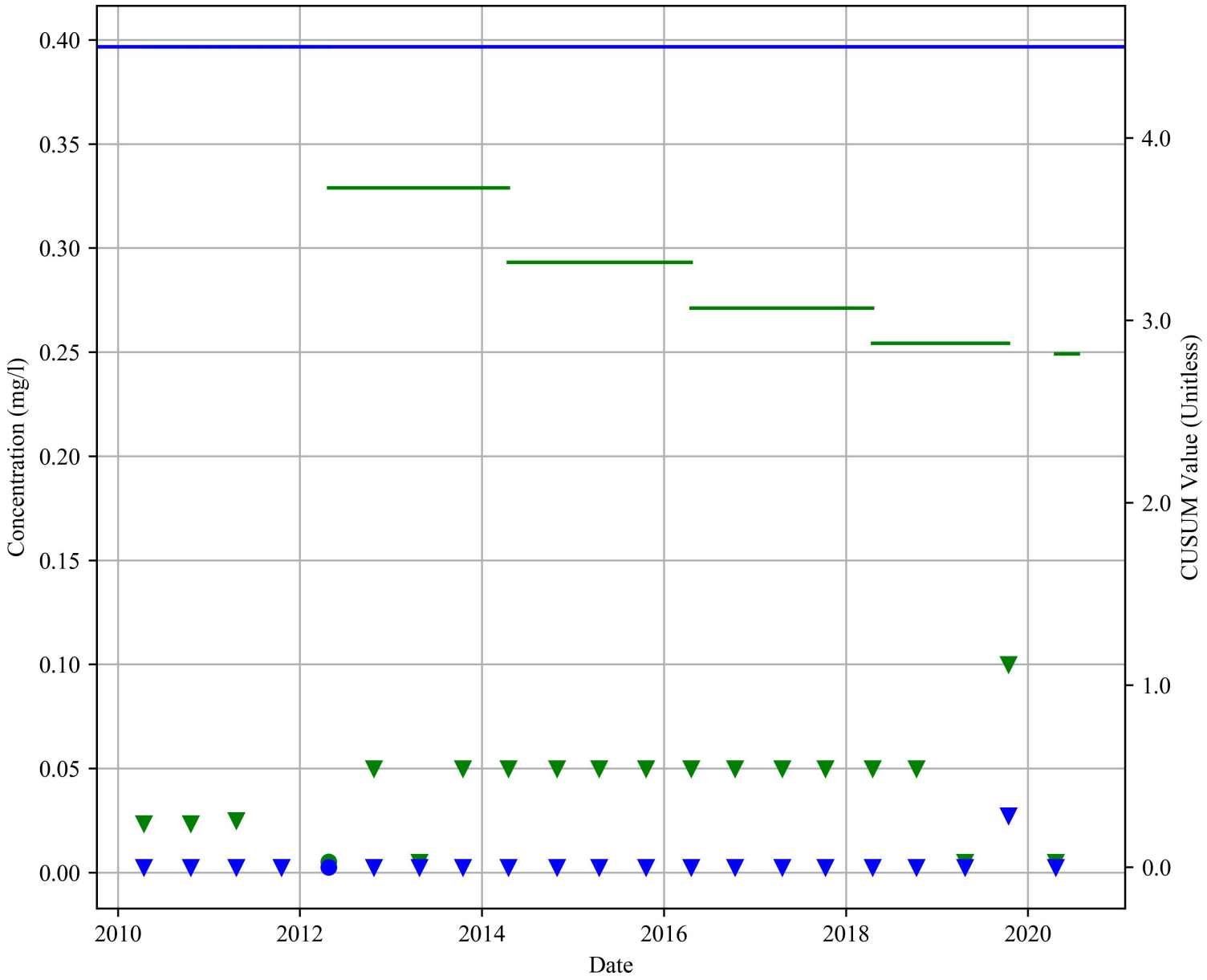
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-154:
Control Chart
MW 15A4
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

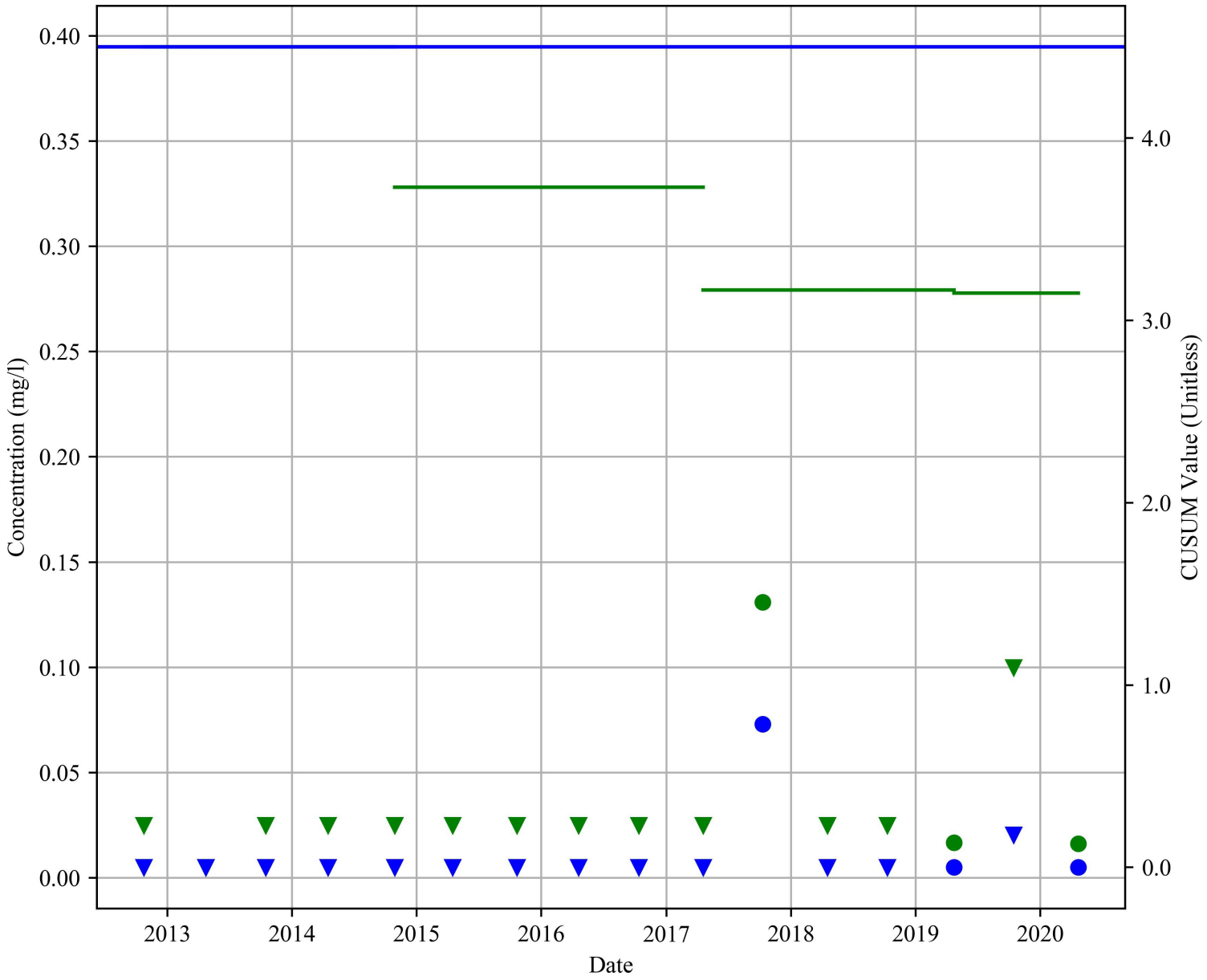
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-155:
Control Chart
MW 15A4
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

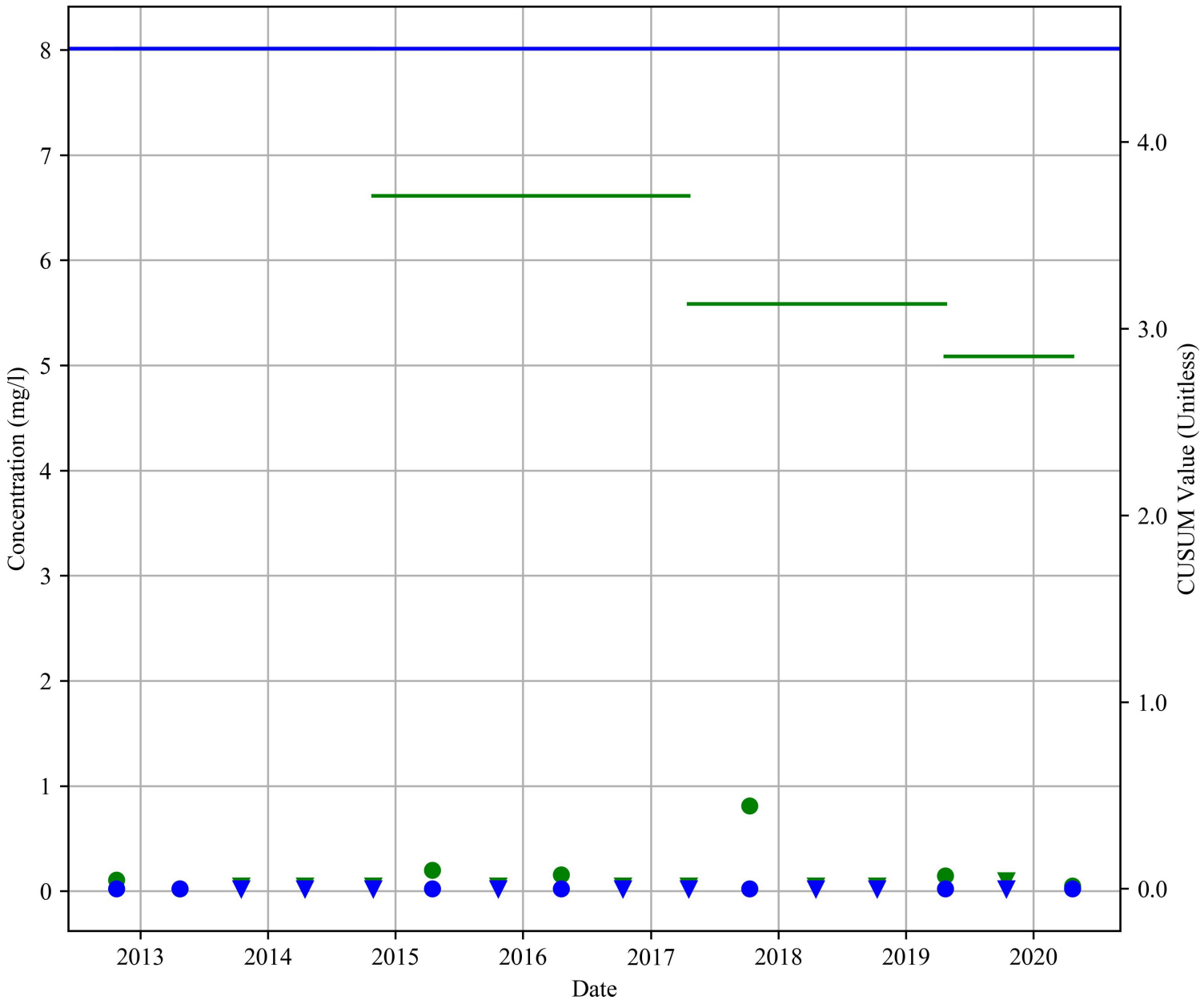
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-156:
Control Chart
MW 15A5
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

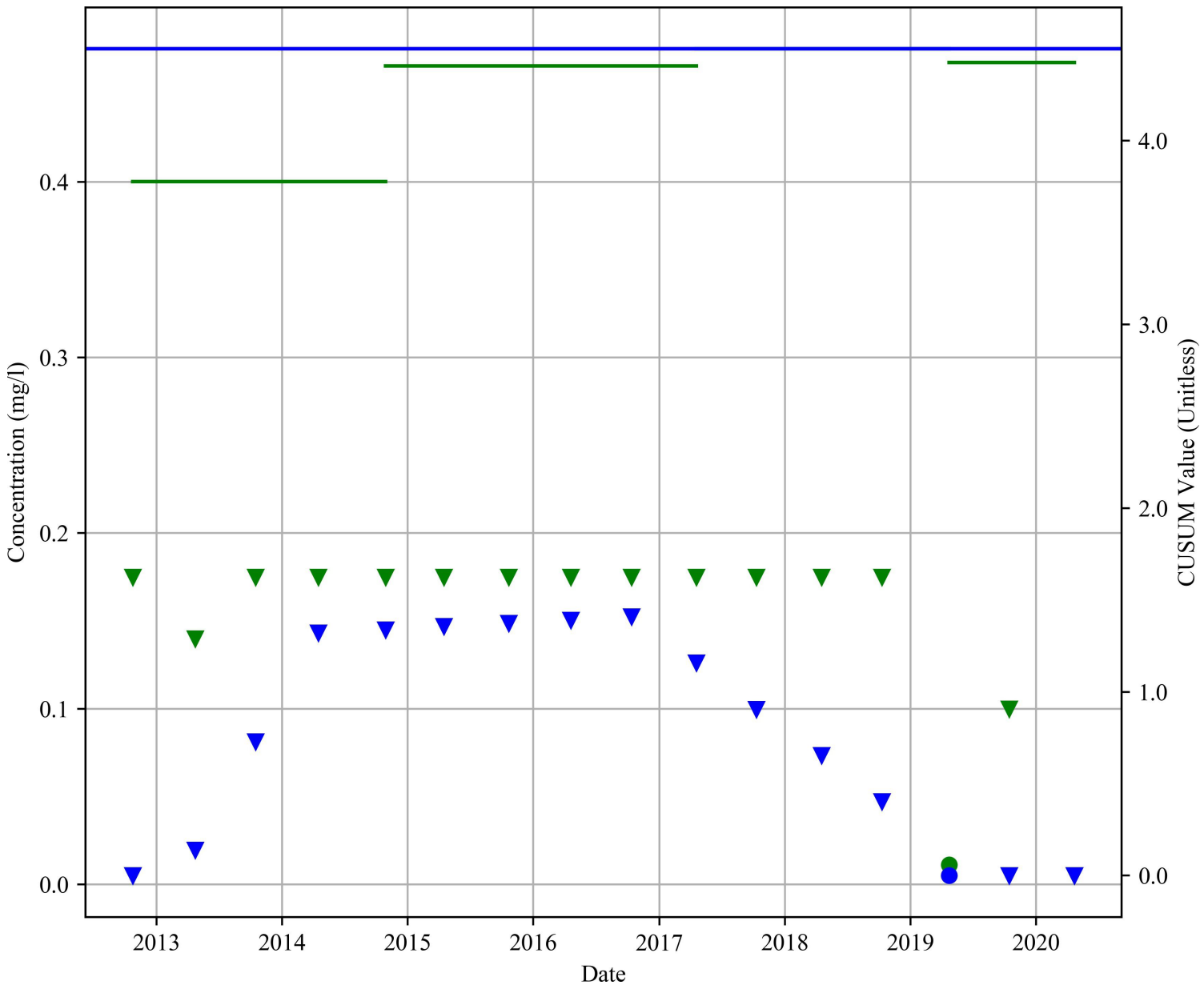
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-157:
Control Chart
MW 15A5
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

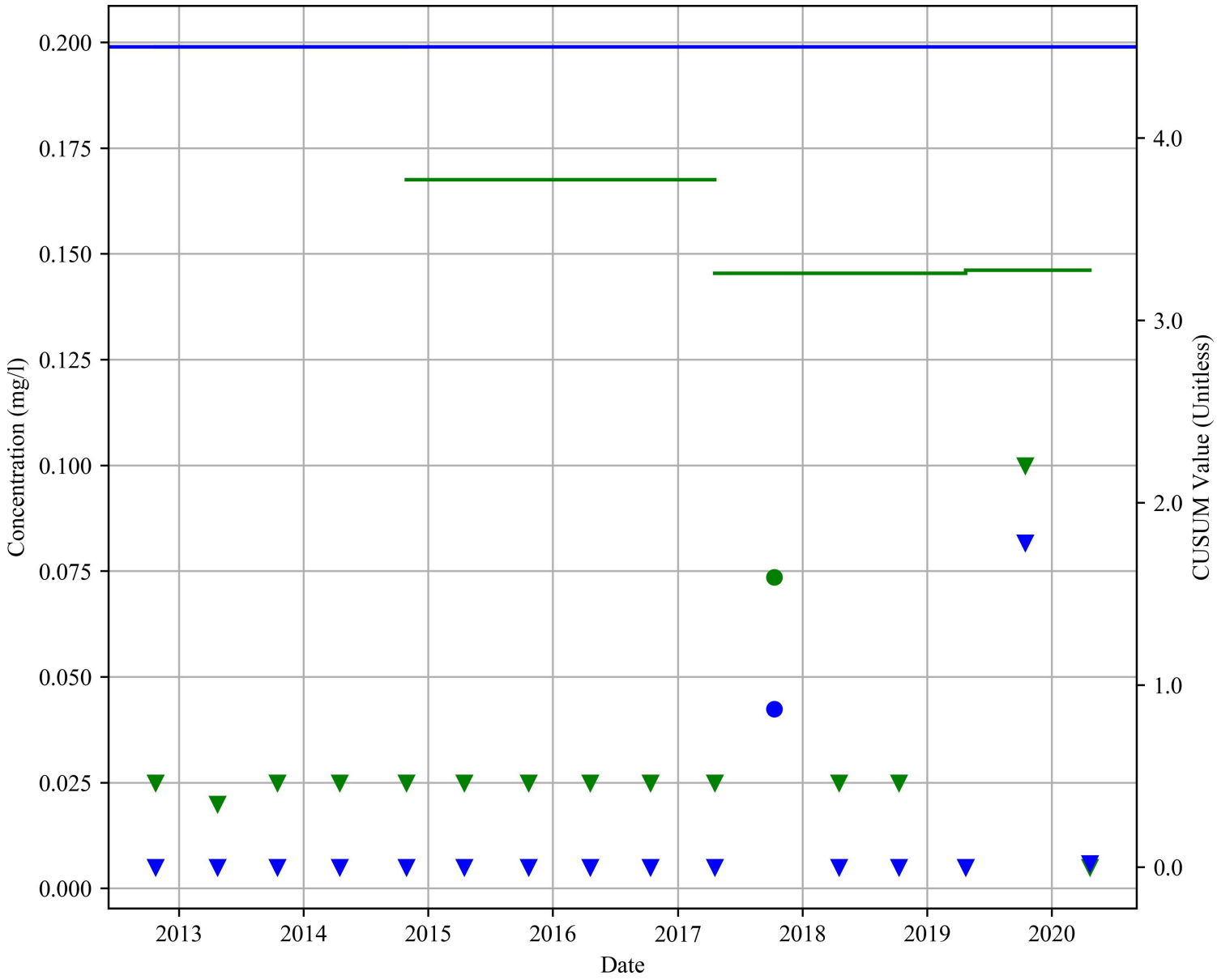
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-158:
Control Chart
MW 15A5
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

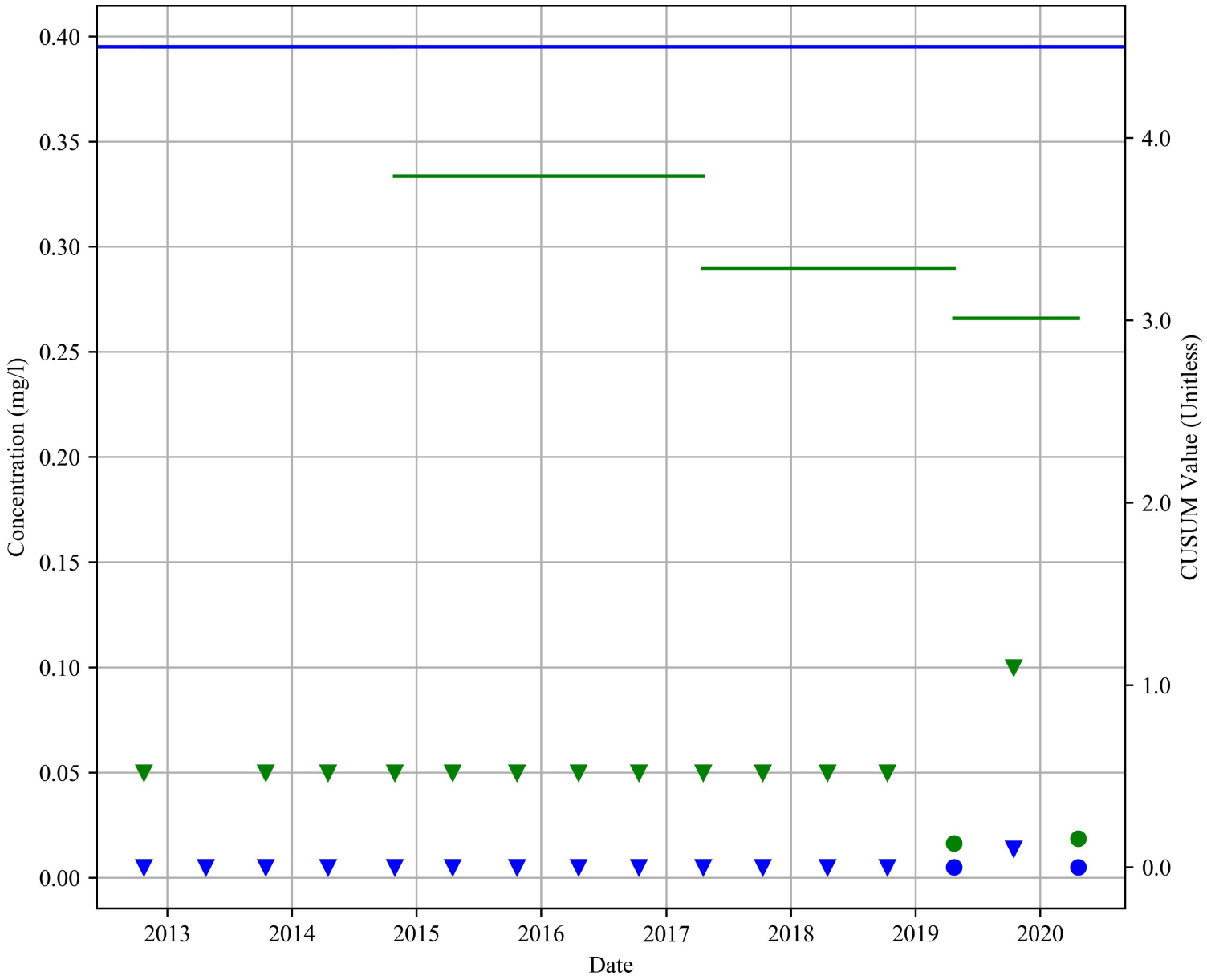
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-159:
Control Chart
MW 15A5
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

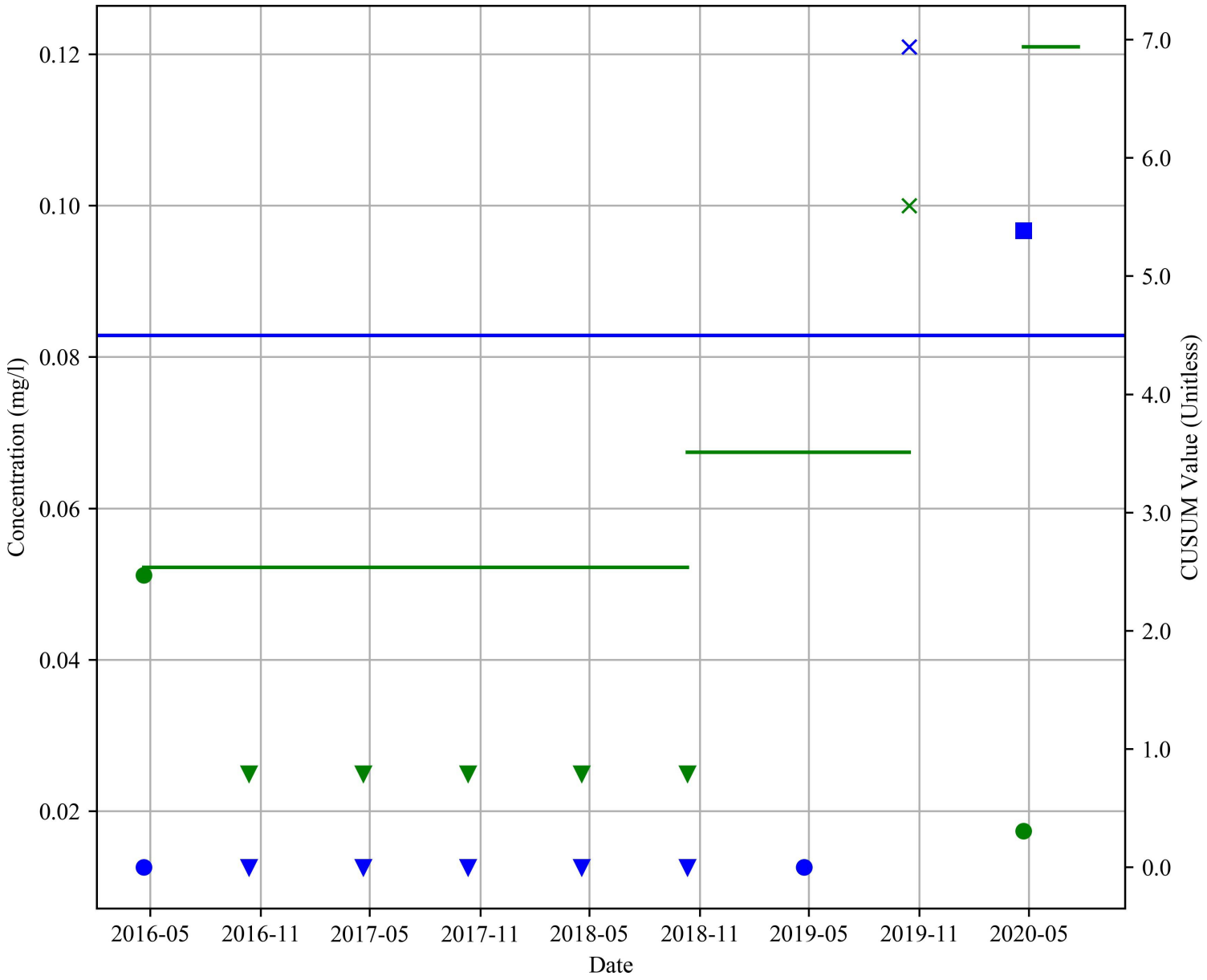
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-160:
Control Chart
MW 15A5
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

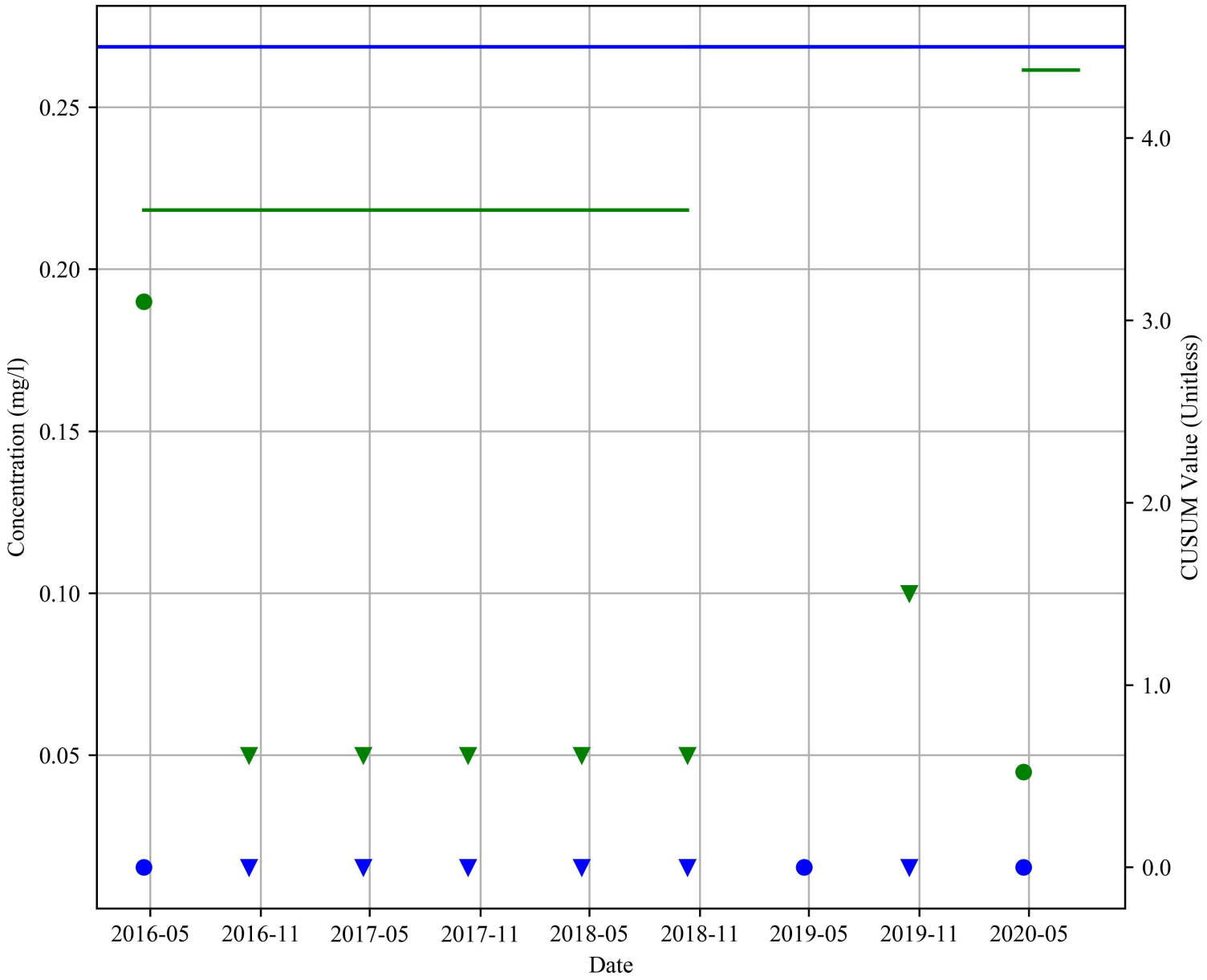
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-161:
Control Chart
MW 15A6
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

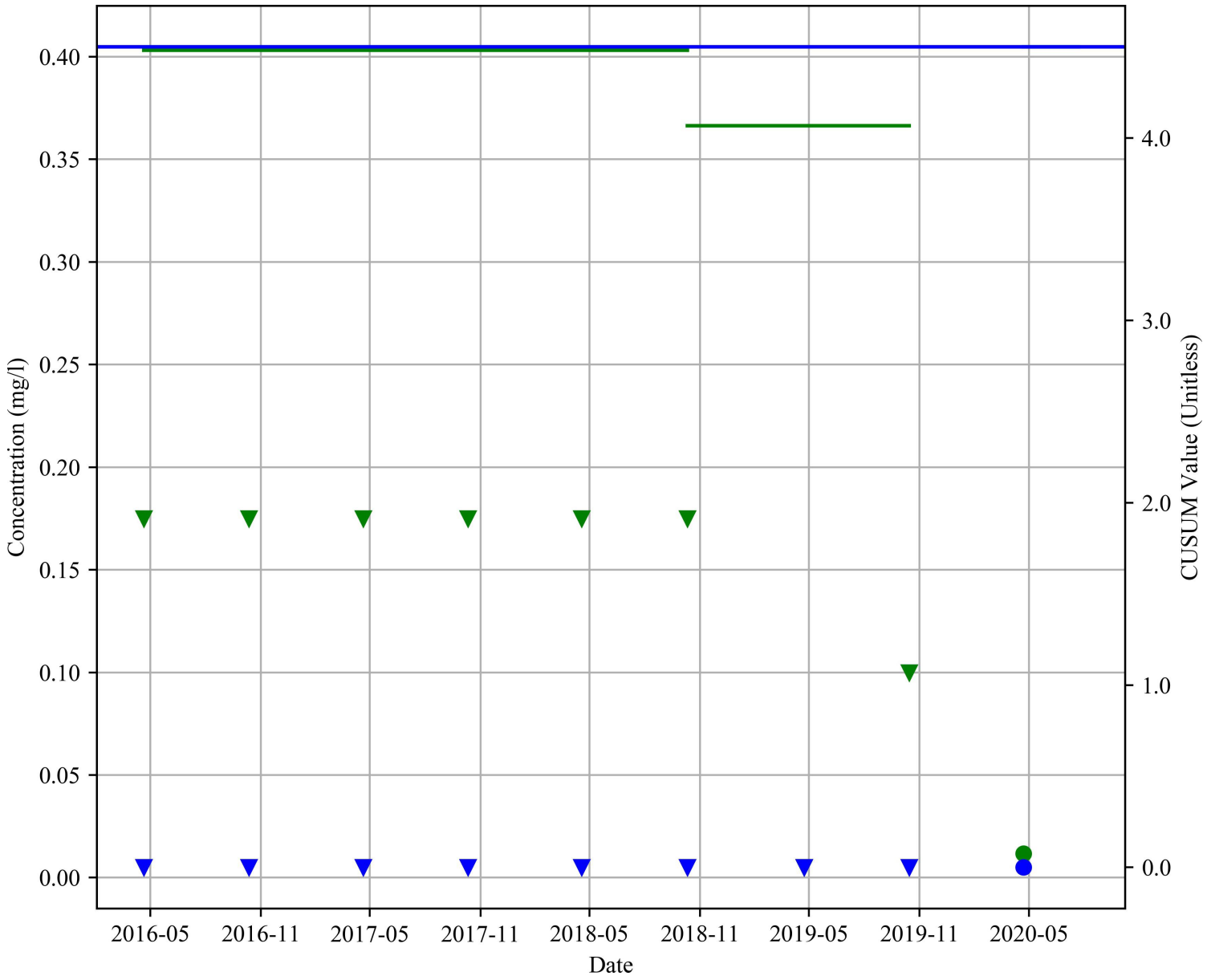
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-162:
Control Chart
MW 15A6
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

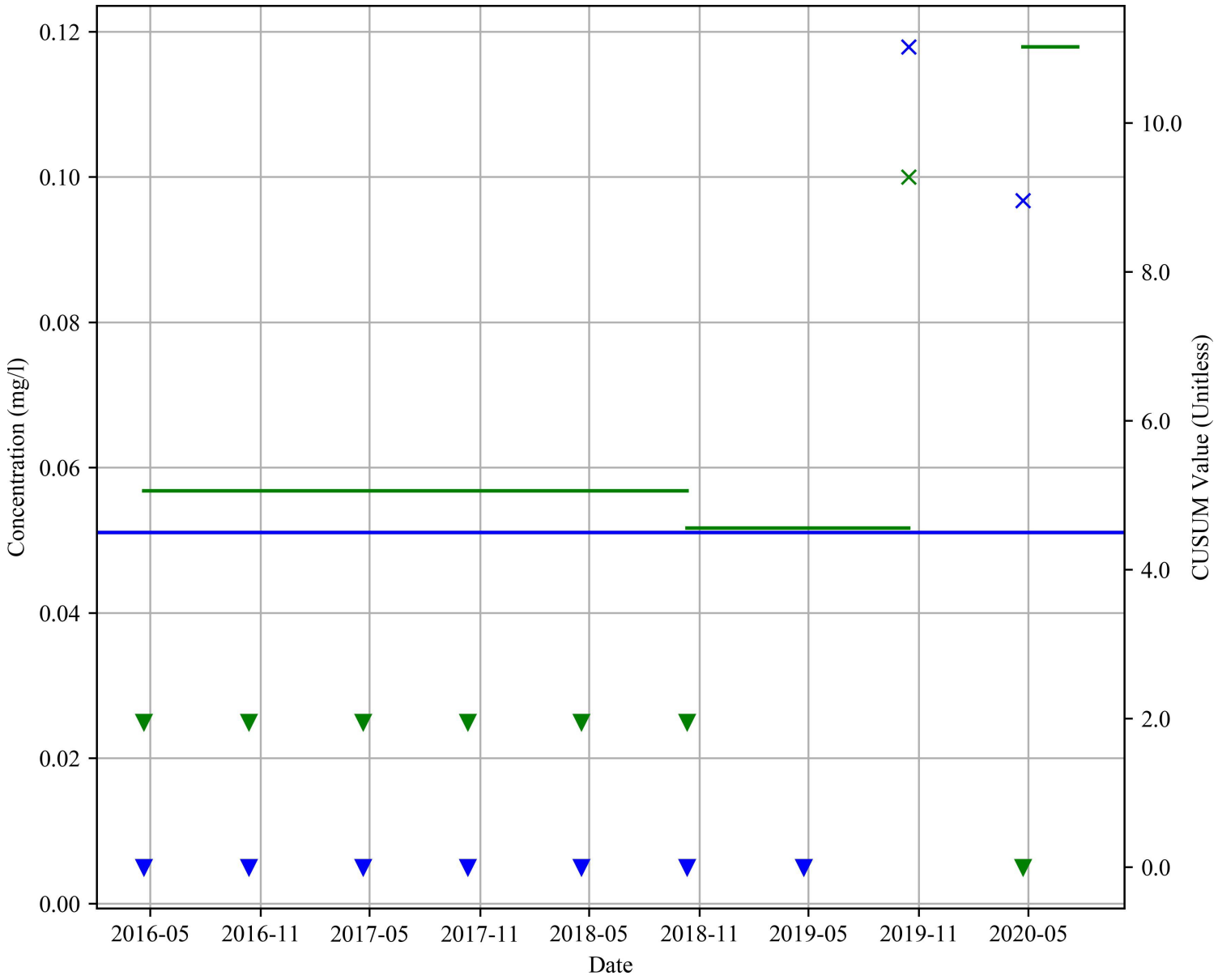
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-163:
Control Chart
MW 15A6
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

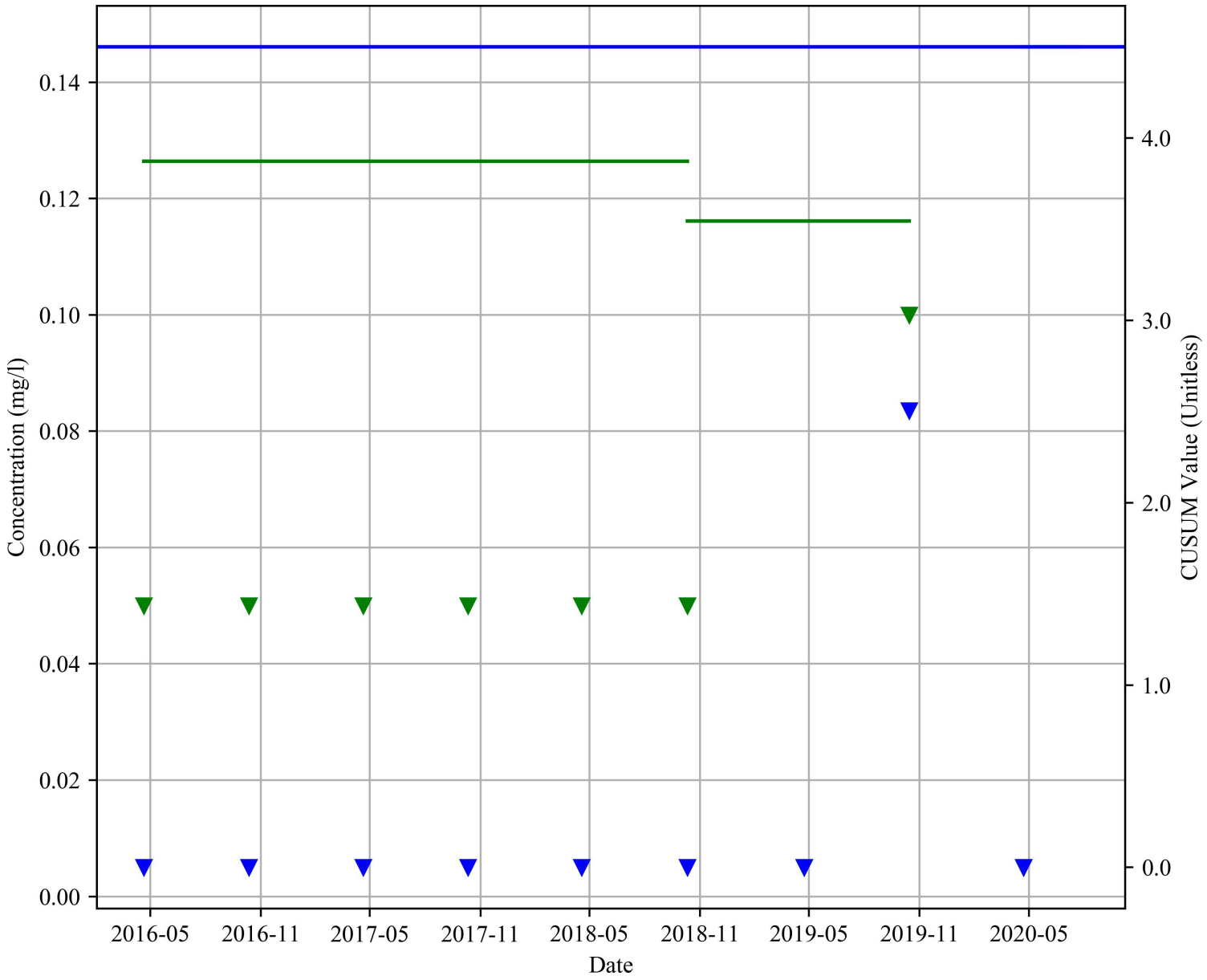
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-164:
Control Chart
MW 15A6
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

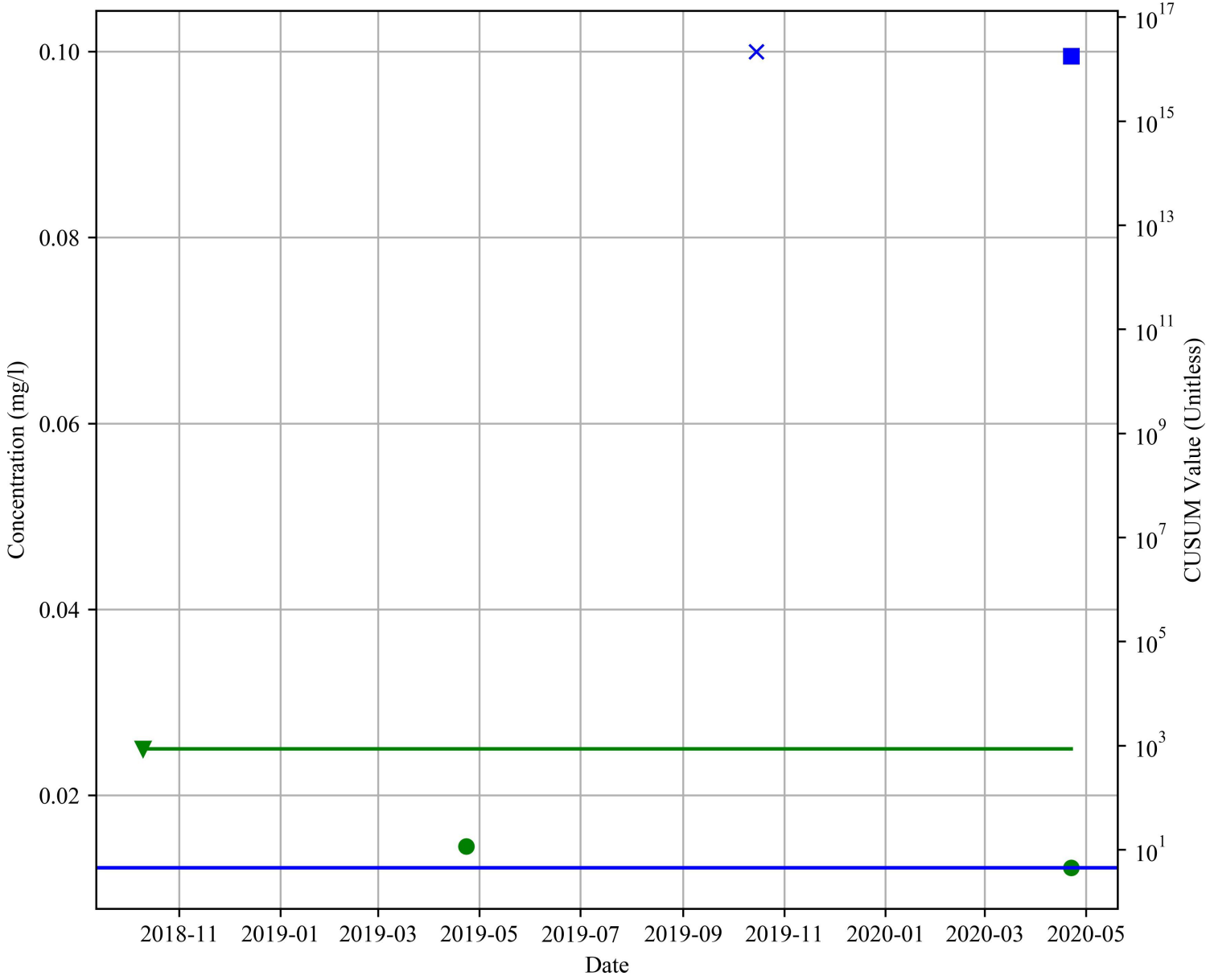
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-165:
Control Chart
MW 15A6
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

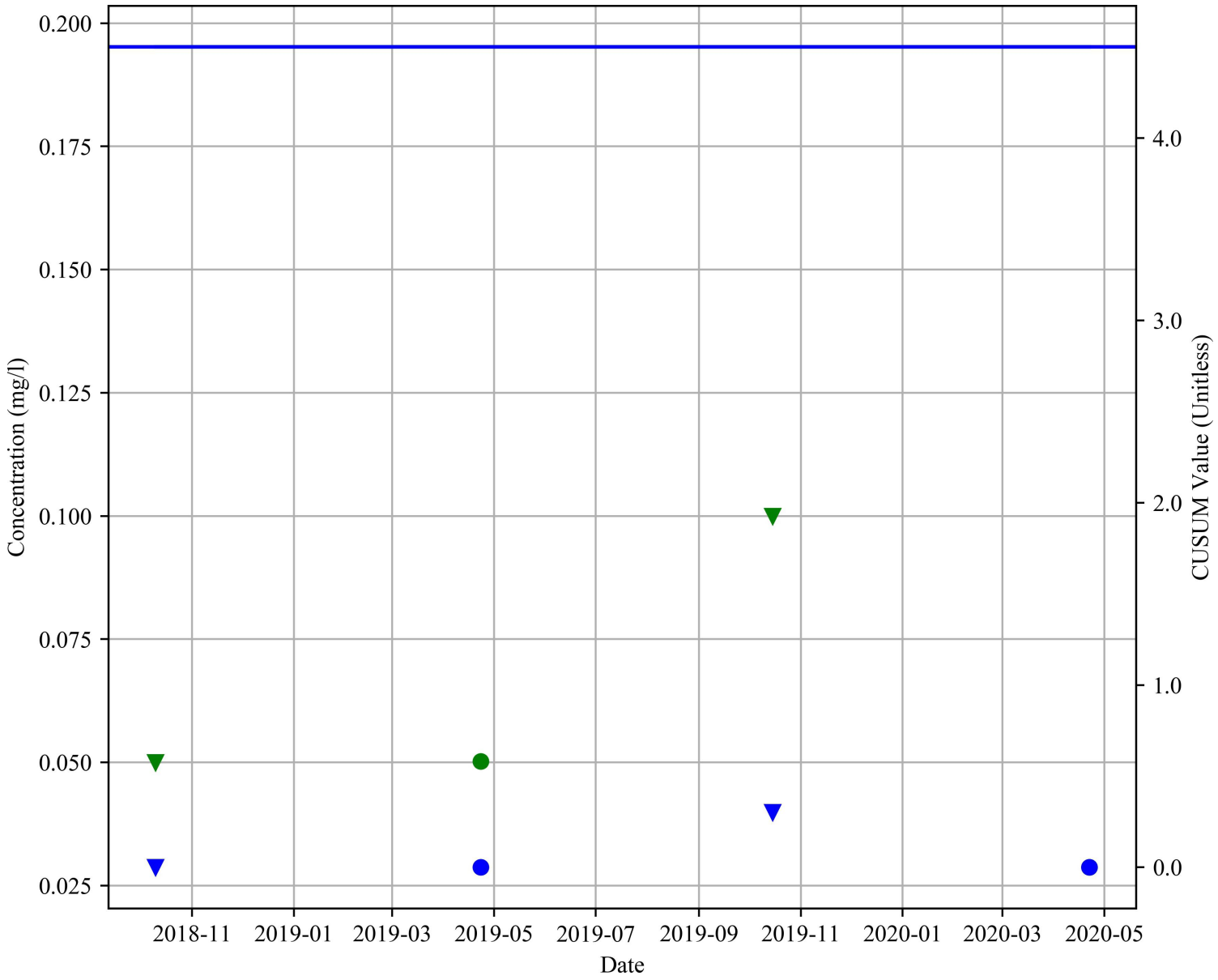
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-166:
Control Chart
MW 15A7
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

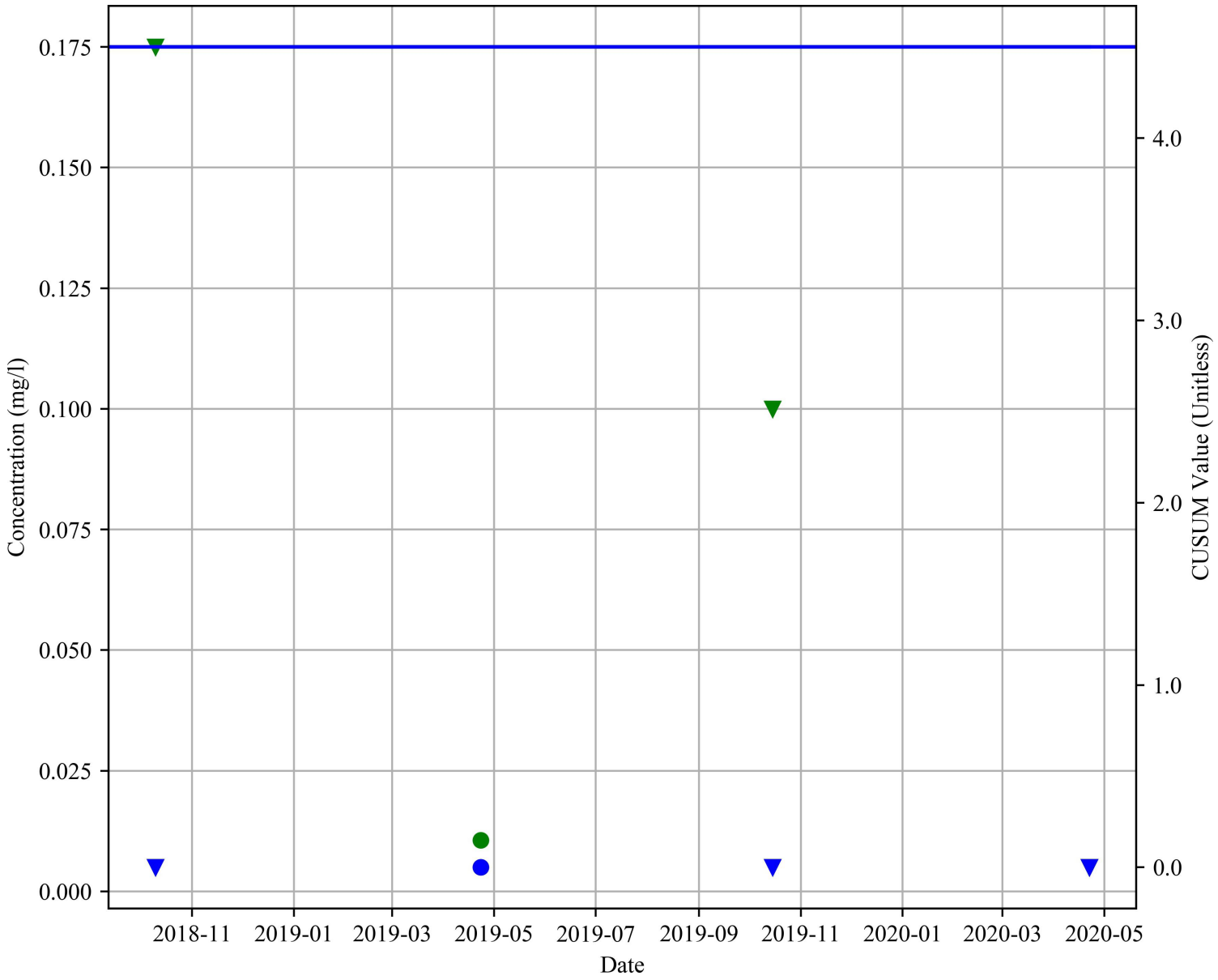
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-167:
Control Chart
MW 15A7
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

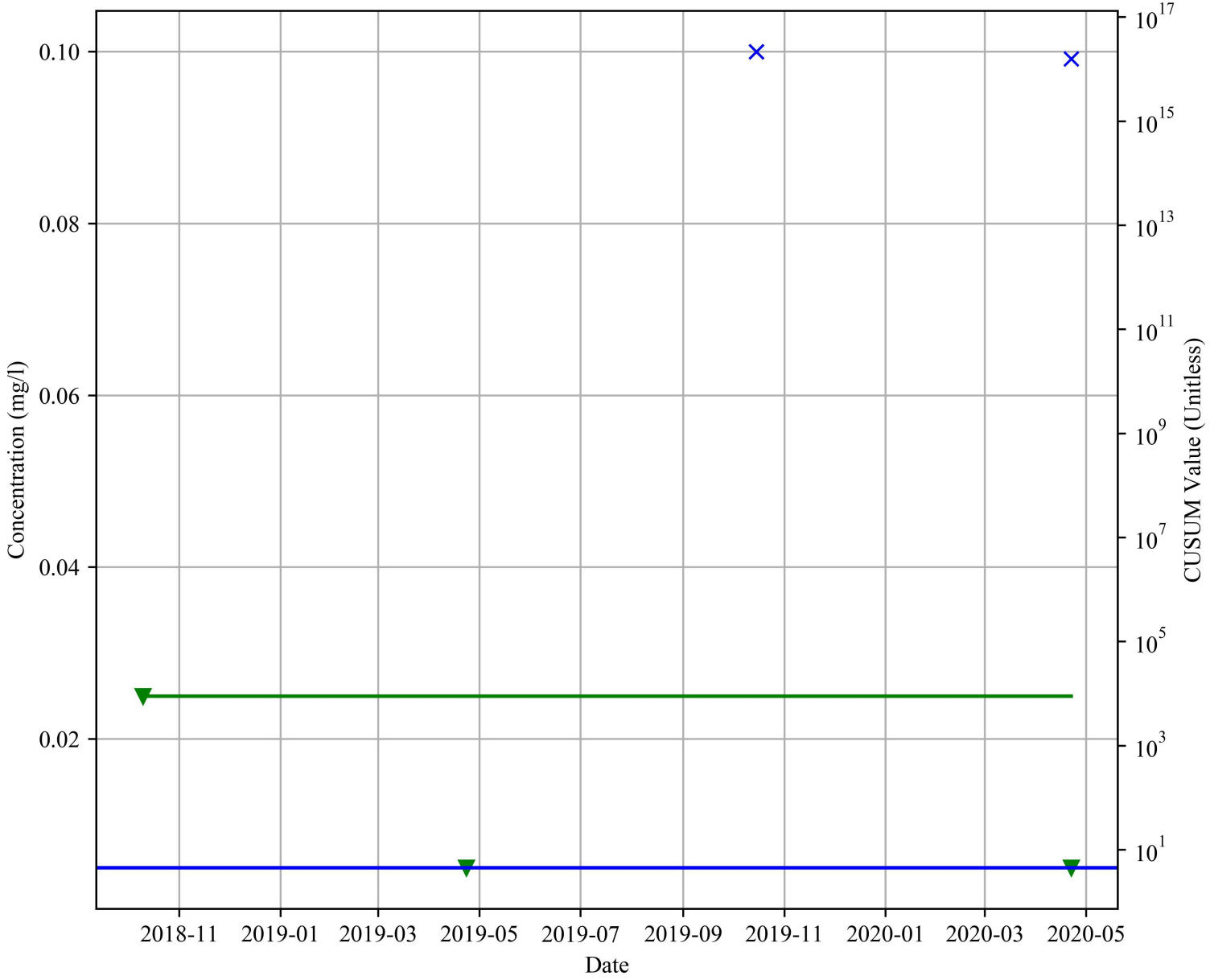
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-168:
Control Chart
MW 15A7
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

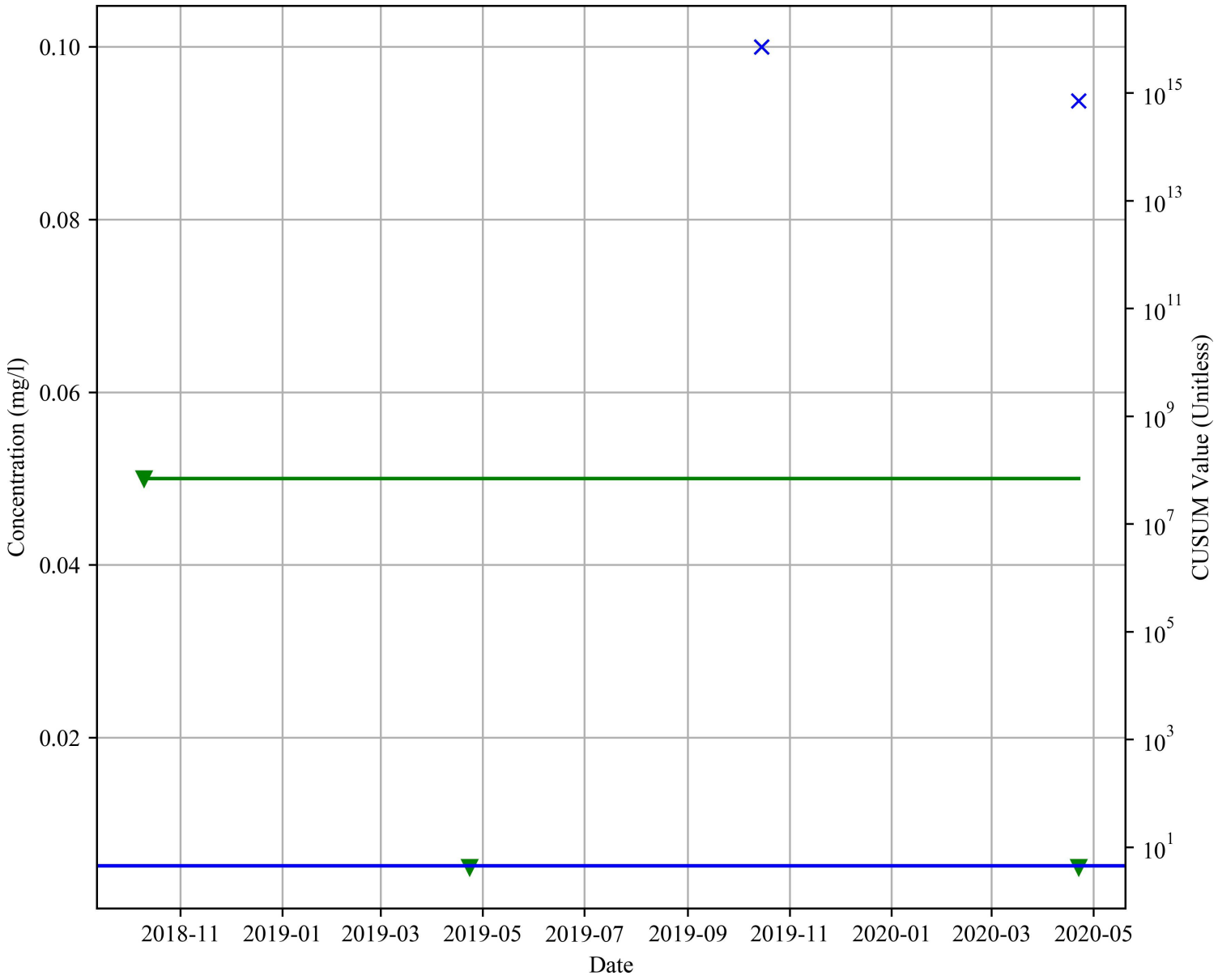
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-169:
Control Chart
MW 15A7
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

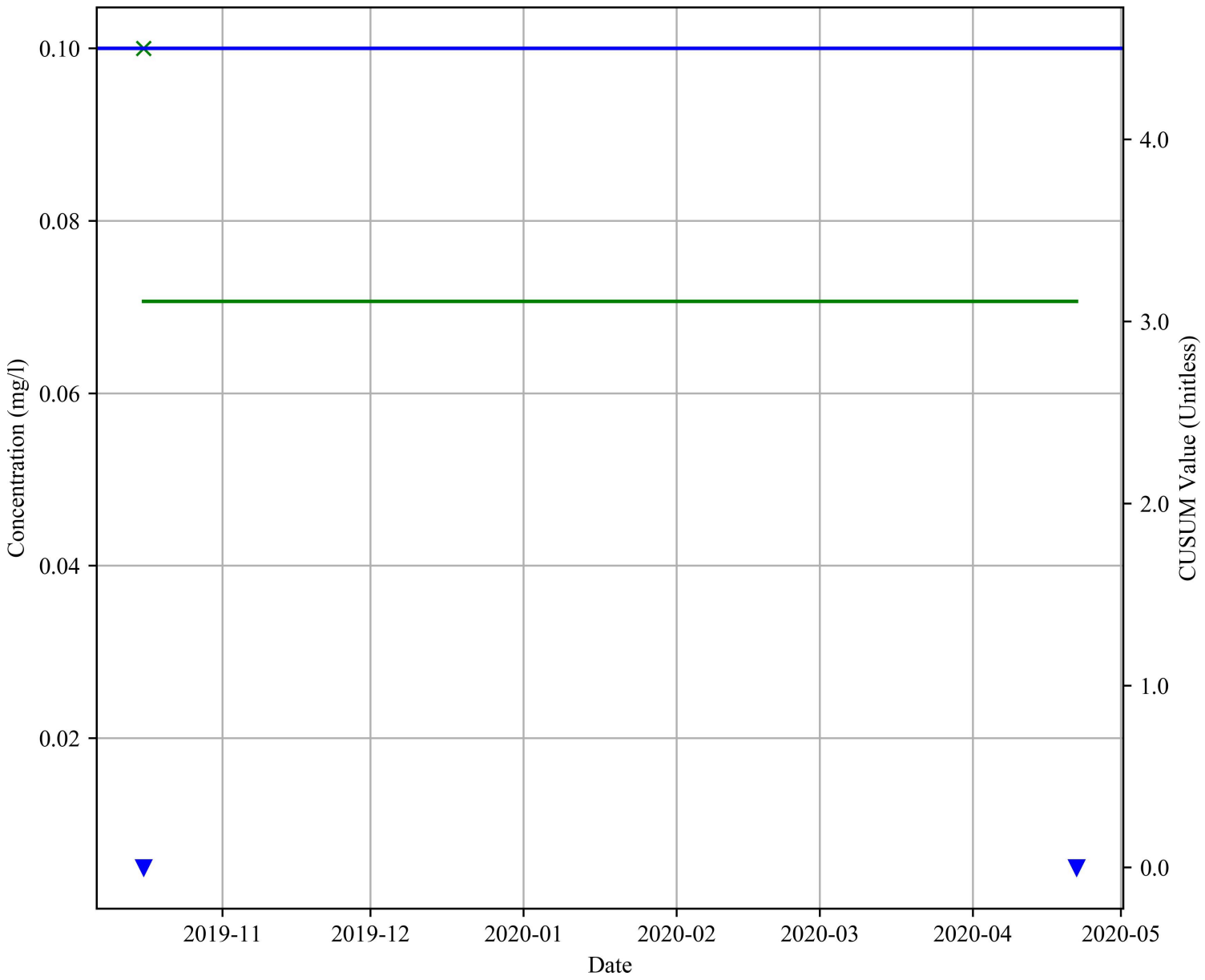
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-170:
Control Chart
MW 15A7
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

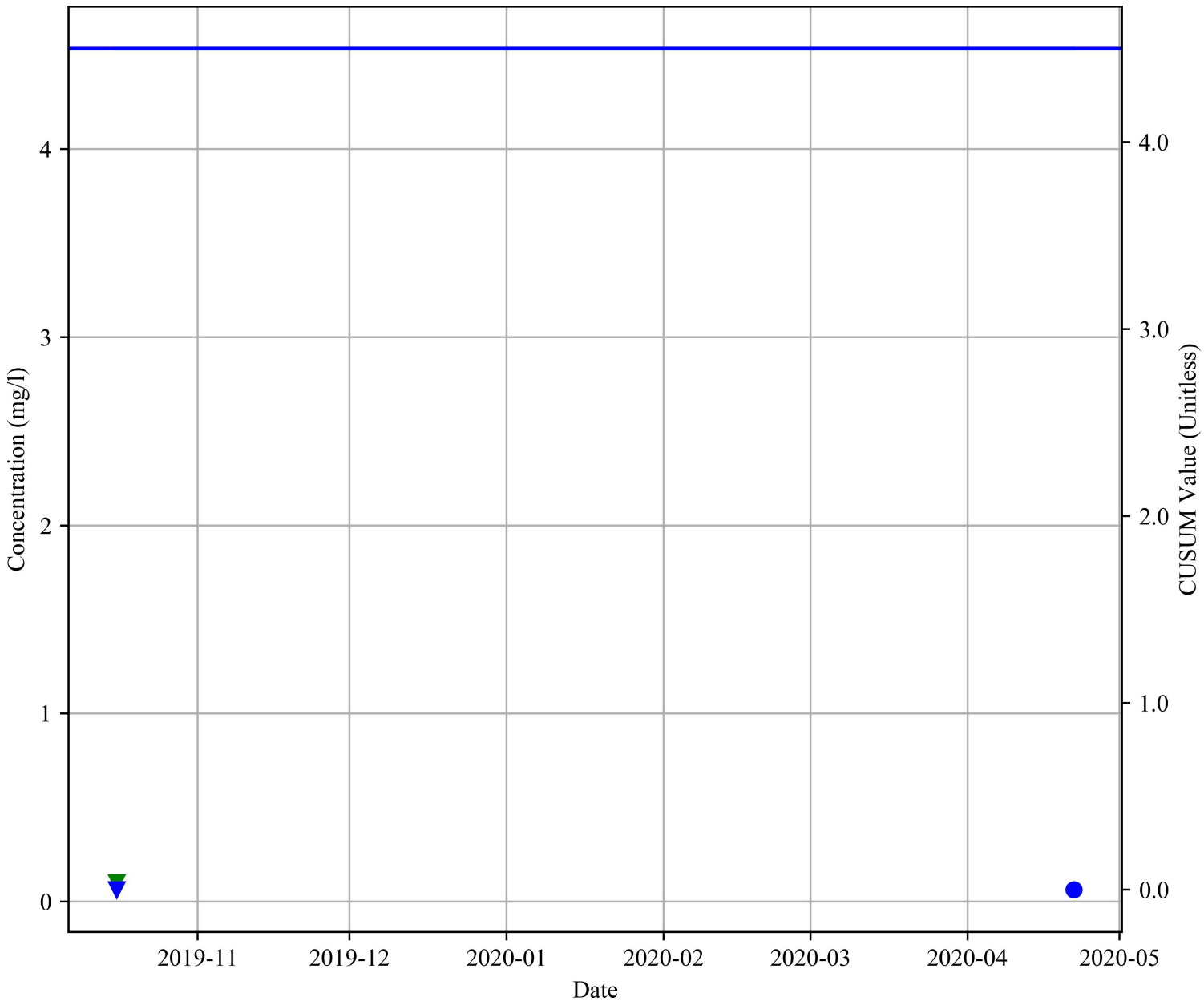
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-171:
Control Chart
MW 15A8
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

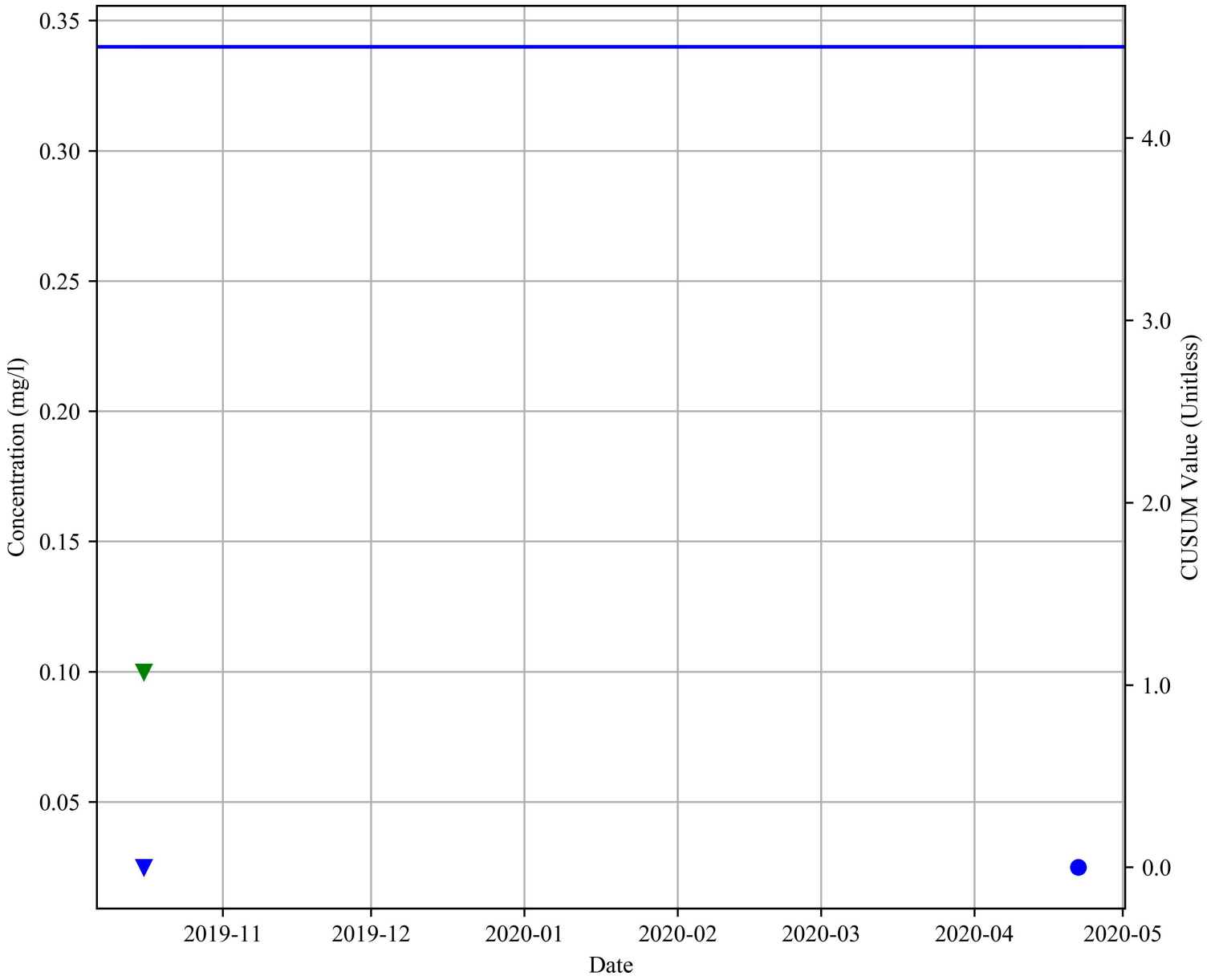
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-172:
Control Chart
MW 15A8
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

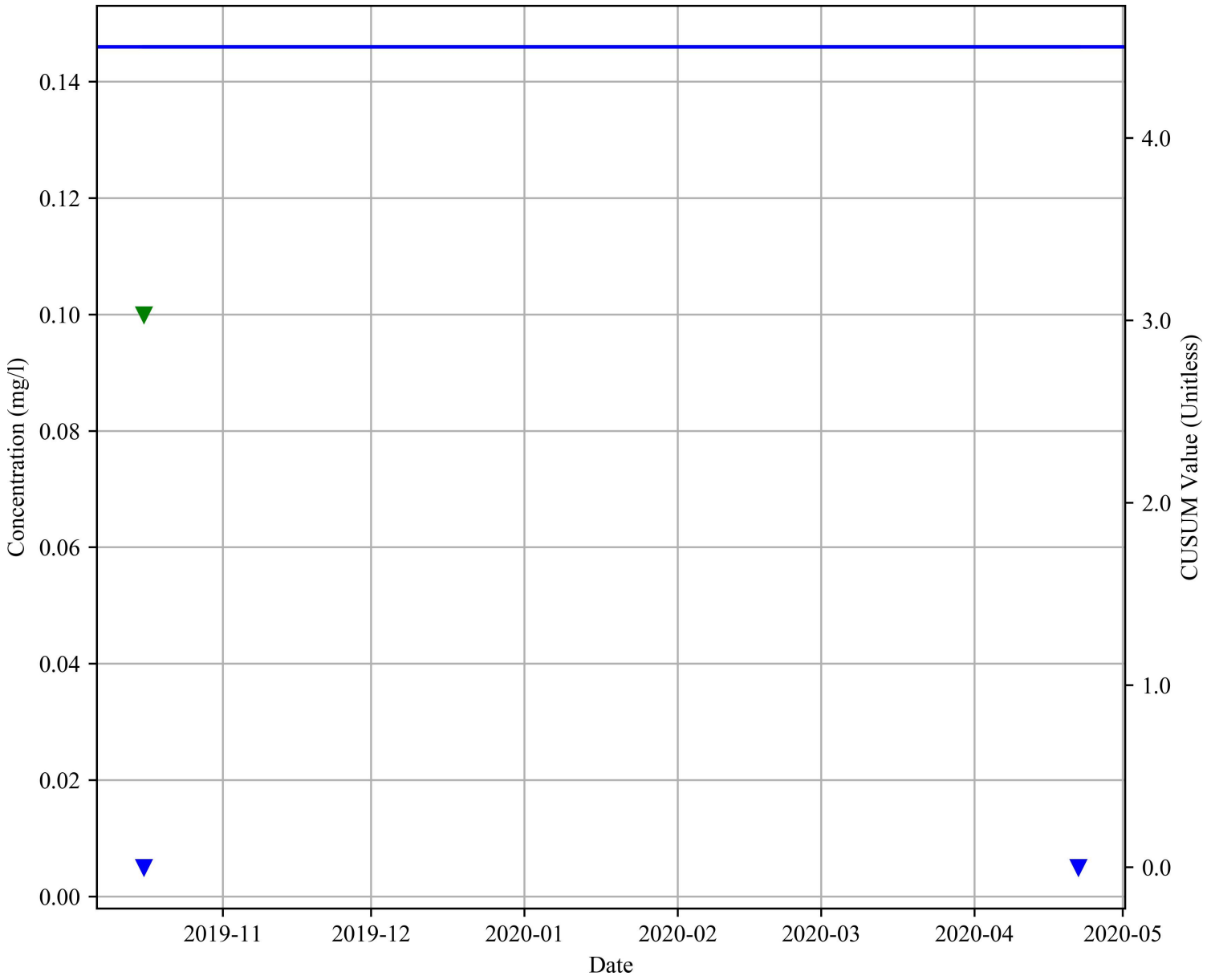
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-173:
Control Chart
MW 15A8
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

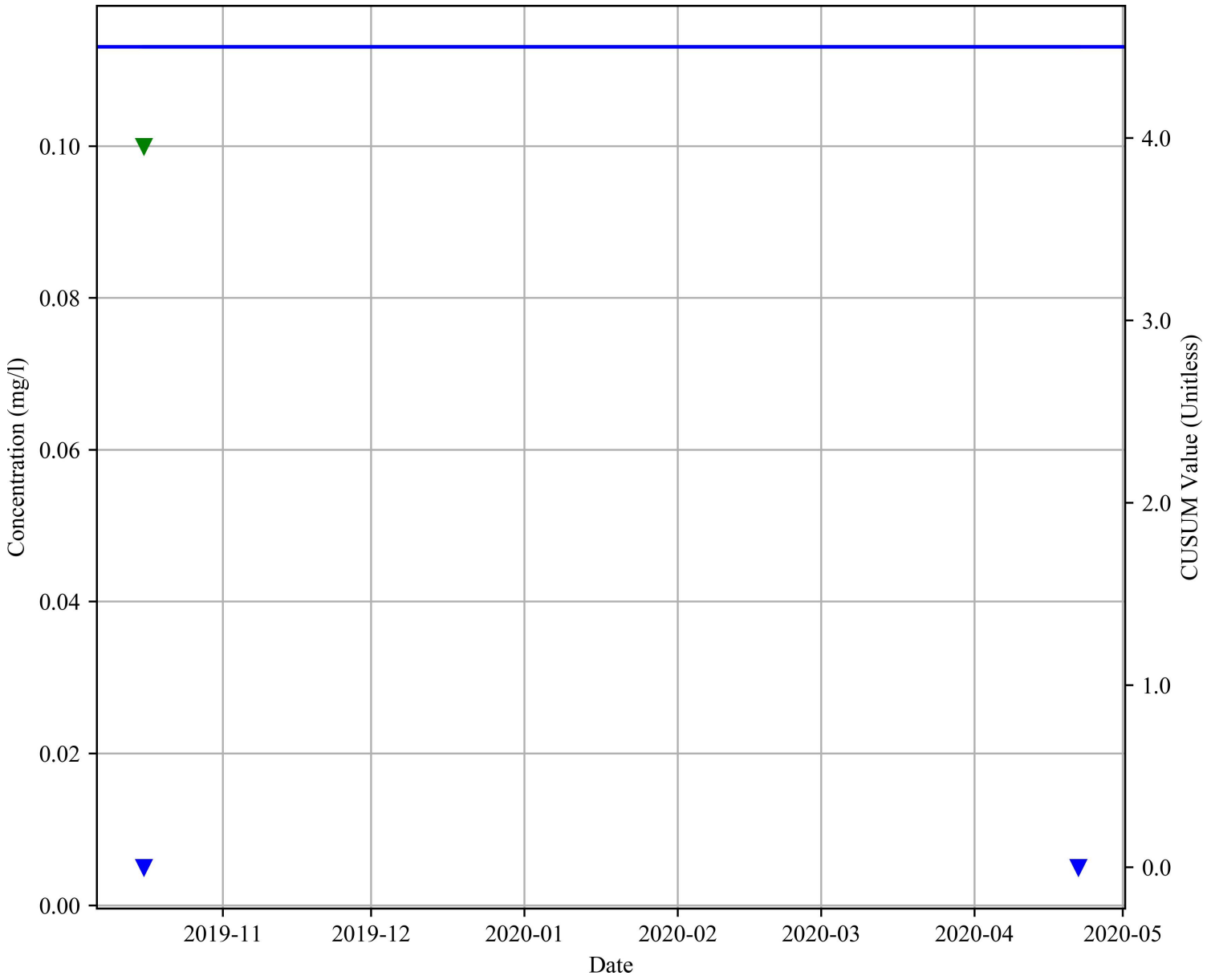
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-174:
Control Chart
MW 15A8
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

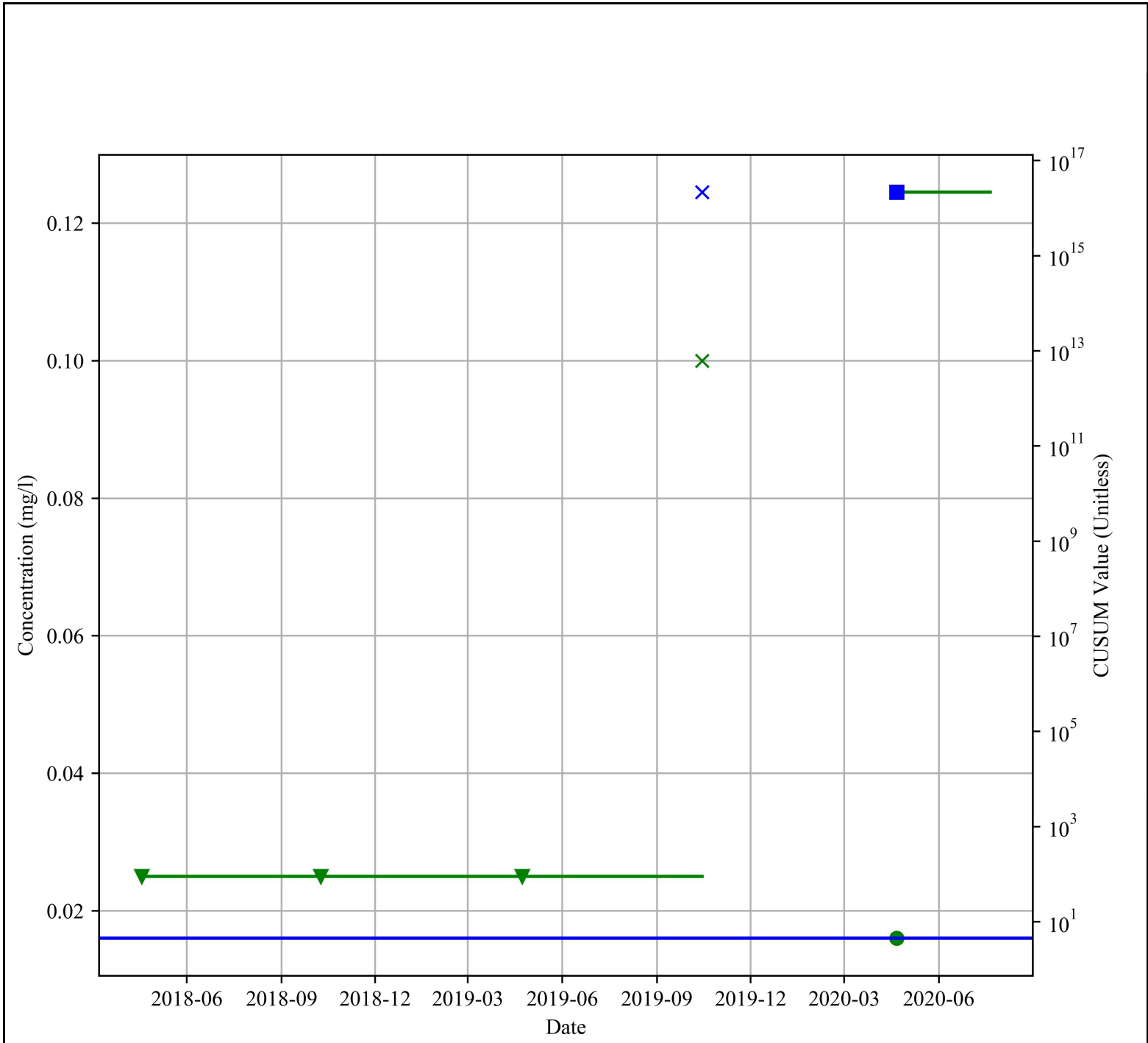
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-175:
Control Chart
MW 15A8
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

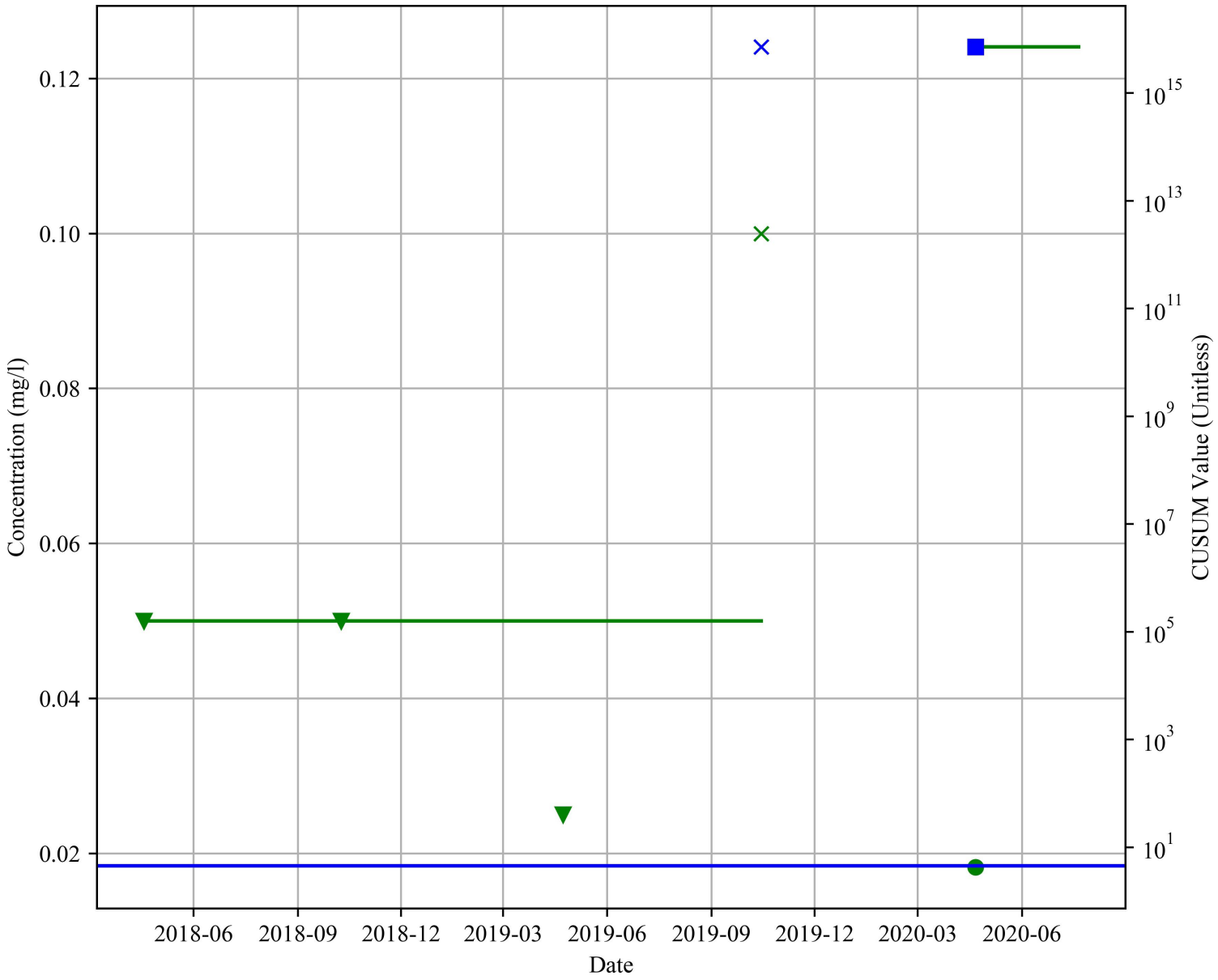
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-176:
Control Chart
MW 15A10
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

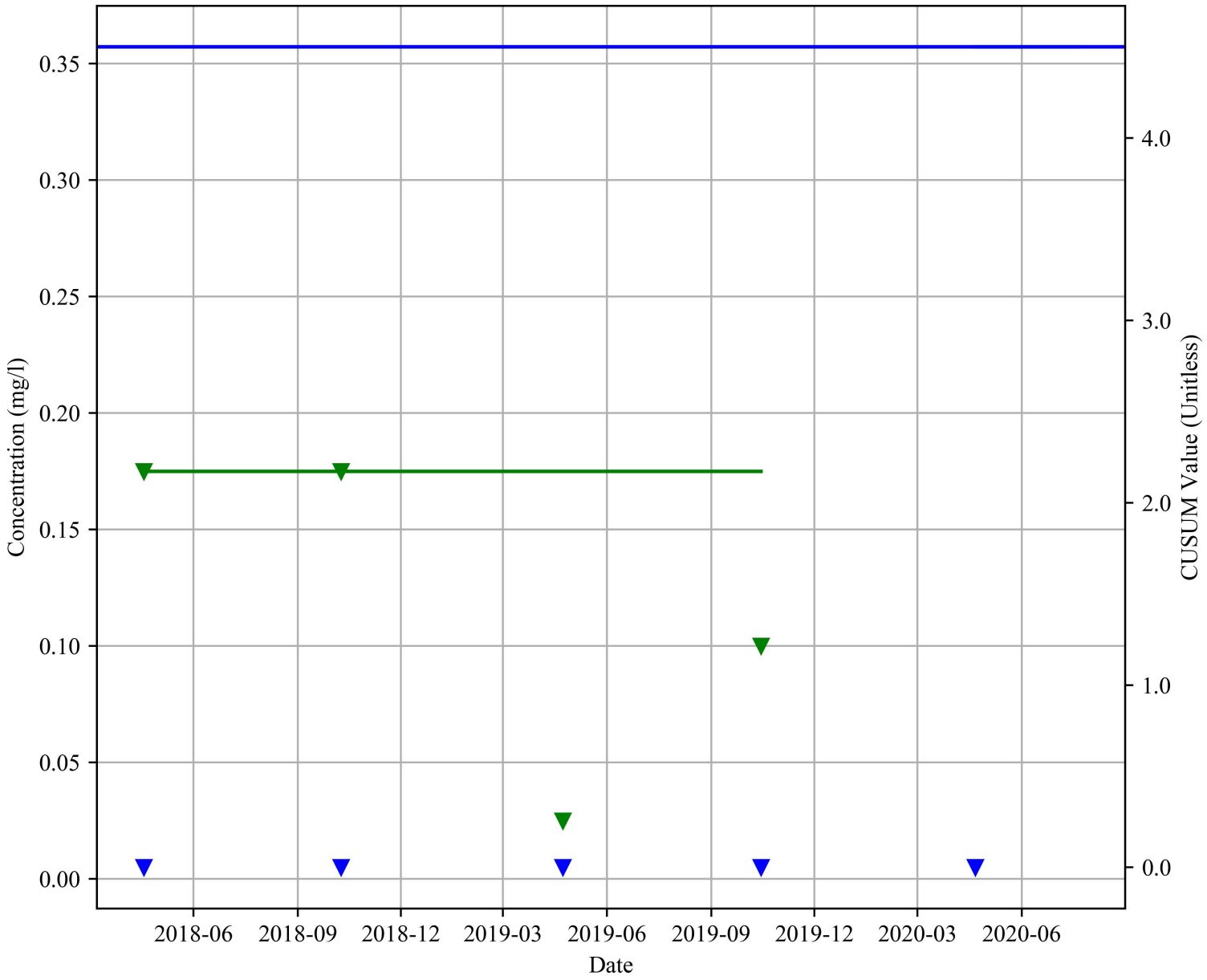
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-177:
Control Chart
MW 15A10
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

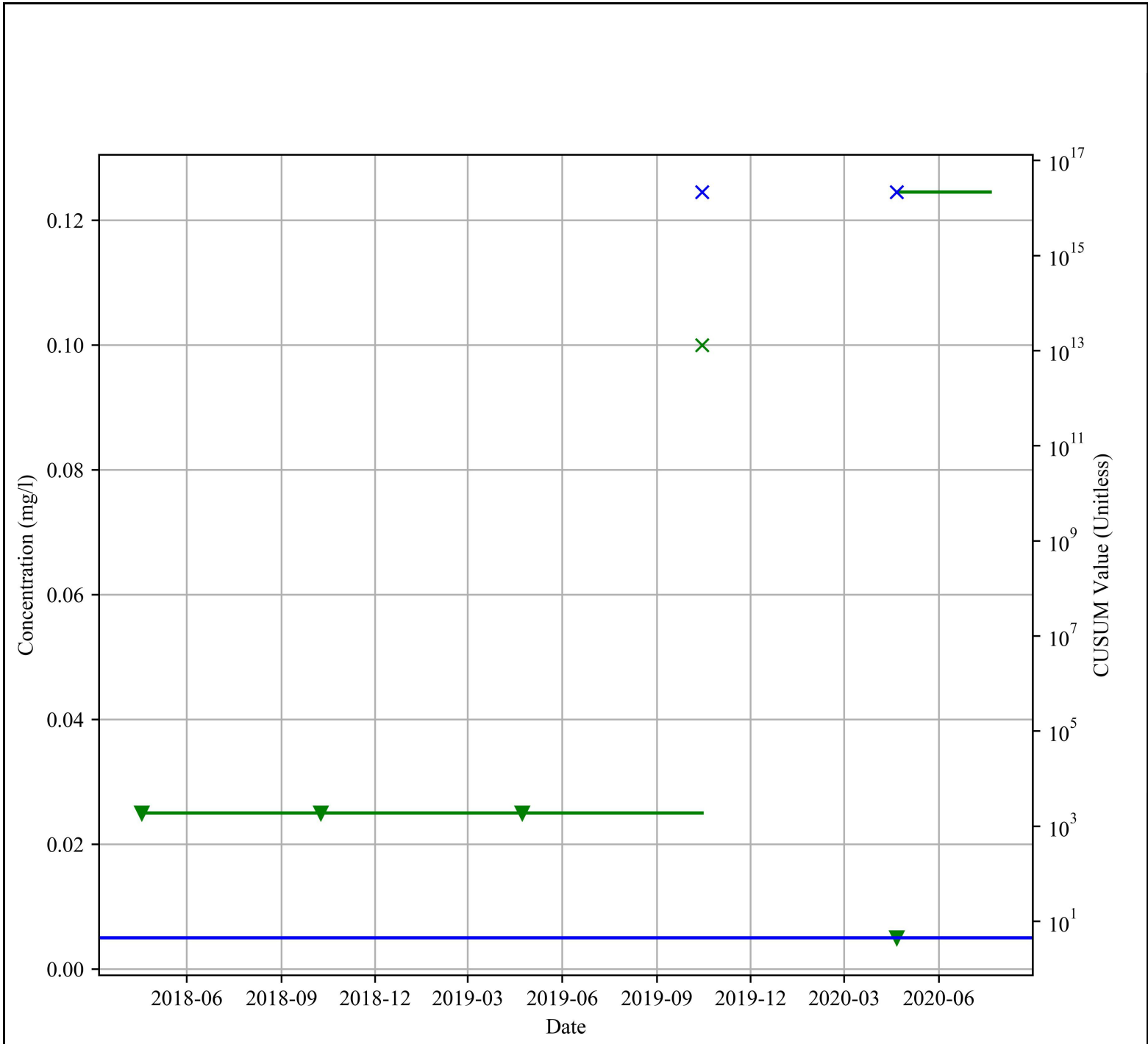
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-178:
Control Chart
MW 15A10
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

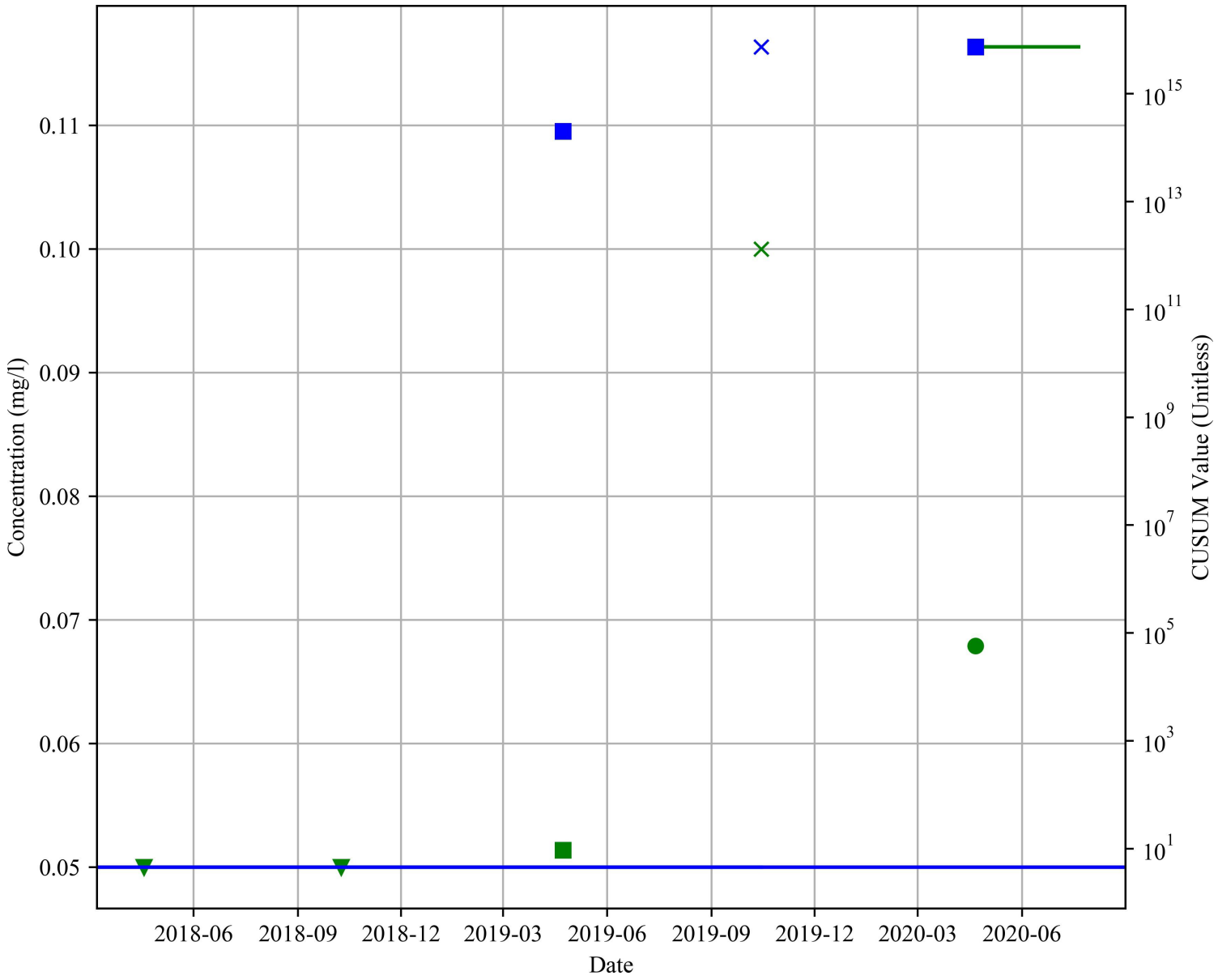
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-179:
Control Chart
MW 15A10
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Fail Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

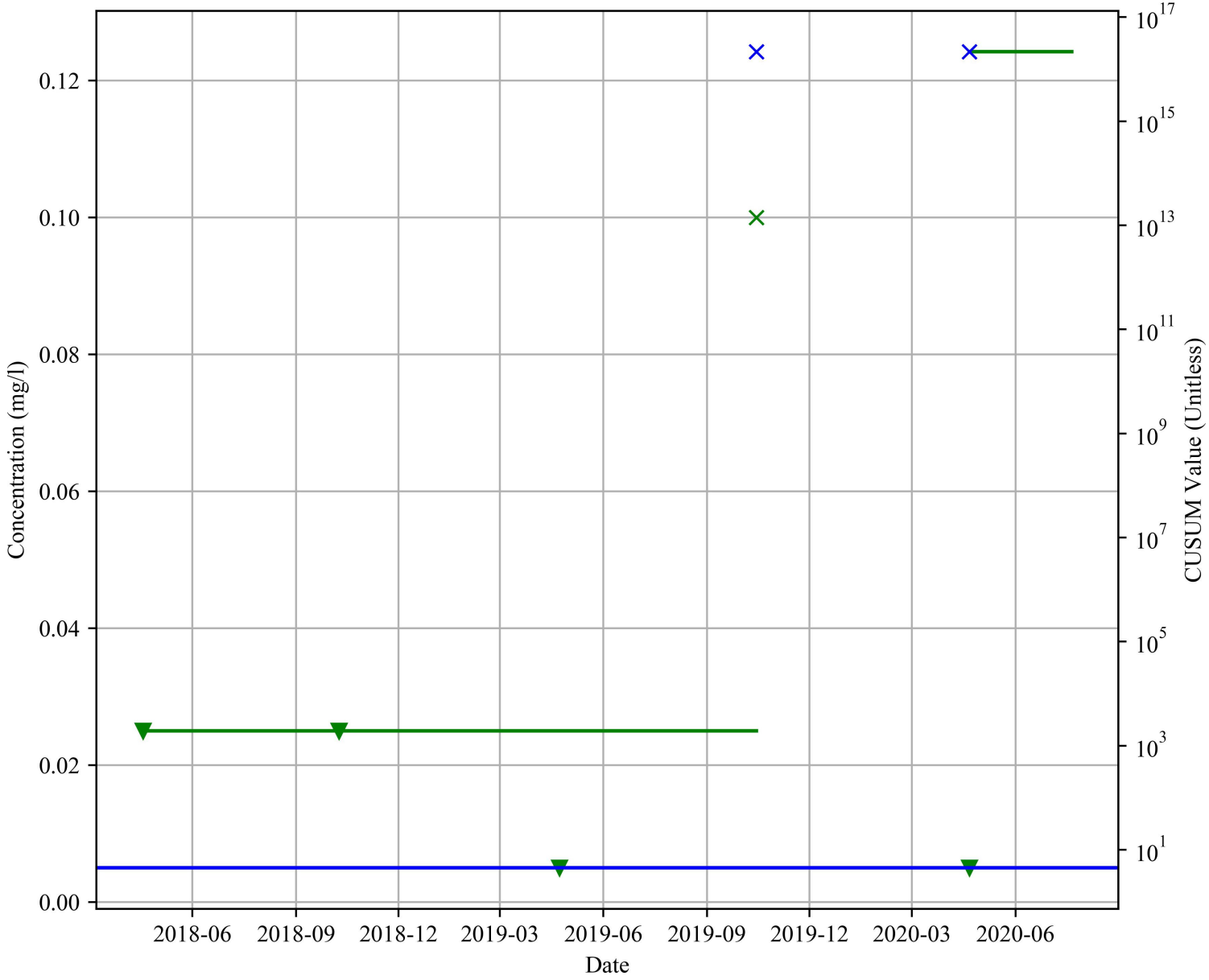
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-180:
Control Chart
MW 15A10
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

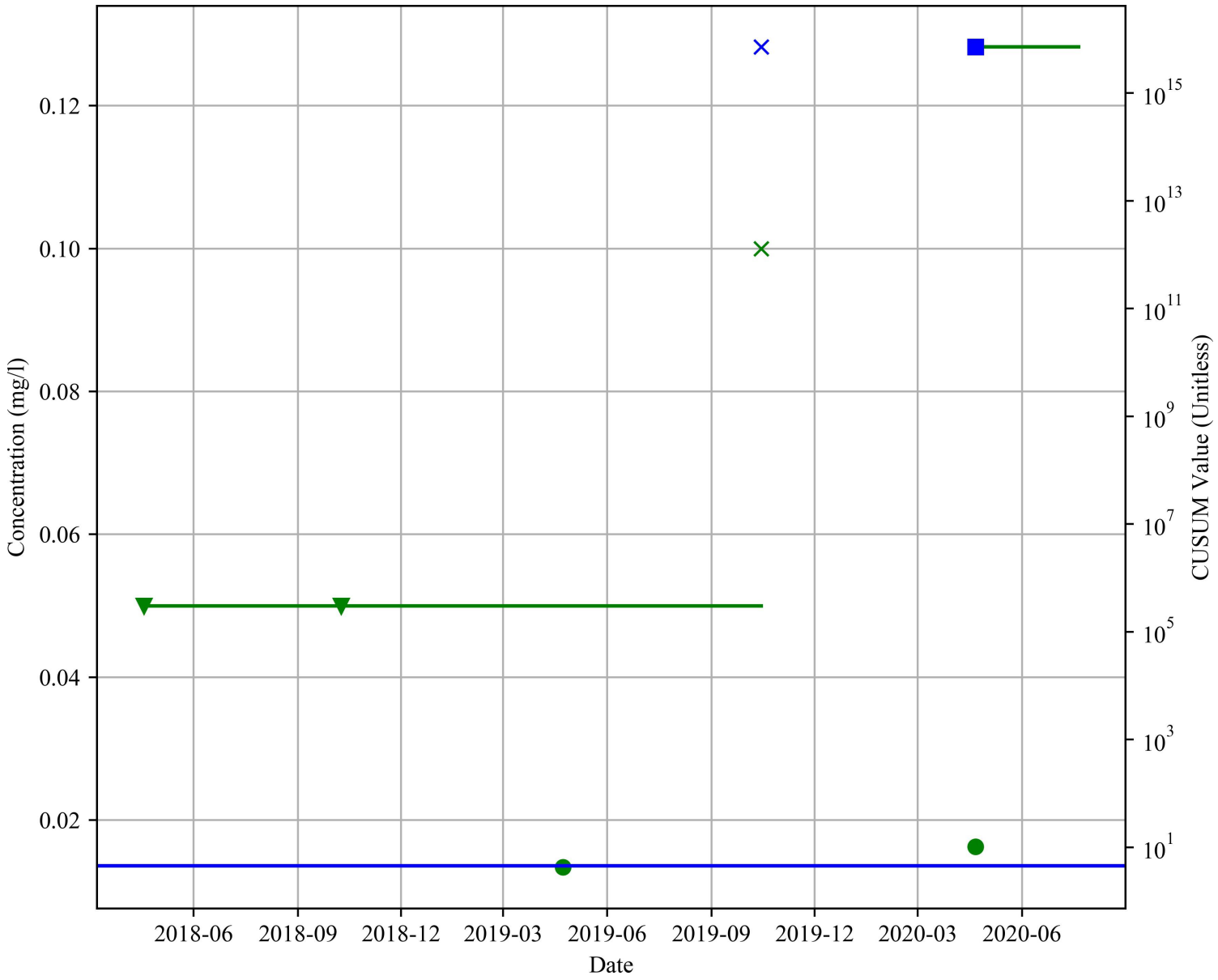
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-181:
Control Chart
MW 15A11
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

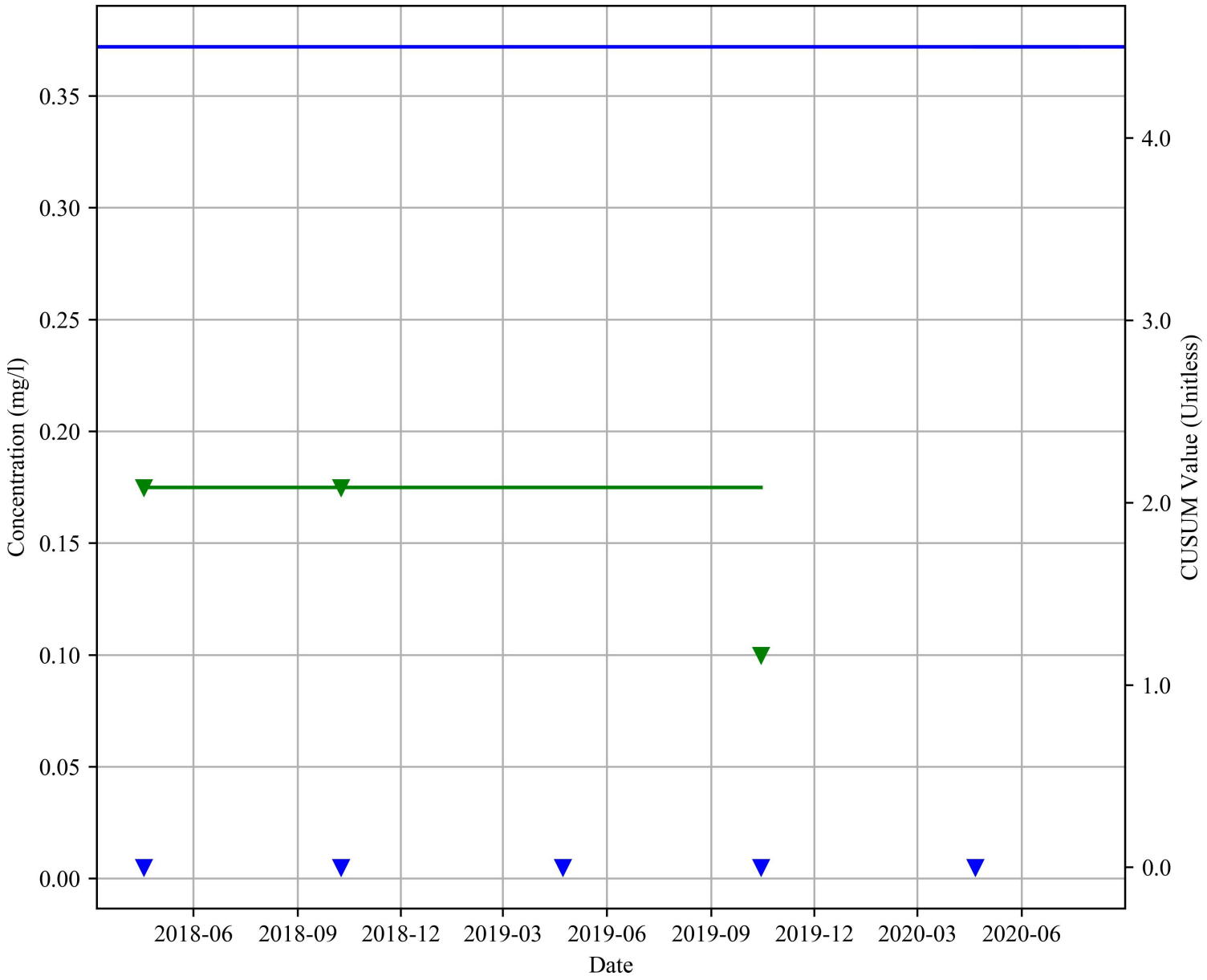
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-182:
Control Chart
MW 15A11
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

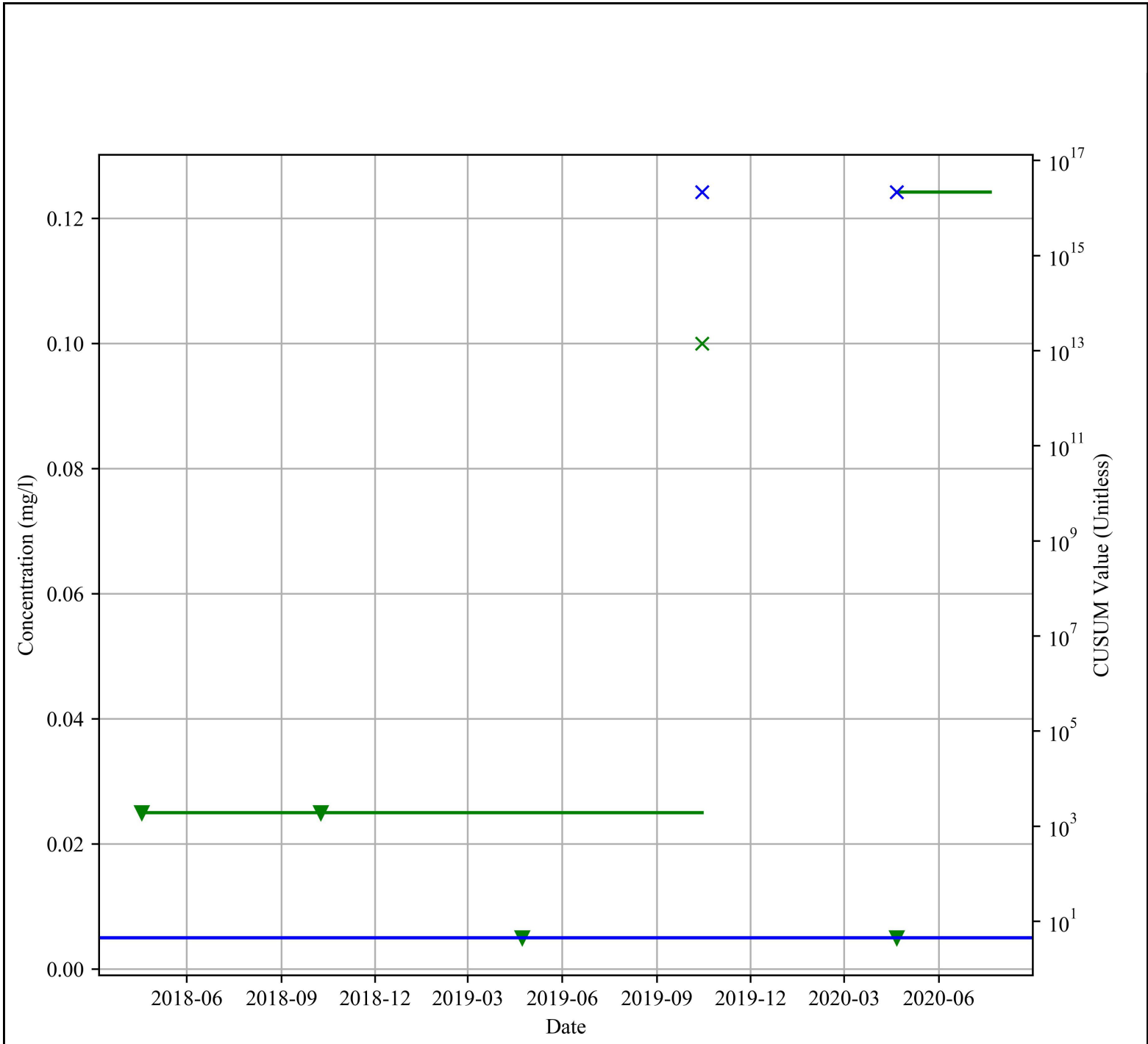
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-183:
Control Chart
MW 15A11
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

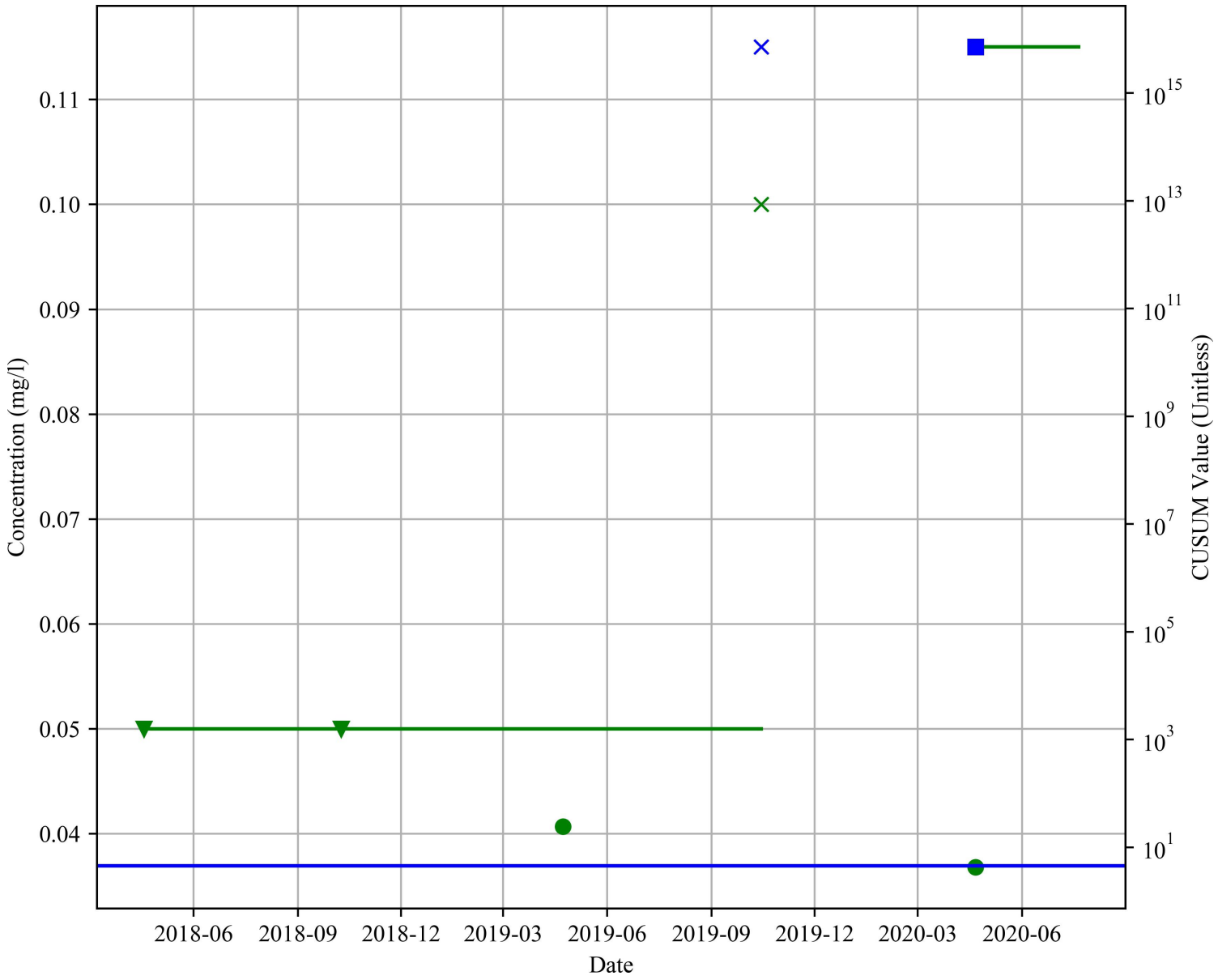
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-184:
Control Chart
MW 15A11
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

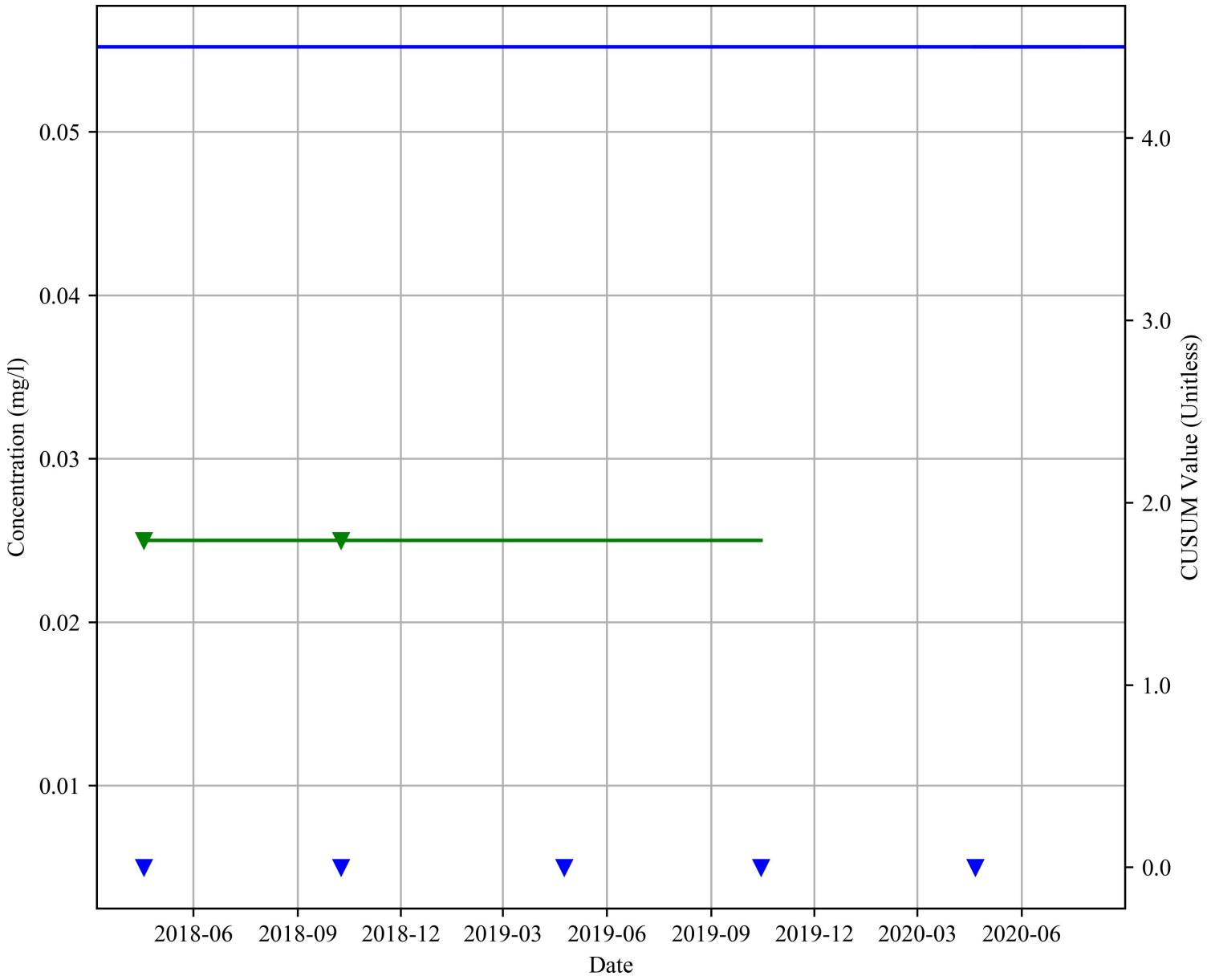
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-185:
Control Chart
MW 15A11
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

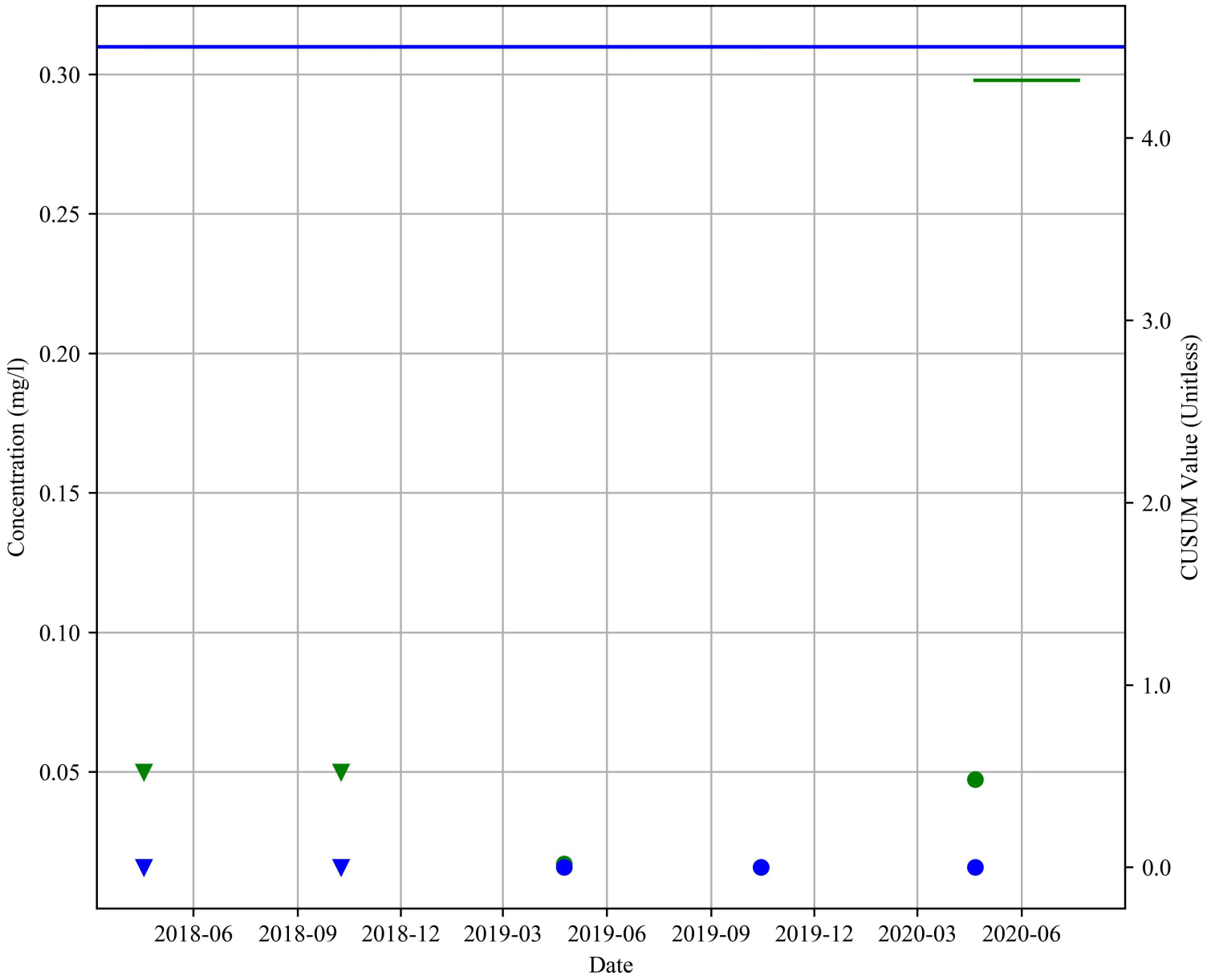
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-186:
Control Chart
MW 15A13A
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

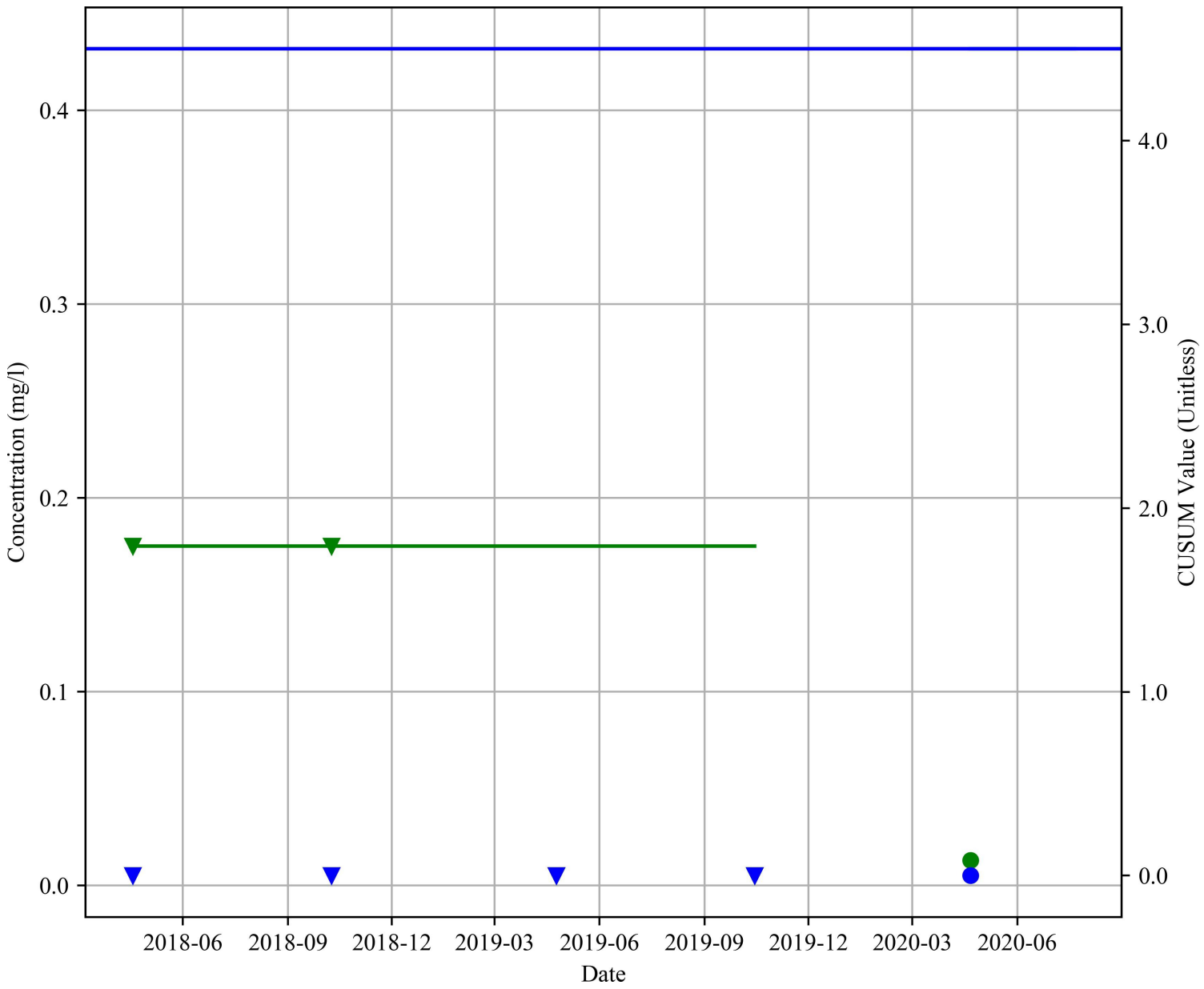
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-187:
Control Chart
MW 15A13A
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

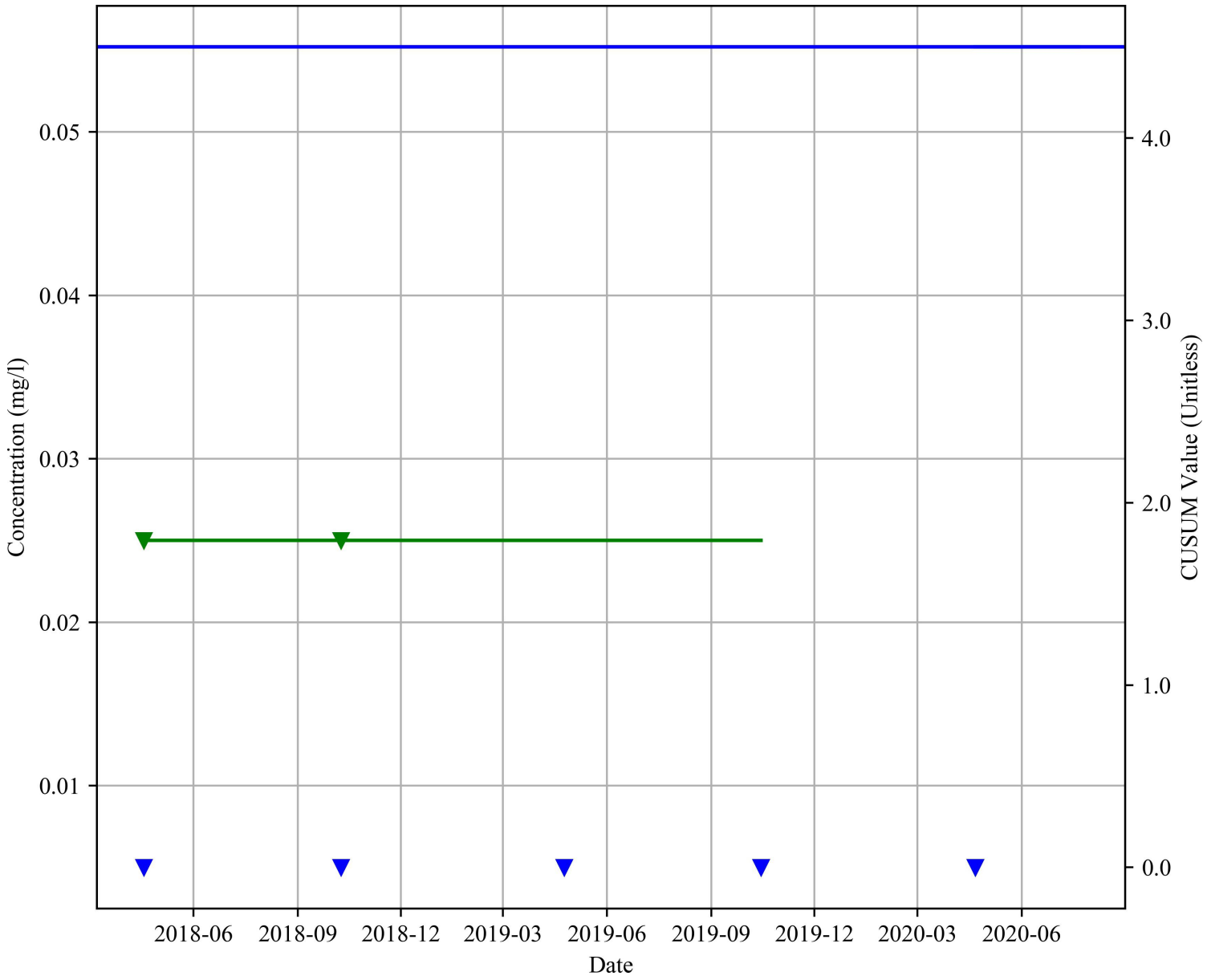
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-188:
Control Chart
MW 15A13A
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

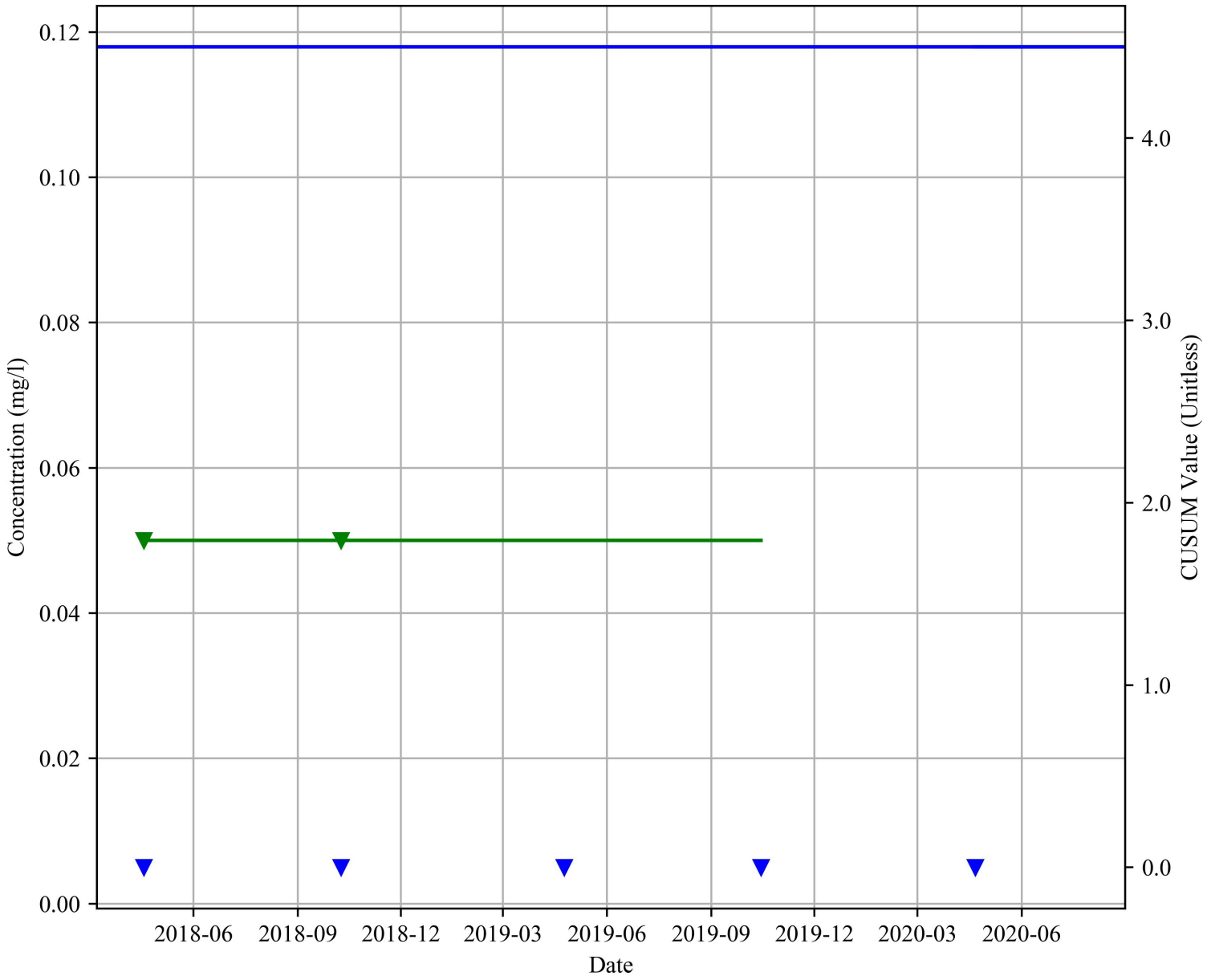
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-189:
Control Chart
MW 15A13A
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

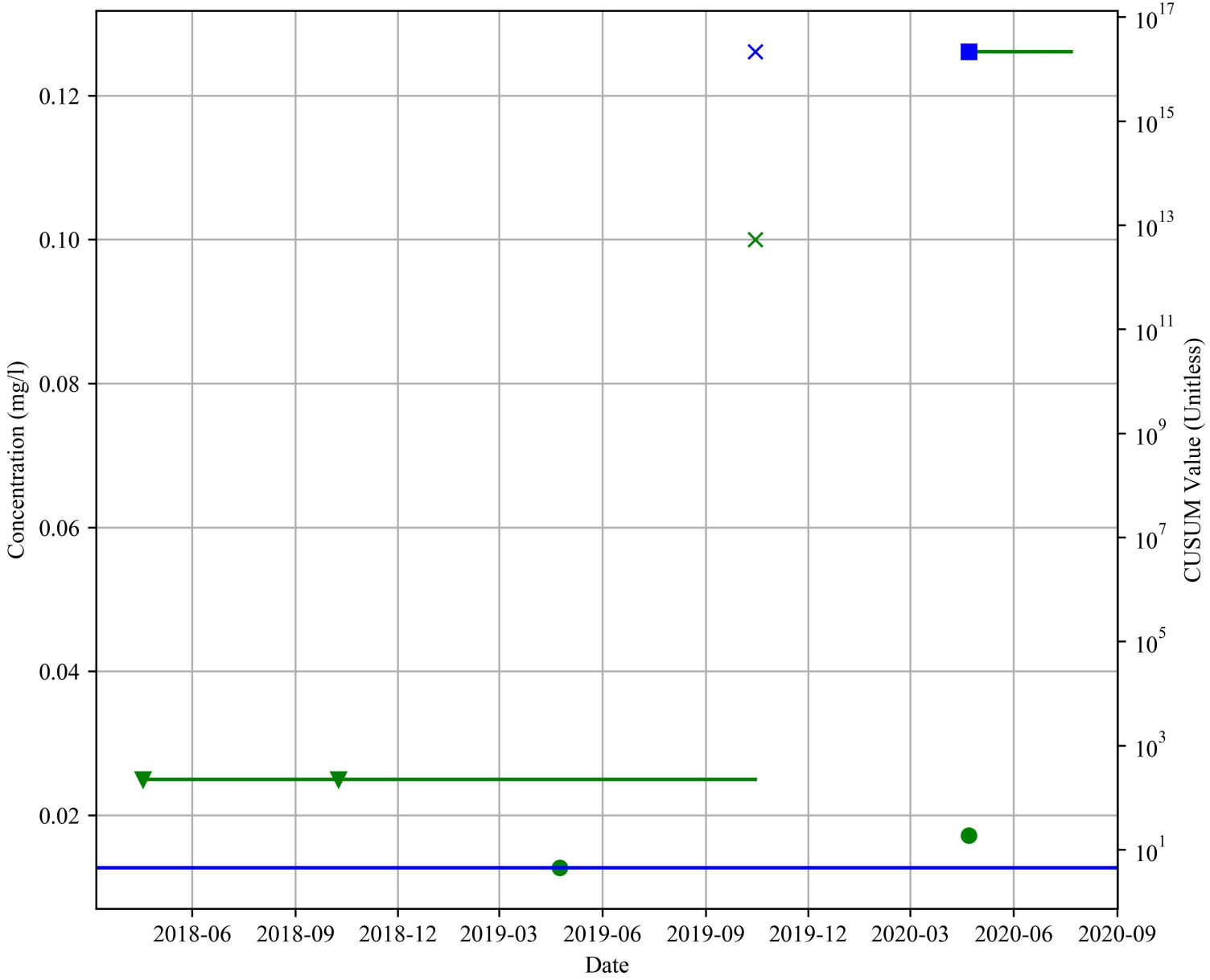
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-190:
Control Chart
MW 15A13A
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

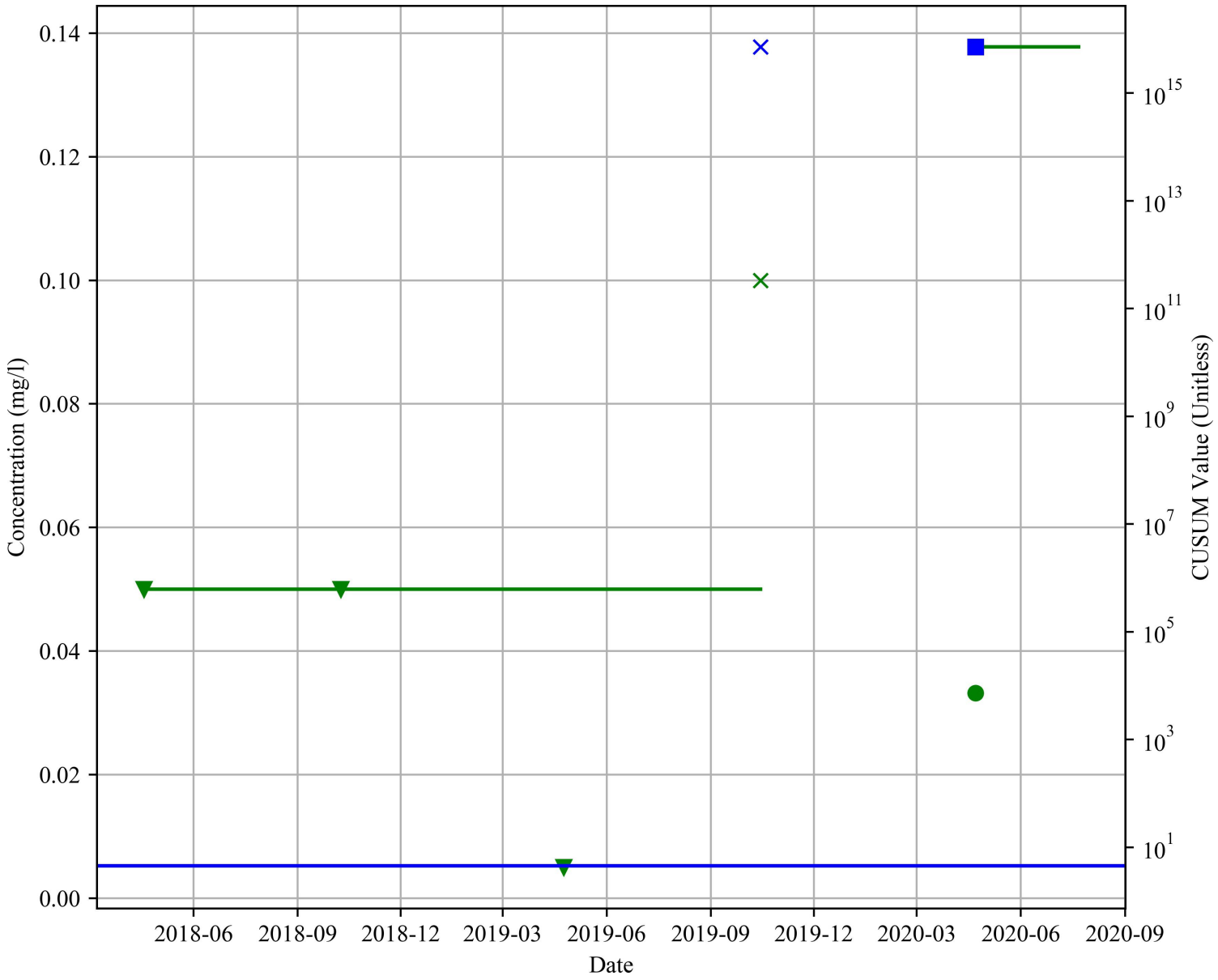
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-191:
Control Chart
MW 15A13B
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Fail Value
- CUSUM Limit

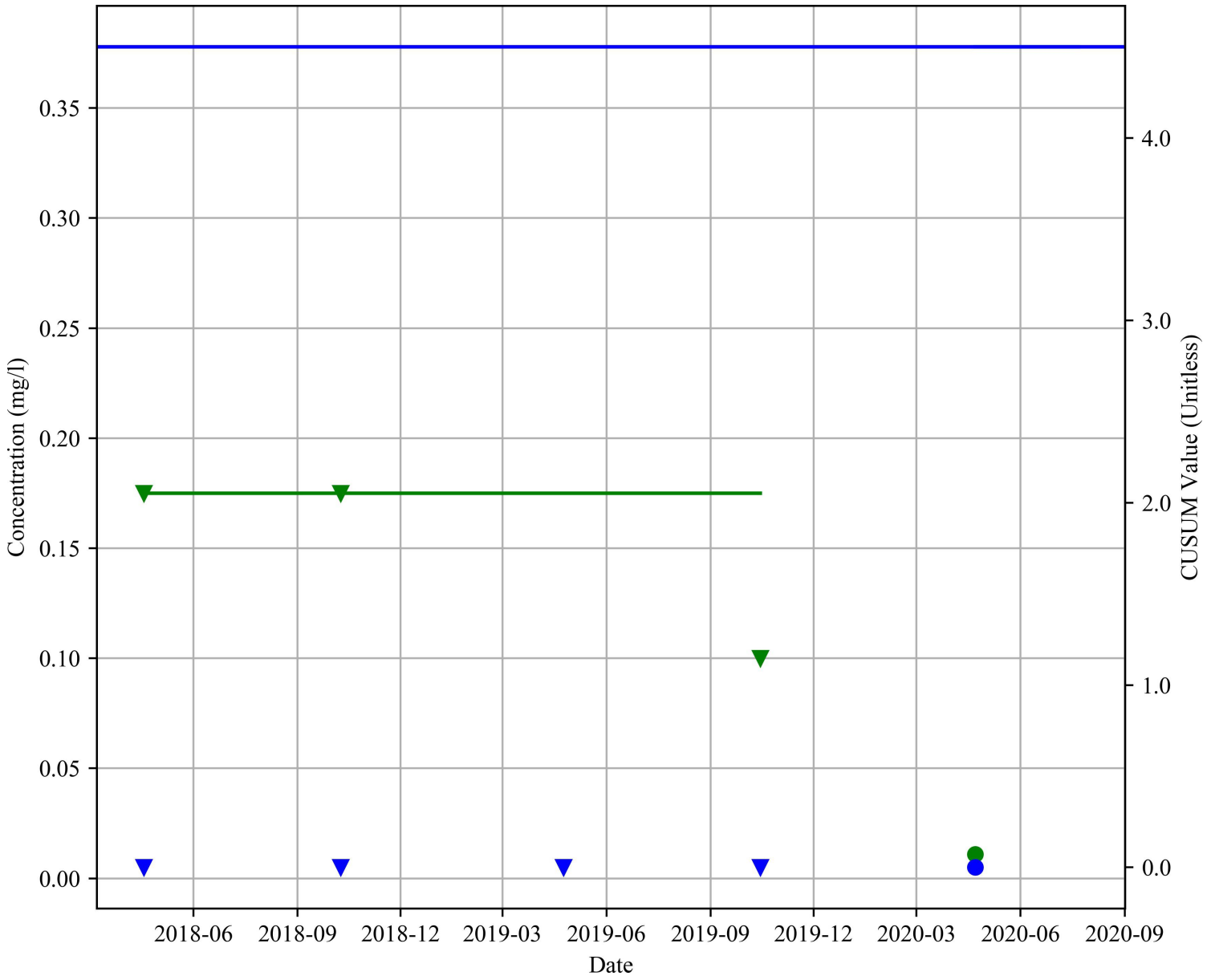
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-192:
Control Chart
MW 15A13B
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

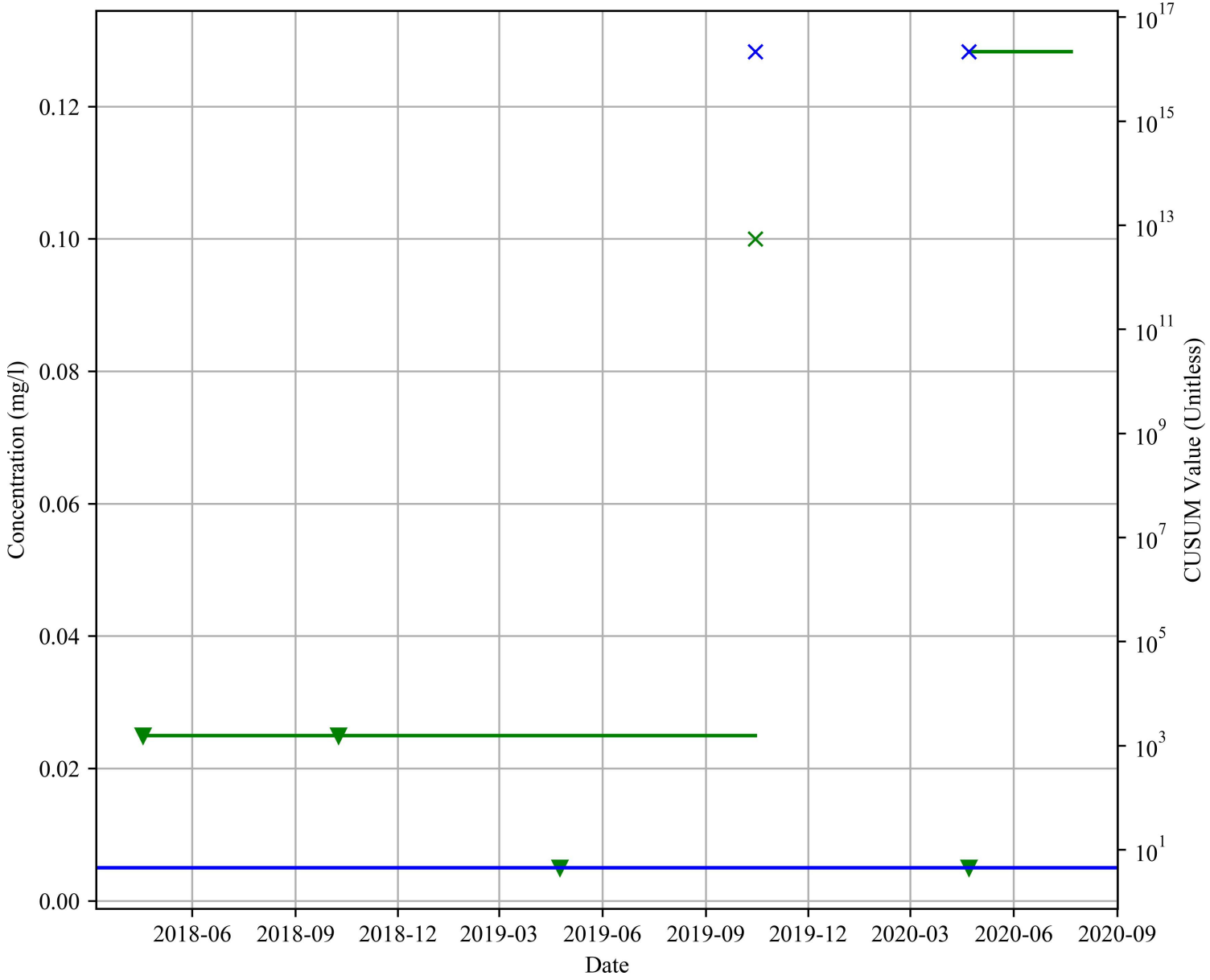
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-193:
Control Chart
MW 15A13B
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

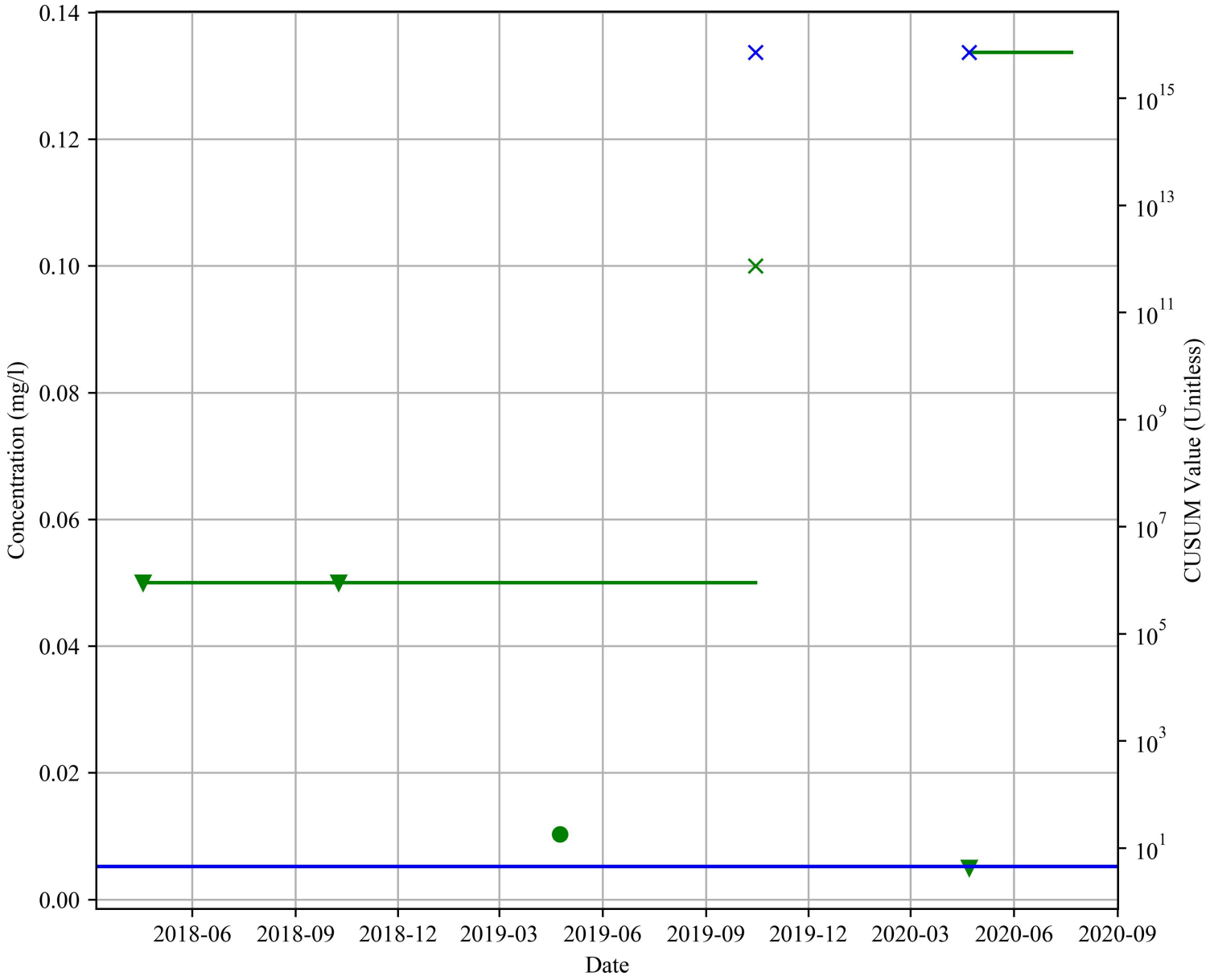
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-194:
Control Chart
MW 15A13B
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Fail ND Value
- CUSUM Limit

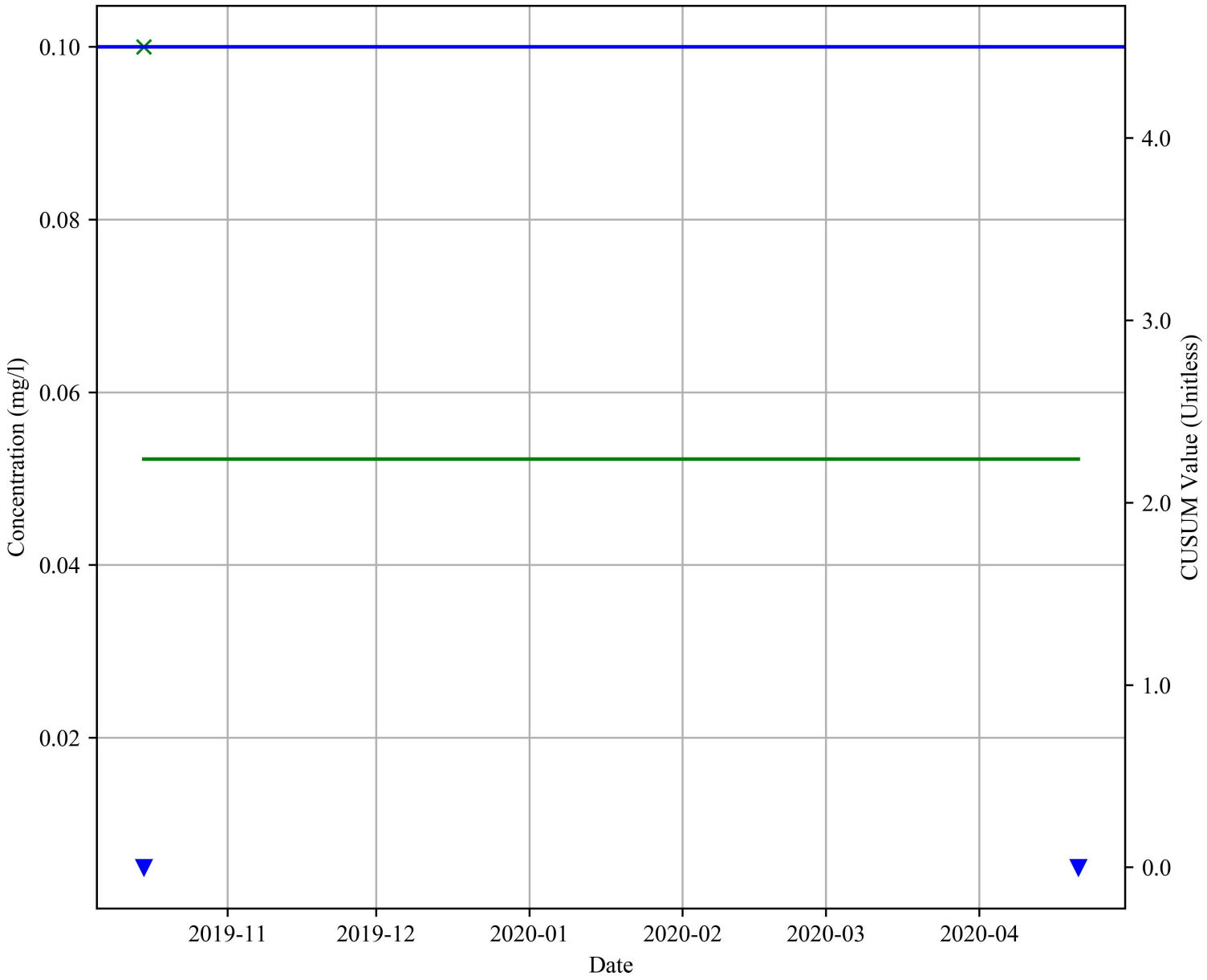
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-195:
Control Chart
MW 15A13B
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

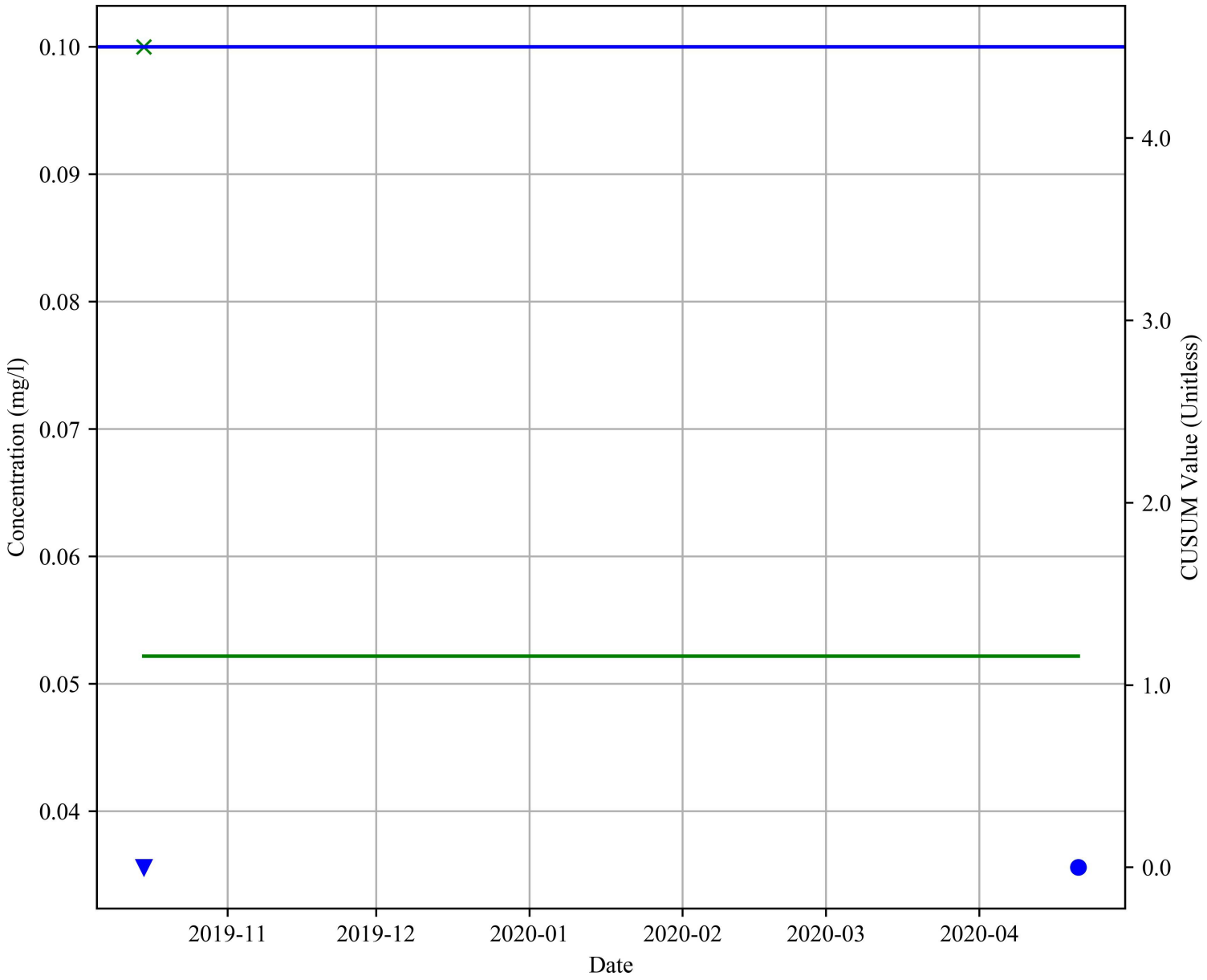
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-196:
Control Chart
MW 15A13C
Arsenic (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass Value
- CUSUM Pass ND Value
- CUSUM Limit

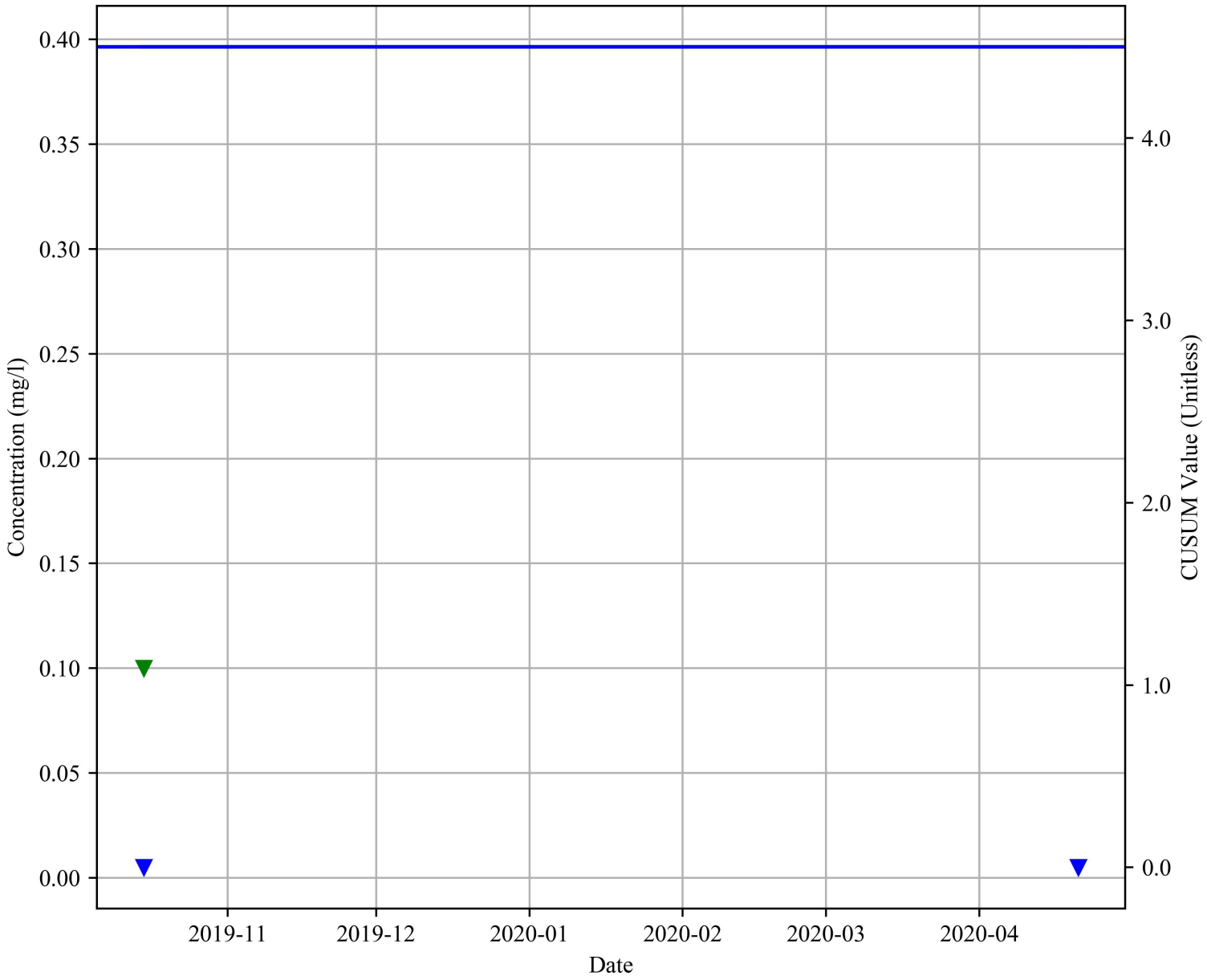
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-197:
Control Chart
MW 15A13C
Barium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

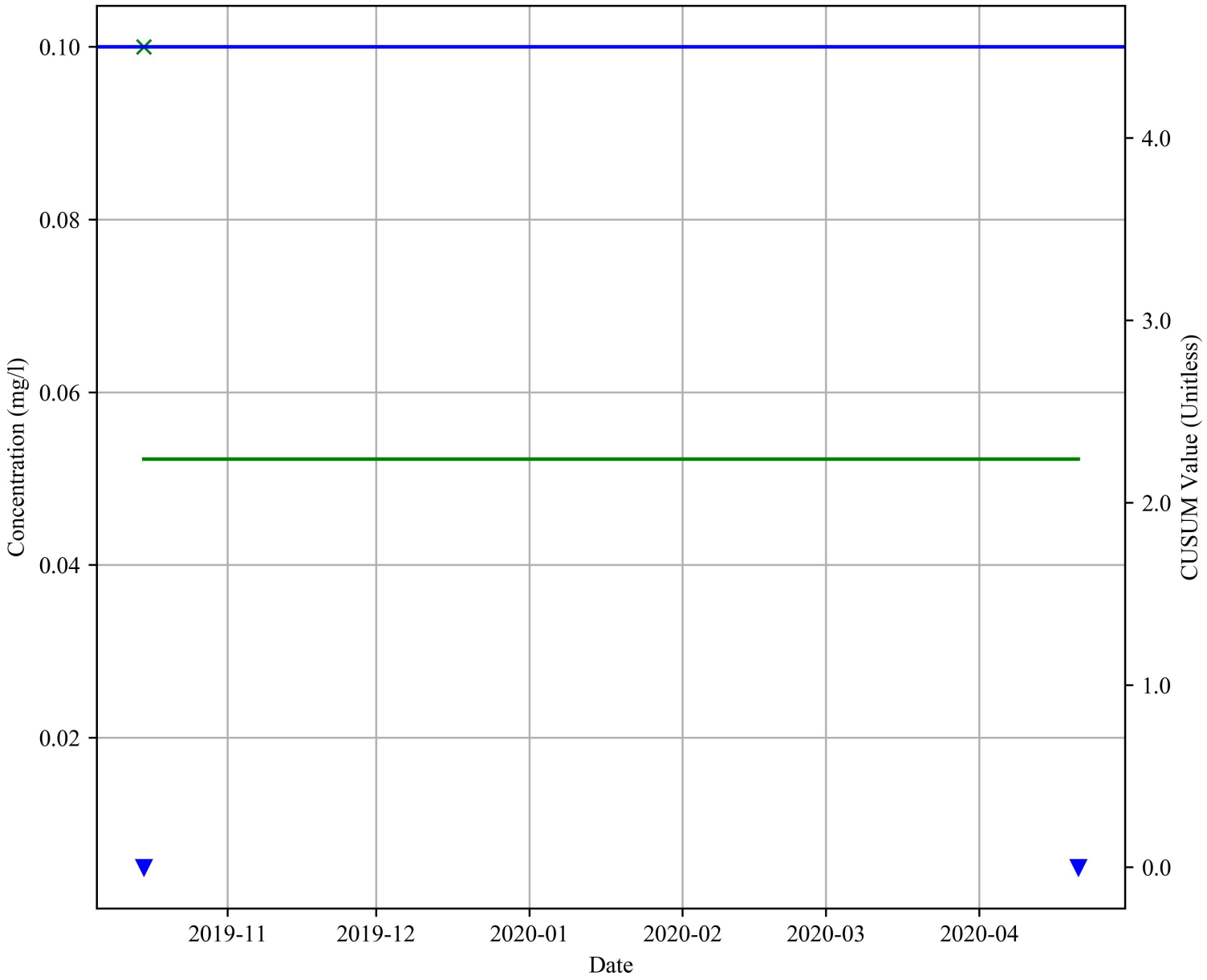
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-198:
Control Chart
MW 15A13C
Chromium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Fail ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

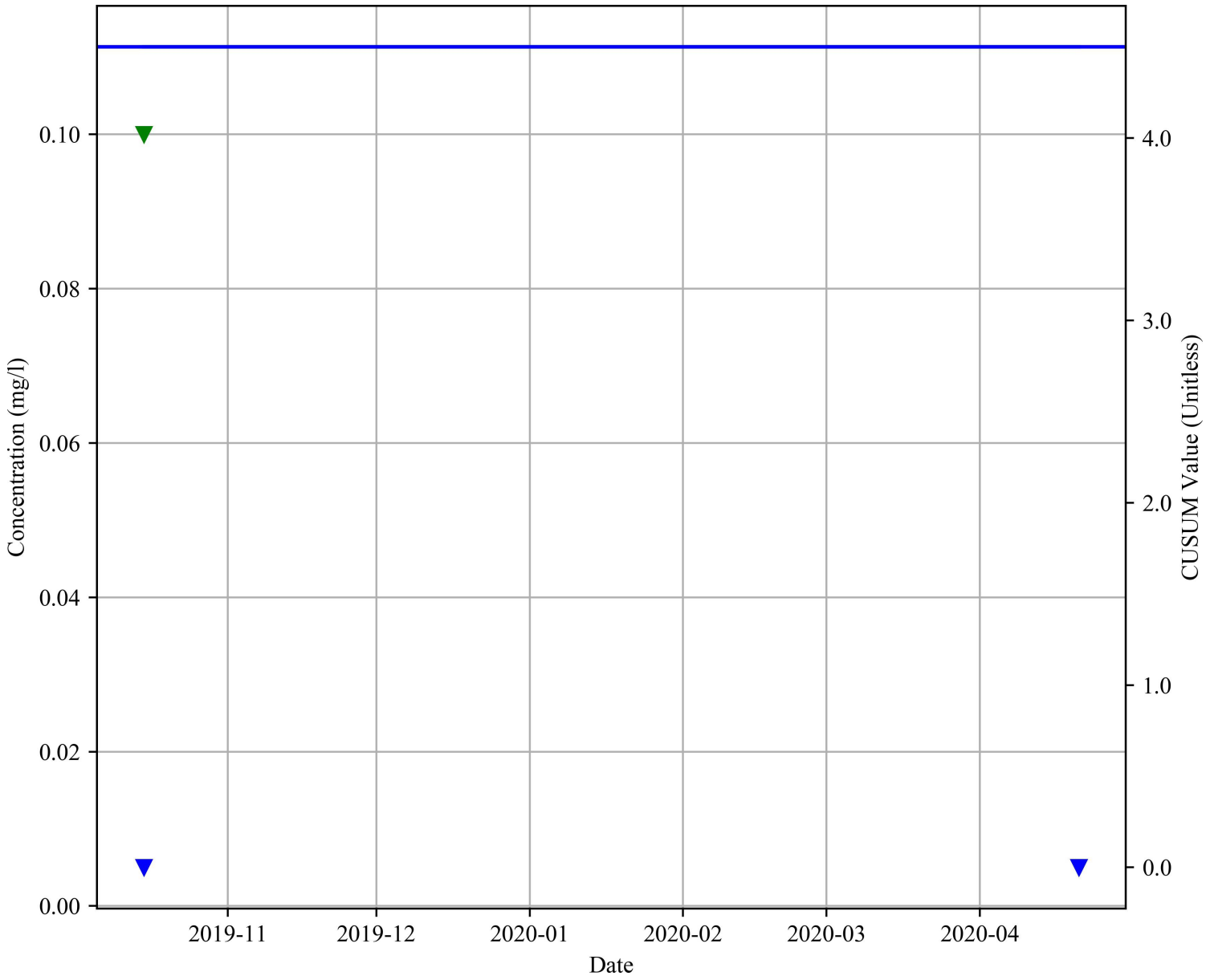
mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-199:
Control Chart
MW 15A13C
Lead (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates



Legend

- Shewart Pass ND Value
- Shewart Limit
- CUSUM Pass ND Value
- CUSUM Limit

mg/l = milligrams per liter

Clean Harbors
Lone Mountain

Figure A3.21-200:
Control Chart
MW 15A13C
Selenium (Total)

Drawn By: LA CC
Generator
2020-09-10

Leppert Associates