

Johnson, Sabrina O

From: Chamberlain, Justin
Sent: Monday, April 2, 2018 4:25 PM
To: Tafuni, Steven; Morgan, Steve; SWD_Waste
Subject: FW: 87895 Monitoring Plan Evaluation Report
Attachments: 87895 Enterprise WQTR 2015-2017.pdf

This just came in for Enterprise.

Regards,
Justin



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For information on Solid Waste Permitting, please visit our web site:
<https://floridadep.gov/waste/permitting-compliance-assistance/content/solid-waste-section>

For Waste Cleanup Program guidance and information, please visit our web site:
<https://floridadep.gov/waste/waste-cleanup/content/waste-site-cleanup-section>

For information on the Florida Brownfields Redevelopment Program, please visit our web site:
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Permitting Consistency Initiative: The Florida Department of Environmental Protection is committed to providing efficient, consistent and quality service to the citizens of Florida. In keeping with these objectives, we continue to identify ongoing improvements to our permitting process by standardizing and simplifying our documents.

From: Walker Wrenn
Sent: Monday, April 02, 2018 3:59 PM
To: Chamberlain, Justin
Cc: John Arnold ; John Locklear
Subject: 87895 Monitoring Plan Evaluation Report

Mr. Chamberlain,

Per APP-3; 11 of permit 177982-020-SO/T3 the monitoring plan evaluation report for Enterprise Class III Landfill (WACS 87895) is attached. Please don't hesitate to contact us if you have any questions.

All the best,

Walker Wrenn, P.G. | Environmental Division Director

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**ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER MONITORING
TECHNICAL REPORT 2015 - 2017**

**DEP PERMIT NO. 177982-023-SC/T3 & 177982-024-SO/T3
WACS No. 87895**

Prepared by:

**LOCKLEAR AND ASSOCIATES, INC.
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March 2018

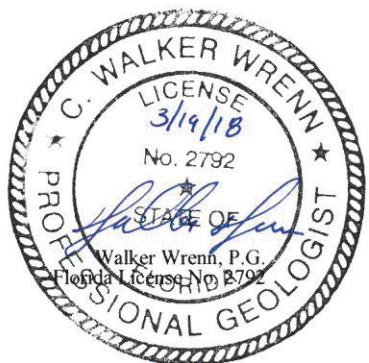


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ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER QUALITY TECHNICAL REPORT 2015-2017

DEP Permit No. 177982-023-SC/T3 & 177982-024-SO/T3
WACS No. 87895

1.0 INTRODUCTION

Enterprise Class III Landfill and Recycling Facility (Facility) is an active collection and recycling facility located approximately four miles southeast of Dade City, in Pasco County, Florida. The approximate center of the landfill is located at 28° 19' 53" N and 82° 08' 06" W.

The Landfill is located in eastern Pasco County, approximately four miles southeast of Dade City and five and a half miles northeast of Zephyrhills. More specifically, the site is located at the northeastern corner of the intersection of Enterprise Road and Auton Road.

The property is located on the eastern edge of the Brooksville Ridge physiographic province near the Western Valley. This ridge is wide with an irregular surface and extends through the north-central portion of Pasco County. The topography varies across the subject site, generally sloping slightly to the northeast in the northern half of the property and to the southeast or southwest in the southern half of the property.

The Brooksville ridge is characterized by a thin layer of sand and clayey sand underlain by a clayey unit that varies from 10 to 30 feet in thickness of Pliocene to recent age. This clayey unit ranges in thickness from about 0 to 50 feet in Pasco County. Below the sands and clays which comprise the surficial aquifer system is a thick sequence of sedimentary rock comprised mainly of limestone and dolomite, which comprise the Floridan aquifer system. From youngest to oldest, the sedimentary units include the Oligocene age Suwannee Limestone, the Eocene age Ocala Limestone, and the Eocene age Avon Park Formation. The Suwannee Limestone generally thins to the east and is thin or absent beneath the Brooksville Ridge. The limestone surface in the ridge area is irregular and may vary more than 100 feet in elevation over a short distance. The limestone surface elevation varies from -10 feet NGVD near the coast to around 140 feet NGVD on the crest of the Brooksville Ridge (SWFWMD, 1988).

This report summarizes data from the Facility from the Second Semiannual Compliance Monitoring Event – 2015 (15S2) through the Second Semiannual Compliance Monitoring Event – 2017 (17S2) and conforms with the requirements outlined in FAC Rule 62-701.510(8)(b). The following is a summary of the rule including the location of the associated information (if applicable) within this report:

- Tabular displays of any data which shows that a monitoring parameter has been detected (**Attachments 4 through 7**), including hydrographs for all monitoring wells (**Attachment 3**)
- Trend analyses of any monitoring parameters consistently detected. (**Section 3.0 and Attachment 5**)
- Comparison among shallow, middle, and deep zone wells.

- Comparisons between background water quality and the water quality in compliance wells. (**Section 3.0**)
- Correlations between related parameters, discussion of erratic or poorly correlated data. (**Sections 3.0 & 4.0**)
- An interpretation of the groundwater contour maps, including an evaluation of groundwater flow rates. (**Section 2.0 and Attachments 2 and 3**)
- An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based on site conditions. (**Section 5.0**)

The five sampling events summarized in this report were conducted on the dates listed in Table 1.1. The sampling events 15S2 through 17S2 are referred to as the “report period” throughout this document.

Table 1.1 Summary of Sampling Events during Report Period

<u>Sampling Event</u>	<u>Sampling Dates</u>
Second Semiannual 2015 (15S2)	September 21, 22 and 23, 2015
First Semiannual 2016 (16S1)	February 15 and 16, 2016
Second Semiannual 2016 (16S2)	December 27 and 28, 2016
First Semiannual 2017 (17S1)	March 27 and 28, 2017
Second Semiannual 2017 (17S2)	November 20 and 21, 2017

The monitoring network consists of the following:

Background Well: BW-1A and BW-1B

Detection Wells: MW-3, MW-3B, MW-4, MW-4B, MW-5A, MW-5B, MW-6, MW-6B, MW-7A, MW-7BR, MW-8, MW-8B, MW-9, MW-9B, MW-10, MW-10B, MW-17B, MW-18B, MW-19A and MW-20B

Other Supply Well

Piezometers: MW-1A, MW-1B, MW-11, MW-11B, MW-12A, MW-12B, P-4, P-6, P-8, P-10 and P-11

A current Site Plan map of the landfill is presented in Attachment 1.

2.0 GROUNDWATER FLOW

2.1 Groundwater Contouring

Groundwater contour maps are presented in Attachment 2. The direction of groundwater flow within the Floridan aquifer at the Facility is predominantly toward the northwest and west, with variations to the east. The surficial aquifer beneath the facility is not considered to be laterally continuous, therefore, is not reliable for mapping groundwater flow directions. Additionally, a surficial aquifer hydrograph is not included in this report based on the assumption that the groundwater encountered in many surficial wells during the continuous depth to water round was more likely “trapped” water in the well sumps and not representative of the true surficial aquifer; particularly in wells BW-1A, MW-1A, MW-8, MW-9 and MW-10.

Table 2.1 presents recorded fluctuations of groundwater elevation in the Floridan aquifer. The Floridan hydrograph is presented in Attachment 3. Groundwater elevations of the Floridan aquifer varied from approximately 63.60 feet to 74.36 feet NGVD throughout the groundwater monitoring network during the report period.

Table 2.1 Maximum/Minimum Groundwater Elevations

Groundwater Elevation (NGVD, FT)					
Monitoring Well	Top of Casing	Top of Screen	Bottom of Screen	Maximum Groundwater Elevation	Minimum Groundwater elevation
Surficial Aquifer Wells					
BW-1A	122.50	68	48	73.01	73.01
MW-1A	173.77	127	107	NA	NA
MW-3	85.39	91	71	74.15	72.35
MW-4	100.59	94	74	82.24	76.75
MW-5A	86.74	76	56	78.43	70.07
MW-6	88.65	78	58	75.41	63.60
MW-7A	100.72	79	59	74.58	67.72
MW-8	100.10	84	64	NA	NA
MW-9	108.00	98	78	NA	NA
MW-10	111.62	94	74	NA	NA
MW-11	104.45	82	62	74.55	68.42
MW-12A	121.43	79	59	73.84	68.31
MW-19A	146.88	77	57	89.22	85.63

Floridan Aquifer Wells					
BW-1B	122.82	38	18	74.07	67.94
MW-1B	174.11	67	57	73.97	67.78
MW-3B	84.80	56	41	74.14	67.99
MW-4B	100.87	57	42	74.17	68.04
MW-5B	85.70	48	38	74.06	67.89
MW-6B	89.10	52	32	74.19	63.18
MW-7BR	103.27	57	42	74.13	67.97
MW-8B	101.55	60	45	74.15	68.05
MW-9B	109.75	76	61	74.33	68.19
MW-10B	110.00	63	48	74.30	68.2
MW-11B	106.11	39	24	74.07	67.93
MW-12B	121.84	47	32	74.36	68.22
MW-17B	87.21	28	8	74.30	68.1
MW-18B	152.58	73	53	72.24	67.74
MW-20B	126.86	77	57	72.28	67.72

Table Notes:

1) Elevations are approximate, based upon available well data.

2) Groundwater Elevations in this table are continuous-round measurements.

2.2 Groundwater Flow Velocity

The groundwater flow velocity for the Floridan aquifer beneath the Facility was calculated using data from a previously performed hydrogeological study (*Hydrogeological Investigation and Groundwater Monitoring Plan - 2005 Permit Modification*, dated January 2006). Horizontal groundwater velocity (v) was calculated using D'Arcy equation for lateral flow:

$$v = (K/n) * (\Delta H/\Delta L)$$

where,

v = flow velocity

K = hydraulic conductivity

n_e = effective porosity

ΔH = change in head

ΔL = distance between measuring points

The following values are products of the 2006 study:

$$K = 3.78 \text{ feet/day (average)}$$

$$n_e = 0.2 \text{ to } 0.5$$

Data from monitoring points MW-10B and P-10 were used to calculate site flow velocity calculations. These monitoring points were chosen because they encompass the steepest hydraulic gradient, based on the groundwater contour maps for the report period

ΔL was calculated by measuring the distance between monitoring points MW-10B and P-10 (3020 ft.). ΔH was determined by calculating the difference in the reported potentiometric values at the described monitoring points. ΔH between monitoring points MW-10B and P-10 ranged from 0.268 to 0.36 feet, with an average of 0.32 feet during the report period. As shown in the following equations, the maximum flow velocity of the surficial aquifer between monitoring points MW-10B and P-10 during the report period was 0.00189 feet/day or 0.69 feet/year.

$$v = (K/n_e) * (\Delta H/\Delta L)$$

$$v_{\max} = (3.78 \text{ feet/day} / 0.2) * (0.32 \text{ feet} / 3020 \text{ feet})$$

$$v_{\max} = (18.9 \text{ feet/day}) * (0.0001) = \mathbf{0.00189 \text{ feet/day}} \quad \mathbf{\text{or}} \quad \mathbf{0.69 \text{ feet/year}}$$

$$v_{\min} = (3.78 \text{ feet/day} / 0.5) * (0.32 \text{ feet} / 3020 \text{ feet})$$

$$v_{\min} = (7.56 \text{ feet/day}) * (0.0001) = \mathbf{0.000756 \text{ feet/day}} \quad \mathbf{\text{or}} \quad \mathbf{0.28 \text{ feet/year}}$$

The flow velocity in the 2006 Hydrogeological Investigation ranged from 3.0 to 5.1 feet/year.

3.0 GROUNDWATER QUALITY

Detailed groundwater quality data have been submitted with the groundwater monitoring reports during the report period.

Groundwater standards include the Primary Drinking Water Standards (PDWS), Secondary Drinking Water Standards (SDWS), and Groundwater Cleanup Target Levels (GCTL). Very few parameters were reported at or outside groundwater standards during the report period. These parameters include the following:

Field Parameters:	pH
Metals	Iron
	Lead
	Nitrate as N

Attachment 4 presents detected parameter exceedances compared to groundwater standards for each sampling event of the report period. Presented in Attachment 5 are graphs of detected field and laboratory parameters. Attachment 6 presents a historical data summary.

Levels of pH in the Floridan background monitoring well, BW-1B, were within the SDWS limits (6.5 to 8.5 S.U.) during the report period. With the exception of well MW-10B (6.13 and 6.21 S.U.) the remaining Floridan wells were within the SDWS. The majority of the surficial aquifer wells were reported below the lower limit of the SDWS, which is common in surficial aquifer monitoring wells. The facility pH levels are consistent to historical results.

Iron levels were reported below the SDWS of 300 µg/L in the Floridan background monitoring well, BW-1B, during the reporting period. Iron was reported above the SDWS in Floridan MW-8B, ranging from 4270 to 5410 µg/L. Iron was reported below the SDWS in all remaining Floridan aquifer monitoring wells. Surficial aquifer wells MW-5A, MW-7A and MW-19A reported Iron above the SDWS. Iron was reported below the SDWS in all remaining surficial aquifer monitoring wells. The facility Iron levels are consistent to historical results.

Lead levels were reported below the PSDWS of 15 µg/L in all monitoring wells. Lead was reported above the PDWS in the Supply Well (18.8 µg/L) from the sample collected during the 17S1 event. Lead has never been reported in the Supply Well before or after this event. Continued semiannual sampling will closely scrutinize the lead levels at all sampling points, however, we believe the lead reported in the Supply Well during the 17S1 event to be erratic and not correlative to any trend or contamination.

Nitrate as N levels were reported below the SDWS of 10 mg/L in all wells except MW-19A (16 and 17 mg/L during the 17S1 and 17S2 events, respectively). Continued semiannual sampling is scheduled to analyze the Nitrate as N trend.

With the exception of lead reported in the Supply Well, the data does not appear to be erratic or poorly correlative. With the exception of Nitrate as N in MW-19A, no PDWS exceedances were reported during the report period.

4.0 CORRELATION OF RELATED PARAMETERS

The following values were plotted and compared using R-squared analysis where 0.0 indicates that the model explains none of the variability of the response data around its mean and 1.0 indicates that the model explains all of the variability of the response data around its mean:

- Specific Conductance – Total Dissolved Solids
- pH – Iron
- Oxidation / Reduction Potential – Iron
- Dissolved Oxygen – Iron

The resulting scatter plot charts are provided in Attachment 7. The plots indicate a strong correlation between Specific Conductance and Total Dissolved Solids ($r^2 = 0.93$), and weak correlations between Dissolved Oxygen and Iron ($r^2 = 0.24$), pH and Iron ($r^2 = 0.002$), Total Dissolved Solids and Nitrate as Nitrogen ($r^2 = 0.184$) and pH and Nitrate as Nitrogen ($r^2 = 0.04$).

5.0 ADEQUACY OF MONITORING NETWORK

The site is underlain by a partial surficial aquifer and the Floridan aquifer. The surficial aquifer is not laterally continuous in all areas. The site monitoring network includes wells in both the surficial aquifer and the Floridan aquifer. In all areas where the surficial aquifer monitoring well contained insufficient water for sampling, a Floridan aquifer well is installed in cluster with the surficial aquifer well. Therefore, groundwater samples collected from the Floridan aquifer monitoring well represent the uppermost continuous water bearing unit.

The surficial and Floridan aquifer monitoring wells are positioned around the entire landfill boundary with background wells located on the southern landfill boundary. The groundwater monitoring network appears adequate to detect potential contaminants emanating from the landfill.

Monitoring wells are strategically situated in all downgradient directions. With groundwater flow velocities on the order of less than one foot per year. A semiannual (six month) sampling period is sufficient to detect possible contaminant flows (if any) in the downgradient wells from the Facility operations.

The groundwater flow direction is predominately toward the west and east. Monitoring wells are located downgradient in the described flow directions; enabling detection of contaminant flows (if any) from the site operations.

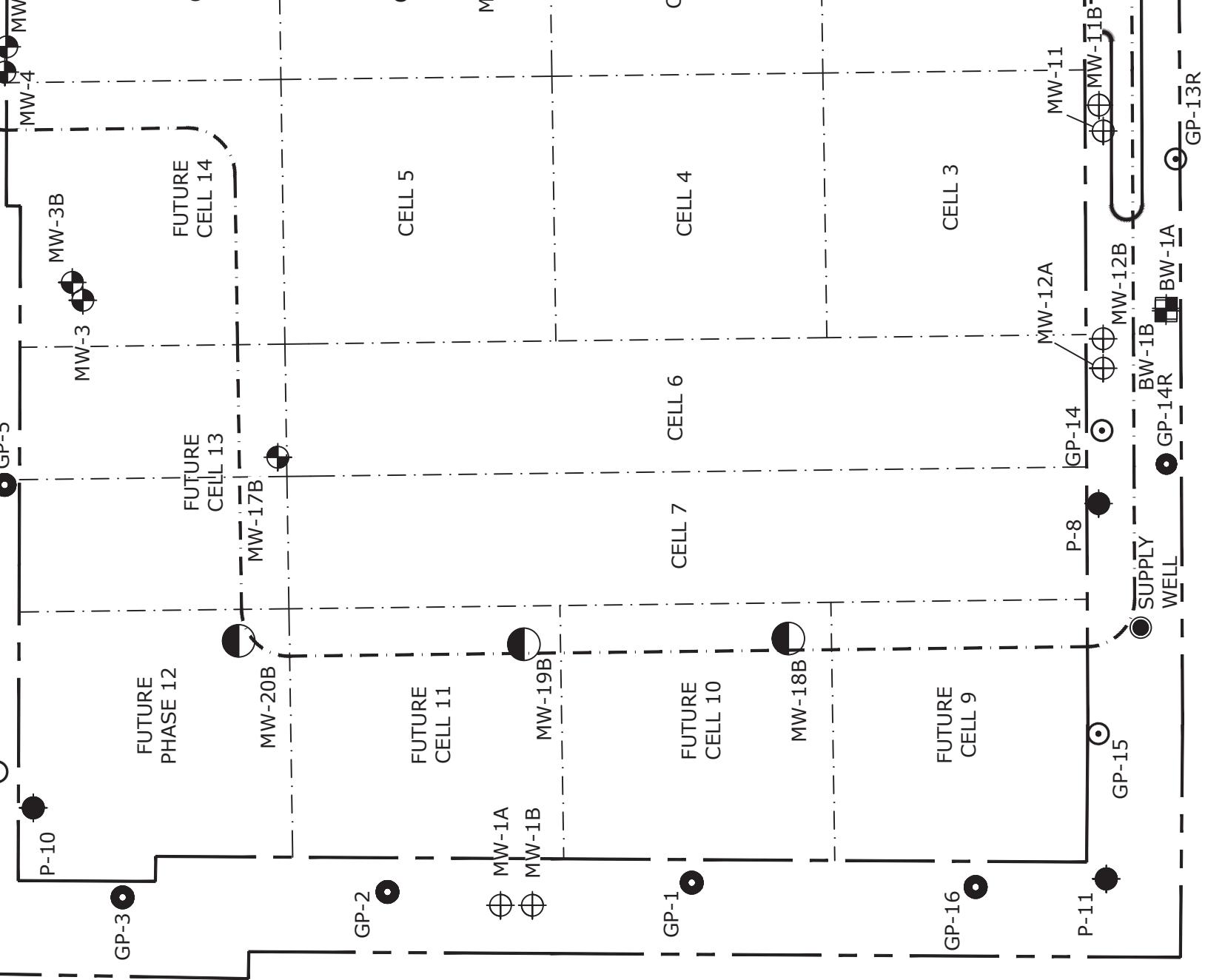
The current sampling frequency and monitoring well locations appear to be sufficient to adequately monitor the groundwater conditions at the site and no changes are proposed at this time.

6.0 CONCLUSIONS & RECOMMENDATIONS

- Groundwater flow beneath the site is generally towards the west and east. The location of background well (BW-1A and BW-1B) and the downgradient wells are appropriate based on the observed flow directions.
- Groundwater flow velocity beneath the site is on the order of less than one half foot per semiannual event. Therefore, the semiannual monitoring frequency is appropriate.
- Groundwater quality at the Facility is consistent with historical results and/or natural occurring background groundwater quality. Semiannual groundwater monitoring should be continued in accordance with the Facility permit.

ATTACHMENT 1

SITE MAP



BACKGROUND MONITORING WELL LOCATION

DETECTION MONITORING WELL LOCATION

SUPPLY WELL LOCATION

SOLID WASTE PIEZOMETER WELL LOCATION

PROPOSED COMPLIANCE MONITORING WELL LOCATION

WATER LEVEL ONLY WELL LOCATION

PROPOSED TO BE ABANDONED

COMPLIANCE MONITORING WELL LOCATION

GAS PROBE LOCATION

FUTURE GAS PROBE LOCATION

PROPERTY BOUNDARY

ANDFILL LIMITS

CELL BOUNDARY

ZONE OF DISCHARGE

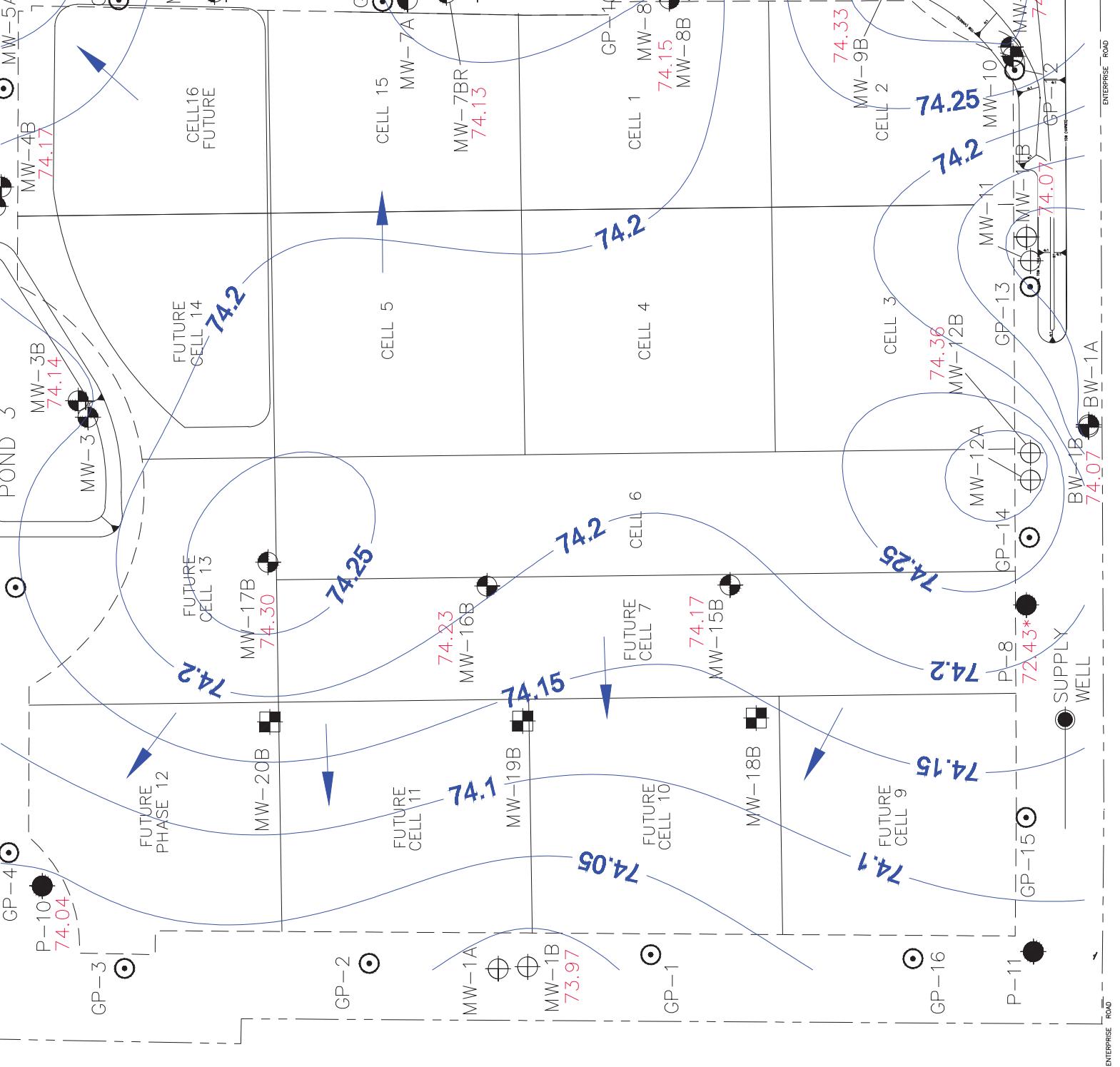
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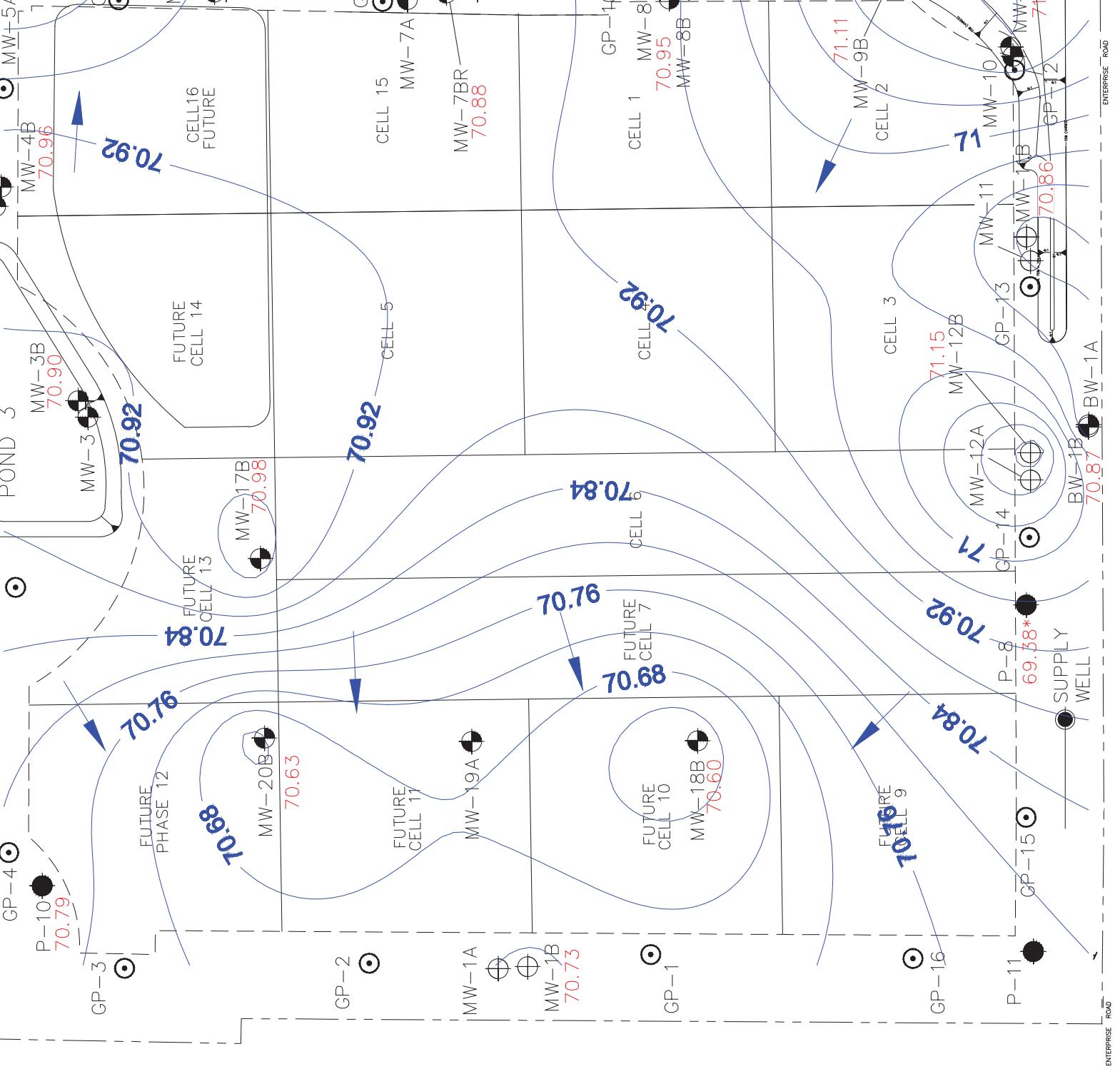
GRAPHIC SCALE

ATTACHMENT 2

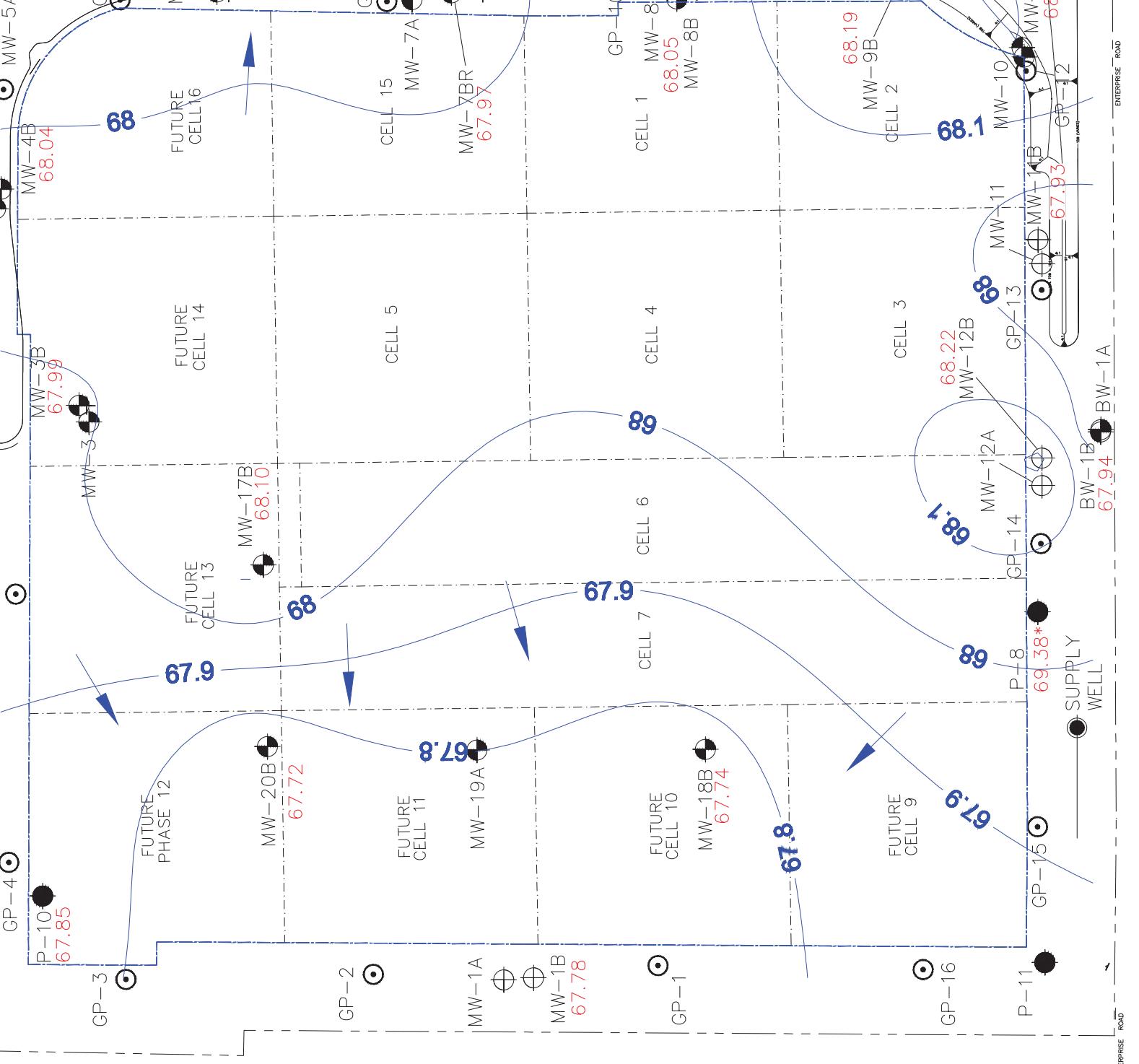
GROUNDWATER CONTOUR MAPS

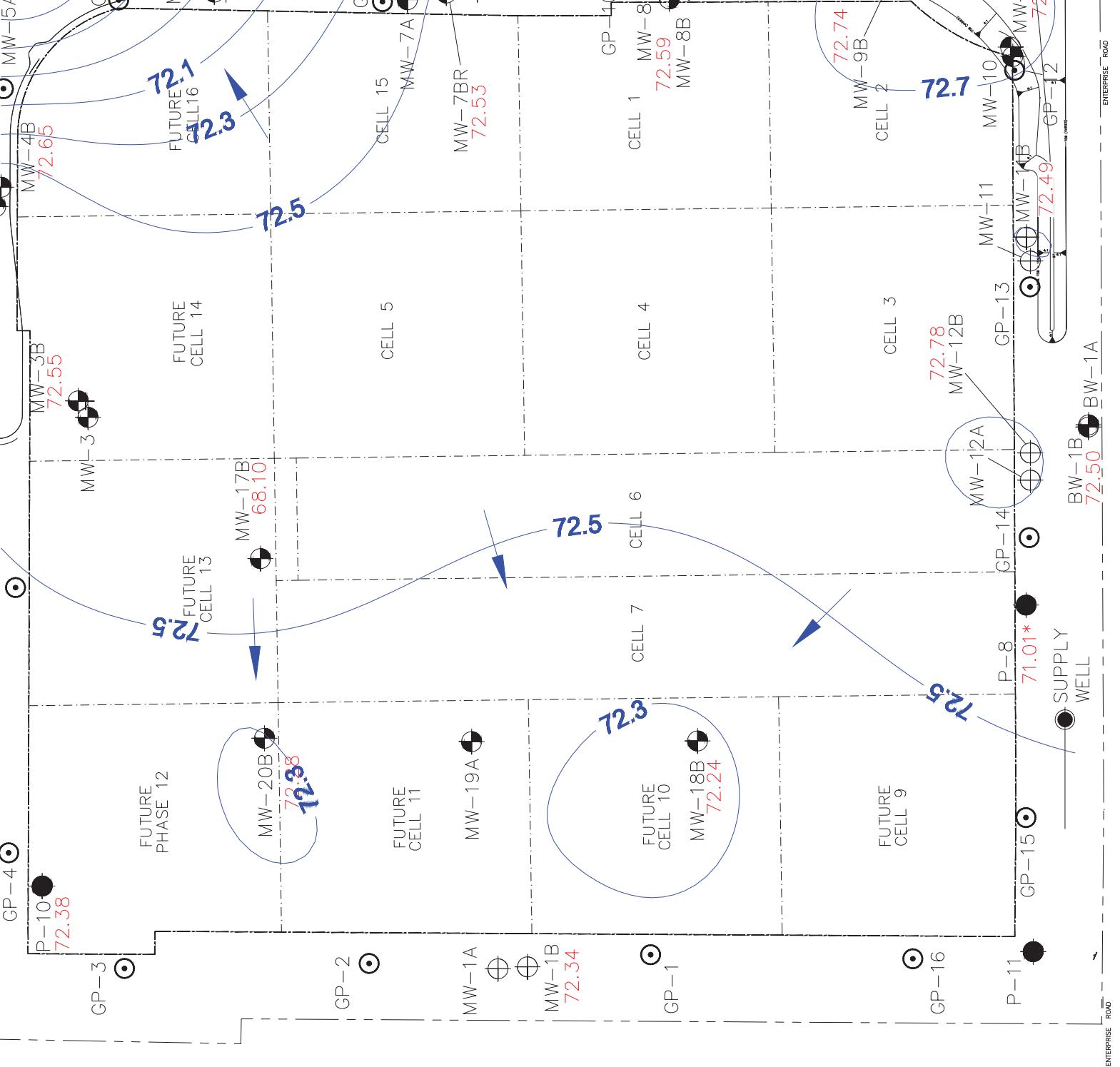


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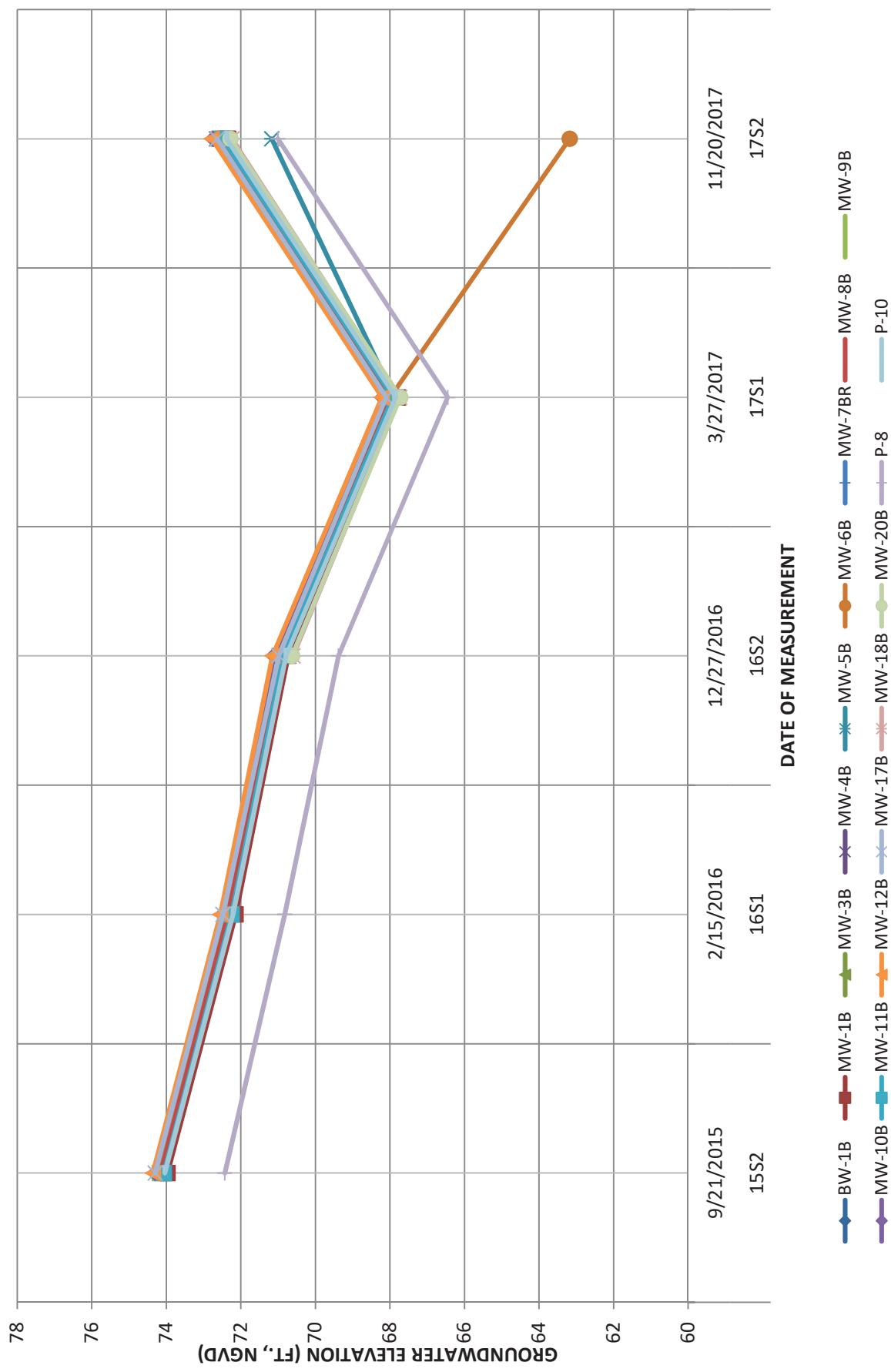


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ATTACHMENT 3

HYDROGRAPH

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY HYDROGRAPH OF FLORIDAN AQUIFER



ATTACHMENT 4

DETECTED PARAMETER EXCEEDANCES COMPARED TO GROUNDWATER STANDARDS

ANGELO'S AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS EXCEEDING STANDARDS

PARAMETER	Date	Iron	Nitrate as N	Lead	pH
STANDARD	-	300 µg/L**	10 mg/L*	15 µg/L*	6.5-8.5 SU**
UNIT	MM/DD/YYYY	µg/L	mg/L	µg/L	S.U.
Background					
BW-1B					
15S2	9/23/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/27/2017	-	-	-	-
17S2	11/20/2017	-	-	-	-
Detection					
Floridan					
MW-3B					
15S2	9/22/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/28/2017	-	-	-	-
17S2	11/21/2017	-	-	-	-
MW-4B					
15S2	9/23/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/28/2017	-	-	-	-
17S2	11/21/2017	-	-	-	-
MW-5B					
15S2	9/22/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/28/2017	-	-	-	-
17S2	11/21/2017	-	-	-	-
MW-6B					
15S2	9/23/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/28/2017	-	-	-	-
17S2	11/21/2017	-	-	-	-
MW-7BR					
15S2	9/21/2015	-	-	-	-
16S1	2/15/2016	-	-	-	-
16S2	12/27/2016	-	-	-	-
17S1	3/27/2017	-	-	-	-
17S2	11/20/2017	-	-	-	-
MW-8B					
15S2	9/21/2015	5030	-	-	-
16S1	2/15/2016	4270	-	-	-
16S2	12/27/2016	4730	-	-	-
17S1	3/27/2017	5300	-	-	-
17S2	11/20/2017	5410	-	-	-

ANGELO'S AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS EXCEEDING STANDARDS

PARAMETER STANDARD	Date MM/DD/YYYY	Iron µg/L	Nitrate as N mg/L*	Lead µg/L*	pH S.U.
MW-9B					
15S2	9/21/2015	-	-	-	-
16S1	2/15/2016	-	-	-	-
16S2	12/27/2016	-	-	-	-
17S1	3/27/2017	-	-	-	-
17S2	11/20/2017	-	-	-	-
MW-10B					
15S2	9/21/2015	-	-	-	6.21
16S1	2/16/2016	-	-	-	6.13
16S2	12/27/2016	-	-	-	-
17S1	3/27/2017	-	-	-	-
17S2	11/20/2017	-	-	-	-
MW-17B					
15S2	9/22/2015	-	-	-	-
16S1	2/15/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/28/2017	-	-	-	-
17S2	11/21/2017	-	-	-	-
MW-18B					
15S2	NS	NS	NS	NS	NS
16S1	NS	NS	NS	NS	NS
16S2	NS	NS	NS	NS	NS
17S1	3/27/2017	-	-	-	-
17S2	11/21/2017	-	-	-	-
MW-20B					
15S2	NS	NS	NS	NS	NS
16S1	NS	NS	NS	NS	NS
16S2	NS	NS	NS	NS	NS
17S1	3/27/2017	-	-	-	-
Surficial					
MW-3					
15S2	9/22/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	NS	NS	NS	NS	NS
17S1	NS	NS	NS	NS	NS
17S2	11/21/2017	-	-	-	-
17S2	11/20/2017	-	-	-	-
MW-4					
15S2	9/23/2015	-	-	-	-
16S1	2/16/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	NS	NS	NS	NS	NS
17S2	11/21/2017	-	-	-	-

ANGELO'S AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS EXCEEDING STANDARDS

PARAMETER STANDARD	Date MM/DD/YYYY	Iron µg/L	Nitrate as N mg/L*	Lead 15 µg/L*	pH 6.5-8.5 SU** S.U.
MW-5A					
15S2	9/22/2015	-	-	-	5.38
16S1	2/16/2016	-	-	-	6.17
16S2	12/28/2016	-	-	-	5.64
17S1	3/28/2017	761	-	-	5.59
17S2	11/21/2017	-	-	-	5.78
MW-6					
15S2	9/23/2015	-	-	-	5.56
16S1	2/16/2016	-	-	-	6.27
16S2	12/28/2016	-	-	-	5.42
17S1	NS	NS	NS	NS	NS
17S2	11/21/2017	-	-	-	5.47
MW-7A					
15S2	9/21/2015	1630	-	-	4.83
16S1	2/15/2016	766	-	-	4.94
16S2	12/27/2016	767	-	-	5.04
17S1	3/27/2017	424	-	-	5.3
17S2	11/20/2017	2760	-	-	4.6
MW-19A					
15S2	NS	NS	NS	NS	NS
16S1	NS	NS	NS	NS	NS
16S2	NS	NS	NS	NS	NS
17S1	3/27/2017	366	16	-	6.11
17S2	11/21/2017	-	17	-	5.38
Supply					
SUPPLY WELL					
15S2	9/22/2015	-	-	-	-
16S1	2/15/2016	-	-	-	-
16S2	12/28/2016	-	-	-	-
17S1	3/28/2017	-	-	18.8	-
17S2	11/21/2017	-	-	-	-

Legend

* = primary drinking water standard

** = secondary drinking water standard

*** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

1 = No Standard

- = Analysis Result is not at or outside Groundwater Standard (GWS)

NS = Not Sampled

NM = Not Measured

Note: Analysis results which were reported above the laboratory detection limit, but not at or above the GWS are not displayed

ATTACHMENT 5

GROUNDWATER CHEMISTRY GRAPHS

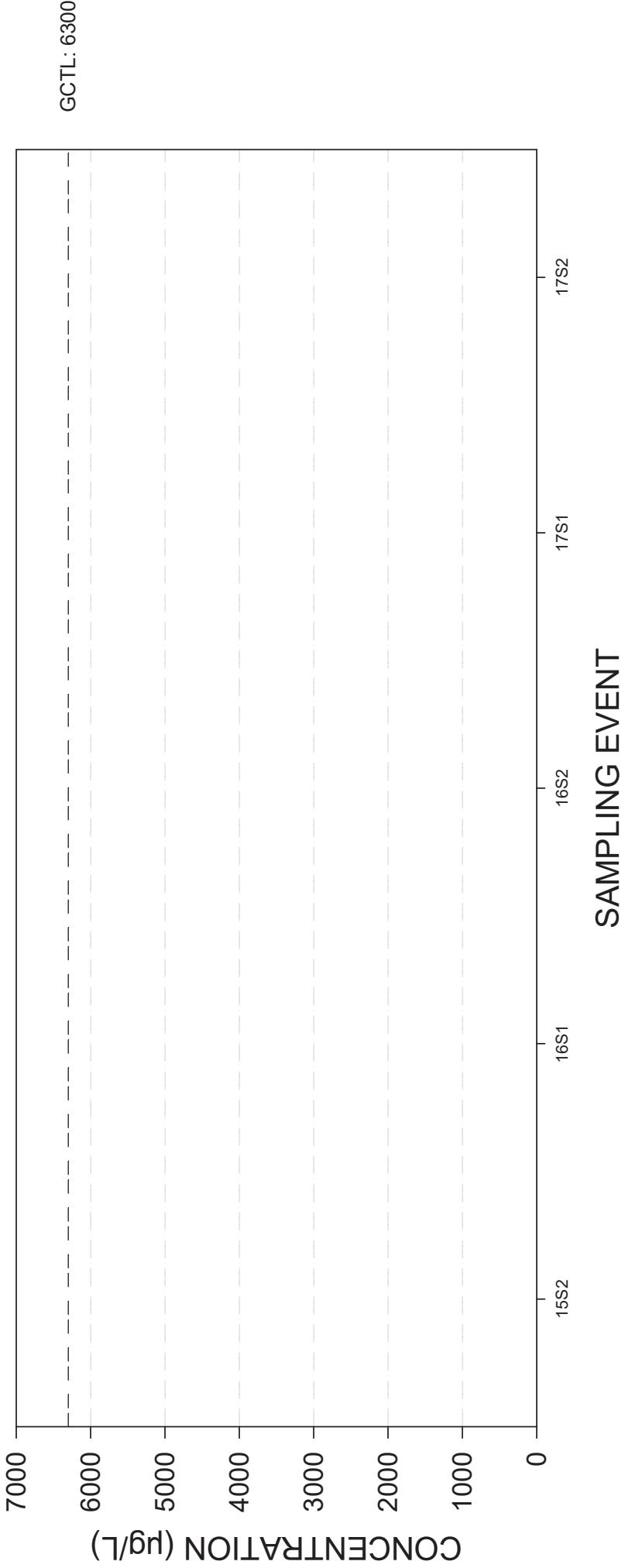
ACETONE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



ACETONE

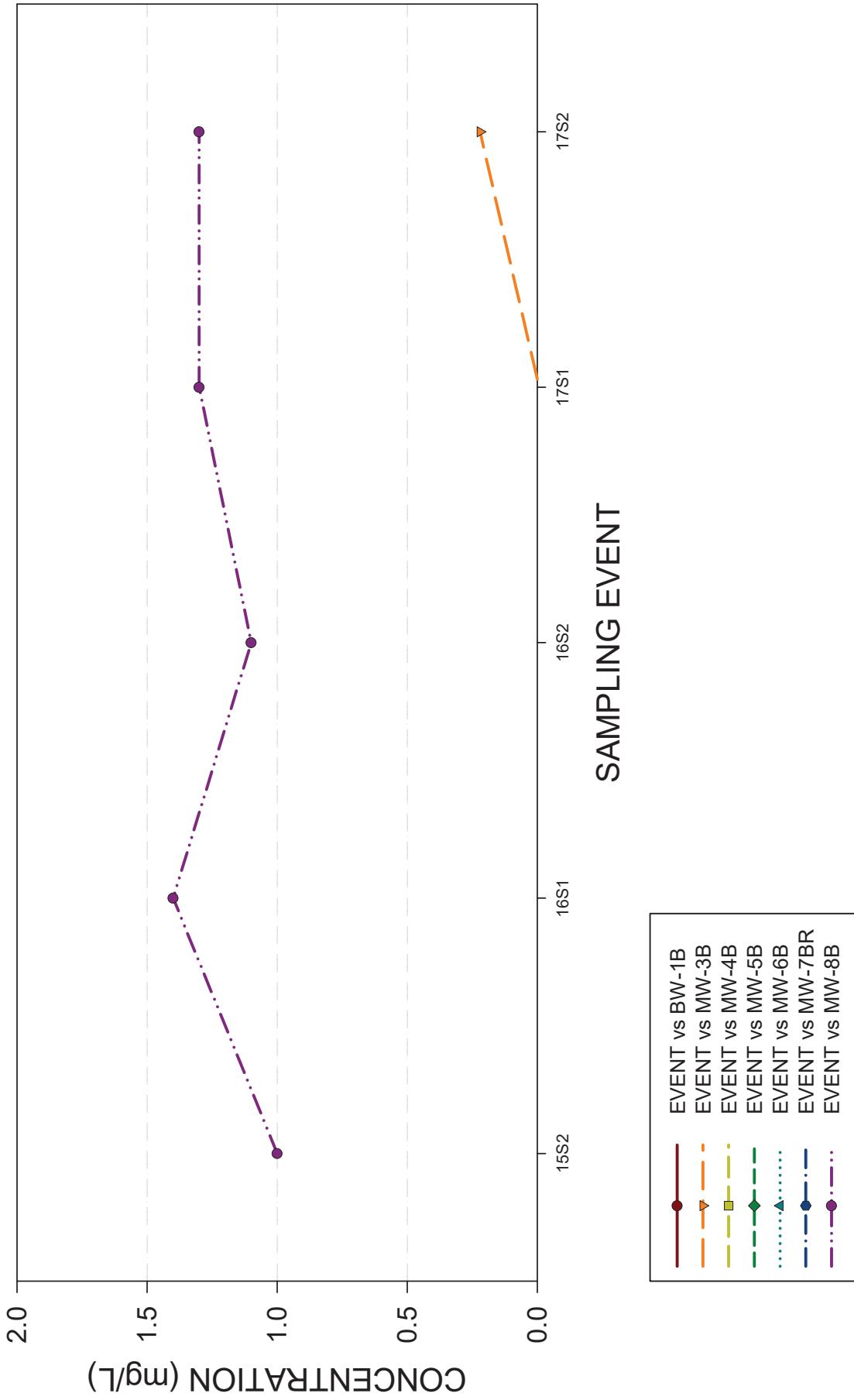
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



EVENT vs MW-9B	EVENT vs MW-10B
EVENT vs MW-17B	EVENT vs MW-18B
EVENT vs MW-18B	EVENT vs MW-20B
EVENT vs SUPPLY WELL	Plot 1 GCTL: 6300

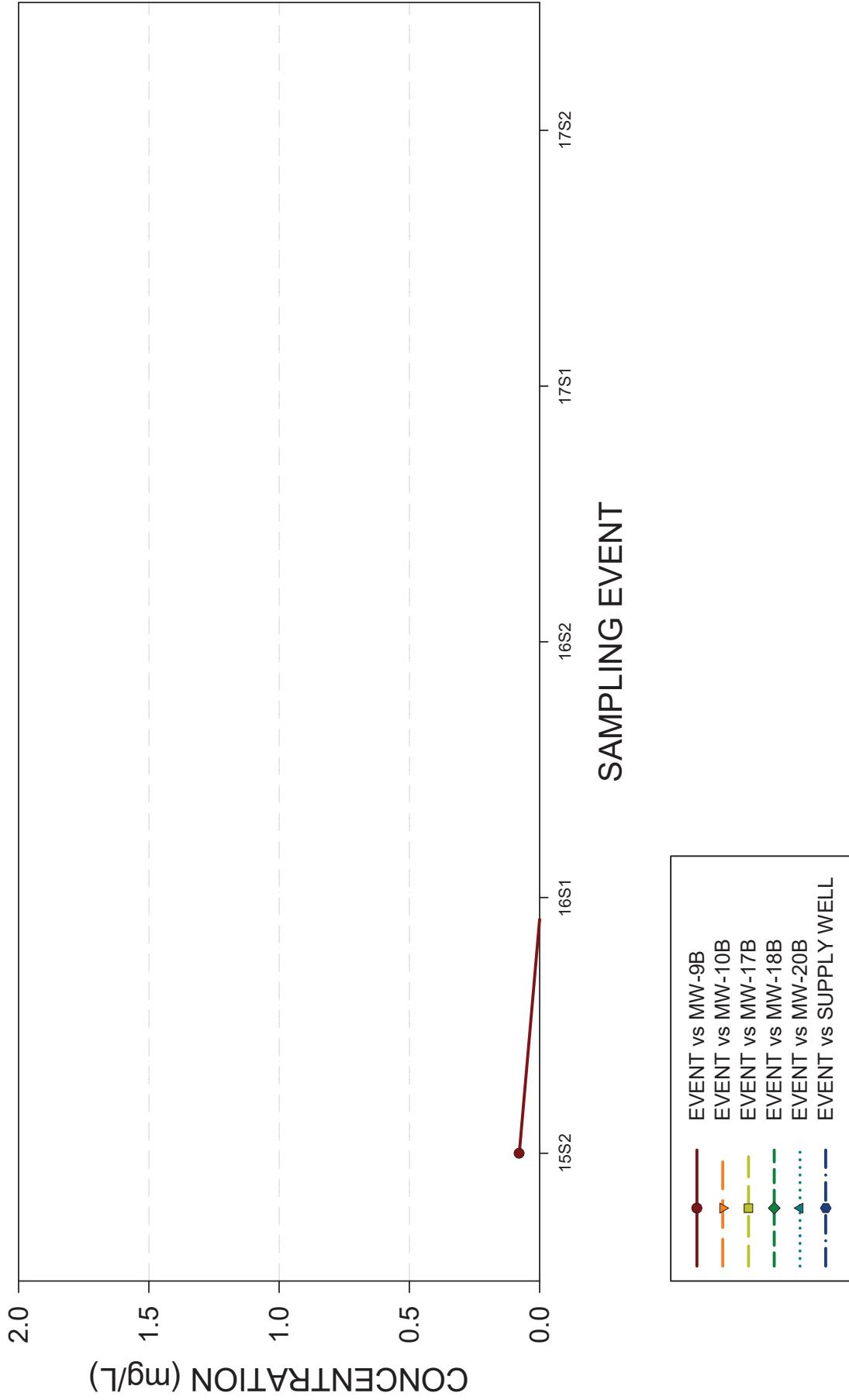
AMMONIA AS NITROGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



AMMONIA AS NITROGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



BARIUM

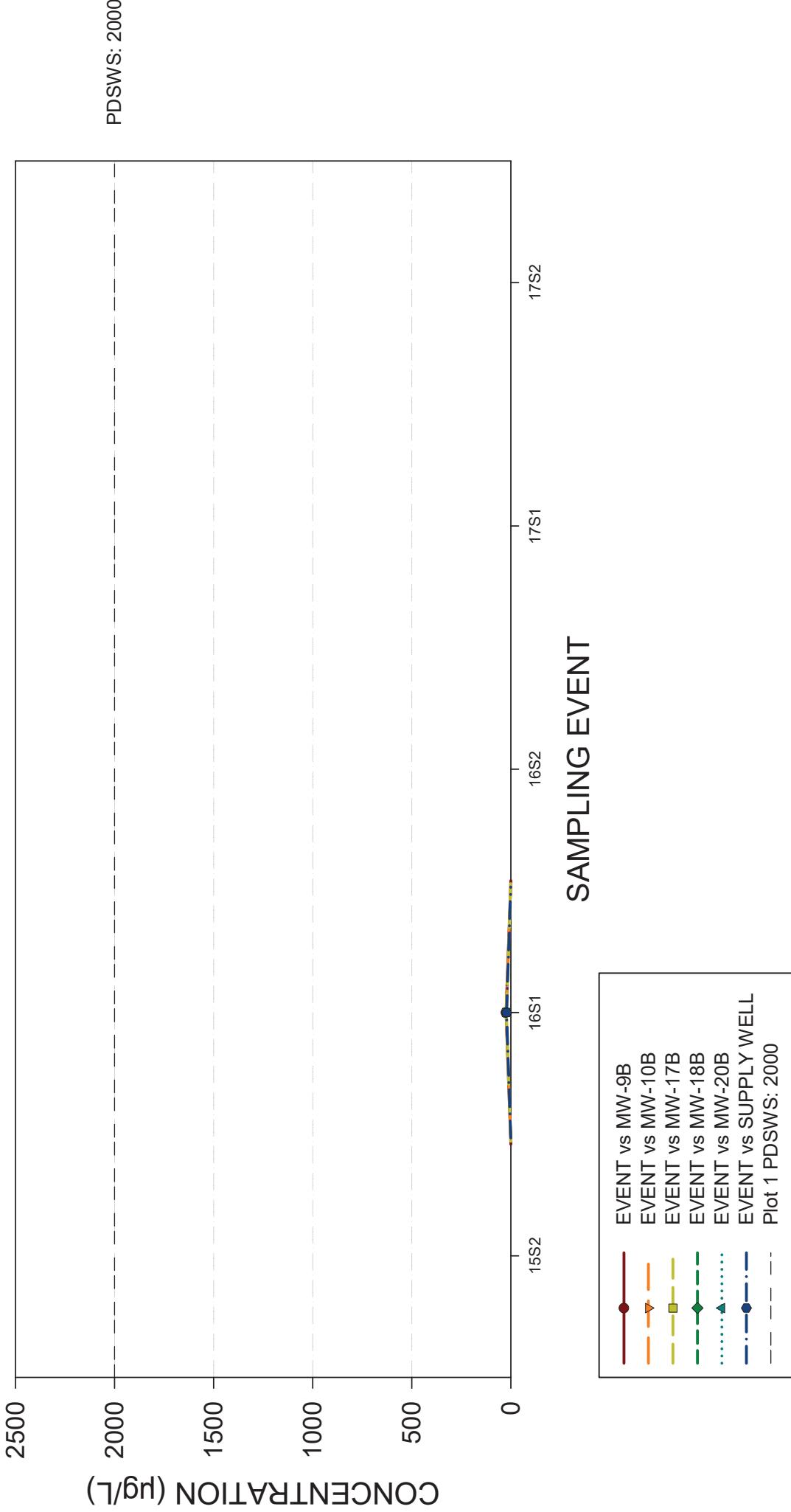
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH

CONCENTRATION ($\mu\text{g/L}$)



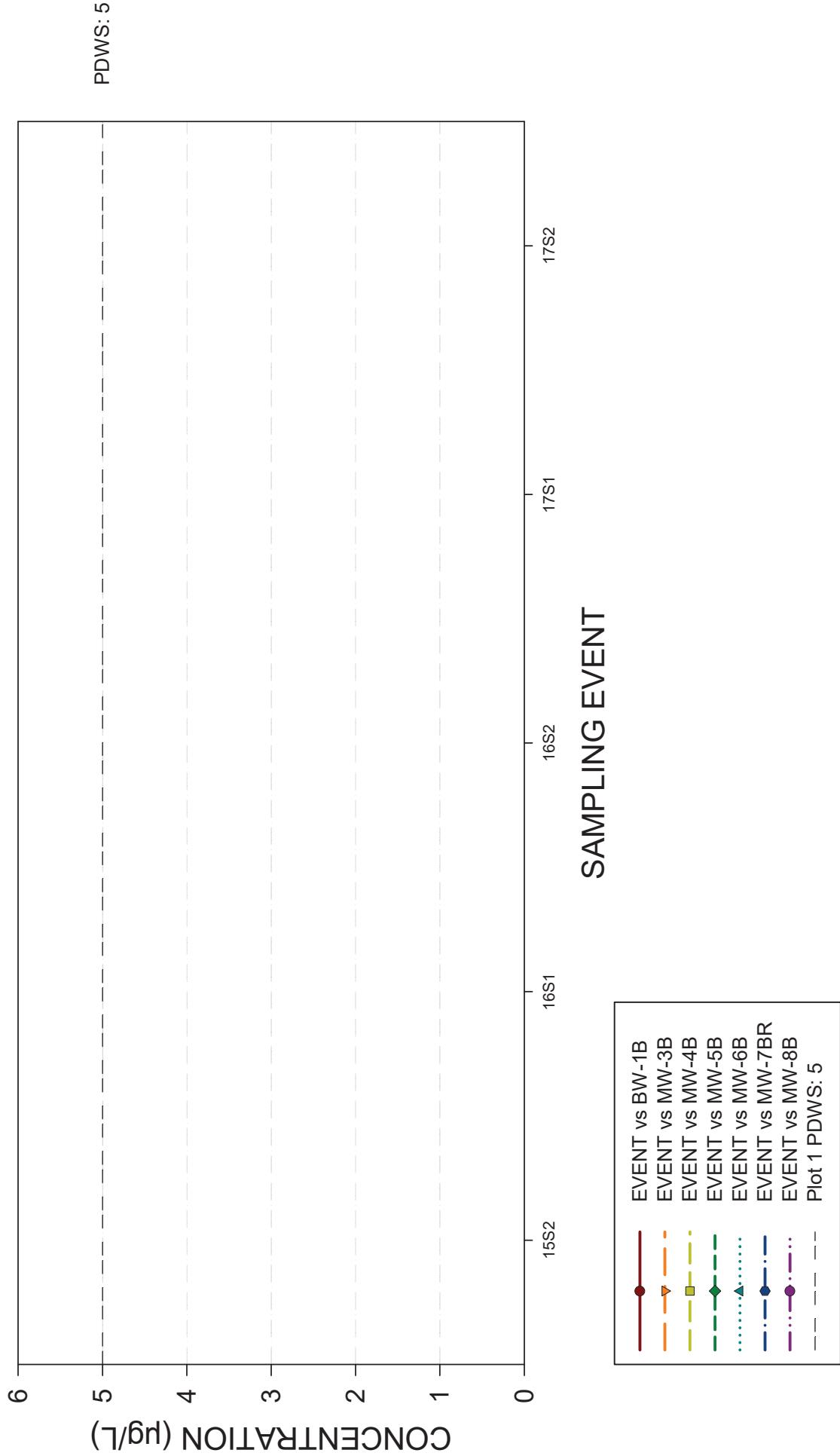
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ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



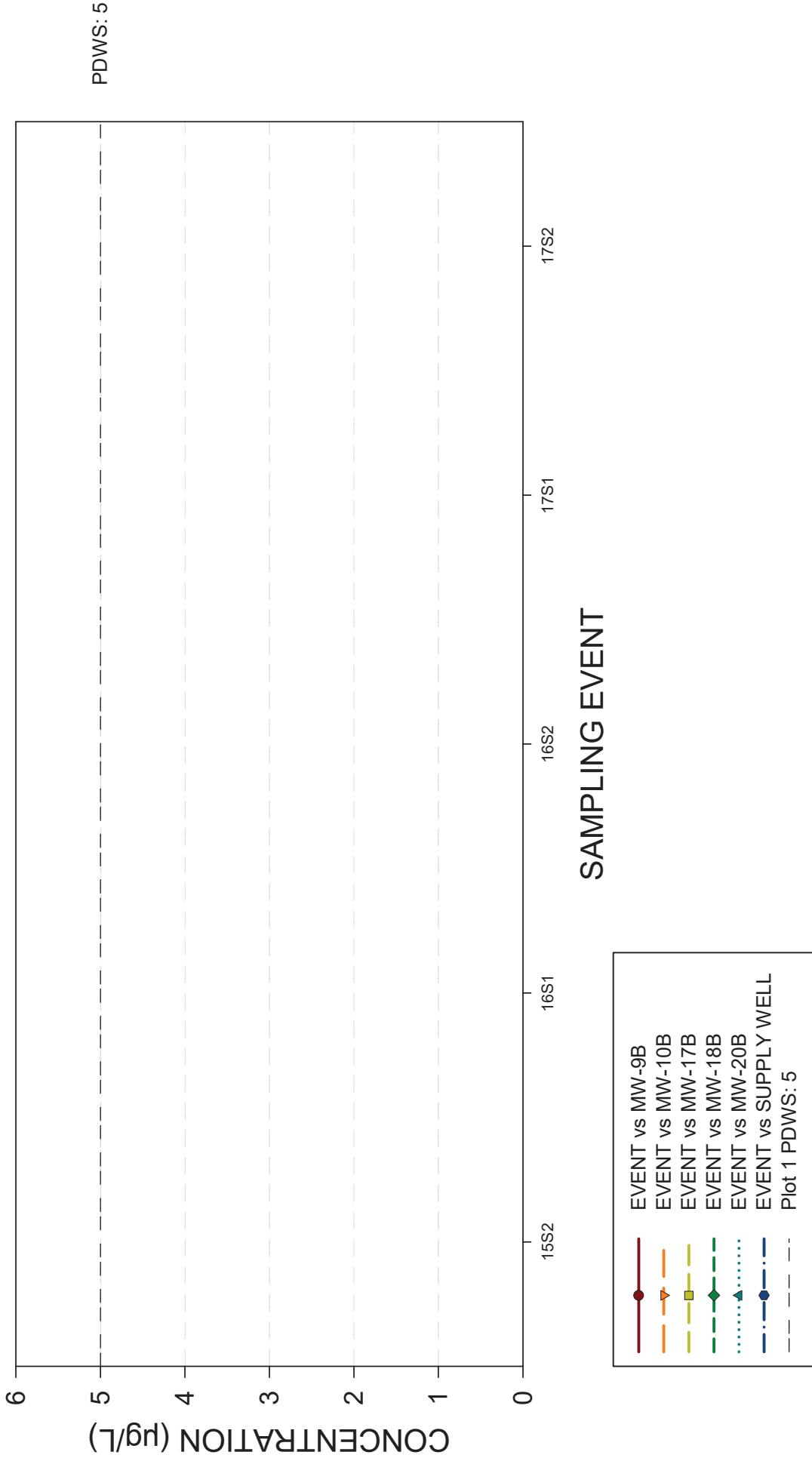
CADMUM

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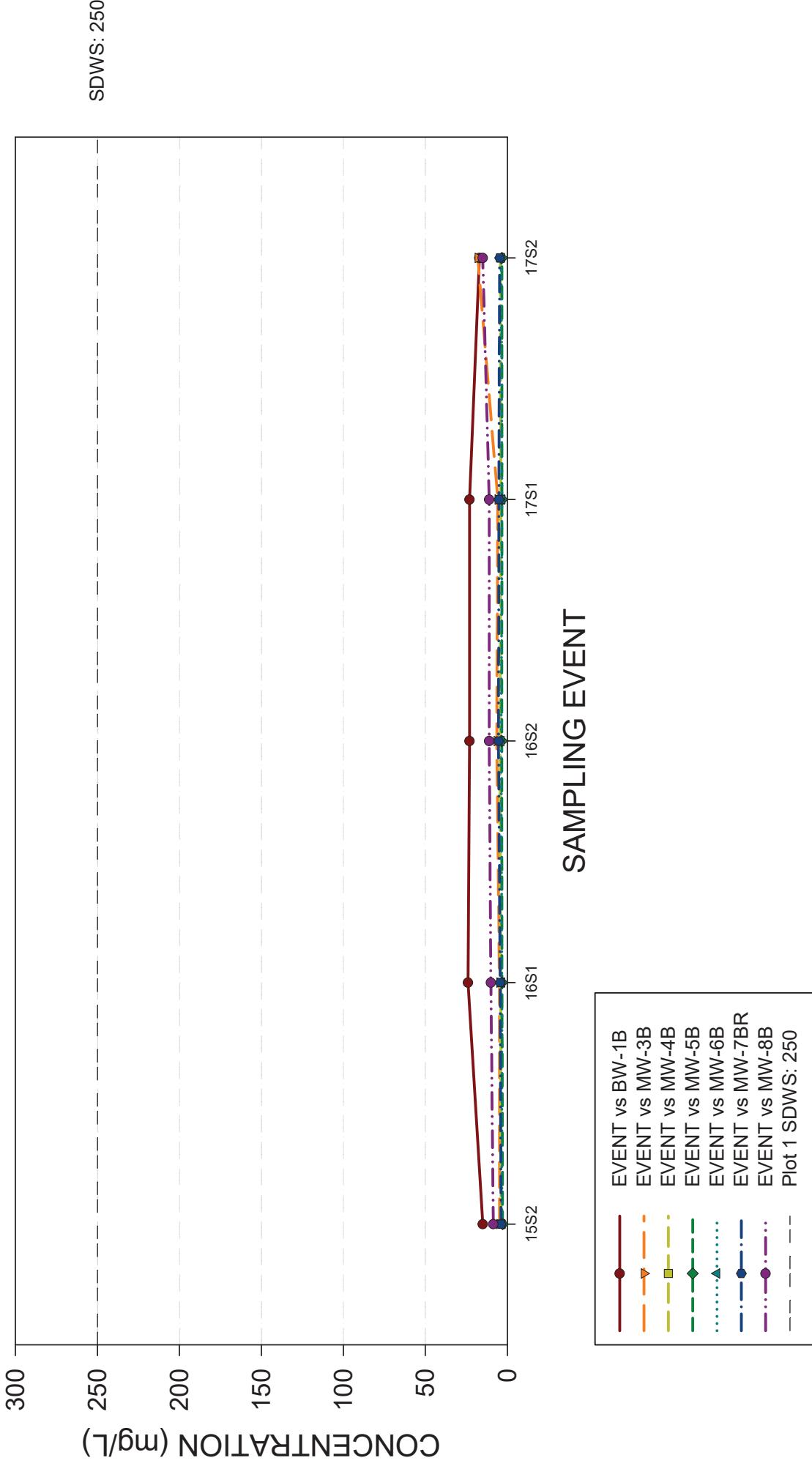
CADMIUM

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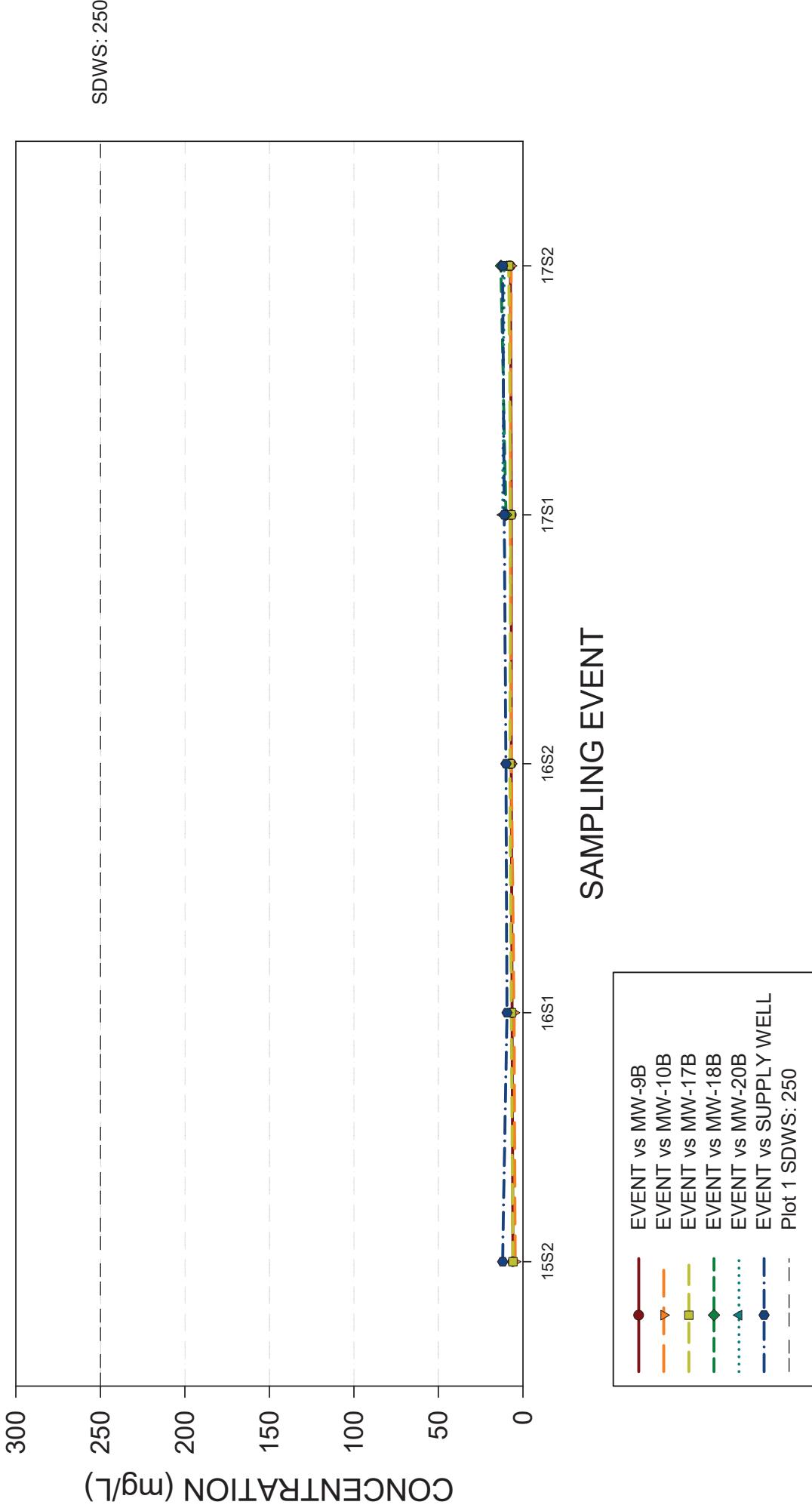
CHLORIDE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



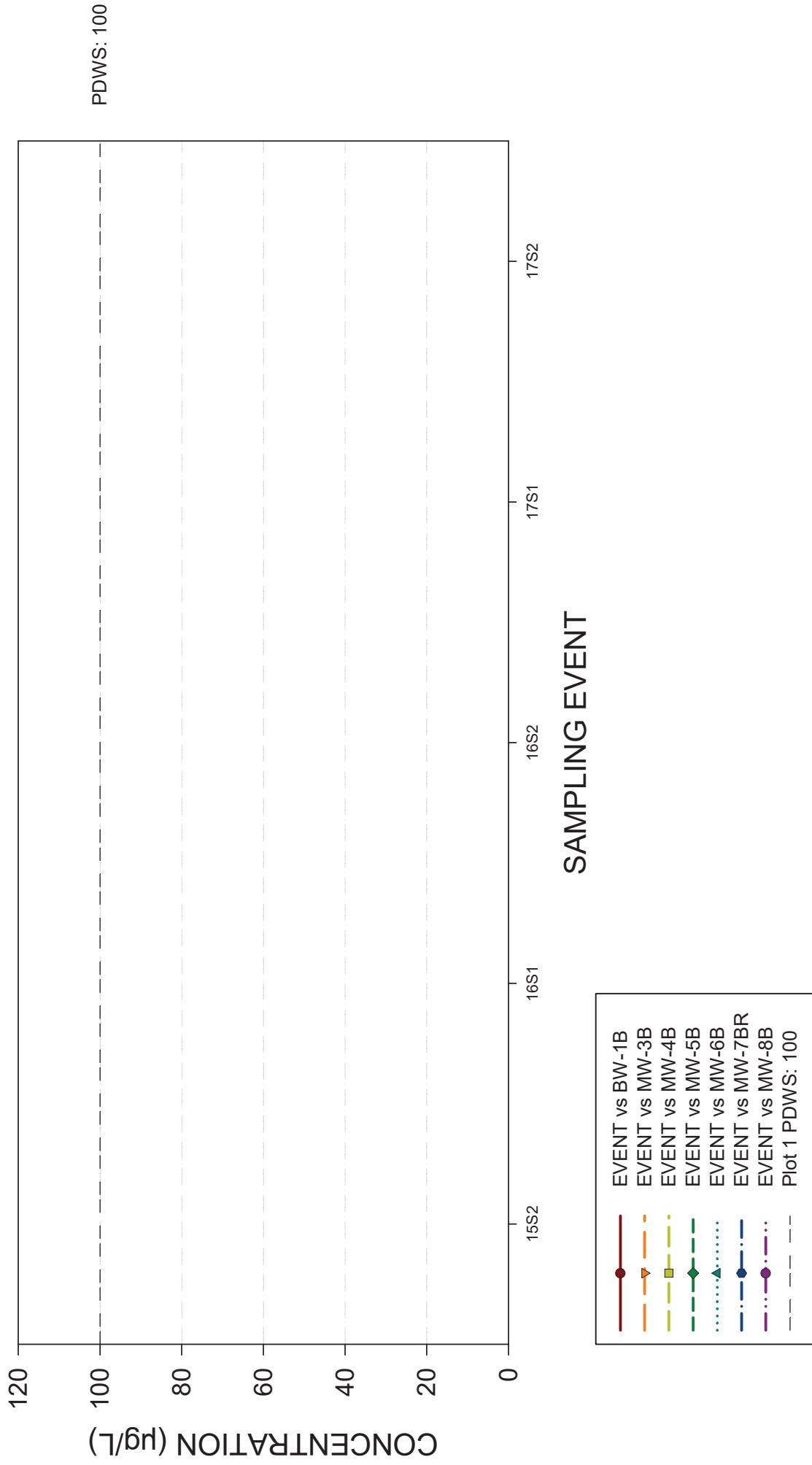
CHLORIDE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



CHROMIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



CHROMIUM

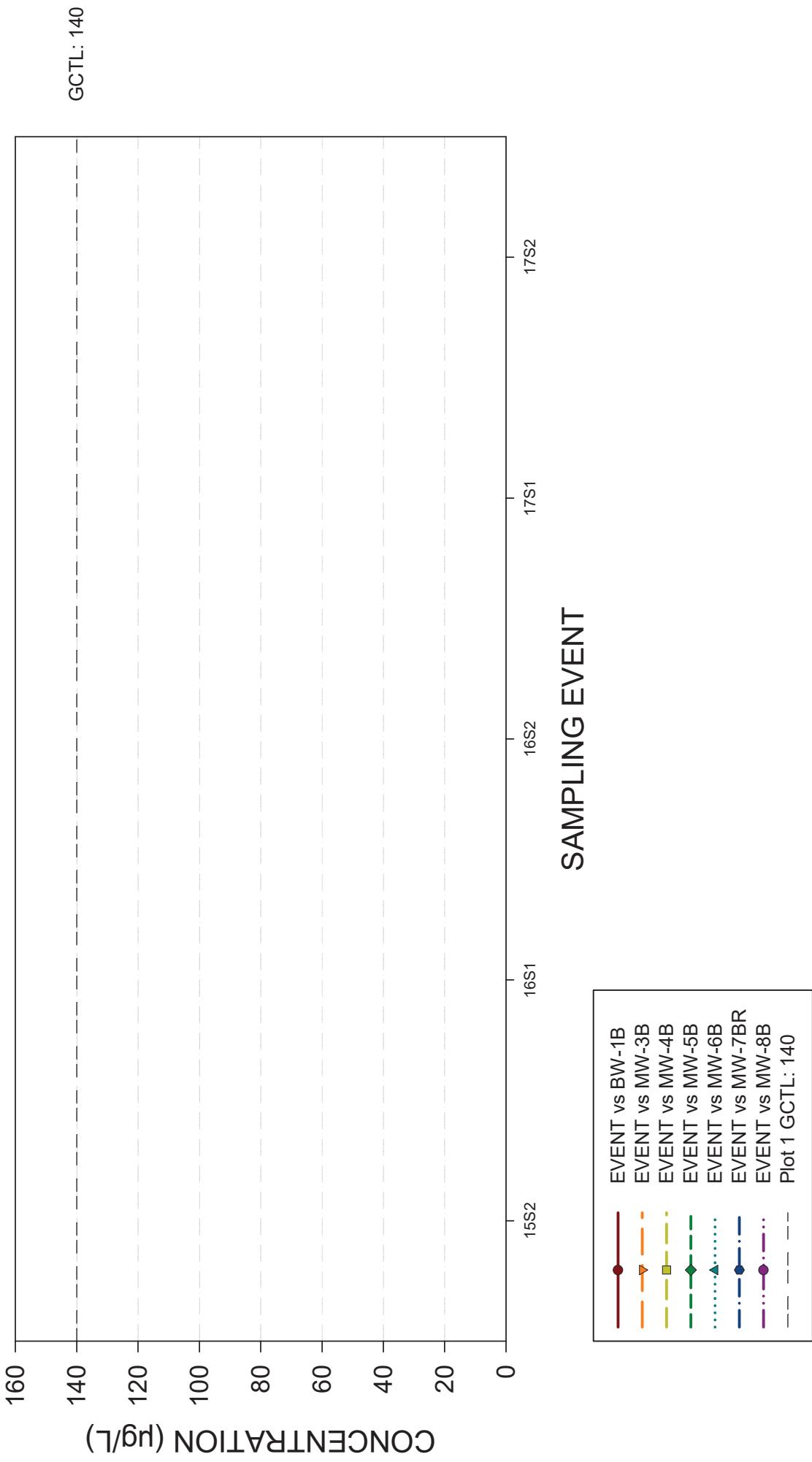
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PDWS: 100



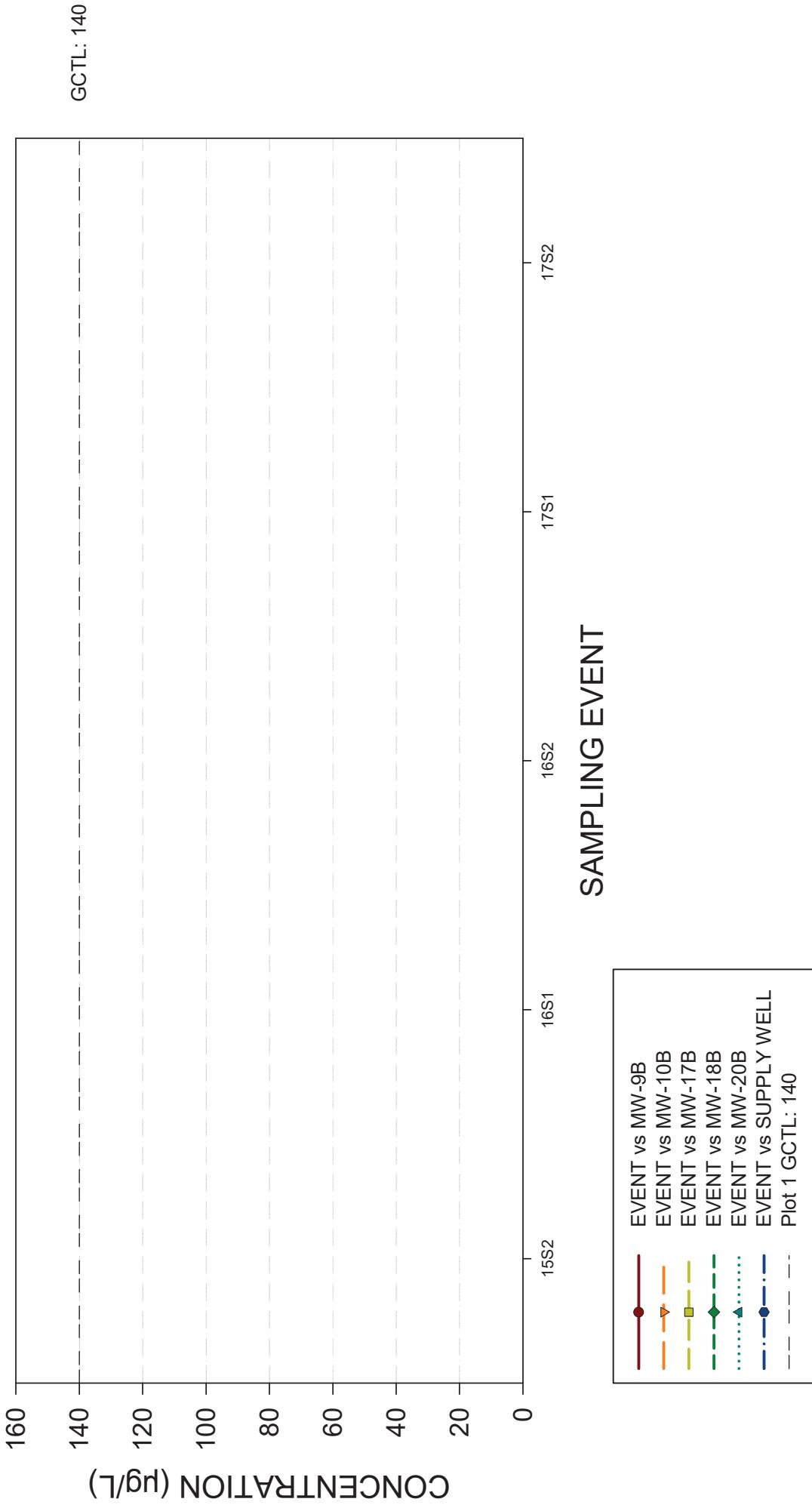
COBALT

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



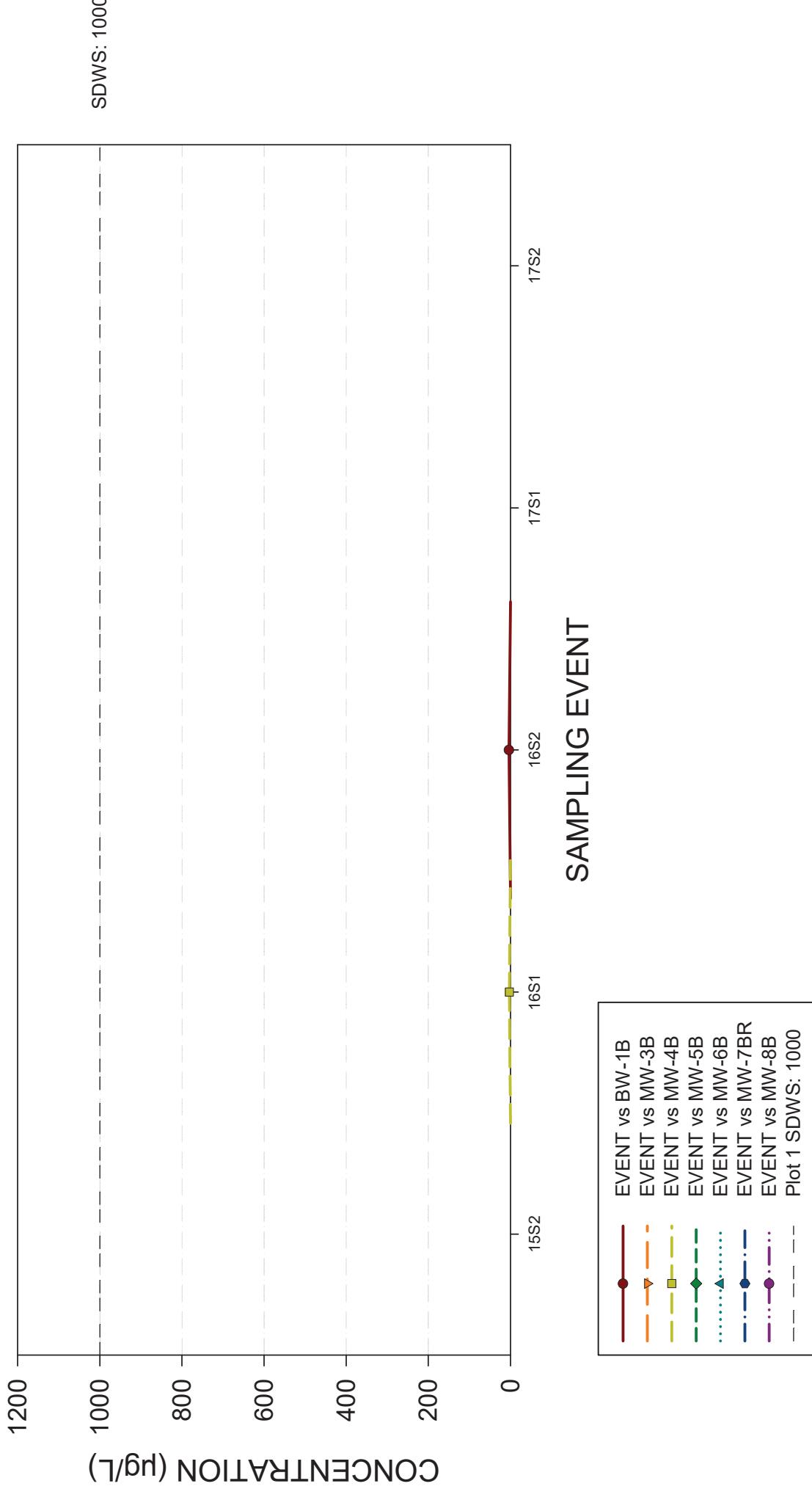
COBALT

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



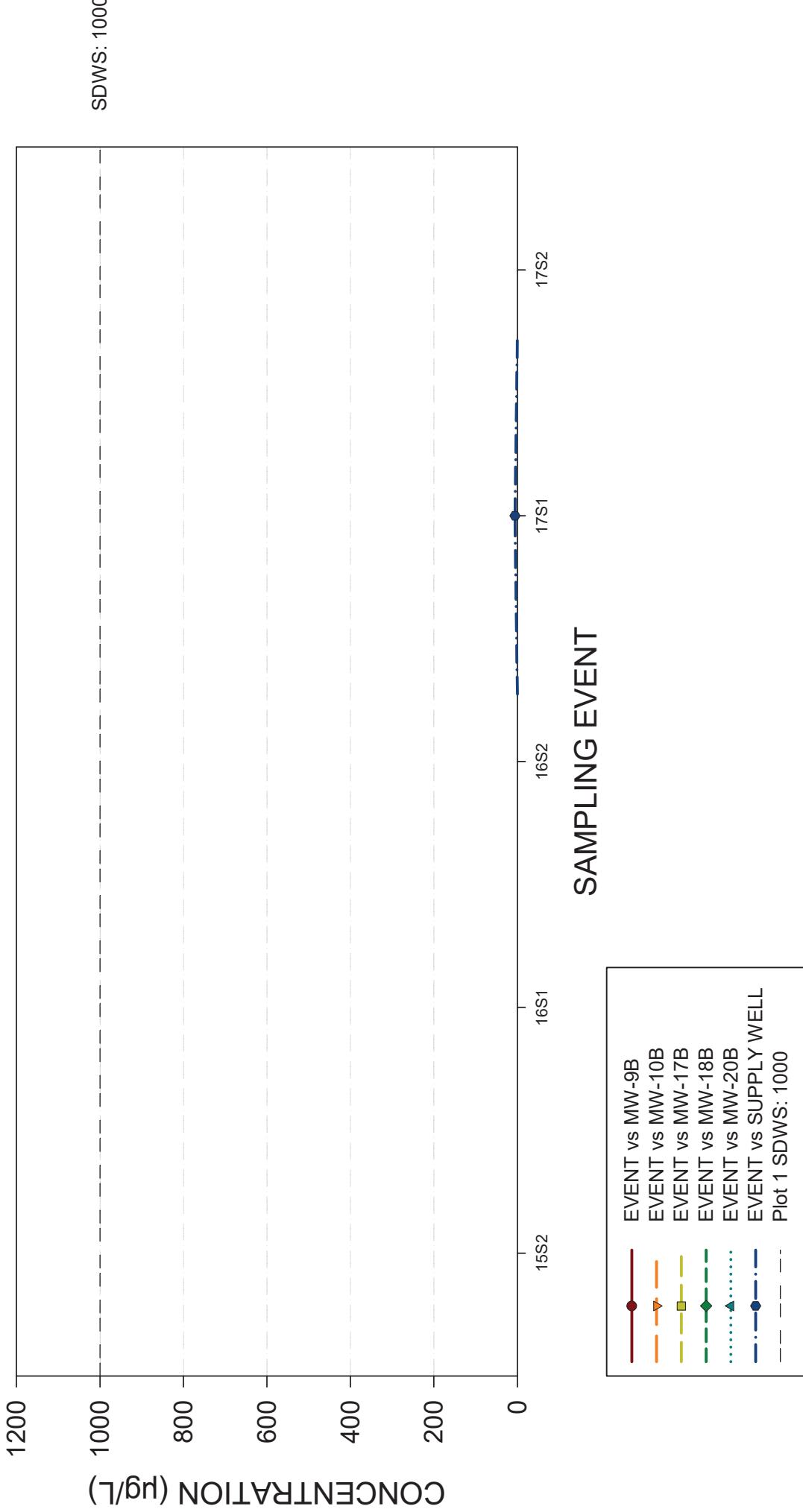
COPPER

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



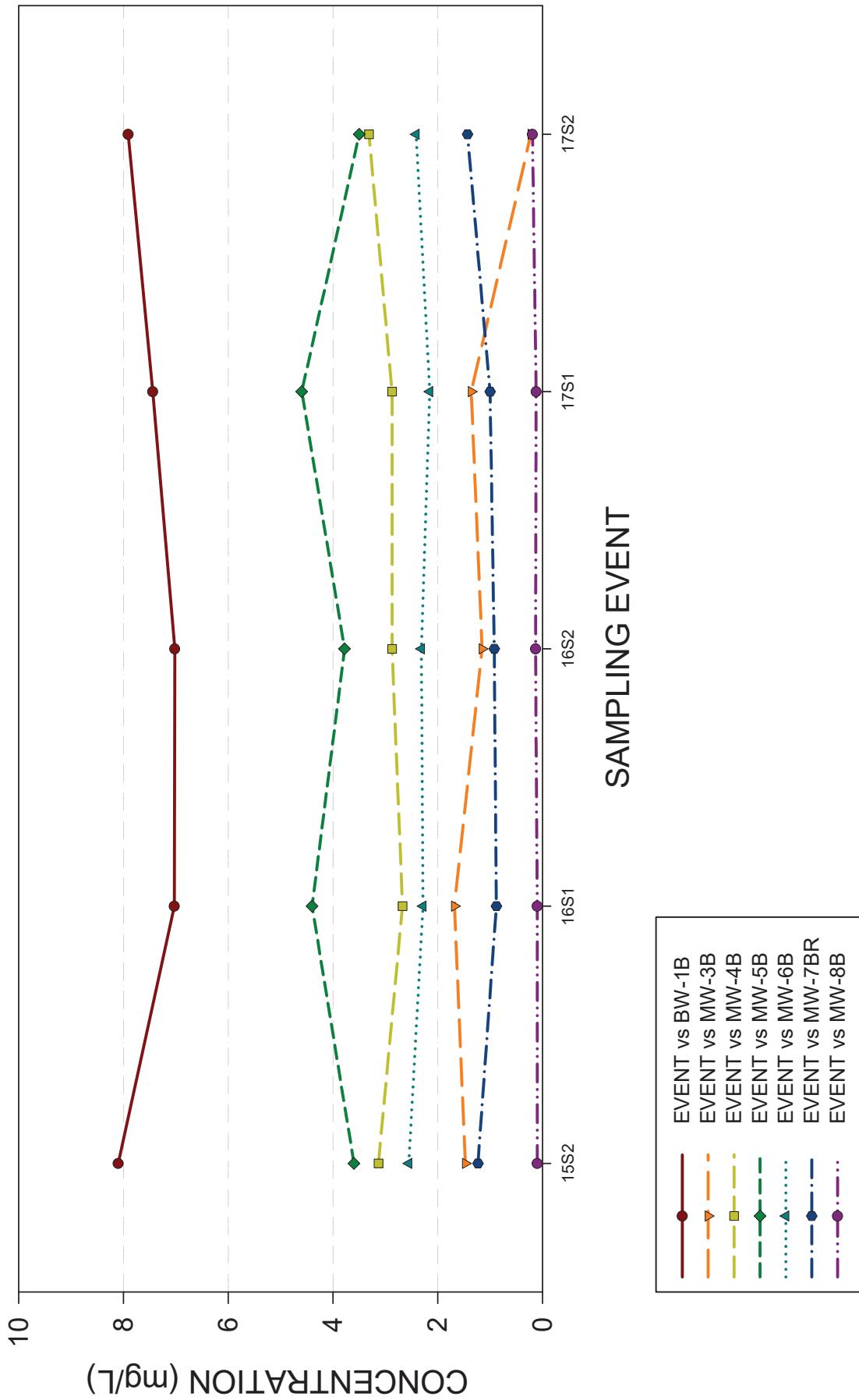
COPPER

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



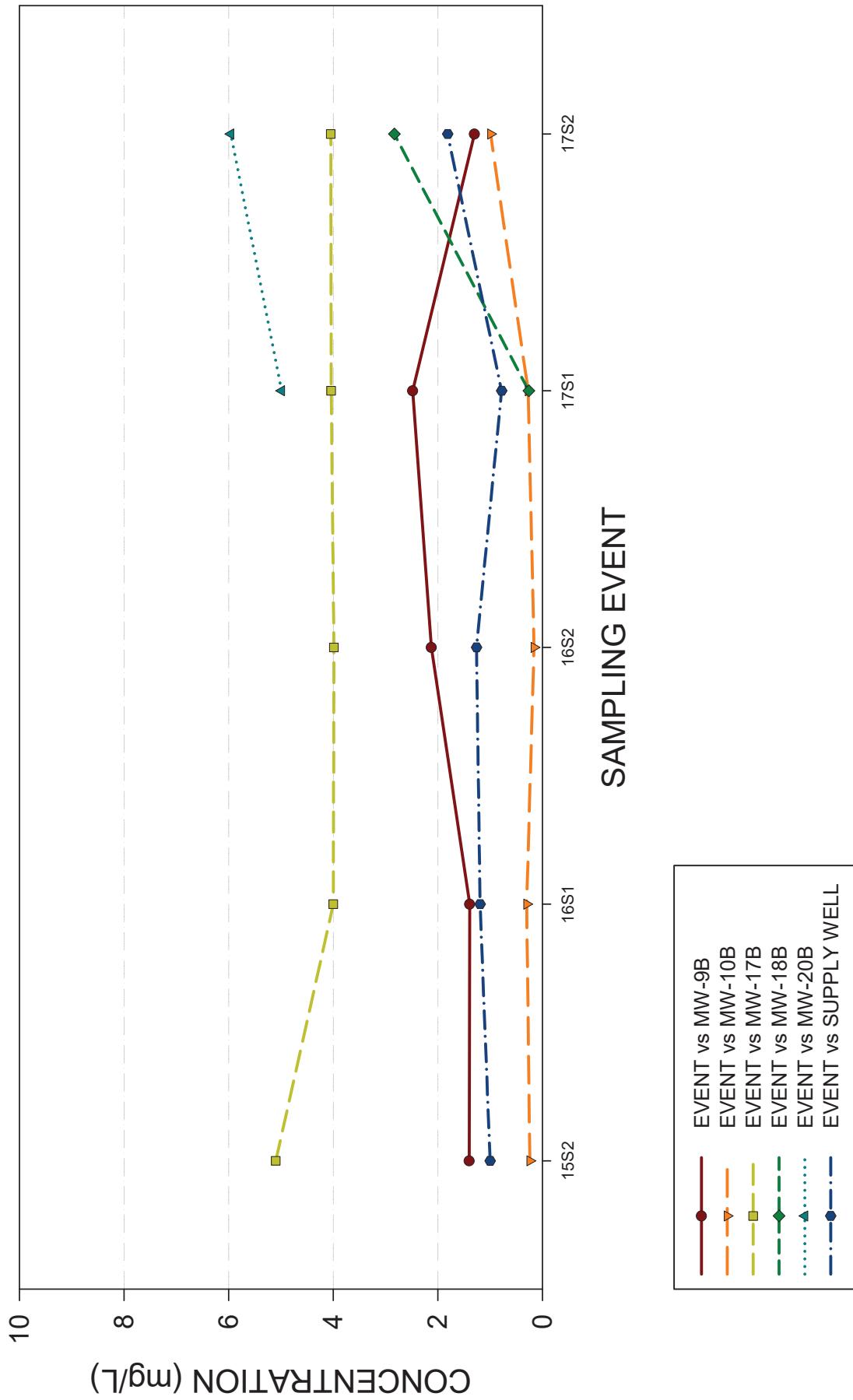
DISSOLVED OXYGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



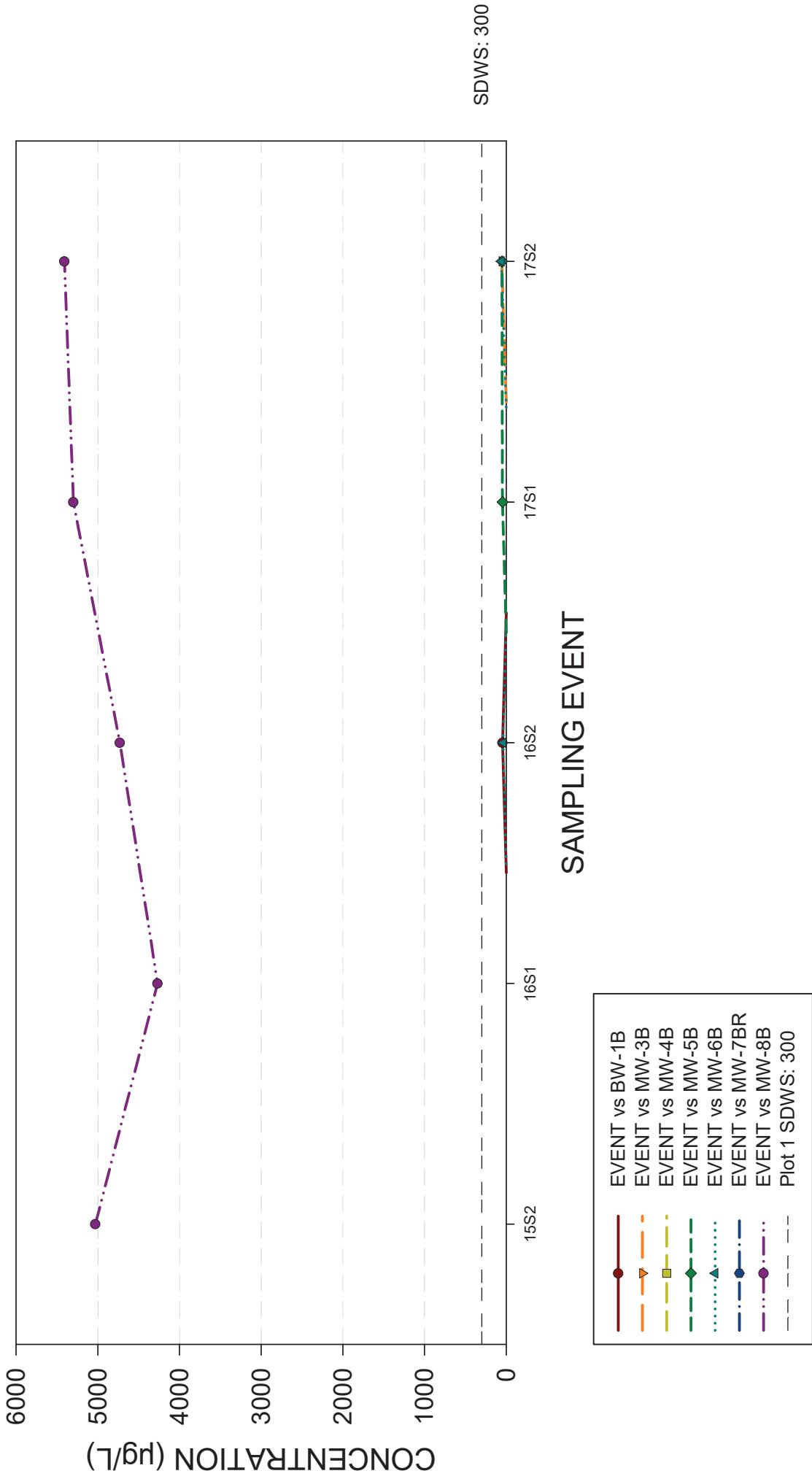
DISSOLVED OXYGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



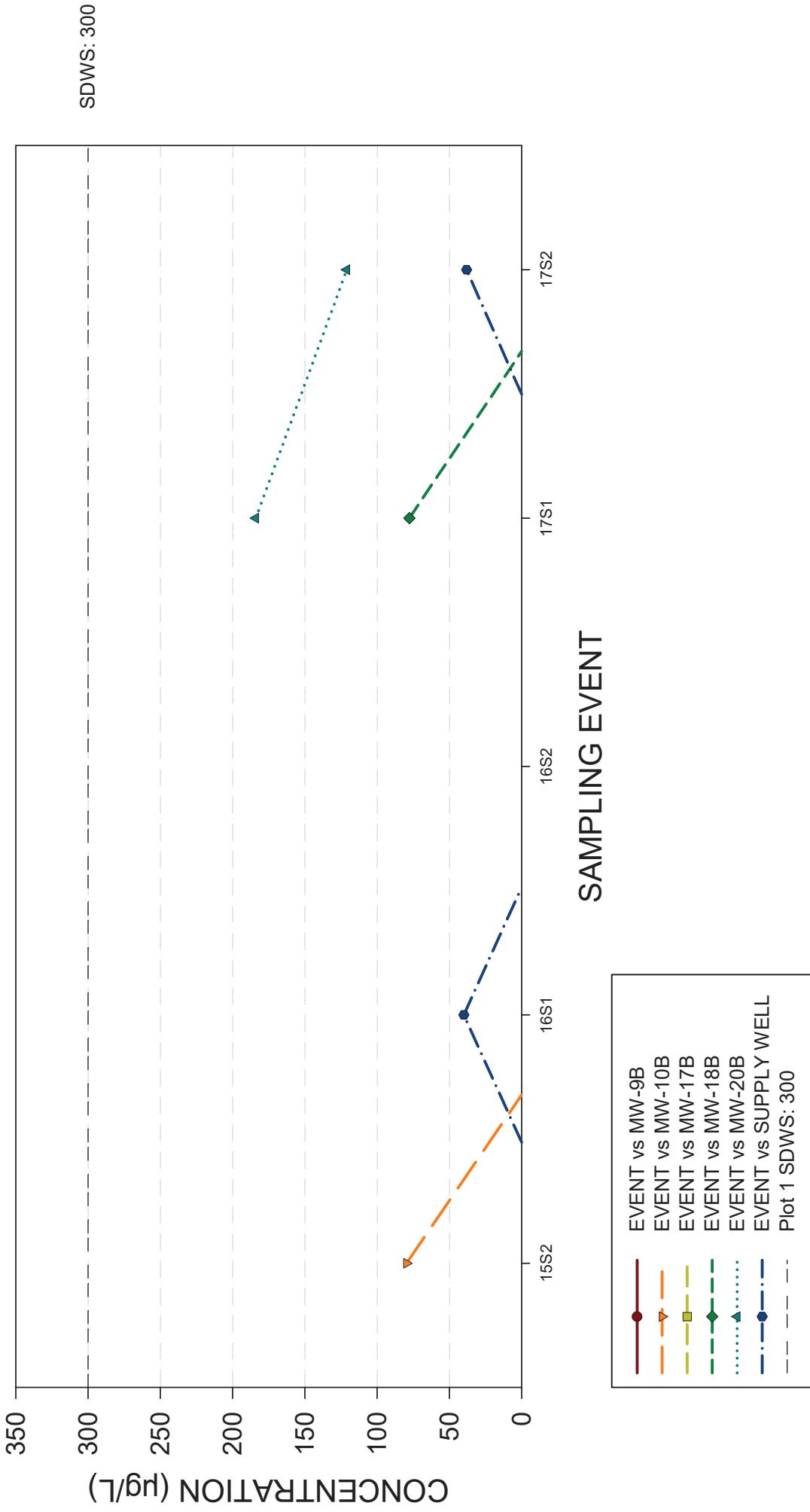
IRON

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



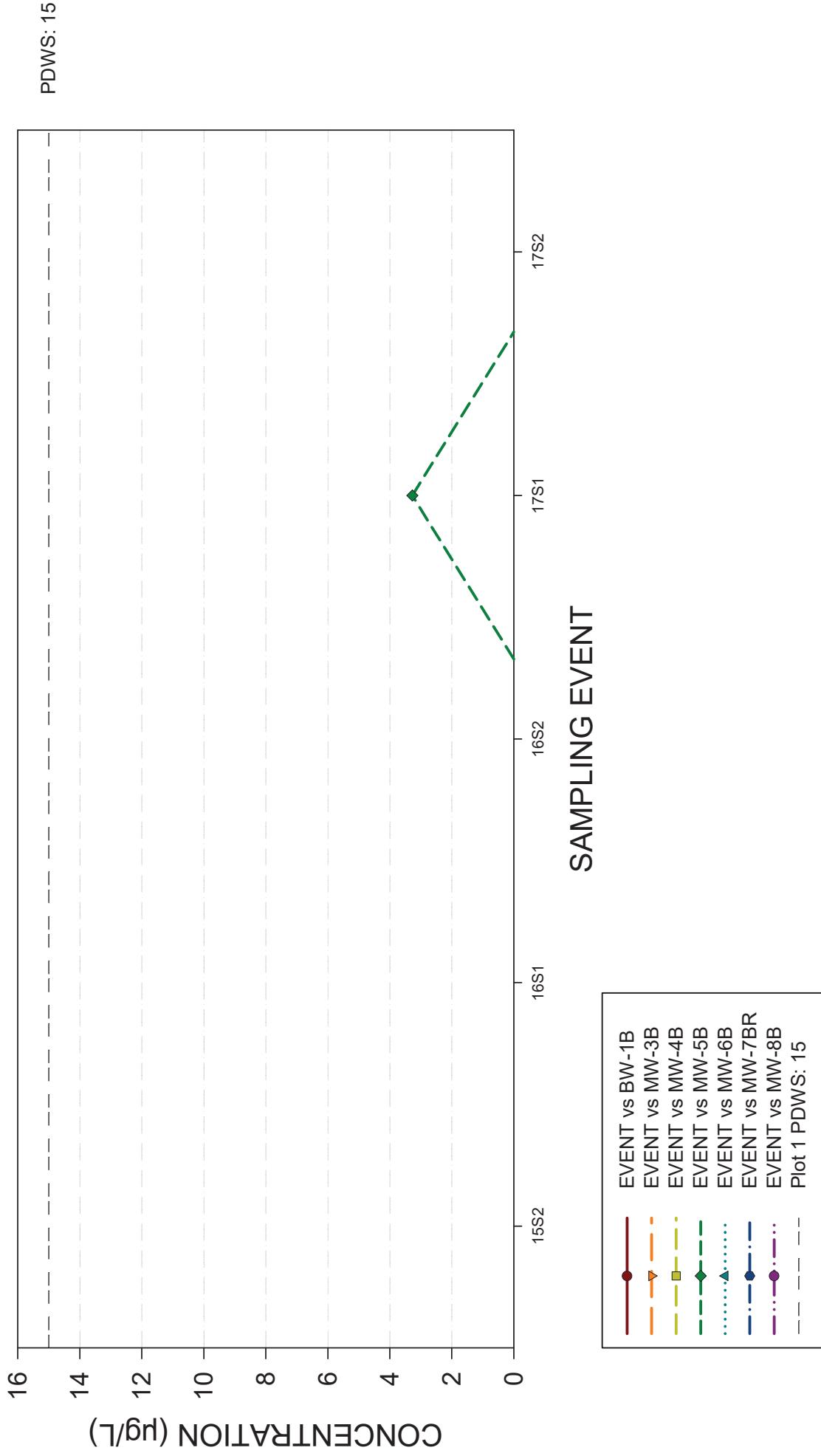
IRON

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



LEAD

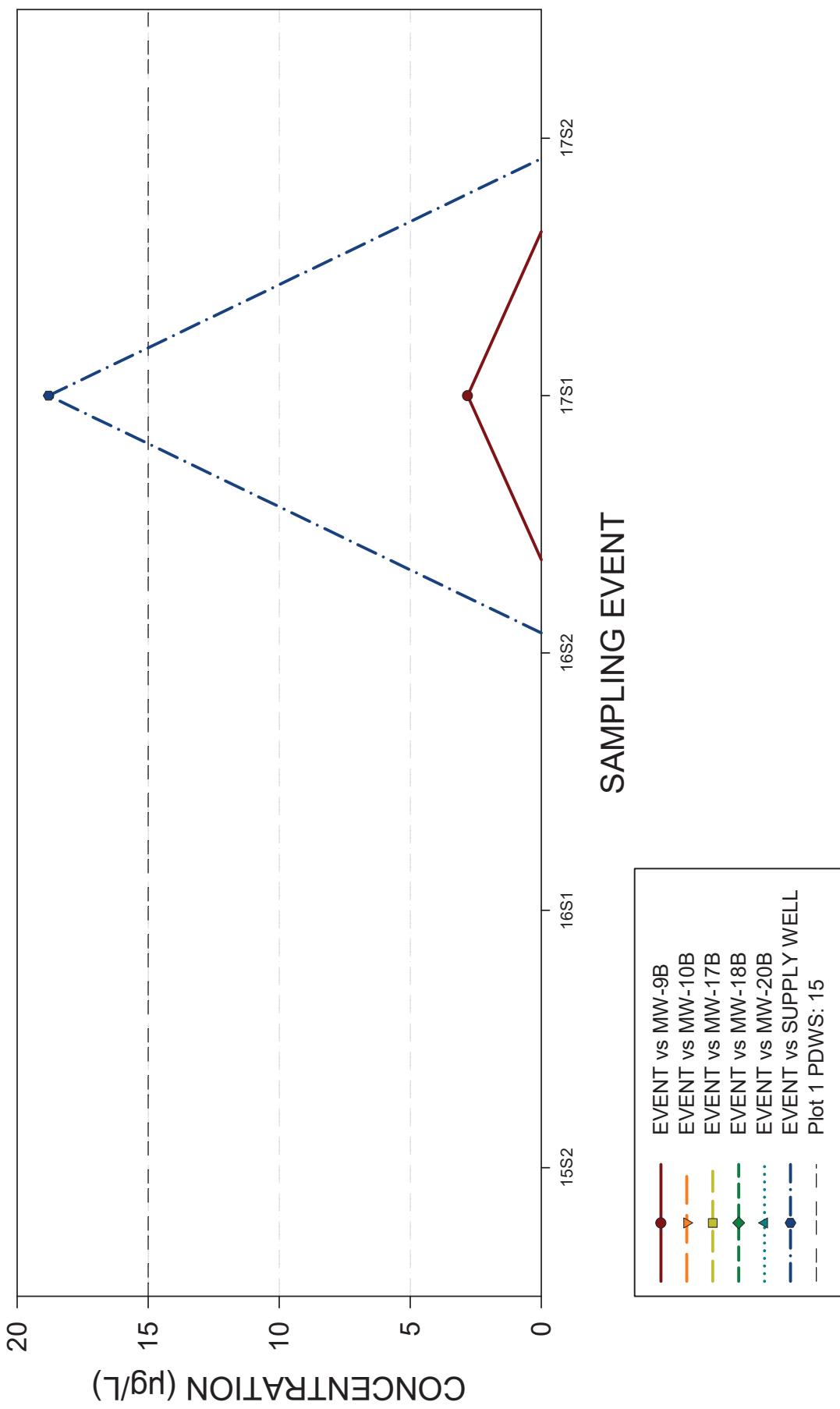
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



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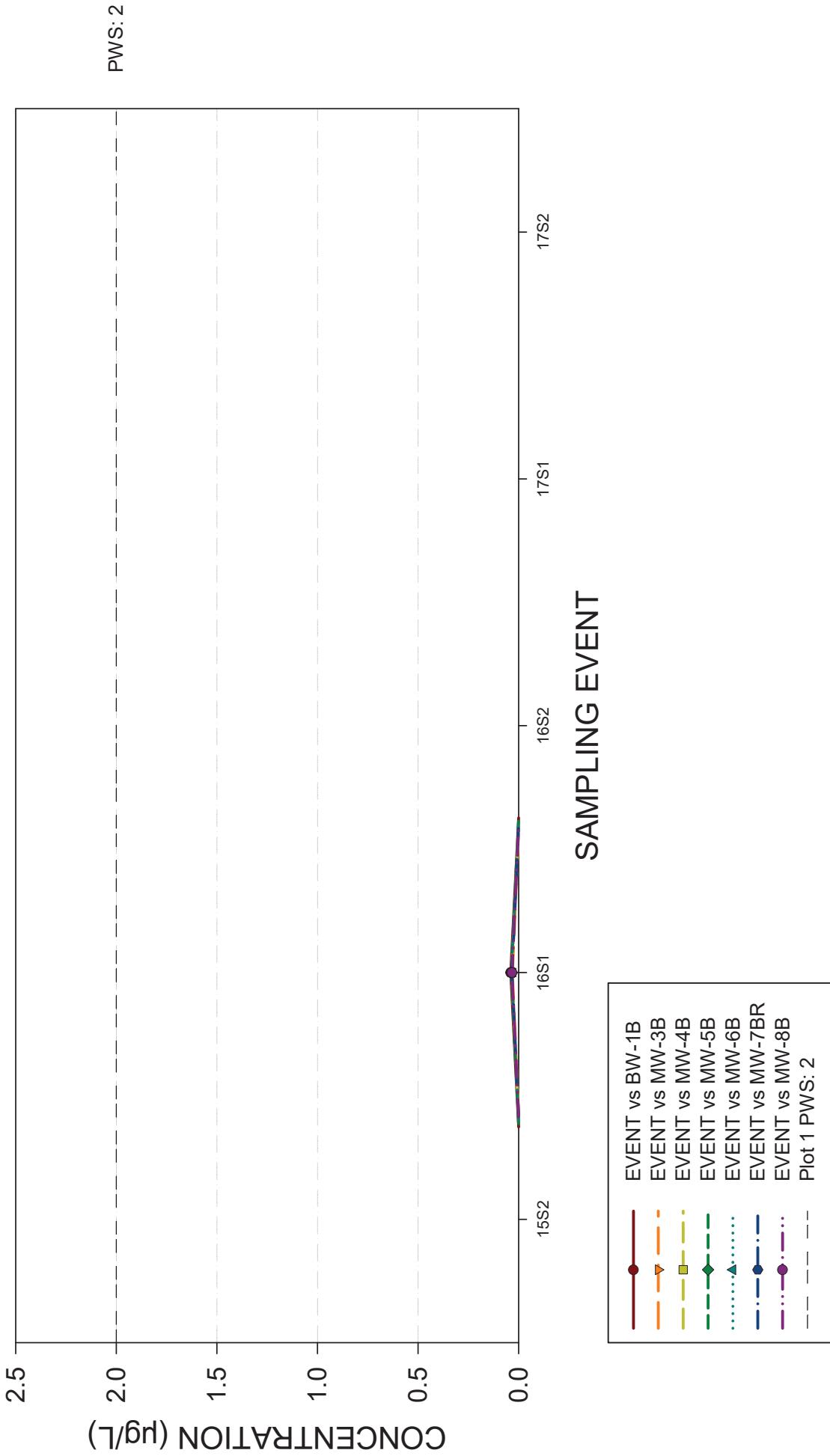
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH

PDWS: 15



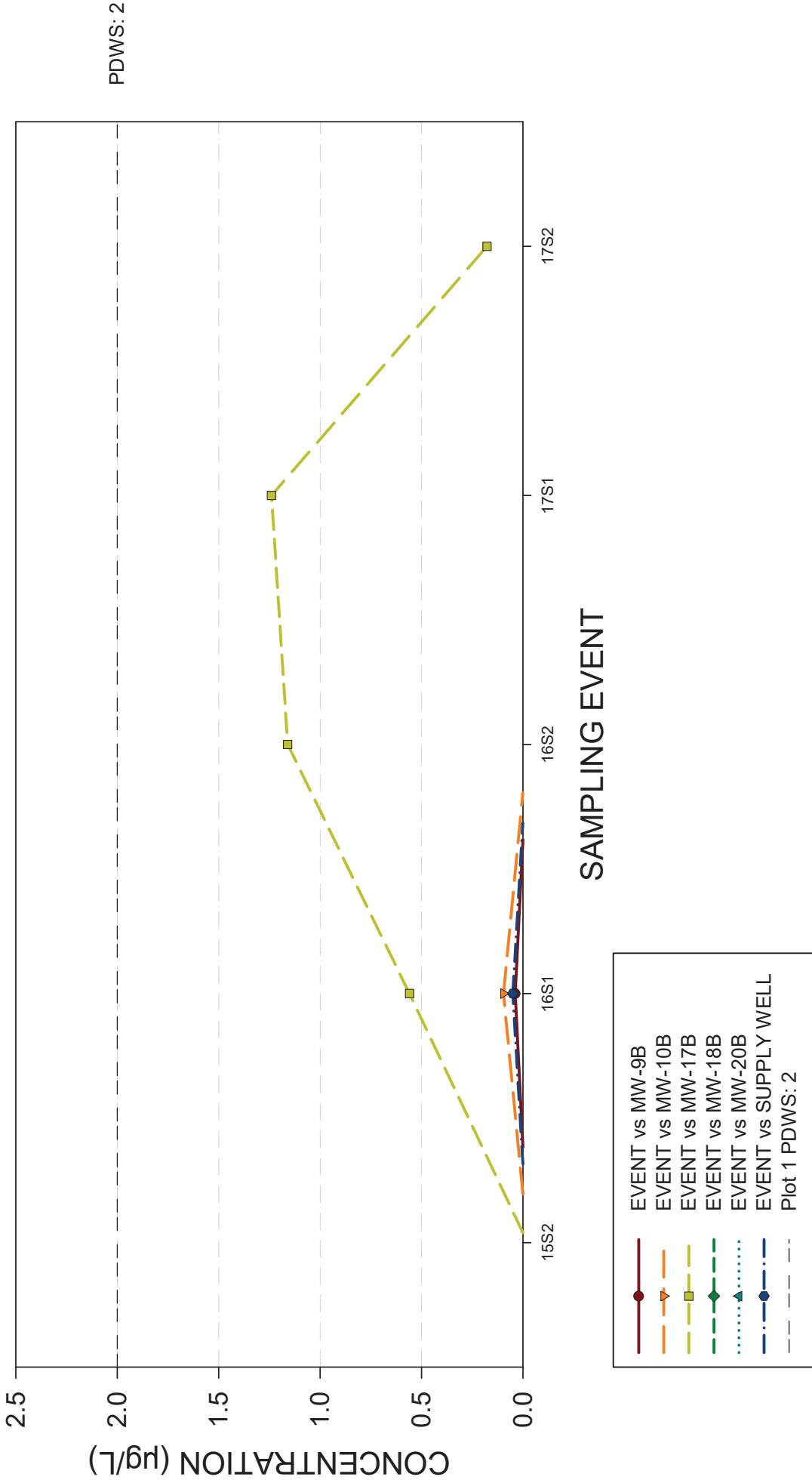
MERCURY

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



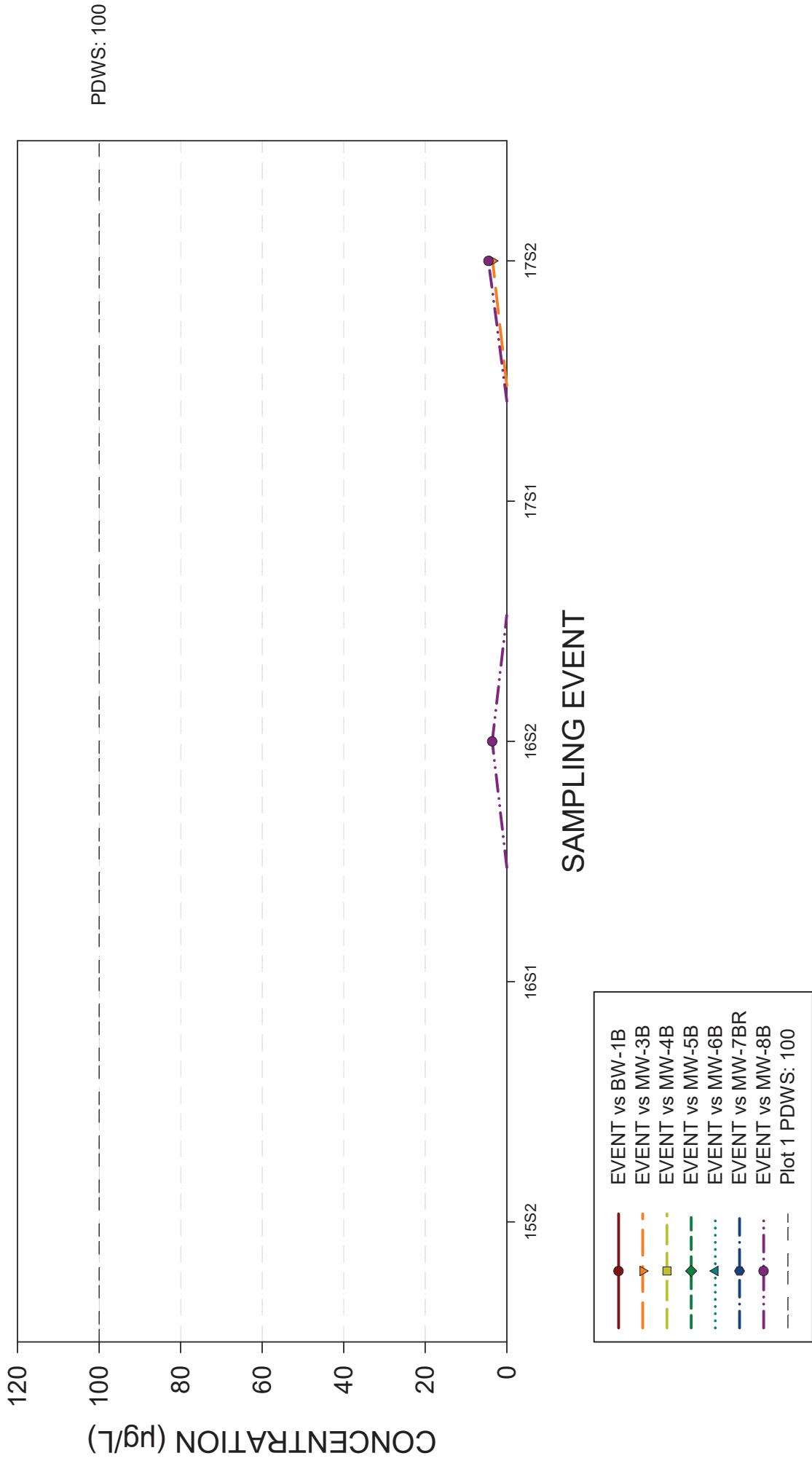
MERCURY

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



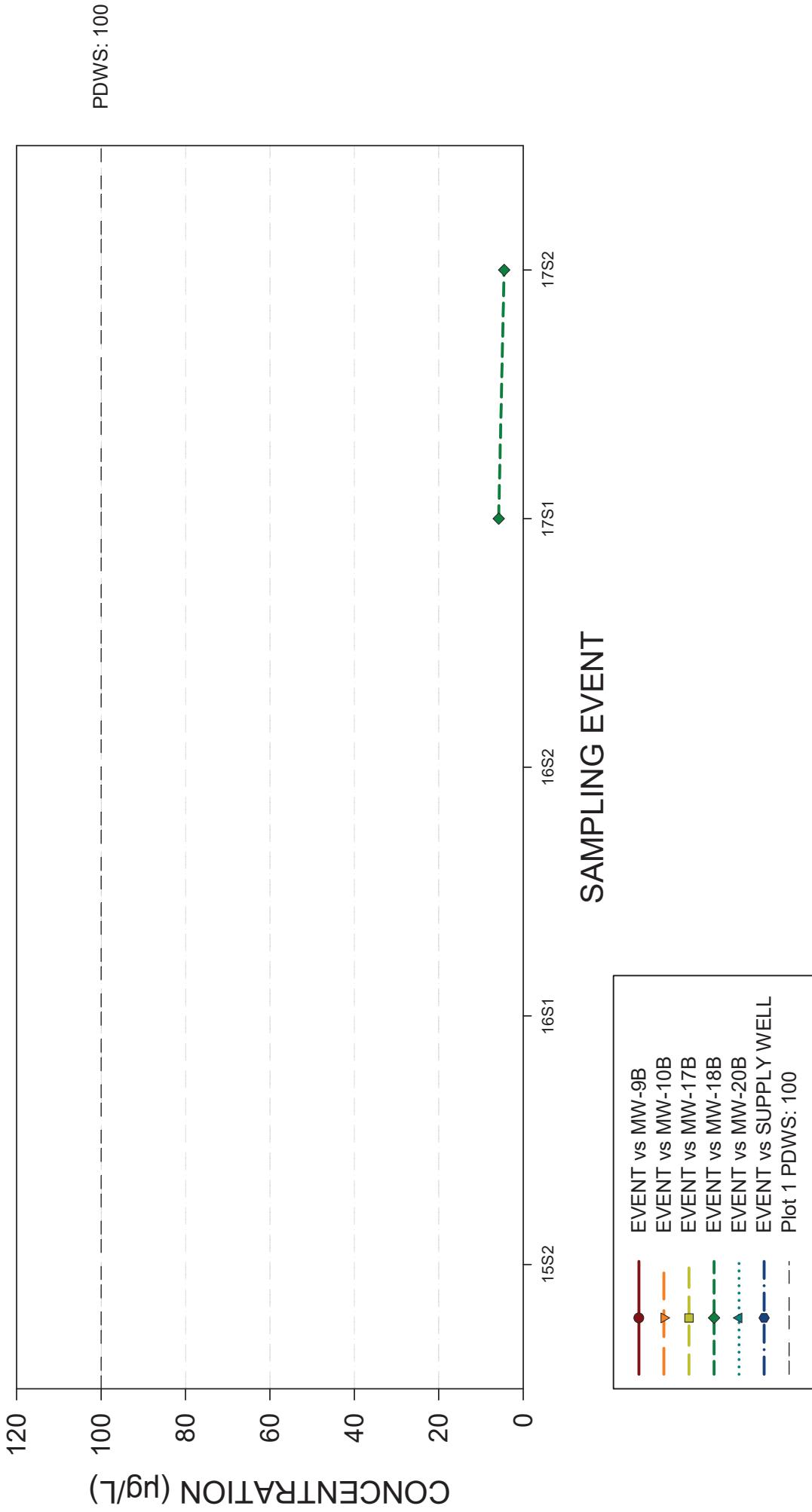
NICKEL

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



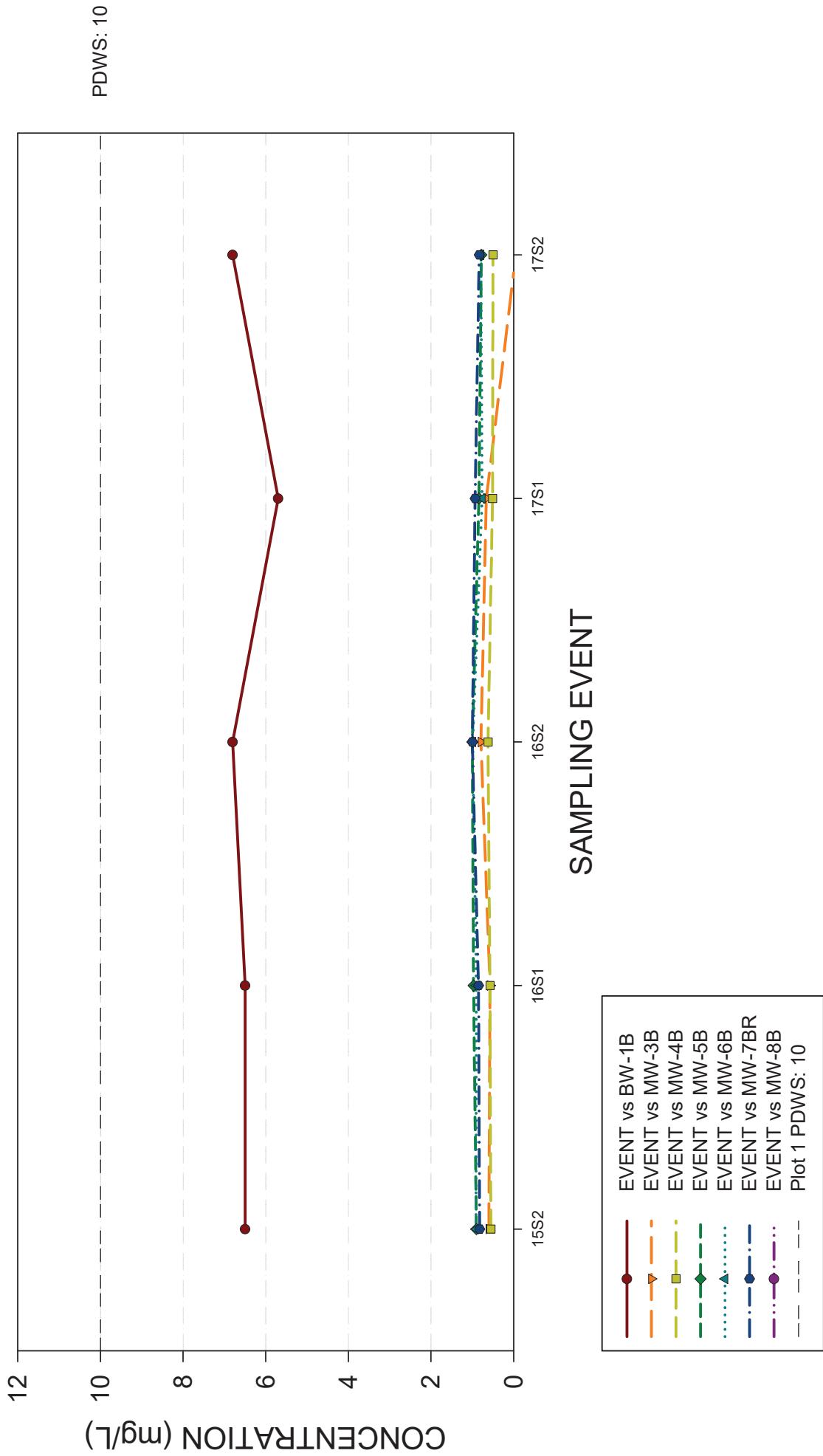
NICKEL

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



NITRATE AS NITROGEN

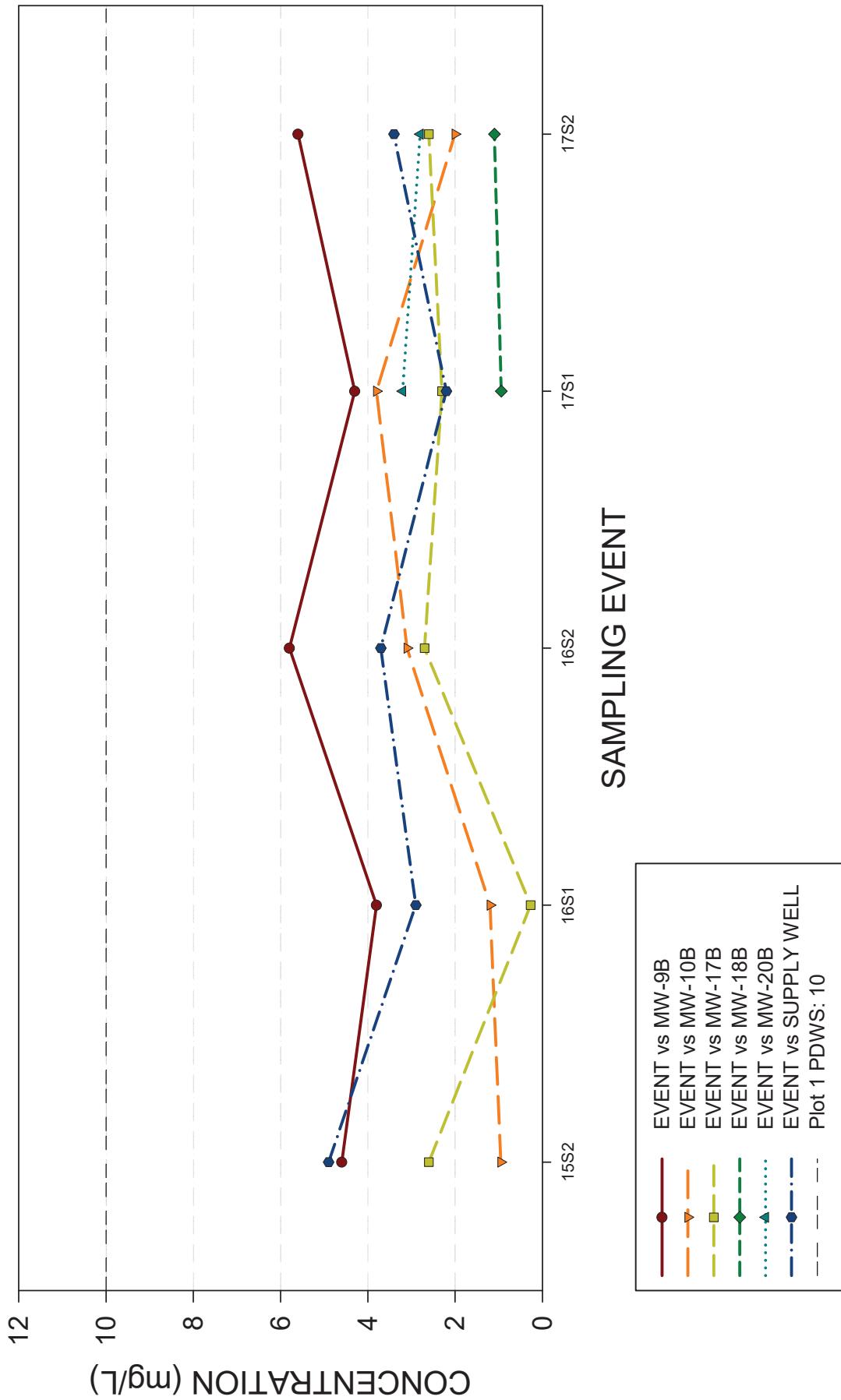
**ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH**



NITRATE AS NITROGEN

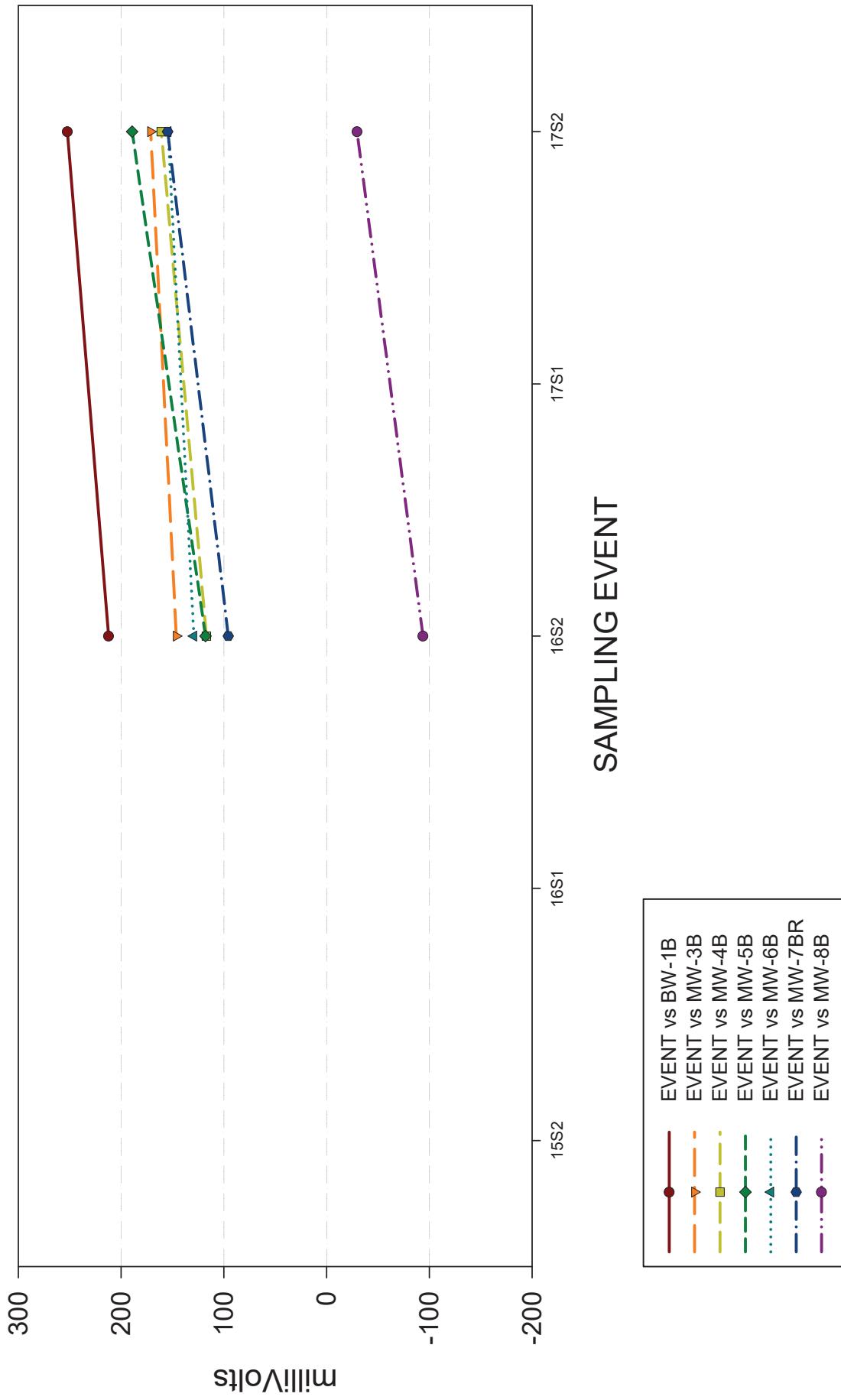
**ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH**

PDWS: 10



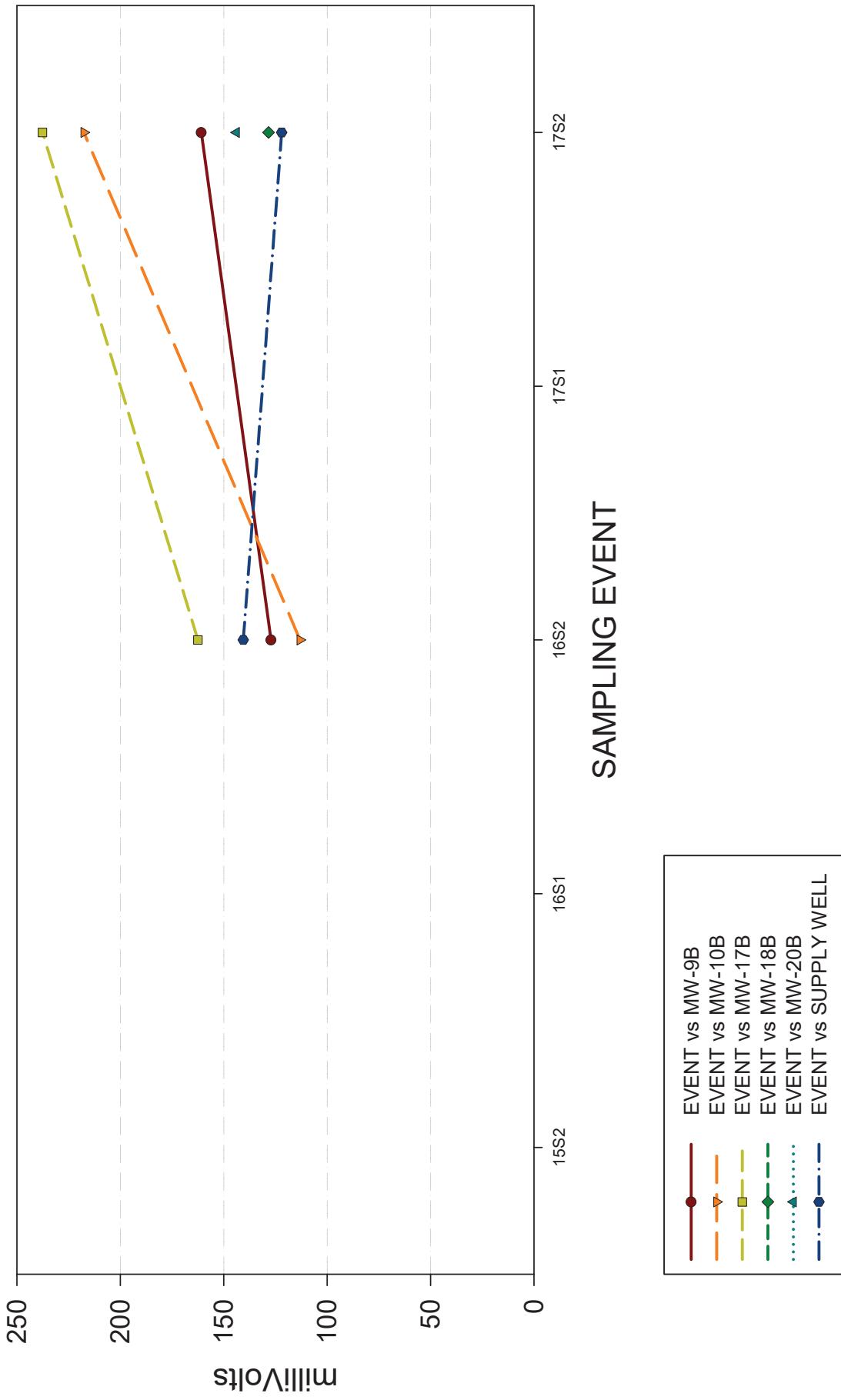
OXIDATION / REDUCTION POTENTIAL

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



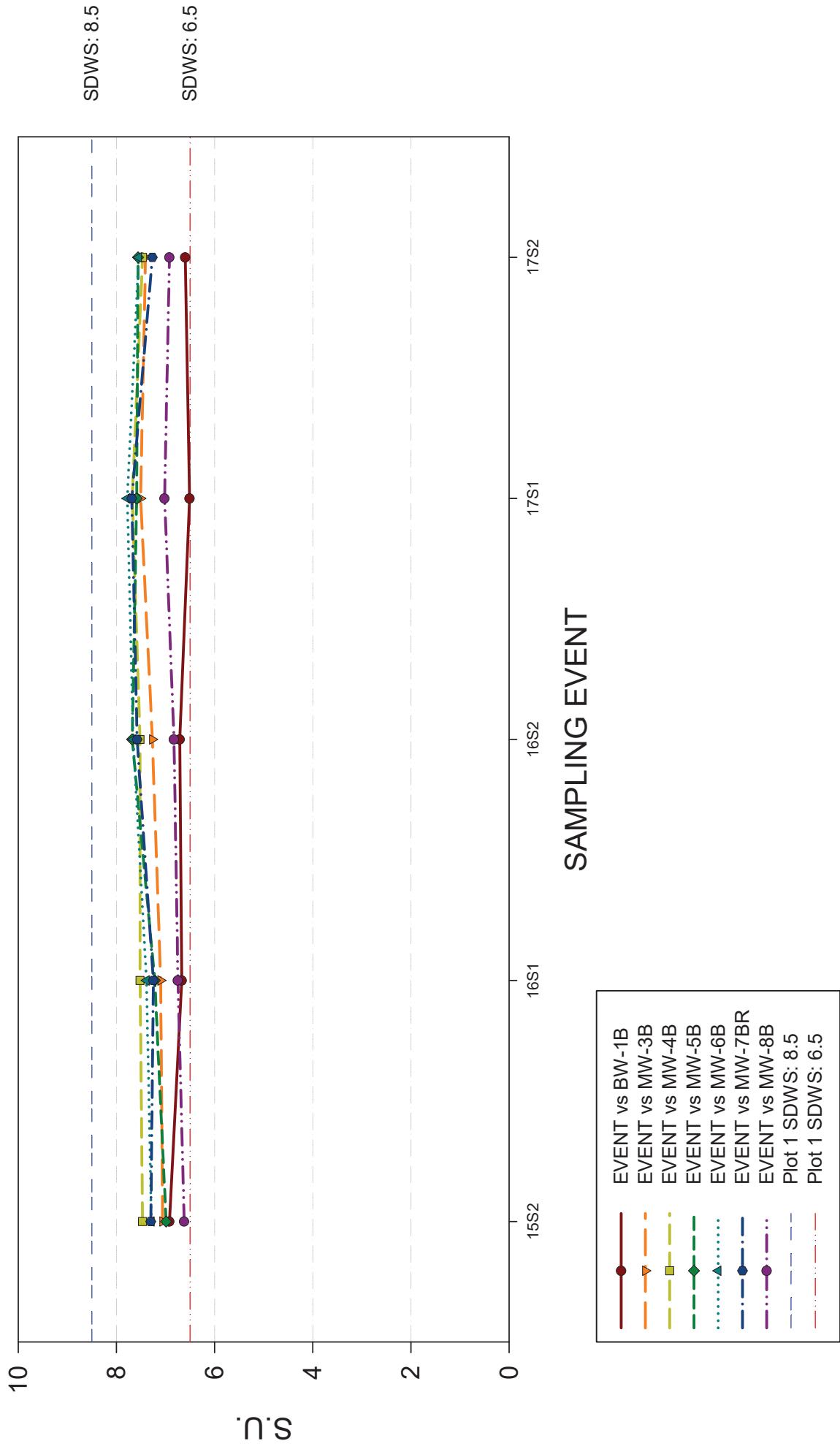
OXIDATION / REDUCTION POTENTIAL

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



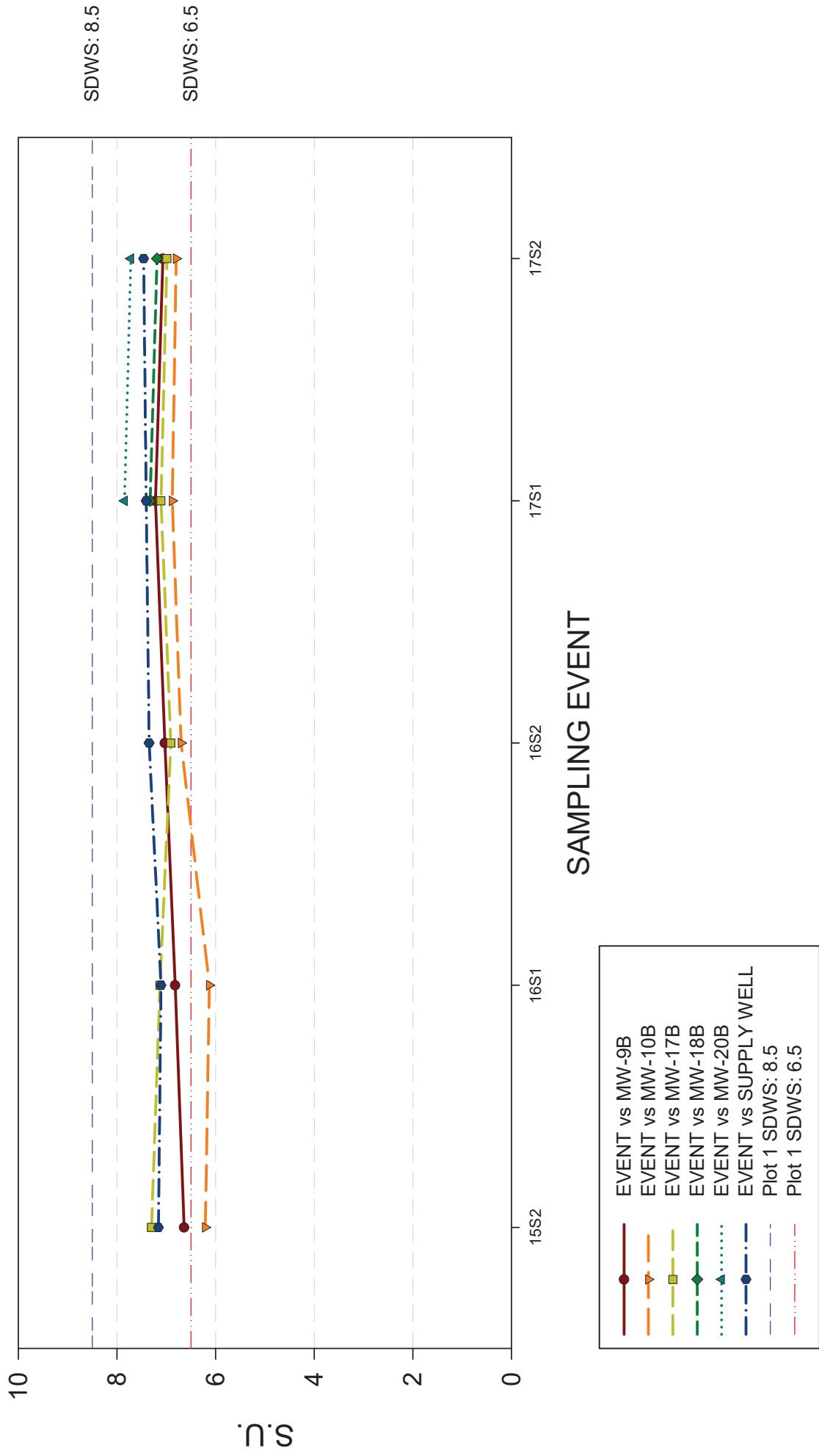
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ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH



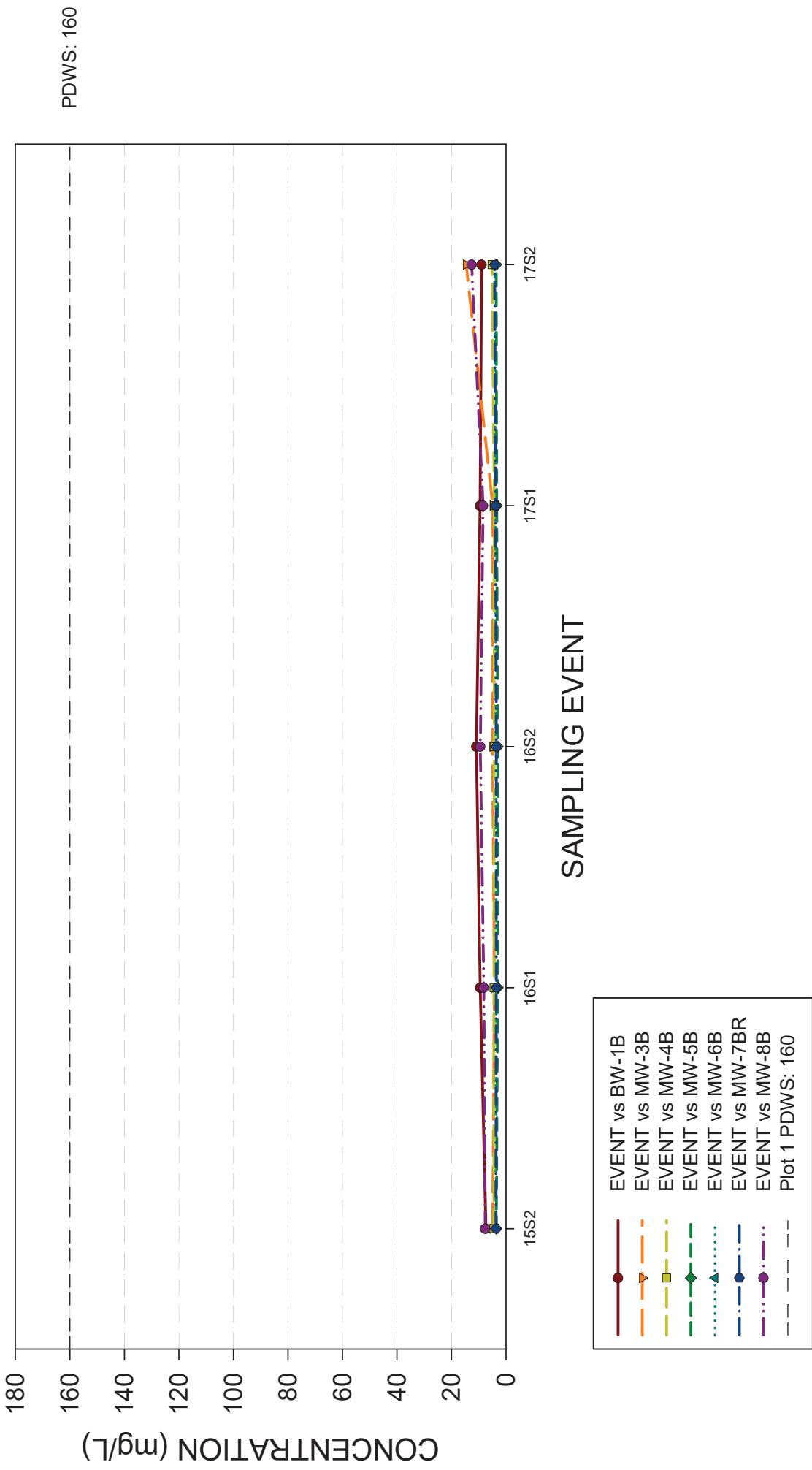
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ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH



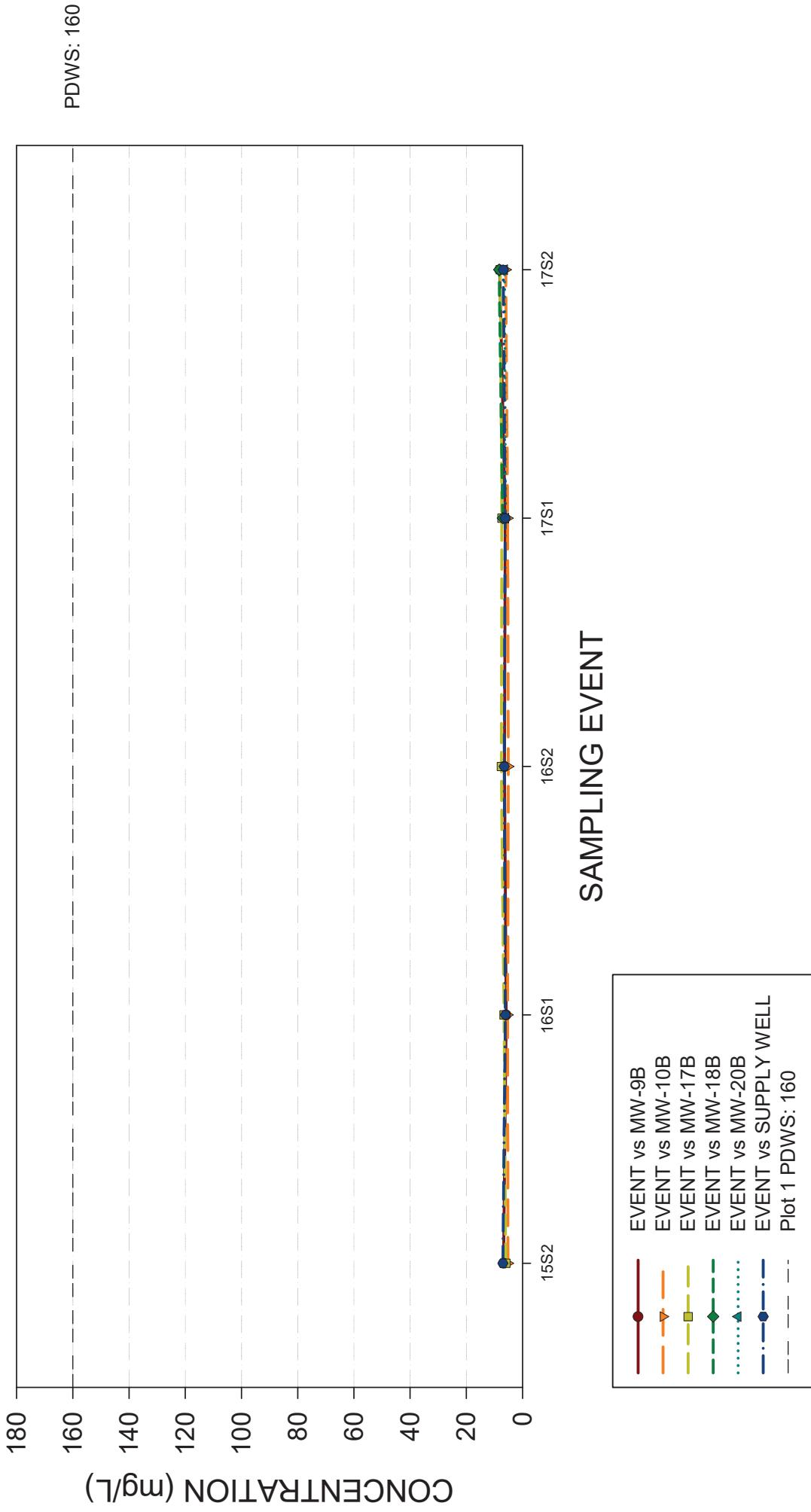
SODIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



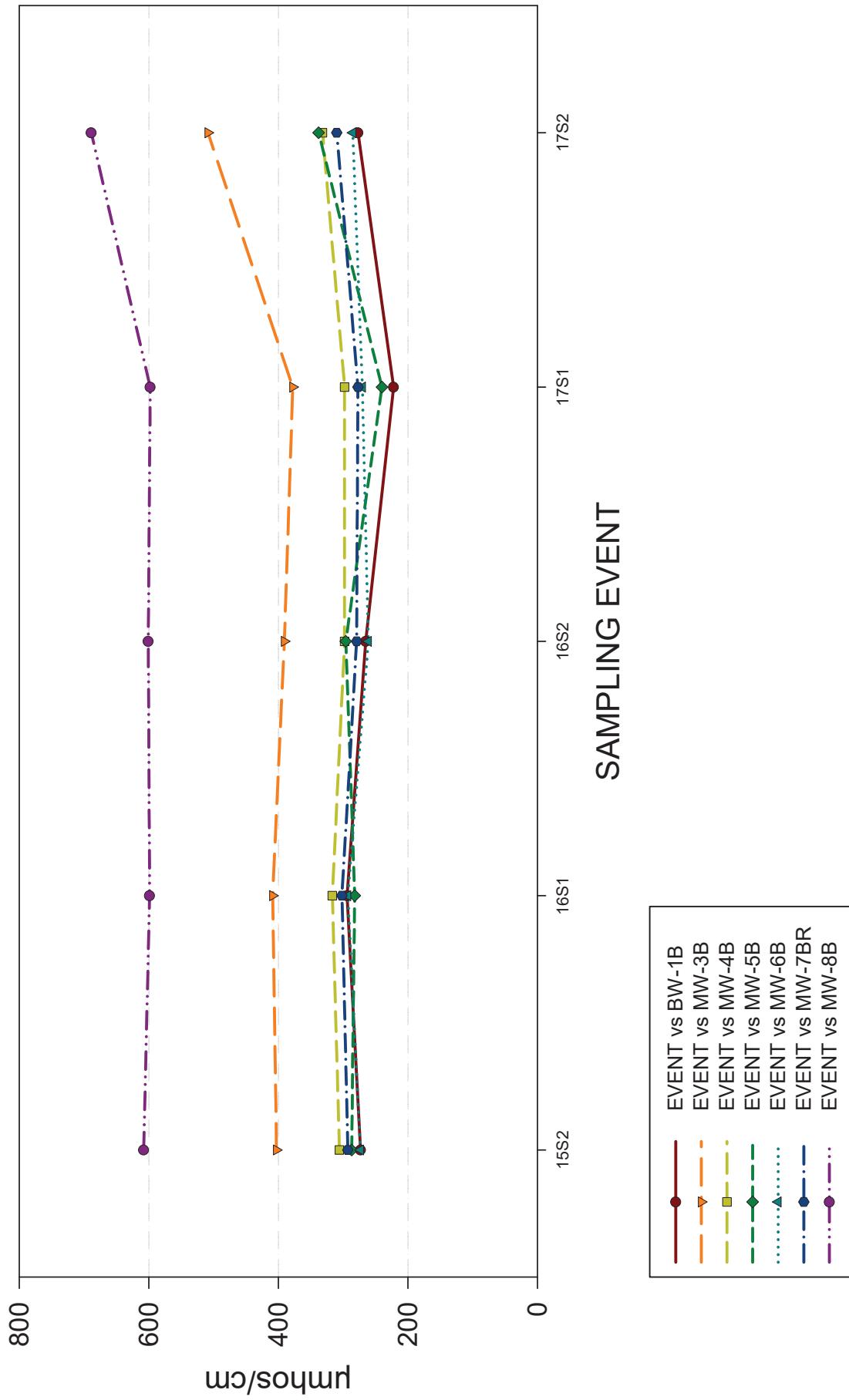
SODIUM

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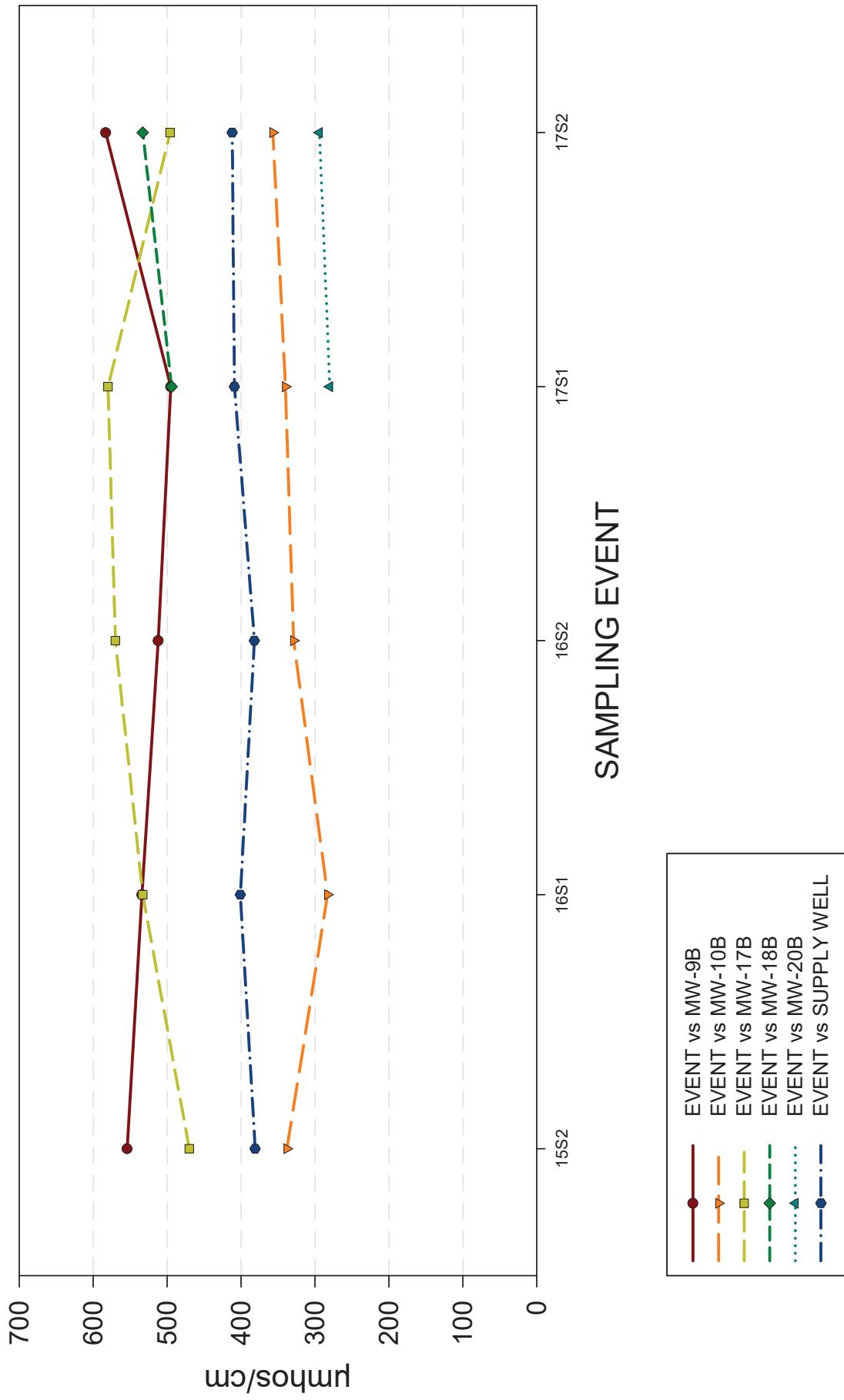
SPECIFIC CONDUCTANCE

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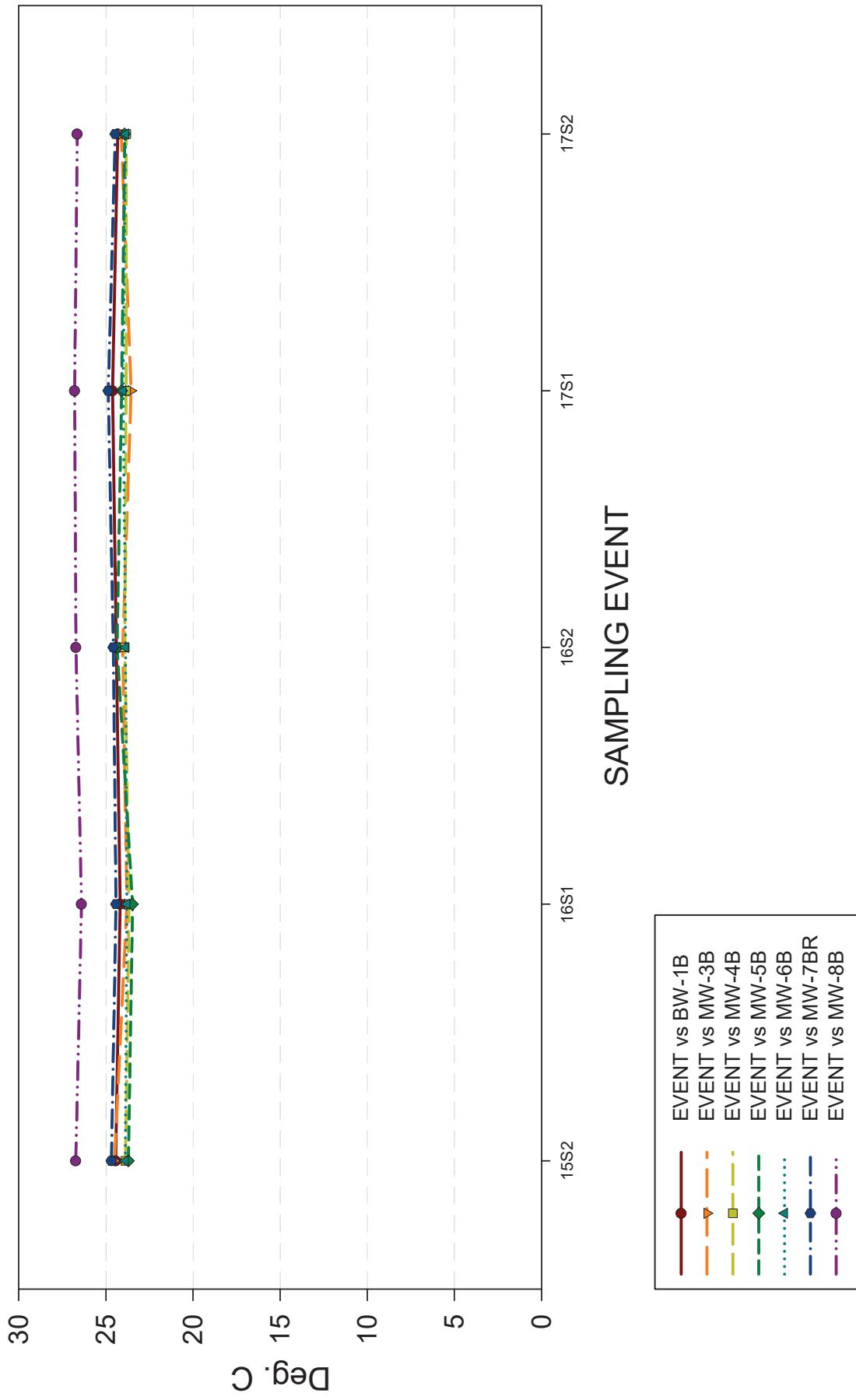
SPECIFIC CONDUCTANCE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



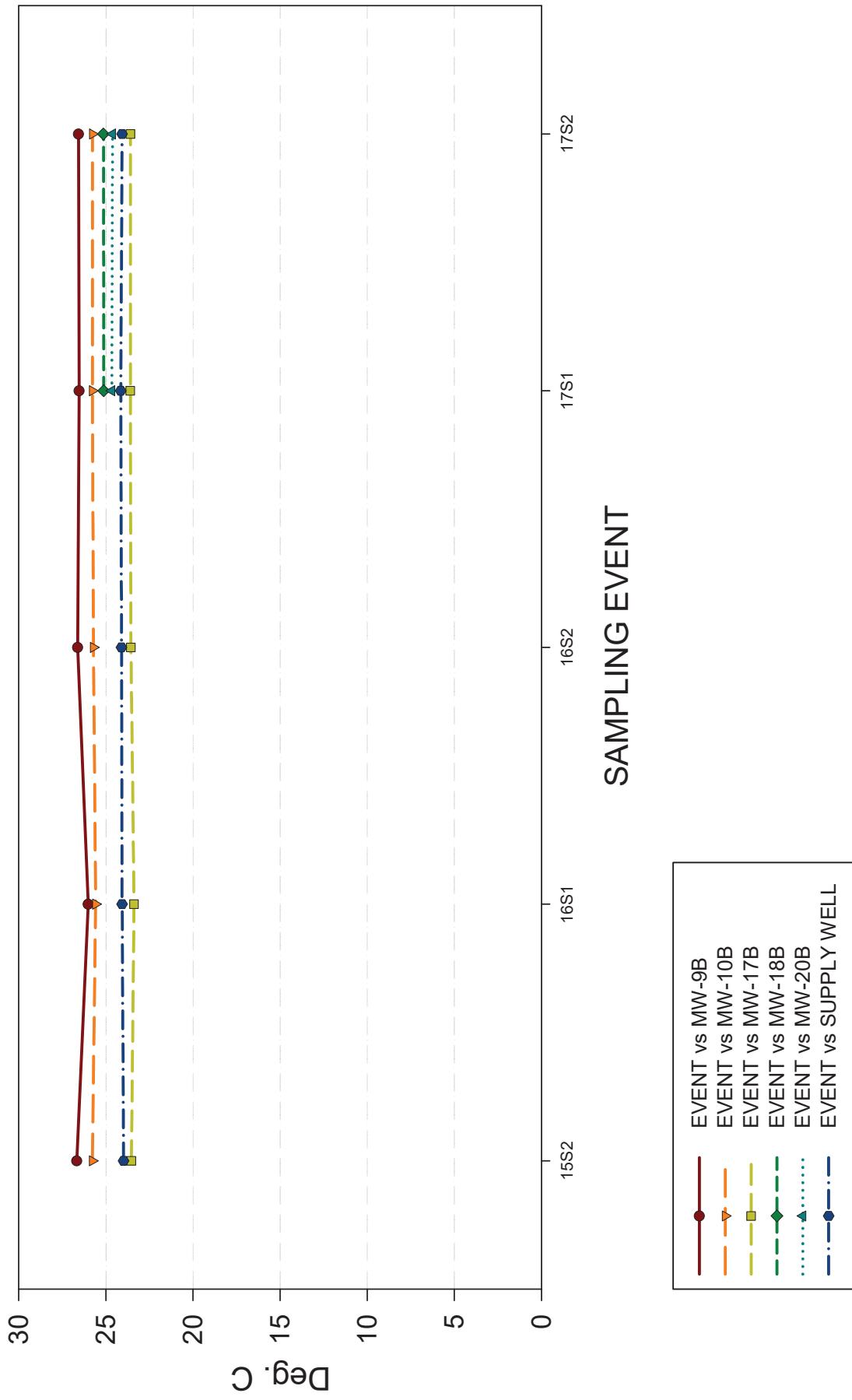
TEMPERATURE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



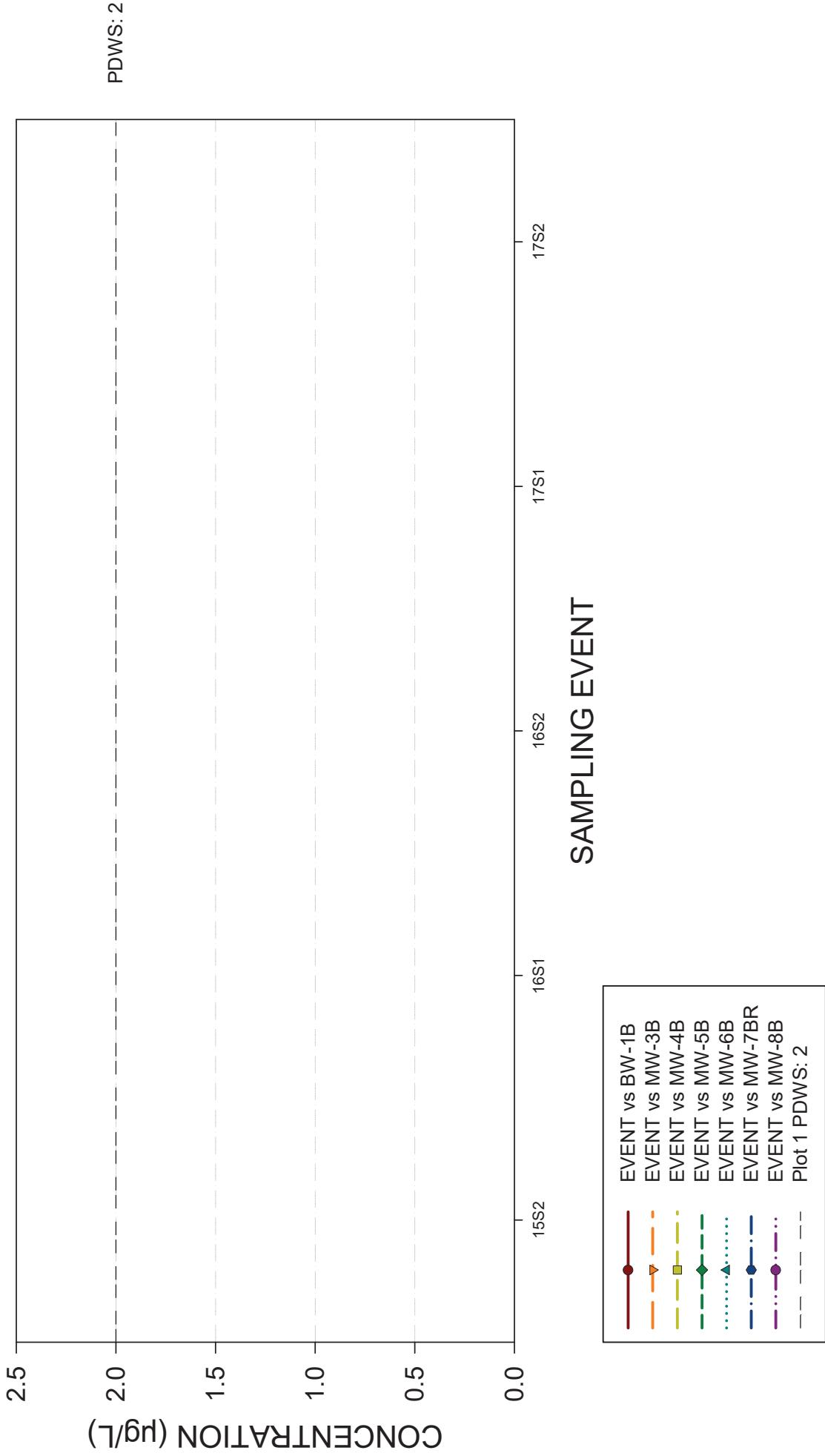
TEMPERATURE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



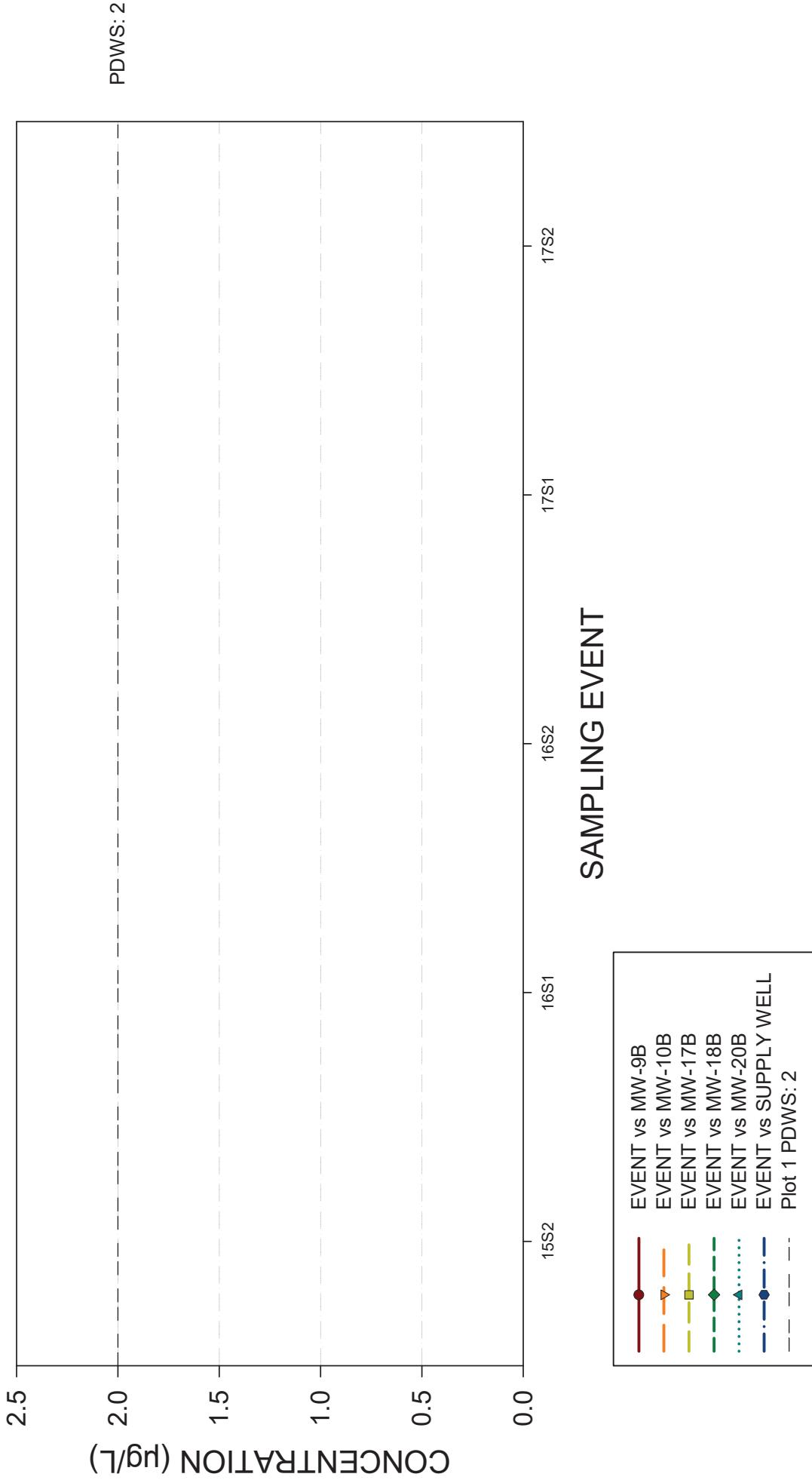
THALLIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



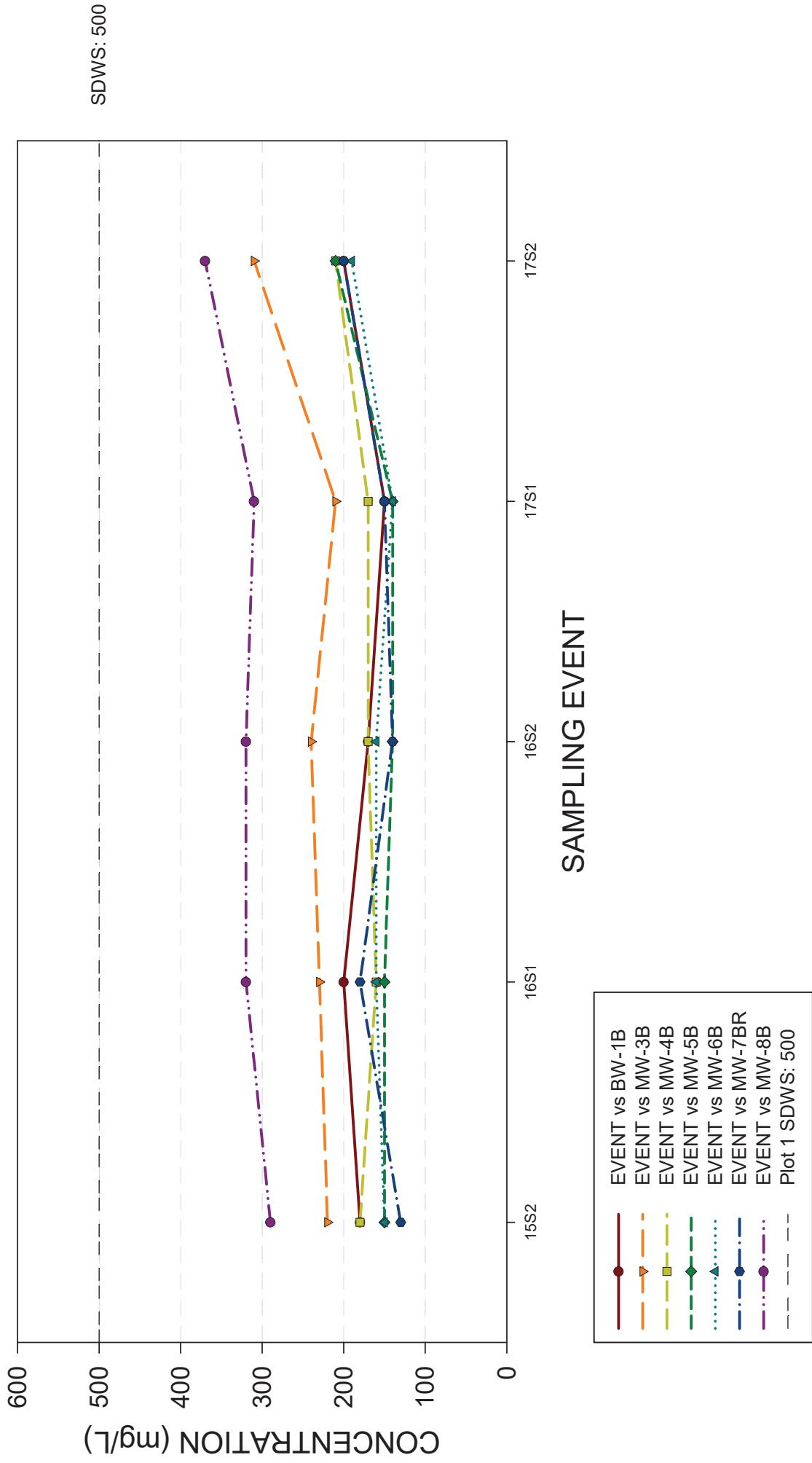
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ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



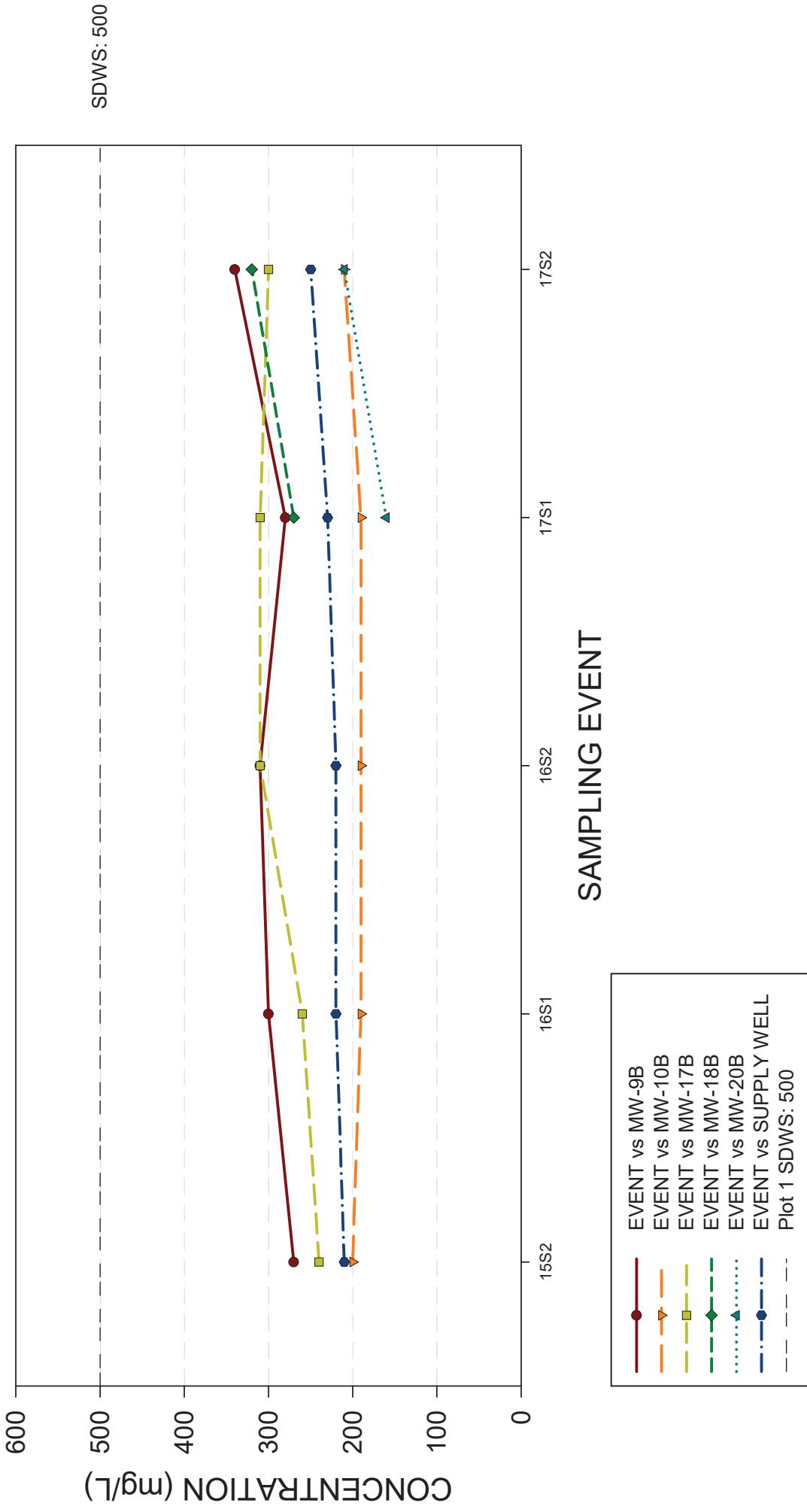
TOTAL DISSOLVED SOLIDS

**ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH**



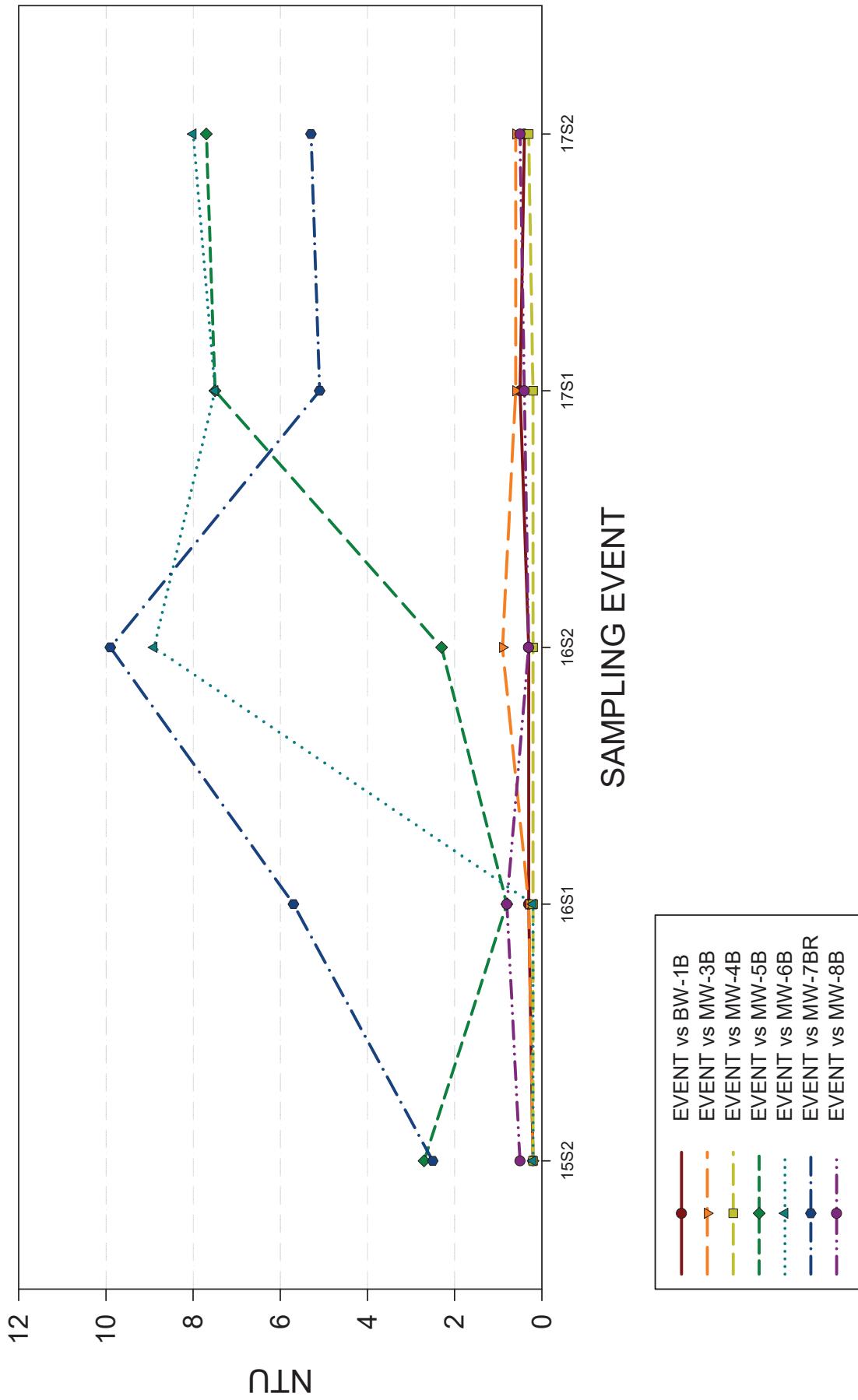
TOTAL DISSOLVED SOLIDS

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



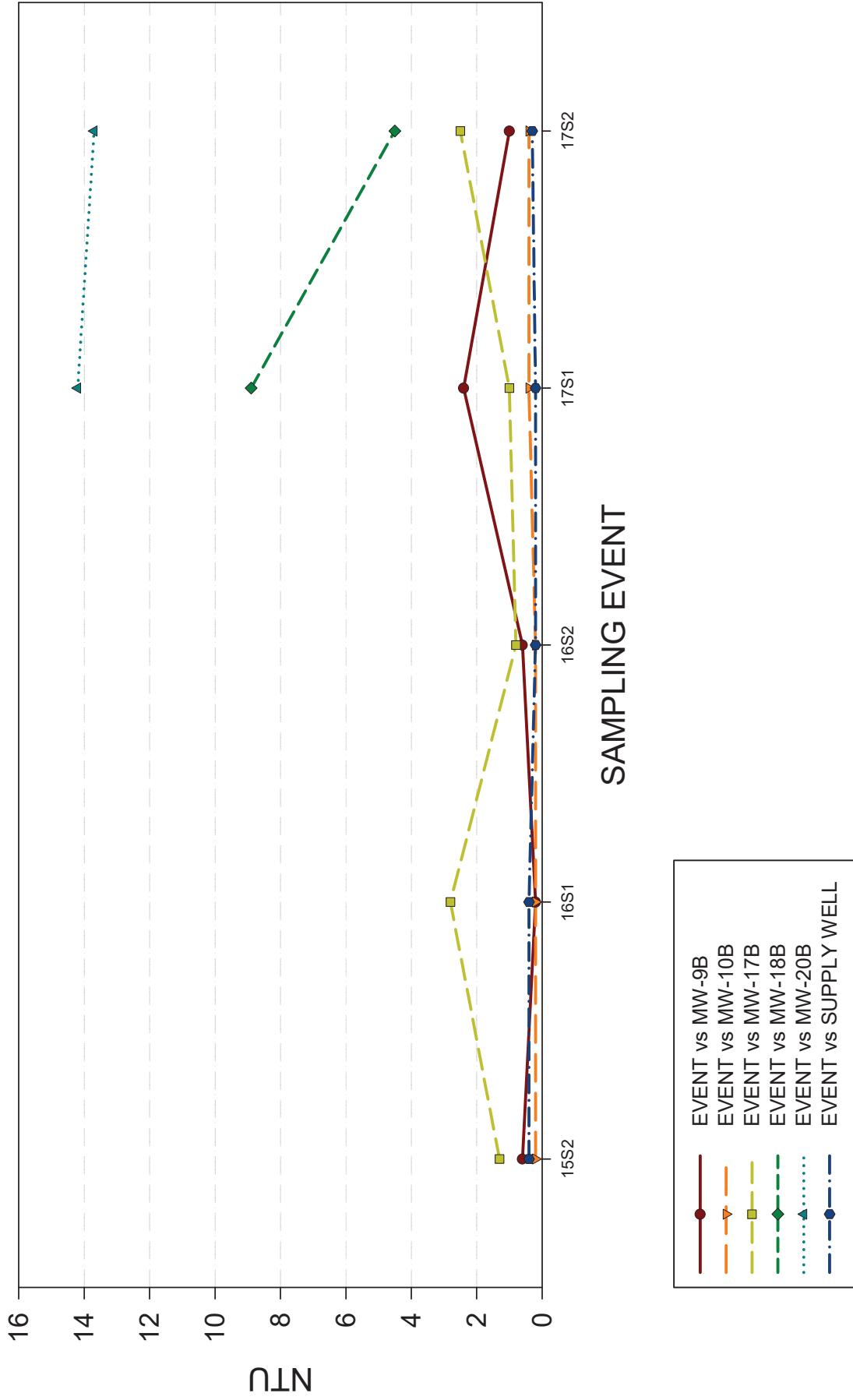
TURBIDITY

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



TURBIDITY

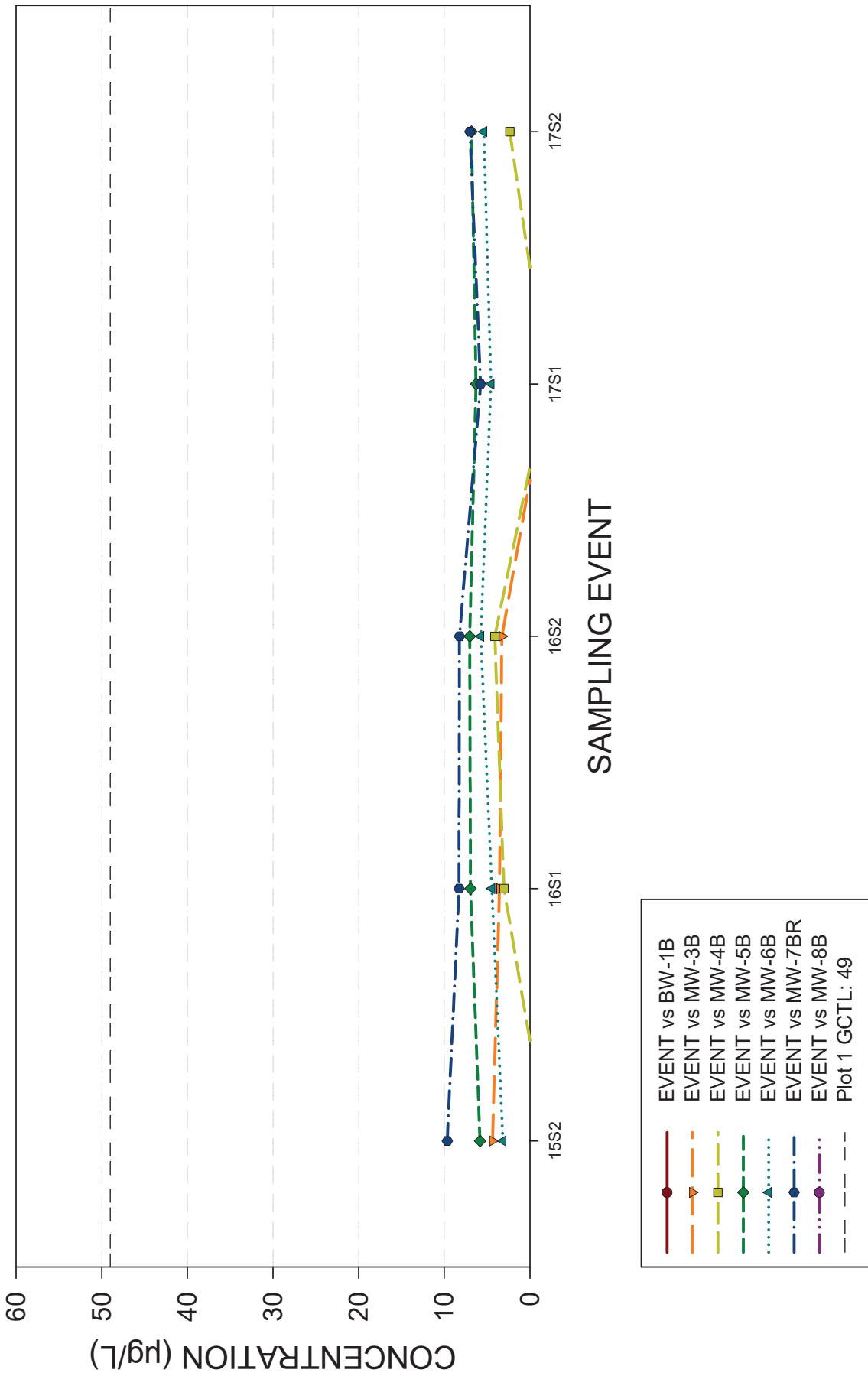
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



VANADIUM

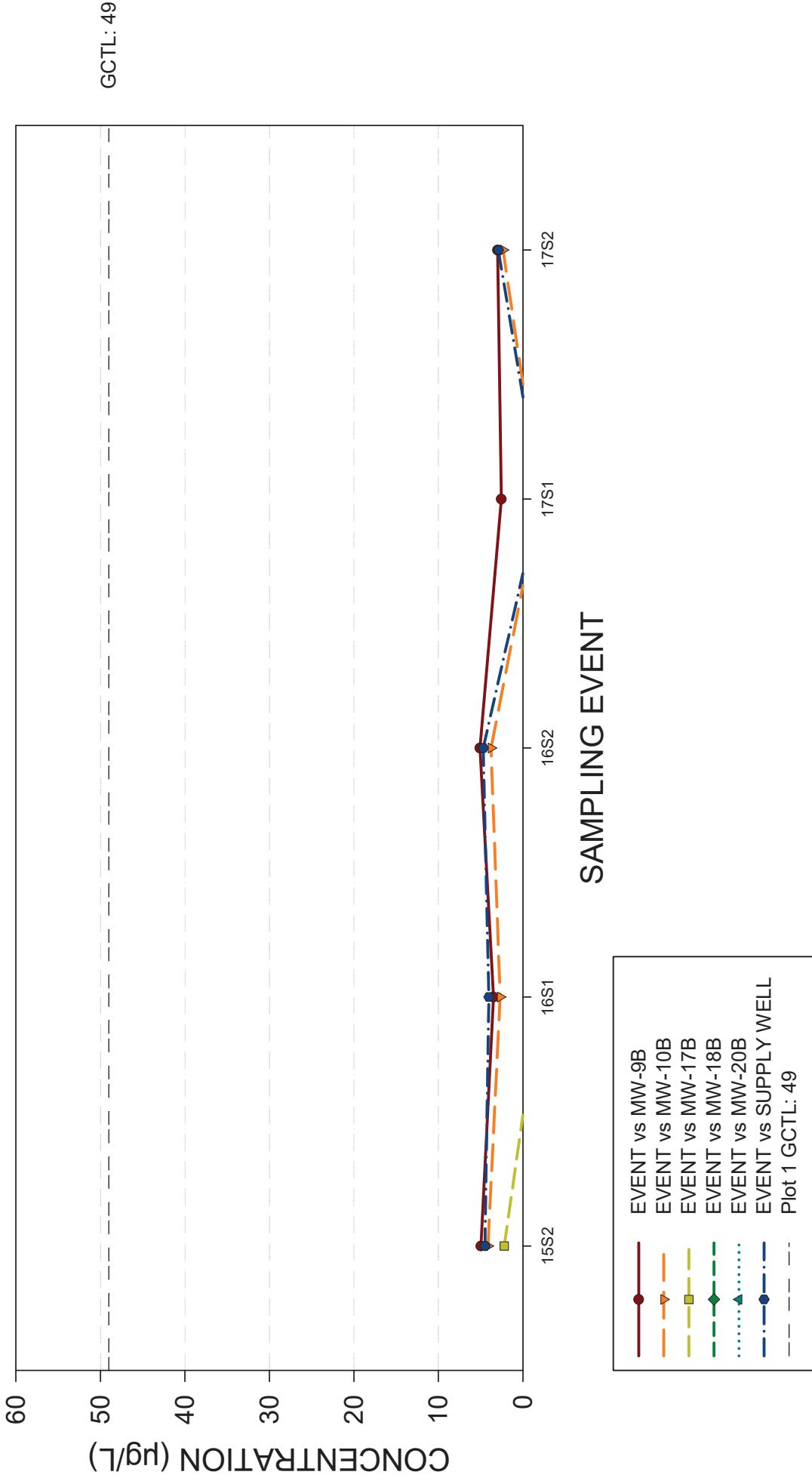
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH

GCTL: 49



VANADIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



ZINC

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



ZINC

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH



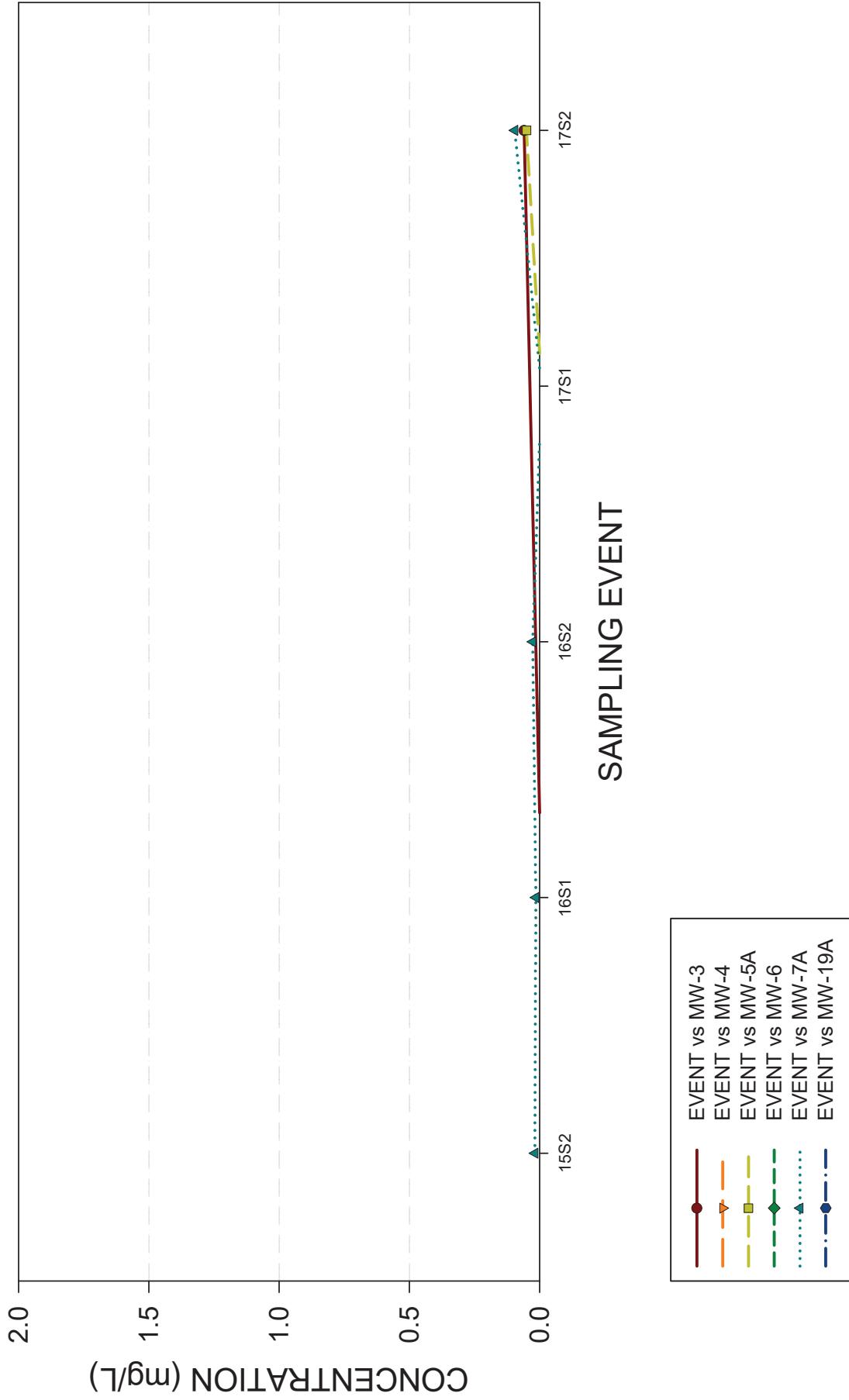
ACETONE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



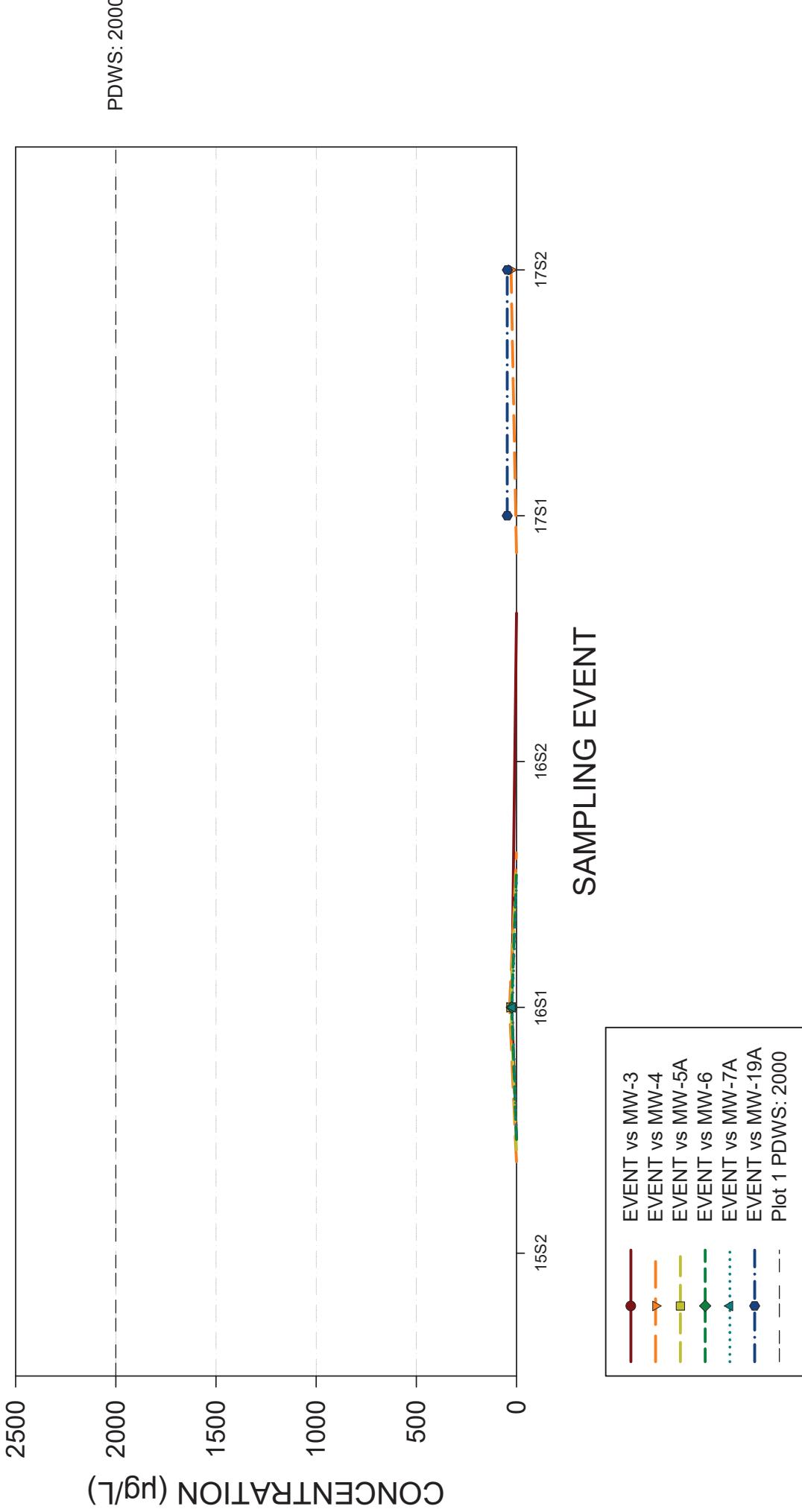
AMMONIA AS NITROGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



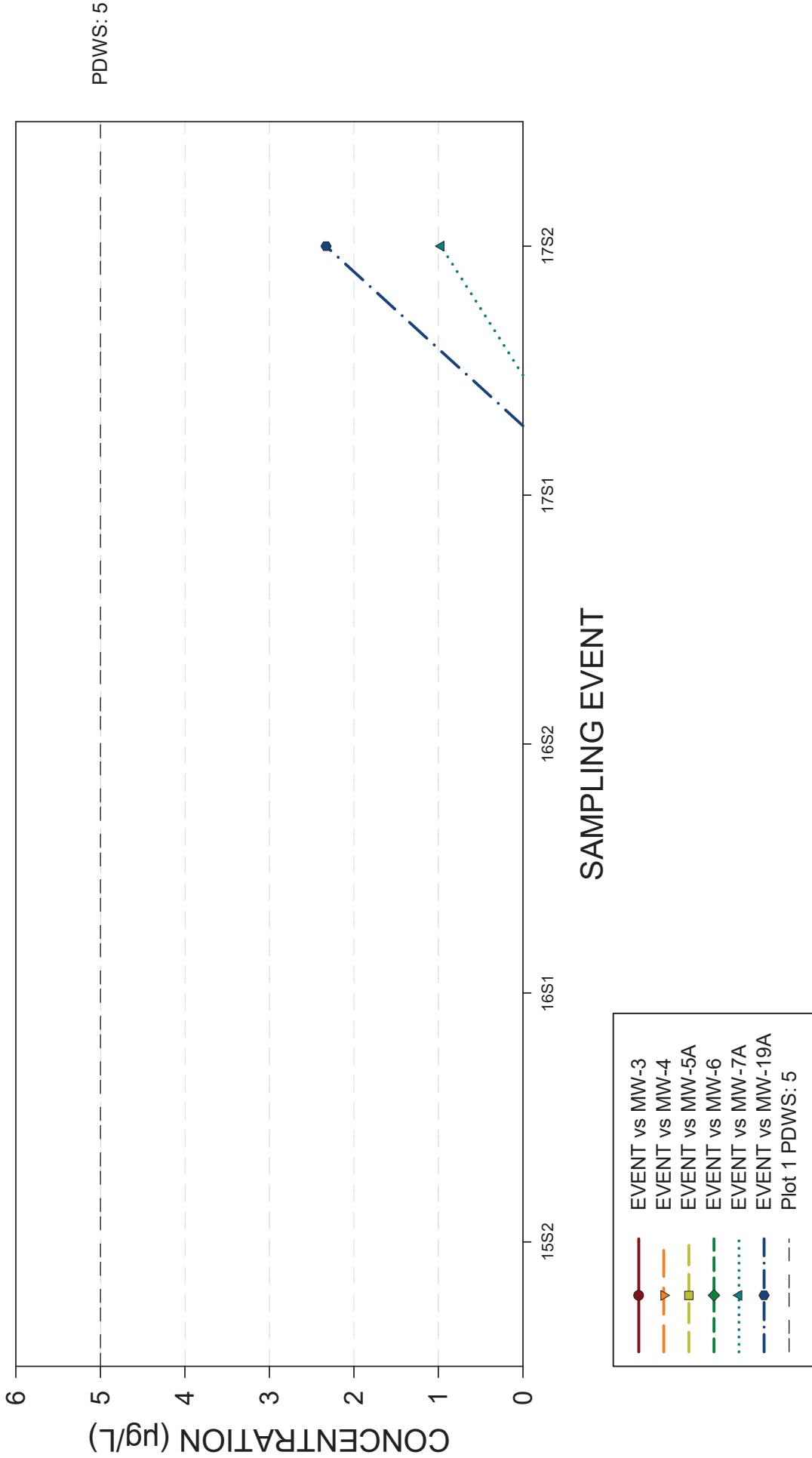
BARIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



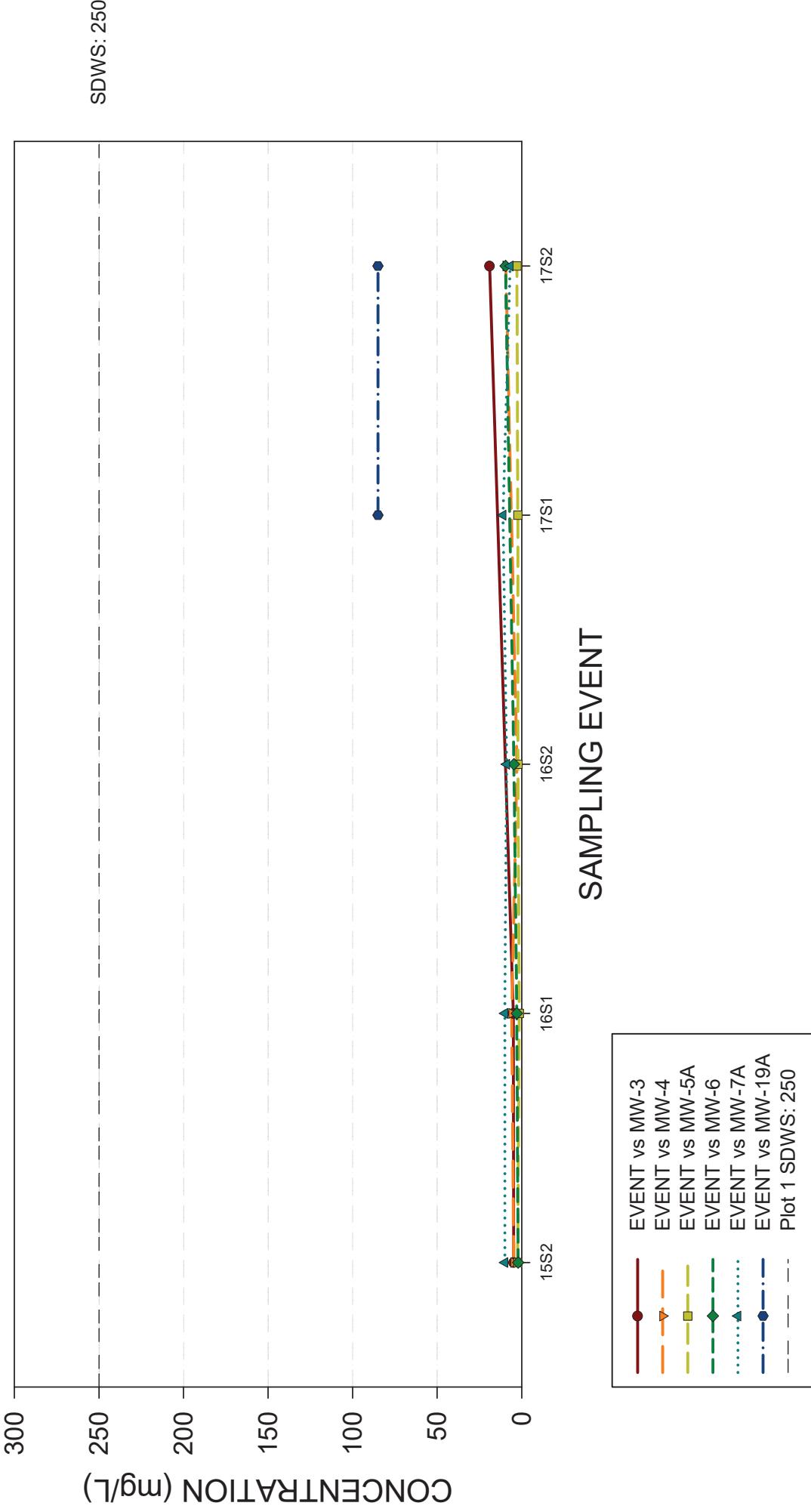
CADMIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



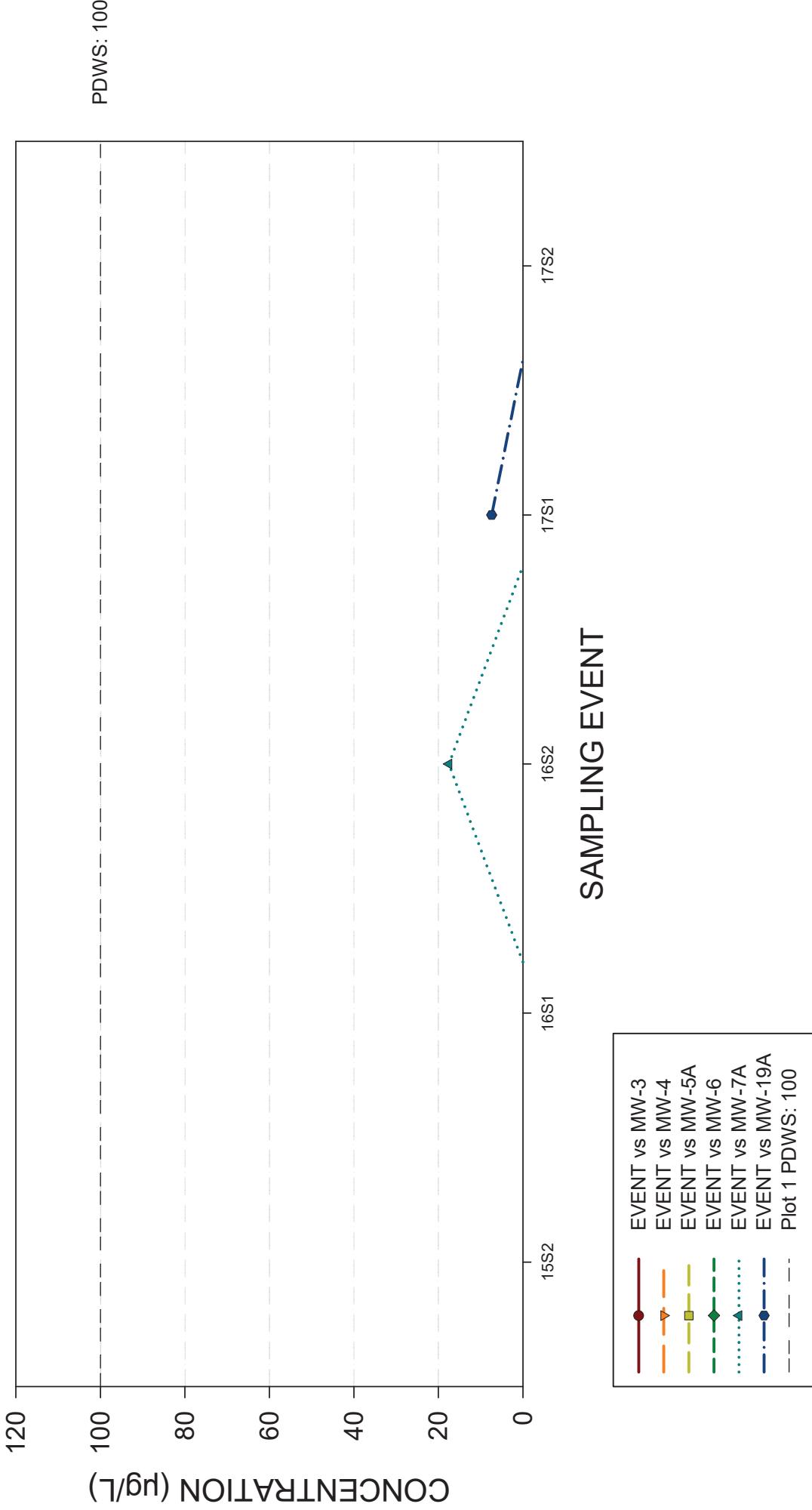
CHLORIDE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



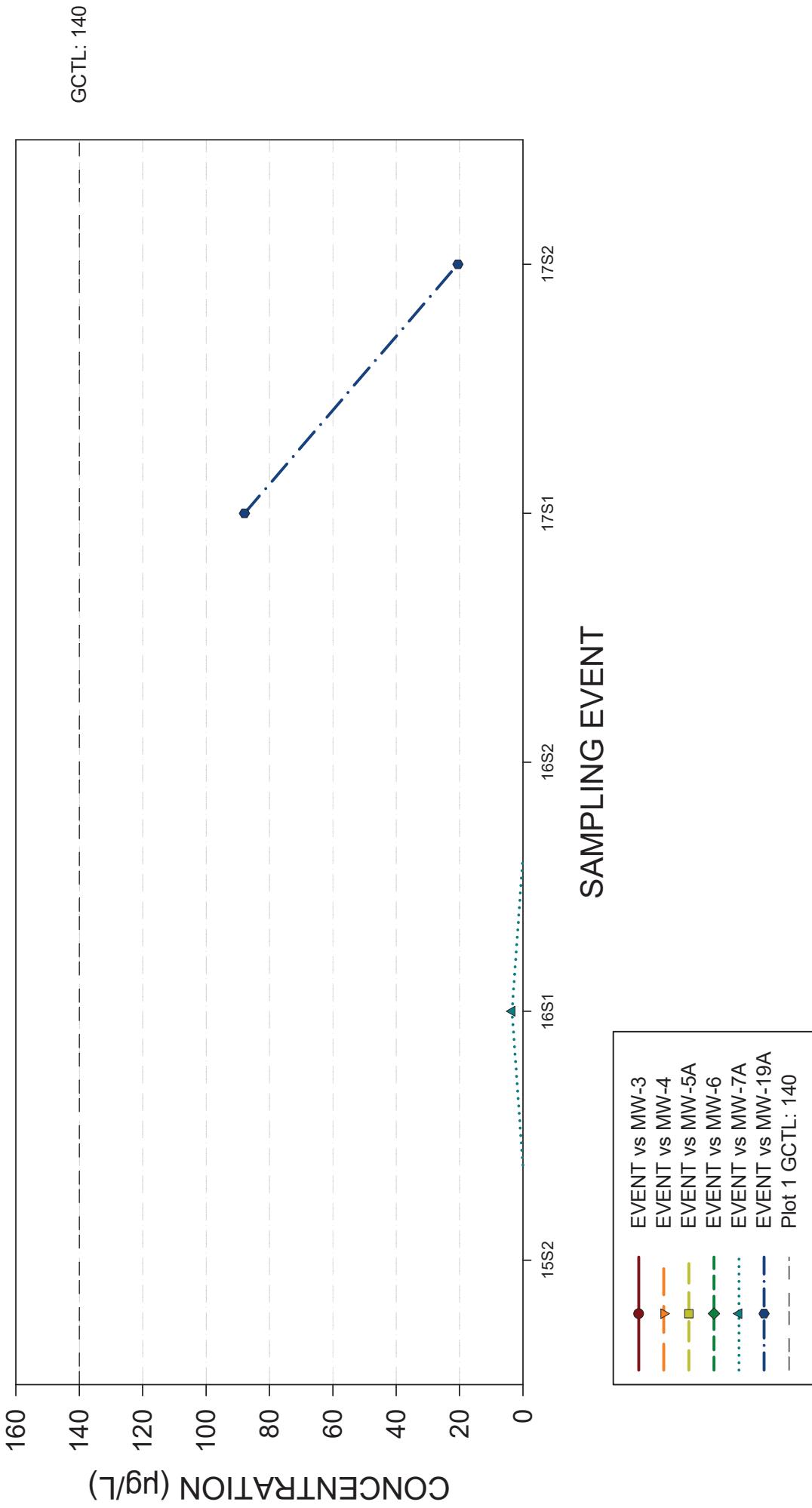
CHROMIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



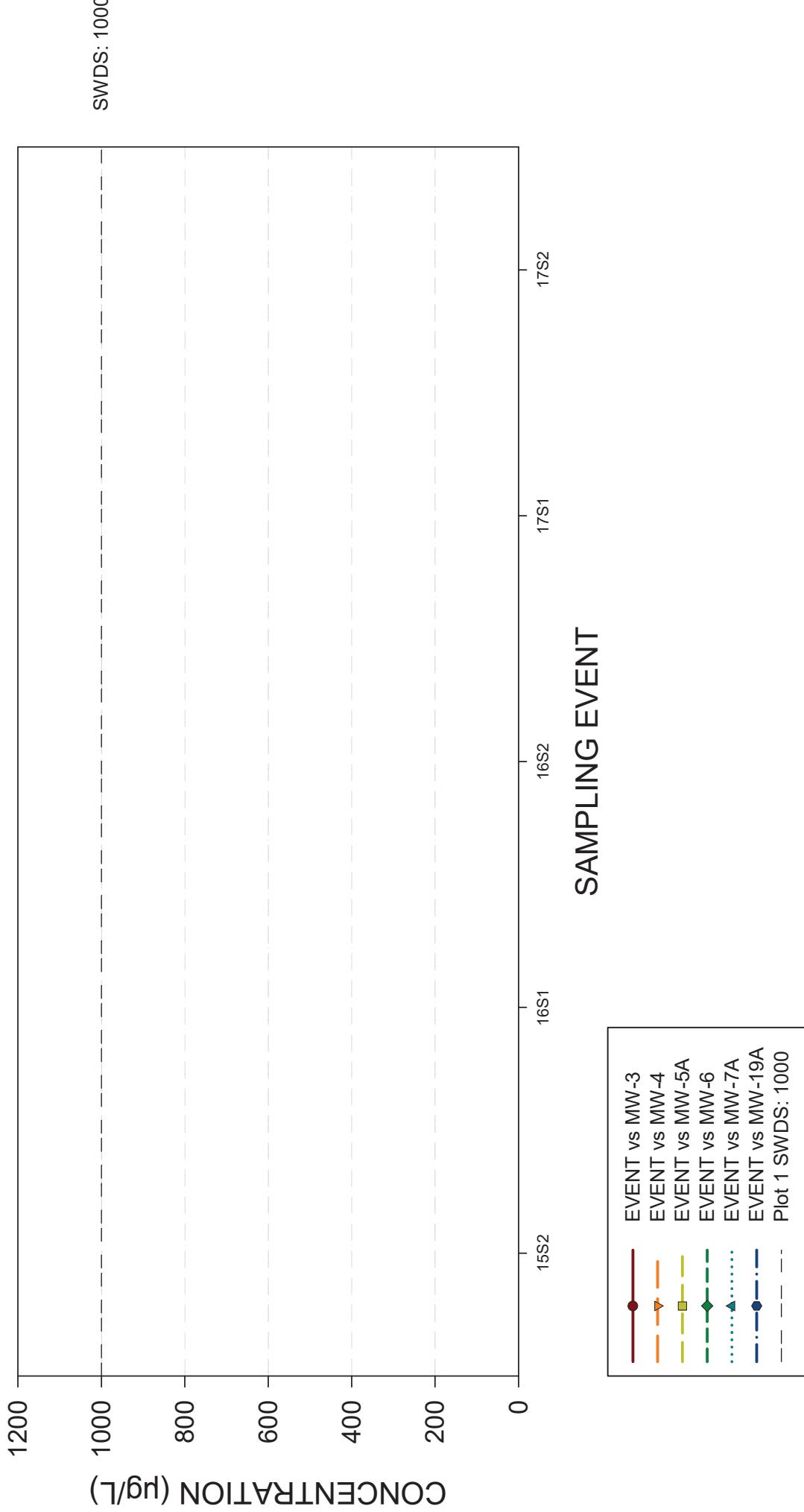
COBALT

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



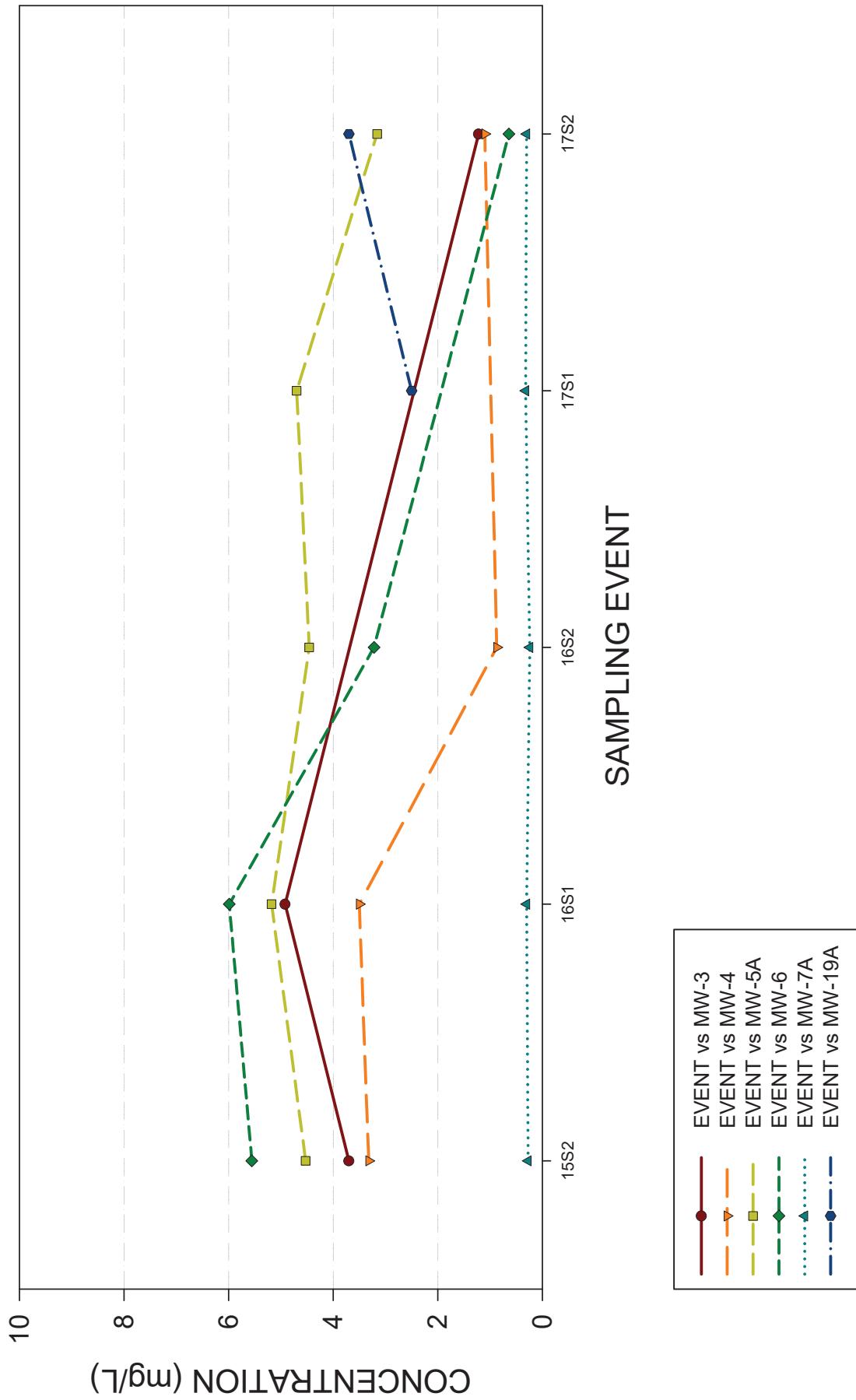
COPPER

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



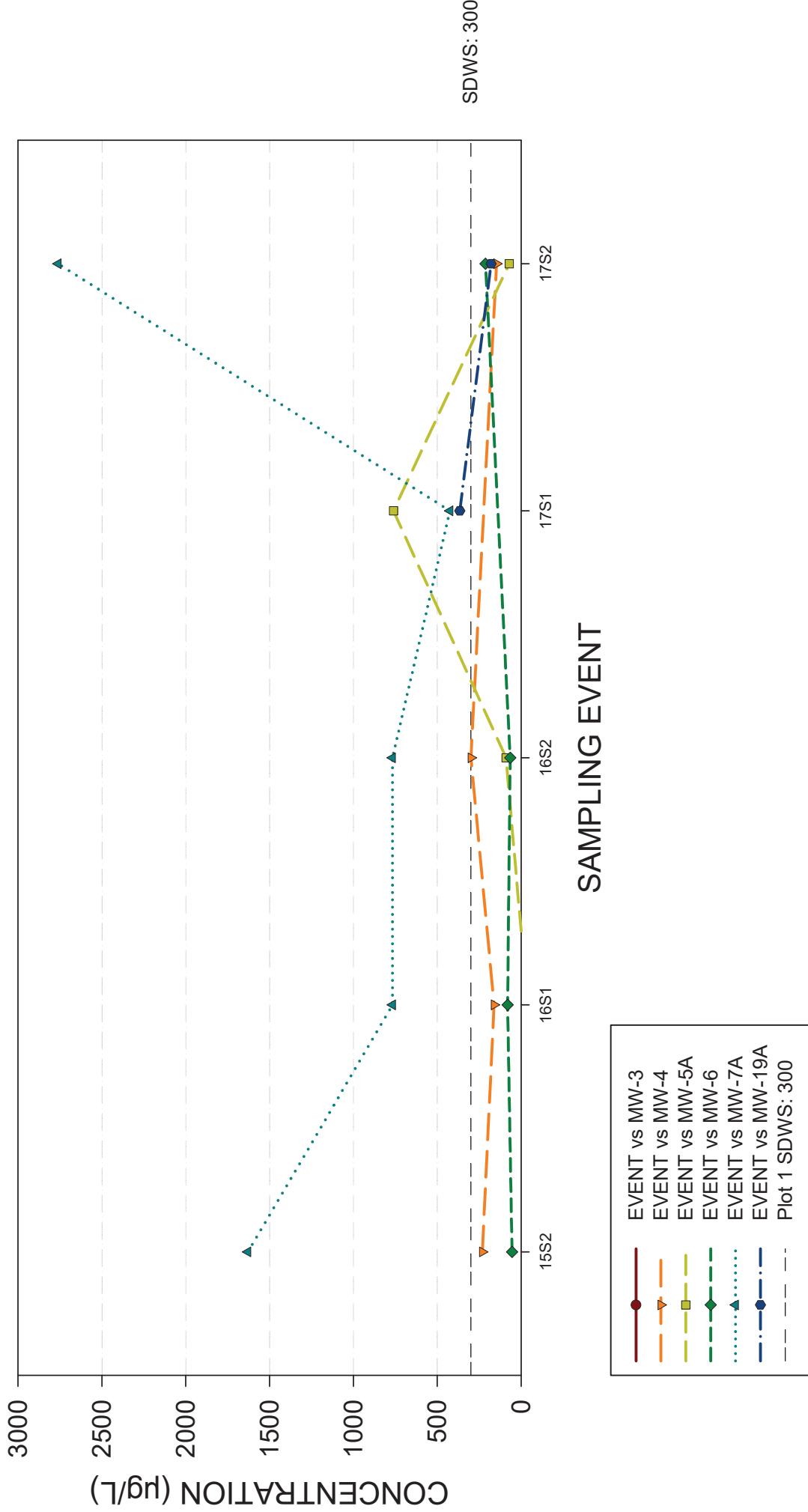
DISSOLVED OXYGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



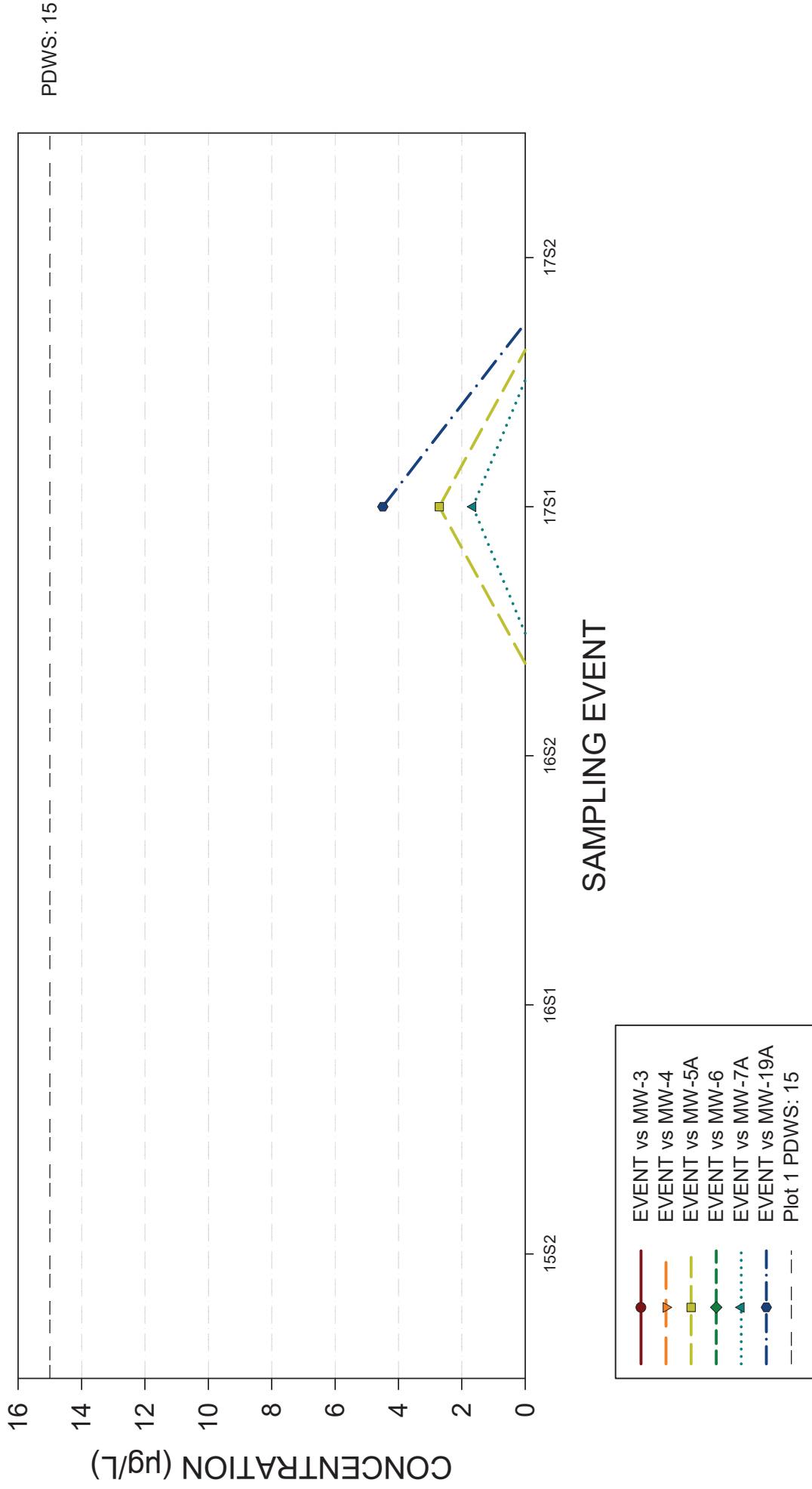
IRON

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



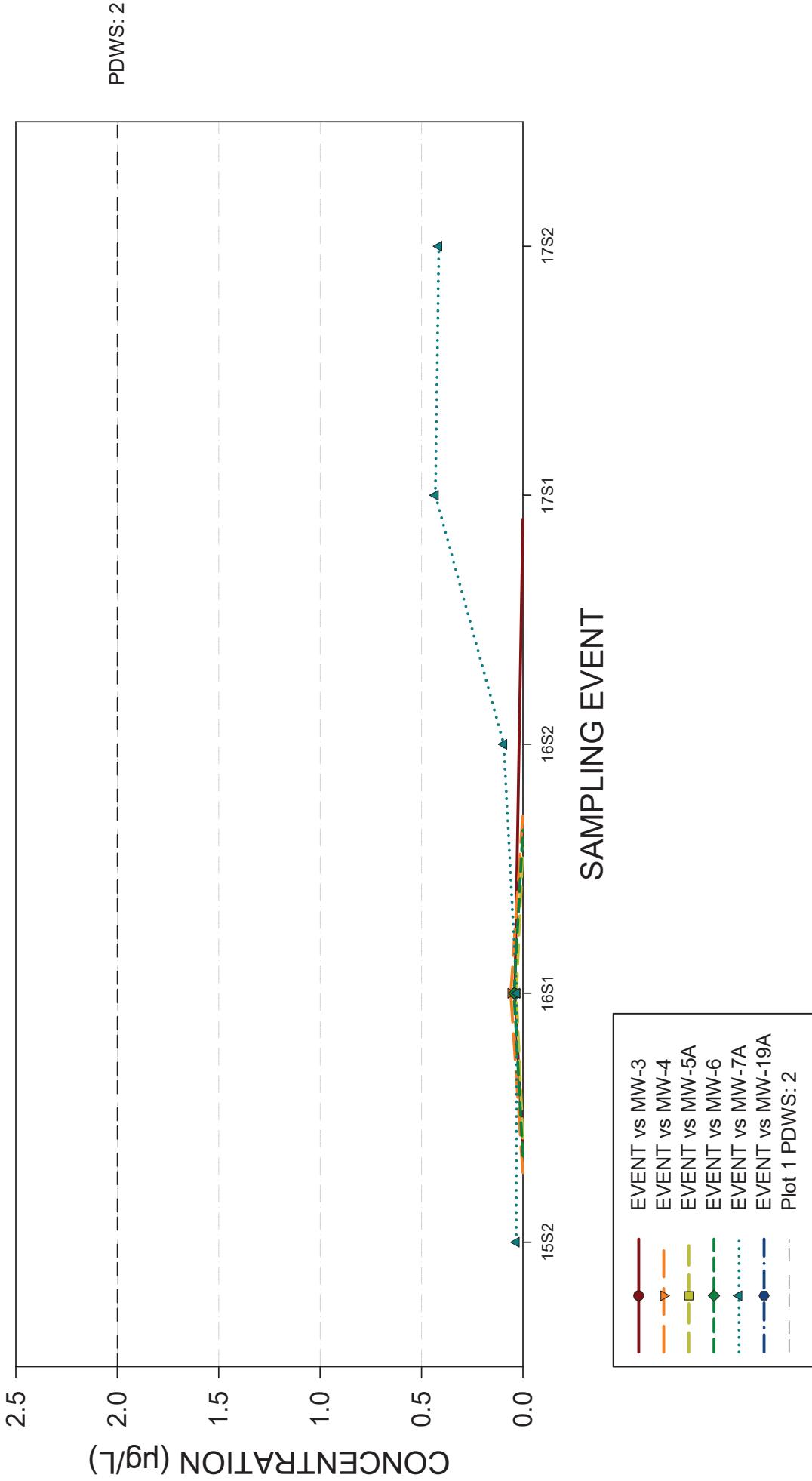
LEAD

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



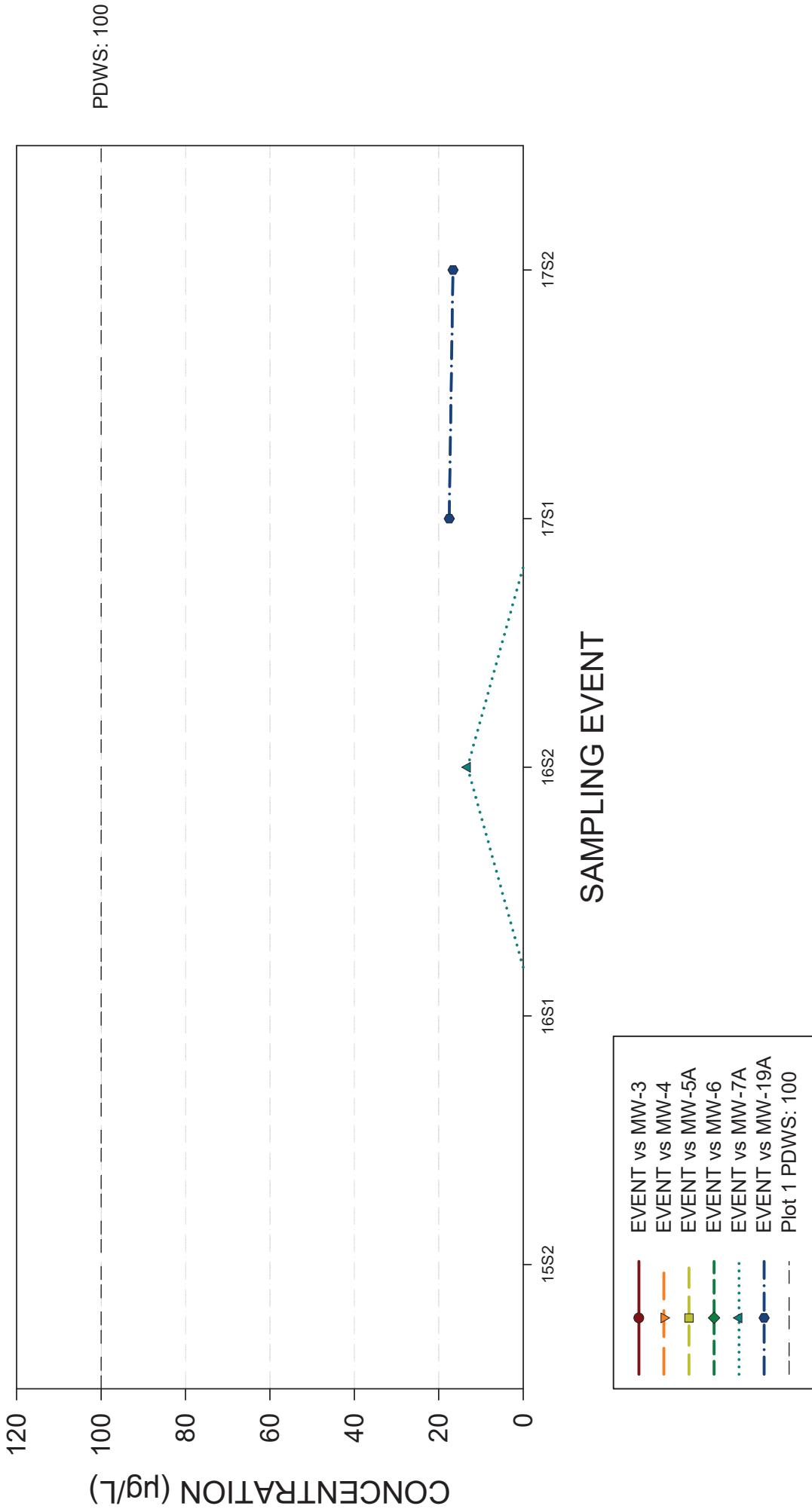
MERCURY

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



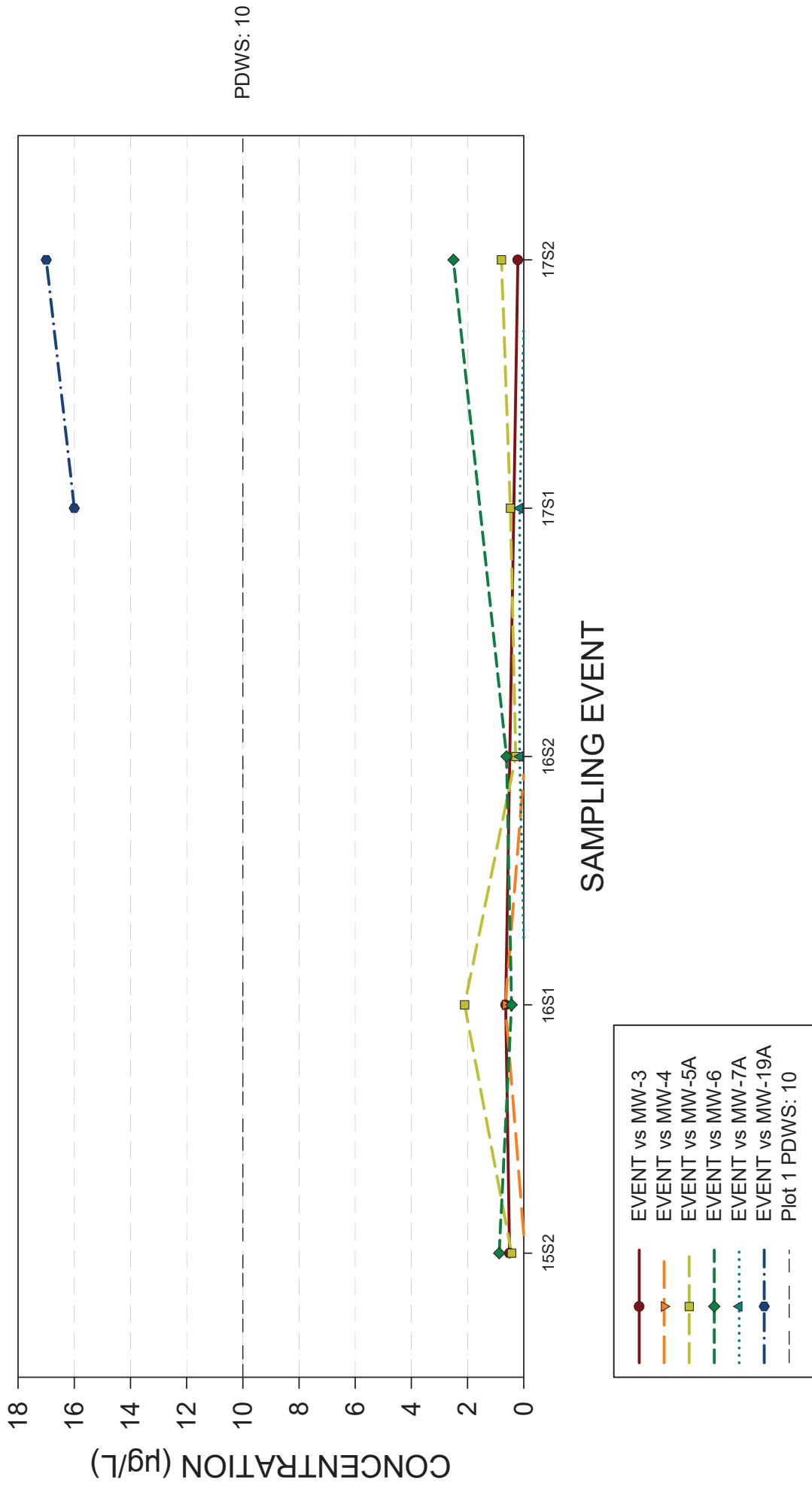
NICKEL

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



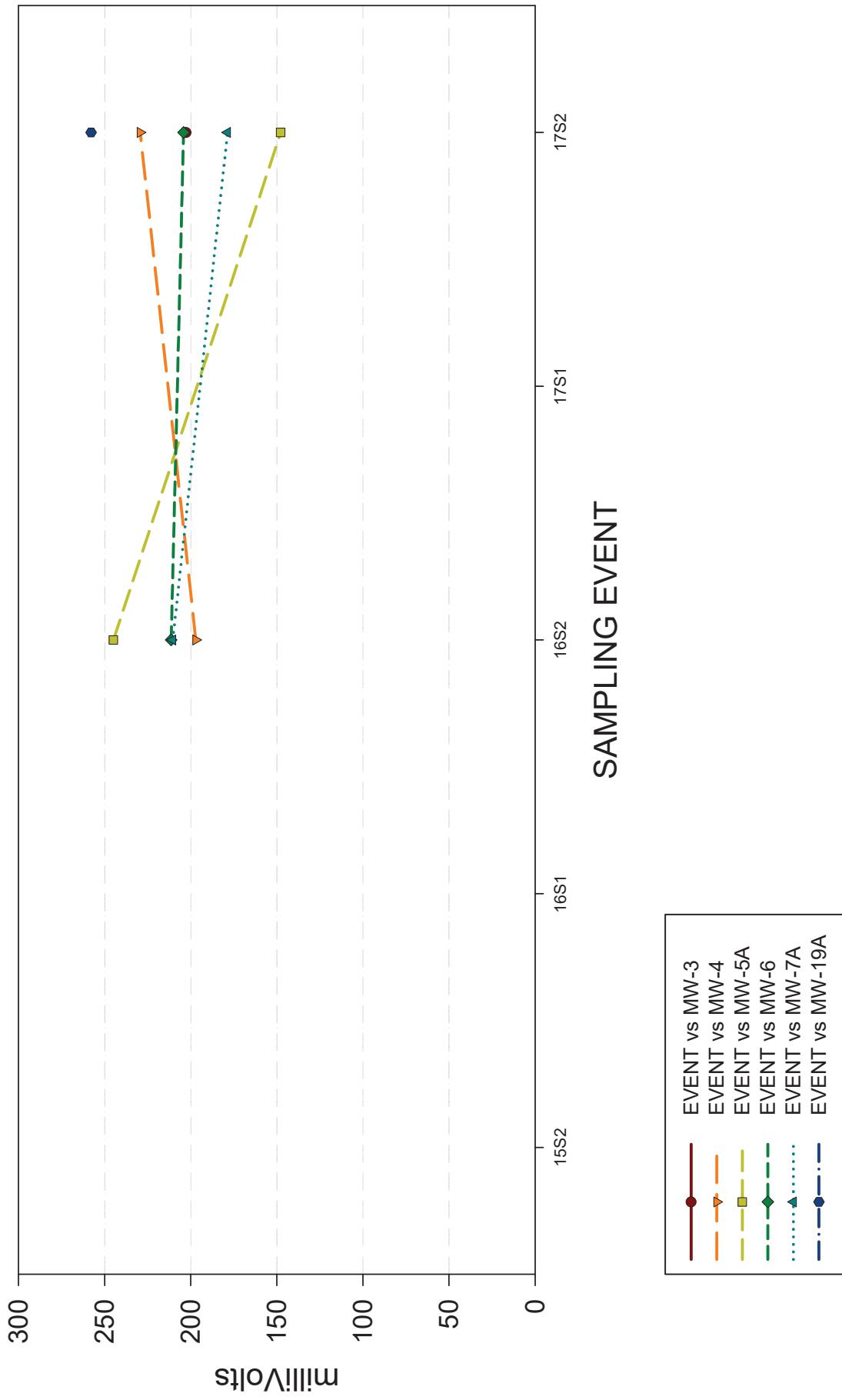
NITRATE AS NITROGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



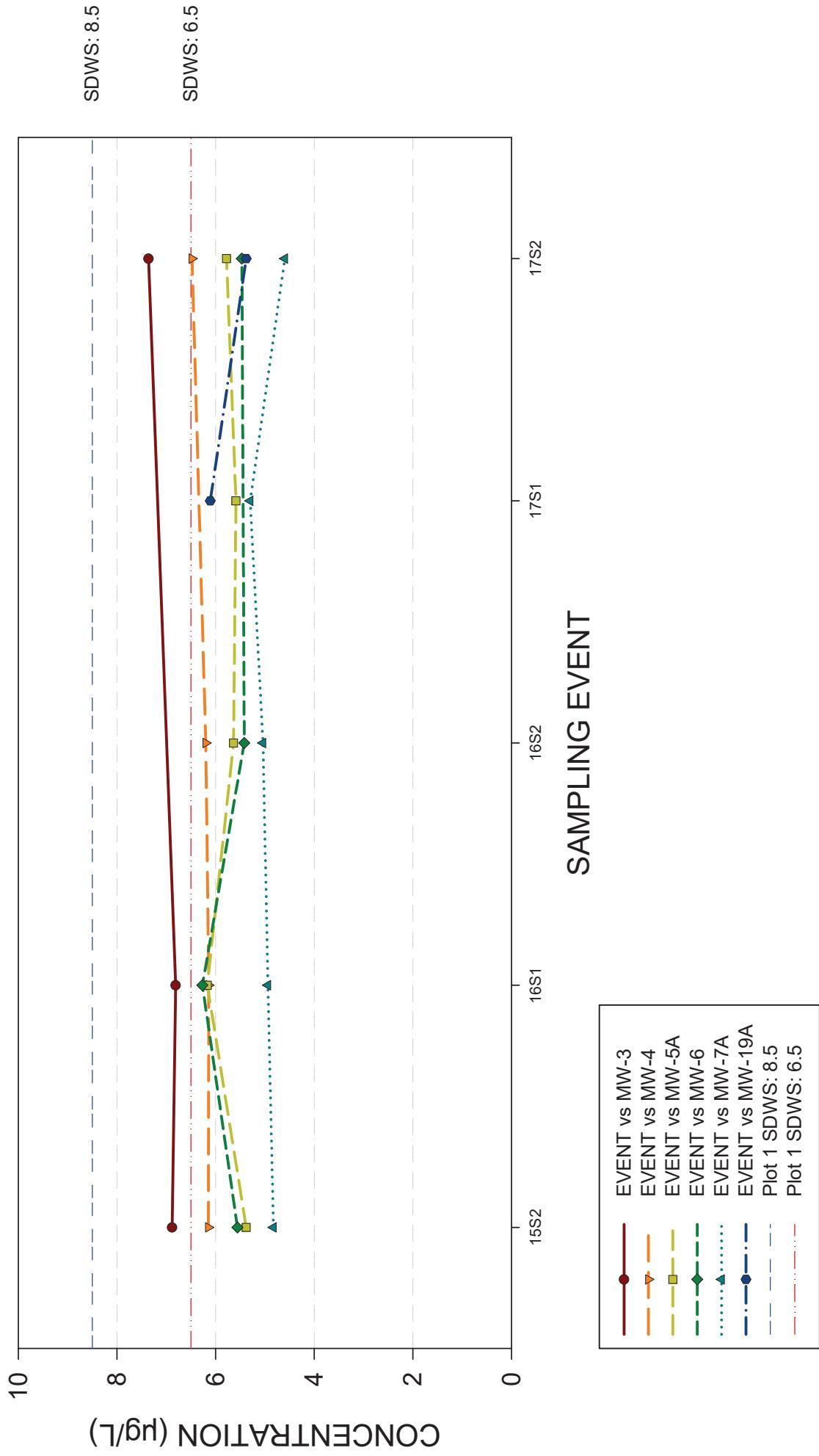
OXIDATION / REDUCTION POTENTIAL

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



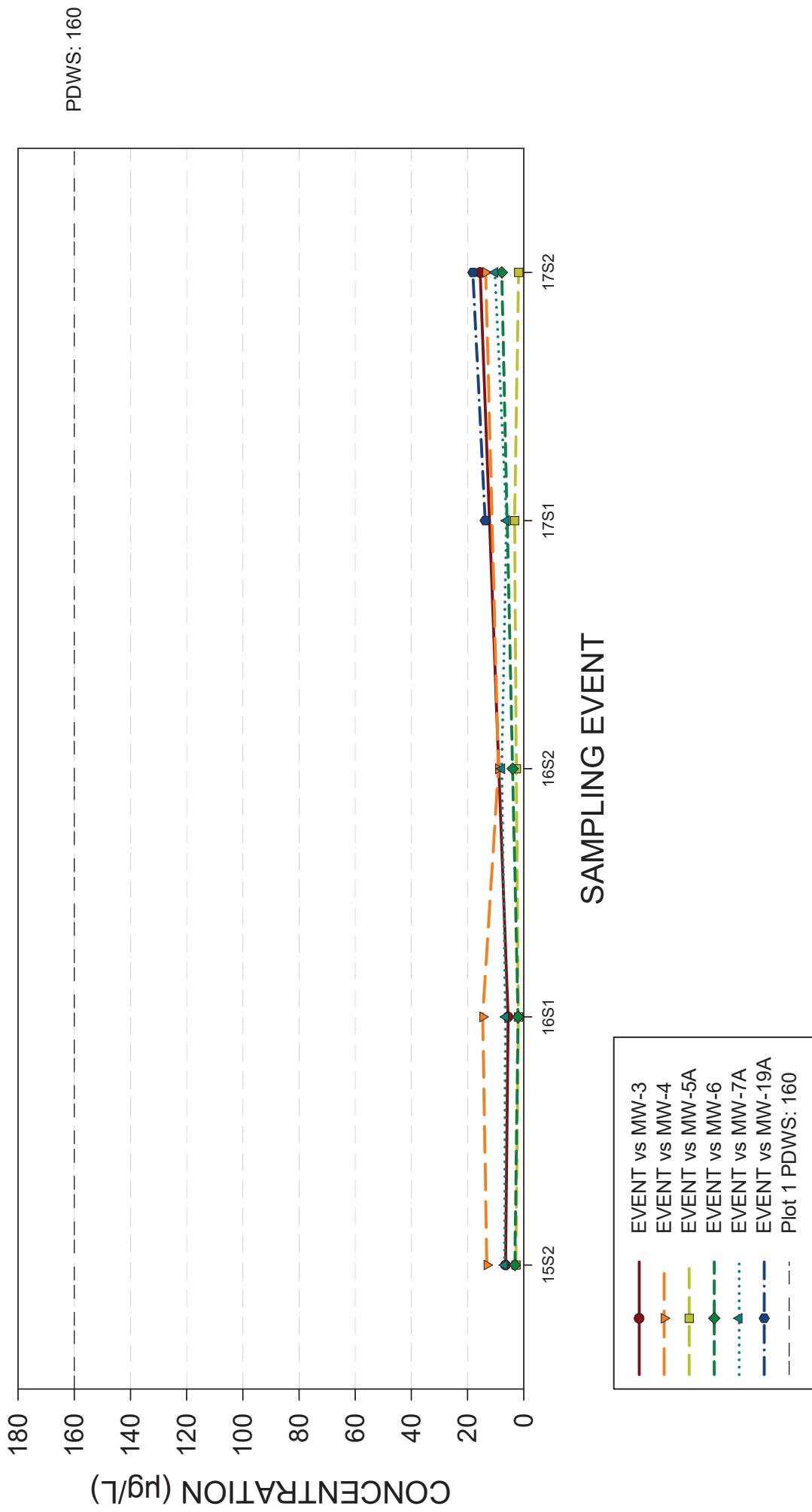
PH

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
GROUNDWATER CHEMISTRY GRAPH



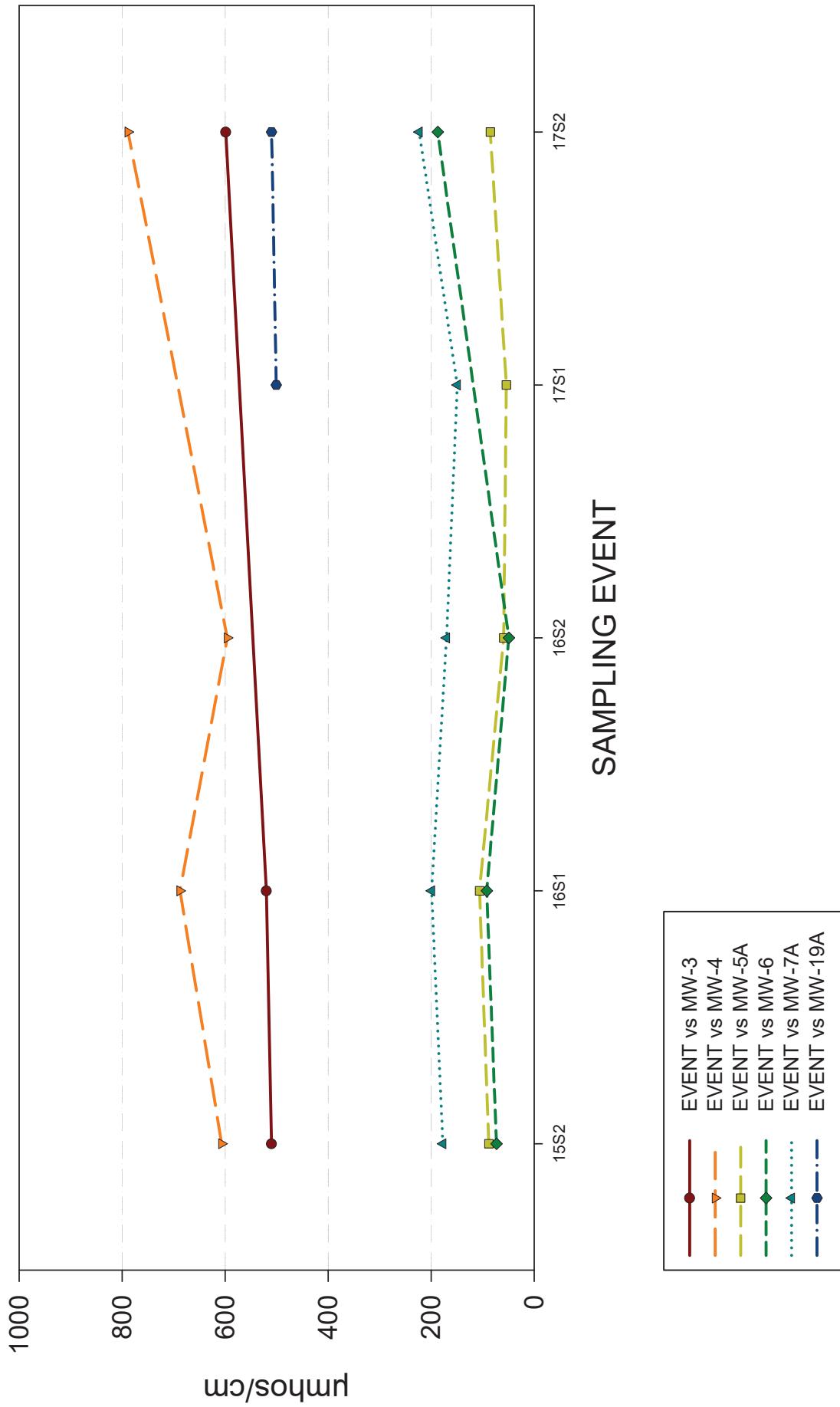
SODIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



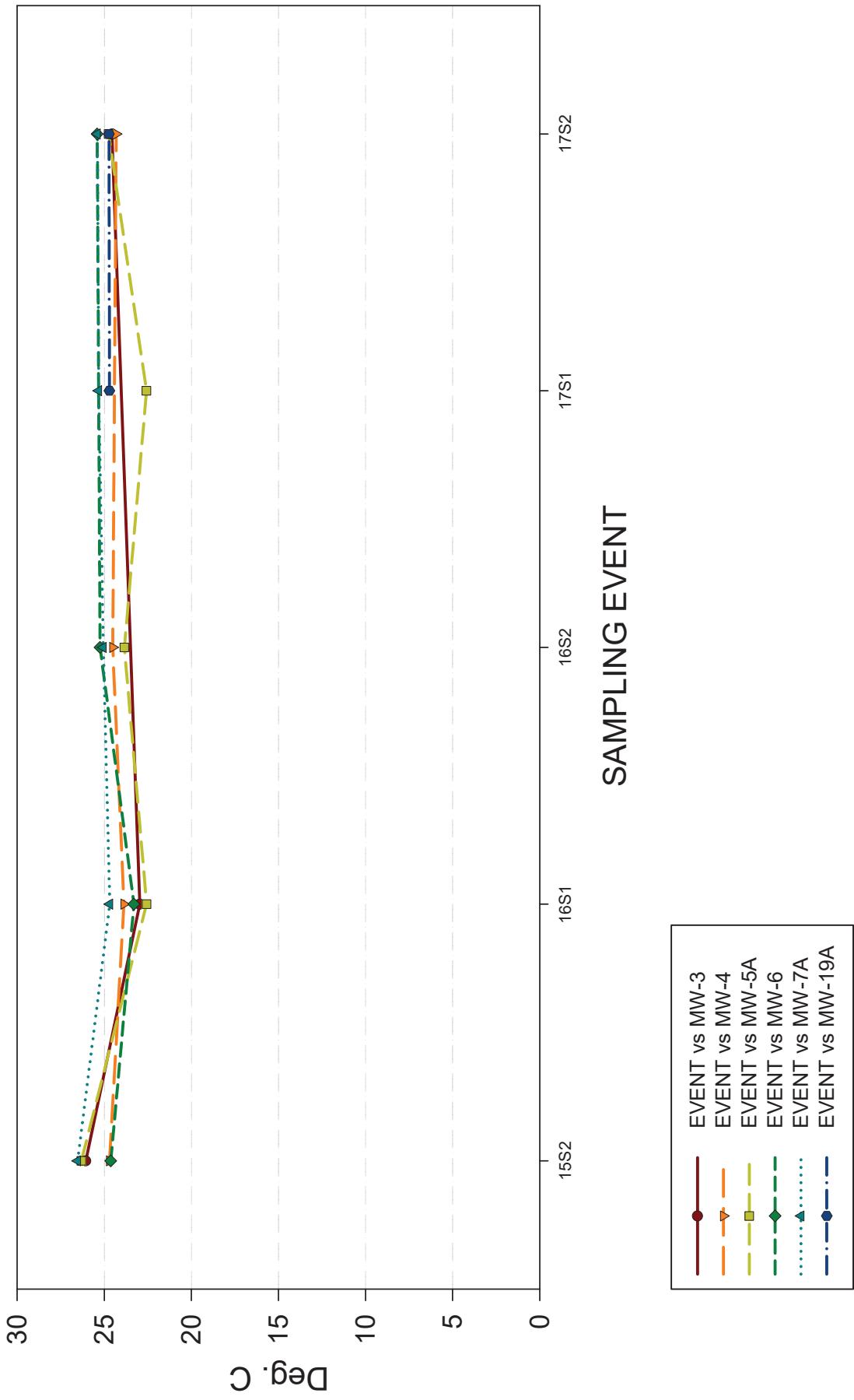
SPECIFIC CONDUCTANCE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



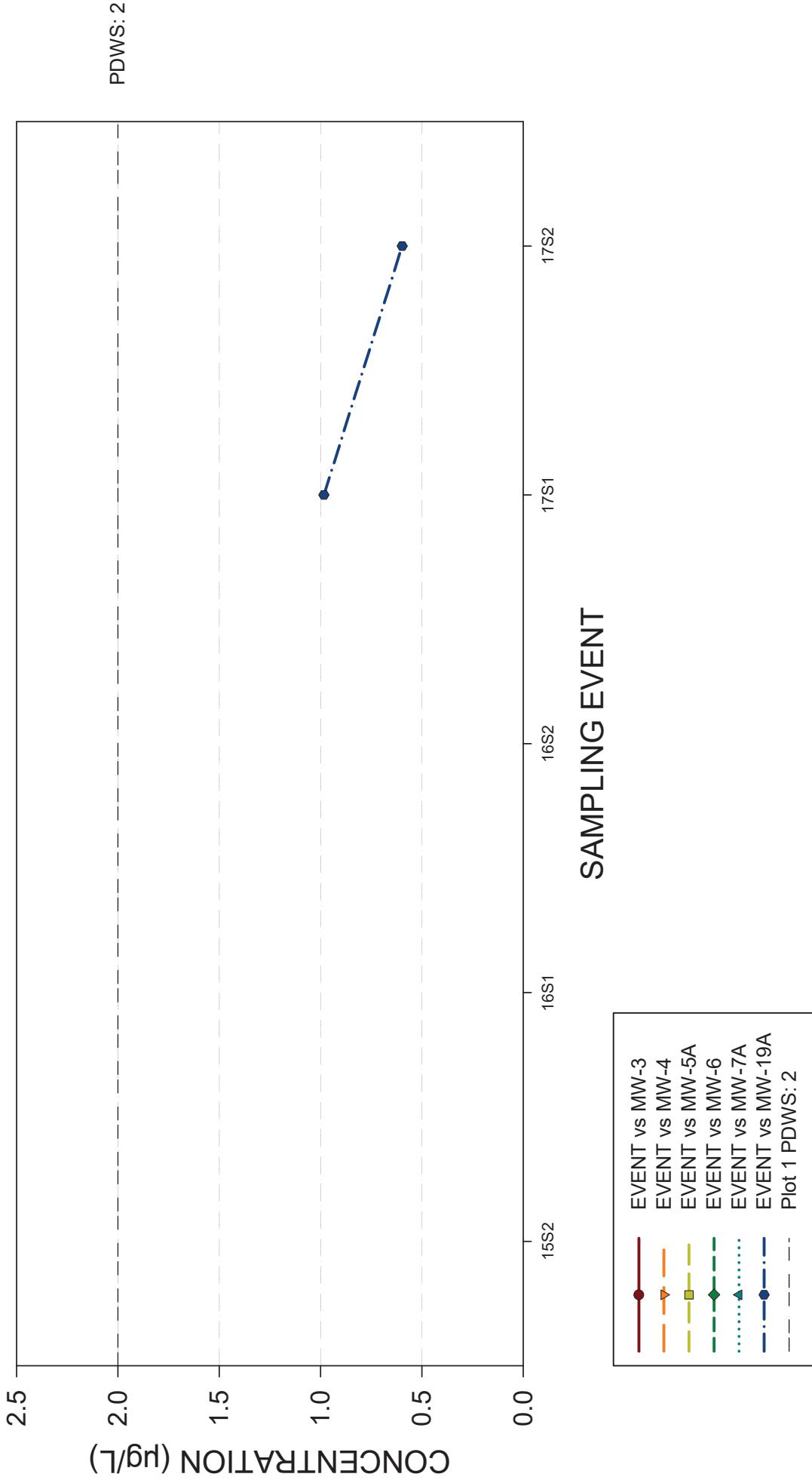
TEMPERATURE

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



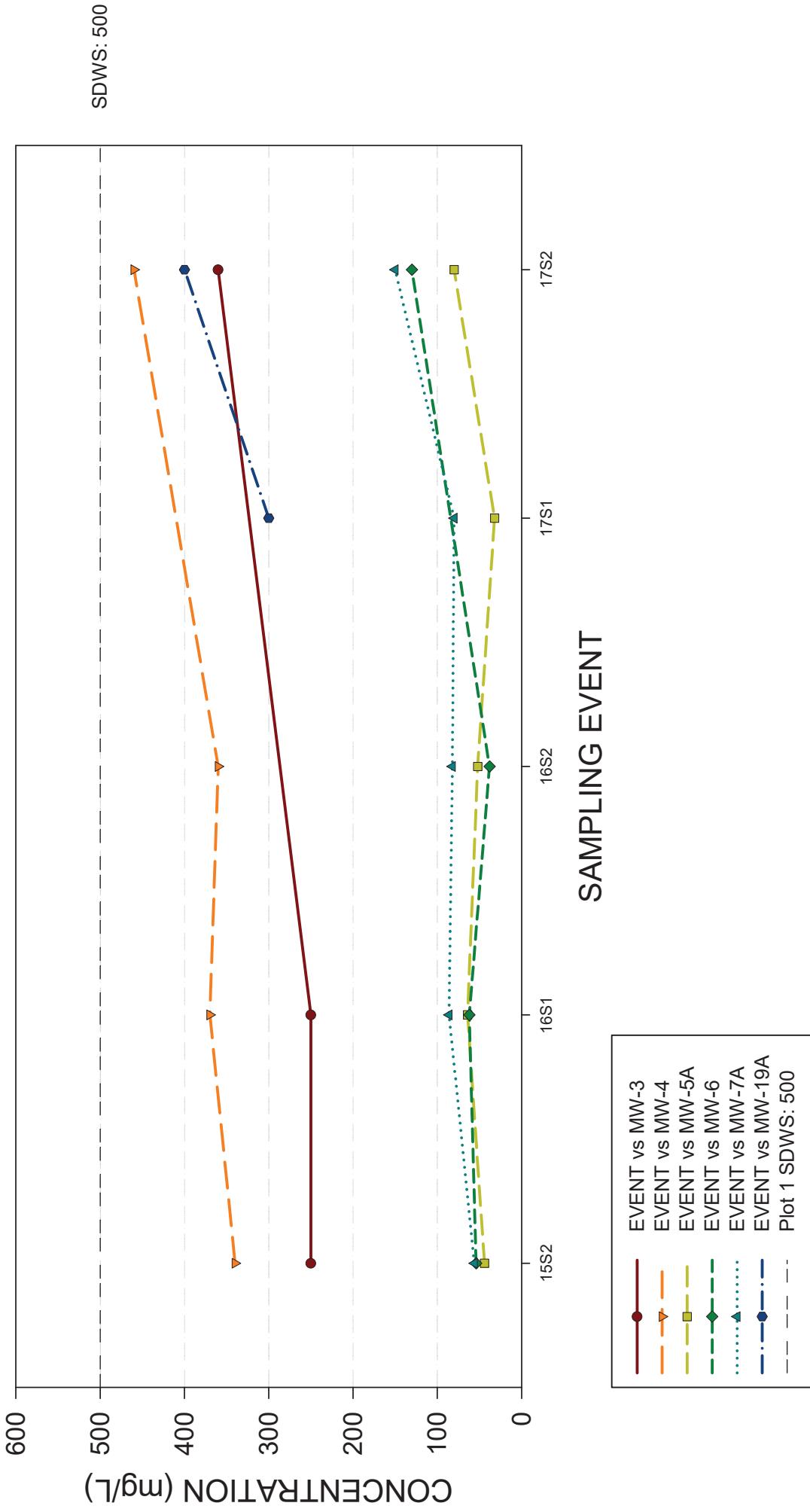
THALLIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



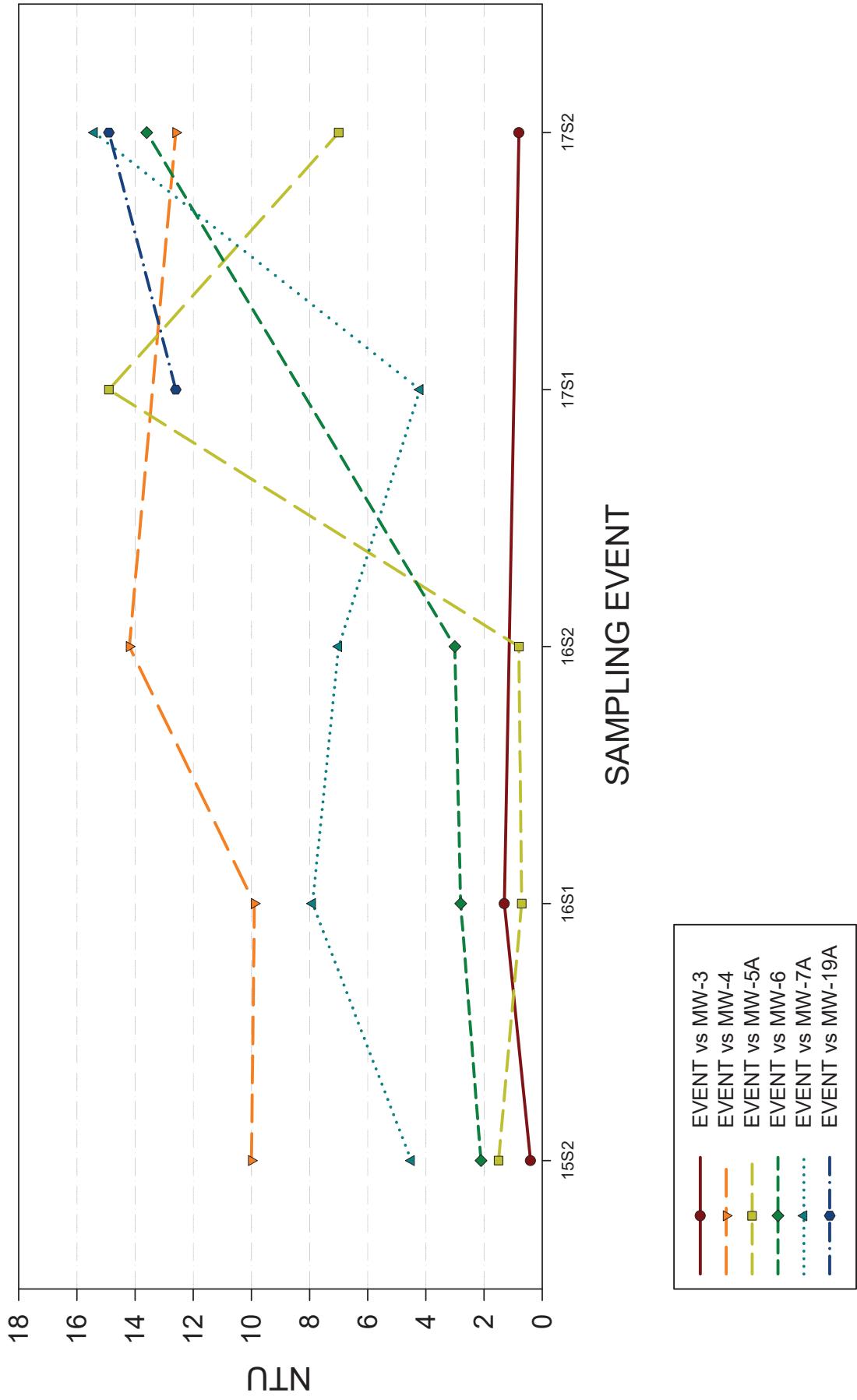
TOTAL DISSOLVED SOLIDS

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



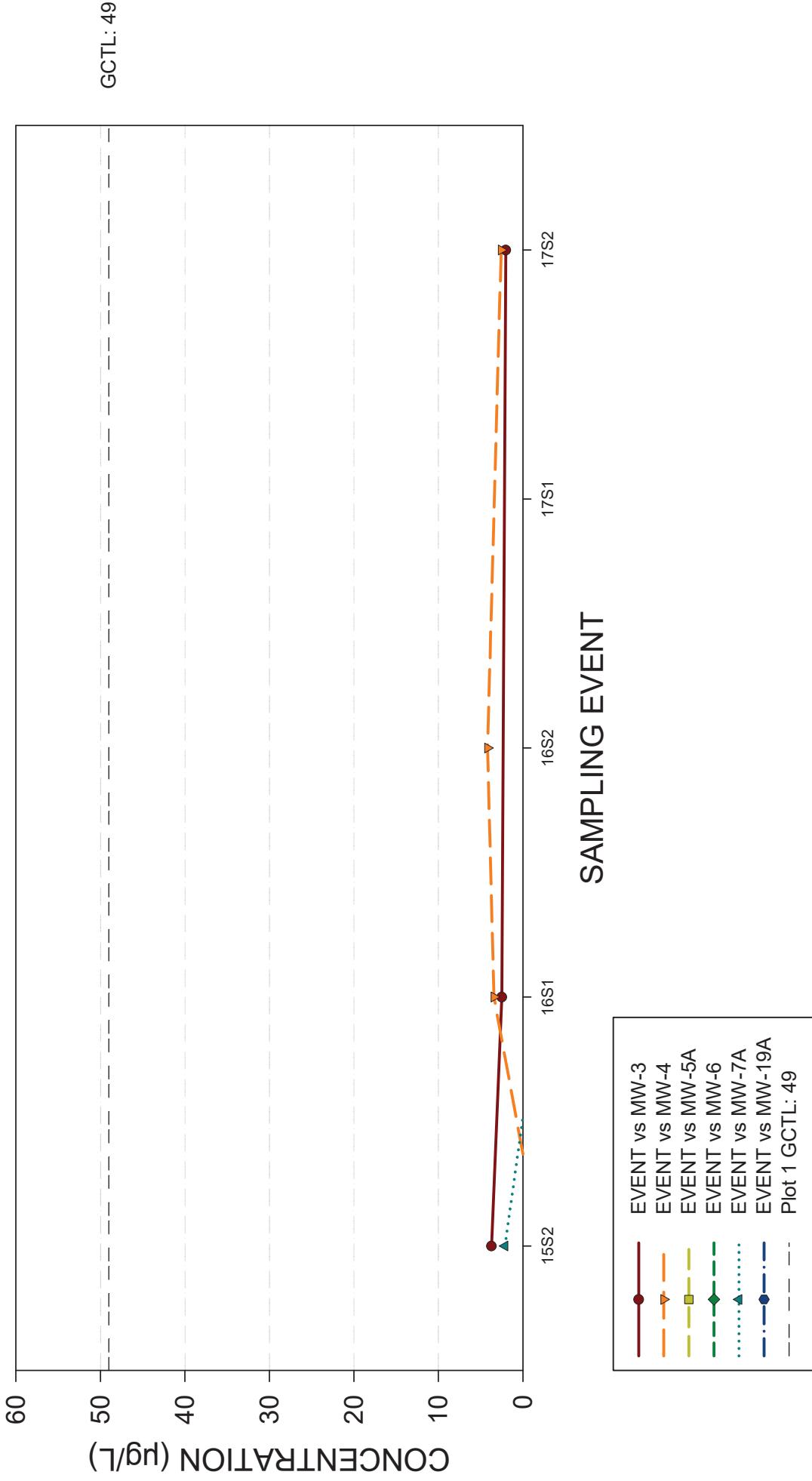
TURBIDITY

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



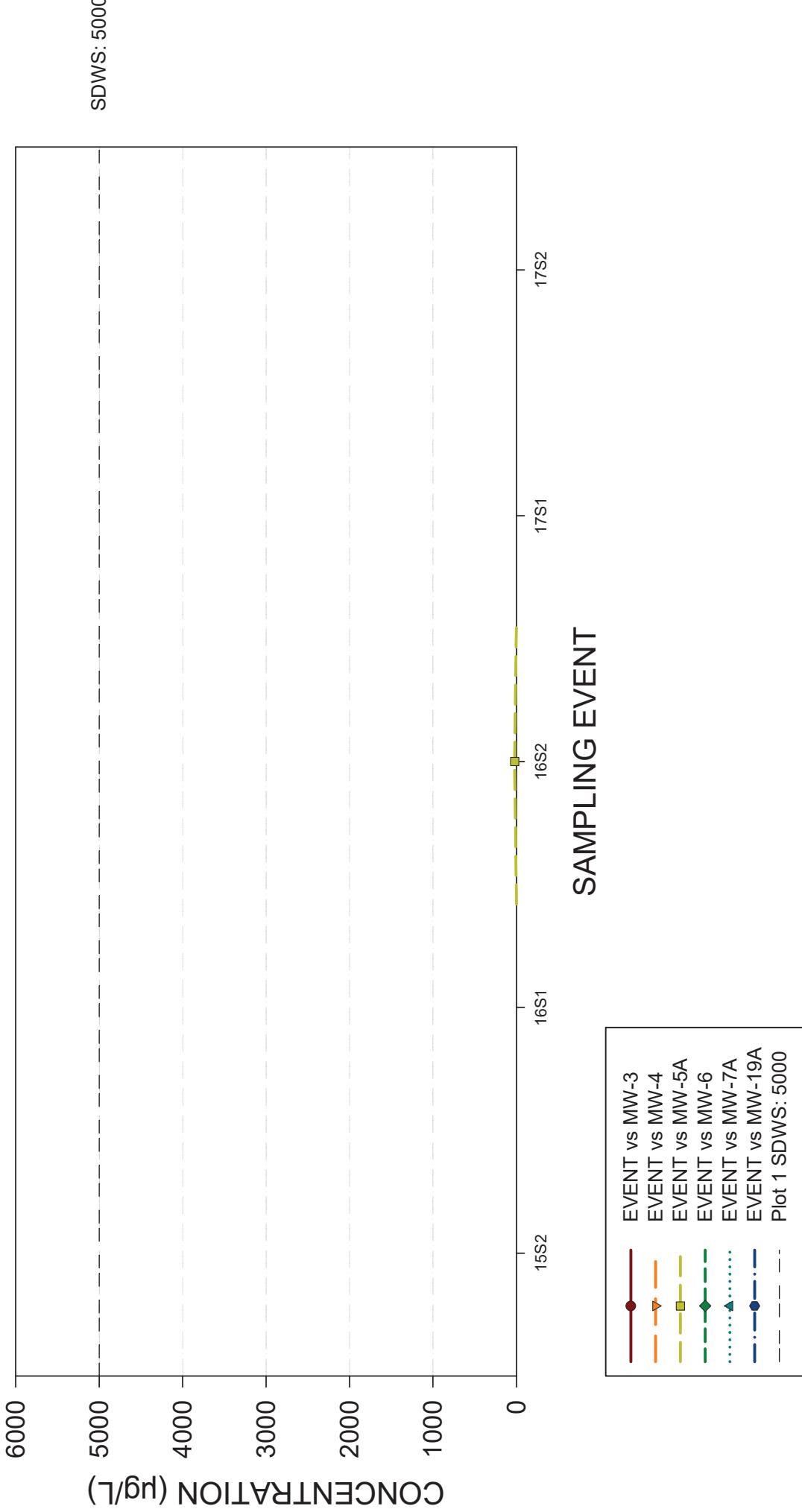
VANADIUM

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



ZINC

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CHEMISTRY GRAPH



ATTACHMENT 6

HISTORICAL DATA SUMMARY

ANGELOS AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS OR ABOVE DETECTION LIMIT

PARAMETER STANDARD UNIT	Date MM/DD/YYYY	Acetone 6300 µg/L***	Ammonia as N mg/L	Barium 2000 µg/L*	Cadmium 5 µg/L*	Chloride 250 mg/L**	Chromium 100 µg/L*	Cobalt 140 µg/L***	Copper 1000 µg/L*	Dissolved Oxygen mg/L	Iron 300 µg/L*	Lead 15 µg/L*	Mercury 2 µg/L*	Nickel 100 µg/L*	Nitrate as N 10 mg/L
Background															
BW-1B															
1552	9/23/2015	<5	<0.0073	<20	<1.1	15	<4.5	<2.1	<2.2	8.1	<38	<1.6	<0.023	<3.2	6.5
1651	2/16/2016	<5	<0.0073	<20	<1.1	24	<4.5	<2.1	<2.2	7.03	<38	<1.6	0.0386	<3.2	6.5
1652	12/28/2016	63	<0.0073	<20	<0.9	23	<4.5	<2.1	<2.2	44.7	<38	<1.6	<0.023	<3.2	6.8
1751	3/27/2017	<10	<0.0073	<20	<0.9	23	<4.5	<2.1	<2.2	7.44	<38	<1.6	<0.023	<3.2	5.7
1752	11/20/2017	<10	<0.0073	<20	<0.9	17	<4.5	<2.1	<2.2	7.91	<38	<1.6	<0.023	<3.2	6.8
Detection															
Floridian															
MW-3B															
1552	9/22/2015	<5	<0.0073	<20	<1.1	4.8	<4.5	<2.1	<2.2	1.47	<38	<1.6	<0.023	<3.2	0.6
1651	2/16/2016	<5	<0.0073	<20	<1.1	4.8	<4.5	<2.1	<2.2	1.68	<38	<1.6	0.0307	<3.2	0.57
1652	12/28/2016	26	<0.0073	<20	<0.9	6.4	<4.5	<2.1	<2.2	1.15	<38	<1.6	<0.023	<3.2	0.79
1751	3/28/2017	<10	<0.0073	<20	<0.9	5.8	<4.5	<2.1	<2.2	1.36	<38	<1.6	<0.023	<3.2	0.66
1752	11/21/2017	<10	0.22	<20	<0.9	18	<4.5	<2.1	<2.2	0.22	53.3	<1.6	<0.023	3.47	<0.052
MW-4B															
1552	9/23/2015	<5	<0.0073	<20	<1.1	3.7	<4.5	<2.1	<2.2	3.13	<38	<1.6	<0.023	<3.2	0.55
1651	2/16/2016	<5	<0.0073	<20	<1.1	4	<4.5	<2.1	<2.2	2.61	<38	<1.6	0.0339	<3.2	0.57
1652	12/28/2016	<10	<0.0073	<20	<0.9	4.4	<4.5	<2.1	<2.2	2.87	<38	<1.6	<0.023	<3.2	0.62
1751	3/28/2017	<10	<0.0073	<20	<0.9	3.9	<4.5	<2.1	<2.2	3.31	<38	<1.6	<0.023	<3.2	0.51
1752	11/21/2017	<10	<0.0073	<20	<0.9	4.2	<4.5	<2.1	<2.2	3.5	52.8	<1.6	<0.023	<3.2	0.5
MW-5B															
1552	9/22/2015	<5	<0.0073	<20	<1.1	2.9	<4.5	<2.1	<2.2	3.6	<38	<1.6	<0.023	<3.2	0.9
1651	2/16/2016	<5	<0.0073	<20	<1.1	3.2	<4.5	<2.1	<2.2	4.4	<38	<1.6	0.0364	<3.2	0.97
1652	12/28/2016	12	<0.0073	<20	<0.9	3.4	<4.5	<2.1	<2.2	3.78	<38	<1.6	<0.023	<3.2	1
1751	3/28/2017	<10	<0.0073	<20	<0.9	3.2	<4.5	<2.1	<2.2	4.6	45	3.27	<0.023	<3.2	0.84
1752	11/21/2017	<10	<0.0073	<20	<0.9	3.3	<4.5	<2.1	<2.2	3.5	52.8	<1.6	<0.023	<3.2	0.78
MW-6B															
1552	9/23/2015	<5	<0.0073	<20	<1.1	3.2	<4.5	<2.1	<2.2	2.55	<38	<1.6	<0.023	<3.2	0.91
1651	2/16/2016	<5	<0.0073	<20	<1.1	3.3	<4.5	<2.1	<2.2	2.28	<38	<1.6	0.0338	<3.2	0.97
1652	12/28/2016	18	<0.0073	<20	<0.9	3.7	<4.5	<2.1	<2.2	2.31	38.5	<1.6	<0.023	<3.2	0.99
1751	3/28/2017	<10	<0.0073	<20	<0.9	3.2	<4.5	<2.1	<2.2	2.15	<38	<1.6	<0.023	<3.2	0.76
1752	11/21/2017	<10	<0.0073	<20	<0.9	3.7	<4.5	<2.1	<2.2	2.41	58.3	<1.6	<0.023	<3.2	0.79
MW-7BR															
1552	9/21/2015	<5	<0.0073	<20	<1.1	3.8	<4.5	<2.1	<2.2	1.23	<38	<1.6	<0.023	<3.2	0.91
1651	2/15/2016	5.1	<0.0073	<20	<1.1	4.3	<4.5	<2.1	<2.2	0.88	<38	<1.6	0.0324	<3.2	0.85
1652	12/27/2016	<10	<0.0073	<20	<0.9	5.4	<4.5	<2.1	<2.2	0.92	<38	<1.6	<0.023	<3.2	1
1751	3/27/2017	<10	<0.0073	<20	<0.9	5.1	<4.5	<2.1	<2.2	1	<38	<1.6	<0.023	<3.2	0.93
1752	11/20/2017	<10	<0.0073	<20	<0.9	4.7	<4.5	<2.1	<2.2	1.43	<38	<1.6	<0.023	<3.2	0.83
MW-8B															
1552	9/21/2015	<5	<0.0073	<20	<1.1	8.5	<4.5	<2.1	<2.2	0.1	5030	<1.6	<0.023	<3.2	0.82
1651	2/15/2016	5.3	<0.0073	<20	<1.1	10	<4.5	<2.1	<2.2	0.1	4270	<1.6	0.0323	<3.2	0.85
1652	12/27/2016	<10	<0.0073	<20	<0.9	11	<4.5	<2.1	<2.2	0.13	4730	<1.6	<0.023	<3.2	1
1751	3/27/2017	<10	<0.0073	<20	<0.9	11	<4.5	<2.1	<2.2	0.12	5300	<1.6	<0.023	<3.2	0.93
1752	11/20/2017	<10	1.3	<20	<0.9	15	<4.5	<2.1	<2.2	0.19	5410	<1.6	<0.023	<3.2	0.83
MW-9B															
1552	9/21/2015	<5	0.078	<20	<1.1	5.9	<4.5	<2.1	<2.2	1.4	<38	<1.6	<0.023	<3.2	4.6
1651	2/15/2016	<5	<0.0073	23.7	<1.1	6.4	<4.5	<2.1	<2.2	1.39	<38	<1.6	0.0372	<3.2	3.8
1652	12/27/2016	<10	<0.0073	<20	<0.9	6.9	<4.5	<2.1	<2.2	2.12	<38	<1.6	<0.023	<3.2	5.8
1751	3/27/2017	<10	<0.0073	<20	<0.9	6.8	<4.5	<2.1	<2.2	2.48	<38	2.81	<0.023	<3.2	4.3
1752	11/20/2017	<10	<0.0073	<20	<0.9	7.4	<4.5	<2.1	<2.2	1.3	<38	<1.6	<0.023	<3.2	5.6
MW-10B															
1552	9/21/2015	<5	<0.0073	<20	<1.1	4.5	<4.5	<2.1	<2.2	0.24	79.7	<1.6	<0.023	<3.2	4.6
1651	2/15/2016	<5	<0.0073	22.4	<1.1	5.2	<4.5	<2.1	<2.2	0.3	<38	<1.6	0.0352	<3.2	3.8
1652	12/27/2016	<10	<0.0073	<20	<0.9	6.8	<4.5	<2.1	<2.2	0.16	<38	<1.6	<0.023	<3.2	3.1
1751	3/27/2017	<10	<0.0073	<20	<0.9	7.5	<4.5	<2.1	<2.2	0.27	<38	<1.6	<0.023	<3.2	3.8
1752	11/20/2017	<10	<0.0073	<20	<0.9	6.9	<4.5	<2.1	<2.2	0.09	<38	<1.6	<0.023	<3.2	2
MW-17B															
1552	9/22/2015	<5	<0.0073	<20	<1.1	5.9	<4.5	<2.1	<2.2	5.1	<38	<1.6	<0.023	<3.2	2.6
1651	2/15/2016	<5	<0.0073	22.5	<1.1	6.8	<4.5	<2.1	<2.2	4	<38	<1.6	0.559	<3.2	0.27
1652	12/28/2016	<10	<0.0073	<20	<0.9	7.7	<4.5	<2.1	<2.2	3.9	<38	<1.6	1.16	<3.2	2.7
1751	3/28/2017	<10	<0.0073	<20	<0.9	7.2	<4.5	<2.1	<2.2	4.04	<38	<1.6	1.24	<3.2	2.3
1752	11/24/2017	<10	<0.0073	<20	<0.9	8.4	5.2	<2.1	<2.2	4.05	<38	<1.6	0.177	<3.2	2.6

ANGELOS AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS OR ABOVE DETECTION LIMIT

PARAMETER STANDARD UNIT	Date MM/DD/YYYY	Acetone 6300 µg/L***	Ammonia as N mg/L	Barium 2000 µg/L*	Cadmium 5 µg/L*	Chloride 250 mg/L**	Chromium 100 µg/L*	Cobalt 140 µg/L***	Copper 1000 µg/L**	Dissolved Oxygen mg/L	Iron 300 µg/L**	Lead 15 µg/L*	Mercury 2 µg/L*	Nickel 100 µg/L*	Nitrate as N 10 mg/L*	
MW-18B																
1552	1651															
1652	1652	3/27/2017	<10	<0.0073	<20	<0.9	10	8.62	<2.1	0.26	77.7	<1.6	<0.023	5.78	0.94	
1751	1752	11/20/2017	<10	<0.0073	<20	<0.9	13	<4.5	<2.1	<2.2	2.83	<38	<1.6	<0.023	4.5	1.1
MW-20B																
1552	1651															
1652	1652	3/27/2017	<10	<0.0073	<20	<0.9	12	<4.5	<2.1	<2.2	4.99	184	<1.6	<0.023	<3.2	3.2
1751	1752	11/20/2017	<10	<0.0073	<20	<0.9	11	<4.5	<2.1	<2.2	5.96	121	<1.6	<0.023	<3.2	2.8
MW-3																
1552	1651	9/22/2015	<5	<0.0073	<20	<1.1	4.8	<4.5	<2.1	<2.2	3.7	<38	<1.6	<0.023	<3.2	0.5
1652	1652	2/16/2016	<5	<0.0073	23	<1.1	4.9	<4.5	<2.1	<2.2	4.92	<38	<1.6	0.04	<3.2	0.64
1751	1752	11/21/2017	<10	0.059	<20	<0.9	19	<4.5	<2.1	<2.2	1.22	<38	<1.6	<0.023	<3.2	0.21
MW-4																
1552	1651	9/23/2015	<5	<0.0073	<20	<1.1	4.7	<4.5	<2.1	<2.2	3.32	231	<1.6	<0.023	<3.2	<0.052
1652	1652	2/16/2016	5.1	<0.0073	33.8	<1.1	5.9	<4.5	<2.1	<2.2	3.5	161.	<1.6	0.0594	<3.2	0.65
1751	1752	12/28/2016	<10	<0.0073	<20	<0.9	2.8	<4.5	<2.1	<2.2	0.87	299	<1.6	<0.023	<3.2	<0.052
MW-5A																
1552	1651	9/22/2015	<5	<0.0073	<20	<1.1	2.4	<4.5	<2.1	<2.2	4.53	<38	<1.6	<0.023	<3.2	0.43
1652	1652	2/16/2016	<5	<0.0073	27.7	<1.1	1.4	<4.5	<2.1	<2.2	5.18	<38	<1.6	0.0321	<3.2	2.1
1751	1752	12/28/2016	23	<0.0073	<20	<0.9	2.2	<4.5	<2.1	<2.2	4.46	89.5	<1.6	<0.023	<3.2	0.28
MW-6																
1552	1651	9/23/2015	<5	<0.0073	<20	<1.1	2.4	<4.5	<2.1	<2.2	5.56	53.5	<1.6	<0.023	<3.2	0.87
1652	1652	2/16/2016	<5	<0.0073	23.3	<1.1	2.9	<4.5	<2.1	<2.2	5.99	80.1	<1.6	0.0435	<3.2	0.43
1751	1752	12/28/2016	10	<0.0073	<20	<0.9	2.3	<4.5	<2.1	<2.2	3.22	64.6	<1.6	<0.023	<3.2	0.61
MW-7A																
1552	1651	9/23/2015	<5	<0.0073	<20	<1.1	2.1	<4.5	<2.1	<2.2	5.56	53.5	<1.6	<0.023	<3.2	0.43
1652	1652	2/16/2016	<5	<0.0073	23.3	<1.1	2.9	<4.5	<2.1	<2.2	5.99	80.1	<1.6	0.0435	<3.2	2.1
1751	1752	12/28/2016	10	<0.0073	<20	<0.9	4.6	<4.5	<2.1	<2.2	3.22	64.6	<1.6	<0.023	<3.2	0.47
MW-7A																
1552	1651	9/21/2015	<5	0.018	<20	<1.1	10	<4.5	<2.1	<2.2	0.27	1630	<1.6	0.0324	<3.2	<0.052
1652	1652	2/15/2016	10	0.014	20.7	<1.1	10	<4.5	3.4	<2.2	0.3	766	<1.6	0.0294	<3.2	<0.052
1751	1752	12/27/2016	12	0.026	<20	<0.9	8.9	17.5	<2.1	<2.2	0.24	767	<1.6	0.094	13.2	0.14
MW-19A																
1552	1651	9/21/2015	<5	<0.0073	<20	<1.1	10	<4.5	<2.1	<2.2	0.27	1630	<1.6	0.0324	<3.2	0.43
1652	1652	2/15/2016	10	<0.0073	20.7	<1.1	10	<4.5	3.4	<2.2	0.3	766	<1.6	0.0294	<3.2	<0.052
1751	1752	12/27/2016	12	<0.0073	<20	<0.9	11	<4.5	<2.1	<2.2	0.32	424	1.65	0.431	<3.2	0.14
SUPPLY WELL																
1552	1651	9/22/2015	<5	<0.0073	<20	<1.1	12	<4.5	<2.1	<2.2	1	<38	<1.6	<0.023	<3.2	4.9
1652	1652	2/15/2016	<5	<0.0073	21.3	<1.1	9.4	<4.5	<2.1	<2.2	1.19	40	<1.6	0.0499	<3.2	2.9
1751	1752	12/28/2016	<10	<0.0073	<20	<0.9	10	<4.5	<2.1	<2.2	1.26	<38	<1.6	<0.023	<3.2	3.7
SUPPLY WELL																
1552	1651	3/27/2017	<10	<0.0073	46.3	<0.9	85	7.38	87.9	<2.2	2.5	366	4.49	<0.023	17.5	16
1652	1652	11/21/2017	<10	<0.0073	45.4	2.33	85	<4.5	20.5	<2.2	3.7	179	<1.6	<0.023	16.6	17

ANGELOS AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS OR ABOVE DETECTION LIMIT

PARAMETER STANDARD UNIT	Date MM/DD/YYYY	Oxidation/Reduction Potential mV	pH 6.5-8.5 U** S.U.	Sodium 160 mg/L*	Specific Conductance (EC) $\mu\text{hos/cm}$	Temperature $^{\circ}\text{C}$	Thallium 2 $\mu\text{g/L}^{*}$	Total Dissolved Solids 500 mg/L**	Turbidity NTU	Vanadium 49 $\mu\text{g/L}^{**}$	Zinc 5000 $\mu\text{g/L}^{**}$
Background											
BW-1B											
1552	9/23/2015	7.06	4.84	403	24.44	-0.58	220	0.2	<2	<16	
1651	2/16/2016	7.1	4.21	409	23.8	-0.58	230	0.3	3.54	<16	
1652	12/28/2016	146.3	7.27	49.3	24.04	-0.58	240	0.9	3.26	<16	
1751	3/28/2017	171.4	7.51	4.81	378	-0.58	210	0.6	<2	<16	
1752	11/21/2017	171.4	7.41	4.46	509	-0.58	24.12	310	0.6	<2	<16
Detection											
Floridian											
MW-3B											
1552	9/22/2015	6.92	7.32	273	24.44	-0.58	180	0.2	<2	<16	
1651	2/16/2016	6.67	9.42	294	24.18	-0.58	200	0.3	<2	<16	
1652	12/28/2016	6.71	10.9	265	24.41	-0.58	170	0.3	<2	<16	
1751	3/27/2017	6.51	9.47	222	24.62	-0.58	150	0.5	<2	<16	
1752	11/20/2017	6.6	8.91	277	24.32	-0.58	200	0.4	<2	<16	
Detection											
MW-4B											
1552	9/23/2015	7.47	4.45	306	23.88	-0.58	180	0.2	<2	<16	
1651	2/16/2016	7.52	4.39	317	23.68	-0.58	160	0.2	3.03	<16	
1652	12/28/2016	7.52	4.3	298	23.92	-0.58	170	0.2	4.09	<16	
1751	3/28/2017	7.68	4.23	298	23.85	-0.58	170	0.2	<2	<16	
1752	11/21/2017	161.1	7.47	5.06	332	23.83	-0.58	210	0.3	2.34	<16
MW-5B											
1552	9/22/2015	6.99	3.5	287	23.71	-0.58	150	2.7	5.82	37.1	
1651	2/16/2016	7.22	2.99	282	23.47	-0.58	150	0.8	6.93	<16	
1652	12/28/2016	117.9	7.68	2.99	296	24.36	140	2.3	7.02	<16	
1751	3/28/2017	7.59	3.35	240	24.1	-0.58	140	7.5	6.29	<16	
1752	11/21/2017	189.4	7.56	3.56	338	23.93	-0.58	210	7.7	6.82	<16
MW-6B											
1552	9/23/2015	7.29	3.67	273	23.89	-0.58	150	0.2	3.15	<16	
1651	2/16/2016	7.39	3.59	293	23.8	-0.58	160	0.2	4.44	<16	
1652	12/28/2016	129.4	7.66	3.64	261	23.88	-0.58	160	8.9	5.74	<16
1751	3/28/2017	7.66	3.64	270	24.02	-0.58	140	7.5	4.53	<16	
1752	11/21/2017	154.4	7.55	4.09	285	23.87	-0.58	190	8	5.38	<16
MW-7BR											
1552	9/21/2015	7.3	3.69	293	24.69	-0.58	130	2.5	9.65	<16	
1651	2/15/2016	7.25	3.5	302	24.42	-0.58	180	5.7	8.27	<16	
1652	12/27/2016	95.8	7.58	3.51	279	24.58	-0.58	140	9.9	8.22	<16
1751	3/27/2017	7.69	3.58	277	24.87	-0.58	150	5.1	5.76	<16	
1752	11/20/2017	154.8	7.27	4.16	310	24.47	-0.58	200	5.3	7.01	<16
MW-8B											
1552	9/21/2015	6.62	7.6	608	26.73	-0.58	290	0.5	<2	<16	
1651	2/15/2016	6.75	8.11	599	26.4	-0.58	320	0.8	<2	<16	
1652	12/27/2016	6.83	9.39	601	26.72	-0.58	320	0.3	<2	<16	
1751	3/27/2017	7.69	3.78	598	26.8	-0.58	310	0.4	<2	<16	
1752	11/20/2017	154.8	7.27	4.16	689	26.64	-0.58	370	0.5	<2	<16
MW-9B											
1552	9/21/2015	6.64	6.76	554	26.67	-0.58	270	0.6	4.96	<16	
1651	2/15/2016	6.75	8.11	534	26.01	-0.58	300	0.2	3.48	<16	
1652	12/27/2016	-93.9	6.83	7.22	512	26.62	-0.58	310	0.6	5.08	<16
1751	3/27/2017	7.62	8.24	594	26.53	-0.58	280	2.4	2.54	<16	
1752	11/20/2017	-29.8	6.92	12.6	583	26.57	-0.58	340	1	3	<16
MW-9B											
1552	9/21/2015	6.21	5.15	338	25.78	-0.58	200	0.2	4.13	<16	
1651	2/15/2016	6.82	5.78	504	25.59	-0.58	190	0.2	2.68	<16	
1652	12/27/2016	127.2	7.03	6.7	495	25.72	-0.58	190	0.4	3.76	<16
1751	3/27/2017	7.22	6.14	7.22	563	25.53	-0.58	210	0.4	<2	<16
1752	11/20/2017	160.9	7.07	8.08	557	25.77	-0.58	210	0.4	2.34	<16
MW-10B											
1552	9/22/2015	7.3	5.95	470	23.54	-0.58	240	1.3	2.21	<16	
1651	2/15/2016	7.13	6.57	533	23.39	-0.58	260	2.8	<2	<16	
1652	12/27/2016	113.2	6.7	5.04	329	23.57	-0.58	310	0.8	<2	<16
1751	3/27/2017	7.11	6.88	5.29	340	25.78	-0.58	190	0.4	<2	<16
1752	11/20/2017	217.7	6.8	5.96	357	25.77	-0.58	210	0.4	2.34	<16
MW-17B											
1552	9/22/2015	7.3	5.95	470	23.54	-0.58	240	1.3	2.21	<16	
1651	2/15/2016	7.13	6.57	533	23.39	-0.58	260	2.8	<2	<16	
1652	12/27/2016	162.5	6.91	7.55	570	23.57	-0.58	310	0.8	<2	<16
1751	3/28/2017	7.11	7.31	580	23.6	-0.58	310	1	<2	<16	
1752	11/24/2017	237.7	6.99	7.91	496	23.59	-0.58	300	2.5	<2	<16

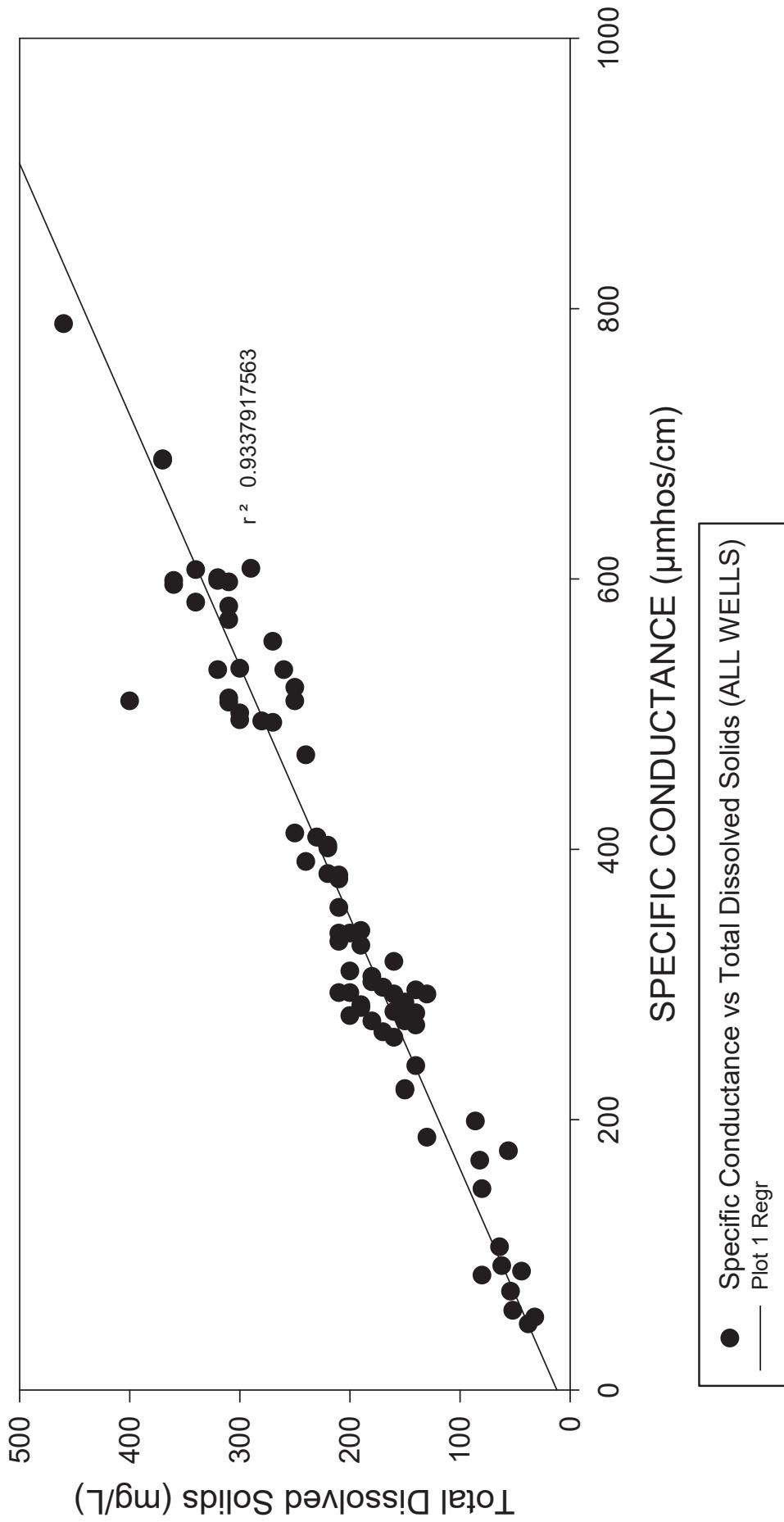
ANGELO'S AGGREGATE MATERIALS
ENTERPRISE LANDFILL
PARAMETERS AT OR ABOVE DETECTION LIMIT

ATTACHMENT 7

CORRELATION PLOT CHARTS

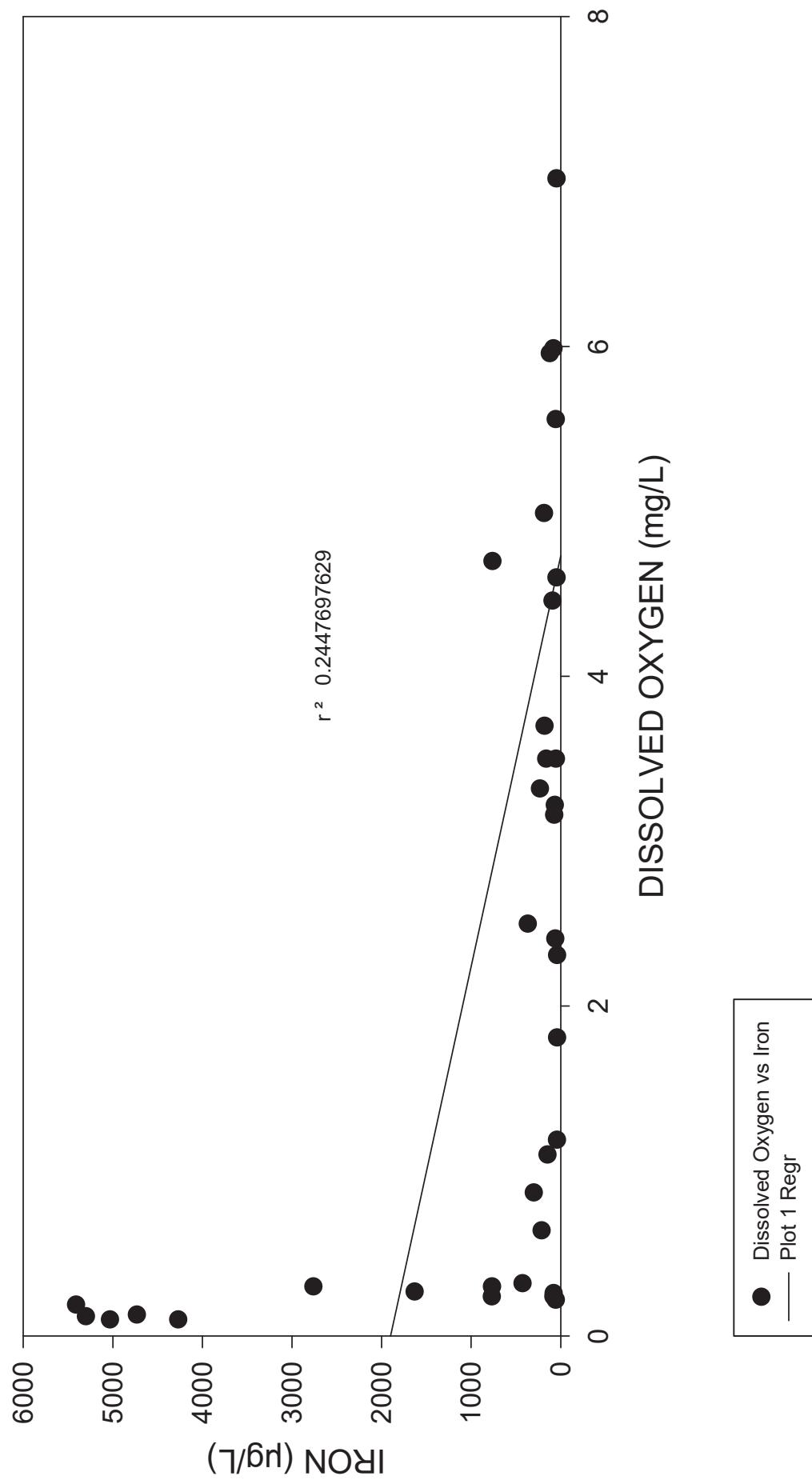
SPECIFIC CONDUCTANCE V TOTAL DISSOLVED SOLIDS

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CORRELATION



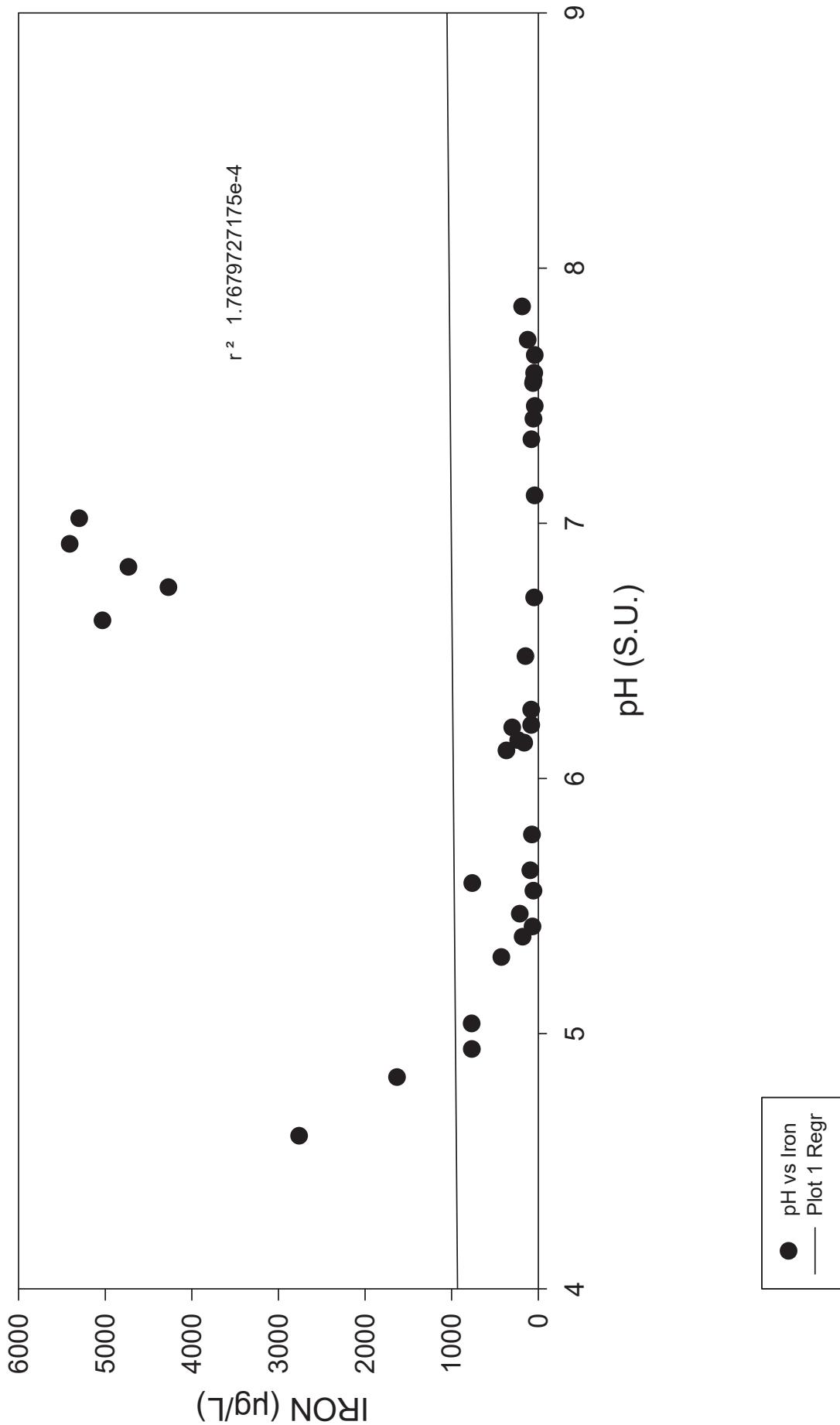
DISSOLVED OXYGEN VS IRON

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CORRELATION



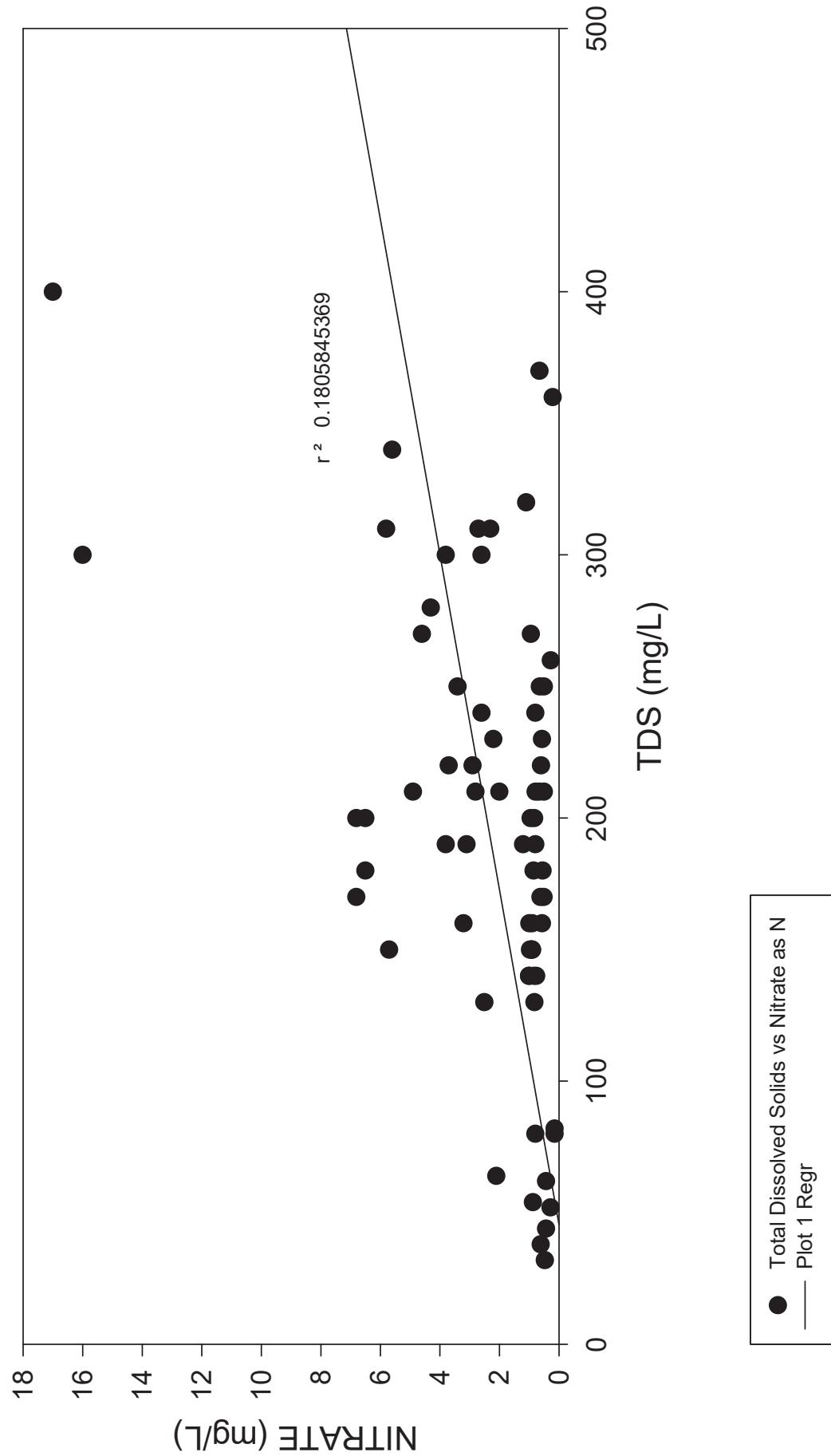
pH VS IRON

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CORRELATION



TOTAL DISSOLVED SOLIDS v NITRATE AS NITROGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CORRELATION



PH v NITRATE AS NITROGEN

ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY GROUNDWATER CORRELATION

