

April 2, 2024

Ms. Hillary Young, P.E.
Chief Engineer
Land Protection Division
Oklahoma Department of Environmental Quality
707 N. Robinson
P.O. Box 1677
Oklahoma City, OK 73162

Re: Sixth Report to Monitor Progress of Semi-Annual CMA Sampling at Landfill CCR Unit
Western Farmers Electric Cooperative (WFEC) - Hugo Power Station, Fort Towson, Oklahoma

Dear Ms. Young:

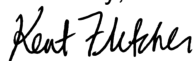
Enclosed, please find a copy of the above referenced report. This report documents semi-annual sampling conducted in September 2023 and monitors the progress of semi-annual sampling conducted to date. A copy of this report will be placed in the facility's operating record and on the facility's publicly accessible internet web-site.

Data obtained to date is promising in that molybdenum concentrations have gone down for most of the wells sampled. Additionally, molybdenum concentrations at SSLs above the GWPSs are only identified at four wells proximate to the Landfill CCR Unit and the plume has not expanded beyond the groundwater monitoring system for the Landfill CCR Unit. Based on these, the proposed corrective action alternative as per the approved Assessment of Corrective Measures Report (enhanced dewatering combined with monitored natural attenuation) appears likely to be an effective remedy to achieve the standards listed in OAC 252:517-9(b) and (c).

The next sampling event is scheduled to occur in April 2024.

Please notify me at 405-247-4298 or at k_fletcher@wfec.com if you have any questions.

Sincerely,



Kent Fletcher
Environmental Coordinator

cc: John McCreight / Western Farmers Electric Cooperative
Chris Schaefer and Bert Smith / Altamira-US, LLC

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Rural Electric Cooperative • Southeastern Electric Cooperative • Southwest Rural Electric Association

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Re: Sixth Report to Monitor Progress of Semi-Annual CMA Sampling at Landfill CCR Unit
Western Farmers Electric Cooperative – Hugo Power Station, Fort Towson, Oklahoma

Dear Ms. Young:

Assessment Monitoring at Western Farmers Electric Cooperative's (WFEC's) Hugo Power Station (HPS) has indicated molybdenum at statistically significant levels (SSLs) above established groundwater protection standards (GWPSs) in 4 of 10 downgradient monitoring wells associated with its Landfill Coal Combustion Residuals (CCR) Unit. Molybdenum has been indicated at SSLs above the GWPSs at MW-15A, MW-16, MW-18, and MW-19S.

Laboratory testing has been provided to the Oklahoma Department of Environmental Quality (ODEQ) that shows the molybdenum adsorbs to the native rock material and does not leach from the native rock to groundwater. Furthermore, hydrogeologic characterization performed shows very slow groundwater movement with limited transport of molybdenum that has not, and probably will not, leave the HPS site property boundary at concentrations exceeding the GWPSs. A preliminary risk evaluation was performed and submitted to the ODEQ indicating the groundwater constituents do not pose a hazard to potential on-site or off-site human or ecological receptors.

An Assessment of Corrective Measures Report was submitted to ODEQ on October 27, 2020. Based on evaluations included in the Assessment of Corrective Measures Report, source control via enhanced dewatering combined with monitored natural attenuation (MNA) was proposed as a corrective measure alternative for the molybdenum. A minimum of two years of semi-annual sampling of monitoring wells downgradient of the Landfill CCR Unit was proposed to establish the effectiveness of this alternative prior to selection of a final remedy. The Assessment of Corrective Measures Report and the two-year sample and evaluation period were approved by ODEQ on December 29, 2020, contingent upon submittal of semi-annual reports to ODEQ to monitor progress.

The two-year sampling period was completed in October 2022. Findings from each semi-annual sampling event were reported to the ODEQ, with findings from the final two-year semi-annual sampling event provided to ODEQ in the Fourth Report to Monitor Progress of Semi-Annual Corrective Measures Assessment (CMA) Sampling at Landfill CCR Unit. Data obtained during the two-year semi-annual groundwater sampling is encouraging in that molybdenum concentrations have gone down for most of the wells sampled. Additionally, molybdenum concentrations at SSLs above the GWPSs continue to be identified at only four wells proximal to the Landfill CCR Unit and such exceedances have not expanded beyond the groundwater monitoring system established for the Landfill CCR Unit. The report proposed an additional two years of semi-annual monitoring and reporting to fully evaluate the proposed remedy and to meet the standards listed in OAC 252:517-9(b) and (c). The report was accepted by ODEQ in its letter dated May 23, 2023.

This submittal constitutes the second semi-annual report for the third year of monitoring (2023) and is the sixth semi-annual report to monitor progress of corrective measure assessment sampling at the Landfill CCR Unit.

ACTIVITIES COMPLETED

- 1) Dewatering of the Landfill CCR Unit was initiated in March 2020 and continues as water accumulates in the Landfill CCR Unit following rainfall events. Standing water that accumulates in the Landfill CCR Unit following rainfall is pumped from the north side of the CCR Unit as practicable and conveyed to Impoundment FO8 pursuant to OPDES permit (OK0035327). The Landfill CCR Unit does not contain sufficient standing water to pump during periods of little or no rainfall. Conversely, several consecutive days of pumping may be required to remove standing water from the Landfill CCR Unit after large rainfall events. From the start of dewatering through January 24, 2024, a total of 3,897.9 hours of pumping have been conducted from the north cell and 1,507.4 hours of pumping have been conducted from the south cell of the Landfill CCR Unit to prevent standing water from accumulating in the Landfill CCR Unit. WFEC continues to maintain stormwater run-on controls to limit surface water entering into the Landfill CCR Unit.
- 2) The sixth semi-annual sampling of select monitoring wells as proposed in the approved Fourth Report to Monitor Progress of Semi-Annual Corrective Measures Assessment (CMA) Sampling at Landfill CCR Unit was conducted in September 2023. Wells sampled include the 4 wells where molybdenum had been identified at SSLs above the GWPS (MW-15A, MW-16, MW-18, and MW-19S), and monitoring wells MW-5S, MW-7S, MW-15B, MW-17, MW-22A, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B. The approximate locations of monitoring wells sampled are shown on the figure in **Attachment A**. Monitoring well MW-14A was also sampled to evaluate background conditions.

- 3) Each of these wells was purged prior to sampling. Purging was accomplished using dedicated submersible pumps (MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, MW-19S, and MW-22A), dedicated peristaltic pumps (CM-1A, CM-1B, and CM-2), and dedicated bailers (MW-15B, MW-22B, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B). Field readings of temperature, pH, and conductivity were maintained during purging of the wells. Purging was continued until water was sufficiently clear and field readings stabilized (where using submersible and peristaltic pumps) or until a well was purged dry (when bailing).
- 4) Groundwater samples were collected after purging. The groundwater samples were collected using dedicated submersible pumps, dedicated peristaltic pumps, or dedicated bailers and placed directly into appropriately preserved laboratory-prepared containers. The samples were labeled as to sample location, placed under chain-of-custody control, packed in ice, and shipped to ALS Environmental Laboratories (Oklahoma Certification 2023-140).
- 5) Each of the monitoring wells were sampled and the samples analyzed for parameters listed in the approved Assessment of Corrective Measures Report. Sampling parameters included molybdenum, dissolved molybdenum, and CCR Appendix III parameters (boron, chloride, pH, TDS, calcium, fluoride, and sulfate). Additionally, wells were monitored for indicator parameters to evaluate MNA. These indicator parameters included oxidation reduction potential (ORP), pH, specific conductance, total dissolved solids, nitrate, sulfide, total and dissolved iron, total and dissolved ferrous iron (Fe(II)), total and dissolved ferric iron (Fe(III)), dissolved oxygen (DO), and alkalinity. Samples for TDS, sulfide, nitrate, alkalinity, and all of the iron species were analyzed at the laboratory. The ORP and DO for each well were measured in the field. Specific conductance and pH for each well were both measured in the field and analyzed at the laboratory.

EVALUATION OF DATA

Laboratory reports from the September 2023 sampling are included in **Attachment B**. A running and updated tabulation of data to include results from the September 2023 sampling is contained in **Attachment C**. Oxidation-reduction reactions typically dictate molybdenum mobilization with molybdenum increasing in concentration as a result of reducing conditions, pH-induced desorption/dissolution, and microbial dissimilatory processes. Mineral co-precipitation/re-adsorption reactions typically dictate molybdenum immobilization. The data from the September 2023 sampling were compared to previously available data and evaluated to discern changes in molybdenum concentration and changes in the subsurface environment over time and distance. The following observations are made from these evaluations:

- 1) The September 2023 sampling was the fifteenth sampling event for molybdenum (dating to August 2017) at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, and MW-19S; the fourteenth sampling event for molybdenum (dating to August 2017) at monitoring well MW-22A; the eighth sampling event for molybdenum (dating to July 2020) at monitoring wells MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B; and the seventh sampling event for molybdenum at CM-3B (sufficient water was not available to sample CM-3B during the October 2021 sample event).
- 2) From September 2023 sampling, molybdenum was only identified at SSLs above GWPSs at MW-15A, MW-16, MW-18, and MW-19S. Reported molybdenum concentrations at these wells in decreasing order were 0.450 mg/L at MW-19S (east of the southern cell of the Landfill CCR Unit), 0.197 mg/L at MW-18 (east of the southern cell of the Landfill CCR Unit), 0.158 mg/L at MW-15A (north of the northern Landfill CCR Unit), and 0.103 mg/L at MW-16 (east of the northern Landfill CCR Unit). Molybdenum concentrations attenuate significantly with distance from the Landfill CCR Unit. These wells had historically seen molybdenum levels above the GWPSs, and no new exceedances of the GWPSs were identified in any of the other wells.
- 3) Charts showing changes in molybdenum concentration over sampling history for each of the monitoring wells evaluated are included in **Attachment D**. These charts include a line of best fit generated by the Excel Trend Function using the least squares method. In most cases, the molybdenum concentration in site monitoring wells appears to have gone down slightly over the sampling history. The only exception is at monitoring well MW-19S. At MW-19S, the reported molybdenum concentration for September 2023 sampling is slightly higher than those from the previous recent sampling events but is within historical range for molybdenum concentration at this well. At CM-3B interpretation of changes in molybdenum concentrations are based on only seven sampling events conducted between August 2020 and September 2023 (sufficient water was not available in October 2021 for sample collection).

For each of the monitoring wells the mean molybdenum concentration from the four most recent sampling events was compared to the mean molybdenum concentration from sampling prior to the four most recent sampling events. The laboratory reporting level was used for determining mean concentrations where molybdenum was not identified. A comparison of mean molybdenum concentration from the four most recent sample events to that for the prior sampling events for wells evaluated is included in **Attachment E**. At all wells evaluated, except at MW-19S, the mean of the four most recent sampling events for molybdenum is lower than the mean from the prior molybdenum data. At MW-19S the mean from the four most recent sampling events is slightly above but similar to that from the previous data.

- MW-5S: Molybdenum concentration from the September 2023 sampling event (0.00307 mg/L) is higher than that reported from the previous sampling event (0.00211 mg/L) but is on the low end of concentrations historically reported at this well. The highest molybdenum concentration over the sampling history is 0.00737 mg/L in August 2017. Prior to October 2019 sampling, molybdenum concentrations were typically greater than 0.004 mg/L at this well. Molybdenum concentrations reported since that time have not exceeded 0.004 mg/L and have often been below 0.003 mg/L. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00246 mg/L) is approximately 42% lower than the mean molybdenum concentration reported from sampling at this well conducted between August 2017 through October 2021 (0.00424 mg/L).
- MW-7S: Molybdenum concentration from September 2023 sampling (0.00135 mg/L) is higher than that reported from the previous sampling event (0.000973 mg/L) but is within typical range for molybdenum concentration reported at this well. The highest detected molybdenum concentration over the sampling history is 0.00171 mg/L in August 2017. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00108 mg/L) is approximately 43% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 through October 2021 (0.00189 mg/L).
- MW-14A: This monitoring well is an up-gradient background well. Molybdenum was not observed from September 2023 sampling at a concentration above the Method Detection Level (<0.0006 mg/L). Over the sampling history, the molybdenum at this well has decreased from a detection of 0.00223 mg/L in August 2017 to <0.0006 mg/L. Molybdenum has not been identified above the Method Detection Level since June 2020 sampling. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (<0.00060 mg/L) is at least 77% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 through October 2021 (0.00266 mg/L).
- MW-15A: Molybdenum concentration from September 2023 sampling (0.158 mg/L) is lower than that reported from the previous sampling event (0.173 mg/L) and is on the low end of concentrations historically reported at this well. The highest molybdenum concentrations over the sampling history are 0.269 mg/L in June 2020 and 0.255 mg/L in August 2017. Prior to October 2019 sampling, molybdenum concentrations were typically greater than 0.2 mg/L at this well. Molybdenum concentrations reported since that time have been below 0.2 mg/L with the exception of that reported from the June 2020 sampling. A line of best fit over the sampling

period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.16525 mg/L) is approximately 19% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 through October 2021 (0.20409 mg/L).

- MW-15B: Molybdenum concentration from September 2023 sampling is below the reporting limit (<0.0012 mg/L). This is lower than the reported concentration from the previous sampling event (0.0016 mg/L) and is the lowest molybdenum concentration reported at this well to date. Through eight sampling events, molybdenum concentration in this well has decreased from 0.0109 mg/L (in July 2020) to the current level. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00201 mg/L) is approximately 72% lower than the mean molybdenum concentration from sampling conducted at this well between July 2020 through October 2021 (0.00716 mg/L).
- MW-16: Molybdenum concentration from September 2023 sampling (0.103 mg/L) is lower than that reported from the previous sampling event (0.127 mg/L) and is the lowest molybdenum concentration reported at this well to date. The highest molybdenum concentration for this well (0.193 mg/L) occurred in April 2019. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). The mean molybdenum concentration over the past four sampling events at this well (0.12225 mg/L) is approximately 26% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 through October 2021 (0.16555 mg/L).
- MW-17: Molybdenum was not observed above the laboratory reporting level (<0.00060 mg/L) during September 2023 sampling and is not typically observed at concentrations above the laboratory reporting level at this well. Molybdenum was most recently observed above the laboratory reporting level during the March/April 2021 sampling event. A line of best fit over the sampling period indicates a negative slope (apparent downward trend) and the mean molybdenum concentration over the past four sampling events at this well (<0.0006 mg/L) is approximately 23% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 through October 2021 (0.00079 mg/L). These differences are due primarily to a decrease in the laboratory reporting level.
- MW-18: Molybdenum concentration from September 2023 sampling (0.197 mg/L) is lower than that reported from the previous sampling event (0.232 mg/L) and is on the low end of those previously reported at this well. Over the sampling history, the molybdenum concentration at this well has decreased from 0.39 mg/L in August 2017

to current levels. Concentrations greater than 0.3 mg/L have not been observed since April 2019. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.2045 mg/L) is approximately 21% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 through October 2021 (0.26018 mg/L).

- MW-19S: Molybdenum concentration from September 2023 sampling (0.450 mg/L) is higher than that from the previous sampling event (0.362 mg/L). The mean molybdenum concentration over the past four sampling events at this well (0.42175 mg/L) is slightly above the mean molybdenum concentration from sampling conducted at this well between August 2017 through October 2021 (0.38991 mg/L). However, the molybdenum concentration at this well has decreased over the sampling history from 0.472 mg/L in January 2019 and the current reported molybdenum concentration is lower than concentrations often observed at this well prior to October 2019.
- MW-22A: Molybdenum was not observed above the laboratory reporting level (<0.00060 mg/L) during September 2023 sampling and is not typically observed at concentrations above the laboratory reporting level at this well. Molybdenum was previously observed above the laboratory reporting levels during September 2019 and March/April 2022 sampling events. A line of best fit over the sampling period indicates a negative slope (apparent downward trend) and the mean molybdenum concentration over the past four sampling events at this well (0.00074 mg/L) is similar to the mean molybdenum concentration from sampling conducted at this well between August 2017 through October 2021 (0.00074 mg/L).
- MW-22B: Molybdenum concentration from September 2023 sampling (0.0028 mg/L) is lower than that reported from the previous sampling event (0.00389 mg/L) and is on the low end of concentrations historically reported at this well. Over the sampling history, the molybdenum concentration at this well has decreased from 0.00878 mg/L in July 2020 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00283 mg/L) is approximately 62% lower than the mean molybdenum concentration from sampling conducted at this well between July 2020 through October 2021 (0.00736 mg/L).
- CM-1A: Molybdenum was not observed above the laboratory reporting level (<0.00060 mg/L) during September 2023 sampling and has not been observed at concentrations above the laboratory reporting level since October 2021 sampling. Over the sampling history, molybdenum concentration at this well has decreased from 0.0088 mg/L in July 2020 to current levels. A line of best fit over the sampling

period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (<0.0006 mg/L) is at least 82% lower than the mean molybdenum concentration from sampling conducted at this well between July 2020 through October 2021 (0.00334 mg/L).

- CM-1B: The reported concentration from the September 2023 sampling event (0.005 mg/L) is slightly higher than that reported from the previous sampling event (0.00488 mg/L) but is on the low end of concentrations historically reported at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0144 mg/L in October 2020 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00559 mg/L) is approximately 54% lower than the mean molybdenum concentration from sampling conducted at this well between July 2020 through October 2021 (0.01219 mg/L).
- CM-2: Molybdenum was not observed above the laboratory reporting level (<0.00060 mg/L) during September 2023 sampling. Over the sampling history, molybdenum concentration at this well has decreased from 0.00209 mg/L in July 2020 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00089 mg/L) is approximately 49% lower than the mean molybdenum concentration from sampling conducted at this well between July 2020 through October 2021 (0.00173 mg/L).
- CM-3A: Molybdenum concentration from September 2023 sampling (0.00187 mg/L) is lower than that reported from the previous sampling event (0.00503 mg/L) and is on the low end of concentrations historically reported at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0457 mg/L in August 2020 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00375 mg/L) is approximately 83% lower than the mean molybdenum concentration from the mean molybdenum concentration from sampling conducted at this well between July/August 2020 through October 2021 (0.02154 mg/L).
- CM-3B: Molybdenum concentration from September 2023 sampling (0.0049 mg/L) is less than that reported from the previous sampling event (0.016 mg/L), and is the lowest molybdenum concentration reported to date at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0353 mg/L in April 2021 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum

concentration over the past four sampling events at this well (0.01162 mg/L) is approximately 65% lower than the mean molybdenum concentration from sampling conducted at this well between July/August 2020 through April 2021 (0.03327 mg/L). This well did not contain sufficient water to sample in October 2021.

- CM-4A: The reported concentration from the September 2023 sampling event (0.00825 mg/L) is higher than that reported from the previous sampling event (0.00436 mg/L) but is on the low end of concentrations historically reported at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0271 mg/L in October 2020. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00541 mg/L) is approximately 75% lower than the mean molybdenum concentration from sampling conducted at this well between July/August 2020 through October 2021 (0.02143 mg/L).
- CM-4B: Molybdenum concentration from September 2023 sampling (0.0105 mg/L) is lower than that reported from the previous sampling event (0.0123 mg/L) and is on the low end of concentrations historically reported at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0307 mg/L in July 2020 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.01085 mg/L) is approximately 58% lower than the mean molybdenum concentration from sampling conducted at this well between July/August 2020 through October 2021 (0.02618 mg/L).
- CM-5A: The reported concentration from the September 2023 sampling event (0.00455 mg/L) is higher than that reported from the previous sampling event (0.00276 mg/L) but is on the low end of concentrations historically reported at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0205 mg/L in July 2020 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00350 mg/L) is approximately 75% lower than the mean molybdenum concentration from sampling conducted at this well between July/August 2020 through October 2021 (0.01388 mg/L).
- CM-5B: The reported concentration from the September 2023 sampling event (0.00871 mg/L) is the lowest molybdenum concentration reported to date at this well. Over the sampling history, molybdenum concentration at this well has decreased from 0.0536 mg/L in March 2021 to current levels. A line of best fit over the sampling

period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.01690 mg/L) is approximately 62% lower than the mean molybdenum concentration from sampling conducted at this well between July/August 2020 through October 2021 (0.04445 mg/L).

- 4) The monitoring wells were sampled for CCR Appendix III parameters (boron, chloride, pH, TDS, calcium, fluoride, and sulfate). The September 2023 sampling was the fifteenth sampling event for these compounds when sampled concurrently with molybdenum (dating to August 2017) at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, and MW-19S; the fourteenth sampling event for these compounds when sampled concurrently with molybdenum (dating to August 2017) at monitoring well MW-22A; the eighth sampling event for these compounds when sampled concurrently with molybdenum (dating to July 2020) at monitoring wells MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B, and the seventh sampling event for these compounds when sampled concurrently with molybdenum (dating to July 2020) at CM-3B (sufficient water was not available to sample CM-3B during the October 2021 sample event).

Because of limited water availability due to low well yield, field pH and/or lab pH could not be obtained during all sampling events at some of the wells (CM-1B, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, CM-5B, and MW-15B). Also, limited water availability precluded sampling of CM-1B for TDS, fluoride, and sulfate in March/April 2021. Charts comparing changes in concentration over time for CCR Appendix III parameters to changes in molybdenum concentration for each of the monitoring wells evaluated are included in **Attachment F**.

Boron: Boron concentration does not necessarily appear to correlate to higher or lower molybdenum concentration. Over the sampling period, the five highest average boron concentrations (in order) occur at wells MW-19S, MW-18, CM-5A, MW-15B, and CM-5B. The five highest average molybdenum concentrations (in order) appear at wells MW-19S, MW-18, MW-15A, MW-16, and CM-5B. Wells MW-18, MW-19S, and CM-5B consistently exhibit both relatively high molybdenum and boron concentrations. Wells MW-15B and CM-5A typically exhibit relatively high boron but lower molybdenum concentrations.

At MW-14A and MW-18 the mean boron concentration over the past four sampling events is more than 10% lower than the mean boron concentration from prior sampling (indicating a general overall decrease in boron concentration at these wells). An overall decrease in molybdenum concentration is also indicated at these wells. At MW-15B, MW-16, MW-19S, MW-22B, CM-1B, CM-3B, CM-4B, CM-5A, and CM-5B the mean boron concentration over the past four sampling events is more than 10%

greater than the mean boron concentration from prior sampling (indicating an overall general increase in boron concentration at these wells), even though an overall decrease in molybdenum concentration is indicated at these wells with the exception of MW-19S. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in boron concentration.

From **Attachment F-1**, possible correlations between fluctuation in molybdenum and boron concentrations may exist at some of the wells (particularly at MW-14A, MW-15A, MW-19S, MW-22B, CM-2, CM-3A, and CM-3B). Possible inverse correlations may exist at other wells (particularly at CM-1B, CM-4B and CM-5B).

Chloride: Chloride concentration does not necessarily appear to correlate to higher or lower molybdenum concentration. Over the sampling period, the five highest average chloride concentrations (in order) occur at wells CM-5B, CM-5A, CM-1B, CM-4B, and CM-4A. The five highest average molybdenum concentrations (in order) appear at wells MW-19S, MW-18, MW-15A, MW-16, and CM-5B. Only MW-5B consistently exhibits both relatively high molybdenum and chloride concentrations. The lowest chloride concentrations typically occur at MW-22A, CM-2, MW-17, and MW-18. Of these, molybdenum concentrations are typically high and indicated at SSLs above the GWPSs at MW-18. Conversely, MW-22A, CM-2, and MW-17 typically do not exhibit high molybdenum concentrations. The highest chloride concentrations consistently occur at wells away from the Landfill CCR Unit where molybdenum has not been indicated at SSLs above the GWPSs.

At MW-14A, CM-1A, CM-2, CM-3A, CM-4A, and CM-5A the mean chloride concentration over the past four sampling events is more than 10% lower than the mean chloride concentration from prior sampling (indicating a general overall decrease in chloride concentration at these wells). An overall decrease in molybdenum concentration is also indicated at these wells. At MW-16 and CM-3B the mean chloride concentration over the past four sampling events is more than 10% greater than the mean chloride concentration from prior sampling (indicating an overall general increase in chloride concentration at these wells), even though an overall decrease in molybdenum concentration is indicated at these wells. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in chloride concentration.

From **Attachment F-2**, possible correlations between fluctuation in molybdenum and chloride concentrations may exist at some of the wells (particularly at MW-5S, MW-15A, MW-15B, MW-18, MW-19S, MW-22A, CM-1A, CM-2, CM-3A, CM-3B, CM-4A, CM-5A, and CM-5B).

pH: pH does correlate to higher or lower molybdenum concentration. Monitoring wells MW-18 and MW-19S consistently register pH around 10 Standard Units (both as measured in the field and reported by the laboratory). These monitoring wells also exhibit the highest concentrations for molybdenum. Monitoring wells MW-17, MW-22A, CM-1A, and CM-2 consistently register pH less than 7 Standard Units (as measured in the field). These wells typically contain among the lowest reported concentrations for molybdenum.

From **Attachment F-3A and Attachment F-3B**, possible correlations between fluctuations in molybdenum concentration and pH may exist at some of the wells (particularly at MW-5S, MW-15A, MW-15B, MW-16, MW-17, MW-18, MW-22A, MW-22B, CM-1B, CM-2, CM-3A, CM-4B, and CM-5B for field measured pH (**Attachment F-3A**) and at MW-5S, MW-15A, CM-3A, CM-4A, CM-4B, and CM-5B for lab measured pH (**Attachment F-3B**)). A decrease in pH generally appears to correlate with a decrease in molybdenum concentration. However, molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in pH.

TDS: High TDS concentration does not necessarily appear to correlate to high molybdenum concentration. Over the sampling period, the five highest average TDS concentrations (in order) occur at wells CM-1B, MW-22B, CM-4B, CM-5B, and CM-1A. None of these wells typically exhibit high molybdenum concentrations. The five highest average molybdenum concentrations (in order) appear at wells MW-19S, MW-18, MW-15A, MW-16, and CM-5B. The lowest average TDS concentrations occur at MW-5S, MW-18, MW-7S, and MW-16. Of these, molybdenum concentrations are typically high and indicated at SSLs above the GWPSs at MW-18 and MW-16. Conversely, MW-5S and MW-7S typically do not exhibit high molybdenum concentrations. The highest TDS concentrations consistently occur at wells away from the Landfill CCR Unit where molybdenum has not been indicated at SSLs above the GWPSs.

At MW-18, CM-2, and CM-4A the mean TDS concentration over the past four sampling events is more than 10% lower than the mean TDS concentration from prior sampling (indicating a general overall decrease in TDS concentration at these wells). An overall decrease in molybdenum concentration is also indicated at these wells. At MW-15B, MW-22B, CM-3B, CM-4B, and CM-5B the mean TDS concentration over the past four sampling events is more than 10% greater than the mean TDS concentration from prior sampling (indicating an overall general increase in TDS concentration at these wells), even though an overall decrease in molybdenum concentration is indicated at these wells. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in TDS concentration.

From **Attachment F-4**, possible correlations between changes in molybdenum and TDS concentrations may exist at some of the wells (particularly at MW-15A, MW-18, CM-2, and CM-3B). Possible inverse correlations may exist at other wells (particularly at MW-15B, CM-1B, CM-4B, and CM-5B).

Calcium: In general, site monitoring wells with the highest concentrations for molybdenum appear to exhibit lower concentrations of calcium than those at other wells. Similarly, site monitoring wells with the lowest concentrations for molybdenum appear to exhibit higher concentrations of calcium than those at other wells. The five highest average molybdenum concentrations (in order) appear at wells MW-19S, MW-18, MW-15A, MW-16, and CM-5B. Of these, MW18 and MW-19S are among the wells typically exhibiting the lowest calcium concentrations. The five highest average calcium concentrations (in order) occur at wells MW-22A, MW-17, CM-1A, CM-2, and MW-14A. These are among the wells typically exhibiting the lowest molybdenum concentrations.

At MW-14A, MW-16, MW-18, CM-1B, and CM-3A the mean calcium concentration over the past four sampling events is more than 10% lower than the mean calcium concentration from prior sampling (indicating a general overall decrease in calcium concentration at these wells). An overall decrease in molybdenum concentration is indicated at these wells. At MW-7S, MW-15B, MW-22B, CM-4A, CM-4B, CM-5A, and CM-5B the mean calcium concentration over the past four sampling events is more than 10% greater than the mean calcium concentration from prior sampling (indicating an overall general increase in calcium concentration at these wells). An overall decrease in molybdenum concentration is also indicated at these wells. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in calcium concentration.

From **Attachment F-5**, possible correlations between changes in molybdenum and calcium concentrations may exist at some of the wells (particularly at MW-15A, MW-16, MW-18, MW-19S, and CM-2). Conversely, a possible inverse correlation is suggested at some of the wells (particularly at MW-15B, MW-22B, CM-1B, CM-4B, and CM-5B).

Fluoride: In general, site monitoring wells with the highest concentrations for molybdenum also appear to exhibit higher concentrations of fluoride than those at other wells. Similarly, site monitoring wells with the lowest concentrations for molybdenum appear to exhibit lower concentrations of fluoride than those at other wells. Over the sampling period, the five highest average fluoride concentrations (in order) occur at wells MW-18, CM-3B, MW-19S, MW-5S, and MW-15A. Of these, MW-18, MW-19S, and MW-15A are among the wells exhibiting the highest average molybdenum concentrations.

The lowest fluoride concentrations typically occur at MW-14A, MW-17, CM-1A, MW-22A, and CM-2. These are among the wells typically exhibiting the lowest molybdenum concentrations.

At MW-22A and at CM-4B the mean fluoride concentration over the past four sampling events is more than 10% lower than the mean fluoride concentration from prior sampling (indicating a general overall decrease in fluoride concentration at these wells). An overall decrease in molybdenum concentration is indicated at these wells. At MW-14A, MW-16, MW-18, MW-19S, CM-1B, CM-3A, and CM-5B the mean fluoride concentration over the past four sampling events is more than 10% greater than the mean fluoride concentration from prior sampling (indicating an overall general increase in fluoride concentration at these wells). With the exception of MW-19S, an overall decrease in molybdenum concentration is indicated at these wells. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in fluoride concentration.

From **Attachment F-6**, possible correlations between changes in molybdenum and fluoride concentrations may exist at some of the wells (particularly at MW-5S, MW-15B, MW-17, MW-22B, and CM-2). Conversely, a possible inverse correlation is suggested at some of the wells (particularly at MW-16 and CM-1B).

Sulfate: Sulfate concentration does not necessarily appear to correlate to higher or lower molybdenum concentration. Over the sampling period, the five highest average sulfate concentrations (in order) occur at wells CM-1B, MW-22B, MW-22A, CM-1A, and MW-14A. None of these wells on average exhibit high molybdenum concentrations, and MW-22A and CM-1A on average exhibit lower molybdenum concentrations than most other site monitoring wells.

The lowest average sulfate concentrations occur at wells MW-5S, CM-3A, MW-7S, MW-18, AND CM-4A. Of these, MW-18 on average exhibits higher molybdenum concentrations than most other site monitoring wells and MW-7S on average exhibits lower molybdenum concentrations than most other site monitoring wells.

At CM-2, CM-3A, and CM-4A the mean sulfate concentration over the past four sampling events is more than 10% lower than the mean sulfate concentration from prior sampling (indicating a general overall decrease in sulfate concentration at these wells). An overall decrease in molybdenum concentration is indicated at these wells. At MW-5S, MW-7S, MW-15B, MW-17, and CM-3B the mean sulfate concentration over the past four sampling events is more than 10% greater than the mean sulfate concentration from prior sampling (indicating an overall general increase in sulfate concentration at these wells). An overall decrease in molybdenum concentration is indicated at these wells. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in sulfate concentration.

From **Attachment F-7**, possible correlations between changes in molybdenum and sulfate concentrations may exist at some of the wells (particularly at MW-16, MW-18, MW-22B, CM-2, CM-3A, CM-3B, CM-4A, and CM-5A). A possible inverse correlation is suggested at MW-15B.

- 5) The monitoring wells were sampled for indicator parameters for MNA including ORP (field measured), DO (field measured), specific conductance (field measured and laboratory reported), nitrate, sulfide, and alkalinity. For ORP, DO, and specific conductance at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, MW-19S, and MW-22A the September 2023 sampling was the fifteenth sampling event concurrent with sampling for molybdenum (dating to August 2017). For nitrate at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, MW-19S, and MW-22A the September 2023 sampling was the twelfth sampling event concurrent with sampling for molybdenum (dating to October 2018). For alkalinity at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, MW-19S, and MW-22A the September 2023 sampling was either the ninth or tenth sampling event concurrent with sampling for molybdenum (dating to August 2017). For the other parameters at MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B, the September 2023 sampling event was the eighth sampling concurrent with sampling for molybdenum (dating to July 2020).

Because of limited water availability samples for ORP, DO, specific conductance, nitrate, sulfide, and/or alkalinity could not be obtained during all sampling events at some of the wells (MW-15B, CM-1B, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B). Charts comparing changes in concentration over time for these parameters to changes in molybdenum concentration for each of the monitoring wells evaluated are included in **Attachment G**.

- Charts comparing changes in field measured ORP to changes in molybdenum concentration are included in **Attachment G-1**. Data to date does not appear to suggest an overall correlation between fluctuations in ORP and fluctuation in molybdenum concentrations, but possible correlations may exist at some of the monitoring wells. The monitoring wells exhibiting the highest concentrations for molybdenum (MW-18 and MW-19S) appear to be more often associated with negative ORP (under reducing conditions) and wells away from the Landfill CCR Unit to the east appear to be more often associated with positive ORP.

- Charts comparing changes in field measured DO to changes in molybdenum concentration are included in **Attachment G-2**. Data to date does not appear to suggest an overall correlation between changes in DO and changes in molybdenum concentration, but possible correlations may exist at some of the monitoring wells. The higher DO concentrations at some wells (MW-15B, CM-3A, CM-4A, CM-4B, and CM-5A) may be associated with the use of bailers for purging/sample collection.
- Charts comparing changes in field measured specific conductance to changes in molybdenum concentration are included in **Attachment G-3A**. Charts comparing changes in lab measured specific conductance to changes in molybdenum concentration are included in **Attachment G-3B**. Data to date appears to suggest possible correlations at some wells between fluctuations in specific conductance and fluctuation in molybdenum concentration (particularly at MW-5S, MW-17, MW-19S, MW-22B, and CM-4B for field measured conductance and at MW-5S, MW-15A, MW-19S, MW-22A, and CM-3A for laboratory measured conductance).
- Charts comparing changes in nitrate concentration to changes in molybdenum concentration are included in **Attachment G-4**. Data to date does not appear to suggest an overall correlation between fluctuations in nitrate and fluctuation in molybdenum concentrations, but possible correlations may exist at some of the monitoring wells (particularly at MW-15B, CM-2, and CM-3B). Possible inverse correlations may exist at other wells (particularly at MW-22B). In many of the wells the nitrate is often not identified above the laboratory reporting levels. In general, higher nitrate concentrations are reported in the monitoring wells MW-15B (north of the Landfill CCR Unit) and at wells away from the Landfill CCR Unit to the east (CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B).
- Charts comparing changes in sulfide concentration to changes in molybdenum concentration are included in **Attachment G-5**. Data to date does not appear to suggest an overall correlation between fluctuations in sulfide and fluctuation in molybdenum concentrations. Sulfide has been detected periodically in several of the monitoring wells, but is generally below laboratory reporting levels (1 mg/L). Sulfide is most frequently observed at MW-15B (north of the Landfill CCR Unit) and in wells CM-5A and CM-5B (southeast of the Landfill CCR Unit). Sulfide can be indicative of reducing conditions.
- Charts comparing changes in total alkalinity concentration to changes in molybdenum concentration are included in **Attachment G-6**. Data to date does not appear to suggest an overall correlation between fluctuations in alkalinity and fluctuation in molybdenum concentrations, but possible correlations may exist at some of the monitoring wells (particularly at MW-18 and CM-3A). Monitoring wells exhibiting on average the highest molybdenum concentrations (MW-18, MW-19S, and MW-15A)

on average exhibit the lowest total alkalinity concentrations. However, wells exhibiting on average the lowest molybdenum concentrations do not correlate to wells exhibiting highest total alkalinity concentrations. Most of the monitoring wells contain alkalinity only in the bicarbonate form. However, the monitoring wells exhibiting the highest concentrations for molybdenum (MW-18 and MW-19S) typically exhibit elevated pH and as such contain carbonate and/or hydroxide alkalinity and generally do not contain alkalinity in the bicarbonate form. A mix of bicarbonate and carbonate alkalinity have been identified at least once at monitoring wells MW-5S, MW-15B, MW-16, CM-1B, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B.

6) The wells were sampled for total and dissolved iron, total and dissolved ferrous iron (Fe(II)), and total and dissolved ferric iron (Fe(III)). The September 2023 sampling was the eighth sampling event for total iron, dissolved iron, and total ferrous iron (dating to July 2020). The September 2023 sampling was the sixth sampling event for dissolved ferrous iron and total and dissolved ferric iron. Because of limited water availability, samples for ferrous and or ferric iron could not be obtained during all sampling events at some of the wells. Observations from September 2023 sampling of iron are as follows:

- Total iron was reported at concentrations significantly above laboratory reporting limits at MW-7S, MW-14A, MW-15A, MW-15B, MW-22A, MW-22B, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B. Of these, molybdenum concentrations are typically high and at SSLs above the GWPSs at MW-15A. Total iron concentrations were below or only slightly above laboratory reporting levels in samples collected from MW-5S, MW-16, MW-17, MW-18, MW-19S, and CM-1A. Of these, molybdenum concentrations are typically high and at SSLs above the GWPSs at MW-16, MW-18, and MW-19S.
- Of the wells containing total iron at concentrations significantly above laboratory reporting limits, less than 10% of the total iron observed were in dissolved form at MW-15B, MW-22A, MW-22B, CM-3A, CM-3B, CM-4A, CM -4B, CM-5A, and CM-5B. This indicates that the iron may be predominantly insoluble at these locations and that the total iron observed is associated with sediment entrained in the samples.
- Of the wells containing total iron at concentrations significantly above laboratory reporting limits, more than 10% of the total iron observed were in dissolved form at MW-7S, MW-14A, MW-15A, CM-1B, and CM-2. This indicates that iron is partly soluble at these locations.
- At MW-16 the reported total iron concentration was significantly below that reported for dissolved iron, indicating a potential issue with sampling and/or analysis for that sample. Therefore, further evaluation was not conducted for iron at MW-16 from September 2023 sampling.

- At MW-7S, MW-15A, and CM-1B the observed iron in dissolved form was all ferrous iron, which is indicative of iron reducing conditions and is typically soluble under the pH range of 5 to 8 standard units. Dissolved iron in both ferrous and ferric forms was observed at MW-14A (97% ferrous and 3% ferric) and at CM-2 (34% ferrous and 66% ferric). Ferric iron, the oxidized form, is not soluble under natural pH conditions unless exposed to oxygen or another oxidizing agent.
- Charts comparing changes in dissolved iron concentration to changes in molybdenum concentration are included in **Attachment H-1**. Charts comparing changes in dissolved ferrous iron concentration to changes in molybdenum concentration are included in **Attachment H-2**. Charts comparing changes in dissolved ferric iron concentration to changes in molybdenum concentration are included in **Attachment H-3**. Correlations between fluctuations in molybdenum and dissolved iron concentrations and correlations between fluctuations in molybdenum and dissolved ferric and/or ferrous iron concentrations are not apparent at most wells.

COMPARISON TO DRINKING WATER STANDARDS AND GROUNDWATER QUALITY

Of the constituents discussed herein, only fluoride has a published Federal Drinking Water Standard / Maximum Contaminant Level (MCL). The MCL for fluoride is 4 mg/L. Secondary MCLs have been published for chloride (250 mg/L), fluoride (2 mg/L), iron (0.3 mg/L), pH (6.5-8.5 Standard Units), sulfate (250 mg/L), and TDS (500 mg/L). The EPA has developed a health-based groundwater protection standard for molybdenum (0.1 mg/L).

In none of the wells discussed herein did the reported fluoride concentration exceed the MCL or the Secondary MCL. Also, chloride was not identified in any of the monitoring wells at concentrations exceeding the Secondary MCL. Sulfate and TDS were above the Secondary MCLs in each of the HPS monitoring wells, including up-gradient background monitoring wells. Measured pH was above the range of the Secondary MCLs at MW-18 and MW-19S (both lab reported and field measured). Reported dissolved iron was at concentrations above the Secondary MCL at MW-14A, MW-15A, and CM-1B. Reported molybdenum was above the health-risk GWPS as established by EPA at MW-15A, MW-16, MW-18, and MW-19S.

Natural groundwater in the region of the HPS is of poor quality. From Hydrologic Atlas Number 9, Reconnaissance of the Water Resources of the McAlester and Texarkana Quadrangles, Southeastern Oklahoma (Marcher, V. Melvin Bergman, L. DeRoy, U.S. Geological Survey, 1983), results from chemical analysis of water from undifferentiated rocks of Cretaceous age in southeastern Oklahoma indicate that sulfate occurs naturally up to concentrations as high as 845 mg/L and that total dissolved solids (TDS) occur naturally up to concentrations of 1,900 mg/L. These naturally occurring levels for both sulfate and TDS exceed the Secondary Standards for these compounds as established by EPA (250 mg/L for sulfate and 500 mg/L for TDS). WFEC has been monitoring several wells for groundwater quality at its HPS facility as part of its CCR

Program. This monitoring consistently yields sulfate at concentrations between 1,300 mg/L and 2,000 mg/L and TDS at concentrations between 2,100 mg/L and 2,700 mg/L in upgradient wells at the HPS. These sulfate and TDS levels are naturally occurring.

GROUNDWATER FLOW AND RISK EVALUATION

As presented in the Assessment of Corrective Measures Report, soils/rock that underlie the HPS are predominantly tight clays and hard shale exhibiting very low horizontal hydraulic conductivities (geometric mean of 3.43×10^{-6} cm/second) and well yields of less than 0.01 gallons per minute. Based on the estimated well yields and hydraulic conductivities it appears that near-surface groundwater at the HPS are perched non-contiguous groundwater zones and well yields are such that formations containing shallow perched groundwater would not generally be considered a usable water bearing unit and not considered a major groundwater aquifer under Oklahoma Standards.

To the southeast, the nearest property boundary is more than 1,000 feet from identified molybdenum in groundwater over the GWPS. To the east and northeast, the nearest property boundaries are at least 7,500 feet from identified molybdenum in groundwater over the GWPS. From the Assessment of Corrective Measures Report, it would take approximately 498 years to reach the nearest property boundary to the southeast and it would take approximately 3,730 years to reach the property boundaries to the northeast and east.

A risk evaluation was previously submitted to the ODEQ (Risk Evaluation for Shallow Perched Groundwater; Planned Impoundment FO-08, Nancy Coleman, March 19, 2020). It concluded that the constituents present in shallow perched groundwater at designated wells downgradient of the Landfill CCR Unit do not pose a hazard to potential on-site or off-site human or ecological receptors.

CONCLUSIONS/RECOMMENDATIONS

Based on evaluations included in the ODEQ approved Assessment of Corrective Measures Report, source control via enhanced dewatering combined with monitored natural attenuation was proposed as a corrective measure alternative for the molybdenum. Dewatering of the Landfill CCR Unit was initiated in March 2020 and continues as water accumulates in the landfill following rainfall events. From the start of dewatering through January 24, 2024, a total of 3,897.9 hours of pumping have been conducted from the north cell and 1,507.4 hours of pumping have been conducted from the south cell of the Landfill CCR Unit to prevent standing water from accumulating in the Landfill CCR Unit.

A minimum of two years of semi-annual sampling of monitoring wells downgradient of the Landfill CCR Unit was initially proposed to establish the effectiveness of this alternative prior to selection of a final remedy. The two-year sampling period was completed in October 2022. Data obtained during the two-year semi-annual groundwater sampling is encouraging in that

molybdenum concentrations have gone down for most of the wells sampled, molybdenum concentrations at SSLs above the GWPSs continue to be identified at only four wells proximate to the Landfill CCR Unit, and the plume has not expanded beyond the groundwater monitoring system for the Landfill CCR Unit.

An additional two years of semi-annual monitoring and reporting was approved by ODEQ to fully evaluate the proposed remedy and to meet the standards listed in OAC 252:517-9(b) and (c). The sixth semi-annual sampling (second semi-annual for the third year of monitoring (2023)) was conducted in September 2023. Wells sampled included MW-5S, MW-7S, MW-14A, MW-15A, MW-15B, MW-16, MW-17, MW-18, MW-19S, MW-22A, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5. Samples were collected from each of these wells for analysis of molybdenum. These wells were also sampled for (and/or measured in the field) parameters to facilitate evaluation of MNA. Conclusions from the September 2023 sampling are summarized below:

- 1) Molybdenum was identified at SSLs above GWPSs at four wells proximal to the Landfill CCR Unit (MW-15A, MW-16, MW-18, and MW-19S). This is consistent with previous sampling.
- 2) A comparison of September 2023 data to historic data suggests that molybdenum concentrations have gone down over the sampling history for most of the wells sampled (including MW-15A, MW-16, MW-18, and MW-19S).
- 3) It remains evident that molybdenum concentrations attenuate significantly with increased distance from the CCR Landfill.
- 4) The monitoring wells exhibiting the highest concentrations for molybdenum concentrations (MW-18 and MW-19S) also exhibit the highest pH (consistently above 10 Standard Units) and often exhibit negative ORP.
- 5) Higher concentrations for boron, chloride, TDS, calcium, fluoride, sulfate, and conductivity generally do not appear to correlate to higher or lower molybdenum concentration. However, comparison of September 2023 data to historic data does suggest possible correlations in some wells between changes in molybdenum concentration and changes in concentrations for these compounds. Molybdenum concentrations appear to be stable or decreasing in nearly all wells regardless of changes in concentration for these compounds.
- 6) No new exceedances of the GWPSs were identified in any of the other wells during this latest sampling event.

- 7) Natural groundwater in the region is of poor quality, with sulfate at concentrations between 1,300 mg/L and 2,000 mg/L and TDS at concentrations between 2,100 mg/L and 2,700 mg/L in upgradient wells at the HPS. These sulfate and TDS levels are naturally occurring.

- 8) It appears that near-surface groundwater at the HPS is perched non-contiguous groundwater zones, that it would take molybdenum in groundwater approximately 498 years to reach the nearest property boundary to the southeast and it would take approximately 3,730 years to reach the property boundaries to the northeast and east. and that constituents present in shallow perched groundwater downgradient of the Landfill CCR Unit do not pose a hazard to potential on-site or off-site human or ecological receptors.

It is recommended that WFEC continue with semi-annual sampling as per the approved Fourth Report to Monitor Progress of Semi-Annual Corrective Measures Assessment (CMA) Sampling at Landfill CCR Unit. The seventh semi-annual sampling (first semi-annual for the fourth year of monitoring (2024)) is scheduled to occur in April 2024.

It is recommended that the data from semi-annual sampling continue to be reviewed and evaluated to identify potential trends, correlations, and/or other information that could aid in determining the fate of molybdenum in the subsurface environment and that a summary report be submitted to ODEQ following evaluation of the data.

It is recommended that WFEC continue with its dewatering of the Landfill CCR Unit as per the approved Assessment of Corrective Measures Report.

At least 30-days prior to selecting a remedy, WFEC will conduct a public meeting to discuss the results of the corrective measures assessment (as required by OAC 252:517-9-7(e)). The Corrective Measures Assessment, supplemental data obtained, and the input received during the public comment period will be used to identify a corrective measure for implementation at the HPS.

Upon selection of a remedy, WFEC will prepare and submit to ODEQ for approval a final report as per OAC 252:517-9-8(a) describing the selected remedy and how it meets the standards specified in OAC 252:517-9-8 (b) and (c). The final report will include a certification from a qualified professional engineer that the remedy selected meets the requirements of the selection criteria and the final report will be placed in the operating record.

As required by OAC 252:517-9-87(d), WFEC will specify as part of the selected remedy a schedule for implementing and completing remedial activities. The schedule will require the completion of remedial activities within a reasonable period of time taking into consideration 1) the extent and nature of molybdenum, 2) reasonable probabilities of remedial technologies in achieving compliance with the GWPS, 3) availability of treatment or disposal capacity for CCR managed during implantation of the remedy, 4) potential risks to human health and the environment from exposure of constituents prior to remedy completion, and 5) resource value of the aquifer. Recordkeeping, notification, and internet requirements as per OAC 252:517 will be complied with during all aspects of this process.

If you have any questions, please feel free to contact me at (405) 842-1066 or at chris.schaefer@altamira-us.com

Sincerely,
Altamira-US, LLC.



Christopher S. Schaefer, P.E.
Project Engineer

cc: Kent Fletcher and John McCreight / Western Farmers Electric Cooperative
Chris Schaefer and Bert Smith / Altamira-US, LLC

ATTACHMENT A

MONITORING WELL LOCATION MAP

ATTACHMENT B

ANALYTICAL REPORTS (OCTOBER 2023 SAMPLING)

- Included is a report from ALS for monitoring wells MW-3, MW-5S, MW-7S, MW-13, MW-14A, MW-15A, MW-16, MW-17, MW-18, MW-19S, MW-20, and MW-21. This report includes assessment monitoring parameters as analyzed by ALS for each of these wells. It also includes parameters as analyzed by ALS to evaluate monitored natural attenuation for the pertinent wells which are sampled both to evaluate monitored natural attenuation and which are included in the assessment monitoring program.
- Included is the laboratory provided analytical report for monitoring wells sampled to evaluate monitored natural attenuation outside of the assessment monitoring program (CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, CM-5B, MW-15B, MW-22B).



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October 12, 2023

Chris Schaefer
Altamira
525 central park Dr
Suite 500
Oklahoma City, OK 73013

Work Order: **HS23091613**

Laboratory Results for: **WFEC / CCR Landfill**

Dear Chris Schaefer,

ALS Environmental received 14 sample(s) on Sep 27, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Anna Kinchen
Project Manager

Client: Altamira
Project: WFEC / CCR Landfill
Work Order: HS23091613

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23091613-01	MW-15A	Water		25-Sep-2023 17:03	27-Sep-2023 09:10	<input type="checkbox"/>
HS23091613-02	MW-5S	Water		26-Sep-2023 12:00	27-Sep-2023 09:10	<input type="checkbox"/>
HS23091613-03	MW-14A	Water		26-Sep-2023 15:40	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091613-04	MW-16	Water		27-Sep-2023 12:05	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091613-05	MW-18	Water		27-Sep-2023 15:37	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-06	MW-7S	Water		27-Sep-2023 18:03	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-07	MW-17	Water		27-Sep-2023 17:00	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-08	MW-19S	Water		27-Sep-2023 17:29	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-09	Dup 1	Water		27-Sep-2023 00:00	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-10	MW-20	Water		28-Sep-2023 10:18	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-11	MW-3	Water		28-Sep-2023 10:11	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-12	DUP 2	Water		28-Sep-2023 10:18	29-Sep-2023 09:20	<input type="checkbox"/>
HS23091613-13	MW-21	Water		28-Sep-2023 15:15	30-Sep-2023 08:45	<input type="checkbox"/>
HS23091613-14	MW-13	Water		28-Sep-2023 15:33	30-Sep-2023 08:45	<input type="checkbox"/>

Client: Altamira
Project: WFEC / CCR Landfill
Work Order: HS23091613

CASE NARRATIVE

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

- Login Notes:
MW-13 Collection time discrepancy: COC=15:13 Labels=1533
- Per client email dated 10-05-23 - the correct sampling time for MW-13 is 1533. The label is correct.

Metals by Method SW7470A**Batch ID: 201642,201644**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A**Batch ID: 201500**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: 201563**Sample ID: MW-19S (HS23091613-08MS)**

- Thallium failed for MS/MSD but passed for PDS.
- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Boron,Calcium,Potassium,Sodium)

Sample ID: MW-19S (HS23091613-08SD)

- The percent difference between the results of the sample and the serial dilution were greater than 10%. (Calcium,Molybdenum)

Batch ID: 201615**Sample ID: MW-19S (HS23091613-08MS)**

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. Molybdenum

Wet Chemistry by Method M2540C**Batch ID: R447845**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R448230

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R448231

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Altamira
Project: WFEC / CCR Landfill
Work Order: HS23091613

CASE NARRATIVE

Wet Chemistry by Method E300

Batch ID: R447536

Sample ID: MW-5S (HS23091613-02MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. Sulfate

Batch ID: R447646

Sample ID: HS23091740-01MS

- MS and MSD are for an unrelated sample

Sample ID: HS23091616-07MS

- MS and MSD are for an unrelated sample

Batch ID: R447844

Sample ID: HS23091835-21MS

- MS and MSD are for an unrelated sample

Sample ID: MW-13 (HS23091613-14MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. Sulfate

MS and MSD failed QC limit for Nitrogen, Nitrite (AS N)

Wet Chemistry by Method SM2320B

Batch ID: R448460

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Wet Chemistry by Method SM3500FED

Batch ID: R447503

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R447660

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R447658

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R447888

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R447889

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Altamira
Project: WFEC / CCR Landfill
Work Order: HS23091613

CASE NARRATIVE

WetChemistry by Method SM4500H+ B

Batch ID: R447857,R447858,R448461,R448464,R448796

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E410.4

Batch ID: R448773

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R447901,R447946,R447979

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R447856,R448460

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R447738,R447845,R447962,R448230,R448231

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2510 B

Batch ID: R447705,R448504

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R447844

Sample ID: MW-21 (HS23091613-13)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Fluoride,Nitrogen, Nitrate (As N))

Batch ID: R447536

Sample ID: HS23090943-04MS

- MS and MSD are for an unrelated sample

Batch ID: R447795

Sample ID: MW-19S(HS23091318-08MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. Sulfate

MS and MSD failed QC limit for Nitrogen, Nitrite (AS N)

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-15A
 Collection Date: 25-Sep-2023 17:03

ANALYTICAL REPORT

WorkOrder:HS23091613
 Lab ID:HS23091613-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.173		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 19:05
Arsenic	0.00126	J	0.000400	0.00200	mg/L	1	09-Oct-2023 19:05
Barium	0.0218		0.00190	0.00400	mg/L	1	09-Oct-2023 19:05
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 19:05
Boron	3.27		1.10	2.00	mg/L	100	10-Oct-2023 13:08
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 19:05
Calcium	148		0.0340	0.500	mg/L	1	09-Oct-2023 19:05
Chromium	0.000804	J	0.000400	0.00400	mg/L	1	09-Oct-2023 19:05
Cobalt	0.000304	J	0.000200	0.00500	mg/L	1	09-Oct-2023 19:05
Iron	0.756		0.0120	0.200	mg/L	1	09-Oct-2023 19:05
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 19:05
Lithium	0.0550		0.00100	0.00500	mg/L	1	09-Oct-2023 19:05
Magnesium	11.6		0.0100	0.200	mg/L	1	09-Oct-2023 19:05
Molybdenum	0.158		0.000600	0.00500	mg/L	1	09-Oct-2023 19:05
Potassium	5.46		0.0180	0.200	mg/L	1	09-Oct-2023 19:05
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 19:05
Sodium	608		1.40	20.0	mg/L	100	10-Oct-2023 13:08
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 19:05
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 05-Oct-2023		Analyst: JC	
Iron	0.635		0.0120	0.200	mg/L	1	06-Oct-2023 17:32
Molybdenum	0.165		0.000600	0.00500	mg/L	1	06-Oct-2023 17:32
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:12
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	26.2		0.200	0.500	mg/L	1	27-Sep-2023 14:51
Fluoride	0.986		0.0500	0.100	mg/L	1	27-Sep-2023 14:51
Nitrogen, Nitrate (As N)	0.134		0.0300	0.100	mg/L	1	27-Sep-2023 14:51
Sulfate	1,660		4.00	10.0	mg/L	20	27-Sep-2023 14:57
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	16.0		5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	3,380		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-15A
 Collection Date: 25-Sep-2023 17:03

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	2,570		5.00	10.0	mg/L	1	28-Sep-2023 14:48
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	186		3.50	5.00	mg/L	1	29-Sep-2023 21:06
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:06
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:06
Alkalinity, Total (As CaCO3)	186		3.50	5.00	mg/L	1	29-Sep-2023 21:06
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AB
Ferrous Iron	0.583		0.0200	0.0500	mg/L	1	27-Sep-2023 16:26
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AB
Ferrous Iron, Dissolved	0.738		0.0200	0.0500	mg/L	1	27-Sep-2023 16:30
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide	U		1.70	2.00	mg/L	1	02-Oct-2023 13:09
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	7.93	H	0.100	0.100	pH Units	1	29-Sep-2023 21:06
Temp Deg C @pH	20.8	H	0	0	°C	1	29-Sep-2023 21:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-5S
 Collection Date: 26-Sep-2023 12:00

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 19:07
Arsenic	U		0.000400	0.00200	mg/L	1	09-Oct-2023 19:07
Barium	0.0130		0.00190	0.00400	mg/L	1	09-Oct-2023 19:07
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 19:07
Boron	1.68		0.550	1.00	mg/L	50	10-Oct-2023 13:10
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 19:07
Calcium	57.3		0.0340	0.500	mg/L	1	09-Oct-2023 19:07
Chromium	0.000646	J	0.000400	0.00400	mg/L	1	09-Oct-2023 19:07
Cobalt	U		0.000200	0.00500	mg/L	1	09-Oct-2023 19:07
Iron	0.0172	J	0.0120	0.200	mg/L	1	09-Oct-2023 19:07
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 19:07
Lithium	0.0544		0.00100	0.00500	mg/L	1	09-Oct-2023 19:07
Magnesium	6.24		0.0100	0.200	mg/L	1	09-Oct-2023 19:07
Molybdenum	0.00307	J	0.000600	0.00500	mg/L	1	09-Oct-2023 19:07
Potassium	4.76		0.0180	0.200	mg/L	1	09-Oct-2023 19:07
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 19:07
Sodium	309		0.700	10.0	mg/L	50	10-Oct-2023 13:10
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 19:07
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 05-Oct-2023		Analyst: JC	
Iron	0.0165	J	0.0120	0.200	mg/L	1	06-Oct-2023 17:34
Molybdenum	0.00294	J	0.000600	0.00500	mg/L	1	06-Oct-2023 17:34
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:13
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	24.8		0.200	0.500	mg/L	1	27-Sep-2023 15:03
Fluoride	1.20		0.0500	0.100	mg/L	1	27-Sep-2023 15:03
Nitrogen, Nitrate (As N)	0.310		0.0300	0.100	mg/L	1	27-Sep-2023 15:03
Sulfate	518		4.00	10.0	mg/L	20	27-Sep-2023 15:20
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	10.0	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	1,820		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-5S
 Collection Date: 26-Sep-2023 12:00

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	956		5.00	10.0	mg/L	1	29-Sep-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	397		3.50	5.00	mg/L	1	29-Sep-2023 21:12
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:12
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:12
Alkalinity, Total (As CaCO3)	397		3.50	5.00	mg/L	1	29-Sep-2023 21:12
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AB			
Ferrous Iron	U		0.0200	0.0500	mg/L	1	27-Sep-2023 16:26
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AB			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	27-Sep-2023 16:30
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	02-Oct-2023 13:09
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: DW			
pH	8.09	H	0.100	0.100	pH Units	1	29-Sep-2023 21:12
Temp Deg C @pH	20.9	H	0	0	°C	1	29-Sep-2023 21:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-14A
 Collection Date: 26-Sep-2023 15:40

ANALYTICAL REPORT

WorkOrder:HS23091613
 Lab ID:HS23091613-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.0780		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved		U	0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony		U	0.000400	0.00200	mg/L	1	09-Oct-2023 19:09
Arsenic		U	0.000400	0.00200	mg/L	1	09-Oct-2023 19:09
Barium	0.0104		0.00190	0.00400	mg/L	1	09-Oct-2023 19:09
Beryllium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 19:09
Boron	0.820		0.0550	0.100	mg/L	5	10-Oct-2023 14:31
Cadmium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 19:09
Calcium	294		1.70	25.0	mg/L	50	10-Oct-2023 13:12
Chromium	0.00124	J	0.000400	0.00400	mg/L	1	09-Oct-2023 19:09
Cobalt		U	0.000200	0.00500	mg/L	1	09-Oct-2023 19:09
Iron	0.574		0.0120	0.200	mg/L	1	09-Oct-2023 19:09
Lead		U	0.000600	0.00200	mg/L	1	09-Oct-2023 19:09
Lithium	0.154		0.00100	0.00500	mg/L	1	09-Oct-2023 19:09
Magnesium	28.1		0.0100	0.200	mg/L	1	09-Oct-2023 19:09
Molybdenum		U	0.000600	0.00500	mg/L	1	09-Oct-2023 19:09
Potassium	8.74		0.0180	0.200	mg/L	1	09-Oct-2023 19:09
Selenium		U	0.00110	0.00200	mg/L	1	09-Oct-2023 19:09
Sodium	397		0.700	10.0	mg/L	50	10-Oct-2023 13:12
Thallium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 19:09
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 05-Oct-2023		Analyst: JC	
Iron	0.541		0.0120	0.200	mg/L	1	06-Oct-2023 17:36
Molybdenum		U	0.000600	0.00500	mg/L	1	06-Oct-2023 17:36
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury		U	0.0000300	0.000200	mg/L	1	09-Oct-2023 14:15
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	11.3		0.200	0.500	mg/L	1	28-Sep-2023 13:17
Fluoride	0.246		0.0500	0.100	mg/L	1	28-Sep-2023 13:17
Nitrogen, Nitrate (As N)	0.0458	J	0.0300	0.100	mg/L	1	28-Sep-2023 13:17
Sulfate	1,700		10.0	25.0	mg/L	50	28-Sep-2023 18:19
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	8.00	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	3,320		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-14A
 Collection Date: 26-Sep-2023 15:40

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	2,780		5.00	10.0	mg/L	1	29-Sep-2023 13:00
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	303		3.50	5.00	mg/L	1	29-Sep-2023 21:18
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:18
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:18
Alkalinity, Total (As CaCO3)	303		3.50	5.00	mg/L	1	29-Sep-2023 21:18
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	0.496		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	0.527		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 07:36
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	7.50	H	0.100	0.100	pH Units	1	29-Sep-2023 21:18
Temp Deg C @pH	21.0	H	0	0	°C	1	29-Sep-2023 21:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-16
 Collection Date: 27-Sep-2023 12:05

ANALYTICAL REPORT

WorkOrder:HS23091613
 Lab ID:HS23091613-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	0.121		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:27
Arsenic	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:27
Barium	0.0141		0.00190	0.00400	mg/L	1	09-Oct-2023 20:27
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:27
Boron	2.35		0.550	1.00	mg/L	50	10-Oct-2023 13:28
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:27
Calcium	128		0.0340	0.500	mg/L	1	09-Oct-2023 20:27
Chromium	0.000997	J	0.000400	0.00400	mg/L	1	09-Oct-2023 20:27
Cobalt	0.000228	J	0.000200	0.00500	mg/L	1	09-Oct-2023 20:27
Iron	0.0333	J	0.0120	0.200	mg/L	1	09-Oct-2023 20:27
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 20:27
Lithium	0.0509		0.00100	0.00500	mg/L	1	09-Oct-2023 20:27
Magnesium	7.51		0.0100	0.200	mg/L	1	09-Oct-2023 20:27
Molybdenum	0.103		0.000600	0.00500	mg/L	1	09-Oct-2023 20:27
Potassium	3.87		0.0180	0.200	mg/L	1	09-Oct-2023 20:27
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 20:27
Sodium	336		0.700	10.0	mg/L	50	10-Oct-2023 13:28
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:27
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 05-Oct-2023		Analyst: JC	
Iron	0.121	J	0.0120	0.200	mg/L	1	06-Oct-2023 17:38
Molybdenum	0.0644		0.000600	0.00500	mg/L	1	06-Oct-2023 17:38
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:42
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	43.4		0.200	0.500	mg/L	1	28-Sep-2023 13:46
Fluoride	1.43		0.0500	0.100	mg/L	1	28-Sep-2023 13:46
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	28-Sep-2023 13:46
Sulfate	1,100		10.0	25.0	mg/L	50	28-Sep-2023 18:48
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	7.00	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	2,980		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-16
 Collection Date: 27-Sep-2023 12:05

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	1,970		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	400		3.50	5.00	mg/L	1	06-Oct-2023 18:10
Alkalinity, Carbonate (As CaCO3)	7.80		3.50	5.00	mg/L	1	06-Oct-2023 18:10
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:10
Alkalinity, Total (As CaCO3)	408		3.50	5.00	mg/L	1	06-Oct-2023 18:10
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	0.0870		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	8.29	H	0.100	0.100	pH Units	1	29-Sep-2023 22:48
Temp Deg C @pH	21.3	H	0	0	°C	1	29-Sep-2023 22:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-18
 Collection Date: 27-Sep-2023 15:37

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:29
Arsenic	0.00343		0.000400	0.00200	mg/L	1	09-Oct-2023 20:29
Barium	0.00268	J	0.00190	0.00400	mg/L	1	09-Oct-2023 20:29
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:29
Boron	4.81		1.10	2.00	mg/L	100	10-Oct-2023 13:30
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:29
Calcium	18.4		0.0340	0.500	mg/L	1	09-Oct-2023 20:29
Chromium	U		0.000400	0.00400	mg/L	1	09-Oct-2023 20:29
Cobalt	U		0.000200	0.00500	mg/L	1	09-Oct-2023 20:29
Iron	0.0122	J	0.0120	0.200	mg/L	1	09-Oct-2023 20:29
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 20:29
Lithium	0.00294	J	0.00100	0.00500	mg/L	1	09-Oct-2023 20:29
Magnesium	0.211		0.0100	0.200	mg/L	1	09-Oct-2023 20:29
Molybdenum	0.197		0.000600	0.00500	mg/L	1	09-Oct-2023 20:29
Potassium	15.8		0.0180	0.200	mg/L	1	09-Oct-2023 20:29
Selenium	0.0221		0.00110	0.00200	mg/L	1	09-Oct-2023 20:29
Sodium	421		1.40	20.0	mg/L	100	10-Oct-2023 13:30
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:29
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:01
Molybdenum	0.200		0.000600	0.00500	mg/L	1	09-Oct-2023 22:01
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:44
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	5.10		0.200	0.500	mg/L	1	29-Sep-2023 12:26
Fluoride	1.57		0.0500	0.100	mg/L	1	29-Sep-2023 12:26
Nitrogen, Nitrate (As N)	0.0666	J	0.0300	0.100	mg/L	1	29-Sep-2023 12:26
Sulfate	997		4.00	10.0	mg/L	20	29-Sep-2023 13:58
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	22.0		5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: CD			
Specific Conductivity	2,000		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-18
 Collection Date: 27-Sep-2023 15:37

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	1,120		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:15
Alkalinity, Carbonate (As CaCO3)	40.2		3.50	5.00	mg/L	1	06-Oct-2023 18:15
Alkalinity, Hydroxide (As CaCO3)	18.6		3.50	5.00	mg/L	1	06-Oct-2023 18:15
Alkalinity, Total (As CaCO3)	58.8		3.50	5.00	mg/L	1	06-Oct-2023 18:15
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	U		0.0200	0.0500	mg/L	1	29-Sep-2023 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	0.0660		0.0200	0.0500	mg/L	1	29-Sep-2023 14:22
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: DW			
pH	10.0	H	0.100	0.100	pH Units	1	06-Oct-2023 18:15
Temp Deg C @pH	19.5	H	0	0	°C	1	06-Oct-2023 18:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-7S
 Collection Date: 27-Sep-2023 18:03

ANALYTICAL REPORT

WorkOrder:HS23091613
 Lab ID:HS23091613-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:31
Arsenic	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:31
Barium	0.0167		0.00190	0.00400	mg/L	1	09-Oct-2023 20:31
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:31
Boron	2.28		0.550	1.00	mg/L	50	10-Oct-2023 13:33
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:31
Calcium	119		0.0340	0.500	mg/L	1	09-Oct-2023 20:31
Chromium	U		0.000400	0.00400	mg/L	1	09-Oct-2023 20:31
Cobalt	0.000203	J	0.000200	0.00500	mg/L	1	09-Oct-2023 20:31
Iron	0.199	J	0.0120	0.200	mg/L	1	09-Oct-2023 20:31
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 20:31
Lithium	0.0719		0.00100	0.00500	mg/L	1	09-Oct-2023 20:31
Magnesium	14.3		0.0100	0.200	mg/L	1	09-Oct-2023 20:31
Molybdenum	0.00135	J	0.000600	0.00500	mg/L	1	09-Oct-2023 20:31
Potassium	6.10		0.0180	0.200	mg/L	1	09-Oct-2023 20:31
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 20:31
Sodium	290		0.700	10.0	mg/L	50	10-Oct-2023 13:33
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:31
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	0.125	J	0.0120	0.200	mg/L	1	09-Oct-2023 22:04
Molybdenum	0.00114	J	0.000600	0.00500	mg/L	1	09-Oct-2023 22:04
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:45
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	17.0		0.200	0.500	mg/L	1	29-Sep-2023 12:32
Fluoride	0.628		0.0500	0.100	mg/L	1	29-Sep-2023 12:32
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	29-Sep-2023 12:32
Sulfate	778		4.00	10.0	mg/L	20	29-Sep-2023 14:04
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	13.0	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: CD			
Specific Conductivity	1,970		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-7S
 Collection Date: 27-Sep-2023 18:03

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	1,150		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	288		3.50	5.00	mg/L	1	06-Oct-2023 18:20
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:20
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:20
Alkalinity, Total (As CaCO3)	288		3.50	5.00	mg/L	1	06-Oct-2023 18:20
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	0.206		0.0200	0.0500	mg/L	1	29-Sep-2023 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	0.222		0.0200	0.0500	mg/L	1	29-Sep-2023 14:22
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	8.10	H	0.100	0.100	pH Units	1	06-Oct-2023 18:20
Temp Deg C @pH	19.2	H	0	0	°C	1	06-Oct-2023 18:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-17
 Collection Date: 27-Sep-2023 17:00

ANALYTICAL REPORT

WorkOrder:HS23091613
 Lab ID:HS23091613-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:33
Arsenic	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:33
Barium	U		0.00190	0.00400	mg/L	1	09-Oct-2023 20:33
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:33
Boron	0.650		0.220	0.400	mg/L	20	10-Oct-2023 13:35
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:33
Calcium	561		0.680	10.0	mg/L	20	10-Oct-2023 13:35
Chromium	0.000569	J	0.000400	0.00400	mg/L	1	09-Oct-2023 20:33
Cobalt	0.000294	J	0.000200	0.00500	mg/L	1	09-Oct-2023 20:33
Iron	0.0122	J	0.0120	0.200	mg/L	1	09-Oct-2023 20:33
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 20:33
Lithium	0.143		0.00100	0.00500	mg/L	1	09-Oct-2023 20:33
Magnesium	36.4		0.0100	0.200	mg/L	1	09-Oct-2023 20:33
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 20:33
Potassium	5.43		0.0180	0.200	mg/L	1	09-Oct-2023 20:33
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 20:33
Sodium	35.1		0.280	4.00	mg/L	20	10-Oct-2023 13:35
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:33
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:06
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 22:06
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:47
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	4.00		0.200	0.500	mg/L	1	29-Sep-2023 13:12
Fluoride	0.311		0.0500	0.100	mg/L	1	29-Sep-2023 13:12
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	29-Sep-2023 13:12
Sulfate	1,470		4.00	10.0	mg/L	20	29-Sep-2023 14:56
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	9.00	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: CD			
Specific Conductivity	2,480		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-17
 Collection Date: 27-Sep-2023 17:00

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	2,270		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	257		3.50	5.00	mg/L	1	06-Oct-2023 18:26
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:26
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:26
Alkalinity, Total (As CaCO3)	257		3.50	5.00	mg/L	1	06-Oct-2023 18:26
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	U		0.0200	0.0500	mg/L	1	29-Sep-2023 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	0.0280	J	0.0200	0.0500	mg/L	1	29-Sep-2023 14:22
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	7.73	H	0.100	0.100	pH Units	1	06-Oct-2023 18:26
Temp Deg C @pH	19.2	H	0	0	°C	1	06-Oct-2023 18:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-19S
 Collection Date: 27-Sep-2023 17:29

ANALYTICAL REPORT

WorkOrder:HS23091613
 Lab ID:HS23091613-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	0.000595	J	0.000400	0.00200	mg/L	1	09-Oct-2023 18:51
Arsenic	0.00702		0.000400	0.00200	mg/L	1	09-Oct-2023 18:51
Barium	0.0170		0.00190	0.00400	mg/L	1	09-Oct-2023 18:51
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 18:51
Boron	9.51		1.10	2.00	mg/L	100	10-Oct-2023 13:21
Cadmium	0.000342	J	0.000200	0.00200	mg/L	1	09-Oct-2023 18:51
Calcium	41.7		0.0340	0.500	mg/L	1	09-Oct-2023 18:51
Chromium	0.00118	J	0.000400	0.00400	mg/L	1	09-Oct-2023 18:51
Cobalt	0.000266	J	0.000200	0.00500	mg/L	1	09-Oct-2023 18:51
Iron	0.0322	J	0.0120	0.200	mg/L	1	09-Oct-2023 18:51
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 18:51
Lithium	0.00176	J	0.00100	0.00500	mg/L	1	09-Oct-2023 18:51
Magnesium	0.0892	J	0.0100	0.200	mg/L	1	09-Oct-2023 18:51
Molybdenum	0.450		0.000600	0.00500	mg/L	1	09-Oct-2023 18:51
Potassium	37.2		0.0180	0.200	mg/L	1	09-Oct-2023 18:51
Selenium	0.0135		0.00110	0.00200	mg/L	1	09-Oct-2023 18:51
Sodium	830		1.40	20.0	mg/L	100	10-Oct-2023 13:21
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 18:51
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 21:45
Molybdenum	0.417		0.000600	0.00500	mg/L	1	09-Oct-2023 21:45
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 14:57
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	12.5		0.200	0.500	mg/L	1	29-Sep-2023 13:18
Fluoride	1.28		0.0500	0.100	mg/L	1	29-Sep-2023 13:18
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	29-Sep-2023 13:18
Sulfate	1,480		4.00	10.0	mg/L	20	29-Sep-2023 15:02
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	25.0		5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: CD			
Specific Conductivity	3,210		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-19S
 Collection Date: 27-Sep-2023 17:29

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	2,250		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:31
Alkalinity, Carbonate (As CaCO3)	53.0		3.50	5.00	mg/L	1	06-Oct-2023 18:31
Alkalinity, Hydroxide (As CaCO3)	63.2		3.50	5.00	mg/L	1	06-Oct-2023 18:31
Alkalinity, Total (As CaCO3)	116		3.50	5.00	mg/L	1	06-Oct-2023 18:31
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	0.0510		0.0200	0.0500	mg/L	1	29-Sep-2023 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	0.0710		0.0200	0.0500	mg/L	1	29-Sep-2023 14:22
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	10.6	H	0.100	0.100	pH Units	1	06-Oct-2023 18:31
Temp Deg C @pH	19.2	H	0	0	°C	1	06-Oct-2023 18:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: Dup 1
 Collection Date: 27-Sep-2023 00:00

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.0450	J	0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved		U	0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony		U	0.000400	0.00200	mg/L	1	09-Oct-2023 20:36
Arsenic	0.00357		0.000400	0.00200	mg/L	1	09-Oct-2023 20:36
Barium	0.00246	J	0.00190	0.00400	mg/L	1	09-Oct-2023 20:36
Beryllium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:36
Boron	4.06		1.10	2.00	mg/L	100	10-Oct-2023 13:37
Cadmium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:36
Calcium	18.4		0.0340	0.500	mg/L	1	09-Oct-2023 20:36
Chromium	0.000611	J	0.000400	0.00400	mg/L	1	09-Oct-2023 20:36
Cobalt		U	0.000200	0.00500	mg/L	1	09-Oct-2023 20:36
Iron	0.0450	J	0.0120	0.200	mg/L	1	09-Oct-2023 20:36
Lead		U	0.000600	0.00200	mg/L	1	09-Oct-2023 20:36
Lithium	0.00219	J	0.00100	0.00500	mg/L	1	09-Oct-2023 20:36
Magnesium	0.0965	J	0.0100	0.200	mg/L	1	09-Oct-2023 20:36
Molybdenum	0.203		0.000600	0.00500	mg/L	1	09-Oct-2023 20:36
Potassium	16.1		0.0180	0.200	mg/L	1	09-Oct-2023 20:36
Selenium	0.0260		0.00110	0.00200	mg/L	1	09-Oct-2023 20:36
Sodium	382		1.40	20.0	mg/L	100	10-Oct-2023 13:37
Thallium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:36
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron		U	0.0120	0.200	mg/L	1	09-Oct-2023 22:08
Molybdenum	0.198		0.000600	0.00500	mg/L	1	09-Oct-2023 22:08
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury		U	0.0000300	0.000200	mg/L	1	09-Oct-2023 15:06
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	5.19		0.200	0.500	mg/L	1	29-Sep-2023 13:35
Fluoride	1.65		0.0500	0.100	mg/L	1	29-Sep-2023 13:35
Nitrogen, Nitrate (As N)	0.0729	J	0.0300	0.100	mg/L	1	29-Sep-2023 13:35
Sulfate	895		4.00	10.0	mg/L	20	29-Sep-2023 15:08
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4		Analyst: TH			
Chemical Oxygen Demand	17.0		5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: CD			
Specific Conductivity	1,990		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: Dup 1
 Collection Date: 27-Sep-2023 00:00

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	1,200		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:41
Alkalinity, Carbonate (As CaCO3)	37.2		3.50	5.00	mg/L	1	06-Oct-2023 18:41
Alkalinity, Hydroxide (As CaCO3)	21.8		3.50	5.00	mg/L	1	06-Oct-2023 18:41
Alkalinity, Total (As CaCO3)	59.0		3.50	5.00	mg/L	1	06-Oct-2023 18:41
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	U		0.0200	0.0500	mg/L	1	29-Sep-2023 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	29-Sep-2023 14:22
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: DW			
pH	10.1	H	0.100	0.100	pH Units	1	06-Oct-2023 18:41
Temp Deg C @pH	20.2	H	0	0	°C	1	06-Oct-2023 18:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-20
 Collection Date: 28-Sep-2023 10:18

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony		U	0.000400	0.00200	mg/L	1	09-Oct-2023 20:38
Arsenic	0.00105	J	0.000400	0.00200	mg/L	1	09-Oct-2023 20:38
Barium	0.0114		0.00190	0.00400	mg/L	1	09-Oct-2023 20:38
Beryllium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:38
Boron	0.646	J	0.550	1.00	mg/L	50	10-Oct-2023 13:39
Cadmium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:38
Calcium	327		1.70	25.0	mg/L	50	10-Oct-2023 13:39
Chromium		U	0.000400	0.00400	mg/L	1	09-Oct-2023 20:38
Cobalt	0.00106	J	0.000200	0.00500	mg/L	1	09-Oct-2023 20:38
Lead		U	0.000600	0.00200	mg/L	1	09-Oct-2023 20:38
Lithium	0.0966		0.00100	0.00500	mg/L	1	09-Oct-2023 20:38
Molybdenum	0.00110	J	0.000600	0.00500	mg/L	1	09-Oct-2023 20:38
Selenium		U	0.00110	0.00200	mg/L	1	09-Oct-2023 20:38
Thallium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:38
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury		U	0.0000300	0.000200	mg/L	1	09-Oct-2023 15:08
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	5.10		0.200	0.500	mg/L	1	29-Sep-2023 13:41
Fluoride	0.311		0.0500	0.100	mg/L	1	29-Sep-2023 13:41
Nitrogen, Nitrate (As N)		U	0.0300	0.100	mg/L	1	29-Sep-2023 13:41
Sulfate	776		4.00	10.0	mg/L	20	29-Sep-2023 15:14
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4				Analyst: TH	
Chemical Oxygen Demand	11.0	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B				Analyst: CD	
Specific Conductivity	2,140		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: DC	
Total Dissolved Solids (Residue, Filterable)	1,660		5.00	10.0	mg/L	1	04-Oct-2023 11:24
PH BY SM4500H+ B-2011		Method:SM4500H+ B				Analyst: DW	
pH	7.81	H	0.100	0.100	pH Units	1	11-Oct-2023 19:08
Temp Deg C @pH	20.0	H	0	0	°C	1	11-Oct-2023 19:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-3
 Collection Date: 28-Sep-2023 10:11

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 20:40
Arsenic	0.000542	J	0.000400	0.00200	mg/L	1	09-Oct-2023 20:40
Barium	0.0147		0.00190	0.00400	mg/L	1	09-Oct-2023 20:40
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:40
Boron	2.41		0.550	1.00	mg/L	50	10-Oct-2023 13:48
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:40
Calcium	294		1.70	25.0	mg/L	50	10-Oct-2023 13:48
Chromium	0.000475	J	0.000400	0.00400	mg/L	1	09-Oct-2023 20:40
Cobalt	0.000683	J	0.000200	0.00500	mg/L	1	09-Oct-2023 20:40
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 20:40
Lithium	0.132		0.00100	0.00500	mg/L	1	09-Oct-2023 20:40
Molybdenum	0.000685	J	0.000600	0.00500	mg/L	1	09-Oct-2023 20:40
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 20:40
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 20:40
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 15:09
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	8.44		0.200	0.500	mg/L	1	29-Sep-2023 13:47
Fluoride	0.311		0.0500	0.100	mg/L	1	29-Sep-2023 13:47
Nitrogen, Nitrate (As N)	0.0654	J	0.0300	0.100	mg/L	1	29-Sep-2023 13:47
Sulfate	1,540		4.00	10.0	mg/L	20	29-Sep-2023 15:19
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4				Analyst: TH	
Chemical Oxygen Demand	14.0	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B				Analyst: CD	
Specific Conductivity	2,890		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: DC	
Total Dissolved Solids (Residue, Filterable)	2,200		5.00	10.0	mg/L	1	04-Oct-2023 11:24
PH BY SM4500H+ B-2011		Method:SM4500H+ B				Analyst: DW	
pH	7.53	H	0.100	0.100	pH Units	1	11-Oct-2023 19:10
Temp Deg C @pH	20.0	H	0	0	°C	1	11-Oct-2023 19:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: DUP 2
 Collection Date: 28-Sep-2023 10:18

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-12
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony		U	0.000400	0.00200	mg/L	1	09-Oct-2023 20:42
Arsenic	0.00108	J	0.000400	0.00200	mg/L	1	09-Oct-2023 20:42
Barium	0.0129		0.00190	0.00400	mg/L	1	09-Oct-2023 20:42
Beryllium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:42
Boron	0.953		0.0550	0.100	mg/L	5	10-Oct-2023 14:29
Cadmium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:42
Calcium	346		1.70	25.0	mg/L	50	10-Oct-2023 13:51
Chromium		U	0.000400	0.00400	mg/L	1	09-Oct-2023 20:42
Cobalt	0.00113	J	0.000200	0.00500	mg/L	1	09-Oct-2023 20:42
Lead		U	0.000600	0.00200	mg/L	1	09-Oct-2023 20:42
Lithium	0.113		0.00100	0.00500	mg/L	1	09-Oct-2023 20:42
Molybdenum	0.000874	J	0.000600	0.00500	mg/L	1	09-Oct-2023 20:42
Selenium		U	0.00110	0.00200	mg/L	1	09-Oct-2023 20:42
Thallium		U	0.000200	0.00200	mg/L	1	09-Oct-2023 20:42
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury		U	0.0000300	0.000200	mg/L	1	09-Oct-2023 15:11
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	5.13		0.200	0.500	mg/L	1	29-Sep-2023 13:53
Fluoride	0.295		0.0500	0.100	mg/L	1	29-Sep-2023 13:53
Nitrogen, Nitrate (As N)		U	0.0300	0.100	mg/L	1	29-Sep-2023 13:53
Sulfate	1,030		4.00	10.0	mg/L	20	29-Sep-2023 15:25
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4				Analyst: TH	
Chemical Oxygen Demand	10.0	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B				Analyst: CD	
Specific Conductivity	2,110		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: DC	
Total Dissolved Solids (Residue, Filterable)	1,500		5.00	10.0	mg/L	1	04-Oct-2023 11:24
PH BY SM4500H+ B-2011		Method:SM4500H+ B				Analyst: DW	
pH	7.88	H	0.100	0.100	pH Units	1	11-Oct-2023 19:12
Temp Deg C @pH	20.1	H	0	0	°C	1	11-Oct-2023 19:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-21
 Collection Date: 28-Sep-2023 15:15

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony		U	0.000400	0.00200	mg/L	1	09-Oct-2023 21:14
Arsenic	0.000792	J	0.000400	0.00200	mg/L	1	09-Oct-2023 21:14
Barium	0.0107		0.00190	0.00400	mg/L	1	09-Oct-2023 21:14
Beryllium	0.000260	J	0.000200	0.00200	mg/L	1	09-Oct-2023 21:14
Boron	2.30		0.550	1.00	mg/L	50	10-Oct-2023 13:53
Cadmium	0.000268	J	0.000200	0.00200	mg/L	1	09-Oct-2023 21:14
Calcium	144		0.0340	0.500	mg/L	1	09-Oct-2023 21:14
Chromium	0.000470	J	0.000400	0.00400	mg/L	1	09-Oct-2023 21:14
Cobalt	0.000332	J	0.000200	0.00500	mg/L	1	09-Oct-2023 21:14
Lead		U	0.000600	0.00200	mg/L	1	09-Oct-2023 21:14
Lithium	0.124		0.00100	0.00500	mg/L	1	09-Oct-2023 21:14
Molybdenum	0.000824	J	0.000600	0.00500	mg/L	1	09-Oct-2023 21:14
Selenium		U	0.00110	0.00200	mg/L	1	09-Oct-2023 21:14
Thallium	0.000250	J	0.000200	0.00200	mg/L	1	09-Oct-2023 21:14
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury		U	0.0000300	0.000200	mg/L	1	09-Oct-2023 15:13
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	22.1		0.400	1.00	mg/L	2	30-Sep-2023 11:05
Fluoride	0.553		0.100	0.200	mg/L	2	30-Sep-2023 11:05
Nitrogen, Nitrate (As N)		U	0.0600	0.200	mg/L	2	30-Sep-2023 11:05
Sulfate	1,760		10.0	25.0	mg/L	50	30-Sep-2023 11:11
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4				Analyst: TH	
Chemical Oxygen Demand	6.00	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B				Analyst: CD	
Specific Conductivity	3,590		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: DC	
Total Dissolved Solids (Residue, Filterable)	2,320		5.00	10.0	mg/L	1	04-Oct-2023 13:00
PH BY SM4500H+ B-2011		Method:SM4500H+ B				Analyst: DW	
pH	7.88	H	0.100	0.100	pH Units	1	11-Oct-2023 19:14
Temp Deg C @pH	20.1	H	0	0	°C	1	11-Oct-2023 19:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / CCR Landfill
 Sample ID: MW-13
 Collection Date: 28-Sep-2023 15:33

ANALYTICAL REPORT
 WorkOrder:HS23091613
 Lab ID:HS23091613-14
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Antimony	U		0.000400	0.00200	mg/L	1	09-Oct-2023 21:16
Arsenic	0.000451	J	0.000400	0.00200	mg/L	1	09-Oct-2023 21:16
Barium	0.00961		0.00190	0.00400	mg/L	1	09-Oct-2023 21:16
Beryllium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 21:16
Boron	2.14		1.10	2.00	mg/L	100	10-Oct-2023 13:55
Cadmium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 21:16
Calcium	156		0.0340	0.500	mg/L	1	09-Oct-2023 21:16
Chromium	0.000536	J	0.000400	0.00400	mg/L	1	09-Oct-2023 21:16
Cobalt	U		0.000200	0.00500	mg/L	1	09-Oct-2023 21:16
Lead	U		0.000600	0.00200	mg/L	1	09-Oct-2023 21:16
Lithium	0.127		0.00100	0.00500	mg/L	1	09-Oct-2023 21:16
Molybdenum	0.000857	J	0.000600	0.00500	mg/L	1	09-Oct-2023 21:16
Selenium	U		0.00110	0.00200	mg/L	1	09-Oct-2023 21:16
Thallium	U		0.000200	0.00200	mg/L	1	09-Oct-2023 21:16
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 09-Oct-2023		Analyst: JS	
Mercury	U		0.0000300	0.000200	mg/L	1	09-Oct-2023 15:14
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	19.7		0.200	0.500	mg/L	1	30-Sep-2023 10:42
Fluoride	0.414		0.0500	0.100	mg/L	1	30-Sep-2023 10:42
Nitrogen, Nitrate (As N)	0.0853	J	0.0300	0.100	mg/L	1	30-Sep-2023 10:42
Sulfate	1,600		4.00	10.0	mg/L	20	30-Sep-2023 10:59
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		Method:E410.4				Analyst: TH	
Chemical Oxygen Demand	6.00	J	5.00	15.0	mg/L	1	11-Oct-2023 15:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B				Analyst: CD	
Specific Conductivity	3,390		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: DC	
Total Dissolved Solids (Residue, Filterable)	2,040		5.00	10.0	mg/L	1	04-Oct-2023 13:00
PH BY SM4500H+ B-2011		Method:SM4500H+ B				Analyst: DW	
pH	7.98	H	0.100	0.100	pH Units	1	11-Oct-2023 19:16
Temp Deg C @pH	20.1	H	0	0	°C	1	11-Oct-2023 19:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

Batch ID: 201500 **Start Date:** 05 Oct 2023 15:30 **End Date:** 05 Oct 2023 15:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091613-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-04		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 201563 **Start Date:** 06 Oct 2023 12:00 **End Date:** 06 Oct 2023 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091613-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-14		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 201615 **Start Date:** 09 Oct 2023 08:30 **End Date:** 09 Oct 2023 08:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091613-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 201642 **Start Date:** 09 Oct 2023 08:00 **End Date:** 09 Oct 2023 08:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091613-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-03		10 (mL)	10 (mL)	1	120 plastic HNO3

Weight / Prep Log

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

Batch ID: 201644	Start Date: 09 Oct 2023 08:30	End Date: 09 Oct 2023 08:30
Method: MERCURY PREP BY 7470A- WATER		Prep Code: HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091613-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091613-14		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 201500 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03		05 Oct 2023 15:30	06 Oct 2023 17:32	1
HS23091613-02	MW-5S	26 Sep 2023 12:00		05 Oct 2023 15:30	06 Oct 2023 17:34	1
HS23091613-03	MW-14A	26 Sep 2023 15:40		05 Oct 2023 15:30	06 Oct 2023 17:36	1
HS23091613-04	MW-16	27 Sep 2023 12:05		05 Oct 2023 15:30	06 Oct 2023 17:38	1
Batch ID: 201563 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03		06 Oct 2023 12:00	10 Oct 2023 13:08	100
HS23091613-01	MW-15A	25 Sep 2023 17:03		06 Oct 2023 12:00	09 Oct 2023 19:05	1
HS23091613-02	MW-5S	26 Sep 2023 12:00		06 Oct 2023 12:00	10 Oct 2023 13:10	50
HS23091613-02	MW-5S	26 Sep 2023 12:00		06 Oct 2023 12:00	09 Oct 2023 19:07	1
HS23091613-03	MW-14A	26 Sep 2023 15:40		06 Oct 2023 12:00	10 Oct 2023 14:31	5
HS23091613-03	MW-14A	26 Sep 2023 15:40		06 Oct 2023 12:00	10 Oct 2023 13:12	50
HS23091613-03	MW-14A	26 Sep 2023 15:40		06 Oct 2023 12:00	09 Oct 2023 19:09	1
HS23091613-04	MW-16	27 Sep 2023 12:05		06 Oct 2023 12:00	10 Oct 2023 13:28	50
HS23091613-04	MW-16	27 Sep 2023 12:05		06 Oct 2023 12:00	09 Oct 2023 20:27	1
HS23091613-05	MW-18	27 Sep 2023 15:37		06 Oct 2023 12:00	10 Oct 2023 13:30	100
HS23091613-05	MW-18	27 Sep 2023 15:37		06 Oct 2023 12:00	09 Oct 2023 20:29	1
HS23091613-06	MW-7S	27 Sep 2023 18:03		06 Oct 2023 12:00	10 Oct 2023 13:33	50
HS23091613-06	MW-7S	27 Sep 2023 18:03		06 Oct 2023 12:00	09 Oct 2023 20:31	1
HS23091613-07	MW-17	27 Sep 2023 17:00		06 Oct 2023 12:00	10 Oct 2023 13:35	20
HS23091613-07	MW-17	27 Sep 2023 17:00		06 Oct 2023 12:00	09 Oct 2023 20:33	1
HS23091613-08	MW-19S	27 Sep 2023 17:29		06 Oct 2023 12:00	10 Oct 2023 13:21	100
HS23091613-08	MW-19S	27 Sep 2023 17:29		06 Oct 2023 12:00	09 Oct 2023 18:51	1
HS23091613-09	Dup 1	27 Sep 2023 00:00		06 Oct 2023 12:00	10 Oct 2023 13:37	100
HS23091613-09	Dup 1	27 Sep 2023 00:00		06 Oct 2023 12:00	09 Oct 2023 20:36	1
HS23091613-10	MW-20	28 Sep 2023 10:18		06 Oct 2023 12:00	10 Oct 2023 13:39	50
HS23091613-10	MW-20	28 Sep 2023 10:18		06 Oct 2023 12:00	09 Oct 2023 20:38	1
HS23091613-11	MW-3	28 Sep 2023 10:11		06 Oct 2023 12:00	10 Oct 2023 13:48	50
HS23091613-11	MW-3	28 Sep 2023 10:11		06 Oct 2023 12:00	09 Oct 2023 20:40	1
HS23091613-12	DUP 2	28 Sep 2023 10:18		06 Oct 2023 12:00	10 Oct 2023 14:29	5
HS23091613-12	DUP 2	28 Sep 2023 10:18		06 Oct 2023 12:00	10 Oct 2023 13:51	50
HS23091613-12	DUP 2	28 Sep 2023 10:18		06 Oct 2023 12:00	09 Oct 2023 20:42	1
HS23091613-13	MW-21	28 Sep 2023 15:15		06 Oct 2023 12:00	10 Oct 2023 13:53	50
HS23091613-13	MW-21	28 Sep 2023 15:15		06 Oct 2023 12:00	09 Oct 2023 21:14	1
HS23091613-14	MW-13	28 Sep 2023 15:33		06 Oct 2023 12:00	10 Oct 2023 13:55	100
HS23091613-14	MW-13	28 Sep 2023 15:33		06 Oct 2023 12:00	09 Oct 2023 21:16	1

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 201615 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23091613-05	MW-18	27 Sep 2023 15:37		09 Oct 2023 08:30	09 Oct 2023 22:01	1
HS23091613-06	MW-7S	27 Sep 2023 18:03		09 Oct 2023 08:30	09 Oct 2023 22:04	1
HS23091613-07	MW-17	27 Sep 2023 17:00		09 Oct 2023 08:30	09 Oct 2023 22:06	1
HS23091613-08	MW-19S	27 Sep 2023 17:29		09 Oct 2023 08:30	09 Oct 2023 21:45	1
HS23091613-09	Dup 1	27 Sep 2023 00:00		09 Oct 2023 08:30	09 Oct 2023 22:08	1
Batch ID: 201642 (0)		Test Name : MERCURY BY SW7470A			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03		09 Oct 2023 08:00	09 Oct 2023 14:12	1
HS23091613-02	MW-5S	26 Sep 2023 12:00		09 Oct 2023 08:00	09 Oct 2023 14:13	1
HS23091613-03	MW-14A	26 Sep 2023 15:40		09 Oct 2023 08:00	09 Oct 2023 14:15	1
Batch ID: 201644 (0)		Test Name : MERCURY BY SW7470A			Matrix: Water	
HS23091613-04	MW-16	27 Sep 2023 12:05		09 Oct 2023 08:30	09 Oct 2023 14:42	1
HS23091613-05	MW-18	27 Sep 2023 15:37		09 Oct 2023 08:30	09 Oct 2023 14:44	1
HS23091613-06	MW-7S	27 Sep 2023 18:03		09 Oct 2023 08:30	09 Oct 2023 14:45	1
HS23091613-07	MW-17	27 Sep 2023 17:00		09 Oct 2023 08:30	09 Oct 2023 14:47	1
HS23091613-08	MW-19S	27 Sep 2023 17:29		09 Oct 2023 08:30	09 Oct 2023 14:57	1
HS23091613-09	Dup 1	27 Sep 2023 00:00		09 Oct 2023 08:30	09 Oct 2023 15:06	1
HS23091613-10	MW-20	28 Sep 2023 10:18		09 Oct 2023 08:30	09 Oct 2023 15:08	1
HS23091613-11	MW-3	28 Sep 2023 10:11		09 Oct 2023 08:30	09 Oct 2023 15:09	1
HS23091613-12	DUP 2	28 Sep 2023 10:18		09 Oct 2023 08:30	09 Oct 2023 15:11	1
HS23091613-13	MW-21	28 Sep 2023 15:15		09 Oct 2023 08:30	09 Oct 2023 15:13	1
HS23091613-14	MW-13	28 Sep 2023 15:33		09 Oct 2023 08:30	09 Oct 2023 15:14	1
Batch ID: R447500 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			27 Sep 2023 16:26	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			27 Sep 2023 16:26	1
Batch ID: R447503 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			27 Sep 2023 16:30	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			27 Sep 2023 16:30	1
Batch ID: R447536 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			27 Sep 2023 14:57	20
HS23091613-01	MW-15A	25 Sep 2023 17:03			27 Sep 2023 14:51	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			27 Sep 2023 15:20	20
HS23091613-02	MW-5S	26 Sep 2023 12:00			27 Sep 2023 15:03	1
Batch ID: R447646 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091613-03	MW-14A	26 Sep 2023 15:40			28 Sep 2023 18:19	50
HS23091613-03	MW-14A	26 Sep 2023 15:40			28 Sep 2023 13:17	1
HS23091613-04	MW-16	27 Sep 2023 12:05			28 Sep 2023 18:48	50
HS23091613-04	MW-16	27 Sep 2023 12:05			28 Sep 2023 13:46	1

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R447658 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS23091613-03	MW-14A	26 Sep 2023 15:40			28 Sep 2023 15:32	1
HS23091613-04	MW-16	27 Sep 2023 12:05			28 Sep 2023 15:32	1
Batch ID: R447660 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091613-03	MW-14A	26 Sep 2023 15:40			28 Sep 2023 15:14	1
HS23091613-04	MW-16	27 Sep 2023 12:05			28 Sep 2023 15:14	1
Batch ID: R447705 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			29 Sep 2023 13:07	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			29 Sep 2023 13:07	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			29 Sep 2023 13:07	1
HS23091613-04	MW-16	27 Sep 2023 12:05			29 Sep 2023 13:07	1
Batch ID: R447738 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			28 Sep 2023 14:48	1
Batch ID: R447795 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091613-05	MW-18	27 Sep 2023 15:37			29 Sep 2023 13:58	20
HS23091613-05	MW-18	27 Sep 2023 15:37			29 Sep 2023 12:26	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			29 Sep 2023 14:04	20
HS23091613-06	MW-7S	27 Sep 2023 18:03			29 Sep 2023 12:32	1
HS23091613-07	MW-17	27 Sep 2023 17:00			29 Sep 2023 14:56	20
HS23091613-07	MW-17	27 Sep 2023 17:00			29 Sep 2023 13:12	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			29 Sep 2023 15:02	20
HS23091613-08	MW-19S	27 Sep 2023 17:29			29 Sep 2023 13:18	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			29 Sep 2023 15:08	20
HS23091613-09	Dup 1	27 Sep 2023 00:00			29 Sep 2023 13:35	1
HS23091613-10	MW-20	28 Sep 2023 10:18			29 Sep 2023 15:14	20
HS23091613-10	MW-20	28 Sep 2023 10:18			29 Sep 2023 13:41	1
HS23091613-11	MW-3	28 Sep 2023 10:11			29 Sep 2023 15:19	20
HS23091613-11	MW-3	28 Sep 2023 10:11			29 Sep 2023 13:47	1
HS23091613-12	DUP 2	28 Sep 2023 10:18			29 Sep 2023 15:25	20
HS23091613-12	DUP 2	28 Sep 2023 10:18			29 Sep 2023 13:53	1
Batch ID: R447844 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091613-13	MW-21	28 Sep 2023 15:15			30 Sep 2023 11:11	50
HS23091613-13	MW-21	28 Sep 2023 15:15			30 Sep 2023 11:05	2
HS23091613-14	MW-13	28 Sep 2023 15:33			30 Sep 2023 10:59	20
HS23091613-14	MW-13	28 Sep 2023 15:33			30 Sep 2023 10:42	1
Batch ID: R447845 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091613-02	MW-5S	26 Sep 2023 12:00			29 Sep 2023 13:00	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			29 Sep 2023 13:00	1

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R447856 (0)		Test Name : ALKALINITY BY -2011			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			29 Sep 2023 21:06	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			29 Sep 2023 21:12	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			29 Sep 2023 21:18	1
Batch ID: R447857 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			29 Sep 2023 21:06	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			29 Sep 2023 21:12	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			29 Sep 2023 21:18	1
Batch ID: R447858 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091613-04	MW-16	27 Sep 2023 12:05			29 Sep 2023 22:48	1
Batch ID: R447888 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS23091613-05	MW-18	27 Sep 2023 15:37			29 Sep 2023 14:22	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			29 Sep 2023 14:22	1
HS23091613-07	MW-17	27 Sep 2023 17:00			29 Sep 2023 14:22	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			29 Sep 2023 14:22	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			29 Sep 2023 14:22	1
Batch ID: R447889 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091613-05	MW-18	27 Sep 2023 15:37			29 Sep 2023 12:30	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			29 Sep 2023 12:30	1
HS23091613-07	MW-17	27 Sep 2023 17:00			29 Sep 2023 12:30	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			29 Sep 2023 12:30	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			29 Sep 2023 12:30	1
Batch ID: R447901 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			02 Oct 2023 13:09	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			02 Oct 2023 13:09	1
Batch ID: R447946 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS23091613-03	MW-14A	26 Sep 2023 15:40			03 Oct 2023 07:36	1
Batch ID: R447962 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091613-04	MW-16	27 Sep 2023 12:05			02 Oct 2023 13:00	1
HS23091613-05	MW-18	27 Sep 2023 15:37			02 Oct 2023 13:00	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			02 Oct 2023 13:00	1
HS23091613-07	MW-17	27 Sep 2023 17:00			02 Oct 2023 13:00	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			02 Oct 2023 13:00	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			02 Oct 2023 13:00	1

Client: Altamira
Project: WFEC / CCR Landfill
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DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R447979 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS23091613-04	MW-16	27 Sep 2023 12:05			03 Oct 2023 11:13	1
HS23091613-05	MW-18	27 Sep 2023 15:37			03 Oct 2023 11:13	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			03 Oct 2023 11:13	1
HS23091613-07	MW-17	27 Sep 2023 17:00			03 Oct 2023 11:13	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			03 Oct 2023 11:13	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			03 Oct 2023 11:13	1
Batch ID: R448230 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091613-10	MW-20	28 Sep 2023 10:18			04 Oct 2023 11:24	1
HS23091613-11	MW-3	28 Sep 2023 10:11			04 Oct 2023 11:24	1
HS23091613-12	DUP 2	28 Sep 2023 10:18			04 Oct 2023 11:24	1
Batch ID: R448231 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091613-13	MW-21	28 Sep 2023 15:15			04 Oct 2023 13:00	1
HS23091613-14	MW-13	28 Sep 2023 15:33			04 Oct 2023 13:00	1
Batch ID: R448460 (0)		Test Name : ALKALINITY BY -2011			Matrix: Water	
HS23091613-04	MW-16	27 Sep 2023 12:05			06 Oct 2023 18:10	1
HS23091613-05	MW-18	27 Sep 2023 15:37			06 Oct 2023 18:15	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			06 Oct 2023 18:20	1
HS23091613-07	MW-17	27 Sep 2023 17:00			06 Oct 2023 18:26	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			06 Oct 2023 18:31	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			06 Oct 2023 18:41	1
Batch ID: R448461 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091613-05	MW-18	27 Sep 2023 15:37			06 Oct 2023 18:15	1
HS23091613-07	MW-17	27 Sep 2023 17:00			06 Oct 2023 18:26	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			06 Oct 2023 18:31	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			06 Oct 2023 18:41	1
Batch ID: R448464 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091613-06	MW-7S	27 Sep 2023 18:03			06 Oct 2023 18:20	1

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R448504 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS23091613-05	MW-18	27 Sep 2023 15:37			09 Oct 2023 12:07	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			09 Oct 2023 12:07	1
HS23091613-07	MW-17	27 Sep 2023 17:00			09 Oct 2023 12:07	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			09 Oct 2023 12:07	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			09 Oct 2023 12:07	1
HS23091613-10	MW-20	28 Sep 2023 10:18			09 Oct 2023 12:07	1
HS23091613-11	MW-3	28 Sep 2023 10:11			09 Oct 2023 12:07	1
HS23091613-12	DUP 2	28 Sep 2023 10:18			09 Oct 2023 12:07	1
HS23091613-13	MW-21	28 Sep 2023 15:15			09 Oct 2023 12:07	1
HS23091613-14	MW-13	28 Sep 2023 15:33			09 Oct 2023 12:07	1
Batch ID: R448751 (0)		Test Name : FERRIC IRON - BY CALCULATION BY SM3500FED			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			11 Oct 2023 14:36	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			11 Oct 2023 14:36	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			11 Oct 2023 14:36	1
HS23091613-04	MW-16	27 Sep 2023 12:05			11 Oct 2023 14:36	1
HS23091613-05	MW-18	27 Sep 2023 15:37			11 Oct 2023 14:36	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			11 Oct 2023 14:36	1
HS23091613-07	MW-17	27 Sep 2023 17:00			11 Oct 2023 14:36	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			11 Oct 2023 14:36	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			11 Oct 2023 14:36	1
Batch ID: R448753 (0)		Test Name : FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			11 Oct 2023 14:41	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			11 Oct 2023 14:41	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			11 Oct 2023 14:41	1
HS23091613-04	MW-16	27 Sep 2023 12:05			11 Oct 2023 14:41	1
HS23091613-05	MW-18	27 Sep 2023 15:37			11 Oct 2023 14:41	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			11 Oct 2023 14:41	1
HS23091613-07	MW-17	27 Sep 2023 17:00			11 Oct 2023 14:41	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			11 Oct 2023 14:41	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			11 Oct 2023 14:41	1

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R448773 (0)		Test Name : CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993			Matrix: Water	
HS23091613-01	MW-15A	25 Sep 2023 17:03			11 Oct 2023 15:00	1
HS23091613-02	MW-5S	26 Sep 2023 12:00			11 Oct 2023 15:00	1
HS23091613-03	MW-14A	26 Sep 2023 15:40			11 Oct 2023 15:00	1
HS23091613-04	MW-16	27 Sep 2023 12:05			11 Oct 2023 15:00	1
HS23091613-05	MW-18	27 Sep 2023 15:37			11 Oct 2023 15:00	1
HS23091613-06	MW-7S	27 Sep 2023 18:03			11 Oct 2023 15:00	1
HS23091613-07	MW-17	27 Sep 2023 17:00			11 Oct 2023 15:00	1
HS23091613-08	MW-19S	27 Sep 2023 17:29			11 Oct 2023 15:00	1
HS23091613-09	Dup 1	27 Sep 2023 00:00			11 Oct 2023 15:00	1
HS23091613-10	MW-20	28 Sep 2023 10:18			11 Oct 2023 15:00	1
HS23091613-11	MW-3	28 Sep 2023 10:11			11 Oct 2023 15:00	1
HS23091613-12	DUP 2	28 Sep 2023 10:18			11 Oct 2023 15:00	1
HS23091613-13	MW-21	28 Sep 2023 15:15			11 Oct 2023 15:00	1
HS23091613-14	MW-13	28 Sep 2023 15:33			11 Oct 2023 15:00	1
Batch ID: R448796 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091613-10	MW-20	28 Sep 2023 10:18			11 Oct 2023 19:08	1
HS23091613-11	MW-3	28 Sep 2023 10:11			11 Oct 2023 19:10	1
HS23091613-12	DUP 2	28 Sep 2023 10:18			11 Oct 2023 19:12	1
HS23091613-13	MW-21	28 Sep 2023 15:15			11 Oct 2023 19:14	1
HS23091613-14	MW-13	28 Sep 2023 15:33			11 Oct 2023 19:16	1

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201500 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK		Sample ID: MBLK-201500		Units: mg/L		Analysis Date: 06-Oct-2023 16:16			
Client ID:		Run ID: ICPMS06_448339		SeqNo: 7591773		PrepDate: 05-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Iron	U	0.200							
Molybdenum	U	0.00500							

LCS		Sample ID: LCS-201500		Units: mg/L		Analysis Date: 06-Oct-2023 16:18			
Client ID:		Run ID: ICPMS06_448339		SeqNo: 7591774		PrepDate: 05-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Iron	4.744	0.200	5	0	94.9	80 - 120			
Molybdenum	0.04577	0.00500	0.05	0	91.5	80 - 120			

MS		Sample ID: HS23091469-01MS		Units: mg/L		Analysis Date: 06-Oct-2023 16:24			
Client ID:		Run ID: ICPMS06_448339		SeqNo: 7591777		PrepDate: 05-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Iron	11.87	0.200	5	7.021	96.9	75 - 125			
Molybdenum	0.04713	0.00500	0.05	0.000255	93.8	75 - 125			

MSD		Sample ID: HS23091469-01MSD		Units: mg/L		Analysis Date: 06-Oct-2023 16:26			
Client ID:		Run ID: ICPMS06_448339		SeqNo: 7591778		PrepDate: 05-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Iron	11.78	0.200	5	7.021	95.1	75 - 125	11.87	0.747	20
Molybdenum	0.0473	0.00500	0.05	0.000255	94.1	75 - 125	0.04713	0.349	20

PDS		Sample ID: HS23091469-01PDS		Units: mg/L		Analysis Date: 06-Oct-2023 16:28			
Client ID:		Run ID: ICPMS06_448339		SeqNo: 7591779		PrepDate: 05-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Iron	16.64	0.200	10	7.021	96.2	75 - 125			
Molybdenum	0.09833	0.00500	0.1	0	98.3	75 - 125			

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201500 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
SD	Sample ID: HS23091469-01SD	Units: mg/L			Analysis Date: 06-Oct-2023 16:22				
Client ID:	Run ID: ICPMS06_448339	SeqNo: 7591776		PrepDate: 05-Oct-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Iron	7.056	1.00					7.021	0.497	10
Molybdenum	U	0.0250					0.000255	0	10

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02 HS23091613-03 HS23091613-04

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201563 (0)		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-201563	Units: mg/L		Analysis Date: 09-Oct-2023 12:17					
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7594221		PrepDate: 06-Oct-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Antimony	U	0.00200							
Arsenic	U	0.00200							
Barium	U	0.00400							
Beryllium	U	0.00200							
Boron	U	0.0200							
Cadmium	U	0.00200							
Calcium	U	0.500							
Chromium	U	0.00400							
Cobalt	U	0.00500							
Iron	U	0.200							
Lead	U	0.00200							
Lithium	U	0.00500							
Magnesium	0.015	0.200							J
Molybdenum	U	0.00500							
Potassium	U	0.200							
Selenium	U	0.00200							
Sodium	U	0.200							
Thallium	U	0.00200							

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201563 (0) **Instrument:** ICPMS07 **Method:** ICP-MS METALS BY SW6020A

LCS		Sample ID: LCS-201563			Units: mg/L		Analysis Date: 09-Oct-2023 12:20			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7594222		PrepDate: 06-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05218	0.00200	0.05	0	104	80 - 120				
Arsenic	0.05089	0.00200	0.05	0	102	80 - 120				
Barium	0.04833	0.00400	0.05	0	96.7	80 - 120				
Beryllium	0.04514	0.00200	0.05	0	90.3	80 - 120				
Boron	0.4647	0.0200	0.5	0	92.9	80 - 120				
Cadmium	0.04833	0.00200	0.05	0	96.7	80 - 120				
Calcium	5.016	0.500	5	0	100	80 - 120				
Chromium	0.04829	0.00400	0.05	0	96.6	80 - 120				
Cobalt	0.04935	0.00500	0.05	0	98.7	80 - 120				
Iron	4.984	0.200	5	0	99.7	80 - 120				
Lead	0.04612	0.00200	0.05	0	92.2	80 - 120				
Lithium	0.09042	0.00500	0.1	0	90.4	80 - 120				
Magnesium	4.876	0.200	5	0	97.5	80 - 120				
Molybdenum	0.04754	0.00500	0.05	0	95.1	80 - 120				
Potassium	5.009	0.200	5	0	100	80 - 120				
Selenium	0.04477	0.00200	0.05	0	89.5	80 - 120				
Sodium	4.985	0.200	5	0	99.7	80 - 120				

LCS		Sample ID: LCS-201563			Units: mg/L		Analysis Date: 09-Oct-2023 13:44			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7594645		PrepDate: 06-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04012	0.00200	0.05	0	80.2	80 - 120				

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201563 (0)		Instrument: ICPMS07			Method: ICP-MS METALS BY SW6020A					
MS	Sample ID: HS23091613-08MS	Units: mg/L			Analysis Date: 09-Oct-2023 18:56					
Client ID: MW-19S	Run ID: ICPMS07_448499	SeqNo: 7595697	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05426	0.00200	0.05	0.000595	107	80 - 120				
Arsenic	0.06396	0.00200	0.05	0.00702	114	80 - 120				
Barium	0.06846	0.00400	0.05	0.01705	103	80 - 120				
Beryllium	0.04947	0.00200	0.05	0.000151	98.6	80 - 120				
Boron	8.733	0.0200	0.5	7.862	174	80 - 120				SEO
Cadmium	0.05115	0.00200	0.05	0.000342	102	80 - 120				
Calcium	47.73	0.500	5	41.67	121	80 - 120				SO
Chromium	0.05434	0.00400	0.05	0.001178	106	80 - 120				
Cobalt	0.05402	0.00500	0.05	0.000266	108	80 - 120				
Iron	5.533	0.200	5	0.03221	110	80 - 120				
Lead	0.04852	0.00200	0.05	0.000378	96.3	80 - 120				
Lithium	0.1035	0.00500	0.1	0.001763	102	80 - 120				
Magnesium	5.68	0.200	5	0.08917	112	80 - 120				
Molybdenum	0.5056	0.00500	0.05	0.4502	111	80 - 120				O
Potassium	44.24	0.200	5	37.15	142	80 - 120				SO
Selenium	0.06393	0.00200	0.05	0.01353	101	80 - 120				
Sodium	715.7	0.200	5	686.1	591	80 - 120				SEO
Thallium	0.03484	0.00200	0.05	0.000178	69.3	80 - 120				S

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201563 (0)		Instrument: ICPMS07			Method: ICP-MS METALS BY SW6020A					
MSD	Sample ID: HS23091613-08MSD	Units: mg/L			Analysis Date: 09-Oct-2023 18:58					
Client ID: MW-19S	Run ID: ICPMS07_448499	SeqNo: 7595698	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0535	0.00200	0.05	0.000595	106	80 - 120	0.05426	1.41	20	
Arsenic	0.06216	0.00200	0.05	0.00702	110	80 - 120	0.06396	2.86	20	
Barium	0.06743	0.00400	0.05	0.01705	101	80 - 120	0.06846	1.51	20	
Beryllium	0.0478	0.00200	0.05	0.000151	95.3	80 - 120	0.04947	3.43	20	
Boron	8.666	0.0200	0.5	7.862	161	80 - 120	8.733	0.761	20	SEO
Cadmium	0.05063	0.00200	0.05	0.000342	101	80 - 120	0.05115	1.02	20	
Calcium	46.77	0.500	5	41.67	102	80 - 120	47.73	2.04	20	O
Chromium	0.0529	0.00400	0.05	0.001178	103	80 - 120	0.05434	2.69	20	
Cobalt	0.05263	0.00500	0.05	0.000266	105	80 - 120	0.05402	2.61	20	
Iron	5.408	0.200	5	0.03221	108	80 - 120	5.533	2.3	20	
Lead	0.04833	0.00200	0.05	0.000378	95.9	80 - 120	0.04852	0.401	20	
Lithium	0.102	0.00500	0.1	0.001763	100	80 - 120	0.1035	1.5	20	
Magnesium	5.493	0.200	5	0.08917	108	80 - 120	5.68	3.35	20	
Molybdenum	0.5041	0.00500	0.05	0.4502	108	80 - 120	0.5056	0.299	20	O
Potassium	43.3	0.200	5	37.15	123	80 - 120	44.24	2.15	20	SO
Selenium	0.06258	0.00200	0.05	0.01353	98.1	80 - 120	0.06393	2.13	20	
Sodium	696.3	0.200	5	686.1	204	80 - 120	715.7	2.74	20	SEO
Thallium	0.03494	0.00200	0.05	0.000178	69.5	80 - 120	0.03484	0.292	20	S

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201563 (0)	Instrument: ICPMS07	Method: ICP-MS METALS BY SW6020A
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PDS		Sample ID: HS23091613-08PDS			Units: mg/L		Analysis Date: 09-Oct-2023 19:00			
Client ID: MW-19S		Run ID: ICPMS07_448499			SeqNo: 7595699		PrepDate: 06-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.107	0.00200	0.1	0.000595	106	75 - 125				
Arsenic	0.1169	0.00200	0.1	0.00702	110	75 - 125				
Barium	0.1182	0.00400	0.1	0.01705	101	75 - 125				
Beryllium	0.09551	0.00200	0.1	0.000151	95.4	75 - 125				
Cadmium	0.1001	0.00200	0.1	0.000342	99.8	75 - 125				
Calcium	50.84	0.500	10	41.67	91.7	75 - 125				O
Chromium	0.1039	0.00400	0.1	0.001178	103	75 - 125				
Cobalt	0.1052	0.00500	0.1	0.000266	105	75 - 125				
Iron	10.69	0.200	10	0.03221	107	75 - 125				
Lead	0.1024	0.00200	0.1	0.000378	102	75 - 125				
Lithium	0.1008	0.00500	0.1	0.001763	99.0	70 - 125				
Magnesium	10.82	0.200	10	0.08917	107	75 - 125				
Molybdenum	0.5378	0.00500	0.1	0.4502	87.6	75 - 125				O
Potassium	47.63	0.200	10	37.15	105	75 - 125				
Selenium	0.1183	0.00200	0.1	0.01353	105	75 - 125				
Thallium	0.09216	0.00200	0.1	0.000178	92.0	75 - 125				

PDS		Sample ID: HS23091613-08PDS			Units: mg/L		Analysis Date: 10-Oct-2023 13:26			
Client ID: MW-19S		Run ID: ICPMS07_448603			SeqNo: 7597390		PrepDate: 06-Oct-2023		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	57.05	2.00	50	9.511	95.1	75 - 125				

PDS		Sample ID: HS23091613-08PDS			Units: mg/L		Analysis Date: 10-Oct-2023 14:07			
Client ID: MW-19S		Run ID: ICPMS07_448603			SeqNo: 7597432		PrepDate: 06-Oct-2023		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1715	20.0	1000	829.8	88.5	75 - 125				

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201563 (0)		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
SD	Sample ID: HS23091613-08SD	Units: mg/L			Analysis Date: 09-Oct-2023 18:53					
Client ID: MW-19S	Run ID: ICPMS07_448499	SeqNo: 7595696		PrepDate: 06-Oct-2023		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Antimony	U	0.0100					0.000595	0	10	
Arsenic	0.006081	0.0100					0.00702	0	10 J	
Barium	0.01407	0.0200					0.01705	0	10 J	
Beryllium	U	0.0100					0.000151	0	10	
Cadmium	U	0.0100					0.000342	0	10	
Calcium	35.4	2.50					41.67	15	10 R	
Chromium	U	0.0200					0.001178	0	10	
Cobalt	U	0.0250					0.000266	0	10	
Iron	U	1.00					0.03221	0	10	
Lead	U	0.0100					0.000378	0	10	
Lithium	U	0.0250					0.001763	0	10	
Magnesium	0.08654	1.00					0.08917	0	10 J	
Molybdenum	0.3628	0.0250					0.4502	19.4	10 R	
Potassium	33.99	1.00					37.15	8.53	10	
Thallium	U	0.0100					0.000178	0	10	

SD	Sample ID: HS23091613-08SD	Units: mg/L			Analysis Date: 10-Oct-2023 13:23				
Client ID: MW-19S	Run ID: ICPMS07_448603	SeqNo: 7597389		PrepDate: 06-Oct-2023		DF: 500			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Boron	10.78	10.0					9.511	0	10
Sodium	828.5	100					829.8	0.147	10

The following samples were analyzed in this batch:

HS23091613-01	HS23091613-02	HS23091613-03	HS23091613-04
HS23091613-05	HS23091613-06	HS23091613-07	HS23091613-08
HS23091613-09	HS23091613-10	HS23091613-11	HS23091613-12
HS23091613-13	HS23091613-14		

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201615 (0)		Instrument: ICPMS07			Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLK-201615	Units: mg/L			Analysis Date: 09-Oct-2023 19:24					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595708		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.200								
Molybdenum	U	0.00500								
LCS	Sample ID: LCS-201615	Units: mg/L			Analysis Date: 09-Oct-2023 19:31					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595709		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.305	0.200	5	0	106	80 - 120				
Molybdenum	0.04858	0.00500	0.05	0	97.2	80 - 120				
MS	Sample ID: HS23091613-08MS	Units: mg/L			Analysis Date: 09-Oct-2023 21:50					
Client ID: MW-19S		Run ID: ICPMS07_448499			SeqNo: 7596123		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.864	0.200	5	0.005204	97.2	75 - 125				
Molybdenum	0.4344	0.00500	0.05	0.4166	35.5	75 - 125				SO
MSD	Sample ID: HS23091613-08MSD	Units: mg/L			Analysis Date: 09-Oct-2023 21:52					
Client ID: MW-19S		Run ID: ICPMS07_448499			SeqNo: 7596124		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.801	0.200	5	0.005204	95.9	75 - 125	4.864	1.3	20	
Molybdenum	0.4362	0.00500	0.05	0.4166	39.3	75 - 125	0.4344	0.43	20	SO
PDS	Sample ID: HS23091613-08PDS	Units: mg/L			Analysis Date: 09-Oct-2023 21:55					
Client ID: MW-19S		Run ID: ICPMS07_448499			SeqNo: 7596125		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	11.83	0.200	10	0.005204	118	75 - 125				
Molybdenum	0.5089	0.00500	0.1	0.4166	92.3	75 - 125				O

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201615 (0) **Instrument:** ICPMS07 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS23091613-08SD** Units: **mg/L** Analysis Date: **09-Oct-2023 21:48**
Client ID: **MW-19S** **Run ID:** **ICPMS07_448499** **SeqNo:** **7596122** **PrepDate:** **09-Oct-2023** **DF:** **5**
Analyte **Result** **PQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Iron	U	1.00					0.005204	0	10
Molybdenum	0.4076	0.0250					0.4166	2.16	10

The following samples were analyzed in this batch: HS23091613-05 HS23091613-06 HS23091613-07 HS23091613-08
 HS23091613-09

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201642 (0)	Instrument: HG04	Method: MERCURY BY SW7470A
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MBLK	Sample ID: MBLK-201642	Units: mg/L	Analysis Date: 09-Oct-2023 13:42							
Client ID:	Run ID: HG04_448545	SeqNo: 7595403	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

LCS	Sample ID: LCS-201642	Units: mg/L	Analysis Date: 09-Oct-2023 13:43							
Client ID:	Run ID: HG04_448545	SeqNo: 7595404	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00496 0.000200 0.005 0 99.2 80 - 120

MS	Sample ID: HS23091494-01MS	Units: mg/L	Analysis Date: 09-Oct-2023 13:47							
Client ID:	Run ID: HG04_448545	SeqNo: 7595406	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00406 0.000200 0.005 0.000005 81.1 75 - 125

MSD	Sample ID: HS23091494-01MSD	Units: mg/L	Analysis Date: 09-Oct-2023 13:48							
Client ID:	Run ID: HG04_448545	SeqNo: 7595407	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00397 0.000200 0.005 0.000005 79.3 75 - 125 0.00406 2.24 20

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02 HS23091613-03

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: 201644 (0)	Instrument: HG04	Method: MERCURY BY SW7470A
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MBLK	Sample ID: MBLK-201644	Units: mg/L	Analysis Date: 09-Oct-2023 14:39							
Client ID:	Run ID: HG04_448545	SeqNo: 7595431	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

LCS	Sample ID: LCS-201644	Units: mg/L	Analysis Date: 09-Oct-2023 14:40							
Client ID:	Run ID: HG04_448545	SeqNo: 7595432	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00483 0.000200 0.005 0 96.6 80 - 120

MS	Sample ID: HS23091613-08MS	Units: mg/L	Analysis Date: 09-Oct-2023 15:01							
Client ID: MW-19S	Run ID: HG04_448545	SeqNo: 7595440	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.0048 0.000200 0.005 0.000004 95.9 75 - 125

MSD	Sample ID: HS23091613-08MSD	Units: mg/L	Analysis Date: 09-Oct-2023 15:04							
Client ID: MW-19S	Run ID: HG04_448545	SeqNo: 7595441	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00461 0.000200 0.005 0.000004 92.1 75 - 125 0.0048 4.04 20

The following samples were analyzed in this batch:	HS23091613-04	HS23091613-05	HS23091613-06	HS23091613-07
	HS23091613-08	HS23091613-09	HS23091613-10	HS23091613-11
	HS23091613-12	HS23091613-13	HS23091613-14	

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447500 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R447500	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID:	Run ID: UV-2450_447500	SeqNo: 7568434		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R447500	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID:	Run ID: UV-2450_447500	SeqNo: 7568433		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.283 0.0500 0.25 0 113 80 - 120

MS	Sample ID: HS23091613-02MS	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID: MW-5S	Run ID: UV-2450_447500	SeqNo: 7568436		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.281 0.0500 0.25 -0.023 122 75 - 125

MSD	Sample ID: HS23091613-02MSD	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID: MW-5S	Run ID: UV-2450_447500	SeqNo: 7568435		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.272 0.0500 0.25 -0.023 118 75 - 125 0.281 3.25 20

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447503 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R447503	Units: mg/L		Analysis Date: 27-Sep-2023 16:30					
Client ID:	Run ID: UV-2450_447503	SeqNo: 7568447		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R447503		Units: mg/L		Analysis Date: 27-Sep-2023 16:30			
Client ID:	Run ID: UV-2450_447503	SeqNo: 7568446		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.269 0.0500 0.25 0 108 80 - 120

MS		Sample ID: HS23091616-01MS		Units: mg/L		Analysis Date: 27-Sep-2023 16:30			
Client ID:	Run ID: UV-2450_447503	SeqNo: 7568449		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.258 0.0500 0.25 -0.005 105 80 - 120

MSD		Sample ID: HS23091616-01MSD		Units: mg/L		Analysis Date: 27-Sep-2023 16:30			
Client ID:	Run ID: UV-2450_447503	SeqNo: 7568448		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.259 0.0500 0.25 -0.005 106 80 - 120 0.258 0.387 20

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447536 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK		Sample ID: MBLK		Units: mg/L		Analysis Date: 27-Sep-2023 14:34			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569632		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
Fluoride	U	0.100							
Nitrogen, Nitrate (As N)	U	0.100							
Sulfate	U	0.500							

LCS		Sample ID: LCS		Units: mg/L		Analysis Date: 27-Sep-2023 14:45			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569633		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.38	0.500	20	0	102	90 - 110			
Fluoride	3.862	0.100	4	0	96.6	90 - 110			
Nitrogen, Nitrate (As N)	3.858	0.100	4	0	96.4	90 - 110			
Sulfate	20.01	0.500	20	0	100	90 - 110			

MS		Sample ID: HS23091613-02MS		Units: mg/L		Analysis Date: 27-Sep-2023 15:09			
Client ID: MW-5S		Run ID: ICS-Integrion_447536		SeqNo: 7569637		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	33.85	0.500	10	24.75	91.0	80 - 120			
Fluoride	3.162	0.100	2	1.201	98.1	80 - 120			
Nitrogen, Nitrate (As N)	2.181	0.100	2	0.3101	93.5	80 - 120			
Sulfate	503.4	0.500	10	509.6	-62.2	80 - 120			SEO

MS		Sample ID: HS23090943-04MS		Units: mg/L		Analysis Date: 27-Sep-2023 16:52			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569652		PrepDate:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	688.8	5.00	100	624.6	64.1	80 - 120			SO
Fluoride	20.8	1.00	20	2.895	89.6	80 - 120			
Nitrogen, Nitrate (As N)	18.97	1.00	20	0	94.8	80 - 120			
Sulfate	344.2	5.00	100	280	64.1	80 - 120			S

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447536 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MSD	Sample ID: HS23091613-02MSD	Units: mg/L			Analysis Date: 27-Sep-2023 15:14					
Client ID: MW-5S	Run ID: ICS-Integrion_447536	SeqNo: 7569638	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	33.96	0.500	10	24.75	92.1	80 - 120	33.85	0.327	20	
Fluoride	3.173	0.100	2	1.201	98.6	80 - 120	3.162	0.338	20	
Nitrogen, Nitrate (As N)	2.186	0.100	2	0.3101	93.8	80 - 120	2.181	0.266	20	
Sulfate	503.8	0.500	10	509.6	-58.8	80 - 120	503.4	0.0674	20	SEO

MSD	Sample ID: HS23090943-04MSD	Units: mg/L			Analysis Date: 27-Sep-2023 16:58					
Client ID:	Run ID: ICS-Integrion_447536	SeqNo: 7569653	PrepDate:	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	689.7	5.00	100	624.6	65.1	80 - 120	688.8	0.141	20	SO
Fluoride	20.9	1.00	20	2.895	90.0	80 - 120	20.8	0.47	20	
Nitrogen, Nitrate (As N)	18.99	1.00	20	0	95.0	80 - 120	18.97	0.116	20	
Sulfate	345.7	5.00	100	280	65.6	80 - 120	344.2	0.439	20	S

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447646 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 28-Sep-2023 16:59					
Client ID:	Run ID: ICS-Integrion_447646	SeqNo: 7572462	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Sulfate	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 28-Sep-2023 17:16					
Client ID:	Run ID: ICS-Integrion_447646	SeqNo: 7572463	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	20.07	0.500	20	0	100	90 - 110				
Fluoride	3.69	0.100	4	0	92.2	90 - 110				
Nitrogen, Nitrate (As N)	3.784	0.100	4	0	94.6	90 - 110				
Nitrogen, Nitrite (As N)	3.998	0.100	4	0	99.9	90 - 110				
Sulfate	18.79	0.500	20	0	94.0	90 - 110				
MS	Sample ID: HS23091740-01MS	Units: mg/L			Analysis Date: 28-Sep-2023 17:28					
Client ID:	Run ID: ICS-Integrion_447646	SeqNo: 7572465	PrepDate:	DF: 2						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	1632	1.00	20	1693	-309	80 - 120			SEO	
Fluoride	4.061	0.200	4	0.5628	87.5	80 - 120				
Nitrogen, Nitrate (As N)	3.642	0.200	4	0.1182	88.1	80 - 120				
Nitrogen, Nitrite (As N)	1.679	0.200	4	0	42.0	80 - 120			S	
Sulfate	501.9	1.00	20	491.5	52.4	80 - 120			SEO	

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447646 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MS		Sample ID: HS23091616-07MSD		Units: mg/L		Analysis Date: 28-Sep-2023 19:05				
Client ID:		Run ID: ICS-Integrion_447646		SeqNo: 7572478		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	134.8	5.00	100	32.7	102	80 - 120				
Fluoride	19.2	1.00	20	1.258	89.7	80 - 120				
Nitrogen, Nitrate (As N)	22.82	1.00	20	4.019	94.0	80 - 120				
Nitrogen, Nitrite (As N)	19.46	1.00	20	0	97.3	80 - 120				
Sulfate	634.1	5.00	100	525.1	109	80 - 120				O
MSD		Sample ID: HS23091740-01MSD		Units: mg/L		Analysis Date: 28-Sep-2023 17:33				
Client ID:		Run ID: ICS-Integrion_447646		SeqNo: 7572466		PrepDate:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1628	1.00	20	1693	-325	80 - 120	1632	0.196	20	SEO
Fluoride	4.219	0.200	4	0.5628	91.4	80 - 120	4.061	3.82	20	
Nitrogen, Nitrate (As N)	3.615	0.200	4	0.1182	87.4	80 - 120	3.642	0.722	20	
Nitrogen, Nitrite (As N)	1.672	0.200	4	0	41.8	80 - 120	1.679	0.466	20	S
Sulfate	502	1.00	20	491.5	52.5	80 - 120	501.9	0.00311	20	SEO
MSD		Sample ID: HS23091616-07MSD		Units: mg/L		Analysis Date: 28-Sep-2023 19:11				
Client ID:		Run ID: ICS-Integrion_447646		SeqNo: 7572479		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	134.2	5.00	100	32.7	101	80 - 120	134.8	0.461	20	
Fluoride	19.25	1.00	20	1.258	90.0	80 - 120	19.2	0.26	20	
Nitrogen, Nitrate (As N)	22.73	1.00	20	4.019	93.5	80 - 120	22.82	0.417	20	
Nitrogen, Nitrite (As N)	19.34	1.00	20	0	96.7	80 - 120	19.46	0.608	20	
Sulfate	631	5.00	100	525.1	106	80 - 120	634.1	0.489	20	O

The following samples were analyzed in this batch: HS23091613-03 HS23091613-04

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447658 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R447658	Units: mg/L		Analysis Date: 28-Sep-2023 15:32					
Client ID:	Run ID: UV-2450_447658	SeqNo: 7573214		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R447658		Units: mg/L		Analysis Date: 28-Sep-2023 15:32			
Client ID:	Run ID: UV-2450_447658	SeqNo: 7573213		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.252 0.0500 0.25 0 101 80 - 120

MS		Sample ID: HS23091616-11MS		Units: mg/L		Analysis Date: 28-Sep-2023 15:32			
Client ID:	Run ID: UV-2450_447658	SeqNo: 7573216		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.24 0.0500 0.25 0.015 90.0 80 - 120

MSD		Sample ID: HS23091616-11MSD		Units: mg/L		Analysis Date: 28-Sep-2023 15:32			
Client ID:	Run ID: UV-2450_447658	SeqNo: 7573215		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.239 0.0500 0.25 0.015 89.6 80 - 120 0.24 0.418 20

The following samples were analyzed in this batch: HS23091613-03 HS23091613-04

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447660 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R447660	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID:	Run ID: UV-2450_447660	SeqNo: 7573261		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R447660	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID:	Run ID: UV-2450_447660	SeqNo: 7573260		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.248 0.0500 0.25 0 99.2 80 - 120

MS	Sample ID: HS23091616-10MS	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID:	Run ID: UV-2450_447660	SeqNo: 7573263		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.242 0.0500 0.25 0.014 91.2 75 - 125

MSD	Sample ID: HS23091616-10MSD	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID:	Run ID: UV-2450_447660	SeqNo: 7573262		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.244 0.0500 0.25 0.014 92.0 75 - 125 0.242 0.823 20

The following samples were analyzed in this batch: HS23091613-03 HS23091613-04

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447705 (0) **Instrument:** WetChem_HS **Method:** SPECIFIC CONDUCTANCE BY SM 2510B-2011

MBLK Sample ID: **MBLK-R447705** Units: **umhos/cm @ 25.0 °C** Analysis Date: **29-Sep-2023 13:07**
 Client ID: Run ID: **WetChem_HS_447705** SeqNo: **7574077** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity U 5.00

LCS Sample ID: **LCS-R447705** Units: **umhos/cm @ 25.0 °C** Analysis Date: **29-Sep-2023 13:07**
 Client ID: Run ID: **WetChem_HS_447705** SeqNo: **7574076** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity 1381 5.00 1413 0 97.7 80 - 120

DUP Sample ID: **HS23091744-01DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **29-Sep-2023 13:07**
 Client ID: Run ID: **WetChem_HS_447705** SeqNo: **7574073** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity 2452 5.00 2457 0.204 20

The following samples were analyzed in this batch:

HS23091613-01	HS23091613-02	HS23091613-03	HS23091613-04
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Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447738 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-09282023	Units: mg/L		Analysis Date: 28-Sep-2023 14:48						
Client ID:	Run ID: Balance1_447738	SeqNo: 7574939		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-09282023	Units: mg/L		Analysis Date: 28-Sep-2023 14:48						
Client ID:	Run ID: Balance1_447738	SeqNo: 7574938		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1062	10.0	1000	0	106	85 - 115			
DUP	Sample ID: HS23091595-04DUP	Units: mg/L		Analysis Date: 28-Sep-2023 14:48						
Client ID:	Run ID: Balance1_447738	SeqNo: 7574934		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1168	10.0				1164	0.343	20	
DUP	Sample ID: HS23091534-01DUP	Units: mg/L		Analysis Date: 28-Sep-2023 14:48						
Client ID:	Run ID: Balance1_447738	SeqNo: 7574926		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		664	10.0				664	0	20	

The following samples were analyzed in this batch: HS23091613-01

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447795 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **29-Sep-2023 10:13**
 Client ID: Run ID: **ICS-Integrion_447795** SeqNo: **7575818** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **29-Sep-2023 10:24**
 Client ID: Run ID: **ICS-Integrion_447795** SeqNo: **7575819** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	20.25	0.500	20	0	101	90 - 110				
Fluoride	3.949	0.100	4	0	98.7	90 - 110				
Nitrogen, Nitrate (As N)	3.82	0.100	4	0	95.5	90 - 110				
Nitrogen, Nitrite (As N)	4.034	0.100	4	0	101	90 - 110				
Sulfate	19.97	0.500	20	0	99.8	90 - 110				

MS Sample ID: **HS23091774-06MS** Units: **mg/L** Analysis Date: **29-Sep-2023 10:36**
 Client ID: Run ID: **ICS-Integrion_447795** SeqNo: **7575821** PrepDate: DF: **20**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	732.4	10.0	200	566.2	83.1	80 - 120				
Fluoride	36.08	2.00	40	0	90.2	80 - 120				
Nitrogen, Nitrate (As N)	38.17	2.00	40	1.27	92.3	80 - 120				
Nitrogen, Nitrite (As N)	37.11	2.00	40	0	92.8	80 - 120				
Sulfate	212.7	10.0	200	22.19	95.3	80 - 120				

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447795 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MS		Sample ID: HS23091613-08MS		Units: mg/L		Analysis Date: 29-Sep-2023 13:24				
Client ID: MW-19S		Run ID: ICS-Integrion_447795		SeqNo: 7575843		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	22.06	0.500	10	12.47	95.8	80 - 120				
Fluoride	3.447	0.100	2	1.285	108	80 - 120				
Nitrogen, Nitrate (As N)	1.69	0.100	2	0	84.5	80 - 120				
Nitrogen, Nitrite (As N)	0.6553	0.100	2	0	32.8	80 - 120			S	
Sulfate	1350	0.500	10	1409	-586	80 - 120			SEO	
MSD		Sample ID: HS23091774-06MSD		Units: mg/L		Analysis Date: 29-Sep-2023 10:42				
Client ID:		Run ID: ICS-Integrion_447795		SeqNo: 7575822		PrepDate:		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	731.3	10.0	200	566.2	82.6	80 - 120	732.4	0.153	20	
Fluoride	35.67	2.00	40	0	89.2	80 - 120	36.08	1.14	20	
Nitrogen, Nitrate (As N)	37.94	2.00	40	1.27	91.7	80 - 120	38.17	0.62	20	
Nitrogen, Nitrite (As N)	37.03	2.00	40	0	92.6	80 - 120	37.11	0.21	20	
Sulfate	211.7	10.0	200	22.19	94.8	80 - 120	212.7	0.457	20	
MSD		Sample ID: HS23091613-08MSD		Units: mg/L		Analysis Date: 29-Sep-2023 13:30				
Client ID: MW-19S		Run ID: ICS-Integrion_447795		SeqNo: 7575878		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	21.99	0.500	10	12.47	95.2	80 - 120	22.06	0.3	20	
Fluoride	3.432	0.100	2	1.285	107	80 - 120	3.447	0.454	20	
Nitrogen, Nitrate (As N)	1.695	0.100	2	0	84.7	80 - 120	1.69	0.248	20	
Nitrogen, Nitrite (As N)	0.691	0.100	2	0	34.6	80 - 120	0.6553	5.3	20 S	
Sulfate	1345	0.500	10	1409	-637	80 - 120	1350	0.376	20 SEO	

The following samples were analyzed in this batch:

HS23091613-05	HS23091613-06	HS23091613-07	HS23091613-08
HS23091613-09	HS23091613-10	HS23091613-11	HS23091613-12

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447844 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **30-Sep-2023 12:20**
 Client ID: Run ID: **ICS-Integrion_447844** SeqNo: **7577600** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	U	0.500							
Fluoride	U	0.100							
Nitrogen, Nitrate (As N)	U	0.100							
Nitrogen, Nitrite (As N)	U	0.100							
Sulfate	U	0.500							

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **30-Sep-2023 12:32**
 Client ID: Run ID: **ICS-Integrion_447844** SeqNo: **7577601** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	20.12	0.500	20	0	101	90 - 110			
Fluoride	3.83	0.100	4	0	95.7	90 - 110			
Nitrogen, Nitrate (As N)	3.778	0.100	4	0	94.5	90 - 110			
Nitrogen, Nitrite (As N)	3.988	0.100	4	0	99.7	90 - 110			
Sulfate	19.4	0.500	20	0	97.0	90 - 110			

MS Sample ID: **HS23091835-21MS** Units: **mg/L** Analysis Date: **30-Sep-2023 16:11**
 Client ID: Run ID: **ICS-Integrion_447844** SeqNo: **7577607** PrepDate: DF: **5**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	73.59	2.50	50	22.44	102	80 - 120			
Fluoride	9.881	0.500	10	0.826	90.6	80 - 120			
Nitrogen, Nitrate (As N)	18.06	0.500	10	8.887	91.8	80 - 120			
Nitrogen, Nitrite (As N)	9.628	0.500	10	0.3165	93.1	80 - 120			
Sulfate	764.4	2.50	50	714.6	99.6	80 - 120			EO

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447844 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MS		Sample ID: HS23091613-14MSD		Units: mg/L		Analysis Date: 30-Sep-2023 10:48				
Client ID: MW-13		Run ID: ICS-Integrion_447844		SeqNo: 7577589		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	29.47	0.500	10	19.74	97.4	80 - 120				
Fluoride	2.307	0.100	2	0.4142	94.6	80 - 120				
Nitrogen, Nitrate (As N)	1.89	0.100	2	0.0853	90.2	80 - 120				
Nitrogen, Nitrite (As N)	0.6723	0.100	2	0	33.6	80 - 120			S	
Sulfate	1411	0.500	10	1440	-285	80 - 120			SEO	
MSD		Sample ID: HS23091835-21MSD		Units: mg/L		Analysis Date: 30-Sep-2023 16:17				
Client ID:		Run ID: ICS-Integrion_447844		SeqNo: 7577608		PrepDate:		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	73.1	2.50	50	22.44	101	80 - 120	73.59	0.675	20	
Fluoride	9.597	0.500	10	0.826	87.7	80 - 120	9.881	2.92	20	
Nitrogen, Nitrate (As N)	18.01	0.500	10	8.887	91.2	80 - 120	18.06	0.299	20	
Nitrogen, Nitrite (As N)	9.558	0.500	10	0.3165	92.4	80 - 120	9.628	0.724	20	
Sulfate	759.3	2.50	50	714.6	89.3	80 - 120	764.4	0.674	20 EO	
MSD		Sample ID: HS23091613-14MSD		Units: mg/L		Analysis Date: 30-Sep-2023 10:53				
Client ID: MW-13		Run ID: ICS-Integrion_447844		SeqNo: 7577590		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	29.58	0.500	10	19.74	98.4	80 - 120	29.47	0.352	20	
Fluoride	2.393	0.100	2	0.4142	98.9	80 - 120	2.307	3.66	20	
Nitrogen, Nitrate (As N)	1.915	0.100	2	0.0853	91.5	80 - 120	1.89	1.34	20	
Nitrogen, Nitrite (As N)	0.6707	0.100	2	0	33.5	80 - 120	0.6723	0.238	20 S	
Sulfate	1413	0.500	10	1440	-272	80 - 120	1411	0.092	20 SEO	

The following samples were analyzed in this batch: HS23091613-13 HS23091613-14

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447845 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WMBLK-09292023	Units: mg/L			Analysis Date: 29-Sep-2023 13:00				
Client ID:	Run ID: Balance1_447845	SeqNo: 7577645		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-09292023	Units: mg/L			Analysis Date: 29-Sep-2023 13:00				
Client ID:	Run ID: Balance1_447845	SeqNo: 7577644		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1008 10.0 1000 0 101 85 - 115

DUP	Sample ID: HS23091713-05DUP	Units: mg/L			Analysis Date: 29-Sep-2023 13:00				
Client ID:	Run ID: Balance1_447845	SeqNo: 7577634		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 30 10.0 30 0 20

DUP	Sample ID: HS23091613-02DUP	Units: mg/L			Analysis Date: 29-Sep-2023 13:00				
Client ID: MW-5S	Run ID: Balance1_447845	SeqNo: 7577624		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 952 10.0 956 0.419 20

The following samples were analyzed in this batch: HS23091613-02 HS23091613-03

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447856 (0)	Instrument: Skalar 03	Method: ALKALINITY BY -2011
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MBLK	Sample ID: MBLK-09292023	Units: mg/L	Analysis Date: 29-Sep-2023 19:18							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577947	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS	Sample ID: LCS-09292023	Units: mg/L	Analysis Date: 29-Sep-2023 19:24							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577948	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	897.2	5.00	1000	0	89.7	85 - 115				
Alkalinity, Total (As CaCO3)	934.5	5.00	1000	0	93.4	85 - 115				

LCSD	Sample ID: LCSD-09292023	Units: mg/L	Analysis Date: 29-Sep-2023 19:31							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577949	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	895	5.00	1000	0	89.5	85 - 115	897.2	0.246	20	
Alkalinity, Total (As CaCO3)	934.3	5.00	1000	0	93.4	85 - 115	934.5	0.0214	20	

DUP	Sample ID: HS23091538-02DUP	Units: mg/L	Analysis Date: 29-Sep-2023 19:41							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577951	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	57.3	5.00					57.1	0.35	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	57.3	5.00					57.1	0.35	20	

The following samples were analyzed in this batch:

HS23091613-01	HS23091613-02	HS23091613-03
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Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447857 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS23091538-02DUP** Units: **pH Units** Analysis Date: **29-Sep-2023 19:41**
 Client ID: Run ID: **Skalar 03_447857** SeqNo: **7577983** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	7.6	0.100						7.58	0.264	10
Temp Deg C @pH	20.3	0						20.4	0.491	10

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02 HS23091613-03

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447858 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP	Sample ID: HS23091645-01DUP	Units: pH Units		Analysis Date: 29-Sep-2023 22:09						
Client ID:	Run ID: Skalar 03_447858	SeqNo: 7578002		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	10	0.100					10.01	0.1	10	
Temp Deg C @pH	21.3	0					21.2	0.471	10	

The following samples were analyzed in this batch: HS23091613-04

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447888 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R447888	Units: mg/L		Analysis Date: 29-Sep-2023 14:22					
Client ID:	Run ID: UV-2450_447888	SeqNo: 7578559		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R447888		Units: mg/L		Analysis Date: 29-Sep-2023 14:22			
Client ID:	Run ID: UV-2450_447888	SeqNo: 7578558		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.255 0.0500 0.25 0 102 80 - 120

MS		Sample ID: HS23091613-08MS		Units: mg/L		Analysis Date: 29-Sep-2023 14:22			
Client ID: MW-19S	Run ID: UV-2450_447888	SeqNo: 7578561		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.329 0.0500 0.25 0.071 103 80 - 120

MSD		Sample ID: HS23091613-08MSD		Units: mg/L		Analysis Date: 29-Sep-2023 14:22			
Client ID: MW-19S	Run ID: UV-2450_447888	SeqNo: 7578560		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.324 0.0500 0.25 0.071 101 80 - 120 0.329 1.53 20

The following samples were analyzed in this batch: HS23091613-05 HS23091613-06 HS23091613-07 HS23091613-08
 HS23091613-09

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447889 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R447889	Units: mg/L		Analysis Date: 29-Sep-2023 12:30					
Client ID:	Run ID: UV-2450_447889	SeqNo: 7578585		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R447889	Units: mg/L		Analysis Date: 29-Sep-2023 12:30					
Client ID:	Run ID: UV-2450_447889	SeqNo: 7578584		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.281 0.0500 0.25 0 112 80 - 120

MS	Sample ID: HS23091613-08MS	Units: mg/L		Analysis Date: 29-Sep-2023 12:30					
Client ID: MW-19S	Run ID: UV-2450_447889	SeqNo: 7578587		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.295 0.0500 0.25 0.051 97.6 75 - 125

MSD	Sample ID: HS23091613-08MSD	Units: mg/L		Analysis Date: 29-Sep-2023 12:30					
Client ID: MW-19S	Run ID: UV-2450_447889	SeqNo: 7578586		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.298 0.0500 0.25 0.051 98.8 75 - 125 0.295 1.01 20

The following samples were analyzed in this batch: HS23091613-05 HS23091613-06 HS23091613-07 HS23091613-08
 HS23091613-09

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447901 (0)	Instrument: WetChem_HS	Method: SULFIDE BY SM4500 S2-F-2011
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MBLK	Sample ID: MBLK-R447901	Units: mg/L	Analysis Date: 02-Oct-2023 13:09							
Client ID:	Run ID: WetChem_HS_447901	SeqNo: 7578888	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 2.00

LCS	Sample ID: LCS-R447901	Units: mg/L	Analysis Date: 02-Oct-2023 13:09							
Client ID:	Run ID: WetChem_HS_447901	SeqNo: 7578887	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 21.88 2.00 25 0 87.5 85 - 115

LCSD	Sample ID: LCSD-R447901	Units: mg/L	Analysis Date: 02-Oct-2023 13:09							
Client ID:	Run ID: WetChem_HS_447901	SeqNo: 7578889	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.08 2.00 25 0 88.3 85 - 115 21.88 0.91 20

MS	Sample ID: HS23091613-01MS	Units: mg/L	Analysis Date: 02-Oct-2023 13:09							
Client ID: MW-15A	Run ID: WetChem_HS_447901	SeqNo: 7578886	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.08 2.00 25 -1.72 95.2 80 - 120

The following samples were analyzed in this batch: HS23091613-01 HS23091613-02

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447946 (0)	Instrument: WetChem_HS	Method: SULFIDE BY SM4500 S2-F-2011
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MBLK	Sample ID: MBLK-R447946	Units: mg/L	Analysis Date: 03-Oct-2023 07:36							
Client ID:	Run ID: WetChem_HS_447946	SeqNo: 7579972	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 2.00

LCS	Sample ID: LCS-R447946	Units: mg/L	Analysis Date: 03-Oct-2023 07:36							
Client ID:	Run ID: WetChem_HS_447946	SeqNo: 7579971	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.08 2.00 25 0 88.3 85 - 115

LCSD	Sample ID: LCSD-R447946	Units: mg/L	Analysis Date: 03-Oct-2023 07:36							
Client ID:	Run ID: WetChem_HS_447946	SeqNo: 7579970	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 21.88 2.00 25 0 87.5 85 - 115 22.08 0.91 20

MS	Sample ID: HS23091616-01MS	Units: mg/L	Analysis Date: 03-Oct-2023 07:36							
Client ID:	Run ID: WetChem_HS_447946	SeqNo: 7579973	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.08 2.00 25 -1.52 94.4 80 - 120

The following samples were analyzed in this batch: HS23091613-03

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447962 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WMBLK-10022023	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580686		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-10022023	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580685		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1016 10.0 1000 0 102 85 - 115

DUP	Sample ID: HS23091796-02DUP	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580680		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 840 10.0 840 0 20

DUP	Sample ID: HS23091613-08DUP	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID: MW-19S	Run ID: Balance1_447962	SeqNo: 7580668		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 2240 10.0 2250 0.445 20

The following samples were analyzed in this batch:

HS23091613-04	HS23091613-05	HS23091613-06	HS23091613-07
HS23091613-08	HS23091613-09		

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R447979 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F-2011

MBLK Sample ID: **MBLK-R447979** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580934** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide U 2.00

LCS Sample ID: **LCS-R447979** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580933** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.08 2.00 25 0 88.3 85 - 115

LCSD Sample ID: **LCSD-R447979** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580932** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 0 87.5 85 - 115 22.08 0.91 20

MS Sample ID: **HS23091613-08MS** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: **MW-19S** Run ID: **WetChem_HS_447979** SeqNo: **7580935** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 -3.32 101 80 - 120

The following samples were analyzed in this batch: HS23091613-04 HS23091613-05 HS23091613-06 HS23091613-07
 HS23091613-08 HS23091613-09

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448230 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-10042023	Units: mg/L		Analysis Date: 04-Oct-2023 11:24						
Client ID:	Run ID: Balance1_448230	SeqNo: 7587106		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-10042023	Units: mg/L		Analysis Date: 04-Oct-2023 11:24						
Client ID:	Run ID: Balance1_448230	SeqNo: 7587105		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1028	10.0	1000	0	103	85 - 115			
DUP	Sample ID: HS23100054-05DUP	Units: mg/L		Analysis Date: 04-Oct-2023 11:24						
Client ID:	Run ID: Balance1_448230	SeqNo: 7587100		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1796	10.0				1800	0.222	20	
DUP	Sample ID: HS23091913-01DUP	Units: mg/L		Analysis Date: 04-Oct-2023 11:24						
Client ID:	Run ID: Balance1_448230	SeqNo: 7587088		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		706	10.0				708	0.283	20	

The following samples were analyzed in this batch: HS23091613-10 HS23091613-11 HS23091613-12

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448231 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-10042023	Units: mg/L		Analysis Date: 04-Oct-2023 13:00						
Client ID:	Run ID: Balance1_448231	SeqNo: 7587120		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-10042023	Units: mg/L		Analysis Date: 04-Oct-2023 13:00						
Client ID:	Run ID: Balance1_448231	SeqNo: 7587119		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1004	10.0	1000	0	100	85 - 115			
DUP	Sample ID: HS23091898-05DUP	Units: mg/L		Analysis Date: 04-Oct-2023 13:00						
Client ID:	Run ID: Balance1_448231	SeqNo: 7587117		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		2776	10.0			2772		0.144	20	
The following samples were analyzed in this batch:				HS23091613-13 HS23091613-14						

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448460 (0)	Instrument: Skalar 03	Method: ALKALINITY BY -2011
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MBLK	Sample ID: MBLK-10062023	Units: mg/L	Analysis Date: 06-Oct-2023 17:52							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593492	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS	Sample ID: LCS-10062023	Units: mg/L	Analysis Date: 06-Oct-2023 17:58							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593493	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	933.4	5.00	1000	0	93.3	85 - 115				
Alkalinity, Total (As CaCO3)	938	5.00	1000	0	93.8	85 - 115				

LCSD	Sample ID: LCSD-10062023	Units: mg/L	Analysis Date: 06-Oct-2023 18:04							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593494	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	937	5.00	1000	0	93.7	85 - 115	933.4	0.385	20	
Alkalinity, Total (As CaCO3)	942.1	5.00	1000	0	94.2	85 - 115	938	0.436	20	

DUP	Sample ID: HS23091613-08DUP	Units: mg/L	Analysis Date: 06-Oct-2023 18:36							
Client ID: MW-19S	Run ID: Skalar 03_448460	SeqNo: 7593500	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Carbonate (As CaCO3)	52.6	5.00					53	0.758	20	
Alkalinity, Hydroxide (As CaCO3)	63.8	5.00					63.2	0.945	20	
Alkalinity, Total (As CaCO3)	116.4	5.00					116.2	0.172	20	

The following samples were analyzed in this batch:

HS23091613-04	HS23091613-05	HS23091613-06	HS23091613-07
HS23091613-08	HS23091613-09		

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448461 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS23091613-08DUP** Units: **pH Units** Analysis Date: **06-Oct-2023 18:36**
 Client ID: **MW-19S** Run ID: **Skalar 03_448461** SeqNo: **7593526** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	10.64	0.100						10.65	0.0939	10
Temp Deg C @pH	19.6	0						19.2	2.06	10

The following samples were analyzed in this batch: HS23091613-05 HS23091613-07 HS23091613-08 HS23091613-09

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448464 (0) Instrument: Skalar 03 Method: PH BY SM4500H+ B-2011

DUP Sample ID: HS23091898-01DUP Units: pH Units Analysis Date: 06-Oct-2023 20:43
Client ID: Run ID: Skalar 03_448464 SeqNo: 7593595 PrepDate: DF: 1
Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	7.18	0.100						7.19	0.139	10
Temp Deg C @pH	19.9	0						19.9	0	10

The following samples were analyzed in this batch: HS23091613-06

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448504 (0) **Instrument:** WetChem_HS **Method:** SPECIFIC CONDUCTANCE BY SM 2510B-2011

MBLK Sample ID: **MBLK-R448504** Units: **umhos/cm @ 25.0 °C** Analysis Date: **09-Oct-2023 12:07**
 Client ID: Run ID: **WetChem_HS_448504** SeqNo: **7594194** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity U 5.00

LCS Sample ID: **LCS-R448504** Units: **umhos/cm @ 25.0 °C** Analysis Date: **09-Oct-2023 12:07**
 Client ID: Run ID: **WetChem_HS_448504** SeqNo: **7594193** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
---------	--------	-----	---------	---------------	------	---------------	---------------	------	-----------	------

Specific Conductivity 1381 5.00 1413 0 97.7 80 - 120

DUP Sample ID: **HS23091613-08DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **09-Oct-2023 12:07**
 Client ID: **MW-19S** Run ID: **WetChem_HS_448504** SeqNo: **7594195** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
---------	--------	-----	---------	---------------	------	---------------	---------------	------	-----------	------

Specific Conductivity 3250 5.00 3210 1.24 20

The following samples were analyzed in this batch:

HS23091613-05	HS23091613-06	HS23091613-07	HS23091613-08
HS23091613-09	HS23091613-10	HS23091613-11	HS23091613-12
HS23091613-13	HS23091613-14		

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448773 (0) **Instrument:** WetChem_HS **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

MBLK	Sample ID: MBLK-R448773	Units: mg/L				Analysis Date: 11-Oct-2023 15:00				
Client ID:		Run ID: WetChem_HS_448773	SeqNo: 7601031	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand U 15.0

LCS	Sample ID: LCS-R448773	Units: mg/L				Analysis Date: 11-Oct-2023 15:00				
Client ID:		Run ID: WetChem_HS_448773	SeqNo: 7601030	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 96 15.0 100 0 96.0 85 - 115

MS	Sample ID: HS23091613-08MS	Units: mg/L				Analysis Date: 11-Oct-2023 15:00				
Client ID: MW-19S		Run ID: WetChem_HS_448773	SeqNo: 7601033	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 76 15.0 50 25 102 80 - 120

MSD	Sample ID: HS23091613-08MSD	Units: mg/L				Analysis Date: 11-Oct-2023 15:00				
Client ID: MW-19S		Run ID: WetChem_HS_448773	SeqNo: 7601032	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 74 15.0 50 25 98.0 80 - 120 76 2.67 20

The following samples were analyzed in this batch:	HS23091613-01	HS23091613-02	HS23091613-03	HS23091613-04
	HS23091613-05	HS23091613-06	HS23091613-07	HS23091613-08
	HS23091613-09	HS23091613-10	HS23091613-11	HS23091613-12
	HS23091613-13	HS23091613-14		

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

QC BATCH REPORT

Batch ID: R448796 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS23091754-01DUP** Units: **pH Units** Analysis Date: **11-Oct-2023 19:06**
 Client ID: Run ID: **Skalar 03_448796** SeqNo: **7601569** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	8.01	0.100						7.92	1.13	10
Temp Deg C @pH	20	0						20	0	10

The following samples were analyzed in this batch: HS23091613-10 HS23091613-11 HS23091613-12 HS23091613-13
 HS23091613-14

Client: Altamira
Project: WFEC / CCR Landfill
WorkOrder: HS23091613

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS23091613

Date/Time Received: 27-Sep-2023 09:10

Client Name: Enviro Clean Services-Tulsa

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	27-Sep-2023 12:14	Reviewed by: /S/ Anna Kinchen	02-Oct-2023 11:37
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.9UC/1.8C	IR31
Cooler(s)/Kit(s):	51603	
Date/Time sample(s) sent to storage:	9/27/23	

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS23091613

Date/Time Received: 27-Sep-2023 09:10

Client Name: Enviro Clean Services-Tulsa

Received by: Corey Grandits

Completed By: /S/ Corey Grandits 28-Sep-2023 11:04 Reviewed by: /S/ Anna Kinchen 02-Oct-2023 11:37
eSignature Date/Time eSignature Date/Time

Matrices: W

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

1 Page(s)

Temperature(s)/Thermometer(s): 3.8UC/3.7C , 2.0UC/1.9C IR31
Cooler(s)/Kit(s): 50645 , 51303
Date/Time sample(s) sent to storage: 9/28/23
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []
pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS23091613

Date/Time Received: 27-Sep-2023 09:10

Client Name: Enviro Clean Services-Tulsa

Received by: Corey Grandits

Completed By: <u>/S/ Corey Grandits</u>	29-Sep-2023 12:09	Reviewed by: <u>/S/ Anna Kinchen</u>	02-Oct-2023 11:37
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 2 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	2.3UC/2.2C , 1.7UC/1.6C	IR31
Cooler(s)/Kit(s):	B Blue , 50980	
Date/Time sample(s) sent to storage:	9/29/23	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS23091613

Date/Time Received: 27-Sep-2023 09:10

Client Name: Enviro Clean Services-Tulsa

Received by: Corey Grandits

Completed By: /S/ Corey Grandits 30-Sep-2023 09:31 Reviewed by: /S/ Anna Kinchen 02-Oct-2023 11:37
 eSignature Date/Time eSignature Date/Time

Matrices: **W**

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 1.0UC/0.9C , 0.7UC/0.6C IR31
 Cooler(s)/Kit(s): 51155 , 50369
 Date/Time sample(s) sent to storage: 9/30/23

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: MW-13 Collection time discrepancy: COC=15:13 Labels=1533


Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY RECORD

		PROJECT NUMBER: WFEE/60023/0007	PROJECT NAME: WFEC - CCR Landfill		COC: 1 of 1																																																																																																																																																																																																																																																																														
		CLIENT CONTACT: Chris Schaefer	CLIENT EMAIL: Chris.Schaefer@altamira-us.com labdata		CLIENT PHONE: 405-255-7538																																																																																																																																																																																																																																																																														
LABORATORY / LAB PM: ALS / Anna Kichus		CLIENT ADDRESS: 525 Central Park Dr Ste 500 OKC, OK 73105		TAT: STD																																																																																																																																																																																																																																																																															
LAB ADDRESS: ALS / Houston		SPECIAL INSTRUCTIONS: Containers 1-120 H2SO4 / 1-500 NP / 2-250-HCl 2-120 HNO3 / 1-500 ZnAc		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="13">PARAMETERS</th> </tr> <tr> <th>NUMBER OF CONTAINERS</th> <th>FIELD FILTERED (YES / NO)</th> <th>App A + App B</th> <th>COD</th> <th>Nitrate as N</th> <th>Spec. Cond.</th> <th>Fe (Total)</th> <th>Ferrous Fe</th> <th>Ferric Fe</th> <th>Disso Wech Fe Mo</th> <th>Dissolved Ferrus</th> <th>K, Mg, Na</th> <th>Sulfide</th> <th>Alkalinity</th> <th>HCO₃, CO₃, Hydroxide</th> <th>HOLD</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>Y</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>7</td> <td>Y</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td colspan="15">* APP A - B, Ca, Cl, F, pH, SO₄, TDS</td> </tr> <tr> <td>9</td> <td colspan="15">* APP B - Sb, As, Ba, Be, Cd, Co, Pb, Li, Hg, Mo, Sn, Th</td> </tr> <tr> <td>10</td> <td colspan="15">Dissolved - Fe, Mo, Ferrus & Ferric are field filtered</td> </tr> <tr> <td>11</td> <td colspan="15">others are not</td> </tr> <tr> <td>12</td> <td colspan="15"></td> </tr> <tr> <td>13</td> <td colspan="15"></td> </tr> <tr> <td>14</td> <td colspan="15"></td> </tr> <tr> <td>15</td> <td colspan="15"></td> </tr> </tbody> </table>			PARAMETERS													NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	App A + App B	COD	Nitrate as N	Spec. Cond.	Fe (Total)	Ferrous Fe	Ferric Fe	Disso Wech Fe Mo	Dissolved Ferrus	K, Mg, Na	Sulfide	Alkalinity	HCO ₃ , CO ₃ , Hydroxide	HOLD	7	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	X	7	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3																4																5																6																7																8	* APP A - B, Ca, Cl, F, pH, SO ₄ , TDS															9	* APP B - Sb, As, Ba, Be, Cd, Co, Pb, Li, Hg, Mo, Sn, Th															10	Dissolved - Fe, Mo, Ferrus & Ferric are field filtered															11	others are not															12																13																14																15															
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HS23091613

Altamira
WFEC / CCR Landfill



SAMPLER(S) NAME: Bradley Van Der Tuin / Tammie Haskie		DATE: 9/26/23	Total # of Containers: 14		SAMPLER(S) SIGNATURE: Bradley Van Der Tuin / Tammie Haskie		DATE: 9/26/23
RELINQUISHED BY: Bradley Van Der Tuin		DATE: 9/26/23	RECEIVED BY: [Signature]	DATE: 9/27/23	LOGGED BY: [Signature]	DATE: 9/27/23	COOLER TEMP:
PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7- 4 Degrees C 8-9035 9-Other :		POINT OF ORIGIN: <input type="checkbox"/> Norman <input checked="" type="checkbox"/> Oklahoma City <input type="checkbox"/> Tulsa <input type="checkbox"/> Yukon <input type="checkbox"/> Midland <input checked="" type="checkbox"/> Other					

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFEE160023/0007

PROJECT NAME:
WFEC - CCR Landfill

COC: _____ of _____

CLIENT CONTACT:
Chris Schaefer

CLIENT EMAIL:
Chris.Schaefer@altamira-us.com
labdata@altamira-us.com

CLIENT PHONE:
405-255-7538

LABORATORY / LAB PM:
ALS - Anna Kinchen

CLIENT ADDRESS:
525 Central Park Dr
Ste 500
OKC, OK 73105

TAT: STD

LAB ADDRESS:
ALS / Houston

SPECIAL INSTRUCTIONS:
Bottles:
1-120 H₂SO₄
1-500 NP
2-120 HNO₃
1-500 NaOH, Zn Ac
2-250 HCl

SHIPMENT METHOD:
Fed Ex

TRACKING:
6862 6796 0692

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.
1	MW-14A	9/26/23	1540	W	
2	MW-16	9/27/23	1205	W	
3	Temp Blank			W	
4					
5					
6					
7					
8					
9					
10					
11					
12	*App A* - Bi, Ca, Cl, F, pH, SO ₄ , TDS				
13	*App B* - Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo				
14	Sn, Th				
15	① samples for dissolved Fe, Mo, Ferrus & Ferric Iron are Field stand, others are not				

NUMBER OF CONTAINERS	PARAMETERS														HOLD
	FIELD FILTERED (YES/NO)	App A & App B	COD	Nitrate as N	Specific Cond	Fe, total	Ferrus Ferric	Dissolved Fe Mo	Dissolved Ferric	K, Mg, Na	Sulfide	Alkalinity	HCO ₃ , CO ₃ , Hydroxide		
7	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	Y	X	X	X	X	X	X	X	X	X	X	X	X		
1	Y														

See special instructions for containers & preservatives

HS23091613

Altamira
WFEC / CCR Landfill



SAMPLER(S) NAME:
Tanner Hoskins

DATE: 9/27/23
TIME: 1400

Total # of Containers:

SAMPLER(S) SIGNATURE:
Tanner Hoskins

DATE: 9/27/23
TIME: 1400

RELINQUISHED BY:
Tanner Hoskins

DATE: 9/27/23
TIME: 1400

RECEIVED BY:

DATE:
TIME:

LOGGED BY: *CS*

DATE: 9/28/23
TIME: 0919

COOLER TEMP:

PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NAOH 5-Na2S2O3 6-NaHSO4 7- 4 Degrees C 8-9035 9-Other :
POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland Other :

ALTAMIRA-US, LLC

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFCR 160023 / 0007

PROJECT NAME:
WFEC CCR Landfill
COC: _____ of _____

CLIENT CONTACT:
Chris Schaefer

CLIENT EMAIL: labdata@altamira-us.com
CLIENT PHONE: 405-255-7538

LABORATORY / LAB PM:
ALS / Anna Kinchen

CLIENT ADDRESS:
525 Central Park Dr
Ste 500 OKC, OK 73105

TAT: STD

LAB ADDRESS:
ALS Houston

SPECIAL INSTRUCTIONS:
copies 1-120 HNO3
1-120 H2SO4 1-500 next

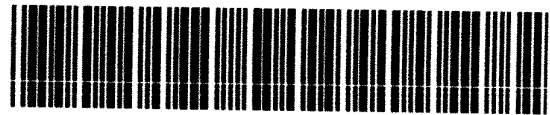
SHIPMENT METHOD: TRACKING:
FedEx 6862 6796 0670 / 6802 6796 0681

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.
1	MW-20	9/28/23	1018	W	
2	MW-3	9/28/23	1011	W	
3	# Dup 2	9/28/23	1018	W	
4	Temp Blank			W	
5					
6					
7					
8	* App A = B, Ca, Cl, F, PH, SO4, TDS				
9					
10	** App B = Sb, As, Ba, Be, Cd, Cr, Co, Pb Li, Hg, Mo, Sn, Th				
11					
12					
13					
14					
15					

NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	PARAMETERS										HOLD
		App A	App B	APP	APP	APP	APP	APP	APP	APP	APP	
3	2	X	X	X	X	X	X	X	X	X	X	
3	2	X	X	X	X	X	X	X	X	X	X	
1	2											

See containers & pre-sending in special instructions


HS23091613
Altamira
WFEC / CCR Landfill




SAMPLER(S) NAME: Brady Walker / Tanner Hoskins DATE: 9/28/23
Total # of Containers: 10 SAMPLER(S) SIGNATURE: [Signature] DATE: 9/28/23

RELINQUISHED BY: [Signature] DATE: 9/28/23 RECEIVED BY: [Signature] DATE: 09292023 LOGGED BY: [Signature] DATE: [] COOLER TEMP: []

PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-4 Degrees C 8-9035 9-Other: []
POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland Other: []

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>GM</i>
	Date: <i>9/19/23</i>	Time: <i>19:00</i>	Date: <i>09/19/23</i>
	Name: <i>Frank</i>	Company: <i>Frank</i>	

51155 SEP 30 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>9/19/23</i>	Time: <i>11:00</i>	Date: <i>09/19/23</i>
	Name: <i>Frank</i>	Company: <i>Frank</i>	



51155

ORIGIN ID:SGRA (405) 255-7538
 ATTN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

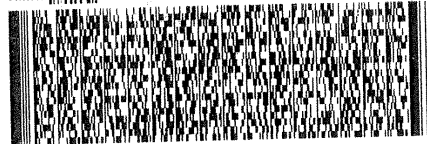
SHIP DATE: 06SEP23
 ACTWGT: 1.00
 CAN:

TO SHIPPING DEPT
 ALS LABORATORY (809)
 10450 STANCLIFF R. (3)
 SUITE 210
 HOUSTON TX 77099

5 12:00
 B 0980
 09.30

(281) 630-5666
 REF: WFEC - CCR - LANDFILL = BO 95300 - AN

RMA: ||| ||| |||



FedEx Express



FedEx


TRK# 6862 6796 0980
 0221

SATURDAY 12:00P
 PRIORITY OVERNIGHT


XO SGRA

77099
 TX-US IAH



 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 9/29/23	Time: 1:30	SM
	Name: [Signature]	Company: [Signature]	Date: 09/30/23

50369 SEP 30 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 9/29/23	Time: 1:30	SM
	Name: [Signature]	Company: [Signature]	Date: 09/30/23



SHORT HOLDING TIME

50369

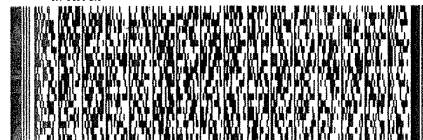
ORIGIN ID: SGRA (405) 255-7538
 ATTN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

SHIP DATE: 06SEP23
 ACTWT: 1.00 LB MAN
 CAD: 0221247/CAFE3751
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5656
 REF: WFEC - CCR - LANDFILL = BO 95300

RMA: ||| ||| |||




FedEx
 TRK# 6862 6796 1037
 0221

SATURDAY 12:00P
 PRIORITY OVERNIGHT


XO SGRA

77099
 TX-US IAH



 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: <u>9/28/23</u>	Time: <u>11:00</u>	<u>SM</u>
	Name: <u>Brad Van Cleave</u>	Company: <u>ALS</u>	Date: <u>09/29/23</u>

B. Brue SEP 29 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: <u>9/28/23</u>	Time: <u>11:00</u>	<u>SM</u>
	Name: <u>Brad Van Cleave</u>	Company: <u>ALS</u>	Date: <u>09/29/23</u>



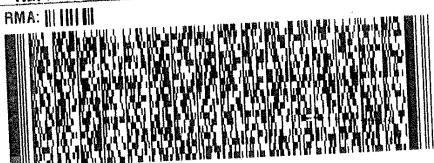
B. Brue

ORIGIN ID: SGRA (405) 255-7538
 ATTN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

SHIP DATE: 06SEP23
 ACTWGT: 1.00 LB MAN
 CAD: 0221247/CAFES3751
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-6666
 REF: WFEC - MNA WELLS = BO 95302 - AK

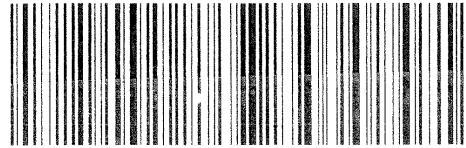



FedEx
 TRK# 6862 6796 0681
 0221

FRI - 29 SEP AA
 PRIORITY OVERNIGHT


43 SGRA

77099
 TX-US
 IAH



 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 9/20/23	Time: 1:40	SN
	Name: <i>Brad Van Cleave</i>		Date: 09/29/23
	Company:		

50980

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 9/20/23	Time: 1:40	SN
	Name: <i>Brad Van Cleave</i>		Date: 09/29/23
	Company:		

50980



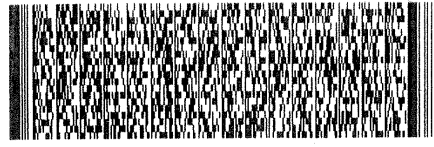
ORIGIN ID:SGRA (405) 255-7538
 ATTN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

SHIP DATE: 06SEP23
 ACTWGT: 1.00 LB MAN
 CAD: 0221247/CAFE3751
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5656
 REF: WFEC - MNA WELLS = BO 95302 - AK

RMA: ||| ||| |||



FedEx

TRK# 0221 6862 6796 0670

FRI - 29 SEP AA
 PRIORITY OVERNIGHT

43 SGRA

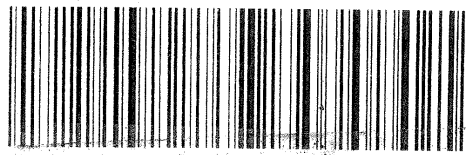
77099
 TX-US
 IAH



ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL
 Date: 9/28/27 Time: 12:00
 Name: [Signature]
 Company: [Signature]
 Seal Broken By: [Signature]
 Date: 9-28

FEDEX
 TRK# 0221 6862 6796 0692
43 SGRA
 THU - 28 SEP AA
 PRIORITY OVERNIGHT
 77099
 TX-US
 IAH



44775871 27Sep/023 SWTA 58104/8835/088

ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Date: 9/28
 Name: [Signature]
 Company: [Signature]

CUSTODY SEAL
 Date: 9/28 Time: 12:00
 Name: [Signature]
 Company: [Signature]
 Seal Broken By: [Signature]
 Date: 9-28

ALS
 10450 Stanciff Rd, Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5666
 Fax. +1 281 530 5887

Date: 9/27
 Name: Turner
 Company: ALS

ALS
 10450 Stanciff Rd, Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5666
 Fax. +1 281 530 5887

CUSTODY SEAL

Time: 1400

Name: Turner
 Company: ALS

Seal Broken By: [Signature]
 Date: 9/27

CUSTODY SEAL

Time: 1400


Name: Turner
 Company: ALS


Seal Broken By: [Signature]
 Date: 9/27

TRK# 6862 6796 1026
 THU - 28 SEP AA
 PRIORITY OVERNIGHT


43 SGRA

77099
 TX-US
 IAH



 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 51603	CUSTODY SEAL		Seal Broken By: SM
	Date: 9/26/23	Time: 1400	Date: 09/27/23
		Name: Tanner Hoskins / Brad VanCleave	
		Company: Altamira	

51603 SEP 27 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 51603	CUSTODY SEAL		Seal Broken By: SM
	Date: 9/26/23	Time: 1400	Date: 09/27/23
		Name: Tanner Hoskins / Brad VanCleave	
		Company: Altamira	



51603

Print # 15808-03-KTM/EXP 01/21 *** 15808/03/2014

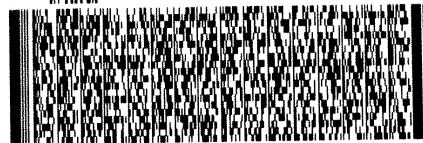
ORIGIN ID:SGRA (405) 255-7538
 ATTN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

SHIP DATE: 06SEP23
 ACTWGT: 1.00 LB MAN
 CAD: 0221247/CAFE3751
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5666
 REF: WFEC - CCR - LANDFILL = BO 95300 - AN

RMA: ||| |||||



FedEx
 TRACKING 6862 6796 1015

WED - 27 SEP AA
 PRIORITY OVERNIGHT

43 SGRA

77099
 TX-US
 IAH



4725071 26Sep2023 SH1A 581C4/8835/C088



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

October 16, 2023

Chris Schaefer
Altamira
525 central park Dr
Suite 500
Oklahoma City, OK 73013

Work Order: **HS23091616**

Laboratory Results for: **WFEC / MNA**

Dear Chris Schaefer,

ALS Environmental received 13 sample(s) on Sep 27, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

Anna Kinchen
Project Manager

Client: Altamira
Project: WFEC / MNA
Work Order: HS23091616

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23091616-01	CM-1A	Water		26-Sep-2023 10:00	27-Sep-2023 09:10	<input type="checkbox"/>
HS23091616-02	CM-1B	Water		26-Sep-2023 11:10	27-Sep-2023 09:10	<input type="checkbox"/>
HS23091616-03	CM-2	Water		26-Sep-2023 12:56	27-Sep-2023 09:10	<input type="checkbox"/>
HS23091616-04	MW-22A	Water		27-Sep-2023 12:01	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-05	MW-22B	Water		27-Sep-2023 11:20	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-06	CM-3A	Water		27-Sep-2023 10:30	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-07	CM-4A	Water		26-Sep-2023 17:45	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-08	CM-4B	Water		26-Sep-2023 17:22	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-09	CM-5A	Water		26-Sep-2023 16:55	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-10	DUP 3	Water		26-Sep-2023 00:00	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-11	CM-5B	Water		27-Sep-2023 13:15	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091616-12	CM-15B	Water		29-Sep-2023 10:49	30-Sep-2023 08:45	<input type="checkbox"/>
HS23091616-13	CM-3B	Water		29-Sep-2023 11:30	30-Sep-2023 08:45	<input type="checkbox"/>

Client: Altamira
Project: WFEC / MNA
Work Order: HS23091616

CASE NARRATIVE

Work Order Comments

- Login Notes:
CM-3B received empty bottles/no volume for Ferrous/Ferric Iron (Total and Dissolved) and sulfide.

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Metals by Method SM3500FED

Batch ID: R448751,R448753,R449205,R447500,R447503,R447658,R447660,R447833,R447834

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 201579

Sample ID: CM-15B (HS23091616-12)

- Sample ran at 2x due to high concentration of Sodium.

Sample ID: CM-3B (HS23091616-13)

- Sample ran at 2x due to high concentration of Sodium.

Sample ID: CM-4B (HS23091616-08)

- Sample ran at 2x due to high concentration of Sodium.

Sample ID: HS23091796-01MS

- MS and MSD are for an unrelated sample

Batch ID: 201563

Sample ID: HS23091613-08MS

- MS/MSD and DUPs are for an unrelated sample

Batch ID: 201615

Sample ID: HS23091613-08MS

- MS and MSD are for an unrelated sample

Wet Chemistry by Method SM4500H+ B

Batch ID: R448461

Sample ID: HS23091613-08DUP

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Altamira
Project: WFEC / MNA
Work Order: HS23091616

CASE NARRATIVE

Wet Chemistry by Method M2540C

Batch ID: R448337

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Wet Chemistry by Method E300

Batch ID: R447536

Sample ID: HS23090943-04MS, HS23091613-02MS

- MS and MSD are for an unrelated sample

Batch ID: R447646

Sample ID: HS23091740-01MS

- MS and MSD are for an unrelated sample

Batch ID: R447844

Sample ID: HS23091613-14MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SM4500 S2-F

Batch ID: R447946,R447979,R448272

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM3500FED

Batch ID: R449162

Sample ID: CM-2 (HS23091616-03)

- Sample extracted outside of the holding time due to laboratory error. Sample results should be considered estimated.

WetChemistry by Method SM4500H+ B

Batch ID: R447857,R447858,R448317,R448461

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R447845,R447849,R447962,R448337

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R447856,R448316,R448460

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Altamira
Project: WFEC / MNA
Work Order: HS23091616

CASE NARRATIVE

WetChemistry by Method M2510 B

Batch ID: R447705,R448504

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method E300

Batch ID: R447646

Sample ID: CM-4B (HS23091616-08)

- Sample originally ran withing holding time at 1X, re-analyzed out of holding time at 50X dilution due to high concentration of NO3.

Sample ID: DUP 3 (HS23091616-10)

- Sample is a blind field DUP. True collection time is not given.

Batch ID: R447536

Sample ID: CM-1B (HS23091616-02)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))
-

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-1A
 Collection Date: 26-Sep-2023 10:00

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.0290	J	0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	0.0270	J	0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Boron	0.686		0.0550	0.100	mg/L	5	10-Oct-2023 14:33
Calcium	496		1.70	25.0	mg/L	50	10-Oct-2023 13:57
Iron	0.0287	J	0.0120	0.200	mg/L	1	09-Oct-2023 21:25
Magnesium	60.0		0.0100	0.200	mg/L	1	09-Oct-2023 21:25
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 21:25
Potassium	8.29		0.0180	0.200	mg/L	1	09-Oct-2023 21:25
Sodium	181		0.700	10.0	mg/L	50	10-Oct-2023 13:57
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	0.0270	J	0.0120	0.200	mg/L	1	09-Oct-2023 22:10
Molybdenum	0.000676	J	0.000600	0.00500	mg/L	1	09-Oct-2023 22:10
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	20.3		0.200	0.500	mg/L	1	27-Sep-2023 15:26
Fluoride	0.336		0.0500	0.100	mg/L	1	27-Sep-2023 15:26
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	27-Sep-2023 15:26
Sulfate	1,990		4.00	10.0	mg/L	20	27-Sep-2023 15:32
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	3,360		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	3,280		5.00	10.0	mg/L	1	29-Sep-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	304		3.50	5.00	mg/L	1	05-Oct-2023 17:52
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 17:52
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 17:52
Alkalinity, Total (As CaCO3)	304		3.50	5.00	mg/L	1	05-Oct-2023 17:52
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AB			
Ferrous Iron	U		0.0200	0.0500	mg/L	1	27-Sep-2023 16:26
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AB			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	27-Sep-2023 16:30
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-1A
 Collection Date: 26-Sep-2023 10:00

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.61	H	0.100	0.100	pH Units	1	05-Oct-2023 17:52
Temp Deg C @pH	21.2	H	0	0	°C	1	05-Oct-2023 17:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-1B
 Collection Date: 26-Sep-2023 11:10

ANALYTICAL REPORT
 WorkOrder:HS23091616
 Lab ID:HS23091616-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.244		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved		U	0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Boron	4.41		1.10	2.00	mg/L	100	10-Oct-2023 14:00
Calcium	129		0.0340	0.500	mg/L	1	09-Oct-2023 21:27
Iron	0.952		0.0120	0.200	mg/L	1	09-Oct-2023 21:27
Magnesium	42.2		0.0100	0.200	mg/L	1	09-Oct-2023 21:27
Molybdenum	0.00500	J	0.000600	0.00500	mg/L	1	09-Oct-2023 21:27
Potassium	12.1		0.0180	0.200	mg/L	1	09-Oct-2023 21:27
Sodium	1,260		1.40	20.0	mg/L	100	10-Oct-2023 14:00
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	0.599		0.0120	0.200	mg/L	1	09-Oct-2023 22:13
Molybdenum	0.00531		0.000600	0.00500	mg/L	1	09-Oct-2023 22:13
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	115		0.400	1.00	mg/L	2	27-Sep-2023 16:06
Fluoride	0.779		0.100	0.200	mg/L	2	27-Sep-2023 16:06
Nitrogen, Nitrate (As N)		U	0.0600	0.200	mg/L	2	27-Sep-2023 16:06
Sulfate	2,580		10.0	25.0	mg/L	50	27-Sep-2023 16:12
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	5,110		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	4,040		5.00	10.0	mg/L	1	29-Sep-2023 13:43
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	325		3.50	5.00	mg/L	1	29-Sep-2023 21:35
Alkalinity, Carbonate (As CaCO3)		U	3.50	5.00	mg/L	1	29-Sep-2023 21:35
Alkalinity, Hydroxide (As CaCO3)		U	3.50	5.00	mg/L	1	29-Sep-2023 21:35
Alkalinity, Total (As CaCO3)	325		3.50	5.00	mg/L	1	29-Sep-2023 21:35
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AB			
Ferrous Iron	0.708		0.0200	0.0500	mg/L	1	27-Sep-2023 16:26
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AB			
Ferrous Iron, Dissolved	0.596		0.0200	0.0500	mg/L	1	27-Sep-2023 16:30
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide		U	1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-1B
 Collection Date: 26-Sep-2023 11:10

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	8.08	H	0.100	0.100	pH Units	1	29-Sep-2023 21:35
Temp Deg C @pH	21.3	H	0	0	°C	1	29-Sep-2023 21:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-2
 Collection Date: 26-Sep-2023 12:56

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.126		0.0200	0.0500	mg/L	1	16-Oct-2023 14:26
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	0.0520		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Boron	0.409		0.0220	0.0400	mg/L	2	10-Oct-2023 14:36
Calcium	378		0.680	10.0	mg/L	20	10-Oct-2023 14:02
Iron	0.126	J	0.0120	0.200	mg/L	1	09-Oct-2023 21:30
Magnesium	16.0		0.0100	0.200	mg/L	1	09-Oct-2023 21:30
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 21:30
Potassium	4.71		0.0180	0.200	mg/L	1	09-Oct-2023 21:30
Sodium	59.2		0.280	4.00	mg/L	20	10-Oct-2023 14:02
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	0.0794	J	0.0120	0.200	mg/L	1	09-Oct-2023 22:15
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 22:15
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	2.09		0.200	0.500	mg/L	1	27-Sep-2023 16:18
Fluoride	0.417		0.0500	0.100	mg/L	1	27-Sep-2023 16:18
Nitrogen, Nitrate (As N)	0.102		0.0300	0.100	mg/L	1	27-Sep-2023 16:18
Sulfate	1,060		4.00	10.0	mg/L	20	27-Sep-2023 16:24
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	2,060		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	1,720		5.00	10.0	mg/L	1	29-Sep-2023 13:43
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	316		3.50	5.00	mg/L	1	29-Sep-2023 21:40
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:40
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:40
Alkalinity, Total (As CaCO3)	316		3.50	5.00	mg/L	1	29-Sep-2023 21:40
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	U	H	0.0200	0.0500	mg/L	1	13-Oct-2023 16:41
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AB			
Ferrous Iron, Dissolved	0.0270	J	0.0200	0.0500	mg/L	1	27-Sep-2023 16:30
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-2
 Collection Date: 26-Sep-2023 12:56

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.74	H	0.100	0.100	pH Units	1	29-Sep-2023 21:40
Temp Deg C @pH	21.1	H	0	0	°C	1	29-Sep-2023 21:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: MW-22A
 Collection Date: 27-Sep-2023 12:01

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.299		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Boron	1.83		0.550	1.00	mg/L	50	10-Oct-2023 14:04
Calcium	529		1.70	25.0	mg/L	50	10-Oct-2023 14:04
Iron	0.299		0.0120	0.200	mg/L	1	09-Oct-2023 21:32
Magnesium	98.8		0.0100	0.200	mg/L	1	09-Oct-2023 21:32
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 21:32
Potassium	16.2		0.0180	0.200	mg/L	1	09-Oct-2023 21:32
Sodium	159		0.700	10.0	mg/L	50	10-Oct-2023 14:04
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:17
Molybdenum	U		0.000600	0.00500	mg/L	1	09-Oct-2023 22:17
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	2.22		0.200	0.500	mg/L	1	28-Sep-2023 13:52
Fluoride	0.270		0.0500	0.100	mg/L	1	28-Sep-2023 13:52
Nitrogen, Nitrate (As N)	0.0626	J	0.0300	0.100	mg/L	1	28-Sep-2023 13:52
Sulfate	2,050		10.0	25.0	mg/L	50	28-Sep-2023 18:54
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	3,300		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	3,180		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	230		3.50	5.00	mg/L	1	29-Sep-2023 21:46
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:46
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	29-Sep-2023 21:46
Alkalinity, Total (As CaCO3)	230		3.50	5.00	mg/L	1	29-Sep-2023 21:46
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	0.0200	J	0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: MW-22A
 Collection Date: 27-Sep-2023 12:01

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.44	H	0.100	0.100	pH Units	1	29-Sep-2023 21:46
Temp Deg C @pH	21.0	H	0	0	°C	1	29-Sep-2023 21:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: MW-22B
 Collection Date: 27-Sep-2023 11:20

ANALYTICAL REPORT
 WorkOrder:HS23091616
 Lab ID:HS23091616-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	0.0850		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved		U	0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 06-Oct-2023	Analyst: MSC
Boron	3.67		1.10	2.00	mg/L	100	10-Oct-2023 14:38
Calcium	107		0.0340	0.500	mg/L	1	09-Oct-2023 21:34
Iron	0.255		0.0120	0.200	mg/L	1	09-Oct-2023 21:34
Magnesium	29.7		0.0100	0.200	mg/L	1	09-Oct-2023 21:34
Molybdenum	0.00280	J	0.000600	0.00500	mg/L	1	09-Oct-2023 21:34
Potassium	9.69		0.0180	0.200	mg/L	1	09-Oct-2023 21:34
Sodium	887		1.40	20.0	mg/L	100	10-Oct-2023 14:38
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 09-Oct-2023	Analyst: MSC
Iron		U	0.0120	0.200	mg/L	1	09-Oct-2023 22:19
Molybdenum	0.00275	J	0.000600	0.00500	mg/L	1	09-Oct-2023 22:19
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: TH
Chloride	53.2		0.200	0.500	mg/L	1	28-Sep-2023 13:58
Fluoride	0.970		0.0500	0.100	mg/L	1	28-Sep-2023 13:58
Nitrogen, Nitrate (As N)	2.92		0.0300	0.100	mg/L	1	28-Sep-2023 13:58
Sulfate	2,190		10.0	25.0	mg/L	50	28-Sep-2023 19:00
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: NC
Specific Conductivity	4,960		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	3,740		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	439		3.50	5.00	mg/L	1	29-Sep-2023 21:52
Alkalinity, Carbonate (As CaCO3)		U	3.50	5.00	mg/L	1	29-Sep-2023 21:52
Alkalinity, Hydroxide (As CaCO3)		U	3.50	5.00	mg/L	1	29-Sep-2023 21:52
Alkalinity, Total (As CaCO3)	439		3.50	5.00	mg/L	1	29-Sep-2023 21:52
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	0.170		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved		U	0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: CD
Sulfide		U	1.70	2.00	mg/L	1	03-Oct-2023 11:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: MW-22B
 Collection Date: 27-Sep-2023 11:20

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.81	H	0.100	0.100	pH Units	1	29-Sep-2023 21:52
Temp Deg C @pH	20.9	H	0	0	°C	1	29-Sep-2023 21:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-3A
 Collection Date: 27-Sep-2023 10:30

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	2.98		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 06-Oct-2023		Analyst: MSC	
Boron	4.16		1.10	2.00	mg/L	100	10-Oct-2023 14:40
Calcium	52.4		0.0340	0.500	mg/L	1	09-Oct-2023 21:36
Iron	4.38		0.0120	0.200	mg/L	1	09-Oct-2023 21:36
Magnesium	10.1		0.0100	0.200	mg/L	1	09-Oct-2023 21:36
Molybdenum	0.00187	J	0.000600	0.00500	mg/L	1	09-Oct-2023 21:36
Potassium	6.03		0.0180	0.200	mg/L	1	09-Oct-2023 21:36
Sodium	564		1.40	20.0	mg/L	100	10-Oct-2023 14:40
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:22
Molybdenum	0.00436	J	0.000600	0.00500	mg/L	1	09-Oct-2023 22:22
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	22.4		0.200	0.500	mg/L	1	28-Sep-2023 14:04
Fluoride	0.664		0.0500	0.100	mg/L	1	28-Sep-2023 14:04
Nitrogen, Nitrate (As N)	27.6		0.300	1.00	mg/L	10	28-Sep-2023 19:52
Sulfate	635		2.00	5.00	mg/L	10	28-Sep-2023 19:52
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	2,590		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	1,820		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	571		3.50	5.00	mg/L	1	06-Oct-2023 18:58
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:58
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 18:58
Alkalinity, Total (As CaCO3)	571		3.50	5.00	mg/L	1	06-Oct-2023 18:58
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	1.40		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-3A
 Collection Date: 27-Sep-2023 10:30

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.89	H	0.100	0.100	pH Units	1	29-Sep-2023 22:39
Temp Deg C @pH	21.3	H	0	0	°C	1	29-Sep-2023 22:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-4A
 Collection Date: 26-Sep-2023 17:45

ANALYTICAL REPORT
 WorkOrder:HS23091616
 Lab ID:HS23091616-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	2.08		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 07-Oct-2023		Analyst: MSC	
Boron	3.03		0.0550	0.100	mg/L	5	10-Oct-2023 00:32
Calcium	27.5		0.170	2.50	mg/L	5	10-Oct-2023 00:32
Iron	2.93		0.0600	1.00	mg/L	5	10-Oct-2023 00:32
Magnesium	6.19		0.0500	1.00	mg/L	5	10-Oct-2023 00:32
Molybdenum	0.00825		0.000600	0.00500	mg/L	1	10-Oct-2023 15:25
Potassium	4.95		0.0900	1.00	mg/L	5	10-Oct-2023 00:32
Sodium	477		0.0700	1.00	mg/L	5	10-Oct-2023 00:32
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:29
Molybdenum	0.0177		0.000600	0.00500	mg/L	1	09-Oct-2023 22:29
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	37.4		0.200	0.500	mg/L	1	28-Sep-2023 13:23
Fluoride	0.942		0.0500	0.100	mg/L	1	28-Sep-2023 13:23
Nitrogen, Nitrate (As N)	4.34		0.0300	0.100	mg/L	1	28-Sep-2023 13:23
Sulfate	525		2.00	5.00	mg/L	10	28-Sep-2023 18:25
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	2,250		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	2,320		5.00	10.0	mg/L	1	29-Sep-2023 13:43
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	572		3.50	5.00	mg/L	1	05-Oct-2023 17:58
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 17:58
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 17:58
Alkalinity, Total (As CaCO3)	572		3.50	5.00	mg/L	1	05-Oct-2023 17:58
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	0.851		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-4A
 Collection Date: 26-Sep-2023 17:45

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: DW		
pH	8.13	H	0.100	0.100	pH Units	1	29-Sep-2023 22:41
Temp Deg C @pH	21.2	H	0	0	°C	1	29-Sep-2023 22:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-4B
 Collection Date: 26-Sep-2023 17:22

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.247		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 07-Oct-2023		Analyst: MSC	
Boron	4.59		0.0550	0.100	mg/L	5	10-Oct-2023 00:34
Calcium	60.8		0.170	2.50	mg/L	5	10-Oct-2023 00:34
Iron	0.247	J	0.0240	0.400	mg/L	2	10-Oct-2023 15:27
Magnesium	18.8		0.0500	1.00	mg/L	5	10-Oct-2023 00:34
Molybdenum	0.0105		0.00120	0.0100	mg/L	2	10-Oct-2023 15:27
Potassium	7.96		0.0900	1.00	mg/L	5	10-Oct-2023 00:34
Sodium	941		0.700	10.0	mg/L	50	10-Oct-2023 13:01
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:31
Molybdenum	0.390		0.000600	0.00500	mg/L	1	09-Oct-2023 22:31
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	89.0		10.0	25.0	mg/L	50	28-Sep-2023 18:31
Fluoride	1.01		0.0500	0.100	mg/L	1	28-Sep-2023 13:29
Nitrogen, Nitrate (As N)	34.5	H	1.50	5.00	mg/L	50	28-Sep-2023 18:31
Sulfate	1,670		10.0	25.0	mg/L	50	28-Sep-2023 18:31
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	4,680		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	3,960		5.00	10.0	mg/L	1	29-Sep-2023 13:43
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	582		3.50	5.00	mg/L	1	05-Oct-2023 18:04
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 18:04
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 18:04
Alkalinity, Total (As CaCO3)	582		3.50	5.00	mg/L	1	05-Oct-2023 18:04
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-4B
 Collection Date: 26-Sep-2023 17:22

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	8.08	H	0.100	0.100	pH Units	1	29-Sep-2023 22:43
Temp Deg C @pH	21.2	H	0	0	°C	1	29-Sep-2023 22:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-5A
 Collection Date: 26-Sep-2023 16:55

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	3.24		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 07-Oct-2023		Analyst: MSC	
Boron	4.63		0.0550	0.100	mg/L	5	10-Oct-2023 00:36
Calcium	71.6		0.170	2.50	mg/L	5	10-Oct-2023 00:36
Iron	4.44		0.0600	1.00	mg/L	5	10-Oct-2023 00:36
Magnesium	17.6		0.0500	1.00	mg/L	5	10-Oct-2023 00:36
Molybdenum	0.00455	J	0.000600	0.00500	mg/L	1	10-Oct-2023 15:30
Potassium	7.68		0.0900	1.00	mg/L	5	10-Oct-2023 00:36
Sodium	643		0.0700	1.00	mg/L	5	10-Oct-2023 00:36
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:33
Molybdenum	0.00755		0.000600	0.00500	mg/L	1	09-Oct-2023 22:33
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	95.4		0.200	0.500	mg/L	1	28-Sep-2023 13:35
Fluoride	0.658		0.0500	0.100	mg/L	1	28-Sep-2023 13:35
Nitrogen, Nitrate (As N)	5.93		0.0300	0.100	mg/L	1	28-Sep-2023 13:35
Sulfate	1,140		10.0	25.0	mg/L	50	28-Sep-2023 18:37
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	3,440		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	2,130		5.00	10.0	mg/L	1	29-Sep-2023 13:43
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	512		3.50	5.00	mg/L	1	05-Oct-2023 18:09
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 18:09
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	05-Oct-2023 18:09
Alkalinity, Total (As CaCO3)	512		3.50	5.00	mg/L	1	05-Oct-2023 18:09
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	1.20		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-5A
 Collection Date: 26-Sep-2023 16:55

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.88	H	0.100	0.100	pH Units	1	29-Sep-2023 22:45
Temp Deg C @pH	21.2	H	0	0	°C	1	29-Sep-2023 22:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: DUP 3
 Collection Date: 26-Sep-2023 00:00

ANALYTICAL REPORT
 WorkOrder:HS23091616
 Lab ID:HS23091616-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	0.113		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved		U	0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 07-Oct-2023		Analyst: MSC	
Boron	2.02		0.0550	0.100	mg/L	5	10-Oct-2023 00:39
Calcium	611		0.170	2.50	mg/L	5	10-Oct-2023 00:39
Iron	0.113	J	0.0120	0.200	mg/L	1	10-Oct-2023 15:32
Magnesium	106		0.0500	1.00	mg/L	5	10-Oct-2023 00:39
Molybdenum		U	0.000600	0.00500	mg/L	1	10-Oct-2023 15:32
Potassium	18.0		0.0900	1.00	mg/L	5	10-Oct-2023 00:39
Sodium	166		0.0700	1.00	mg/L	5	10-Oct-2023 00:39
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	0.0169	J	0.0120	0.200	mg/L	1	09-Oct-2023 22:35
Molybdenum		U	0.000600	0.00500	mg/L	1	09-Oct-2023 22:35
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	2.19		0.200	0.500	mg/L	1	28-Sep-2023 13:41
Fluoride	0.252		0.0500	0.100	mg/L	1	28-Sep-2023 13:41
Nitrogen, Nitrate (As N)	0.0734	JH	0.0300	0.100	mg/L	1	28-Sep-2023 13:41
Sulfate	2,070		10.0	25.0	mg/L	50	28-Sep-2023 18:42
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	3,290		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	3,160		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	233		3.50	5.00	mg/L	1	05-Oct-2023 18:14
Alkalinity, Carbonate (As CaCO3)		U	3.50	5.00	mg/L	1	05-Oct-2023 18:14
Alkalinity, Hydroxide (As CaCO3)		U	3.50	5.00	mg/L	1	05-Oct-2023 18:14
Alkalinity, Total (As CaCO3)	233		3.50	5.00	mg/L	1	05-Oct-2023 18:14
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron		U	0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved		U	0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide		U	1.70	2.00	mg/L	1	03-Oct-2023 07:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: DUP 3
 Collection Date: 26-Sep-2023 00:00

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	7.50	H	0.100	0.100	pH Units	1	29-Sep-2023 22:18
Temp Deg C @pH	21.0	H	0	0	°C	1	29-Sep-2023 22:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-5B
 Collection Date: 27-Sep-2023 13:15

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	2.62		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 07-Oct-2023		Analyst: MSC	
Boron	4.76		0.0550	0.100	mg/L	5	10-Oct-2023 00:41
Calcium	69.9		0.170	2.50	mg/L	5	10-Oct-2023 00:41
Iron	3.17		0.0600	1.00	mg/L	5	10-Oct-2023 00:41
Magnesium	20.4		0.0500	1.00	mg/L	5	10-Oct-2023 00:41
Molybdenum	0.00871		0.000600	0.00500	mg/L	1	10-Oct-2023 15:34
Potassium	8.22		0.0900	1.00	mg/L	5	10-Oct-2023 00:41
Sodium	900		0.0700	1.00	mg/L	5	10-Oct-2023 00:41
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	0.0168	J	0.0120	0.200	mg/L	1	09-Oct-2023 22:38
Molybdenum	0.0124		0.000600	0.00500	mg/L	1	09-Oct-2023 22:38
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	114		4.00	10.0	mg/L	20	28-Sep-2023 19:57
Fluoride	0.904		0.0500	0.100	mg/L	1	28-Sep-2023 14:10
Nitrogen, Nitrate (As N)	91.7		0.600	2.00	mg/L	20	28-Sep-2023 19:57
Sulfate	1,350		4.00	10.0	mg/L	20	28-Sep-2023 19:57
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: NC			
Specific Conductivity	4,550		5.00	5.00	umhos/cm @ 25.0 °C	1	29-Sep-2023 13:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	3,490		5.00	10.0	mg/L	1	02-Oct-2023 13:00
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	586		3.50	5.00	mg/L	1	06-Oct-2023 19:04
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 19:04
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 19:04
Alkalinity, Total (As CaCO3)	586		3.50	5.00	mg/L	1	06-Oct-2023 19:04
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: MZD			
Ferrous Iron	0.545		0.0200	0.0500	mg/L	1	28-Sep-2023 15:14
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: MZD			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Sep-2023 15:32
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	03-Oct-2023 11:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-5B
 Collection Date: 27-Sep-2023 13:15

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: DW			
pH	8.02	H	0.100	0.100	pH Units	1	06-Oct-2023 19:04	
Temp Deg C @pH	19.5	H	0	0	°C	1	06-Oct-2023 19:04	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-15B
 Collection Date: 29-Sep-2023 10:49

ANALYTICAL REPORT
 WorkOrder:HS23091616
 Lab ID:HS23091616-12
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	2.90		0.0200	0.0500	mg/L	1	11-Oct-2023 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	11-Oct-2023 14:41
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 07-Oct-2023		Analyst: MSC	
Boron	4.94		0.0550	0.100	mg/L	5	10-Oct-2023 00:43
Calcium	59.5		0.170	2.50	mg/L	5	10-Oct-2023 00:43
Iron	3.68		0.0600	1.00	mg/L	5	10-Oct-2023 00:43
Magnesium	17.2		0.0500	1.00	mg/L	5	10-Oct-2023 00:43
Molybdenum	U		0.00120	0.0100	mg/L	2	10-Oct-2023 15:36
Potassium	7.68		0.0900	1.00	mg/L	5	10-Oct-2023 00:43
Sodium	1,010		0.700	10.0	mg/L	50	10-Oct-2023 13:03
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 09-Oct-2023		Analyst: MSC	
Iron	U		0.0120	0.200	mg/L	1	09-Oct-2023 22:40
Molybdenum	0.00324	J	0.000600	0.00500	mg/L	1	09-Oct-2023 22:40
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	55.7		0.200	0.500	mg/L	1	30-Sep-2023 11:16
Fluoride	0.790		0.0500	0.100	mg/L	1	30-Sep-2023 11:16
Nitrogen, Nitrate (As N)	24.7		0.600	2.00	mg/L	20	30-Sep-2023 11:22
Sulfate	1,760		4.00	10.0	mg/L	20	30-Sep-2023 11:22
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: CD			
Specific Conductivity	4,800		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	2,700		5.00	10.0	mg/L	1	05-Oct-2023 11:30
ALKALINITY BY -2011		Method:SM2320B		Analyst: DW			
Alkalinity, Bicarbonate (As CaCO3)	652		3.50	5.00	mg/L	1	06-Oct-2023 19:10
Alkalinity, Carbonate (As CaCO3)	10.2		3.50	5.00	mg/L	1	06-Oct-2023 19:10
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 19:10
Alkalinity, Total (As CaCO3)	662		3.50	5.00	mg/L	1	06-Oct-2023 19:10
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AB			
Ferrous Iron	0.771		0.0200	0.0500	mg/L	1	30-Sep-2023 12:41
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AB			
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	30-Sep-2023 12:49
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: CD			
Sulfide	U		1.70	2.00	mg/L	1	05-Oct-2023 14:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-15B
 Collection Date: 29-Sep-2023 10:49

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-12
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: DW
pH	8.33	H	0.100	0.100	pH Units	1	06-Oct-2023 19:10
Temp Deg C @pH	19.2	H	0	0	°C	1	06-Oct-2023 19:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA
 Sample ID: CM-3B
 Collection Date: 29-Sep-2023 11:30

ANALYTICAL REPORT

WorkOrder:HS23091616
 Lab ID:HS23091616-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 07-Oct-2023		Analyst: MSC
Boron	4.87		0.550	1.00	mg/L	50	10-Oct-2023 13:05
Calcium	109		0.170	2.50	mg/L	5	10-Oct-2023 00:45
Iron	25.6		0.0600	1.00	mg/L	5	10-Oct-2023 00:45
Magnesium	18.0		0.0500	1.00	mg/L	5	10-Oct-2023 00:45
Molybdenum	0.00490	J	0.00120	0.0100	mg/L	2	10-Oct-2023 15:39
Potassium	9.29		0.0900	1.00	mg/L	5	10-Oct-2023 00:45
Sodium	989		0.700	10.0	mg/L	50	10-Oct-2023 13:05
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)			Prep:SW3010A / 09-Oct-2023		Analyst: MSC
Iron	0.0169	J	0.0120	0.200	mg/L	1	09-Oct-2023 22:42
Molybdenum	0.0154		0.000600	0.00500	mg/L	1	09-Oct-2023 22:42
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: TH
Chloride	48.7		0.200	0.500	mg/L	1	30-Sep-2023 11:28
Fluoride	1.31		0.0500	0.100	mg/L	1	30-Sep-2023 11:28
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	30-Sep-2023 11:28
Sulfate	1,190		4.00	10.0	mg/L	20	30-Sep-2023 11:34
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: CD
Specific Conductivity	4,340		5.00	5.00	umhos/cm @ 25.0 °C	1	09-Oct-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	2,710		5.00	10.0	mg/L	1	05-Oct-2023 11:30
ALKALINITY BY -2011		Method:SM2320B					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	710		3.50	5.00	mg/L	1	06-Oct-2023 19:17
Alkalinity, Carbonate (As CaCO3)	28.0		3.50	5.00	mg/L	1	06-Oct-2023 19:17
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	06-Oct-2023 19:17
Alkalinity, Total (As CaCO3)	738		3.50	5.00	mg/L	1	06-Oct-2023 19:17
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: DW
pH	8.48	H	0.100	0.100	pH Units	1	06-Oct-2023 19:17
Temp Deg C @pH	18.9	H	0	0	°C	1	06-Oct-2023 19:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

Batch ID: 201563	Start Date: 06 Oct 2023 12:00	End Date: 06 Oct 2023 12:00
Method: WATER - SW3010A	Prep Code: 3010A	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091616-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-06		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 201579	Start Date: 07 Oct 2023 08:00	End Date: 07 Oct 2023 08:00
Method: WATER - SW3010A	Prep Code: 3010A	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091616-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-13		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 201615	Start Date: 09 Oct 2023 08:30	End Date: 09 Oct 2023 08:30
Method: DISS METALS PREP - WATER - SW3010A	Prep Code: 3010A DISS	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091616-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23091616-13		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 201563 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00		06 Oct 2023 12:00	10 Oct 2023 14:33	5
HS23091616-01	CM-1A	26 Sep 2023 10:00		06 Oct 2023 12:00	10 Oct 2023 13:57	50
HS23091616-01	CM-1A	26 Sep 2023 10:00		06 Oct 2023 12:00	09 Oct 2023 21:25	1
HS23091616-02	CM-1B	26 Sep 2023 11:10		06 Oct 2023 12:00	10 Oct 2023 14:00	100
HS23091616-02	CM-1B	26 Sep 2023 11:10		06 Oct 2023 12:00	09 Oct 2023 21:27	1
HS23091616-03	CM-2	26 Sep 2023 12:56		06 Oct 2023 12:00	10 Oct 2023 14:36	2
HS23091616-03	CM-2	26 Sep 2023 12:56		06 Oct 2023 12:00	10 Oct 2023 14:02	20
HS23091616-03	CM-2	26 Sep 2023 12:56		06 Oct 2023 12:00	09 Oct 2023 21:30	1
HS23091616-04	MW-22A	27 Sep 2023 12:01		06 Oct 2023 12:00	10 Oct 2023 14:04	50
HS23091616-04	MW-22A	27 Sep 2023 12:01		06 Oct 2023 12:00	09 Oct 2023 21:32	1
HS23091616-05	MW-22B	27 Sep 2023 11:20		06 Oct 2023 12:00	10 Oct 2023 14:38	100
HS23091616-05	MW-22B	27 Sep 2023 11:20		06 Oct 2023 12:00	09 Oct 2023 21:34	1
HS23091616-06	CM-3A	27 Sep 2023 10:30		06 Oct 2023 12:00	10 Oct 2023 14:40	100
HS23091616-06	CM-3A	27 Sep 2023 10:30		06 Oct 2023 12:00	09 Oct 2023 21:36	1
Batch ID: 201579 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS23091616-07	CM-4A	26 Sep 2023 17:45		07 Oct 2023 08:00	10 Oct 2023 15:25	1
HS23091616-07	CM-4A	26 Sep 2023 17:45		07 Oct 2023 08:00	10 Oct 2023 00:32	5
HS23091616-08	CM-4B	26 Sep 2023 17:22		07 Oct 2023 08:00	10 Oct 2023 15:27	2
HS23091616-08	CM-4B	26 Sep 2023 17:22		07 Oct 2023 08:00	10 Oct 2023 13:01	50
HS23091616-08	CM-4B	26 Sep 2023 17:22		07 Oct 2023 08:00	10 Oct 2023 00:34	5
HS23091616-09	CM-5A	26 Sep 2023 16:55		07 Oct 2023 08:00	10 Oct 2023 15:30	1
HS23091616-09	CM-5A	26 Sep 2023 16:55		07 Oct 2023 08:00	10 Oct 2023 00:36	5
HS23091616-10	DUP 3	26 Sep 2023 00:00		07 Oct 2023 08:00	10 Oct 2023 15:32	1
HS23091616-10	DUP 3	26 Sep 2023 00:00		07 Oct 2023 08:00	10 Oct 2023 00:39	5
HS23091616-11	CM-5B	27 Sep 2023 13:15		07 Oct 2023 08:00	10 Oct 2023 15:34	1
HS23091616-11	CM-5B	27 Sep 2023 13:15		07 Oct 2023 08:00	10 Oct 2023 00:41	5
HS23091616-12	CM-15B	29 Sep 2023 10:49		07 Oct 2023 08:00	10 Oct 2023 15:36	2
HS23091616-12	CM-15B	29 Sep 2023 10:49		07 Oct 2023 08:00	10 Oct 2023 13:03	50
HS23091616-12	CM-15B	29 Sep 2023 10:49		07 Oct 2023 08:00	10 Oct 2023 00:43	5
HS23091616-13	CM-3B	29 Sep 2023 11:30		07 Oct 2023 08:00	10 Oct 2023 15:39	2
HS23091616-13	CM-3B	29 Sep 2023 11:30		07 Oct 2023 08:00	10 Oct 2023 13:05	50
HS23091616-13	CM-3B	29 Sep 2023 11:30		07 Oct 2023 08:00	10 Oct 2023 00:45	5

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 201615 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00		09 Oct 2023 08:30	09 Oct 2023 22:10	1
HS23091616-02	CM-1B	26 Sep 2023 11:10		09 Oct 2023 08:30	09 Oct 2023 22:13	1
HS23091616-03	CM-2	26 Sep 2023 12:56		09 Oct 2023 08:30	09 Oct 2023 22:15	1
HS23091616-04	MW-22A	27 Sep 2023 12:01		09 Oct 2023 08:30	09 Oct 2023 22:17	1
HS23091616-05	MW-22B	27 Sep 2023 11:20		09 Oct 2023 08:30	09 Oct 2023 22:19	1
HS23091616-06	CM-3A	27 Sep 2023 10:30		09 Oct 2023 08:30	09 Oct 2023 22:22	1
HS23091616-07	CM-4A	26 Sep 2023 17:45		09 Oct 2023 08:30	09 Oct 2023 22:29	1
HS23091616-08	CM-4B	26 Sep 2023 17:22		09 Oct 2023 08:30	09 Oct 2023 22:31	1
HS23091616-09	CM-5A	26 Sep 2023 16:55		09 Oct 2023 08:30	09 Oct 2023 22:33	1
HS23091616-10	DUP 3	26 Sep 2023 00:00		09 Oct 2023 08:30	09 Oct 2023 22:35	1
HS23091616-11	CM-5B	27 Sep 2023 13:15		09 Oct 2023 08:30	09 Oct 2023 22:38	1
HS23091616-12	CM-15B	29 Sep 2023 10:49		09 Oct 2023 08:30	09 Oct 2023 22:40	1
HS23091616-13	CM-3B	29 Sep 2023 11:30		09 Oct 2023 08:30	09 Oct 2023 22:42	1
Batch ID: R447500 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			27 Sep 2023 16:26	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			27 Sep 2023 16:26	1
Batch ID: R447503 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			27 Sep 2023 16:30	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			27 Sep 2023 16:30	1
HS23091616-03	CM-2	26 Sep 2023 12:56			27 Sep 2023 16:30	1
Batch ID: R447536 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			27 Sep 2023 15:32	20
HS23091616-01	CM-1A	26 Sep 2023 10:00			27 Sep 2023 15:26	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			27 Sep 2023 16:12	50
HS23091616-02	CM-1B	26 Sep 2023 11:10			27 Sep 2023 16:06	2
HS23091616-03	CM-2	26 Sep 2023 12:56			27 Sep 2023 16:24	20
HS23091616-03	CM-2	26 Sep 2023 12:56			27 Sep 2023 16:18	1

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R447646 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091616-04	MW-22A	27 Sep 2023 12:01			28 Sep 2023 18:54	50
HS23091616-04	MW-22A	27 Sep 2023 12:01			28 Sep 2023 13:52	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			28 Sep 2023 19:00	50
HS23091616-05	MW-22B	27 Sep 2023 11:20			28 Sep 2023 13:58	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			28 Sep 2023 19:52	10
HS23091616-06	CM-3A	27 Sep 2023 10:30			28 Sep 2023 14:04	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			28 Sep 2023 18:25	10
HS23091616-07	CM-4A	26 Sep 2023 17:45			28 Sep 2023 13:23	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			28 Sep 2023 18:31	50
HS23091616-08	CM-4B	26 Sep 2023 17:22			28 Sep 2023 13:29	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			28 Sep 2023 18:37	50
HS23091616-09	CM-5A	26 Sep 2023 16:55			28 Sep 2023 13:35	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			28 Sep 2023 18:42	50
HS23091616-10	DUP 3	26 Sep 2023 00:00			28 Sep 2023 13:41	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			28 Sep 2023 19:57	20
HS23091616-11	CM-5B	27 Sep 2023 13:15			28 Sep 2023 14:10	1
Batch ID: R447658 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS23091616-04	MW-22A	27 Sep 2023 12:01			28 Sep 2023 15:32	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			28 Sep 2023 15:32	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			28 Sep 2023 15:32	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			28 Sep 2023 15:32	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			28 Sep 2023 15:32	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			28 Sep 2023 15:32	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			28 Sep 2023 15:32	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			28 Sep 2023 15:32	1
Batch ID: R447660 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091616-04	MW-22A	27 Sep 2023 12:01			28 Sep 2023 15:14	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			28 Sep 2023 15:14	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			28 Sep 2023 15:14	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			28 Sep 2023 15:14	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			28 Sep 2023 15:14	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			28 Sep 2023 15:14	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			28 Sep 2023 15:14	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			28 Sep 2023 15:14	1

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R447705 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			29 Sep 2023 13:07	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			29 Sep 2023 13:07	1
HS23091616-03	CM-2	26 Sep 2023 12:56			29 Sep 2023 13:07	1
HS23091616-04	MW-22A	27 Sep 2023 12:01			29 Sep 2023 13:07	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			29 Sep 2023 13:07	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			29 Sep 2023 13:07	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			29 Sep 2023 13:07	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			29 Sep 2023 13:07	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			29 Sep 2023 13:07	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			29 Sep 2023 13:07	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			29 Sep 2023 13:07	1
Batch ID: R447833 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091616-12	CM-15B	29 Sep 2023 10:49			30 Sep 2023 12:41	1
Batch ID: R447834 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS23091616-12	CM-15B	29 Sep 2023 10:49			30 Sep 2023 12:49	1
Batch ID: R447844 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23091616-12	CM-15B	29 Sep 2023 10:49			30 Sep 2023 11:22	20
HS23091616-12	CM-15B	29 Sep 2023 10:49			30 Sep 2023 11:16	1
HS23091616-13	CM-3B	29 Sep 2023 11:30			30 Sep 2023 11:34	20
HS23091616-13	CM-3B	29 Sep 2023 11:30			30 Sep 2023 11:28	1
Batch ID: R447845 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			29 Sep 2023 13:00	1
Batch ID: R447849 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091616-02	CM-1B	26 Sep 2023 11:10			29 Sep 2023 13:43	1
HS23091616-03	CM-2	26 Sep 2023 12:56			29 Sep 2023 13:43	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			29 Sep 2023 13:43	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			29 Sep 2023 13:43	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			29 Sep 2023 13:43	1
Batch ID: R447856 (0)		Test Name : ALKALINITY BY -2011			Matrix: Water	
HS23091616-02	CM-1B	26 Sep 2023 11:10			29 Sep 2023 21:35	1
HS23091616-03	CM-2	26 Sep 2023 12:56			29 Sep 2023 21:40	1
HS23091616-04	MW-22A	27 Sep 2023 12:01			29 Sep 2023 21:46	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			29 Sep 2023 21:52	1

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R447857 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091616-02	CM-1B	26 Sep 2023 11:10			29 Sep 2023 21:35	1
HS23091616-03	CM-2	26 Sep 2023 12:56			29 Sep 2023 21:40	1
HS23091616-04	MW-22A	27 Sep 2023 12:01			29 Sep 2023 21:46	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			29 Sep 2023 21:52	1
Batch ID: R447858 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091616-06	CM-3A	27 Sep 2023 10:30			29 Sep 2023 22:39	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			29 Sep 2023 22:41	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			29 Sep 2023 22:43	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			29 Sep 2023 22:45	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			29 Sep 2023 22:18	1
Batch ID: R447946 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			03 Oct 2023 07:36	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			03 Oct 2023 07:36	1
HS23091616-03	CM-2	26 Sep 2023 12:56			03 Oct 2023 07:36	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			03 Oct 2023 07:36	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			03 Oct 2023 07:36	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			03 Oct 2023 07:36	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			03 Oct 2023 07:36	1
Batch ID: R447962 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091616-04	MW-22A	27 Sep 2023 12:01			02 Oct 2023 13:00	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			02 Oct 2023 13:00	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			02 Oct 2023 13:00	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			02 Oct 2023 13:00	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			02 Oct 2023 13:00	1
Batch ID: R447979 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS23091616-04	MW-22A	27 Sep 2023 12:01			03 Oct 2023 11:13	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			03 Oct 2023 11:13	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			03 Oct 2023 11:13	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			03 Oct 2023 11:13	1
Batch ID: R448272 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS23091616-12	CM-15B	29 Sep 2023 10:49			05 Oct 2023 14:30	1
Batch ID: R448316 (0)		Test Name : ALKALINITY BY -2011			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			05 Oct 2023 17:52	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			05 Oct 2023 17:58	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			05 Oct 2023 18:04	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			05 Oct 2023 18:09	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			05 Oct 2023 18:14	1

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R448317 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			05 Oct 2023 17:52	1
Batch ID: R448337 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23091616-12	CM-15B	29 Sep 2023 10:49			05 Oct 2023 11:30	1
HS23091616-13	CM-3B	29 Sep 2023 11:30			05 Oct 2023 11:30	1
Batch ID: R448460 (0)		Test Name : ALKALINITY BY -2011			Matrix: Water	
HS23091616-06	CM-3A	27 Sep 2023 10:30			06 Oct 2023 18:58	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			06 Oct 2023 19:04	1
HS23091616-12	CM-15B	29 Sep 2023 10:49			06 Oct 2023 19:10	1
HS23091616-13	CM-3B	29 Sep 2023 11:30			06 Oct 2023 19:17	1
Batch ID: R448461 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS23091616-11	CM-5B	27 Sep 2023 13:15			06 Oct 2023 19:04	1
HS23091616-12	CM-15B	29 Sep 2023 10:49			06 Oct 2023 19:10	1
HS23091616-13	CM-3B	29 Sep 2023 11:30			06 Oct 2023 19:17	1
Batch ID: R448504 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS23091616-12	CM-15B	29 Sep 2023 10:49			09 Oct 2023 12:07	1
HS23091616-13	CM-3B	29 Sep 2023 11:30			09 Oct 2023 12:07	1
Batch ID: R448751 (0)		Test Name : FERRIC IRON - BY CALCULATION BY SM3500FED			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			11 Oct 2023 14:36	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			11 Oct 2023 14:36	1
HS23091616-04	MW-22A	27 Sep 2023 12:01			11 Oct 2023 14:36	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			11 Oct 2023 14:36	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			11 Oct 2023 14:36	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			11 Oct 2023 14:36	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			11 Oct 2023 14:36	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			11 Oct 2023 14:36	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			11 Oct 2023 14:36	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			11 Oct 2023 14:36	1
HS23091616-12	CM-15B	29 Sep 2023 10:49			11 Oct 2023 14:36	1

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R448753 (0)		Test Name : FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED			Matrix: Water	
HS23091616-01	CM-1A	26 Sep 2023 10:00			11 Oct 2023 14:41	1
HS23091616-02	CM-1B	26 Sep 2023 11:10			11 Oct 2023 14:41	1
HS23091616-03	CM-2	26 Sep 2023 12:56			11 Oct 2023 14:41	1
HS23091616-04	MW-22A	27 Sep 2023 12:01			11 Oct 2023 14:41	1
HS23091616-05	MW-22B	27 Sep 2023 11:20			11 Oct 2023 14:41	1
HS23091616-06	CM-3A	27 Sep 2023 10:30			11 Oct 2023 14:41	1
HS23091616-07	CM-4A	26 Sep 2023 17:45			11 Oct 2023 14:41	1
HS23091616-08	CM-4B	26 Sep 2023 17:22			11 Oct 2023 14:41	1
HS23091616-09	CM-5A	26 Sep 2023 16:55			11 Oct 2023 14:41	1
HS23091616-10	DUP 3	26 Sep 2023 00:00			11 Oct 2023 14:41	1
HS23091616-11	CM-5B	27 Sep 2023 13:15			11 Oct 2023 14:41	1
HS23091616-12	CM-15B	29 Sep 2023 10:49			11 Oct 2023 14:41	1
Batch ID: R449162 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS23091616-03	CM-2	26 Sep 2023 12:56			13 Oct 2023 16:41	1
Batch ID: R449205 (0)		Test Name : FERRIC IRON - BY CALCULATION BY SM3500FED			Matrix: Water	
HS23091616-03	CM-2	26 Sep 2023 12:56			16 Oct 2023 14:26	1

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201563 (0)	Instrument: ICPMS07	Method: ICP-MS METALS BY SW6020A
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MBLK		Sample ID: MBLK-201563			Units: mg/L		Analysis Date: 09-Oct-2023 12:17			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7594221		PrepDate: 06-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	U	0.0200								
Calcium	U	0.500								
Iron	U	0.200								
Magnesium	0.015	0.200								J
Molybdenum	U	0.00500								
Potassium	U	0.200								
Sodium	U	0.200								

LCS		Sample ID: LCS-201563			Units: mg/L		Analysis Date: 09-Oct-2023 12:20			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7594222		PrepDate: 06-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4647	0.0200	0.5	0	92.9	80 - 120				
Calcium	5.016	0.500	5	0	100	80 - 120				
Iron	4.984	0.200	5	0	99.7	80 - 120				
Magnesium	4.876	0.200	5	0	97.5	80 - 120				
Molybdenum	0.04754	0.00500	0.05	0	95.1	80 - 120				
Potassium	5.009	0.200	5	0	100	80 - 120				
Sodium	4.985	0.200	5	0	99.7	80 - 120				

MS		Sample ID: HS23091613-08MS			Units: mg/L		Analysis Date: 09-Oct-2023 18:56			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595697		PrepDate: 06-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	8.733	0.0200	0.5	7.862	174	80 - 120				SEO
Calcium	47.73	0.500	5	41.67	121	80 - 120				SO
Iron	5.533	0.200	5	0.03221	110	80 - 120				
Magnesium	5.68	0.200	5	0.08917	112	80 - 120				
Molybdenum	0.5056	0.00500	0.05	0.4502	111	80 - 120				O
Potassium	44.24	0.200	5	37.15	142	80 - 120				SO
Sodium	715.7	0.200	5	686.1	591	80 - 120				SEO

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201563 (0)		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
MSD		Sample ID: HS23091613-08MSD		Units: mg/L		Analysis Date: 09-Oct-2023 18:58				
Client ID:		Run ID: ICPMS07_448499		SeqNo: 7595698		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	8.666	0.0200	0.5	7.862	161	80 - 120	8.733	0.761	20	SEO
Calcium	46.77	0.500	5	41.67	102	80 - 120	47.73	2.04	20	O
Iron	5.408	0.200	5	0.03221	108	80 - 120	5.533	2.3	20	
Magnesium	5.493	0.200	5	0.08917	108	80 - 120	5.68	3.35	20	
Molybdenum	0.5041	0.00500	0.05	0.4502	108	80 - 120	0.5056	0.299	20	O
Potassium	43.3	0.200	5	37.15	123	80 - 120	44.24	2.15	20	SO
Sodium	696.3	0.200	5	686.1	204	80 - 120	715.7	2.74	20	SEO
PDS		Sample ID: HS23091613-08PDS		Units: mg/L		Analysis Date: 10-Oct-2023 13:26				
Client ID:		Run ID: ICPMS07_448603		SeqNo: 7597390		PrepDate: 06-Oct-2023		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	57.05	2.00	50	9.511	95.1	75 - 125				
PDS		Sample ID: HS23091613-08PDS		Units: mg/L		Analysis Date: 09-Oct-2023 19:00				
Client ID:		Run ID: ICPMS07_448499		SeqNo: 7595699		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	50.84	0.500	10	41.67	91.7	75 - 125				O
Iron	10.69	0.200	10	0.03221	107	75 - 125				
Magnesium	10.82	0.200	10	0.08917	107	75 - 125				
Molybdenum	0.5378	0.00500	0.1	0.4502	87.6	75 - 125				O
Potassium	47.63	0.200	10	37.15	105	75 - 125				
PDS		Sample ID: HS23091613-08PDS		Units: mg/L		Analysis Date: 10-Oct-2023 14:07				
Client ID:		Run ID: ICPMS07_448603		SeqNo: 7597432		PrepDate: 06-Oct-2023		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1715	20.0	1000	829.8	88.5	75 - 125				

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201563 (0) **Instrument:** ICPMS07 **Method:** ICP-MS METALS BY SW6020A

SD		Sample ID: HS23091613-08SD		Units: mg/L		Analysis Date: 10-Oct-2023 13:23				
Client ID:		Run ID: ICPMS07_448603		SeqNo: 7597389		PrepDate: 06-Oct-2023		DF: 500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Boron	10.78	10.0					9.511	0	10	
Sodium	828.5	100					829.8	0.147	10	

SD		Sample ID: HS23091613-08SD		Units: mg/L		Analysis Date: 09-Oct-2023 18:53				
Client ID:		Run ID: ICPMS07_448499		SeqNo: 7595696		PrepDate: 06-Oct-2023		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Calcium	35.4	2.50					41.67	15	10	R
Iron	U	1.00					0.03221	0	10	
Magnesium	0.08654	1.00					0.08917	0	10	J
Molybdenum	0.3628	0.0250					0.4502	19.4	10	R
Potassium	33.99	1.00					37.15	8.53	10	

The following samples were analyzed in this batch:

HS23091616-01	HS23091616-02	HS23091616-03	HS23091616-04
HS23091616-05	HS23091616-06		

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201579 (0)		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-201579	Units: mg/L			Analysis Date: 10-Oct-2023 11:59					
Client ID:	Run ID: ICPMS07_448603	SeqNo: 7597182		PrepDate: 07-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	U	0.0200								
Calcium	U	0.500								
Iron	0.02209	0.200							J	
Magnesium	0.02156	0.200							J	
Molybdenum	U	0.00500								
Potassium	0.0223	0.200							J	
Sodium	0.02424	0.200							J	
LCS	Sample ID: LCS-201579	Units: mg/L			Analysis Date: 09-Oct-2023 19:26					
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595707		PrepDate: 07-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.5508	0.0200	0.5	0	110	80 - 120				
Calcium	5.519	0.500	5	0	110	80 - 120				
Iron	5.431	0.200	5	0	109	80 - 120				
Magnesium	5.604	0.200	5	0	112	80 - 120				
Molybdenum	0.04817	0.00500	0.05	0	96.3	80 - 120				
Potassium	5.633	0.200	5	0	113	80 - 120				
LCS	Sample ID: LCS-201579	Units: mg/L			Analysis Date: 10-Oct-2023 12:17					
Client ID:	Run ID: ICPMS07_448603	SeqNo: 7597185		PrepDate: 07-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sodium	5.21	0.200	5	0	104	80 - 120				

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201579 (0)	Instrument: ICPMS07	Method: ICP-MS METALS BY SW6020A
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MS		Sample ID: HS23091796-01MS			Units: mg/L		Analysis Date: 09-Oct-2023 22:56			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7596176		PrepDate: 07-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	1.182	0.0200	0.5	0.597	117	80 - 120				E
Calcium	150.7	0.500	5	141.1	191	80 - 120				SO
Iron	5.586	0.200	5	0.1696	108	80 - 120				
Magnesium	84.01	0.200	5	76.39	152	80 - 120				SO
Molybdenum	0.05382	0.00500	0.05	0.001907	104	80 - 120				
Potassium	6.665	0.200	5	1.054	112	80 - 120				
Sodium	457.9	0.200	5	438.1	396	80 - 120				SEO

MSD		Sample ID: HS23091796-01MSD			Units: mg/L		Analysis Date: 09-Oct-2023 22:58			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7596177		PrepDate: 07-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	1.226	0.0200	0.5	0.597	126	80 - 120	1.182	3.63	20	SE
Calcium	152.6	0.500	5	141.1	230	80 - 120	150.7	1.29	20	SO
Iron	5.679	0.200	5	0.1696	110	80 - 120	5.586	1.64	20	
Magnesium	84.99	0.200	5	76.39	172	80 - 120	84.01	1.17	20	SO
Molybdenum	0.05399	0.00500	0.05	0.001907	104	80 - 120	0.05382	0.317	20	
Potassium	6.748	0.200	5	1.054	114	80 - 120	6.665	1.25	20	
Sodium	462.9	0.200	5	438.1	497	80 - 120	457.9	1.1	20	SEO

PDS		Sample ID: HS23091796-01PDS			Units: mg/L		Analysis Date: 10-Oct-2023 12:59			
Client ID:		Run ID: ICPMS07_448603			SeqNo: 7597402		PrepDate: 07-Oct-2023		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	26.17	1.00	25	0.5682	102	75 - 125				
Sodium	937.4	10.0	500	428	102	75 - 125				

PDS		Sample ID: HS23091796-01PDS			Units: mg/L		Analysis Date: 09-Oct-2023 23:00			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7596178		PrepDate: 07-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	151.1	0.500	10	141.1	99.4	75 - 125				O
Magnesium	87.82	0.200	10	76.39	114	75 - 125				O

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201579 (0)		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
SD	Sample ID: HS23091796-01SD	Units: mg/L		Analysis Date: 10-Oct-2023 12:56						
Client ID:	Run ID: ICPMS07_448603	SeqNo: 7597401	PrepDate: 07-Oct-2023	DF: 250						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Boron	U	5.00					0.5682	0	10	
Sodium	441	50.0					428	3.03	10	

SD	Sample ID: HS23091796-01SD	Units: mg/L		Analysis Date: 09-Oct-2023 22:53						
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7596175	PrepDate: 07-Oct-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Calcium	132.3	2.50					141.1	6.23	10	
Iron	0.1781	1.00					0.1696	0	10	J
Magnesium	76.77	1.00					76.39	0.494	10	
Molybdenum	U	0.0250					0.001907	0	10	
Potassium	1.005	1.00					1.054	4.68	10	

The following samples were analyzed in this batch:

HS23091616-07	HS23091616-08	HS23091616-09	HS23091616-10
HS23091616-11	HS23091616-12	HS23091616-13	

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201615 (0)		Instrument: ICPMS07			Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLK-201615	Units: mg/L			Analysis Date: 09-Oct-2023 19:24					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595708		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.200								
Molybdenum	U	0.00500								
LCS	Sample ID: LCS-201615	Units: mg/L			Analysis Date: 09-Oct-2023 19:31					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595709		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.305	0.200	5	0	106	80 - 120				
Molybdenum	0.04858	0.00500	0.05	0	97.2	80 - 120				
MS	Sample ID: HS23091613-08MS	Units: mg/L			Analysis Date: 09-Oct-2023 21:50					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7596123		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.864	0.200	5	0.005204	97.2	75 - 125				
Molybdenum	0.4344	0.00500	0.05	0.4166	35.5	75 - 125				SO
MSD	Sample ID: HS23091613-08MSD	Units: mg/L			Analysis Date: 09-Oct-2023 21:52					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7596124		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.801	0.200	5	0.005204	95.9	75 - 125	4.864	1.3	20	
Molybdenum	0.4362	0.00500	0.05	0.4166	39.3	75 - 125	0.4344	0.43	20	SO
PDS	Sample ID: HS23091613-08PDS	Units: mg/L			Analysis Date: 09-Oct-2023 21:55					
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7596125		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	11.83	0.200	10	0.005204	118	75 - 125				
Molybdenum	0.5089	0.00500	0.1	0.4166	92.3	75 - 125				O

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: 201615 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
SD	Sample ID: HS23091613-08SD	Units: mg/L		Analysis Date: 09-Oct-2023 21:48					
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7596122		PrepDate: 09-Oct-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Iron	U	1.00					0.005204	0	10
Molybdenum	0.4076	0.0250					0.4166	2.16	10

The following samples were analyzed in this batch:

HS23091616-01	HS23091616-02	HS23091616-03	HS23091616-04
HS23091616-05	HS23091616-06	HS23091616-07	HS23091616-08
HS23091616-09	HS23091616-10	HS23091616-11	HS23091616-12
HS23091616-13			

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447500 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R447500	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID:	Run ID: UV-2450_447500	SeqNo: 7568434		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R447500	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID:	Run ID: UV-2450_447500	SeqNo: 7568433		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.283 0.0500 0.25 0 113 80 - 120

MS	Sample ID: HS23091613-02MS	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID:	Run ID: UV-2450_447500	SeqNo: 7568436		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.281 0.0500 0.25 -0.023 122 75 - 125

MSD	Sample ID: HS23091613-02MSD	Units: mg/L		Analysis Date: 27-Sep-2023 16:26					
Client ID:	Run ID: UV-2450_447500	SeqNo: 7568435		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.272 0.0500 0.25 -0.023 118 75 - 125 0.281 3.25 20

The following samples were analyzed in this batch: HS23091616-01 HS23091616-02

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447503 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R447503	Units: mg/L		Analysis Date: 27-Sep-2023 16:30					
Client ID:	Run ID: UV-2450_447503	SeqNo: 7568447		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R447503		Units: mg/L		Analysis Date: 27-Sep-2023 16:30			
Client ID:	Run ID: UV-2450_447503	SeqNo: 7568446		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.269 0.0500 0.25 0 108 80 - 120

MS		Sample ID: HS23091616-01MS		Units: mg/L		Analysis Date: 27-Sep-2023 16:30			
Client ID: CM-1A	Run ID: UV-2450_447503	SeqNo: 7568449		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.258 0.0500 0.25 -0.005 105 80 - 120

MSD		Sample ID: HS23091616-01MSD		Units: mg/L		Analysis Date: 27-Sep-2023 16:30			
Client ID: CM-1A	Run ID: UV-2450_447503	SeqNo: 7568448		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.259 0.0500 0.25 -0.005 106 80 - 120 0.258 0.387 20

The following samples were analyzed in this batch: HS23091616-01 HS23091616-02 HS23091616-03

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447536 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK		Sample ID: MBLK		Units: mg/L		Analysis Date: 27-Sep-2023 14:34			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569632		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
Fluoride	U	0.100							
Nitrogen, Nitrate (As N)	U	0.100							
Sulfate	U	0.500							

LCS		Sample ID: LCS		Units: mg/L		Analysis Date: 27-Sep-2023 14:45			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569633		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.38	0.500	20	0	102	90 - 110			
Fluoride	3.862	0.100	4	0	96.6	90 - 110			
Nitrogen, Nitrate (As N)	3.858	0.100	4	0	96.4	90 - 110			
Sulfate	20.01	0.500	20	0	100	90 - 110			

MS		Sample ID: HS23091613-02MS		Units: mg/L		Analysis Date: 27-Sep-2023 15:09			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569637		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	33.85	0.500	10	24.75	91.0	80 - 120			
Fluoride	3.162	0.100	2	1.201	98.1	80 - 120			
Nitrogen, Nitrate (As N)	2.181	0.100	2	0.3101	93.5	80 - 120			
Sulfate	503.4	0.500	10	509.6	-62.2	80 - 120			SEO

MS		Sample ID: HS23090943-04MS		Units: mg/L		Analysis Date: 27-Sep-2023 16:52			
Client ID:		Run ID: ICS-Integrion_447536		SeqNo: 7569652		PrepDate:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	688.8	5.00	100	624.6	64.1	80 - 120			SO
Fluoride	20.8	1.00	20	2.895	89.6	80 - 120			
Nitrogen, Nitrate (As N)	18.97	1.00	20	0	94.8	80 - 120			
Sulfate	344.2	5.00	100	280	64.1	80 - 120			S

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447536 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MSD	Sample ID: HS23091613-02MSD	Units: mg/L			Analysis Date: 27-Sep-2023 15:14				
Client ID:	Run ID: ICS-Integrion_447536	SeqNo: 7569638		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	33.96	0.500	10	24.75	92.1	80 - 120	33.85	0.327	20
Fluoride	3.173	0.100	2	1.201	98.6	80 - 120	3.162	0.338	20
Nitrogen, Nitrate (As N)	2.186	0.100	2	0.3101	93.8	80 - 120	2.181	0.266	20
Sulfate	503.8	0.500	10	509.6	-58.8	80 - 120	503.4	0.0674	20 SEO

MSD	Sample ID: HS23090943-04MSD	Units: mg/L			Analysis Date: 27-Sep-2023 16:58				
Client ID:	Run ID: ICS-Integrion_447536	SeqNo: 7569653		PrepDate:			DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	689.7	5.00	100	624.6	65.1	80 - 120	688.8	0.141	20 SO
Fluoride	20.9	1.00	20	2.895	90.0	80 - 120	20.8	0.47	20
Nitrogen, Nitrate (As N)	18.99	1.00	20	0	95.0	80 - 120	18.97	0.116	20
Sulfate	345.7	5.00	100	280	65.6	80 - 120	344.2	0.439	20 S

The following samples were analyzed in this batch:

HS23091616-01	HS23091616-02	HS23091616-03
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Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447646 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 28-Sep-2023 16:59					
Client ID:	Run ID: ICS-Integrion_447646	SeqNo: 7572462	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Sulfate	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 28-Sep-2023 17:16					
Client ID:	Run ID: ICS-Integrion_447646	SeqNo: 7572463	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	20.07	0.500	20	0	100	90 - 110				
Fluoride	3.69	0.100	4	0	92.2	90 - 110				
Nitrogen, Nitrate (As N)	3.784	0.100	4	0	94.6	90 - 110				
Nitrogen, Nitrite (As N)	3.998	0.100	4	0	99.9	90 - 110				
Sulfate	18.79	0.500	20	0	94.0	90 - 110				
MS	Sample ID: HS23091740-01MS	Units: mg/L			Analysis Date: 28-Sep-2023 17:28					
Client ID:	Run ID: ICS-Integrion_447646	SeqNo: 7572465	PrepDate:	DF: 2						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	1632	1.00	20	1693	-309	80 - 120			SEO	
Fluoride	4.061	0.200	4	0.5628	87.5	80 - 120				
Nitrogen, Nitrate (As N)	3.642	0.200	4	0.1182	88.1	80 - 120				
Nitrogen, Nitrite (As N)	1.679	0.200	4	0	42.0	80 - 120			S	
Sulfate	501.9	1.00	20	491.5	52.4	80 - 120			SEO	

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447646 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MS		Sample ID: HS23091616-07MSD		Units: mg/L		Analysis Date: 28-Sep-2023 19:05			
Client ID: CM-4A		Run ID: ICS-Integrion_447646		SeqNo: 7572478		PrepDate:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	134.8	5.00	100	32.7	102	80 - 120			
Fluoride	19.2	1.00	20	1.258	89.7	80 - 120			
Nitrogen, Nitrate (As N)	22.82	1.00	20	4.019	94.0	80 - 120			
Nitrogen, Nitrite (As N)	19.46	1.00	20	0	97.3	80 - 120			
Sulfate	634.1	5.00	100	525.1	109	80 - 120			O

MSD		Sample ID: HS23091740-01MSD		Units: mg/L		Analysis Date: 28-Sep-2023 17:33			
Client ID:		Run ID: ICS-Integrion_447646		SeqNo: 7572466		PrepDate:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	1628	1.00	20	1693	-325	80 - 120	1632	0.196	20 SEO
Fluoride	4.219	0.200	4	0.5628	91.4	80 - 120	4.061	3.82	20
Nitrogen, Nitrate (As N)	3.615	0.200	4	0.1182	87.4	80 - 120	3.642	0.722	20
Nitrogen, Nitrite (As N)	1.672	0.200	4	0	41.8	80 - 120	1.679	0.466	20 S
Sulfate	502	1.00	20	491.5	52.5	80 - 120	501.9	0.00311	20 SEO

MSD		Sample ID: HS23091616-07MSD		Units: mg/L		Analysis Date: 28-Sep-2023 19:11			
Client ID: CM-4A		Run ID: ICS-Integrion_447646		SeqNo: 7572479		PrepDate:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	134.2	5.00	100	32.7	101	80 - 120	134.8	0.461	20
Fluoride	19.25	1.00	20	1.258	90.0	80 - 120	19.2	0.26	20
Nitrogen, Nitrate (As N)	22.73	1.00	20	4.019	93.5	80 - 120	22.82	0.417	20
Nitrogen, Nitrite (As N)	19.34	1.00	20	0	96.7	80 - 120	19.46	0.608	20
Sulfate	631	5.00	100	525.1	106	80 - 120	634.1	0.489	20 O

The following samples were analyzed in this batch:

HS23091616-04	HS23091616-05	HS23091616-06	HS23091616-07
HS23091616-08	HS23091616-09	HS23091616-10	HS23091616-11

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447658 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R447658	Units: mg/L			Analysis Date: 28-Sep-2023 15:32				
Client ID:	Run ID: UV-2450_447658	SeqNo: 7573214		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R447658		Units: mg/L		Analysis Date: 28-Sep-2023 15:32			
Client ID:	Run ID: UV-2450_447658	SeqNo: 7573213		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.252 0.0500 0.25 0 101 80 - 120

MS		Sample ID: HS23091616-11MS		Units: mg/L		Analysis Date: 28-Sep-2023 15:32			
Client ID: CM-5B	Run ID: UV-2450_447658	SeqNo: 7573216		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.24 0.0500 0.25 0.015 90.0 80 - 120

MSD		Sample ID: HS23091616-11MSD		Units: mg/L		Analysis Date: 28-Sep-2023 15:32			
Client ID: CM-5B	Run ID: UV-2450_447658	SeqNo: 7573215		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.239 0.0500 0.25 0.015 89.6 80 - 120 0.24 0.418 20

The following samples were analyzed in this batch:	HS23091616-04	HS23091616-05	HS23091616-06	HS23091616-07
	HS23091616-08	HS23091616-09	HS23091616-10	HS23091616-11

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447660 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R447660	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID:	Run ID: UV-2450_447660	SeqNo: 7573261		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R447660	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID:	Run ID: UV-2450_447660	SeqNo: 7573260		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.248 0.0500 0.25 0 99.2 80 - 120

MS	Sample ID: HS23091616-10MS	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID: DUP 3	Run ID: UV-2450_447660	SeqNo: 7573263		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.242 0.0500 0.25 0.014 91.2 75 - 125

MSD	Sample ID: HS23091616-10MSD	Units: mg/L		Analysis Date: 28-Sep-2023 15:14					
Client ID: DUP 3	Run ID: UV-2450_447660	SeqNo: 7573262		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.244 0.0500 0.25 0.014 92.0 75 - 125 0.242 0.823 20

The following samples were analyzed in this batch:	HS23091616-04	HS23091616-05	HS23091616-06	HS23091616-07
	HS23091616-08	HS23091616-09	HS23091616-10	HS23091616-11

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447705 (0) **Instrument:** WetChem_HS **Method:** SPECIFIC CONDUCTANCE BY SM 2510B-2011

MBLK Sample ID: **MBLK-R447705** Units: **umhos/cm @ 25.0 °C** Analysis Date: **29-Sep-2023 13:07**
 Client ID: Run ID: **WetChem_HS_447705** SeqNo: **7574077** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity U 5.00

LCS Sample ID: **LCS-R447705** Units: **umhos/cm @ 25.0 °C** Analysis Date: **29-Sep-2023 13:07**
 Client ID: Run ID: **WetChem_HS_447705** SeqNo: **7574076** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity 1381 5.00 1413 0 97.7 80 - 120

DUP Sample ID: **HS23091744-01DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **29-Sep-2023 13:07**
 Client ID: Run ID: **WetChem_HS_447705** SeqNo: **7574073** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity 2452 5.00 2457 0.204 20

The following samples were analyzed in this batch:

HS23091616-01	HS23091616-02	HS23091616-03	HS23091616-04
HS23091616-05	HS23091616-06	HS23091616-07	HS23091616-08
HS23091616-09	HS23091616-10	HS23091616-11	

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447833 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R447833	Units: mg/L		Analysis Date: 30-Sep-2023 12:41					
Client ID:		Run ID: UV-2450_447833		SeqNo: 7577191		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ferrous Iron	U	0.0500				80 - 120			
LCS	Sample ID: LCS-R447833	Units: mg/L		Analysis Date: 30-Sep-2023 12:41					
Client ID:		Run ID: UV-2450_447833		SeqNo: 7577190		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ferrous Iron	0.233	0.0500	0.25	0	93.2	80 - 120			
MS	Sample ID: HS23091616-12MS	Units: mg/L		Analysis Date: 30-Sep-2023 12:41					
Client ID: CM-15B		Run ID: UV-2450_447833		SeqNo: 7577193		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ferrous Iron	1.003	0.0500	0.25	0.771	92.8	75 - 125			
MSD	Sample ID: HS23091616-12MSD	Units: mg/L		Analysis Date: 30-Sep-2023 12:41					
Client ID: CM-15B		Run ID: UV-2450_447833		SeqNo: 7577192		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ferrous Iron	1.03	0.0500	0.25	0.771	104	75 - 125	1.003	2.66	20

The following samples were analyzed in this batch: HS23091616-12

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447834 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R447834	Units: mg/L		Analysis Date: 30-Sep-2023 12:49					
Client ID:	Run ID: UV-2450_447834	SeqNo: 7577225		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R447834		Units: mg/L		Analysis Date: 30-Sep-2023 12:49			
Client ID:	Run ID: UV-2450_447834	SeqNo: 7577224		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.229 0.0500 0.25 0 91.6 80 - 120

MS		Sample ID: HS23091616-12MS		Units: mg/L		Analysis Date: 30-Sep-2023 12:49			
Client ID: CM-15B	Run ID: UV-2450_447834	SeqNo: 7577227		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.246 0.0500 0.25 -0.011 103 80 - 120

MSD		Sample ID: HS23091616-12MSD		Units: mg/L		Analysis Date: 30-Sep-2023 12:49			
Client ID: CM-15B	Run ID: UV-2450_447834	SeqNo: 7577226		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron, Dissolved 0.252 0.0500 0.25 -0.011 105 80 - 120 0.246 2.41 20

The following samples were analyzed in this batch: HS23091616-12

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447844 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 30-Sep-2023 12:20					
Client ID:		Run ID: ICS-Integrion_447844	SeqNo: 7577600	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Sulfate	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 30-Sep-2023 12:32					
Client ID:		Run ID: ICS-Integrion_447844	SeqNo: 7577601	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	20.12	0.500	20	0	101	90 - 110				
Fluoride	3.83	0.100	4	0	95.7	90 - 110				
Nitrogen, Nitrate (As N)	3.778	0.100	4	0	94.5	90 - 110				
Nitrogen, Nitrite (As N)	3.988	0.100	4	0	99.7	90 - 110				
Sulfate	19.4	0.500	20	0	97.0	90 - 110				
MS	Sample ID: HS23091835-21MS	Units: mg/L			Analysis Date: 30-Sep-2023 16:11					
Client ID:		Run ID: ICS-Integrion_447844	SeqNo: 7577607	PrepDate:	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	73.59	2.50	50	22.44	102	80 - 120				
Fluoride	9.881	0.500	10	0.826	90.6	80 - 120				
Nitrogen, Nitrate (As N)	18.06	0.500	10	8.887	91.8	80 - 120				
Nitrogen, Nitrite (As N)	9.628	0.500	10	0.3165	93.1	80 - 120				
Sulfate	764.4	2.50	50	714.6	99.6	80 - 120			EO	

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447844 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MS		Sample ID: HS23091613-14MS		Units: mg/L		Analysis Date: 30-Sep-2023 10:48				
Client ID:		Run ID: ICS-Integrion_447844		SeqNo: 7577589		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	29.47	0.500	10	19.74	97.4	80 - 120				
Fluoride	2.307	0.100	2	0.4142	94.6	80 - 120				
Nitrogen, Nitrate (As N)	1.89	0.100	2	0.0853	90.2	80 - 120				
Nitrogen, Nitrite (As N)	0.6723	0.100	2	0	33.6	80 - 120			S	
Sulfate	1411	0.500	10	1440	-285	80 - 120			SEO	
MSD		Sample ID: HS23091835-21MSD		Units: mg/L		Analysis Date: 30-Sep-2023 16:17				
Client ID:		Run ID: ICS-Integrion_447844		SeqNo: 7577608		PrepDate:		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	73.1	2.50	50	22.44	101	80 - 120	73.59	0.675	20	
Fluoride	9.597	0.500	10	0.826	87.7	80 - 120	9.881	2.92	20	
Nitrogen, Nitrate (As N)	18.01	0.500	10	8.887	91.2	80 - 120	18.06	0.299	20	
Nitrogen, Nitrite (As N)	9.558	0.500	10	0.3165	92.4	80 - 120	9.628	0.724	20	
Sulfate	759.3	2.50	50	714.6	89.3	80 - 120	764.4	0.674	20 EO	
MSD		Sample ID: HS23091613-14MSD		Units: mg/L		Analysis Date: 30-Sep-2023 10:53				
Client ID:		Run ID: ICS-Integrion_447844		SeqNo: 7577590		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	29.58	0.500	10	19.74	98.4	80 - 120	29.47	0.352	20	
Fluoride	2.393	0.100	2	0.4142	98.9	80 - 120	2.307	3.66	20	
Nitrogen, Nitrate (As N)	1.915	0.100	2	0.0853	91.5	80 - 120	1.89	1.34	20	
Nitrogen, Nitrite (As N)	0.6707	0.100	2	0	33.5	80 - 120	0.6723	0.238	20 S	
Sulfate	1413	0.500	10	1440	-272	80 - 120	1411	0.092	20 SEO	

The following samples were analyzed in this batch: HS23091616-12 HS23091616-13

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447845 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-09292023	Units: mg/L		Analysis Date: 29-Sep-2023 13:00						
Client ID:	Run ID: Balance1_447845	SeqNo: 7577645		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-09292023	Units: mg/L		Analysis Date: 29-Sep-2023 13:00						
Client ID:	Run ID: Balance1_447845	SeqNo: 7577644		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1008	10.0	1000	0	101	85 - 115			
DUP	Sample ID: HS23091713-05DUP	Units: mg/L		Analysis Date: 29-Sep-2023 13:00						
Client ID:	Run ID: Balance1_447845	SeqNo: 7577634		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		30	10.0				30	0	20	
DUP	Sample ID: HS23091613-02DUP	Units: mg/L		Analysis Date: 29-Sep-2023 13:00						
Client ID:	Run ID: Balance1_447845	SeqNo: 7577624		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		952	10.0				956	0.419	20	

The following samples were analyzed in this batch: HS23091616-01

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447849 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011					
MBLK	Sample ID: WMBLK-09292023	Units: mg/L		Analysis Date: 29-Sep-2023 13:43					
Client ID:	Run ID: Balance1_447849	SeqNo: 7577731		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-09292023	Units: mg/L		Analysis Date: 29-Sep-2023 13:43					
Client ID:	Run ID: Balance1_447849	SeqNo: 7577730		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1080 10.0 1000 0 108 85 - 115

DUP	Sample ID: HS23091616-02DUP	Units: mg/L		Analysis Date: 29-Sep-2023 13:43					
Client ID: CM-1B	Run ID: Balance1_447849	SeqNo: 7577725		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 4030 10.0 4040 0.248 20

The following samples were analyzed in this batch: HS23091616-02 HS23091616-03 HS23091616-07 HS23091616-08
 HS23091616-09

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447856 (0)	Instrument: Skalar 03	Method: ALKALINITY BY -2011
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MBLK	Sample ID: MBLK-09292023	Units: mg/L	Analysis Date: 29-Sep-2023 19:18							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577947	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS	Sample ID: LCS-09292023	Units: mg/L	Analysis Date: 29-Sep-2023 19:24							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577948	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	897.2	5.00	1000	0	89.7	85 - 115				
Alkalinity, Total (As CaCO3)	934.5	5.00	1000	0	93.4	85 - 115				

LCSD	Sample ID: LCSD-09292023	Units: mg/L	Analysis Date: 29-Sep-2023 19:31							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577949	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	895	5.00	1000	0	89.5	85 - 115	897.2	0.246	20	
Alkalinity, Total (As CaCO3)	934.3	5.00	1000	0	93.4	85 - 115	934.5	0.0214	20	

DUP	Sample ID: HS23091538-02DUP	Units: mg/L	Analysis Date: 29-Sep-2023 19:41							
Client ID:	Run ID: Skalar 03_447856	SeqNo: 7577951	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	57.3	5.00					57.1	0.35	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	57.3	5.00					57.1	0.35	20	

The following samples were analyzed in this batch:

HS23091616-02	HS23091616-03	HS23091616-04	HS23091616-05
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Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447857 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP	Sample ID: HS23091538-02DUP	Units: pH Units		Analysis Date: 29-Sep-2023 19:41						
Client ID:	Run ID: Skalar 03_447857	SeqNo: 7577983		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.6	0.100					7.58	0.264	10	
Temp Deg C @pH	20.3	0					20.4	0.491	10	

The following samples were analyzed in this batch: HS23091616-02 HS23091616-03 HS23091616-04 HS23091616-05

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447858 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS23091645-01DUP** Units: **pH Units** Analysis Date: **29-Sep-2023 22:09**
 Client ID: Run ID: **Skalar 03_447858** SeqNo: **7578002** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	10	0.100						10.01	0.1	10
Temp Deg C @pH	21.3	0						21.2	0.471	10

The following samples were analyzed in this batch: HS23091616-06 HS23091616-07 HS23091616-08 HS23091616-09
 HS23091616-10

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447946 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F-2011

MBLK Sample ID: **MBLK-R447946** Units: **mg/L** Analysis Date: **03-Oct-2023 07:36**
 Client ID: Run ID: **WetChem_HS_447946** SeqNo: **7579972** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide U 2.00

LCS Sample ID: **LCS-R447946** Units: **mg/L** Analysis Date: **03-Oct-2023 07:36**
 Client ID: Run ID: **WetChem_HS_447946** SeqNo: **7579971** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.08 2.00 25 0 88.3 85 - 115

LCSD Sample ID: **LCSD-R447946** Units: **mg/L** Analysis Date: **03-Oct-2023 07:36**
 Client ID: Run ID: **WetChem_HS_447946** SeqNo: **7579970** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 0 87.5 85 - 115 22.08 0.91 20

MS Sample ID: **HS23091616-01MS** Units: **mg/L** Analysis Date: **03-Oct-2023 07:36**
 Client ID: **CM-1A** Run ID: **WetChem_HS_447946** SeqNo: **7579973** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.08 2.00 25 -1.52 94.4 80 - 120

The following samples were analyzed in this batch: HS23091616-01 HS23091616-02 HS23091616-03 HS23091616-07
 HS23091616-08 HS23091616-09 HS23091616-10

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447962 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WMBLK-10022023	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580686		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-10022023	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580685		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1016 10.0 1000 0 102 85 - 115

DUP	Sample ID: HS23091796-02DUP	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580680		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 840 10.0 840 0 20

DUP	Sample ID: HS23091613-08DUP	Units: mg/L			Analysis Date: 02-Oct-2023 13:00				
Client ID:	Run ID: Balance1_447962	SeqNo: 7580668		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 2240 10.0 2250 0.445 20

The following samples were analyzed in this batch: HS23091616-04 HS23091616-05 HS23091616-06 HS23091616-10
 HS23091616-11

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R447979 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F-2011

MBLK Sample ID: **MBLK-R447979** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580934** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide U 2.00

LCS Sample ID: **LCS-R447979** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580933** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.08 2.00 25 0 88.3 85 - 115

LCSD Sample ID: **LCSD-R447979** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580932** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 0 87.5 85 - 115 22.08 0.91 20

MS Sample ID: **HS23091613-08MS** Units: **mg/L** Analysis Date: **03-Oct-2023 11:13**
 Client ID: Run ID: **WetChem_HS_447979** SeqNo: **7580935** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 -3.32 101 80 - 120

The following samples were analyzed in this batch: HS23091616-04 HS23091616-05 HS23091616-06 HS23091616-11

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448272 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F-2011

MBLK Sample ID: **MBLK-R448272** Units: **mg/L** Analysis Date: **05-Oct-2023 14:30**
 Client ID: Run ID: **WetChem_HS_448272** SeqNo: **7588054** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide U 2.00

LCS Sample ID: **LCS-R448272** Units: **mg/L** Analysis Date: **05-Oct-2023 14:30**
 Client ID: Run ID: **WetChem_HS_448272** SeqNo: **7588053** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 0 87.5 85 - 115

LCSD Sample ID: **LCSD-R448272** Units: **mg/L** Analysis Date: **05-Oct-2023 14:30**
 Client ID: Run ID: **WetChem_HS_448272** SeqNo: **7588052** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.08 2.00 25 0 88.3 85 - 115 21.88 0.91 20

MS Sample ID: **HS23100272-04MS** Units: **mg/L** Analysis Date: **05-Oct-2023 14:30**
 Client ID: Run ID: **WetChem_HS_448272** SeqNo: **7588055** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 21.88 2.00 25 -2.12 96.0 80 - 120

The following samples were analyzed in this batch: HS23091616-12

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448316 (0)	Instrument: Skalar 03	Method: ALKALINITY BY -2011
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MBLK	Sample ID: MBLK-10052023	Units: mg/L	Analysis Date: 05-Oct-2023 16:43							
Client ID:	Run ID: Skalar 03_448316	SeqNo: 7589595	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS	Sample ID: LCS-10052023	Units: mg/L	Analysis Date: 05-Oct-2023 16:49							
Client ID:	Run ID: Skalar 03_448316	SeqNo: 7589596	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	922.4	5.00	1000	0	92.2	85 - 115				
Alkalinity, Total (As CaCO3)	924.1	5.00	1000	0	92.4	85 - 115				

LCSD	Sample ID: LCSD-10052023	Units: mg/L	Analysis Date: 05-Oct-2023 16:55							
Client ID:	Run ID: Skalar 03_448316	SeqNo: 7589597	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	921.4	5.00	1000	0	92.1	85 - 115	922.4	0.108	20	
Alkalinity, Total (As CaCO3)	925.6	5.00	1000	0	92.6	85 - 115	924.1	0.162	20	

DUP	Sample ID: HS23091585-01DUP	Units: mg/L	Analysis Date: 05-Oct-2023 17:05							
Client ID:	Run ID: Skalar 03_448316	SeqNo: 7589599	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	46.9	5.00					47.7	1.69	20	
Alkalinity, Carbonate (As CaCO3)	82.2	5.00					81.4	0.978	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	129.1	5.00					129.1	0	20	

The following samples were analyzed in this batch: HS23091616-01 HS23091616-07 HS23091616-08 HS23091616-09
 HS23091616-10

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448317 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP	Sample ID: HS23091913-01DUP	Units: pH Units		Analysis Date: 05-Oct-2023 18:29						
Client ID:	Run ID: Skalar 03_448317	SeqNo: 7589620		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.15	0.100					8.09	0.739	10	
Temp Deg C @pH	21.1	0					21.2	0.473	10	

The following samples were analyzed in this batch: HS23091616-01

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448337 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-10052023	Units: mg/L		Analysis Date: 05-Oct-2023 11:30						
Client ID:	Run ID: Balance1_448337	SeqNo: 7590008		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-10052023	Units: mg/L		Analysis Date: 05-Oct-2023 11:30						
Client ID:	Run ID: Balance1_448337	SeqNo: 7590007		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1054	10.0	1000	0	105	85 - 115			
DUP	Sample ID: HS23091910-01DUP	Units: mg/L		Analysis Date: 05-Oct-2023 11:30						
Client ID:	Run ID: Balance1_448337	SeqNo: 7590001		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		608	10.0				608	0 20		
DUP	Sample ID: HS23091898-07DUP	Units: mg/L		Analysis Date: 05-Oct-2023 11:30						
Client ID:	Run ID: Balance1_448337	SeqNo: 7589991		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		2400	10.0				2404	0.167 20		

The following samples were analyzed in this batch: HS23091616-12 HS23091616-13

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448460 (0)	Instrument: Skalar 03	Method: ALKALINITY BY -2011
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MBLK	Sample ID: MBLK-10062023	Units: mg/L	Analysis Date: 06-Oct-2023 17:52							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593492	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS	Sample ID: LCS-10062023	Units: mg/L	Analysis Date: 06-Oct-2023 17:58							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593493	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	933.4	5.00	1000	0	93.3	85 - 115				
Alkalinity, Total (As CaCO3)	938	5.00	1000	0	93.8	85 - 115				

LCSD	Sample ID: LCSD-10062023	Units: mg/L	Analysis Date: 06-Oct-2023 18:04							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593494	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	937	5.00	1000	0	93.7	85 - 115	933.4	0.385	20	
Alkalinity, Total (As CaCO3)	942.1	5.00	1000	0	94.2	85 - 115	938	0.436	20	

DUP	Sample ID: HS23091613-08DUP	Units: mg/L	Analysis Date: 06-Oct-2023 18:36							
Client ID:	Run ID: Skalar 03_448460	SeqNo: 7593500	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Carbonate (As CaCO3)	52.6	5.00					53	0.758	20	
Alkalinity, Hydroxide (As CaCO3)	63.8	5.00					63.2	0.945	20	
Alkalinity, Total (As CaCO3)	116.4	5.00					116.2	0.172	20	

The following samples were analyzed in this batch: HS23091616-06 HS23091616-11 HS23091616-12 HS23091616-13

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448461 (0) Instrument: Skalar 03 Method: PH BY SM4500H+ B-2011

DUP Sample ID: HS23091613-08DUP Units: pH Units Analysis Date: 06-Oct-2023 18:36
Client ID: Run ID: Skalar 03_448461 SeqNo: 7593526 PrepDate: DF: 1
Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	10.64	0.100						10.65	0.0939	10
Temp Deg C @pH	19.6	0						19.2	2.06	10

The following samples were analyzed in this batch: HS23091616-11 HS23091616-12 HS23091616-13

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R448504 (0)		Instrument: WetChem_HS		Method: SPECIFIC CONDUCTANCE BY SM 2510B-2011						
MBLK	Sample ID: MBLK-R448504	Units: umhos/cm @ 25.0 °C		Analysis Date: 09-Oct-2023 12:07						
Client ID:	Run ID: WetChem_HS_448504	SeqNo: 7594194		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductivity	U	5.00								
LCS	Sample ID: LCS-R448504	Units: umhos/cm @ 25.0 °C		Analysis Date: 09-Oct-2023 12:07						
Client ID:	Run ID: WetChem_HS_448504	SeqNo: 7594193		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductivity	1381	5.00	1413	0	97.7	80 - 120				
DUP	Sample ID: HS23091613-08DUP	Units: umhos/cm @ 25.0 °C		Analysis Date: 09-Oct-2023 12:07						
Client ID:	Run ID: WetChem_HS_448504	SeqNo: 7594195		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductivity	3250	5.00					3210	1.24	20	

The following samples were analyzed in this batch: HS23091616-12 HS23091616-13

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

QC BATCH REPORT

Batch ID: R449162 (0) **Instrument:** UV-2450 **Method:** FERROUS IRON BY SM3500 FE B

MBLK	Sample ID: MBLK-R449162	Units: mg/L			Analysis Date: 13-Oct-2023 16:41				
Client ID:		Run ID: UV-2450_449162		SeqNo: 7610628	PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R449162	Units: mg/L			Analysis Date: 13-Oct-2023 16:41				
Client ID:		Run ID: UV-2450_449162		SeqNo: 7610627	PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron 0.286 0.0500 0.25 0 114 80 - 120

MS	Sample ID: HS23091616-03MS	Units: mg/L			Analysis Date: 13-Oct-2023 16:41				
Client ID: CM-2		Run ID: UV-2450_449162		SeqNo: 7610630	PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron 0.278 0.0500 0.25 0.005 109 75 - 125

MSD	Sample ID: HS23091616-03MSD	Units: mg/L			Analysis Date: 13-Oct-2023 16:41				
Client ID: CM-2		Run ID: UV-2450_449162		SeqNo: 7610629	PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron 0.279 0.0500 0.25 0.005 110 75 - 125 0.278 0.359 20

The following samples were analyzed in this batch: HS23091616-03

Client: Altamira
Project: WFEC / MNA
WorkOrder: HS23091616

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS23091616

Date/Time Received: 27-Sep-2023 09:10

Client Name: Enviro Clean Services-Tulsa

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	27-Sep-2023 12:28	Reviewed by: /S/ Anna Kinchen	02-Oct-2023 12:00
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.9UC/1.8C	IR31
Cooler(s)/Kit(s):	51603	
Date/Time sample(s) sent to storage:	9/27/23	

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS23091616

Date/Time Received: **27-Sep-2023 09:10**

Client Name: Enviro Clean Services-Tulsa

Received by: **Corey Grandits**

Completed By: /S/ Corey Grandits 28-Sep-2023 11:25 eSignature Date/Time
 Reviewed by: /S/ Anna Kinchen 02-Oct-2023 12:00 eSignature Date/Time

Matrices: **W**

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

3.8UC/3.7C , 2.0UC/1.9C	IR31
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Cooler(s)/Kit(s):

50645 , 51303

Date/Time sample(s) sent to storage:

9/28/23

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

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Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

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Corrective Action:

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Sample Receipt Checklist

Work Order ID: HS23091616

Date/Time Received: 27-Sep-2023 09:10

Client Name: Enviro Clean Services-Tulsa

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	30-Sep-2023 09:26	Reviewed by: /S/ Anna Kinchen	02-Oct-2023 12:00
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.0UC/0.9C	IR31
Cooler(s)/Kit(s):	51155	
Date/Time sample(s) sent to storage:	9/30/23	

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: **CM-3B received empty bottles/no volume for Ferrous Iron (Total and Dissolved) and sulfide.**

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFEG 160023 / 0009

PROJECT NAME:
WFEC / MNA Monitoring

COC: 1 of _____

CLIENT CONTACT: Chms Schaefer

CLIENT EMAIL:
Chms.Schaefer@altamira-us.com
labdata@altamira-us.com

CLIENT PHONE:
405-255-7538

LABORATORY / LAB PM:
ALS / Anna Kitchen

CLIENT ADDRESS: 525 Central PK Dr
Ste 500
OKC, OK 73105

TAT: STD

LAB ADDRESS:
ALS / Houston

SPECIAL INSTRUCTIONS: Containers
2-120 HNO3 / 1-500 NP
2-250 HCl / 1-500 NaOH ZnAc

SHIPMENT METHOD:
FedEx

TRACKING:
686267961015

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.	PARAMETERS													HOLD	
						NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	App A	Nitrate as N	Spec. Card.	Fe & Mo (total)	Fe (Ferric + Ferrous)	Dissolved Mo	Dissolved Ferric	K, Na, Mg	Sulfide	A/Alkalinity	HCO ₃ , CO ₃ , Hydroxide		
1	CM-1A	9/26/23	1000	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	X	
2	CM-1B	9/26/23	1110			6	Y	X	X	X	X	X	X	X	X	X	X	X	X	
3	CM-2	9/26/23	1256			6	Y	X	X	X	X	X	X	X	X	X	X	X	X	
4	Temp Blank					1	-													
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

* App A - Bi Car Cl
Fi PH Sulfide

size & preservative listed in Special Instructions

Dissolved - Fe, Mo, Ferric & Ferrous are field filtered, others are not

HS23091616

Altamira
WFEC / MNA




SAMPLER(S) NAME: *Bridget VanCleave / Fanner* DATE: 9/26/23 TIME: 1400
 Total # of Containers: 19 SAMPLER(S) SIGNATURE: *Bridget VanCleave* DATE: 9/26/23 TIME: 1400

RELINQUISHED BY: *Bridget VanCleave* DATE: 9/26/23 TIME: 1400
 RECEIVED BY: *CC* DATE: 9/27/23 TIME: 0900
 LOGGED BY: _____ DATE: _____ TIME: _____
 COOLER TEMP: _____

PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-4 Degrees C 8-9035 9-Other: _____
 POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland Other: _____

ALTAMIRA-US, LLC
 1231 1.90 cooler # 51603
 C/F-0.1

CHAIN OF CUSTODY RECORD

 <p>ALTAMIRA formerly known as Enviro Clean Cardinal</p>		PROJECT NUMBER: WFEG 160023/0009			PROJECT NAME: WFEC MNA Program			COC: _____ of _____											
		CLIENT CONTACT: Chris Schaefer			CLIENT EMAIL: Chris.Schaefer@altamira-ces.com			CLIENT PHONE: 405-255-7538											
LABORATORY / LAB PM: ALS Anna Kirchen		CLIENT ADDRESS: 525 Central Park Dr Ste 500 OKC, OK 73105			TAT: STD														
LAB ADDRESS: ALS/Houston		SPECIAL INSTRUCTIONS: Bottles: 1-500 NP 1-500 NaOH 2-120 HNO3 Zn AC 2-HCl 250			PARAMETERS														
SHIPMENT METHOD: FedEx		TRACKING: 6862 6796 1026			NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	App A	Nitrate N	Specific Cond.	Fe + Mo (total)	Ferrous Fe	Diss Fe + Mo	Diss Ferrous + Ferric	K, Mg, Na	Sulfate	Alkalinity	HCO3, CO3, Hydroxide	HOLD	
NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.														
1	MW-22A	9/27/23	1201	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
2	MW-22B	9/27/23	1120	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
3	CM-3A	9/27/23	1030	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
4	CM-4A	9/26/23	1745	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
5	CM-4B	9/26/23	1722	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
6	CM-5A	9/26/23	1655	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
7	Dup 3			W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
8	Temp Blank			W		1	Y												
9	CM-5B	9/27/23	1315	W		6	Y	X	X	X	X	X	X	X	X	X	X	X	
10																			
11																			
12	① Samples for dissolved Fe, Mo, Ferrous + Ferric are field filtered, others are not																		
13	* App A * B, Ca, Cl, F, pH, SO4, TDS																		
14																			
15																			
SAMPLER(S) NAME: Bradley VanCleave		DATE: 9/27/23 TIME: 1400		Total # of Containers: 43		SAMPLER(S) SIGNATURE: Bradley V.C.			DATE: 9/27/23 TIME: 1400										
RELINQUISHED BY: Bradley V.C.		DATE: 9/27/23 TIME: 1400		RECEIVED BY:		DATE:		LOGGED BY: CA		DATE: 9/28/23 TIME: 0819		COOLER TEMP:							
PRESERVATION KEY:		1-HCL		2-HNO3		3-H2SO4		4-NaOH		5-Na2S2O3		6-NaHSO4		7- 4 Degrees C		8-9035		9-Other :	
POINT OF ORIGIN:		<input type="checkbox"/> Norman		<input checked="" type="checkbox"/> Oklahoma City		<input type="checkbox"/> Tulsa		<input type="checkbox"/> Yukon		<input type="checkbox"/> Midland		<input type="checkbox"/> Other :							

ALTAMIRA-US, LLC

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFEE 168823/0007

PROJECT NAME:
WFEC/MNA Monitoring program

COC: _____ of _____

CLIENT CONTACT:
Christopher Schaefer

CLIENT EMAIL:
Chris.Schaefer@altamira-us.com
Labdata " T "

CLIENT PHONE:
405-255-7538

LABORATORY / LAB PM:
ALS

CLIENT ADDRESS: 525 Central park Dr
Suite 500
OKC, OK 73105

TAT: STD

LAB ADDRESS:
ALS/Houston

SPECIAL INSTRUCTIONS: Containers for each Sample
2 x 120 Hno3
1 x 500 NP
2 x 250 HCL
1 x 500 NaOH + Zn Ac

SHIPMENT METHOD:
Fedex

TRACKING:
6862 6796 0980 / 6862 6796 1037

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.	PARAMETERS											HOLD			
						NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	APP A *	Nitrate as N	Specific Cond.	Fe + Mo (total)	Fe; Ferrous + Ferric	Diss Fe + Mo	Diss Ferrous + Ferric	K, Mg, Na	Sulfide		Alkalinity	Hco3, Co3 + Hydroxide	
1	MW-15B	9/29/23	1049	W		6	X	X	X	X	X	X	X	X	X	X	X	X		
2	CM-3B	9/29/23	1130	W		6	X	X	X	X	X	X	X	X	X	X	X	X		
3	Temp Blank			W																
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15	* APP A = B, Ca, Cl, F, PH, SO4, TDS																			

Container sizes & preservatives are listed above

HS23091616

Altamira
WFEC / MNA



Ⓞ = Samples for dissolved Fe, Mo, Ferrous + Ferric or Field Filtered, others are!

SAMPLER(S) NAME:
Tanner Hoskins / Brad VanCleave

DATE: 9/28/23
TIME: 1700
Total # of Containers:

SAMPLER(S) SIGNATURE:
Tanner Hoskins

DATE: 9/29/23
TIME: 1900

RELINQUISHED BY:
Brad VanCleave

DATE: 9/29/23
TIME: 1900
RECEIVED BY:

DATE:
TIME:


LOGGED BY:
CG

DATE: 09/30/23
TIME: 08:45


COOLER TEMP:

PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7- 4 Degrees C 8-9035 9-Other:
POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland Other: VCL

ALTAMIRA-US, LLC
Code# 51155 TEMPL 1.0 BR-131 CF-0.1

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>GM</i>
	Date: <i>9/19/23</i>	Time: <i>1900</i>	Date: <i>09/19/23</i>
	Name: <i>Frank</i>	Company: <i>Frank</i>	

51155 SEP 30 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>9/19/23</i>	Time: <i>1100</i>	Date: <i>09/19/23</i>
	Name: <i>Frank</i>	Company: <i>Frank</i>	



51155

ORIGIN ID:SGRA (405) 255-7538
 ATTN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

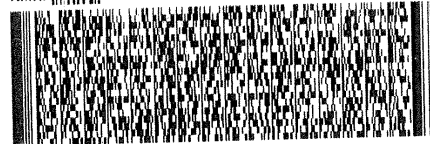
SHIP DATE: 06SEP23
 ACTWGT: 1.00
 CAP:

10 SHIPPING DEPT
 ALS LABORATORY (RT 809)
 10450 STANCLIFF R. (RT 3)
 SUITE 210
 HOUSTON TX 77099

5 12:00
 B 0980
 09.30

(281) 630-5666
 REF: WFEC - CCR - LANDFILL = BO 95300 - AN

RMA: |||||



FedEx Express



FedEx
 TRK# 6862 6796 0980
 0221

SATURDAY 12:00P
 PRIORITY OVERNIGHT

XO SGRA

77099
 TX-US IAH



ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL
 Date: 9/28/27 Time: 1:40
 Name: [Signature]
 Company: [Signature]
 Seal Broken By: [Signature]
 Date: 9-28

TRK# 6862 6796 0692
 0221
43 SGRA
 THU - 28 SEP AA
 PRIORITY OVERNIGHT
 77099
 TX-US
 IAH
 4725871 27Sep2023 SM1A 581G4/BG35/C088

ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Date: 9/28
 Name:
 Company:

CUSTODY SEAL
 Date: 9/28 Time: 1:40
 Name: [Signature]
 Company: [Signature]
 Seal Broken By: [Signature]
 Date: 9-28

ALS
 10450 Stancliff Rd, Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5666
 Fax. +1 281 530 5887

Date: 9/27
 Name: Tamera
 Company: ALS

ALS
 10450 Stancliff Rd, Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5666
 Fax. +1 281 530 5887

ALS

CUSTODY SEAL

9/27 Time: 1400
 Name: Tamera
 Company: ALS

Seal Broken By: [Signature]
 Date: 9/27

CUSTODY SEAL

9/27/23 Time: 1400
 Name: Tamera
 Company: ALS


Seal Broken By: [Signature]
 Date: 9/27

TRK# 0221 6862 6796 1026


THU - 28 SEP AA
 PRIORITY OVERNIGHT

43 SGRA


77099
 TX-US
 IAH



AL8835/C088

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>9/26/23</i> Time: <i>1400</i>	Date: <i>09/27/23</i>	
<i>51603</i>	Name: <i>Tanner Hoskins / Brad VanCleave</i>		Date: <i>09/27/23</i>
	Company: <i>Altamira</i>		

51603 **SEP 27 2023**

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>9/26/23</i> Time: <i>1400</i>	Date: <i>09/27/23</i>	
<i>51603</i>	Name: <i>Tanner Hoskins / Brad VanCleave</i>		Date: <i>09/27/23</i>
	Company: <i>Altamira</i>		



51603

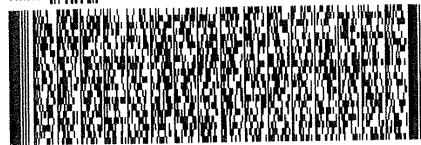
ORIGIN ID: SGRA (405) 255-7538
 ATIN: BRAD VAN CLEAVE
 ALTAMIRA
 525 CENTRAL PARK DR SUITE 500
 OKLAHOMA CITY, OK 73105
 UNITED STATES US

SHIP DATE: 06SEP23
 ACTWGT: 1.00 LB MAN
 CAD: 0221247/CAFE3751
 DIMS: 26x14x14 IN

TO **SHIPPING DEPT**
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

(281) 530-5856
 REF: WFEC - CCR - LANDFILL = BO 95300 - AN

RMA: ||| ||| |||



FedEx
Express



FedEx
 TRACKING
 0221 6862 6796 1015

WED - 27 SEP AA
PRIORITY OVERNIGHT

43 SGRA

77099
TX-US
IAH



4725071 26Sep2023 SM1A 581G4/8835/C086

ATTACHMENT C

TABULATION OF DATA

ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING						
		MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S		MW-5S	MW-5S	MW-5S
		14-Aug-17	22-May-18	1-Aug-18	10-Aug-18	2-Oct-18	10-Jan-19	23-Apr-19	2-Oct-19	18-Jun-20	12-Oct-20	1-Apr-21	14-Oct-21	(SAMPLE) 31-Mar-22	(RESAMPLE) 7-Jun-22	6-Oct-22	12-Apr-23	26-Sep-23
Total Alkalinity as CaCO3	mg/L	418	---	---	---	---	---	---	---	412	444	405	470	<5.00 ^A	419	430	292	397
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	---	---	---	15	20.5	<5	9.52	<5.00 ^A	<5.00	<5.00	<5.00	<5.0
Bicarbonate Alkalinity as CaCO3	mg/L	418	---	---	---	---	---	---	---	397	424	405	460	<5.00 ^A	419	430	292	397
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5.00	<5.00	<5.00	<5.0
Boron	mg/L	1.29	1.05	1.06	3.09	2.82	2.73	1.87	2.49	0.811	2.57	2.04	1.82	1.64	---	2.94	2.21	1.68
Calcium	mg/L	46.6	74.7	59.1	24.9 J	25	27.7	57	22.5	68.2	19.6	33.4	21.0	53.8	---	24.1	37	57.3
Chloride	mg/L	18.7	25	18.7	26.1	28.3	30.5	21.8	25.1	19.5	25.6	23.9	26.4	23 ^A	24.1	25.6	23.8	24.8
Dissolved Oxygen (field)	mg/L	0.05	0.13	5.05	1.37	0.21	0.63	0.85	0.45	1.89	0.32	0.81	0.36	0.31	2.7	0.44	0.37	0.16
Fluoride	mg/L	1.17	1.38	1.02	1.5	1.54	1.02	1.11	1.54	0.824	1.51	1.24	1.57	3.24 ^A	1.41	1.4	1.25	1.2
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	0.0170 J	0.0270 J	0.0435 J ^A	0.0311 J	<0.0120	0.0165 J	0.0172 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120 ^A	0.0138 J	<0.0120	<0.0120	0.0165 J
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	0.0270 J	0.0435 J ^A	0.0311 J	<0.0200	<0.0200	<0.02
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	<0.0200	<0.0200 ^A	<0.02	<0.0200	<0.0200	<0.02
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0290 J	<0.0200	<0.020	<0.0200	<0.0200 ^A	<0.02	<0.0200	<0.0200	<0.02
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	<0.0200 H	<0.0200 ^A	<0.02	<0.0200	<0.0200	<0.02
Magnesium	mg/L	5.19	---	---	---	---	5.73	---	---	5.16	4.38	4.53	4.60	5.79	---	4.79	5.72	6.24
Molybdenum, Total	mg/L	0.00737	---	0.00497	0.00387	<0.005	0.00512	0.00485 J	0.00315 J	0.00361 J	0.00244 J	0.00234 J	0.00387 J	0.00257 J	---	0.00210 J	0.00211 J	0.00307 J
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00335 J	---	---	0.00308 J	0.00244 J	0.00287 J	0.00296 J	0.00248 J	---	0.00232 J	0.00207 J	0.00294 J
Nitrate as N	mg/L	---	---	---	---	0.089 J	0.964	0.665	0.212	<0.0300	<0.0300	0.631	0.0984 J	705 ^A	0.0996 J,H	0.243	0.467	0.31
Oxidation-Reduction Potential (field)	mV	21.5	-104.7	142.8	-40.1	-125.1	-30.9	19.7	-54.1	-48.2	168.1	283.3	-59.9	46.2	20.5	-33.9	54.1	-61.1
pH (laboratory)	S.U.	7.5	7.6	7.7	8	8.7	7.65	8.11	7.55	7.65	8.21	7.9	8.16	1.68 ^A	8.19	7.89	7.73	8.09
pH (field)	S.U.	7.79	7.85	7.19	7.62	7.61	7.56	7.95	7.91	7.9	7.83	7.74	7.85	7.77	7.9	7.73	7.61	7.65
Potassium	mg/L	4.14	---	---	---	---	4.49	---	---	3.48	3.94	3.25	3.96	3.74	---	4.17	3.84	4.76
Sodium	mg/L	307	---	---	---	---	405	---	---	277	335	312	243	341	---	387	371	309
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1730	1870	---	---	---	1960	1770	1820	15600 ^A	2,280	1990	1880	1820
Specific Conductance (field)	umhos/cm	1760	1516	1516	1843	1871	1791	1669	1826	1665	1794	1745	1863	1372	1820	1884	1789	1905
Sulfate	mg/L	301	369	294	384	447	457	394	434	408	485	477	499	1540 ^A	503	482	556	518
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	<1.00	<1.00 ^A	<1	<1.00	<1.70	<1.70
Temperature (field)	°C	22.46	20.24	25.07	23.59	25.3	13.4	18.78	25.18	24.37	21.5	14.7	23.7	16.4	19.8	24.9	20.9	26.2
Total Dissolved Solids	mg/L	980	950	880	1150	1140	1120	1090	1180	904	1080	1140	1140	1540 ^A	1170	1100	1100	956
Turbidity (field)	NTU	1.14	0.41	0.02	1.12	3.3	4.51	1.16	0.94	2.88	1.97	2.85	2.16	1.61	1.72	2.71	2.13	3.22
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.27	---	---	---	1.97	1.19	1.91	0.61	3	0.93	1.97	---

- Notes:**
1. mg/L : milligrams per liter.
 2. S.U. : Standard Units.
 3. °C : degrees Celsius.
 4. umhos/cm : micromhos per centimeter.
 5. mV : millivolts.
 6. NTU : Nephelometric Turbidity Unit.
 7. < : Analyte not detected at the laboratory method detection limit (MDL).
 8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
 9. --- : no analysis performed.
 10. H : Analyzed outside of holding time..
 11. ** : Insufficient sample volume for analysis due to well depletion.
 12. *** : Insufficient sample volume for field measurements.
 13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING							
		MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S (SAMPLE) (RESAMPLE)		MW-7S	MW-7S (DUP 3)	MW-7S	MW-7S
		10-Aug-17	17-May-18	3-Aug-18	10-Aug-18	4-Oct-18	10-Jan-19	23-Apr-19	1-Oct-19	17-Jun-20	9-Oct-20	30-Mar-21	15-Oct-21	31-Mar-22	Jun-22	5-Oct-22		18-Apr-23	27-Sep-23
Total Alkalinity as CaCO3	mg/L	311	---	---	---	---	222	---	---	264	315	180	343	205	---	326	297	190	288
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	---	<5	7.48	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	311	---	---	---	---	222	---	---	264	315	180	343	205	---	326	289	190	288
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	---	<5	<5.00	<5.00	<5.00
Boron	mg/L	2.21	1.25	0.283	3.31	2.7	0.839	0.848	1.99	1.33	2.29	0.677	2.18	0.646	---	2.7	3.07	0.88	2.28
Calcium	mg/L	80.6	178	90.3	142	76	277	271	81	160	90.2	254	97.1	302	---	100	111	228	119
Chloride	mg/L	16.2	17.6	16.4	17	16.1	18.7	19.7	16.3	18	16.9	20.5	16.8	19.9	---	16.9	16.7	18.9	17
Dissolved Oxygen (field)	mg/L	0.08	0.22	1.61	2.95	0.45	0.23	0.84	0.51	0.49	0.33	0.31	0.30	0.38	---	0.39	---	0.21	0.12
Fluoride	mg/L	0.744	0.509	0.771	0.664	0.764	0.422	0.376	0.729	0.479	0.713	0.444	0.746	0.515	---	0.711	0.824	0.468	0.628
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.278	0.111 J	0.0145 J	0.310	<0.0120	---	0.158 J	0.186 J	<0.0120	0.199 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	0.0340 J	0.235	0.0154 J	0.134 J	<0.0120	---	0.113 J	0.0883 J	<0.0120	0.125 J
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	<0.0200	---	0.0310 J	0.079	<0.0200	<0.0200
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	0.134	<0.0200	---	<0.0200	0.0883	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.306	0.216	<0.02	0.207	<0.0200	---	0.127	0.107	<0.0200	0.206
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	<0.0200	---	0.117	<0.02	<0.0200	0.222
Magnesium	mg/L	10.7	---	---	---	---	19	---	---	17.1	12	16.9	12.2	20.0	---	12.2	13.8	19.2	14.3
Molybdenum, Total	mg/L	0.00171 J	---	0.00127 J	<0.001	<0.01	0.00105 J	0.000952 J	0.000798 J	0.00105 J	0.00106 J	0.000755 J	0.00115 J	0.000973 J	---	0.00103 J	0.00134 J	0.000973 J	0.00135 J
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00107 J	---	---	0.000987 J	0.00103 J	0.000846 J	0.00121 J	0.000830 J	---	0.00112 J	0.00108 J	0.00110 J	0.00114 J
Nitrate as N	mg/L	---	---	---	---	0.118	0.557	<0.03	<0.03	<0.0300	<0.0300	<0.06	0.0940 J	0.0613 J	---	0.155	0.147	<0.0300	<0.0300
Oxidation-Reduction Potential (field)	mV	57.6	-58.8	-20.8	-30.7	-129.1	-6.3	-61.6	-133.8	-67.6	-90.1	83.3	-107.8	-30.3	---	-179.9	---	62	-188.2
pH (laboratory)	S.U.	7.4	7.6	7.6	7.7	8	7.34	7.82	7.39	7.55	7.79	7.32	7.84	7.88	---	7.81	8.01	7.41	8.1
pH (field)	S.U.	7.22	7.4	6.92	7.22	7.35	7.08	7.42	7.53	7.37	7.52	7.24	7.47	7.32	---	7.37	---	7.22	7.47
Potassium	mg/L	4.95	---	---	---	---	4.67	---	---	5.33	5.1	4.06	5.14	4.56	---	5.34	6	4.84	6.1
Sodium	mg/L	273	---	---	---	---	274	---	---	313	272	230	261	272	---	313	352	277	290
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1610	2240	---	---	---	2110	2380	1860	2530	---	2,000	2050	2490	1970
Specific Conductance (field)	umhos/cm	1680	2101	1822	1932	1887	2180	2326	1944	2097	1945	2377	1973	2385	---	2015	---	2344	1974
Sulfate	mg/L	450	860	545	623	1600	1200	1040	633	970	759	1200	690	1190	---	687	687	1410	778
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	1.48	<1.00	<1.00	<1.00	---	<1.00	<1.00	<1.70	<1.70
Temperature (field)	°C	24.46	19.6	29.34	25.21	25	12.8	17.92	25.27	21.95	23.1	16.8	22.5	14.2	---	26.8	---	18.5	26.2
Total Dissolved Solids	mg/L	1120	1600	1210	1330	1230	1670	1890	1270	1680	1340	2060	1290	1920	---	1350	1260	1740	1150
Turbidity (field)	NTU	3.45	2.29	3.37	1.76	8.01	0.67	0.71	0.88	2.49	0.85	5.81	3.15	2.42	---	2.91	---	2.12	2.87
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.64	---	---	---	0.85	---	1.83	2.24	---	1.08	---	1.27	1.97

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time.
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.
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ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING						
		MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A		MW-14A	MW-14A	MW-14A
		9-Aug-17	17-May-18	1-Aug-18	9-Aug-18	4-Oct-18	11-Jan-19	24-Apr-19	2-Oct-19	17-Jun-20	8-Oct-20	31-Mar-21	13-Oct-21	(SAMPLE)	(RESAMPLE)	6-Oct-22	12-Apr-23	26-Sep-23
Total Alkalinity as CaCO3	mg/L	280	---	---	---	---	---	---	---	327	327	332	348	330	---	321	294	303
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	280	---	---	---	---	---	---	---	327	327	332	348	330	---	321	294	303
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	0.764	1.14	0.925	1.8	1.18	1.42	1.23	0.98	0.907	0.882	0.839	0.857	0.918	---	1.01	1.01	0.82
Calcium	mg/L	672	313	341	746	319	402	314	306	280	278	298	263	330	---	313	319	294
Chloride	mg/L	13.8	15.3	15	16	14.2	14	13.5	14.2	13.3	14.9	14.3	12.8	13.8	---	12.5	12	11.3
Dissolved Oxygen (field)	mg/L	0.1	0.24	252	1.65	0.31	0.19	1.45	0.62	0.79	0.59	0.34	0.40	0.66	---	0.57	0.33	0.26
Fluoride	mg/L	0.312	0.292	0.333	0.296	0.281	0.269	0.377 J	0.286	0.23	0.254 J	0.284	0.221	0.406 J	---	0.324	0.307	0.246
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0771 J	0.236	0.162 J	1.22	0.249	---	0.803	0.126 J	0.574
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	0.169 J	0.150 J	0.357	0.189 J	---	0.475	0.0795 J	0.541
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.107	0.935	0.119	---	0.225	0.126	0.078
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.116	0.357	0.0470 J	---	<0.0200	0.08	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.098	0.184	0.055	0.285	0.130	---	0.578	<0.0200	0.496
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.034 J	<0.0200 H	0.142	---	0.489	<0.0200	0.527
Magnesium	mg/L	24.4	---	---	---	---	---	---	---	26.6	26.2	25.9	26.5	29.2	---	25.4	29.7	28.1
Molybdenum, Total	mg/L	0.00223	---	<0.001	<0.01	<0.01	0.00170 J	0.00104 J	0.000709 J	0.000760 J	<0.000600	<0.000600	<0.000600	<0.000600	---	<0.000600	<0.000600	<0.000600
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00143 J	---	---	0.000768 J	0.000621 J	0.00165 J	<0.000600	<0.000600	---	<0.000600	<0.000600	<0.000600
Nitrate as N	mg/L	---	---	---	---	0.087 J	0.478	1.64	<0.03	0.316	<0.150	<0.0600	<0.0600	0.484 J	---	0.0777 J	0.22	0.0458 J
Oxidation-Reduction Potential (field)	mV	97.7	-48.5	0.2	68.3	13.1	19.5	4.6	27.7	-45.7	107.1	20.5	-128.9	35.2	---	-70	-49	-112.2
pH (laboratory)	S.U.	6.9	7.4	7.3	7.1	7.6	7.28	7.61	7.18	7.44	7.41	7.7	6.74	7.99	---	7.06	7.58	7.5
pH (field)	S.U.	6.75	7.1	6.82	6.47	6.93	6.9	7.28	7.1	7.04	7.1	7.33	7.00	7.17	---	6.90	7.06	7.10
Potassium	mg/L	7.88	---	---	---	---	8.64	---	---	7.66	7.94	7.87	7.84	8.73	---	7.8	8.81	8.74
Sodium	mg/L	518	---	---	---	---	516	---	---	382	388	413	388	503	---	424	469	397
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	3000	3270	---	---	---	3660	3260	3320	3490	---	3540	3370	3320
Specific Conductance (field)	umhos/cm	3186	3301	3415	3410	3491	3251	3386	3435	3107	3394	4453	2989	3300	---	3400	3240	3335
Sulfate	mg/L	1420	1790	1580	1600	1650	1660	1540	1580	1650	1770	1680	1690	1610	---	1600	1760	1700
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	3.08	<1.00	---	<1.00	<1.70	<1.70
Temperature (field)	°C	21.41	22.9	25.6	21.33	23.1	16.2	17.75	24.4	21	23.7	15.84	20.0	15.2	---	25.2	18.8	26.6
Total Dissolved Solids	mg/L	2680	2700	2700	2730	2710	2590	2680	2750	2780	2630	2680	2630	2690	---	2580	2320	2780
Turbidity (field)	NTU	0.71	0.37	1.53	0.02	3.17	4.89	2.06	3.88	4.71	2.96	3.52	9.38	2.40	---	1.24	3.01	3.25
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.94	---	---	---	2.96	---	2.37	2.42	---	0.97	2	2.31

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
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ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING						
		MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A		MW-15A	MW-15A	MW-15A
		9-Aug-17	24-May-18	1-Aug-18	10-Aug-18	2-Oct-18	10-Jan-19	25-Apr-19	2-Oct-19	18-Jun-20	8-Oct-20	31-Mar-21	13-Oct-21	30-Mar-22	Jun-22	6-Oct-22	12-Apr-23	25-Sep-23
Total Alkalinity as CaCO3	mg/L	160	---	---	---	---	149	---	---	209	204	196	226	193	---	189	180	186
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	---	<5.00	<5.00	<5.0
Bicarbonate Alkalinity as CaCO3	mg/L	130	---	---	---	---	149	---	---	209	204	196	226	193	---	189	180	186
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	---	<5.00	<5.00	<5.0
Boron	mg/L	3.38	4.83	3.7	4.14	3.76	3.52	3.61	3.19	4.57	3.33	3.35	2.14	3.35	---	3.11	3.44	3.27
Calcium	mg/L	156	160	93.4	129	170	129	92	82.4	141	89.8	78.6	96.6	119	---	113	107	148
Chloride	mg/L	25.7	26.9	26.6	26.5	26.6	26.3	21.9	25.9	26.3	26.5	27.3	25.7	27.0	---	26.2	25.3	26.2
Dissolved Oxygen (field)	mg/L	0.06	0.14	1.62	1.23	0.21	0.41	1.24	0.71	1.39	0.28	4.47	0.38	0.51	---	0.4	0.3	0.69
Fluoride	mg/L	1.37	1.76	1.2	1.17	1.21	1.22	1.2	1.24	0.86	1.14	1.13	1.01	1.31	---	1.31	1.24	0.986
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0535 J	0.0496 J	0.0492 J	0.368	0.236	---	0.208	0.138 J	0.756
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	0.165 J	0.133 J	0.590	0.234	---	0.367	0.371	0.635
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.0840	0.0360 J	---	<0.0200	<0.0200	0.1730
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.101	0.590	<0.0200	---	<0.0200	0.133	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0410 J	0.0210 J	0.054	0.284	0.200	---	0.089	0.238	0.583
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.032 J	<0.0200 H	0.243	---	0.358	0.238	0.738
Magnesium	mg/L	9.36	---	---	---	---	12.4	---	---	16.5	11	10.9	10.2	12.3	---	10.3	12.5	11.6
Molybdenum, Total	mg/L	0.255	---	0.202	0.182	0.233	0.205	0.219	0.196	0.269	0.167	0.168	0.149	0.181	---	0.149	0.173	0.158
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.244	---	---	0.168	0.153	0.159	0.181	0.159	---	0.149	0.175	0.165
Nitrate as N	mg/L	---	---	---	---	0.068 J	1.42	1.72	0.287	<0.0600	<0.150	1.14	0.0704 J	0.894	---	0.246	0.544	0.134
Oxidation-Reduction Potential (field)	mV	43.1	-101.3	133.1	140.8	-69.9	98	-22.1	-79.5	-50.3	167.2	13.8	-59.9	93.7	---	-85.1	129.9	-107.2
pH (laboratory)	S.U.	7.5	7.6	7.8	7.8	8.2	7.02	8.02	7.58	7.68	7.77	7.93	7.45	8.08	---	7.74	7.77	7.93
pH (field)	S.U.	7.42	7.72	7.42	7.43	7.53	7.45	7.82	7.71	7.73	7.71	7.82	7.61	7.65	---	7.58	7.58	7.66
Potassium	mg/L	5.28	---	---	---	---	5.98	---	---	8.24	5.15	5.47	4.97	5.91	---	4.96	5.82	5.46
Sodium	mg/L	541	---	---	---	---	746	---	---	1040	627	594	421	680	---	609	702	608
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	3490	3540	---	---	---	3780	3400	3370	3620	---	3590	3470	3380
Specific Conductance (field)	umhos/cm	3524	3505	3548	3578	3563	3449	3544	3575	3337	3422	4645	3431	3386	---	3393	3304	3404
Sulfate	mg/L	1720	1690	1510	1490	1570	1610	1310	1510	1680	1650	1590	1580	1540	---	1510	1690	1660
Sulfide	mg/L	---	---	---	---	---	---	---	---	1.12	<1.00	<1.00	<1.00	<1.00	---	<1.00	<1.70	<1.70
Temperature (field)	°C	22.68	21.24	25.05	23.28	23.1	18.5	20.72	27.05	24.09	22.2	16.37	22.4	18.1	---	25.6	18	25
Total Dissolved Solids	mg/L	2710	2660	2490	2610	2650	2590	2570	2500	2520	2460	2420	2370	2450	---	2370	2240	2570
Turbidity (field)	NTU	1.31	0.39	5.5	1.68	4.11	1.13	0.55	0.84	2.6	1.73	0.88	3.34	2.38	---	0.9	1.66	4.59
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.09	---	---	---	0.61	---	2.23	2.46	---	0.3	1.16	2.05

- Notes:
1. mg/L : milligrams per liter.
 2. S.U. : Standard Units.
 3. °C : degrees Celsius.
 4. umhos/cm : micromhos per centimeter.
 5. mV : millivolts.
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 7. < : Analyte not detected at the laboratory method detection limit (MDL).
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 10. H : Analyzed outside of holding time..
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 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		MW-15B	MW-15B	MW-15B	MW-15B	MW-15B		MW-15B	MW-15B	MW-15B
		24-Jul-20	13-Oct-20	31-Mar-21	14-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	12-Apr-23	29-Sep-23
Total Alkalinity as CaCO3	mg/L	680	724	771	802	768	---	776	684	662
Carbonate Alkalinity as CaCO3	mg/L	38.1	14.8	<5.00	<5.00	<5.00	---	13.1	<5.00	10.2
Bicarbonate Alkalinity as CaCO3	mg/L	642	709	771	802	768	---	763	684	652
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	4.27	5.08	3.67	4.78	6.08	---	5.58	5.27	4.94
Calcium	mg/L	39.3	38.3	35.1	52.8	59.8	---	65.5	48.8	59.5
Chloride	mg/L	60.1	57	57.2	56.0	56.7	---	56.8	54.6	55.7
Dissolved Oxygen (field)	mg/L	4.21	5.04	2.4	9.52	3.81	---	3.35	***	***
Fluoride	mg/L	1.23	0.96	1.14	1.15	1.24	---	1	1.04	0.79
Iron, Total	mg/L	22.7	1.51	7.89	8.51	3.31	---	12.6	6.21	3.68
Iron, Dissolved	mg/L	2.11	<0.0120	0.0212 J	0.0794 J	0.172 J	---	<0.0120	<0.0120	<0.0120
Iron, Ferric	mg/L	---	---	7.21	6.69	2.86	---	6.30	5.37	2.90
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	0.0794	0.172	---	<0.0200	<0.0200	<0.0200
Iron, Ferrous	mg/L	2.67	7.52	0.68	1.82	0.451	---	6.3	0.84	0.771
Iron, Ferrous, Dissolved	mg/L	---	---	0.235	<0.0200 H	<0.0200	---	0.0260 J	<0.0200	<0.0200
Magnesium	mg/L	13.2	11.5	10.2	15.9	18.0	---	17.5	13.9	17.2
Molybdenum, Total	mg/L	0.0109	0.00876	0.00571	0.00328 J	0.00370 J	---	0.00153 J	0.00160 J	<0.00120
Molybdenum, Dissolved	mg/L	0.016	0.00762	0.00814	0.00679	0.00519	---	0.00501	0.00426 J	0.00324 J
Nitrate as N	mg/L	---	36.2	29.4	18.3	23.2	---	19.7	23.3	24.7
Oxidation-Reduction Potential (field)	mV	224.1	236.6	211.3	240.1	85.2	---	218.2	***	***
pH (laboratory)	S.U.	7.66	7.87	7.66	7.59	7.99	---	7.62	8.05	8.33
pH (field)	S.U.	7.91	7.88	7.43	7.58	7.56	---	7.42	***	***
Potassium	mg/L	10.3	6.72	8.19	8.29	8.39	---	8.25	6.67	7.68
Sodium	mg/L	713	836	625	866	1220	---	953	952	1010
Specific Conductance (laboratory)	umhos/cm	---	4520	4300	4410	4910	---	5230	4530	4800
Specific Conductance (field)	umhos/cm	3513	2486	4208	4285	4606	---	3927	***	***
Sulfate	mg/L	1280	1340	1560	1580	1590	---	1530	1640	1760
Sulfide	mg/L	3	5	<1.00	3.31	40.0	---	<1.00	<1.70	<1.70
Temperature (field)	°C	21.7	20.7	18	20.4	19.7	---	19.8	***	***
Total Dissolved Solids	mg/L	2390	2940	3080	2990	3380	---	3290	3570	2700
Turbidity (field)	NTU	568	80.1	>1,000	>1000	>1000	---	>1000	>1000	>1000
Filtered Turbidity (field)	NTU	0.72	1.69	0.72	22.4	3.16	---	0.87	1.21	2.38

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
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 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING							
		MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16		MW-16	MW-16	MW-16	
		11-Aug-17	22-May-18	1-Aug-18	10-Aug-18	2-Oct-18	16-Jan-19	23-Apr-19	3-Oct-19	18-Jun-20	13-Oct-20	1-Apr-21	14-Oct-21	(SAMPLE) 1-Apr-22	(RESAMPLE) 7-Jun-22	6-Oct-22	12-Apr-23	27-Sep-23	
Total Alkalinity as CaCO3	mg/L	238	---	---	---	---	256	---	---	232	233	228	264	94 ^A	258.0	288.0	259.0	408.0	
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5	10.7	<5.00	7.8	
Bicarbonate Alkalinity as CaCO3	mg/L	238	---	---	---	---	256	---	---	232	233	228	264	94 ^A	258.0	277.0	259.0	400.0	
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5	<5.00	<5.00	<5.0	
Boron	mg/L	1.79	1.95	1.9	2.39 J	2.05	2.23	1.85	1.53	1.43	1.78	1.57	1.61	1.85	---	2.54	1.8	2.35	
Calcium	mg/L	238	122	159	185	221	215	192	185	149	186	166	140	158	153	---	132	118	128
Chloride	mg/L	18	21.3	20.6	29.6	18	19	15.8	23.8	14.7	14.8	14.4	16.2	16.6 ^A	15.0	25.8	16.5	43.4	
Dissolved Oxygen (field)	mg/L	0.16	0.37	1.59	2.7	0.25	1.37	0.83	3.67	2.18	1.99	0.46	3.3	1.06	0.42	1.55	0.17	0.22	
Fluoride	mg/L	0.817	1.01	0.963	1.17	0.832	1.01	0.741	1.07	0.694	0.893	0.916	0.964	1.3 ^A	1.01	1.25	0.91	1.43	
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0358 J	0.125 J	0.0536 J	0.369	0.0158 J ^A	0.0145 J	0.0547 J	0.0982 J	0.0333 J	
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	0.0160 J	0.0694 J	0.0140 J	0.190 J	<0.0120 ^A	<0.0120	0.0203 J	<0.0120	0.121 J	
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.0536	0.178	<0.0200 ^A	<0.02	0.0547	0.098	<0.0200	
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.190	<0.0200 ^A	<0.02	0.0203 J	<0.0200	0.121	
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0380 J	0.0240 J	<0.02	0.191	<0.0200 ^A	<0.02	<0.0200	<0.0200	0.087	
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	<0.0200 ^A	<0.02	<0.0200	<0.0200	<0.0200	
Magnesium	mg/L	10.3	---	---	---	---	---	---	---	8.44	7.59	7.65	7.38	8.40	---	7.24	8.22	7.51	
Molybdenum, Total	mg/L	0.181	---	0.145	0.154	0.169	0.18	0.193	0.149	0.172	0.149	0.166	0.163	0.146	---	0.113	0.127	0.103	
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.18	---	---	0.173	0.16	0.18	0.189	0.131	---	0.112	0.127	0.0644	
Nitrate as N	mg/L	---	---	---	---	0.133	<0.03	0.854	<0.03	<0.0600	<0.0600	0.687	<0.0300	50.4 ^A	0.0630 J,H	0.127	0.194	<0.0300	
Oxidation-Reduction Potential (field)	mV	60.3	-83.7	186.4	150.4	-131.8	278.9	28.7	-191.5	-56.9	60.2	57.7	-167.2	20.9	-25.9	-51.7	103.1	-114.1	
pH (laboratory)	S.U.	7.2	7.5	7.5	7.8	8.2	7.33	7.88	7.01	7.6	7.63	7.83	7.75	7.42 ^A	7.92	7.85	7.78	8.29	
pH (field)	S.U.	7.09	7.57	7.11	7.3	7.53	7.21	7.56	7.82	7.66	7.69	8.12	7.74	7.67	7.74	7.36	7.5	7.98	
Potassium	mg/L	3.33	---	---	---	---	4.18	---	---	2.85	3.09	3.12	3.18	3.58	---	3.61	4.12	3.87	
Sodium	mg/L	272	---	---	---	---	405	---	---	309	316	325	295	389	---	415	419	336	
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2420	2340	---	---	---	2400	2420	2340	2500 ^A	2,910	2650	2340	2980	
Specific Conductance (field)	umhos/cm	2330	2463	2436	2678	2816	2273	2436	2330	2836	2438	2615	3178	2699	1865	2358	2412	2294	3021
Sulfate	mg/L	1020	933	938	998	959	1020	974	1020	1030	929	1070	1110	1100 ^A	1090	996	986	1100	
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	1.4	<1.00	<1.00	<1.00 ^A	<1	<1.00	<1.70	<1.70	
Temperature (field)	°C	24.61	22.87	23.7	23.74	25.4	14.8	19.31	24.89	21.9	23.5	16.32	23	15.9	20	23.1	20.7	27.6	
Total Dissolved Solids	mg/L	1710	1820	1810	1930	1780	1740	1810	1610	1610	1610	1790	1590	1670 ^A	1700	1690	1570	1970	
Turbidity (field)	NTU	1.11	1.21	3.49	2.96	2.89	6.82	2.53	1.48	3.09	0.75	2.16	4.38	0.25	1.84	1.55	3.89	2.49	
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.03	---	---	---	0.75	---	2.21	0.16	1.97	---	1.98	2.16	

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
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ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING							
		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17		MW-17	MW-17	MW-17	MW-17
		10-Aug-17	21-May-18	1-Aug-18	10-Aug-18	3-Oct-18	10-Jan-19	25-Apr-19	3-Oct-19	18-Jun-20	12-Oct-20	31-Mar-21	14-Oct-21	(SAMPLE) 31-Mar-22	(RESAMPLE) 7-Jun-22	6-Oct-22	12-Apr-23	MW-17 (DUP 4)	MW-17
Total Alkalinity as CaCO3	mg/L	260	---	---	---	---	280	---	---	284	273	269	288	<5.00 [^]	269	276	230	249	257
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<5	<5.00	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	260	---	---	---	---	280	---	---	284	273	269	288	<5.00 [^]	269	276	230	249	257
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<5	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	0.666	0.588	0.659	0.845 J	0.567	0.766	0.796	0.622	0.652	0.64	0.539	0.700	0.593	---	0.902	0.739	0.713	0.65
Calcium	mg/L	528	436	549	787	461	436	591	499	555	494	453	467	428	---	541	599	537	561
Chloride	mg/L	3.28	3.15	3.84	3.27	4.81	3.44	3.65	3.75	4.29	4.04	4.06	4.02	5.24 [^]	4.16	4.25	4.11	4.11	4
Dissolved Oxygen (field)	mg/L	0.29	0.21	5.57	4.59	0.44	0.51	1.8	0.8	1.35	0.41	0.45	0.52	1.86	0.8	1.94	0.24	---	0.42
Fluoride	mg/L	0.328	0.324	0.47	0.317	0.393	0.337	0.392 J	0.37	0.211	0.366	0.412	0.317	<0.250 [^]	0.371	0.34	0.349	0.33	0.311
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	0.0541 J	<0.0120	0.0325 J [^]	<0.0120	<0.0120	<0.0120	<0.0120	0.0122 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120 [#]	0.0198 J	<0.0120 [^]	<0.0120	0.0581 J	<0.0120	0.0149 J	<0.0120
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.0541 [#]	<0.0200	0.0325 J [^]	<0.02	<0.0200	<0.0200	<0.0200	<0.0200
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02 [#]	<0.0200	<0.0200 [^]	<0.02	0.0581	<0.0200	<0.0200	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0200 J	<0.0200	<0.0200	<0.0200	<0.0200 [^]	0.0220 J,H	<0.0200	<0.0200	<0.0200	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02 [#]	<0.0200 H	<0.0200 [^]	<0.02 H	<0.0200	<0.0200	<0.0200	0.0280 J
Magnesium	mg/L	36.6	---	---	---	---	38.1	---	---	37.8	30.9	29.3	34.6	30.9	---	33.7	43.3	39	36.4
Molybdenum, Total	mg/L	<0.001	---	<0.001	<0.001	<0.001	<0.0006	0.000671 J	<0.0006	<0.000600	<0.000600	0.000950 J	<0.000600	<0.000600	---	<0.000600	<0.000600	0.000602 J	<0.000600
Molybdenum, Dissolved	mg/L	---	---	---	---	---	<0.0006	---	---	0.00123 J	<0.000600	0.00292 J [#]	<0.000600	<0.000600	---	<0.000600	<0.000600	0.000660 J	<0.000600
Nitrate as N	mg/L	---	---	---	---	0.276	<0.03	<0.150	<0.03	<0.0600	<0.0600	<0.0300	<0.0600	420 H [^]	0.0834 J,H	0.0756 J	<0.0300	<0.0300	<0.0300
Oxidation-Reduction Potential (field)	mV	65.7	-49.2	172.9	209.4	237.5	57.8	2.4	148.3	-28.1	129.9	37.4	61.7	103.6	81.5	37.8	-66.6	---	124.4
pH (laboratory)	S.U.	6.9	6.9	7.2	7	7.5	6.59	7.53	6.37	7.38	7.51	7.34	7.12	1.87 [^]	7.67	7.04	7.12	7.14	7.73
pH (field)	S.U.	6.69	6.92	6.64	6.8	6.7	6.67	7.09	6.88	6.8	6.88	7.14	6.90	7.08	7.04	6.79	6.83	---	6.64
Potassium	mg/L	5.15	---	---	---	---	5.37	---	---	5.15	4.42	4.19	4.94	4.50	---	4.99	5.92	5.34	5.43
Sodium	mg/L	34.5	---	---	---	---	35.7	---	---	35.6	29.2	28.2	32.5	35.2	---	32.8	40.8	36.7	35.1
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1920	2450	---	---	---	2610	2460	2390	11900 [^]	2,920	2570	2500	2400	2480
Specific Conductance (field)	umhos/cm	2417	2416	2606	2569	2548	2416	2470	2458	2344	2393	3256	2467	1811	2369	2441	2407	---	2400
Sulfate	mg/L	1450	1140	1310	1340	821	1480	1100	1310	1390	1,220 H	1310	1390	1970 [^]	1,460	1320	1510	1510	1470
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00 [#]	1.12	<1.00 [^]	<1	<1.00	<1.70	<1.70	<1.70
Temperature (field)	°C	21.98	20.98	25.04	22.3	23.3	15.9	19.26	23.63	21.2	23.2	18.75	22.9	18.3	22.5	25.9	20.6	---	27.8
Total Dissolved Solids	mg/L	2140	2360	2340	2380	1670	2300	2400	2160	2230	2160	2200	2210	2340 [^]	2,220	2170	2050	2210	2270
Turbidity (field)	NTU	0.81	0.52	4.63	14.5	5.4	1.24	0.63	0.65	2.28	0.58	0.64	1.80	0.85	1.61	1.94	2.62	---	0.85
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.69	---	---	---	0.58	---	---	0.75	---	---	1.54	---	0.53

- Notes:**
1. mg/L : milligrams per liter.
 2. S.U. : Standard Units.
 3. °C : degrees Celsius.
 4. umhos/cm : micromhos per centimeter.
 5. mV : millivolts.
 6. NTU : Nephelometric Turbidity Unit.
 7. < : Analyte not detected at the laboratory method detection limit (MDL).
 8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
 9. --- : no analysis performed.
 10. H : Analyzed outside of holding time..
 11. ** : Insufficient sample volume for analysis due to well depletion.
 12. *** : Insufficient sample volume for field measurements.
 13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING								
		MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18			MW-18	MW-18	MW-18	MW-18
		10-Aug-17	18-May-18	2-Aug-18	10-Aug-18	3-Oct-18	14-Jan-19	25-Apr-19	1-Oct-19	17-Jun-20	12-Oct-20	31-Mar-21	14-Oct-21	(SAMPLE)	DUP 3	(RESAMPLE)	6-Oct-22	12-Apr-23	27-Sep-23	MW-18 (DUP 1)
Total Alkalinity as CaCO3	mg/L	77.9	---	---	---	---	75.1	---	---	71	69.9	65.5	73.8	63.6	89.1	---	61.6	63.8	58.8	59
Carbonate Alkalinity as CaCO3	mg/L	52.6	---	---	---	---	42.2	---	---	60.6	64.3	46.8	55.8	58.6	64.7	---	56.5	51.6	40.2	37.2
Bicarbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	24.4	---	<5.00	<5.00	<5.00	<5.00
Hydroxide Alkalinity	mg/L	25.3	---	---	---	---	32.9	---	---	10.4	5.63	18.7	17.9	<5.00	<5.00	---	5.06	12.2	18.6	21.8
Boron	mg/L	6.51	6.71	4.86	6.65	5.77	6.89	6.05	5.29	5.49	5.43	4.32	4.61	4.65	5.06	---	5.2	4.75	4.81	4.06
Calcium	mg/L	28.7	28.1	36.1	31.1	25.1	31.8	33.1	25.6	21.6	20	19.3	19.3	23.9	25.3	---	17.7	21.9	18.4	18.4
Chloride	mg/L	6.1	5.19	8.04	5.33	5.5	5.59	4.79	5.07	4.06	4.22	4.2	4.39	4.86	4.60	---	3.88	5.7	5.1	5.19
Dissolved Oxygen (field)	mg/L	0.03	0.17	4.03	0.9	0.21	0.36	1.44	0.33	0.55	0.24	0.39	0.36	0.40	---	---	0.51	0.25	0.24	---
Fluoride	mg/L	1.38	1.37	1.26	1.35	1.37	1.32	1.25	1.47	1.28	1.66	1.71	1.90	2.10	1.92	---	1.84	1.7	1.57	1.65
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	---	<0.0120	<0.0120	0.0122	0.0450 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	---	<0.0120	0.0352 J	<0.0120	<0.0120
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200	<0.0200	<0.0200	---	<0.0200	<0.0200	<0.0200	0.0450 J
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200	<0.0200	<0.0200	---	<0.0200	0.0350 J	<0.0200	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0200 J	<0.0200	<0.02	<0.0200	<0.0200	<0.0200	---	<0.0200	<0.0200	<0.0200	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	<0.0200	<0.0200	---	<0.0200	<0.0200	0.066	<0.0200
Magnesium	mg/L	<0.220	---	---	---	---	---	---	---	0.141 J	0.27	0.426	0.152 J	0.559	0.587	---	0.181 J	0.241	0.211	0.0965 J
Molybdenum, Total	mg/L	0.39	---	0.113	0.319	0.33	0.333	0.342	0.257	0.194	0.18	0.195	0.209	0.206	0.222	---	0.183	0.232	0.197	0.203
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.332	---	---	0.18	0.166	0.215	0.211	0.199	0.203	---	0.172	0.243	0.2	0.198
Nitrate as N	mg/L	---	---	---	---	0.053 J	0.075 J	<0.05	<0.03	<0.0600	<0.0300	<0.0300	0.0606 J	0.712	0.146 J	---	0.0851 J	0.0517 J	0.0666 J	0.0729 J
Oxidation-Reduction Potential (field)	mV	28.2	-139.8	-65.1	-119.7	130.1	174.9	-152.8	-71.2	130.1	-140.3	-80.5	-49.7	-9.7	-0.8	---	-72.2	-95	-118.9	---
pH (laboratory)	S.U.	10.7	10.1	7.8	10.2	9.8	10.4	10.2	10.3	9.35	10.2	10.5	9.95	9.69	9.30	---	10.2	9.96	10	10.1
pH (field)	S.U.	10.54	10.74	9.71	10.41	10.45	10.47	10.93	10.4	10.65	10.4	10.39	10.46	9.97	---	---	9.96	10.29	10.35	---
Potassium	mg/L	22	---	---	---	---	22.3	---	---	15.9	14.6	13.6	15.0	14.6	15.3	---	14.5	16.1	15.8	16.1
Sodium	mg/L	523	---	---	---	---	603	---	---	376	348	324	329	391	406	---	381	407	421	382
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2590	2520	---	---	---	2200	2090	2040	2070	2080	---	2090	2030	2000	1990
Specific Conductance (field)	umhos/cm	2716	2530	2568	2658	2632	2442	2486	2350	1998	1986	1999	2041	1962	---	---	1976	2010	2032	---
Sulfate	mg/L	1070	1120	996	1030	1090	1110	933	1020	888	794	904	896	837	842	---	804	971	997	895
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	---	<1.00	<1.70	<1.70	<1.70
Temperature (field)	°C	22.11	21.12	24.1	22.37	23.6	14	17.89	24.8	22.45	23.5	17	20.7	17.6	---	---	26	19.9	26.6	---
Total Dissolved Solids	mg/L	1850	1740	1660	1730	1760	1630	1680	1550	1340	1270	1260	1320	1300	1310	---	1250	1280	1120	1200
Turbidity (field)	NTU	1.21	0.22	0.02	0.02	2.04	2.79	0.49	0.92	2.43	0.34	1	1.99	2.53	---	---	2.26	2.44	2.81	---
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.47	---	---	---	---	0.62	1.89	2.46	---	---	---	1.16	1.97	---

- Notes:**
1. mg/L : milligrams per liter.
 2. S.U. : Standard Units.
 3. °C : degrees Celsius.
 4. umhos/cm : micromhos per centimeter.
 5. mV : millivolts.
 6. NTU : Nephelometric Turbidity Unit.
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 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING											CMA SAMPLING								
		MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	DUP 2	MW-19S	MW-19S	MW-19S	MW-19S		MW-19S	MW-19S	MW-19S	
		10-Aug-17	18-May-18	2-Aug-18	10-Aug-18	3-Oct-18	15-Jan-19	25-Apr-19	1-Oct-19	17-Jun-20	12-Oct-20	31-Mar-21	DUP 3	15-Oct-21	1-Apr-22	Jun-22	6-Oct-22	17-Apr-23	27-Sep-23		
Total Alkalinity as CaCO3	mg/L	132	---	---	---	---	141	---	---	128	130	132	135	133	150	136	---	130	124	116	
Carbonate Alkalinity as CaCO3	mg/L	85.8	---	---	---	---	59.8	---	---	92.6	98.7	89.2	63.8	69	77.3	53.6	---	61	62.4	53	
Bicarbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5.00	<5	<5	<5.00	<5.00	---	<5.00	<5.00	<5.00	
Hydroxide Alkalinity	mg/L	46.2	---	---	---	---	81.2	---	---	35.1	31.4	42.6	71.6	64.4	73.0	82.4	---	68.7	62	63.2	
Boron	mg/L	7.64	8.43	8.64	3.78	10.2	9.79	8.57	6.64	6.8	7.18	6.88	6.86	8.41	5.88	9.73	---	8.43	7.69	9.51	
Calcium	mg/L	41.3	45.7	35	24.8	35.3	50	52.4	40.4	43.6	42.1	40.7	42.3	35.3	41.6	44.2	---	40.7	38.5	41.7	
Chloride	mg/L	15.7	14.5	15.1	14.9	14.8	14.2	13.7	14.4	13.8	14	14.1	13.7	14	13.6	14.6	---	13.3	12.8	12.5	
Dissolved Oxygen (field)	mg/L	0.02	0.24	4.64	1.32	0.33	0.21	1.5	0.5	0.36	---	0.16	0.27	---	0.21	0.27	---	0.32	0.19	0.15	
Fluoride	mg/L	1.32	1.3	1.34	1.3	1.24	1.27	1.13	1.37	1.15	1.04	1.38	1.46	1.54	1.57	1.66	---	1.59	1.47	1.28	
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0153 J	<0.0120	<0.0120	<0.0120	<0.0120	0.0509 J	0.0554 J	---	<0.0120	0.0162 J	0.0322 J	
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	0.0210 J	<0.0120	---	<0.0120	<0.0120	<0.0120	
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	<0.0200	0.0254 J	---	<0.0200	<0.0200	<0.0200	
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	0.0210 J	<0.0200	---	<0.0200	<0.0200	<0.0200	
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0430 J	0.0330 J	0.0310 J	<0.02	<0.02	0.0450 J	0.0300 J	---	0.0230 J	0.063	0.051	
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	<0.0200 H	0.0290 J	---	<0.0200	<0.0200	0.071	
Magnesium	mg/L	<0.220	---	---	---	---	0.121 J	---	---	0.0553 J	0.0510 J	0.0346 J	0.0773 J	0.0681 J	0.0415 J	0.0836 J	---	0.0228 J	0.109 J	0.0892 J	
Molybdenum, Total	mg/L	0.469	---	0.384	0.112	0.439	0.472	0.462	0.377	0.402	0.394	0.367	0.398	0.351	0.407	0.445	---	0.43	0.362	0.45	
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.463	---	---	0.373	0.383	0.37	0.457	0.398	0.440	0.406	---	0.413	0.379	0.417	
Nitrate as N	mg/L	---	---	---	---	<0.049	<0.03	<0.150	<0.03	<0.0600	<0.0600	<0.150	<0.0600	<0.0600	<0.0600	0.102 J	---	<0.0300	<0.0300	<0.0300	
Oxidation-Reduction Potential (field)	mV	-215.4	-312.1	-227.4	-249	172.1	-162	-281.7	-252.4	-588.1	---	209.2	-191.7	---	-237.2	-244.4	---	-249.1	-58.2	13.2	
pH (laboratory)	S.U.	10.8	10.5	9.7	10.5	9.9	10.4	10.5	10.6	10.2	9.88	10.9	10.8	10.6	10.8	10.8	---	10.8	10.6	10.6	
pH (field)	S.U.	10.72	11.09	10.55	10.56	10.63	11.01	11.26	10.65	10.97	---	10.92	11.09	---	10.84	10.94	---	10.54	10.78	10.17	
Potassium	mg/L	35.9	---	---	---	---	38.2	---	---	35.2	34.1	33.7	33.9	29	34.6	37.0	---	37.7	32.3	37.2	
Sodium	mg/L	697	---	---	---	---	801	---	---	644	598	610	639	545	462	723	---	752	662	830	
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2470	3530	---	---	---	---	3860	3500	3540	3370	3570	---	3570	3270	3210	
Specific Conductance (field)	umhos/cm	3552	3530	3587	3563	3610	3438	3524	3552	3309	---	3433	3406	---	3342	3309	---	3277	3090	3111	
Sulfate	mg/L	1650	1630	1520	1480	1950	1640	1520	1580	1490	1590	1640	1560	1560	1570	1420	---	1480	1740	1480	
Sulfide	mg/L	---	---	---	---	---	---	---	---	1.52	<1.00	1.8	<1.00	<1.00	<1.00	<1.00	---	<1.00	<1.70	<1.70	
Temperature (field)	°C	24.37	20.38	26.67	24.71	25.4	13.4	17.92	25.86	22.99	---	23.8	18.3	---	21.8	17.2	---	23.5	20.6	26	
Total Dissolved Solids	mg/L	2440	2560	2390	2440	2490	2500	2440	2460	2300	2290	2340	2360	2310	2290	2180	---	2210	2310	2250	
Turbidity (field)	NTU	1.26	0.47	0.02	4.16	2.05	5.19	0.57	0.61	2.86	---	1.24	0.73	---	2.77	2.22	---	1.82	3.94	1.61	
Filtered Turbidity (field)	NTU	---	---	---	---	---	2.24	---	---	---	---	1.24	0.59	---	1.88	2.33	---	--	1.62	0.59	

- Notes:**
1. mg/L : milligrams per liter.
 2. S.U. : Standard Units.
 3. °C : degrees Celsius.
 4. umhos/cm : micromhos per centimeter.
 5. mV : millivolts.
 6. NTU : Nephelometric Turbidity Unit.
 7. < : Analyte not detected at the laboratory method detection limit (MDL).
 8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
 9. --- : no analysis performed.
 10. H : Analyzed outside of holding time..
 11. ** : Insufficient sample volume for analysis due to well depletion.
 12. *** : Insufficient sample volume for field measurements.
 13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING						
		MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A		MW-22A	MW-22A	MW-22A	MW-22A (DUP 3)	
		11-Aug-17	22-May-18	10-Aug-18	3-Oct-18	16-Jan-19	25-Apr-19	30-Sep-19	18-Jun-20	9-Oct-20	31-Mar-21	13-Oct-21	(SAMPLE) 1-Apr-22	(RESAMPLE) 6-Jun-22	4-Oct-22	18-Apr-23	27-Sep-23	
Total Alkalinity as CaCO3	mg/L	231	---	---	---	256	---	---	249	249	232	315	<5.00 ^A	242	262	212	230	233
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5	<5.00	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	231	---	---	---	256	---	---	249	249	232	315	<5.00 ^A	242	262	212	230	233
Hydroxide Alkalinity	mg/L	<5	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	1.77	1.74	2.18	1.45	1.78	1.88	1.49	2.82	1.84	1.6	1.76	2.16	---	1.84	1.83	1.83	2.02
Calcium	mg/L	559	636	697	702	643	507	481	754	507	529	515	581	---	574	515	529	611
Chloride	mg/L	2.28	2.6	2.41	2.4	2.24	2.56	2.39	2.34	2.05 J	2.17	2.06 J	2.94 J ^A	2.38	2.46	2.32	2.22	2.19
Dissolved Oxygen (field)	mg/L	0.43	2.18	2.72	0.44	0.9	4.05	1.23	3.35	0.68	2	0.26	0.19	0.38	0.39	1.07	0.52	---
Fluoride	mg/L	0.341	2.24	0.315	0.329	0.299	0.374 J	0.364	0.237	0.279 J	0.249	0.608	<0.500 ^A	0.329	0.354	0.319	0.27	0.252
Iron, Total	mg/L	---	---	---	---	---	---	---	0.0509 J	<0.0120	0.0536 J	0.660	0.75 ^A	1.020	0.375	0.159 J	0.299	0.113 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	<0.0120	0.0121 J	0.0206 J	1.00	0.371 ^A	0.235	1.040	0.0511 J	<0.0120	0.0169 J
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	0.0536	<0.0200	0.188 ^A	0.785	<0.0200	0.116	0.299	0.113
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	0.0206 J	<0.0200	0.699 ^A	0.108	<0.0200	0.051	<0.0200	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	<0.0200	<0.0200	<0.02	0.904	0.051 ^A	0.1180	1.0200	0.0430 J	<0.0200	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	0.253 ^A	0.127	1.16	<0.0200	0.0200 J	<0.0200
Magnesium	mg/L	87.1	---	---	---	107	---	---	126	85	95	96.2	97.5	---	92.6	102	98.8	106
Molybdenum, Total	mg/L	<0.001	---	<0.001	<0.001	<0.0006	<0.0006	0.000787 J	<0.000600	<0.000600	<0.000600	<0.000600	0.00114 J	---	<0.000600	<0.000600	<0.000600	<0.000600
Molybdenum, Dissolved	mg/L	---	---	---	---	0.000822 J	---	---	0.000773 J	<0.000600	<0.000600	0.0328	0.000982 J	---	<0.000600	<0.000600	<0.000600	<0.000600
Nitrate as N	mg/L	---	---	---	0.458	<0.03	<0.150	0.198	<0.0600	<0.150	<0.0600	<0.150	773 ^A	0.0307 J	0.171	0.0482 J	0.0626 J	0.0734 J
Oxidation-Reduction Potential (field)	mV	64.2	-14.8	-30.2	275.1	275.6	43.2	-110.1	-36.5	146.4	207.4	-251.1	-77.1	-105.5	-172.7	148.8	125.4	---
pH (laboratory)	S.U.	6.8	7	7.1	7.4	6.49	7.61	6.74	7.08	7.48	7.21	7.32	1.62 ^A	7.41	7.18	7.08	7.44	7.5
pH (field)	S.U.	6.76	7.01	7.02	6.75	6.75	7.19	7.02	6.97	6.97	7	7.00	7.16	6.91	6.87	6.88	6.72	---
Potassium	mg/L	14.4	---	---	---	17.8	---	---	21.7	13.7	15.2	16.7	16.1	---	14.5	17.1	16.2	18
Sodium	mg/L	140	---	---	---	169	---	---	202	135	147	158	153	---	150	161	159	166
Specific Conductance (laboratory)	umhos/cm	---	---	---	3180	3170	---	---	---	3450	3450	3250	21000 ^A	4010	3770	3330	3300	3290
Specific Conductance (field)	umhos/cm	3218	3135	3244	3277	3181	3208	3236	3013	3165	3195	2975	2681	3206	2893	3155	3143	---
Sulfate	mg/L	2030	1940	1860	1830	1990	1740	1880	2160	2010	2020	1970	3760 ^A	1950	1910	2270	2050	2070
Sulfide	mg/L	---	---	---	---	---	---	---	1.52	<1.00	<1.00	2.08	<1.00 ^A	<1	<1.00	<1.70	<1.70	<1.70
Temperature (field)	°C	23.05	20.84	24.37	20.9	13.6	17.89	22.78	23.52	20.7	18.2	23.3	17.8	21.5	21	21.8	24.1	---
Total Dissolved Solids	mg/L	3030	3090	3050	1910	3000	3170	3030	3390	3160	3040	3010	2520 ^A	3090	3230	3560	3180	3160
Turbidity (field)	NTU	5.72	2.09	3.67	2.71	51.5	3.81	1.89	9.49	2.92	18.3	7.88	5.90	13.50	3.10	3.64	2.05	---
Filtered Turbidity (field)	NTU	---	---	---	---	4.9	---	---	---	0.51	---	1.18	1.59	2.89	0.86	1.68	1.4	---

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.
13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		MW-22B	MW-22B	MW-22B	MW-22B	MW-22B		MW-22B	MW-22B	MW-22B
		24-Jul-20	13-Oct-20	31-Mar-21	13-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	27-Sep-23
Total Alkalinity as CaCO3	mg/L	333	364	364	435	435	---	438	436	439
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	328	364	364	435	435	---	438	436	439
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	2.97	3.4	3.14	3.17	4.02	---	3.75	4.32	3.67
Calcium	mg/L	90.1	69.8	75.8	82.7	103	---	161	98.1	107
Chloride	mg/L	55.5	56.1	57.8	55.0	57.8	---	55.4	52.7	53.2
Dissolved Oxygen (field)	mg/L	5.05	1.23	5.4	9.27	5.16	---	4.36	4.51	3.57
Fluoride	mg/L	1.14	1.05	1.46	1.21	1.08	---	1.32	1.16	0.97
Iron, Total	mg/L	11.7	0.282	4.19	6.04	7.27	---	19.3	<0.0120	0.255
Iron, Dissolved	mg/L	<0.0120	<0.0120	<0.0120	0.0138 J	0.0136 J	---	<0.0120	1.560	<0.0120
Iron, Ferric	mg/L	---	---	3.23	4.22	5.61	---	7.90	<0.0200	0.085
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	<0.0200	---	<0.0200	1.560	<0.0200
Iron, Ferrous	mg/L	3.06	0.58	0.957	1.82	1.66	---	11.4	<0.0200	0.17
Iron, Ferrous, Dissolved	mg/L	---	---	0.53	<0.0200 H	<0.0200	---	0.0260 J	<0.0200	<0.0200
Magnesium	mg/L	24.1	21.7	23.4	26.0	28.4	---	31.2	28.6	29.7
Molybdenum, Total	mg/L	0.00878	0.00866	0.00753	0.00446 J	0.00357 J	---	0.00105 J	0.00389 J	0.00280 J
Molybdenum, Dissolved	mg/L	0.0111	0.00853	0.00841	0.00723	0.00554	---	0.00393 J	0.00396 J	0.00275 J
Nitrate as N	mg/L	---	<0.0600	1.03	0.958	1.38	---	2.15	1.67	2.92
Oxidation-Reduction Potential (field)	mV	180.5	235.6	37.4	259.2	132.3	---	99.4	119.8	96.3
pH (laboratory)	S.U.	7.57	7.77	7.75	7.59	7.99	---	7.55	7.58	7.81
pH (field)	S.U.	7.95	7.64	7.88	7.72	7.67	---	7.63	7.67	7.08
Potassium	mg/L	10.3	7.81	8.79	10.2	10.7	---	9.87	9.61	9.69
Sodium	mg/L	838	842	846	848	1110	---	918	1100	887
Specific Conductance (laboratory)	umhos/cm	---	5100	4460	4690	5060	---	5540	4900	4960
Specific Conductance (field)	umhos/cm	4364	4400	6102	4547	4600	---	4113	4612	4721
Sulfate	mg/L	2180	2040	2080	2090	1980	---	1940	2340	2190
Sulfide	mg/L	4	<1.00	<1.00	<1.00	42.2	---	<1.00	<1.70	<1.70
Temperature (field)	°C	22.3	19.3	17.23	20.7	20.2	---	19.5	19.4	20
Total Dissolved Solids	mg/L	3000	3340	3280	3290	3430	---	3550	4180	3740
Turbidity (field)	NTU	926	8.67	>1,000	391	806	---	>1000	233	90.9
Filtered Turbidity (field)	NTU	1.21	0.21	1.41	2.05	2.78	---	1.23	1.37	0.53

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
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13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-1A	CM-1A	CM-1A	CM-1A	CM-1A		CM-1A	CM-1A	CM-1A
		24-Jul-20	7-Oct-20	1-Apr-21	14-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	26-Sep-23
Total Alkalinity as CaCO3	mg/L	326	346	337	356	353	---	318	302	304
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	326	346	337	356	353	---	318	302	304
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	0.748	0.612	0.664	0.883	0.733	---	0.843	0.63	0.686
Calcium	mg/L	452	480	464	531	551	---	531	497	496
Chloride	mg/L	49.5	28.4	26.3	21.2	26.4	---	20.9	22.6	20.3
Dissolved Oxygen (field)	mg/L	6	0.59	1.8	0.37	1.9	---	0.33	2.27	0.27
Fluoride	mg/L	0.382	<0.500	0.483	0.399	0.390 J	---	0.426	0.467	0.336
Iron, Total	mg/L	5.34	0.0215 J	0.0232 J	0.115 J	0.0770 J	---	0.0460 J	0.0303 J	0.0287 J
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0713 J	0.0382 J	0.0224 J	---	0.0380 J	0.0141 J	0.0270 J
Iron, Ferric	mg/L	---	---	0.0232 J	0.0640	0.0770	---	0.0460 J	0.0300 J	0.0290 J
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	0.0382 J	0.0220 J	---	<0.0200	<0.0200	0.0270 J
Iron, Ferrous	mg/L	0.114	<0.0200	<0.0200	0.051	<0.0200	---	<0.0200	<0.0200	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	<0.0200	<0.0200 H	<0.0200	---	0.076	<0.0200	<0.0200
Magnesium	mg/L	65.7	55.4	50.2	77.6	59.4	---	63.1	48.8	60.0
Molybdenum, Total	mg/L	0.0088	0.00198 J	0.00132 J	0.00127 J	<0.000600	---	<0.000600	<0.000600	<0.000600
Molybdenum, Dissolved	mg/L	0.00385 J	0.00169 J	0.00159 J	0.00121 J	0.000720 J	---	0.000601 J	<0.000600	0.000676 J
Nitrate as N	mg/L	---	<0.300	<0.0600	<0.0300	0.294 J	---	<0.0300	<0.0300	<0.0300
Oxidation-Reduction Potential (field)	mV	301.9	170.1	175.7	-58.0	91.2	---	-7.9	124.5	102.1
pH (laboratory)	S.U.	6.52	7.69	7.61	7.73	7.77	---	6.91	7.3	7.61
pH (field)	S.U.	6.93	6.84	6.95	6.77	7.04	---	6.74	6.94	6.63
Potassium	mg/L	12.4	8.79	7.52	11.9	7.52	---	8.87	6.68	8.29
Sodium	mg/L	178	181	170	198	206	---	184	165	181
Specific Conductance (laboratory)	umhos/cm	---	3620	3180	3300	3410	---	3790	3310	3360
Specific Conductance (field)	umhos/cm	3105	3258	3225	3092	3163	---	3062	3125	3205
Sulfate	mg/L	1970	1810	1910	1940	1770	---	1810	2150	1990
Sulfide	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	---	<1.00	<1.70	<1.70
Temperature (field)	°C	23.7	22.7	18.7	21.8	17.9	---	22.3	20.3	22.8
Total Dissolved Solids	mg/L	2980	3130	3090	3030	2840	---	3210	2960	3280
Turbidity (field)	NTU	31.4	2.91	2.39	15.6	5.72	---	1.78	2.58	2.9
Filtered Turbidity (field)	NTU	0.67	0.65	1.1	1.23	2.05	---	0.99	2.59	0.98

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.
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ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-1B	CM-1B	CM-1B	CM-1B	CM-1B		CM-1B	CM-1B	CM-1B
		24-Jul-20	12-Oct-20	1-Apr-21	14-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	26-Sep-23
Total Alkalinity as CaCO3	mg/L	432	439	---	424	394	---	362	343	325
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	---	<5.00	<5.00	---	6.12	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	432	439	---	424	394	---	356	343	325
Hydroxide Alkalinity	mg/L	<5.00	<5.00	---	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	3.86	3.84	3.44	3.48	4.06	---	3.86	4.08	4.41
Calcium	mg/L	233	128	127	119	123	---	130	119	129
Chloride	mg/L	107	110	---	113	116	---	112	111	115
Dissolved Oxygen (field)	mg/L	4.33	---	0.81	0.39	0.60	---	0.3	0.32	0.23
Fluoride	mg/L	0.626	0.599	---	0.789	0.828	---	0.786	1.12	0.779
Iron, Total	mg/L	47.5	3.89	0.194 J	0.0865 J	0.172 J	---	0.115 J	0.543	0.952
Iron, Dissolved	mg/L	0.0150 J	0.0164 J	0.0136 J	<0.0120	0.159 J	---	0.0940 J	0.496	0.599
Iron, Ferric	mg/L	---	---	0.112	0.0435 J	0.0870	---	0.0480 J	<0.0200	0.24
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	0.0480 J	---	<0.0200	<0.0200	<0.0200
Iron, Ferrous	mg/L	26	7.3	0.082	0.0430 J	0.0850	---	0.067	0.607	0.708
Iron, Ferrous, Dissolved	mg/L	---	---	0.0450 J	<0.0200 H	0.111	---	0.101	0.615	0.596
Magnesium	mg/L	50.8	41.7	43.3	45.1	45.2	---	43.7	40.5	42.2
Molybdenum, Total	mg/L	0.0133	0.0144	0.0113	0.00976	0.00696 J	---	0.00551	0.00488 J	0.00500 J
Molybdenum, Dissolved	mg/L	0.019	0.0155	0.0126	0.0108	0.00727	---	0.00564	0.00448 J	0.00531
Nitrate as N	mg/L	---	9.85	---	<0.0600	0.232 J	---	<0.0300	<0.150	<0.0600
Oxidation-Reduction Potential (field)	mV	184.2	-80.5	189.3	-70.5	-45.5	---	-109.9	-49.3	46.9
pH (laboratory)	S.U.	7.67	8.12	---	8.03	8.03	---	7.52	7.64	8.08
pH (field)	S.U.	7.62	10.4	7.45	7.43	7.62	---	7.46	7.53	7.36
Potassium	mg/L	19.7	12.3	12.4	13.6	13.1	---	11.9	11.5	12.1
Sodium	mg/L	877	881	899	951	1140	---	990	1020	1260
Specific Conductance (laboratory)	umhos/cm	---	5650	---	5110	5370	---	5830	5020	5110
Specific Conductance (field)	umhos/cm	4900	1986	5107	4662	4963	---	4518	4795	4821
Sulfate	mg/L	2490	2290	---	2300	2190	---	2200	2370	2580
Sulfide	mg/L	5	<1.00	<1.00	<1.00	<1.00	---	<1.00	<1.70	<1.70
Temperature (field)	°C	23.3	23.5	19.9	22.6	16.1	---	21.7	20.2	23.9
Total Dissolved Solids	mg/L	3490	3760	---	3670	3770	---	3780	3900	4040
Turbidity (field)	NTU	>1,000	0.34	14.8	18.2	3.93	---	3.18	4.55	2.34
Filtered Turbidity (field)	NTU	---	0.34	1.16	1.8	2.29	---	1.05	1.56	1.09

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
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**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING			CMA SAMPLING						
		CM-2	DUP 1	CM-2	CM-2	CM-2	CM-2		CM-2	CM-2	CM-2
		24-Jul-20	7-Oct-20	1-Apr-21	15-Oct-21	31-Mar-22	(RESAMPLE) Jun-22	6-Oct-22	11-Apr-23	26-Sep-23	
Total Alkalinity as CaCO3	mg/L	337	347	329	328	353	318	---	337	315	316
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	337	347	329	328	353	318	---	337	315	316
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	0.93	0.941	0.845	0.679	0.744	0.480	---	0.596	1.65	0.409
Calcium	mg/L	492	533	491	466	487	467	---	406	533	378
Chloride	mg/L	3.79	3.12	2.84 J	3.49	3.15	2.87	---	2.49	2.16	2.09
Dissolved Oxygen (field)	mg/L	4.62	---	0.27	0.67	0.40	2.08	---	0.23	1.29	0.26
Fluoride	mg/L	0.558	0.565	<0.500	0.419	0.526	0.506	---	0.462	0.488	0.417
Iron, Total	mg/L	2.78	2.97	0.0482 J	0.132 J	0.232	0.115 J	---	0.175 J	1.72	0.126 J
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0139 J	0.0386 J	0.237	0.136 J	---	0.0817 J	0.157 J	0.0794 J
Iron, Ferric	mg/L	---	---	---	0.132	0.0970	0.0820	---	0.135	0.874	0.126
Iron, Ferric, Dissolved	mg/L	---	---	---	<0.0200	0.237	0.0800	---	0.0217 J	<0.0200	0.052
Iron, Ferrous	mg/L	0.109	0.146	<0.0200	<0.0200	0.135	0.0330 J	---	0.0400 J	0.846	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	---	<0.0200	<0.0200 H	0.0560	---	0.06	0.194	0.0270 J
Magnesium	mg/L	31.6	32.8	28.7	24.4	29.5	18.8	---	19.6	45.1	16.0
Molybdenum, Total	mg/L	0.00209 J	0.00218 J	0.00203 J	0.00161 J	0.00120 J	0.000820 J	---	<0.000600	0.00152 J	<0.000600
Molybdenum, Dissolved	mg/L	0.00158 J	0.00134 J	0.00177 J	0.00118 J	0.00136 J	0.000820 J	---	0.00105 J	<0.000600	<0.000600
Nitrate as N	mg/L	---	---	<0.300	0.529	0.0497 J	0.256	---	0.194	0.204	0.102
Oxidation-Reduction Potential (field)	mV	244.3	---	170.2	72.3	-27.8	44.3	---	-78.3	93.3	165.5
pH (laboratory)	S.U.	6.66	6.6	7.91	7.82	7.37	7.79	---	7.09	7.54	7.74
pH (field)	S.U.	7.02	---	6.89	6.8	6.80	7.05	---	6.79	6.91	6.69
Potassium	mg/L	8.78	8.74	7.09	6.88	7.56	5.01	---	5.69	9.52	4.71
Sodium	mg/L	111	116	110	94	107	73.2	---	80.2	178	59.2
Specific Conductance (laboratory)	umhos/cm	---	---	3020	2190	2500	2220	---	2420	2110	2060
Specific Conductance (field)	umhos/cm	2713	---	2872	2870	2182	2109	---	2131	2126	2041
Sulfate	mg/L	1680	1730	1590	1210	1370	1010	---	982	1050	1060
Sulfide	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	---	<1.00	<1.70	<1.70
Temperature (field)	°C	21	---	20.1	17.7	21.4	18.2	---	20.9	19.7	24.6
Total Dissolved Solids	mg/L	2490	2660	2690	2060	2210	1780	---	1720	1560	1720
Turbidity (field)	NTU	16	---	18.8	2.32	14.6	2.5	---	12.9	2.01	1.54
Filtered Turbidity (field)	NTU	0.47	---	3.91	0.82	2.82	2.71	---	1.37	1.78	0.85

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
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**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-3A	CM-3A	CM-3A	CM-3A	CM-3A		CM-3A	CM-3A	CM-3A
		21-Aug-20	13-Oct-20	30-Mar-21	14-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	27-Sep-23
Total Alkalinity as CaCO3	mg/L	**	616	489	630	602	---	589	566	571
Carbonate Alkalinity as CaCO3	mg/L	**	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	**	616	489	630	602	---	589	566	571
Hydroxide Alkalinity	mg/L	**	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	4.84	3.8	2.82	2.72	3.26	---	3	3.4	4.16
Calcium	mg/L	50.9	70.3	64.3	67.6	49.9	---	72.8	41.1	52.4
Chloride	mg/L	52.9	36.1	54.8	42.5	37.0	---	33.3	24.4	22.4
Dissolved Oxygen (field)	mg/L	**	***	3.3	4.96	4.53	---	3.89	9.05	4.78
Fluoride	mg/L	0.425	0.699	0.858	0.801	0.870	---	0.816	0.754	0.664
Iron, Total	mg/L	2.78	8.53	0.0152 J	6.76	0.971	---	12.9	2.11	4.38
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.794	0.0291 J	3.34	---	5.32	<0.0120	<0.0120
Iron, Ferric	mg/L	---	---	<0.0200	5.27	0.209	---	4.17	2.00	2.98
Iron, Ferric, Dissolved	mg/L	---	---	0.313	0.0291 J	3.28	---	4.82	<0.0200	<0.0200
Iron, Ferrous	mg/L	**	0.480 J	1.45	1.49	0.762	---	8.73	0.0250 J	1.4
Iron, Ferrous, Dissolved	mg/L	---	---	0.481	<0.0200 H	0.0570	---	0.501	0.0250 J	<0.0200
Magnesium	mg/L	6.26	10.4	13.3	10.7	10.4	---	11.1	8.7	10.1
Molybdenum, Total	mg/L	0.0457	0.0222	0.0153	0.00297 J	0.00656	---	0.00155 J	0.00503	0.00187 J
Molybdenum, Dissolved	mg/L	0.0445	0.0299	0.0157	0.0120	0.00844	---	0.00234 J	0.00704	0.00436 J
Nitrate as N	mg/L	1.67	7.55	19.9	7.07	17.1	---	16.2	21.8	27.6
Oxidation-Reduction Potential (field)	mV	**	***	212.5	281.8	127.2	---	219.9	110.6	91.8
pH (laboratory)	S.U.	8.76	7.82	7.95	7.73	7.82	---	7.62	7.64	7.89
pH (field)	S.U.	**	***	7.6	7.37	7.64	---	7.44	7.64	7.28
Potassium	mg/L	6.13	7.41	6.68	6.38	5.96	---	6.15	6.12	6.03
Sodium	mg/L	429	499	559	447	525	---	518	516	564
Specific Conductance (laboratory)	umhos/cm	---	2940	2910	2410	2790	---	2390	2380	2590
Specific Conductance (field)	umhos/cm	**	***	3015	2467	2609	---	2088	2266	2504
Sulfate	mg/L	554	749	971	635	677	---	600	594	635
Sulfide	mg/L	**	<1.00	<1.00	2.12	34.2	---	<1.00	<1.70	<1.70
Temperature (field)	°C	**	***	18.7	19.7	19.7	---	20.4	20.5	20.5
Total Dissolved Solids	mg/L	1700	1840	2330	1560	1710	---	1720	1700	1820
Turbidity (field)	NTU	**	***	>1,000	>1000	>1000	---	>1000	>1000	>1000
Filtered Turbidity (field)	NTU	**	***	0.44	1.84	2.00	---	---	1.83	0.58

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
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ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-3B	CM-3B	CM-3B	CM-3B	CM-3B		CM-3B	CM-3B	CM-3B
		21-Aug-20	15-Oct-20	2-Apr-21	11-Oct-21	(SAMPLE)	(RESAMPLE)	7-Oct-22	19-Apr-23	29-Sep-23
Total Alkalinity as CaCO3	mg/L	**	413	519	**	753	---	769	729	738
Carbonate Alkalinity as CaCO3	mg/L	**	16.5	17.6	**	102	---	25	35.4	28
Bicarbonate Alkalinity as CaCO3	mg/L	**	396	502	**	651	---	744	693	710
Hydroxide Alkalinity	mg/L	**	<5.00	<5.00	**	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	3.82	3.44	4.73	**	5.14	---	3.3	4.83	4.87
Calcium	mg/L	70	62.7	100	**	70.1	---	80.1	33.3	109
Chloride	mg/L	48.9	28.8	40.2	**	53.0	---	50.5	48.7	48.7
Dissolved Oxygen (field)	mg/L	**	***	***	***	2.3	---	***	2.42	***
Fluoride	mg/L	1.9	1.14	1.52	**	1.51	---	1.68	1.43	1.31
Iron, Total	mg/L	23.5	22.8	55.6	**	16.7	---	22.6	3.96	25.6
Iron, Dissolved	mg/L	0.0140 J	0.0399 J	0.0419 J	**	46.7	---	0.0127 J	16.9	0.0169 J
Iron, Ferric	mg/L	---	---	---	**	16.1	---	16.90	2.72	***
Iron, Ferric, Dissolved	mg/L	---	---	---	**	45.2	---	<0.0200	16.7	***
Iron, Ferrous	mg/L	**	**	---	**	0.636	---	5.68	1.24	***
Iron, Ferrous, Dissolved	mg/L	---	---	---	**	1.45	---	<0.0200	0.181	***
Magnesium	mg/L	13.6	11.2	23.2	**	13.6	---	11.0	11.1	18.0
Molybdenum, Total	mg/L	0.0327	0.0318	0.0353 J	**	0.0174	---	0.00819	0.016	0.00490 J
Molybdenum, Dissolved	mg/L	0.0394	0.0355	0.0392	**	0.0256	---	0.0204	0.00879	0.0154
Nitrate as N	mg/L	<0.0300	4.64	31.3	**	65.6	---	<0.0300	91.5	<0.0300
Oxidation-Reduction Potential (field)	mV	**	***	***	***	86.7	---	***	44.6	***
pH (laboratory)	S.U.	8.11	8.65	8.24	**	8.51	---	8.23	8.2	8.48
pH (field)	S.U.	**	***	***	***	7.48	---	***	7.29	***
Potassium	mg/L	11.1	9.04	23.6	**	9.25	---	6.25	7.58	9.29
Sodium	mg/L	573	603	847	**	948	---	616	889	989
Specific Conductance (laboratory)	umhos/cm	---	2540	2930	**	4030	---	4640	4330	4340
Specific Conductance (field)	umhos/cm	**	***	***	***	3731	---	***	3477	***
Sulfate	mg/L	1090	733	942	**	1070	---	684	1220	1190
Sulfide	mg/L	**	**	---	**	**	---	<1.00	***	***
Temperature (field)	°C	**	***	***	***	20.7	---	***	18.2	***
Total Dissolved Solids	mg/L	2240	1310	2340	**	3580	---	2810	4590	2710
Turbidity (field)	NTU	**	***	***	***	>1000	---	***	>1000	>1000
Filtered Turbidity (field)	NTU	**	***	***	***	---	---	***	***	***

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.
13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-4A	CM-4A	CM-4A	CM-4A	CM-4A		CM-4A	CM-4A	CM-4A
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	26-Sep-23
Total Alkalinity as CaCO3	mg/L	470	557	510	605	619	---	616	416	572
Carbonate Alkalinity as CaCO3	mg/L	20	5.28	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	450	552	510	605	619	---	616	416	572
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	3.03	4.42	3.24	3.56	4.69	---	4.12	1.82	3.03
Calcium	mg/L	103	71.7	59.1	66.5	162	---	117	78.3	27.5
Chloride	mg/L	92.4	105	109	90.2	82.9	---	77.1	29.7	37.4
Dissolved Oxygen (field)	mg/L	2.68	***	3.93	5.31	4.31	---	4.15	5.05	5.82
Fluoride	mg/L	0.879	0.602	0.947	0.737	0.787	---	0.795	0.718	0.942
Iron, Total	mg/L	40	6.78	7.67	4.64	21.6	---	14.2	9.5	2.93
Iron, Dissolved	mg/L	0.0205 J	0.0162 J	0.0149 J	<0.0120	0.0901 J	---	0.0782 J	0.0178 J	<0.0120
Iron, Ferric	mg/L	---	---	6.98	4.10	19.5	---	7.36	9.50	2.08
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	<0.0200	---	0.0436 J	<0.0200	<0.0200
Iron, Ferrous	mg/L	1.92	10.3	0.69	0.544	2.14	---	6.84	<0.0200	0.851
Iron, Ferrous, Dissolved	mg/L	---	---	0.278	<0.0200 H	0.0720	---	0.0350 J	<0.0200	<0.0200
Magnesium	mg/L	16.7	15.2	13.5	16.4	20.8	---	17.9	8.0	6.2
Molybdenum, Total	mg/L	0.0269	0.0271	0.0212	0.0105	0.00455 J	---	0.00449 J	0.00436 J	0.00825
Molybdenum, Dissolved	mg/L	0.0529	0.0391	0.0255	0.0194	0.0183	---	0.017	0.00595	0.0177
Nitrate as N	mg/L	---	27	20	21.6	16.4	---	18.3	4.35	4.34
Oxidation-Reduction Potential (field)	mV	238.4	***	210.6	111.4	154.2	---	219.8	119.1	126.7
pH (laboratory)	S.U.	7.82	7.98	7.64	8.14	7.84	---	7.53	7.7	8.13
pH (field)	S.U.	7.6	***	7.74	7.64	7.87	---	7.57	7.69	7.32
Potassium	mg/L	14.3	8.13	8.26	7.82	9.42	---	8.43	5.37	4.95
Sodium	mg/L	443	654	580	709	772	---	716	299	477
Specific Conductance (laboratory)	umhos/cm	---	4150	3630	4030	3700	---	4080	1740	2250
Specific Conductance (field)	umhos/cm	2939	***	3612	3240	3489	---	3035	1697	2106
Sulfate	mg/L	1050	1260	1300	1160	1070	---	1100	438	525
Sulfide	mg/L	4	<1.00	<1.00	<1.00	<1.00	---	2.08	<1.70	<1.70
Temperature (field)	°C	20.2	***	18.9	21.1	15.8	---	20.2	19.7	19.7
Total Dissolved Solids	mg/L	1900	2630	2660	2830	2420	---	2420	1330	2320
Turbidity (field)	NTU	692	***	>1,000	>1000	>1000	---	>1000	>1000	>1000
Filtered Turbidity (field)	NTU	0.4	***	0.54	2.13	6.74	---	3.32	1.4	1.04

Notes:

1. mg/L : milligrams per liter.
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5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
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**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-4B	CM-4B	CM-4B	CM-4B	CM-4B		CM-4B	CM-4B	CM-4B
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	26-Sep-23
Total Alkalinity as CaCO3	mg/L	436	520	448	589	565	---	587	580	582
Carbonate Alkalinity as CaCO3	mg/L	15.7	24.5	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	420	495	448	589	565	---	583	580	582
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	3.14	4.31	3.63	3.79	4.90	---	4.89	5.25	4.59
Calcium	mg/L	56.5	47.1	42.1	79.1	56.2	---	86.1	55.2	60.8
Chloride	mg/L	69.9	95.3	119	113	112	---	109	51	89
Dissolved Oxygen (field)	mg/L	2.88	***	5.52	7.70	2.87	---	5.19	6.59	5.03
Fluoride	mg/L	1.01	1.07	1.4	1.05	0.944	---	1.23	0.53	1.01
Iron, Total	mg/L	4.25	1.27	2.19	13.0	1.15	---	8.11	0.503	0.247 J
Iron, Dissolved	mg/L	0.0123 J	1.56	0.0156 J	0.0134 J	0.0421 J	---	0.459	<0.0120	<0.0120
Iron, Ferric	mg/L	---	---	1.03	11.4	1.02	---	1.95	0.503	0.247
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	<0.0200	---	0.0416 J	<0.0200	<0.0200
Iron, Ferrous	mg/L	19.2	5.17	1.16	1.64	0.134	---	6.16	<0.0200	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	0.406	<0.0200 H	0.0750	---	0.0430 J	<0.0200	<0.0200
Magnesium	mg/L	14	12.1	13	17.8	17.5	---	19.5	17.4	18.8
Molybdenum, Total	mg/L	0.0307	0.0306	0.0303	0.0131	0.0184	---	0.00771	0.0123	0.0105
Molybdenum, Dissolved	mg/L	0.0354	0.0271	0.0344	0.0235	0.0194	---	0.0147	0.0122	0.39
Nitrate as N	mg/L	---	7.22	17.8	22.2	34.0	---	36	19	34.5
Oxidation-Reduction Potential (field)	mV	292.1	***	214.4	63.6	154.2	---	247	108.6	112.8
pH (laboratory)	S.U.	7.78	8.32	7.84	8.04	8.01	---	7.67	7.63	8.08
pH (field)	S.U.	7.45	***	7.89	7.69	7.99	---	7.57	7.56	7.26
Potassium	mg/L	10.2	7.12	7.46	8.42	8.19	---	8.61	8.08	7.96
Sodium	mg/L	529	764	769	865	1140	---	963	1040	941
Specific Conductance (laboratory)	umhos/cm	---	4260	4160	4400	4710	---	5260	4680	4680
Specific Conductance (field)	umhos/cm	3331	***	4107	3801	4207	---	3917	4371	4356
Sulfate	mg/L	1360	1460	1620	1590	1500	---	1560	716	1670
Sulfide	mg/L	5	<1.00	<1.00	<1.00	<1.00	---	5.68	<1.70	<1.70
Temperature (field)	°C	20.7	***	19.2	21.2	16.7	---	20.7	20.1	22.5
Total Dissolved Solids	mg/L	2240	2750	3040	2980	3310	---	3240	4050	3690
Turbidity (field)	NTU	158	***	>1,000	>1000	>1000	---	>1000	>1000	>1000
Filtered Turbidity (field)	NTU	---	***	0.5	1.92	1.20	---	30.2	2.01	1.2

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
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5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
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ATTACHMENT C
 TABULATION OF DATA
 SEMI-ANNUAL CMA SAMPLING
 WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-5A	CM-5A	CM-5A	CM-5A	CM-5A		CM-5A	CM-5A	CM-5A
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE)	(RESAMPLE)	Jun-22	4-Oct-22	11-Apr-23
Total Alkalinity as CaCO3	mg/L	451	541	445	538	515	---	498	505	512
Carbonate Alkalinity as CaCO3	mg/L	7.91	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	443	541	445	538	515	---	498	505	512
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	3.92	4.67	4.97	4.57	6.34	---	5.44	6.16	4.63
Calcium	mg/L	102	86.7	102	143	170	---	135	131	71.6
Chloride	mg/L	93.9	130	154	134	115	---	109	101	95.4
Dissolved Oxygen (field)	mg/L	3.81	***	3.36	6.35	3.21	---	5.33	3.65	3.66
Fluoride	mg/L	1.09	0.602	0.667	0.682	0.852	---	0.748	0.807	0.658
Iron, Total	mg/L	28.4	5.43	3.27	13.6	22.3	---	12.3	16.1	4.44
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0799 J	<0.0120	0.876	---	0.150 J	0.0420 J	<0.0120
Iron, Ferric	mg/L	---	---	1.21	10.9	20.8	---	5.64	12.30	3.24
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	0.876	---	0.111	0.0420 J	<0.0200
Iron, Ferrous	mg/L	0.561	4.63	2.06	2.72	1.45	---	6.66	3.84	1.2
Iron, Ferrous, Dissolved	mg/L	---	---	0.673	<0.0200 H	<0.0200	---	0.0390 J	<0.0200	<0.0200
Magnesium	mg/L	15.8	18.4	26	29.9	27.8	---	23.8	20.9	17.6
Molybdenum, Total	mg/L	0.0205	0.011	0.0182	0.00580	0.00351 J	---	0.00317 J	0.00276 J	0.00455 J
Molybdenum, Dissolved	mg/L	0.0352	0.0214	0.0192	0.0165	0.0129	---	0.0105	0.00855	0.00755
Nitrate as N	mg/L	---	27.4	27.2	24.4	20.2	---	18.6	8.85	5.93
Oxidation-Reduction Potential (field)	mV	270.1	***	217.6	126.0	123.3	---	223.9	142.7	139.1
pH (laboratory)	S.U.	7.7	7.96	7.46	7.75	7.92	---	7.67	7.6	7.88
pH (field)	S.U.	7.4	***	7.35	7.49	7.76	---	7.49	7.51	6.85
Potassium	mg/L	13.3	8.41	10.4	11.5	11.1	---	9.73	9.91	7.68
Sodium	mg/L	448	632	761	749	791	---	746	804	643
Specific Conductance (laboratory)	umhos/cm	---	4180	4180	4130	3980	---	4190	3520	3440
Specific Conductance (field)	umhos/cm	2617	***	4132	3626	3736	---	3167	3316	3275
Sulfate	mg/L	808	1290	1540	1480	1250	---	1200	1210	1140
Sulfide	mg/L	<1.00	1.36	1.36	<1.00	<1.00	---	25.2	<1.70	<1.70
Temperature (field)	°C	22.5	***	19.2	21.0	15.8	---	20.2	19.5	21.2
Total Dissolved Solids	mg/L	1840	2680	3260	2900	2620	---	2650	2870	2130
Turbidity (field)	NTU	204	***	>1,000	>1000	>1000	---	>1000	>1000	467
Filtered Turbidity (field)	NTU	0.61	***	0.86	36.8	4.77	---	2.28	1.53	2.03

Notes:

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**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING						
		CM-5B	CM-5B	CM-5B	CM-5B	CM-5B		CM-5B	CM-5B	CM-5B
		24-Jul-20	9-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE)	(RESAMPLE)	4-Oct-22	11-Apr-23	27-Sep-23
Total Alkalinity as CaCO3	mg/L	421	525	486	613	594	---	586	582	586
Carbonate Alkalinity as CaCO3	mg/L	22.6	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	398	520	486	613	594	---	586	582	586
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---	<5.00	<5.00	<5.00
Boron	mg/L	3.8	4.42	3.86	4.37	5.91	---	4.3	6.08	4.76
Calcium	mg/L	115	56.4	46	56.8	59.8	---	92.7	90.1	69.9
Chloride	mg/L	107	113	145	141	147	---	134	129	114
Dissolved Oxygen (field)	mg/L	3.35	***	4.46	3.41	5.38	---	4.66	4.52	***
Fluoride	mg/L	0.636	0.786	1.15	0.925	0.838	---	1.1	1.09	0.904
Iron, Total	mg/L	32.3	1.26	1.73	3.61	0.0358 J	---	9.04	5.47	3.17
Iron, Dissolved	mg/L	0.0246 J	1.87	0.214 J	<0.0120	3.16	---	0.0653 J	<0.012	0.0168 J
Iron, Ferric	mg/L	---	---	0.47	2.97	<0.0200	---	0.08	5.47	2.62
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	3.16	---	0.0333 J	<0.0200	<0.0200
Iron, Ferrous	mg/L	0.671	10.6	1.26	0.641	2.30	---	8.96	<0.0200	0.545
Iron, Ferrous, Dissolved	mg/L	---	---	0.206	<0.0200 H	<0.0200	---	0.0320 J	<0.0200	<0.02
Magnesium	mg/L	22	15.8	14	18.8	19.5	---	20.3	21.1	20.4
Molybdenum, Total	mg/L	0.04	0.0394	0.0536	0.0448	0.0361	---	0.0102	0.0126	0.00871
Molybdenum, Dissolved	mg/L	0.0515	0.0359	0.0594	0.0418	0.0294	---	0.0233	0.0232	0.0124
Nitrate as N	mg/L	---	25.8	58.0 H	59.8	66.7	---	76.7	89.3	91.7
Oxidation-Reduction Potential (field)	mV	229	***	224.2	50.8	27.2	---	183.4	109.2	***
pH (laboratory)	S.U.	7.94	7.84	7.67	7.92	7.82	---	7.6	7.6	8.02
pH (field)	S.U.	7.53	***	7.8	7.56	7.72	---	7.44	7.51	***
Potassium	mg/L	15.2	7.73	8	10.1	8.55	---	8.45	9.88	8.22
Sodium	mg/L	587	762	671	836	986	---	718	1000	900
Specific Conductance (laboratory)	umhos/cm	---	4570	4130	4250	4450	---	5030	4470	4550
Specific Conductance (field)	umhos/cm	3617	***	3914	3673	4126	---	3900	4245	***
Sulfate	mg/L	1470	1430	1330	1310	1170	---	1230	1330	1350
Sulfide	mg/L	8	6.4	<1.00	1.28	39.8	---	<1.00	<1.70	<1.70
Temperature (field)	°C	21.7	***	18.8	21.0	15.5	---	21.7	21.6	***
Total Dissolved Solids	mg/L	2570	2910	3120	2910	3060	---	3160	3360	3490
Turbidity (field)	NTU	616	***	>1,000	>1000	>1000	---	>1000	>1000	>1000
Filtered Turbidity (field)	NTU	0.25	***	12.1	0.93	3.56	---	8.42	2.52	1.25

Notes:

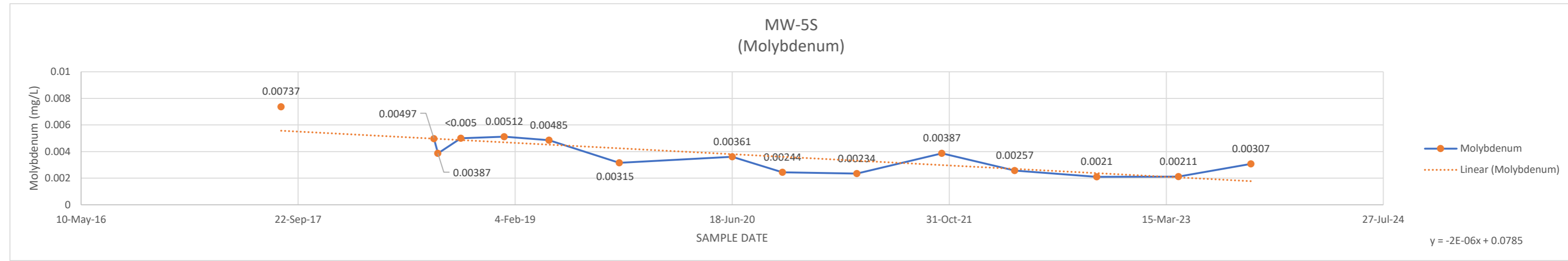
1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
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ATTACHMENT D

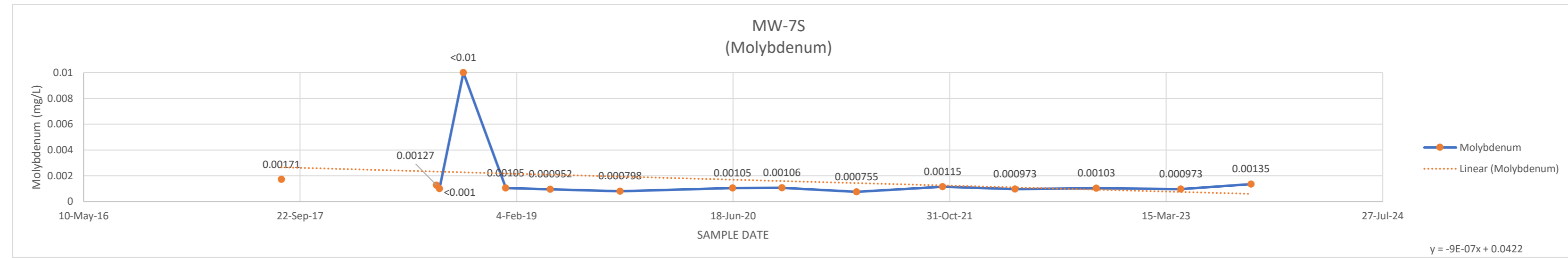
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

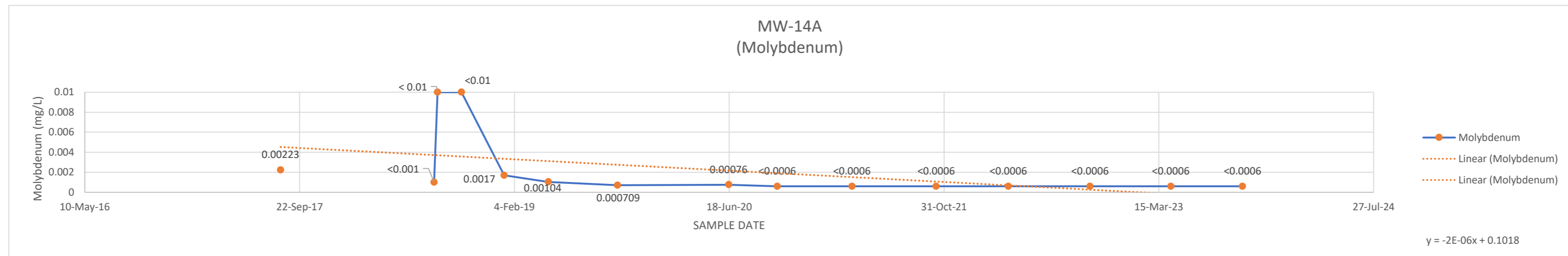
MW-5S	DATE	MOLYBDENUM
	14-Aug-17	0.00737
	22-May-18	0.00387
	1-Aug-18	0.00497
	10-Aug-18	0.00387
	2-Oct-18	0.005
	10-Jan-19	0.00512
	23-Apr-19	0.00485
	2-Oct-19	0.00315
	18-Jun-20	0.00361
	12-Oct-20	0.00244
	1-Apr-21	0.00234
	14-Oct-21	0.00387
	31-Mar-22	0.00257
	6-Oct-22	0.0021
	12-Apr-23	0.00211
	26-Sep-23	0.00307



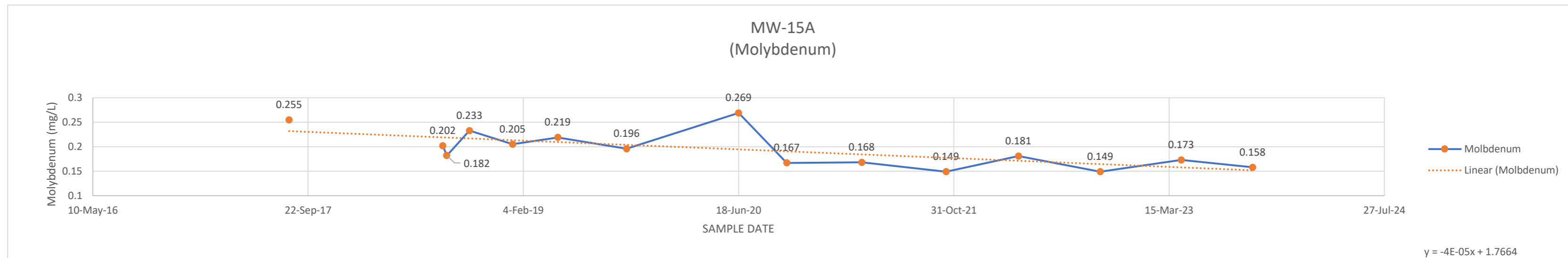
MW-7S	DATE	MOLYBDENUM
	10-Aug-17	0.00171
	17-May-18	0.00127
	3-Aug-18	0.00127
	10-Aug-18	0.001
	4-Oct-18	0.01
	10-Jan-19	0.00105
	23-Apr-19	0.000952
	1-Oct-19	0.000798
	17-Jun-20	0.00105
	9-Oct-20	0.00106
	30-Mar-21	0.000755
	15-Oct-21	0.00115
	31-Mar-22	0.000973
	5-Oct-22	0.00103
	18-Apr-23	0.000973
	27-Sep-23	0.00135



MW-14A	DATE	MOLYBDENUM
	9-Aug-17	0.00223
	17-May-18	0.001
	1-Aug-18	0.01
	9-Aug-18	0.01
	4-Oct-18	0.01
	11-Jan-19	0.0017
	24-Apr-19	0.00104
	2-Oct-19	0.000709
	17-Jun-20	0.00076
	8-Oct-20	0.0006
	31-Mar-21	0.0006
	13-Oct-21	0.0006
	30-Mar-22	0.0006
	6-Oct-22	0.0006
	12-Apr-23	0.0006
	26-Sep-23	0.0006

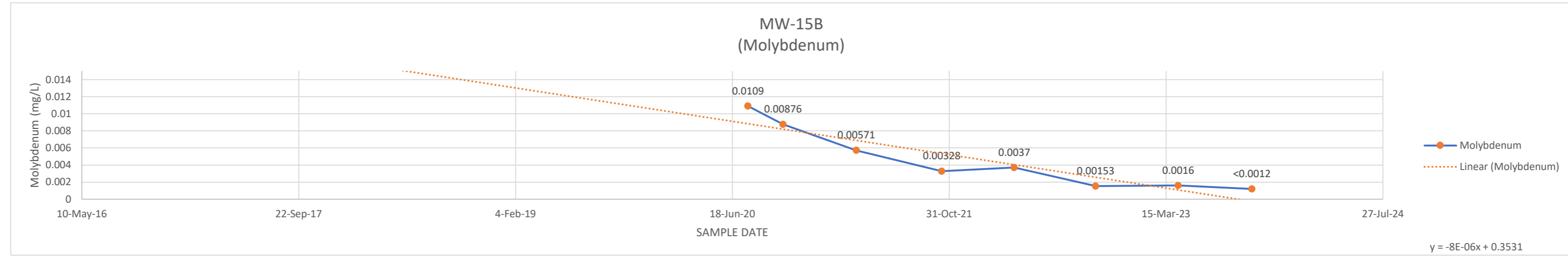


MW-15A	DATE	MOLYBDENUM
	9-Aug-17	0.255
	24-May-18	0.202
	1-Aug-18	0.182
	10-Aug-18	0.233
	2-Oct-18	0.233
	10-Jan-19	0.205
	25-Apr-19	0.219
	2-Oct-19	0.196
	18-Jun-20	0.269
	8-Oct-20	0.167
	31-Mar-21	0.168
	13-Oct-21	0.149
	30-Mar-22	0.181
	6-Oct-22	0.149
	12-Apr-23	0.173
	25-Sep-23	0.158

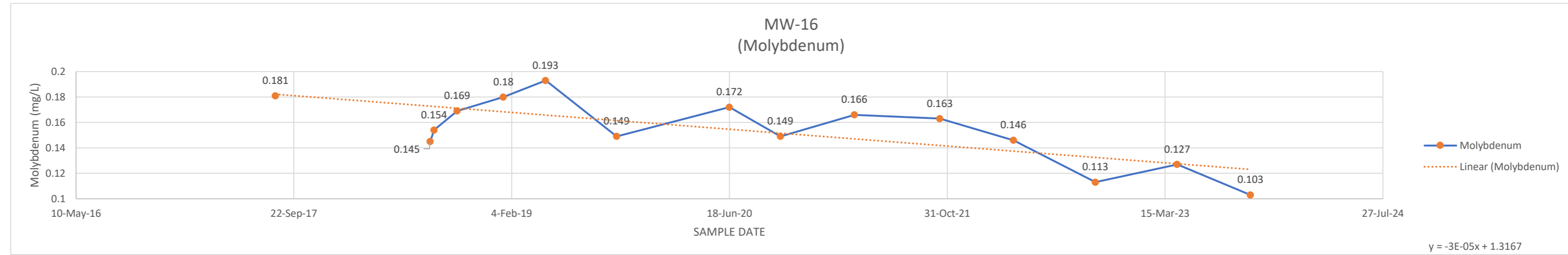


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

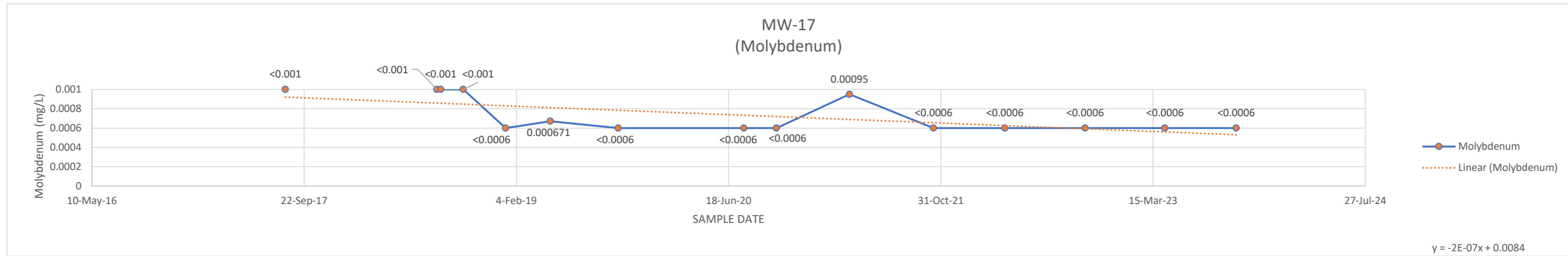
MW-15B	MOLYBDENUM
DATE	
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0109
13-Oct-20	0.00876
31-Mar-21	0.00571
14-Oct-21	0.00328
30-Mar-22	0.0037
4-Oct-22	0.00153
12-Apr-23	0.0016
29-Sep-23	0.0012



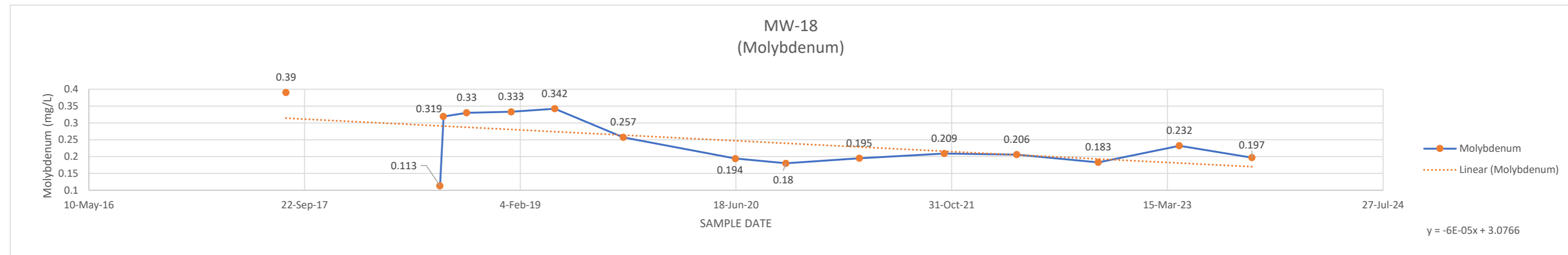
MW-16	MOLYBDENUM
DATE	
11-Aug-17	0.181
22-May-18	
1-Aug-18	0.145
10-Aug-18	0.154
2-Oct-18	0.169
16-Jan-19	0.18
23-Apr-19	0.193
3-Oct-19	0.149
18-Jun-20	0.172
13-Oct-20	0.149
1-Apr-21	0.166
14-Oct-21	0.163
1-Apr-22	0.146
6-Oct-22	0.113
12-Apr-23	0.127
27-Sep-23	0.103



MW-17	MOLYBDENUM
DATE	
9-Aug-17	0.001
24-May-18	
1-Aug-18	0.001
10-Aug-18	0.001
2-Oct-18	0.001
10-Jan-19	0.0006
25-Apr-19	0.000671
2-Oct-19	0.0006
24-Jul-20	0.0006
9-Oct-20	0.0006
30-Mar-21	0.00095
14-Oct-21	0.0006
31-Mar-22	0.0006
6-Oct-22	0.0006
12-Apr-23	0.0006
27-Sep-23	0.0006

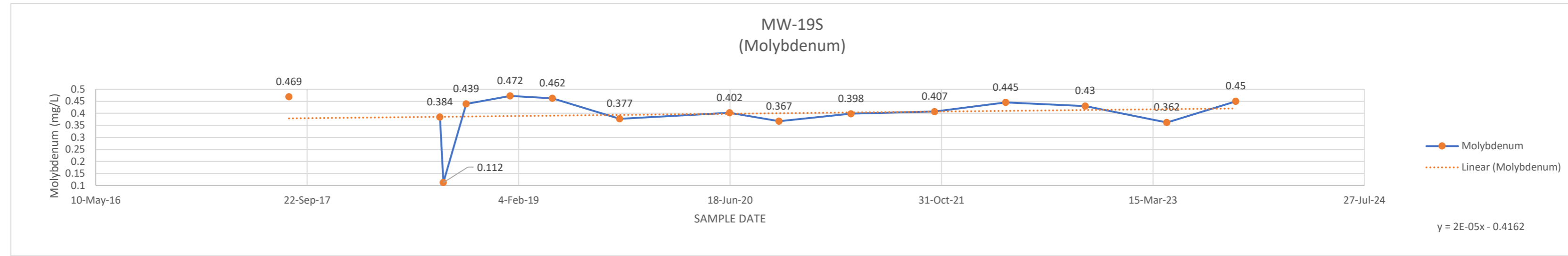


MW-18	MOLYBDENUM
DATE	
10-Aug-17	0.39
18-May-18	
2-Aug-18	0.113
10-Aug-18	0.319
3-Oct-18	0.33
14-Jan-19	0.333
25-Apr-19	0.342
1-Oct-19	0.257
17-Jun-20	0.194
12-Oct-20	0.18
31-Mar-21	0.195
14-Oct-21	0.209
31-Mar-22	0.206
6-Oct-22	0.183
12-Apr-23	0.232
27-Sep-23	0.197

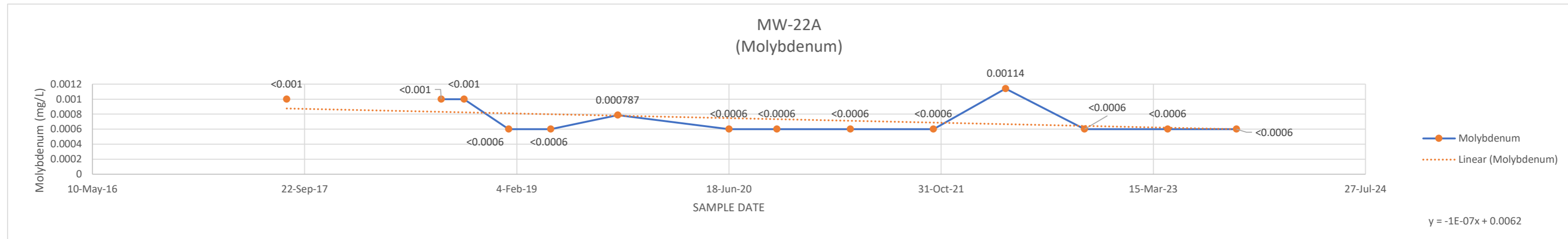


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

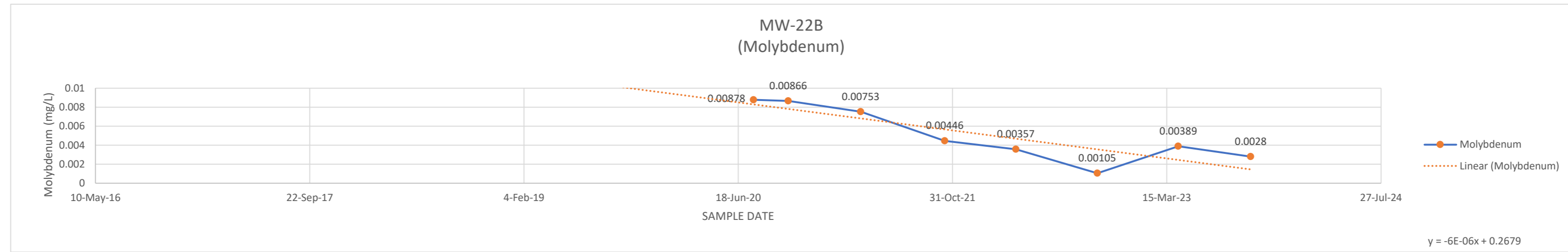
MW-19S	MOLYBDENUM
DATE	
10-Aug-17	0.469
18-May-18	
2-Aug-18	0.384
10-Aug-18	0.112
3-Oct-18	0.439
15-Jan-19	0.472
25-Apr-19	0.462
1-Oct-19	0.377
17-Jun-20	0.402
12-Oct-20	0.367
31-Mar-21	0.398
15-Oct-21	0.407
1-Apr-22	0.445
6-Oct-22	0.43
17-Apr-23	0.362
27-Sep-23	0.45



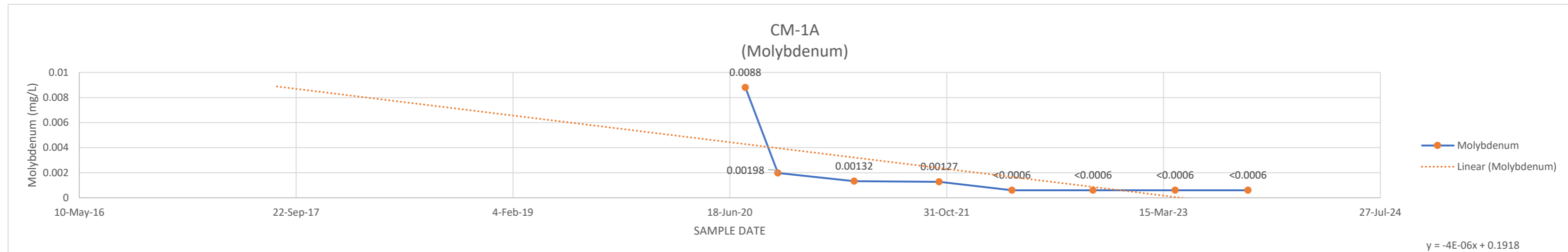
MW-22A	MOLYBDENUM
DATE	
11-Aug-17	0.001
22-May-18	
10-Aug-18	0.001
3-Oct-18	0.001
16-Jan-19	0.0006
25-Apr-19	0.0006
30-Sep-19	0.000787
18-Jun-20	0.0006
9-Oct-20	0.0006
31-Mar-21	0.0006
13-Oct-21	0.0006
1-Apr-22	0.00114
4-Oct-22	0.0006
18-Apr-23	0.0006
27-Sep-23	0.0006



MW-22B	MOLYBDENUM
DATE	
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.00878
13-Oct-20	0.00866
31-Mar-21	0.00753
13-Oct-21	0.00446
28-Mar-22	0.00357
4-Oct-22	0.00105
11-Apr-23	0.00389
27-Sep-23	0.0028

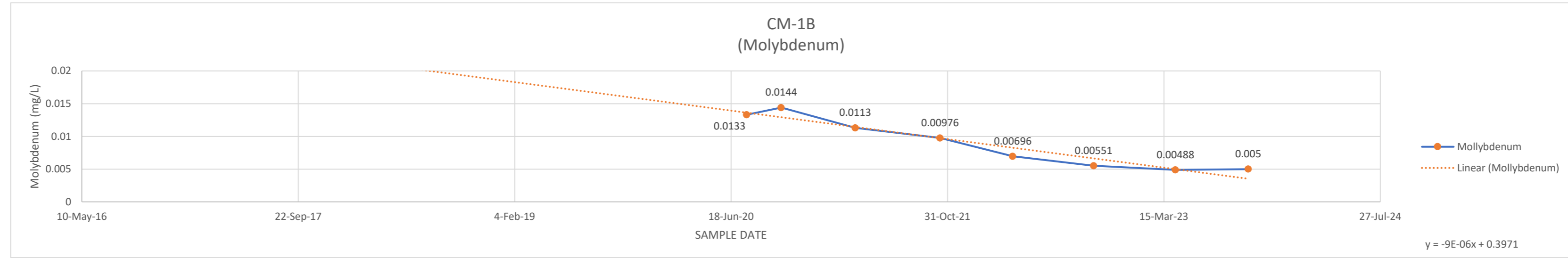


CM-1A	MOLYBDENUM
DATE	
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0088
7-Oct-20	0.00198
1-Apr-21	0.00132
14-Oct-21	0.00127
31-Mar-22	0.0006
4-Oct-22	0.0006
11-Apr-23	0.0006
26-Sep-23	0.0006

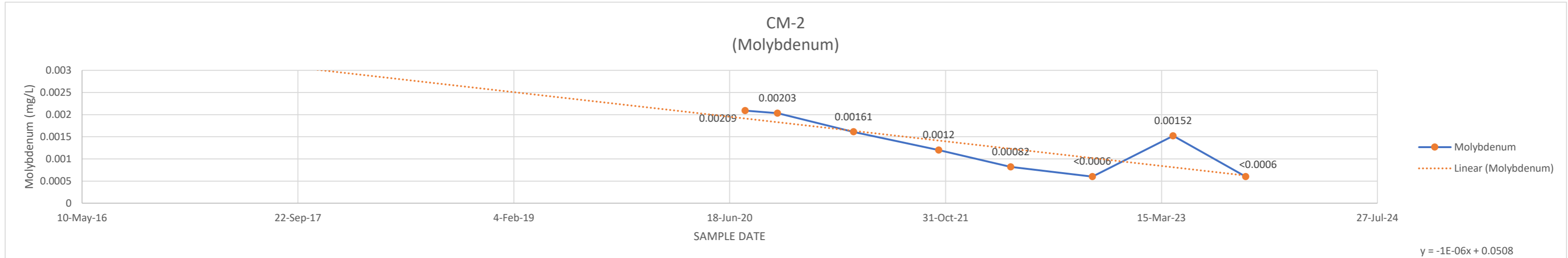


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

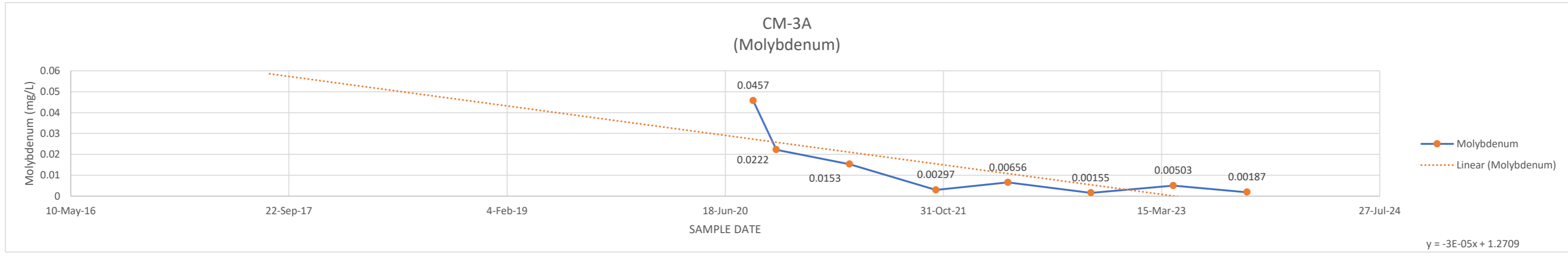
CM-1B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0133
12-Oct-20	0.0144
1-Apr-21	0.0113
14-Oct-21	0.00976
31-Mar-22	0.00696
4-Oct-22	0.00551
11-Apr-23	0.00488
26-Sep-23	0.005



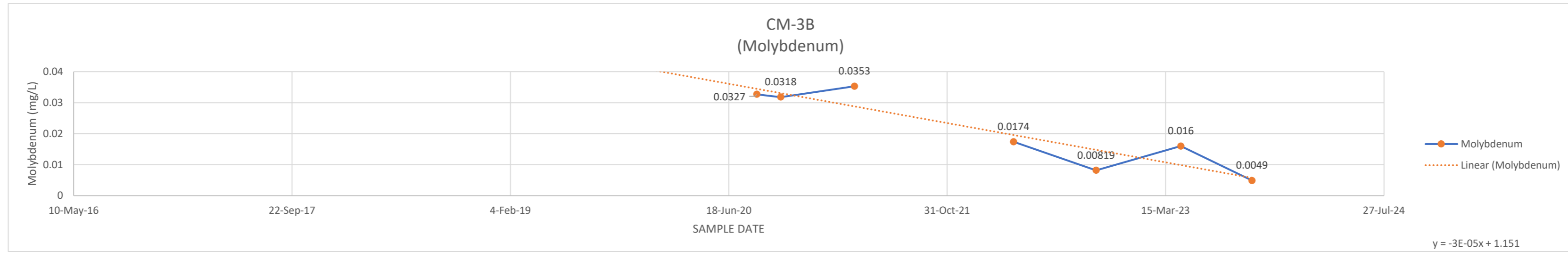
CM-2 DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.00209
7-Oct-20	0.00203
1-Apr-21	0.00161
15-Oct-21	0.0012
31-Mar-22	0.00082
6-Oct-22	0.0006
11-Apr-23	0.00152
26-Sep-23	0.0006



CM-3A DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
21-Aug-20	0.0457
13-Oct-20	0.0222
30-Mar-21	0.0153
14-Oct-21	0.00297
28-Mar-22	0.00656
4-Oct-22	0.00155
11-Apr-23	0.00503
27-Sep-23	0.00187

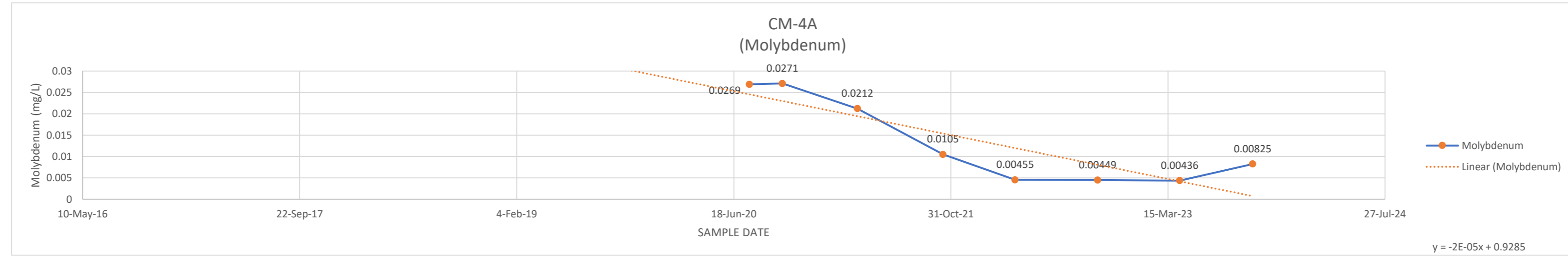


CM-3B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
21-Aug-20	0.0327
15-Oct-20	0.0318
2-Apr-21	0.0353
11-Oct-21	
1-Apr-22	0.0174
7-Oct-22	0.00819
19-Apr-23	0.016
29-Sep-23	0.0049

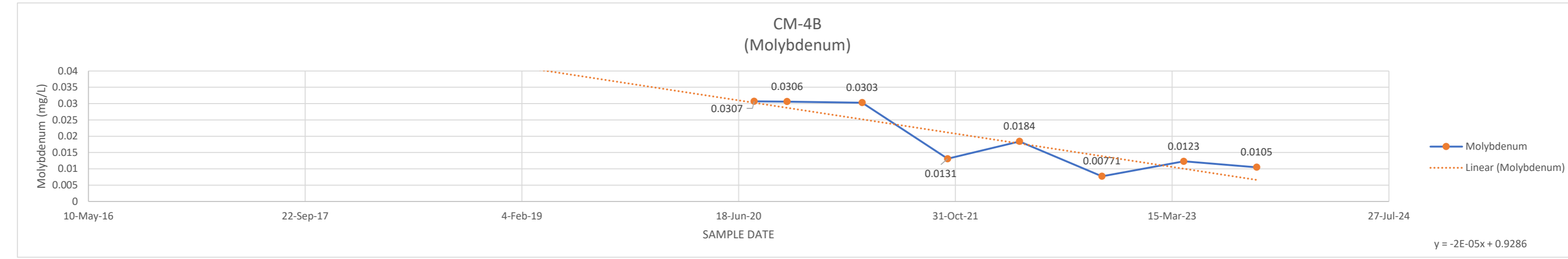


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

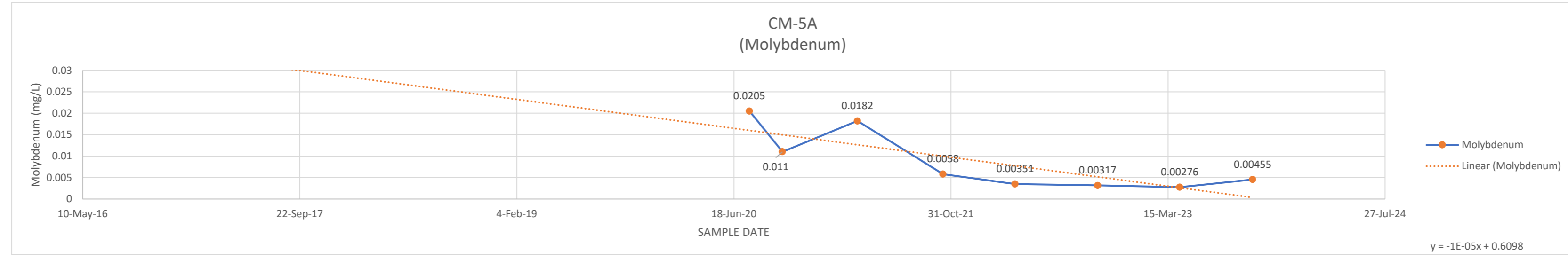
CM-4A DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0269
8-Oct-20	0.0271
30-Mar-21	0.0212
13-Oct-21	0.0105
28-Mar-22	0.00455
4-Oct-22	0.00449
11-Apr-23	0.00436
26-Sep-23	0.00825



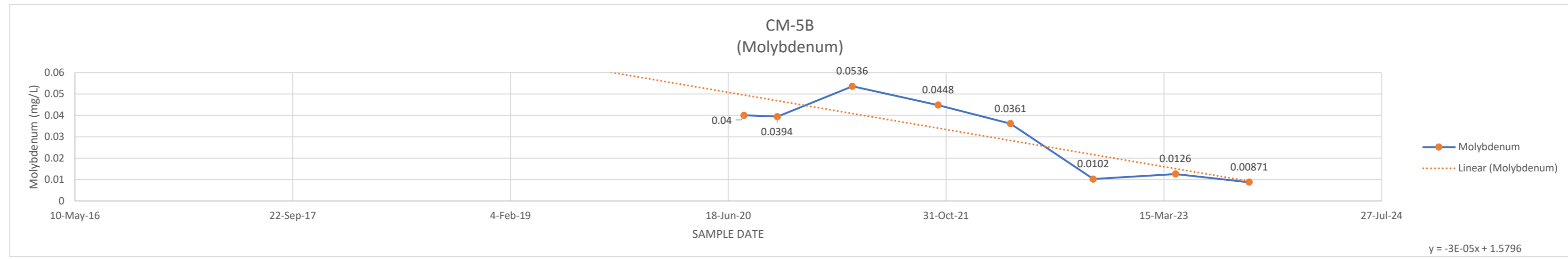
CM-4B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0307
8-Oct-20	0.0306
30-Mar-21	0.0303
13-Oct-21	0.0131
28-Mar-22	0.0184
4-Oct-22	0.00771
11-Apr-23	0.0123
26-Sep-23	0.0105



CM-5A DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0205
8-Oct-20	0.011
30-Mar-21	0.0182
13-Oct-21	0.0058
28-Mar-22	0.00351
4-Oct-22	0.00317
11-Apr-23	0.00276
26-Sep-23	0.00455



CM-5B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.04
9-Oct-20	0.0394
30-Mar-21	0.0536
13-Oct-21	0.0448
28-Mar-22	0.0361
4-Oct-22	0.0102
11-Apr-23	0.0126
27-Sep-23	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT E

COMPARISON OF CHANGES IN MEAN CONCENTRATION FOR MOLOYBDENUM

ATTACHMENT E
COMPARISON OF CHANGES IN MEAN CONCENTRATION FOR MOLYBDENUM

	MEAN MOLYBDENUM CONCENTRATION (ENTIRE SAMPLING HISTORY)	MEAN MOLYBDENUM CONCENTRATION (EXCEPT LAST FOUR) ^{1,2}	MEAN MOLYBDENUM CONCENTRATION (LAST FOUR) ³	PERCENT DIFFERENCE ⁴
MW-5S	0.00376	0.00424	0.00246	-41.86
MW-7S	0.00168	0.00189	0.00108	-42.79
MW-14A	0.00211	0.00266	0.00060	-77.43
MW-15A	0.19373	0.20409	0.16525	-19.03
MW-15B	0.00459	0.00716	0.00201	-71.97
MW-16	0.15400	0.16555	0.12225	-26.15
MW-17	0.00074	0.00078	0.00060	-23.44
MW-18	0.24533	0.26018	0.20450	-21.40
MW-19S	0.39840	0.38991	0.42175	8.17
MW-22A	0.00074	0.00074	0.00074	-0.50
MW-22B	0.00509	0.00736	0.00283	-61.57
CM-1A	0.00197	0.00334	0.00060	-82.05
CM-1B	0.00889	0.01219	0.00559	-54.16
CM-2	0.00131	0.00173	0.00089	-48.92
CM-3A	0.01265	0.02154	0.00375	-82.58
CM-3B	0.02090	0.03327	0.01162	-65.06
CM-4A	0.01342	0.02143	0.00541	-74.74
CM-4B	0.01851	0.02618	0.01085	-58.54
CM-5A	0.00869	0.01388	0.00350	-74.79
CM-5B	0.03068	0.04445	0.01690	-61.97

1) Mean Molybdenum Concentration (Except Last Four) is based on sampling conducted from August 2017 through October 2021. It is based on eleven sampling events for MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, and MW-19S. It is based on ten sampling events for MW-22A.

2) MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B were not sampled for Molybdenum until June/July 2020. Mean Molybdenum Concentration (Except Last Four) for these is based on four sampling events (June/July 2020 and October 2021).

3) Mean Molybdenum Concentration (Last Four) for all wells is based on four sampling events conducted from March 2022 through September 2023.

4) Percent difference is the difference between Mean Molybdenum Concentration (Except Last Four) and the Mean Molybdenum Concentration (Last Four). A negative percent difference represents a decrease in Mean Molybdenum concentration from the last four sampling events over the Mean Molybdenum concentration from all previous sampling.

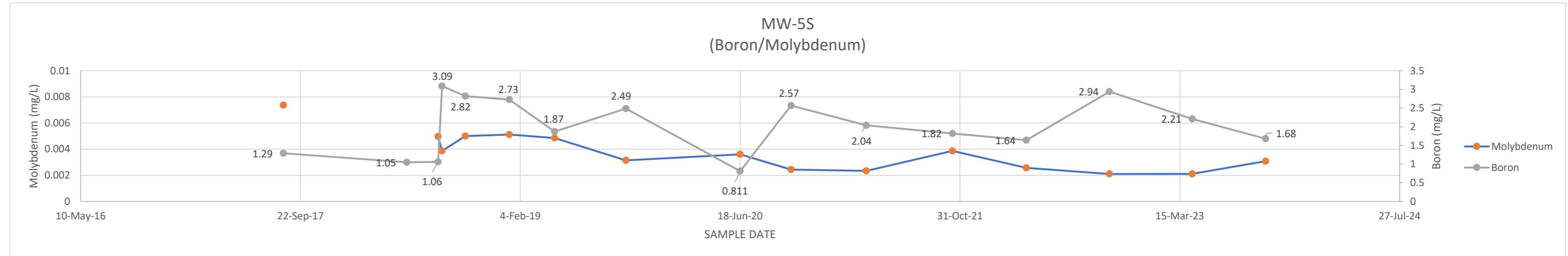
ATTACHMENT F

CHANGES IN CONCENTRATION OF CCR APPENDIX III PARAMETERS COMPARED TO CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

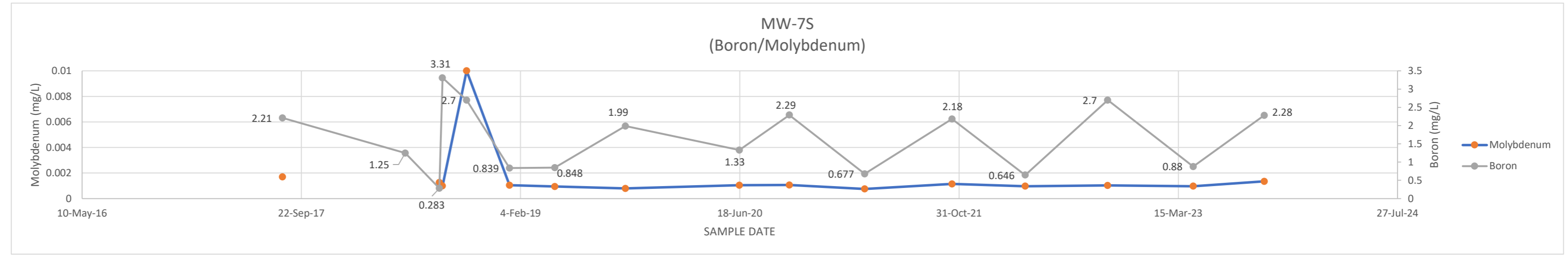
- F-1: CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS
- F-2: CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS
- F-3A: CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS
- F-3B: CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS
- F-4: CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS
- F-5: CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS
- F-6: CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS
- F-7: CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

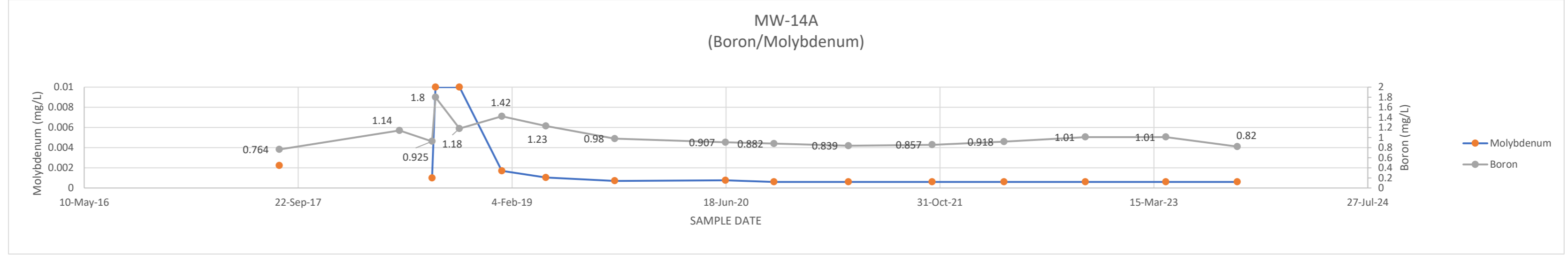
MW-5S DATE	BORON	MOLYBDENUM
14-Aug-17	1.29	0.00737
22-May-18	1.05	
1-Aug-18	1.06	0.00497
10-Aug-18	3.09	0.00387
2-Oct-18	2.82	0.005
10-Jan-19	2.73	0.00512
23-Apr-19	1.87	0.00485
2-Oct-19	2.49	0.00315
18-Jun-20	0.811	0.00361
12-Oct-20	2.57	0.00244
1-Apr-21	2.04	0.00234
14-Oct-21	1.82	0.00387
31-Mar-22	1.64	0.00257
6-Oct-22	2.94	0.0021
12-Apr-23	2.21	0.00211
26-Sep-23	1.68	0.00307



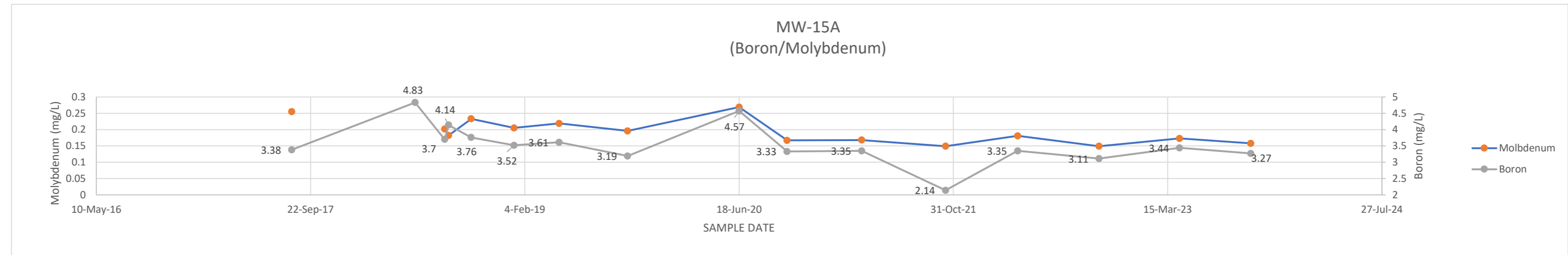
MW-7S DATE	BORON	MOLYBDENUM
10-Aug-17	2.21	0.00171
17-May-18	1.25	
3-Aug-18	0.283	0.00127
10-Aug-18	3.31	0.001
4-Oct-18	2.7	0.01
10-Jan-19	0.839	0.00105
23-Apr-19	0.848	0.000952
1-Oct-19	1.99	0.000798
17-Jun-20	1.33	0.00105
9-Oct-20	2.29	0.00106
30-Mar-21	0.677	0.000755
15-Oct-21	2.18	0.00115
31-Mar-22	0.646	0.000973
5-Oct-22	2.7	0.00103
18-Apr-23	0.88	0.000973
27-Sep-23	2.28	0.00135



MW-14A DATE	BORON	MOLYBDENUM
9-Aug-17	0.764	0.00223
17-May-18	1.14	
1-Aug-18	0.925	0.001
9-Aug-18	1.8	0.01
4-Oct-18	1.18	0.01
11-Jan-19	1.42	0.0017
24-Apr-19	1.23	0.00104
2-Oct-19	0.98	0.000709
17-Jun-20	0.907	0.00076
8-Oct-20	0.882	0.0006
31-Mar-21	0.839	0.0006
13-Oct-21	0.857	0.0006
30-Mar-22	0.918	0.0006
6-Oct-22	1.01	0.0006
12-Apr-23	1.01	0.0006
26-Sep-23	0.82	0.0006

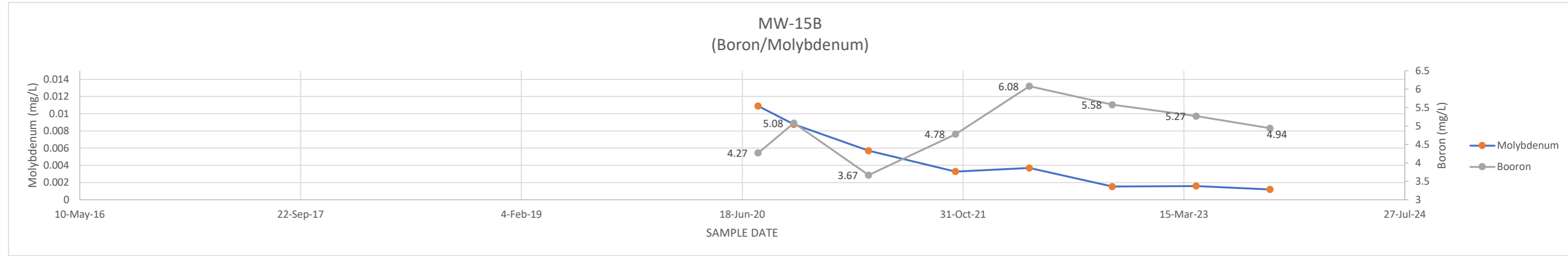


MW-15A DATE	BORON	MOLYBDENUM
9-Aug-17	3.38	0.255
24-May-18	4.83	
1-Aug-18	3.7	0.202
10-Aug-18	4.14	0.182
2-Oct-18	3.76	0.233
10-Jan-19	3.52	0.205
25-Apr-19	3.61	0.219
2-Oct-19	3.19	0.196
18-Jun-20	4.57	0.269
8-Oct-20	3.33	0.167
31-Mar-21	3.35	0.168
13-Oct-21	2.14	0.149
30-Mar-22	3.35	0.181
6-Oct-22	3.11	0.149
12-Apr-23	3.44	0.173
25-Sep-23	3.27	0.158

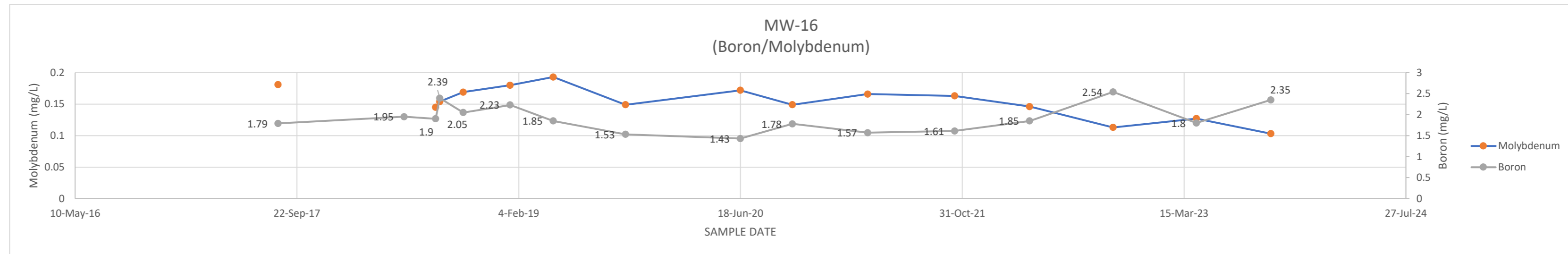


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

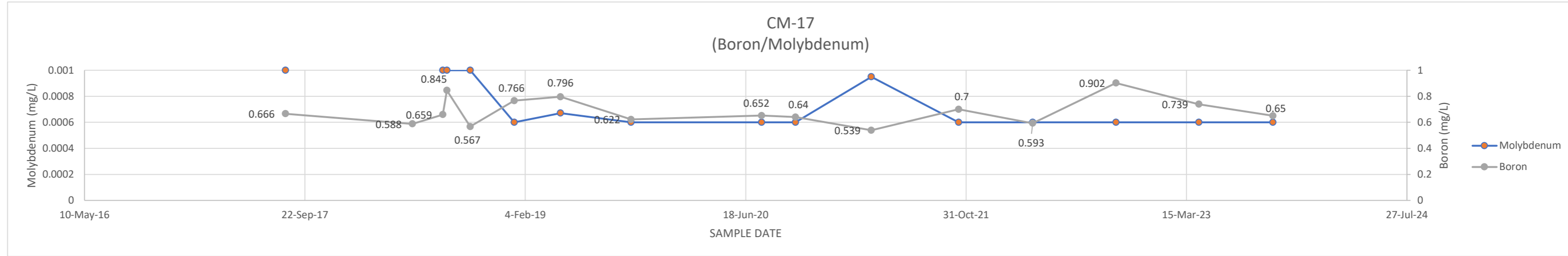
MW-15B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.27	0.0109
13-Oct-20	5.08	0.00876
31-Mar-21	3.67	0.00571
14-Oct-21	4.78	0.00328
30-Mar-22	6.08	0.0037
4-Oct-22	5.58	0.00153
12-Apr-23	5.27	0.0016
26-Sep-23	4.94	0.0012



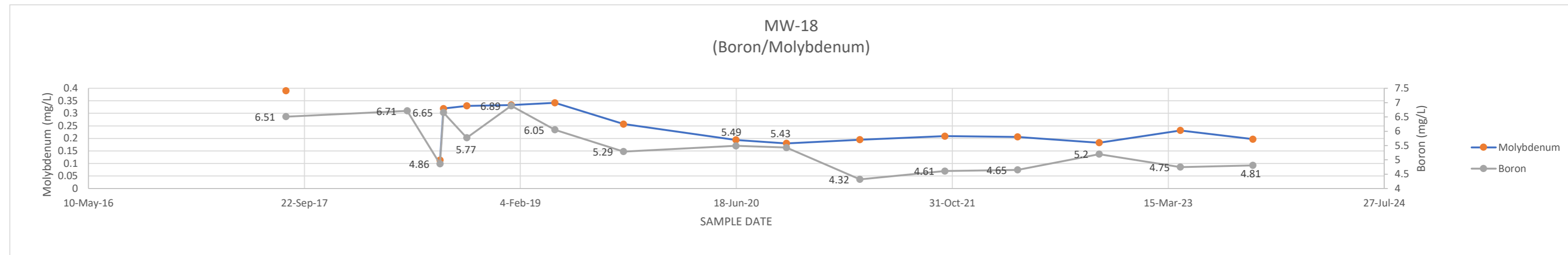
MW-16 DATE	BORON	MOLYBDENUM
11-Aug-17	1.79	0.181
22-May-18	1.95	
1-Aug-18	1.9	0.145
10-Aug-18	2.39	0.154
2-Oct-18	2.05	0.169
16-Jan-19	2.23	0.18
23-Apr-19	1.85	0.193
3-Oct-19	1.53	0.149
18-Jun-20	1.43	0.172
13-Oct-20	1.78	0.149
1-Apr-21	1.57	0.166
14-Oct-21	1.61	0.163
1-Apr-22	1.85	0.146
6-Oct-22	2.54	0.113
12-Apr-23	1.8	0.127
27-Sep-23	2.35	0.103



MW-17 DATE	BORON	MOLYBDENUM
9-Aug-17	0.666	0.001
24-May-18	0.588	
1-Aug-18	0.659	0.001
10-Aug-18	0.845	0.001
2-Oct-18	0.567	0.001
10-Jan-19	0.766	0.0006
25-Apr-19	0.796	0.000671
2-Oct-19	0.622	0.0006
24-Jul-20	0.652	0.0006
9-Oct-20	0.64	0.0006
30-Mar-21	0.539	0.00095
14-Oct-21	0.7	0.0006
31-Mar-22	0.593	0.0006
6-Oct-22	0.902	0.0006
12-Apr-23	0.739	0.0006
27-Sep-23	0.65	0.0006

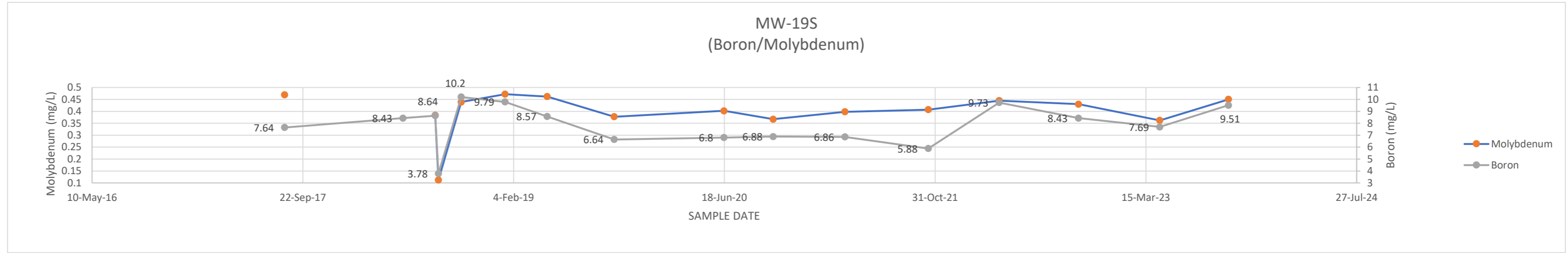


MW-18 DATE	BORON	MOLYBDENUM
10-Aug-17	6.51	0.39
18-May-18	6.71	
2-Aug-18	4.86	0.113
10-Aug-18	6.65	0.319
3-Oct-18	5.77	0.33
14-Jan-19	6.89	0.333
25-Apr-19	6.05	0.342
1-Oct-19	5.29	0.257
17-Jun-20	5.49	0.194
12-Oct-20	5.43	0.18
31-Mar-21	4.32	0.195
14-Oct-21	4.61	0.209
31-Mar-22	4.65	0.206
6-Oct-22	5.2	0.183
12-Apr-23	4.75	0.232
27-Sep-23	4.81	0.197

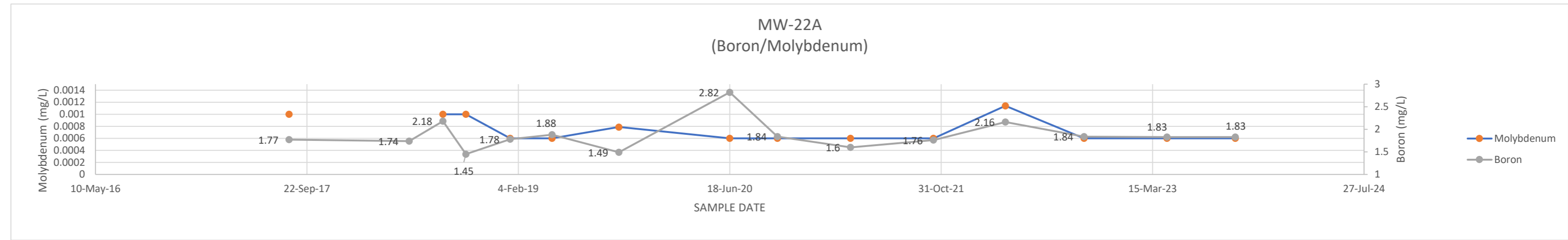


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

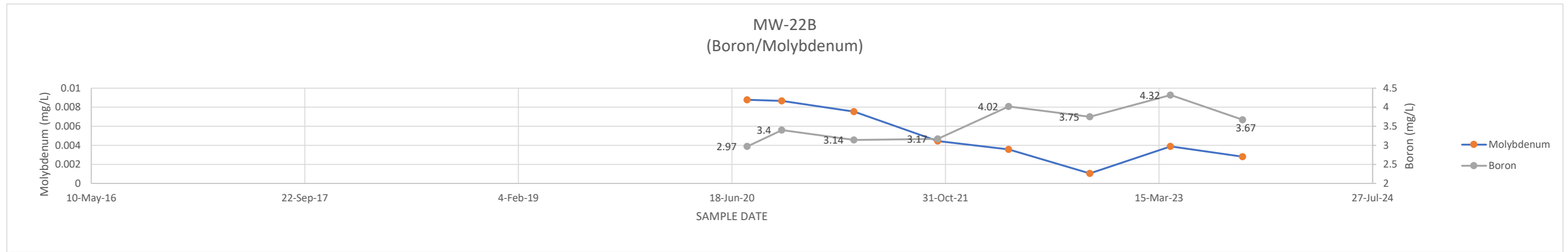
MW-19S DATE	BORON	MOLYBDENUM
10-Aug-17	7.64	0.469
18-May-18	8.43	
2-Aug-18	8.64	0.384
10-Aug-18	3.78	0.112
3-Oct-18	10.2	0.439
15-Jan-19	9.79	0.472
25-Apr-19	8.57	0.462
1-Oct-19	6.64	0.377
17-Jun-20	6.8	0.402
12-Oct-20	6.88	0.367
31-Mar-21	6.86	0.398
15-Oct-21	5.88	0.407
1-Apr-22	9.73	0.445
6-Oct-22	8.43	0.43
17-Apr-23	7.69	0.362
27-Sep-23	9.51	0.45



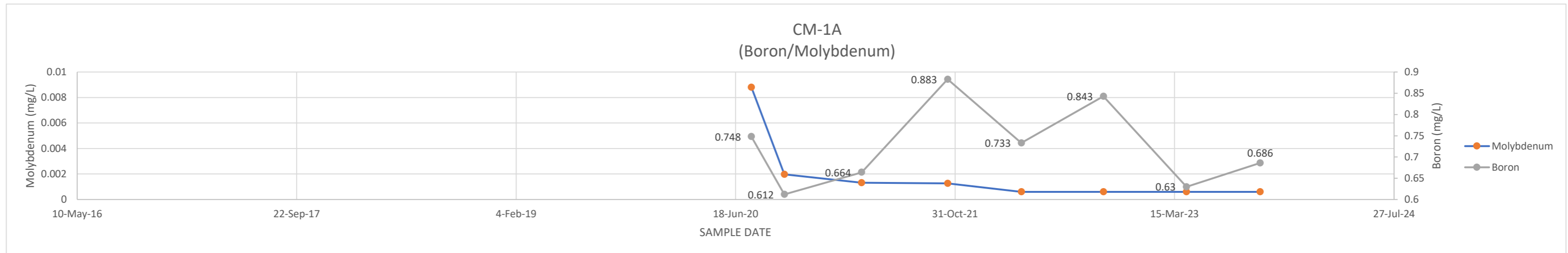
MW-22A DATE	BORON	MOLYBDENUM
11-Aug-17	1.77	0.001
22-May-18	1.74	
10-Aug-18	2.18	0.001
3-Oct-18	1.45	0.001
16-Jan-19	1.78	0.0006
25-Apr-19	1.88	0.0006
30-Sep-19	1.49	0.000787
18-Jun-20	2.82	0.0006
9-Oct-20	1.84	0.0006
31-Mar-21	1.6	0.0006
13-Oct-21	1.76	0.0006
1-Apr-22	2.16	0.00114
4-Oct-22	1.84	0.0006
18-Apr-23	1.83	0.0006
27-Sep-23	1.83	0.0006



MW-22B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.97	0.00878
13-Oct-20	3.4	0.00866
31-Mar-21	3.14	0.00753
13-Oct-21	3.17	0.00446
28-Mar-22	4.02	0.00357
4-Oct-22	3.75	0.00105
11-Apr-23	4.32	0.00389
27-Sep-23	3.67	0.0028

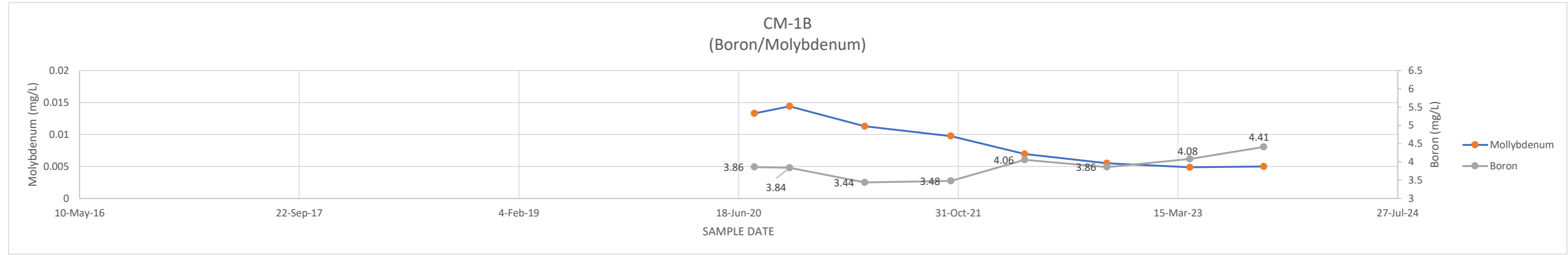


CM-1A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.748	0.0088
7-Oct-20	0.612	0.00198
1-Apr-21	0.664	0.00132
14-Oct-21	0.883	0.00127
31-Mar-22	0.733	0.0006
4-Oct-22	0.843	0.0006
11-Apr-23	0.63	0.0006
26-Sep-23	0.686	0.0006

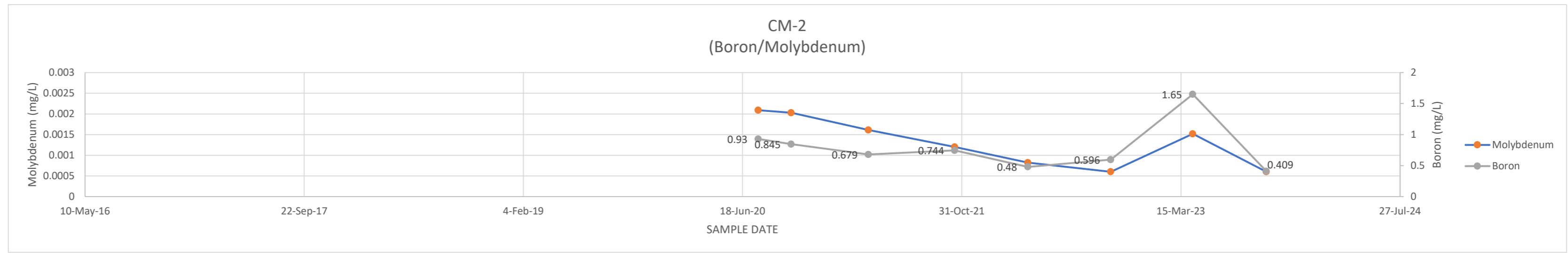


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

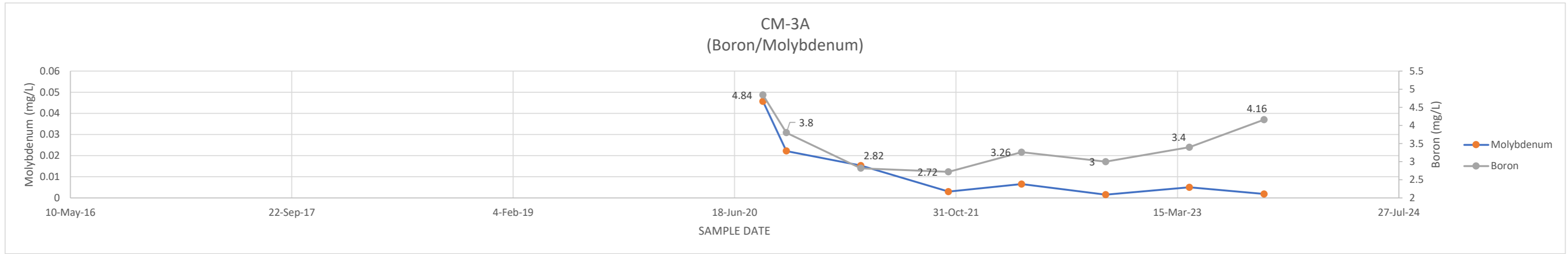
CM-1B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.86	0.0133
12-Oct-20	3.84	0.0144
1-Apr-21	3.44	0.0113
14-Oct-21	3.48	0.00976
31-Mar-22	4.06	0.00696
4-Oct-22	3.86	0.00551
11-Apr-23	4.08	0.00488
26-Sep-23	4.41	0.005



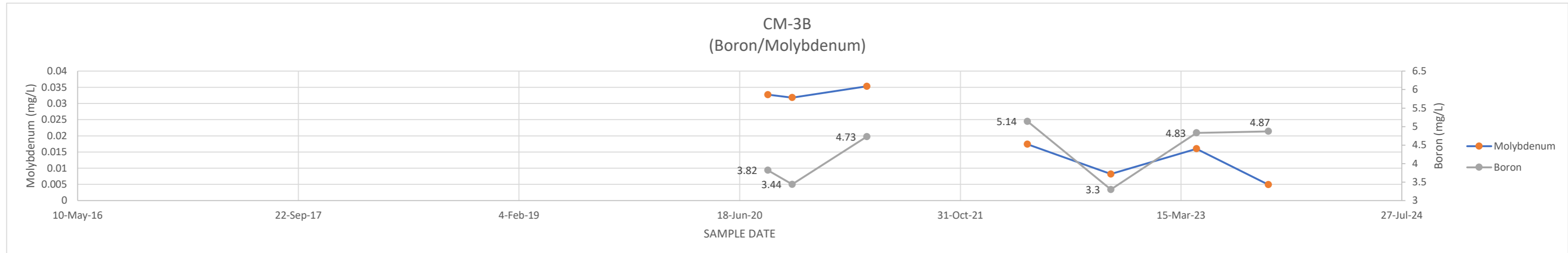
CM-2 DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.93	0.00209
7-Oct-20	0.845	0.00203
1-Apr-21	0.679	0.00161
15-Oct-21	0.744	0.0012
31-Mar-22	0.48	0.00082
6-Oct-22	0.596	0.0006
11-Apr-23	1.65	0.00152
26-Sep-23	0.409	0.0006



CM-3A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	4.84	0.0457
13-Oct-20	3.8	0.0222
30-Mar-21	2.82	0.0153
14-Oct-21	2.72	0.00297
28-Mar-22	3.26	0.00656
4-Oct-22	3	0.00155
11-Apr-23	3.4	0.00503
27-Sep-23	4.16	0.00187

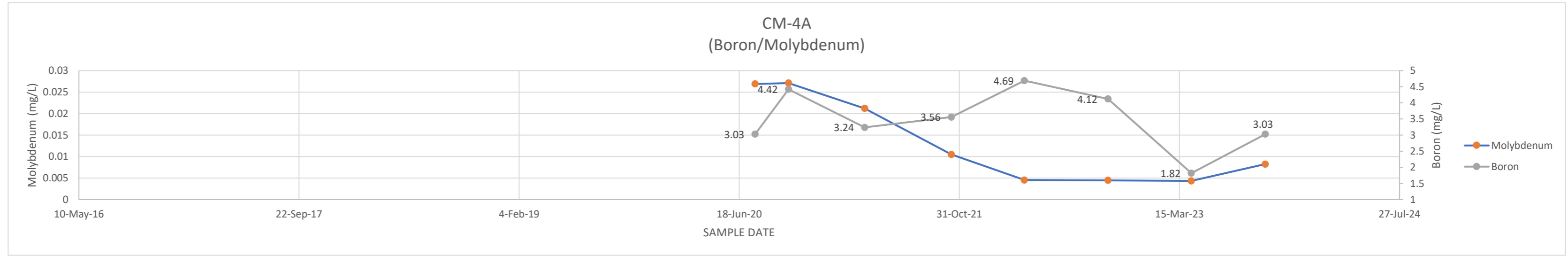


CM-3B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	3.82	0.0327
15-Oct-20	3.44	0.0318
2-Apr-21	4.73	0.0353
11-Oct-21		
1-Apr-22	5.14	0.0174
7-Oct-22	3.3	0.00819
19-Apr-23	4.83	0.016
29-Sep-23	4.87	0.0049

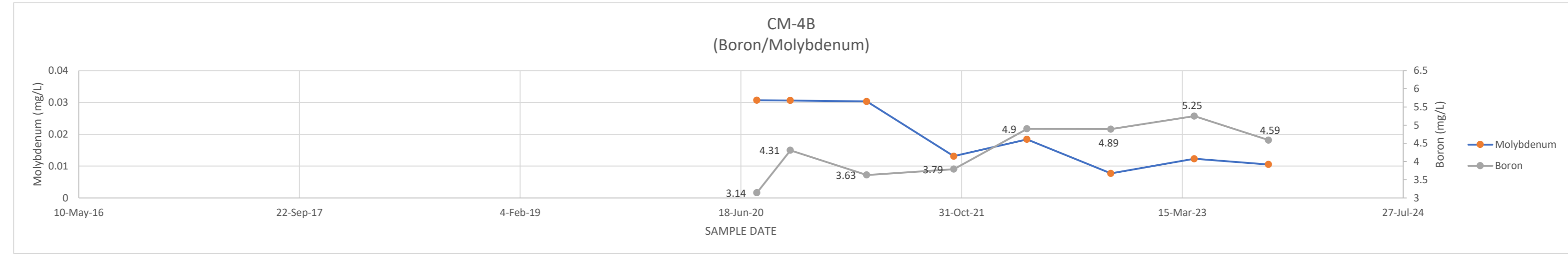


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

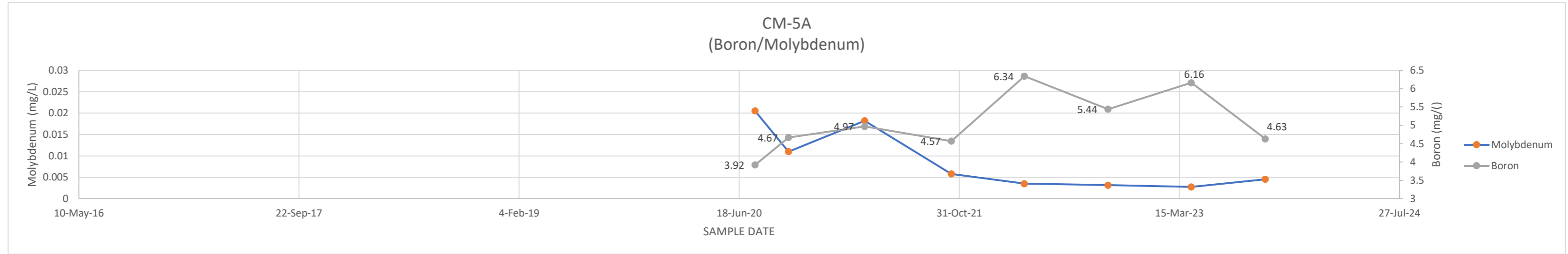
CM-4A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.03	0.0269
8-Oct-20	4.42	0.0271
30-Mar-21	3.24	0.0212
13-Oct-21	3.56	0.0105
28-Mar-22	4.69	0.00455
4-Oct-22	4.12	0.00449
11-Apr-23	1.82	0.00436
26-Sep-23	3.03	0.00825



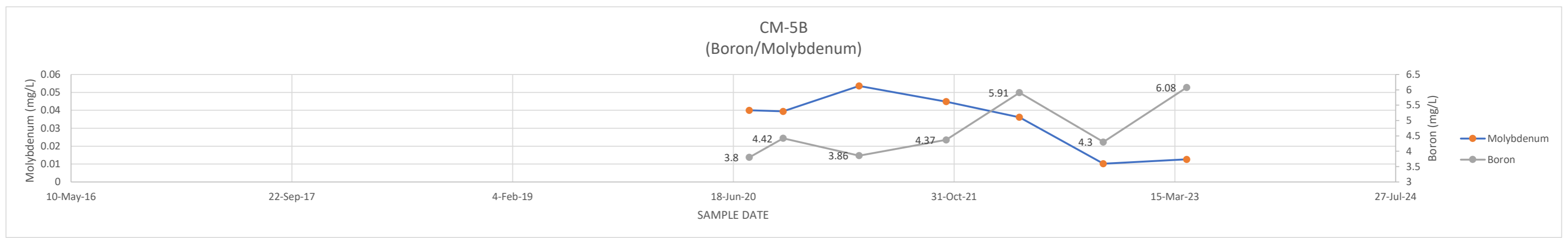
CM-4B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.14	0.0307
8-Oct-20	4.31	0.0306
30-Mar-21	3.63	0.0303
13-Oct-21	3.79	0.0131
28-Mar-22	4.9	0.0184
4-Oct-22	4.89	0.00771
11-Apr-23	5.25	0.0123
26-Sep-23	4.59	0.0105



CM-5A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.92	0.0205
8-Oct-20	4.67	0.011
30-Mar-21	4.97	0.0182
13-Oct-21	4.57	0.0058
28-Mar-22	6.34	0.00351
4-Oct-22	5.44	0.00317
11-Apr-23	6.16	0.00276
26-Sep-23	4.63	0.00455



CM-5B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.8	0.04
9-Oct-20	4.42	0.0394
30-Mar-21	3.86	0.0536
13-Oct-21	4.37	0.0448
28-Mar-22	5.91	0.0361
4-Oct-22	4.3	0.0102
11-Apr-23	6.08	0.0126



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

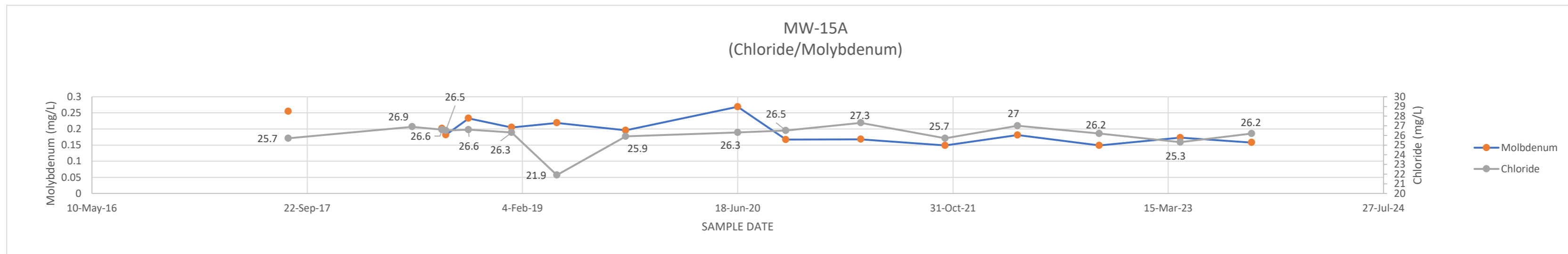
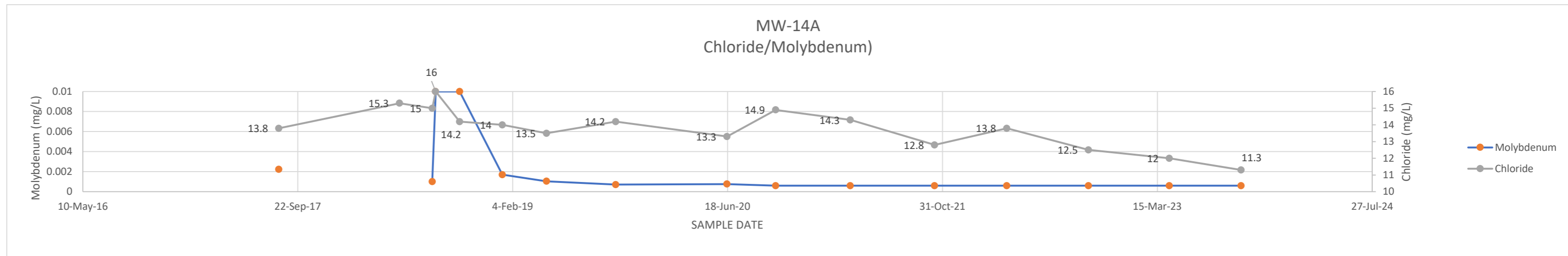
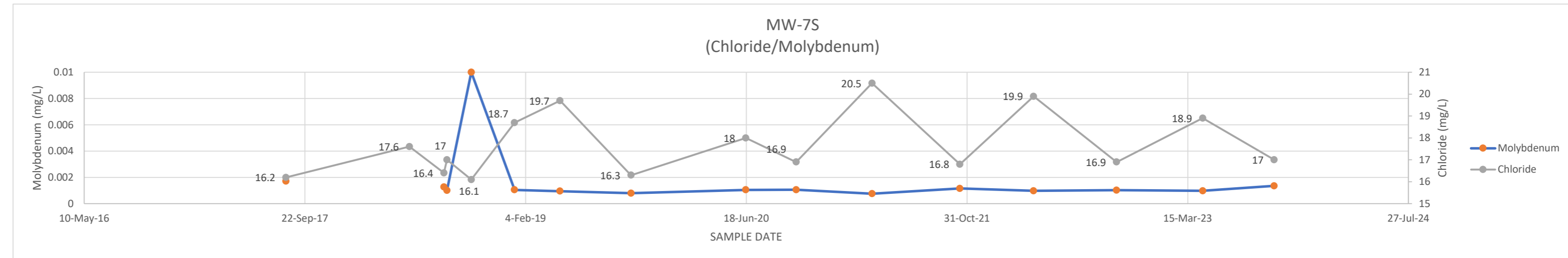
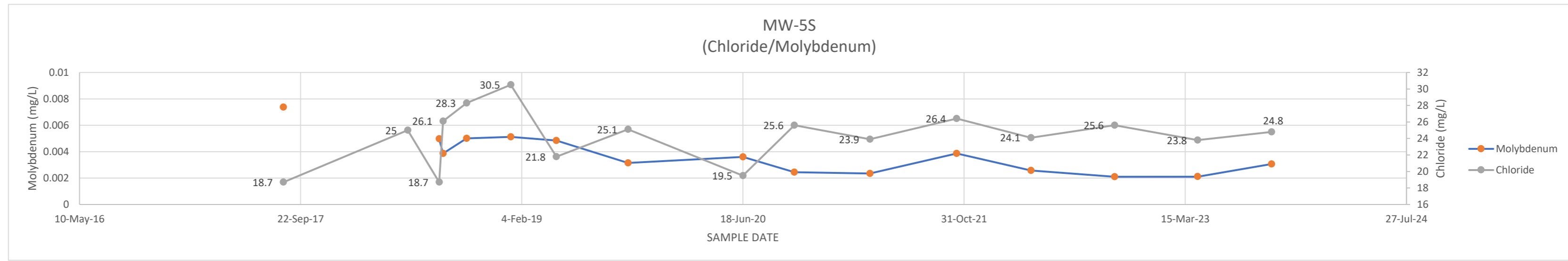
MW-5S	DATE	CHLORIDE	MOLYBDENUM
	14-Aug-17	18.7	0.00737
	22-May-18	25	
	1-Aug-18	18.7	0.00497
	10-Aug-18	26.1	0.00387
	2-Oct-18	28.3	0.005
	10-Jan-19	30.5	0.00512
	23-Apr-19	21.8	0.00485
	2-Oct-19	25.1	0.00315
	18-Jun-20	19.5	0.00361
	12-Oct-20	25.6	0.00244
	1-Apr-21	23.9	0.00234
	14-Oct-21	26.4	0.00387
	31-Mar-22	24.1	0.00257
	6-Oct-22	25.6	0.0021
	12-Apr-23	23.8	0.00211
	26-Sep-23	24.8	0.00307

Value denoted in red from June 2022 resample

MW-7S	DATE	CHLORIDE	MOLYBDENUM
	10-Aug-17	16.2	0.00171
	17-May-18	17.6	
	3-Aug-18	16.4	0.00127
	10-Aug-18	17	0.001
	4-Oct-18	16.1	0.01
	10-Jan-19	18.7	0.00105
	23-Apr-19	19.7	0.000952
	1-Oct-19	16.3	0.000798
	17-Jun-20	18	0.00105
	9-Oct-20	16.9	0.00106
	30-Mar-21	20.5	0.000755
	15-Oct-21	16.8	0.00115
	31-Mar-22	19.9	0.000973
	5-Oct-22	16.9	0.00103
	18-Apr-23	18.9	0.000973
	27-Sep-23	17	0.00135

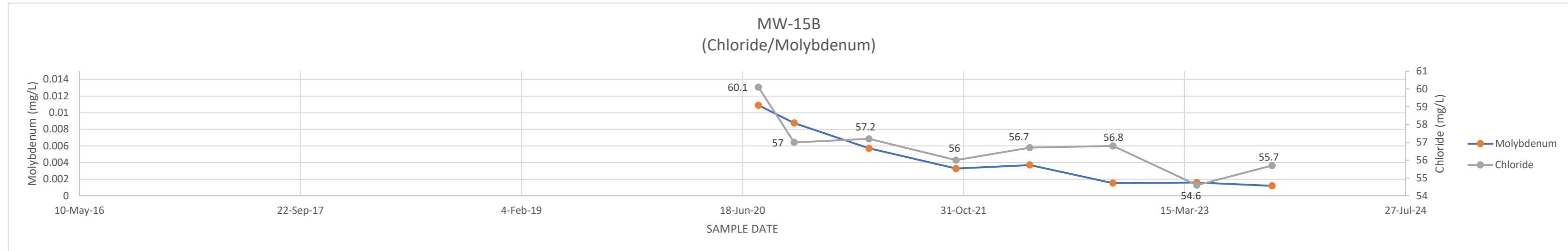
MW-14A	DATE	CHLORIDE	MOLYBDENUM
	9-Aug-17	13.8	0.00223
	17-May-18	15.3	
	1-Aug-18	15	0.001
	9-Aug-18	16	0.01
	4-Oct-18	14.2	0.01
	11-Jan-19	14	0.0017
	24-Apr-19	13.5	0.00104
	2-Oct-19	14.2	0.000709
	17-Jun-20	13.3	0.00076
	8-Oct-20	14.9	0.0006
	31-Mar-21	14.3	0.0006
	13-Oct-21	12.8	0.0006
	30-Mar-22	13.8	0.0006
	6-Oct-22	12.5	0.0006
	12-Apr-23	12	0.0006
	26-Sep-23	11.3	0.0006

MW-15A	DATE	CHLORIDE	MOLYBDENUM
	9-Aug-17	25.7	0.255
	24-May-18	26.9	
	1-Aug-18	26.6	0.202
	10-Aug-18	26.5	0.182
	2-Oct-18	26.6	0.233
	10-Jan-19	26.3	0.205
	25-Apr-19	21.9	0.219
	2-Oct-19	25.9	0.196
	18-Jun-20	26.3	0.269
	8-Oct-20	26.5	0.167
	31-Mar-21	27.3	0.168
	13-Oct-21	25.7	0.149
	30-Mar-22	27	0.181
	6-Oct-22	26.2	0.149
	12-Apr-23	25.3	0.173
	25-Sep-23	26.2	0.158

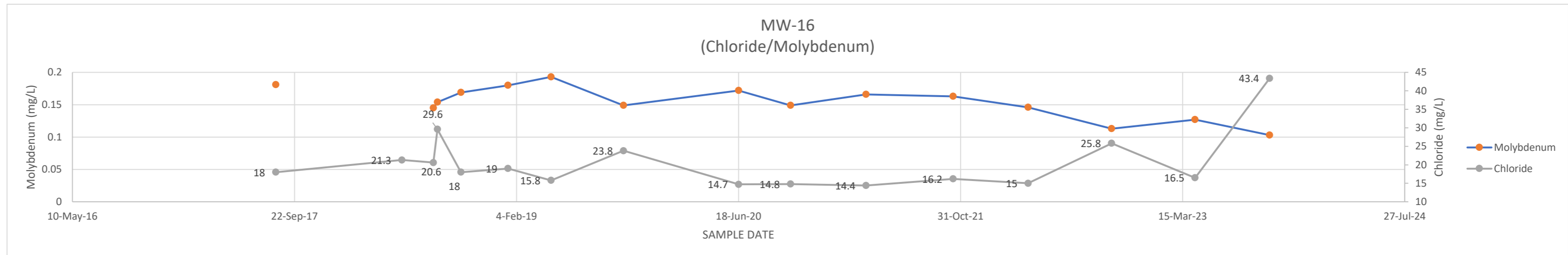


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

MW-15B	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	60.1	0.0109	
13-Oct-20	57	0.00876	
31-Mar-21	57.2	0.00571	
14-Oct-21	56	0.00328	
30-Mar-22	56.7	0.0037	
4-Oct-22	56.8	0.00153	
12-Apr-23	54.6	0.0016	
29-Sep-23	55.7	0.0012	

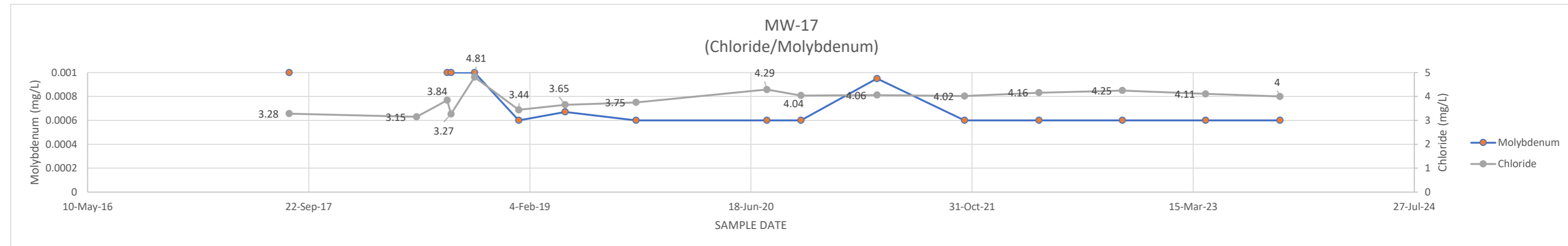


MW-16	DATE	CHLORIDE	MOLYBDENUM
11-Aug-17		18	0.181
22-May-18		21.3	
1-Aug-18		20.6	0.145
10-Aug-18		29.6	0.154
2-Oct-18		18	0.169
16-Jan-19		19	0.18
23-Apr-19		15.8	0.193
3-Oct-19		23.8	0.149
18-Jun-20		14.7	0.172
13-Oct-20		14.8	0.149
1-Apr-21		14.4	0.166
14-Oct-21		16.2	0.163
1-Apr-22	15	0.146	
6-Oct-22	25.8	0.113	
12-Apr-23	16.5	0.127	
27-Sep-23	43.4	0.103	



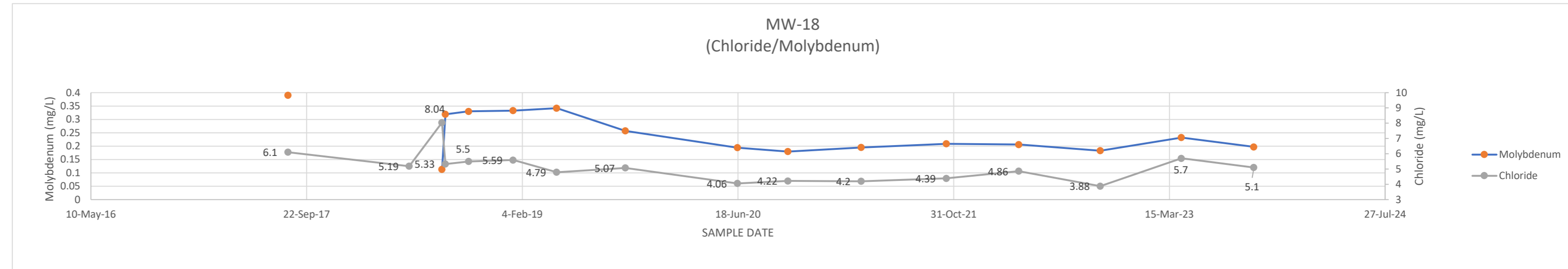
Value denoted in red from June 2022 resample

MW-17	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		3.28	0.001
24-May-18		3.15	
1-Aug-18		3.84	0.001
10-Aug-18		3.27	0.001
2-Oct-18		4.81	0.001
10-Jan-19		3.44	0.0006
25-Apr-19		3.65	0.000671
2-Oct-19		3.75	0.0006
24-Jul-20		4.29	0.0006
9-Oct-20		4.04	0.0006
30-Mar-21		4.06	0.00095
14-Oct-21		4.02	0.0006
31-Mar-22	4.16	0.0006	
6-Oct-22	4.25	0.0006	
12-Apr-23	4.11	0.0006	
27-Sep-23	4	0.0006	



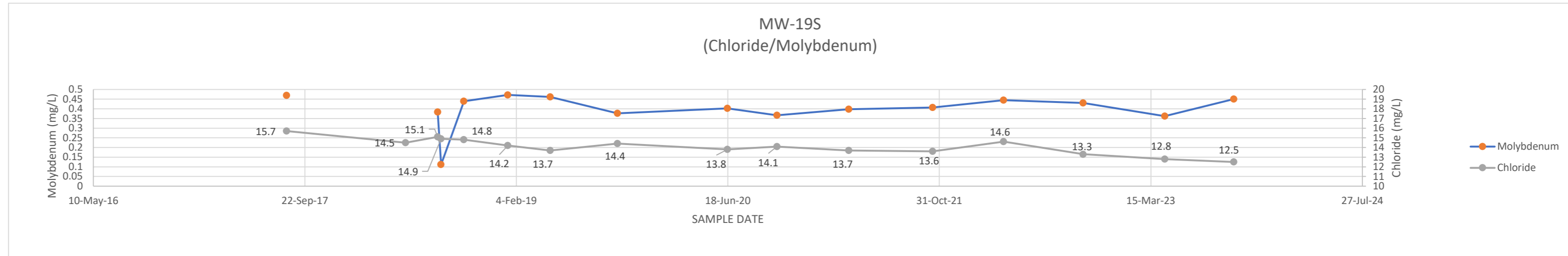
Value denoted in red from June 2022 resample

MW-18	DATE	CHLORIDE	MOLYBDENUM
10-Aug-17		6.1	0.39
18-May-18		5.19	
2-Aug-18		8.04	0.113
10-Aug-18		5.33	0.319
3-Oct-18		5.5	0.33
14-Jan-19		5.59	0.333
25-Apr-19		4.79	0.342
1-Oct-19		5.07	0.257
17-Jun-20		4.06	0.194
12-Oct-20		4.22	0.18
31-Mar-21		4.2	0.195
14-Oct-21		4.39	0.209
31-Mar-22		4.86	0.206
6-Oct-22		3.88	0.183
12-Apr-23		5.7	0.232
27-Sep-23		5.1	0.197

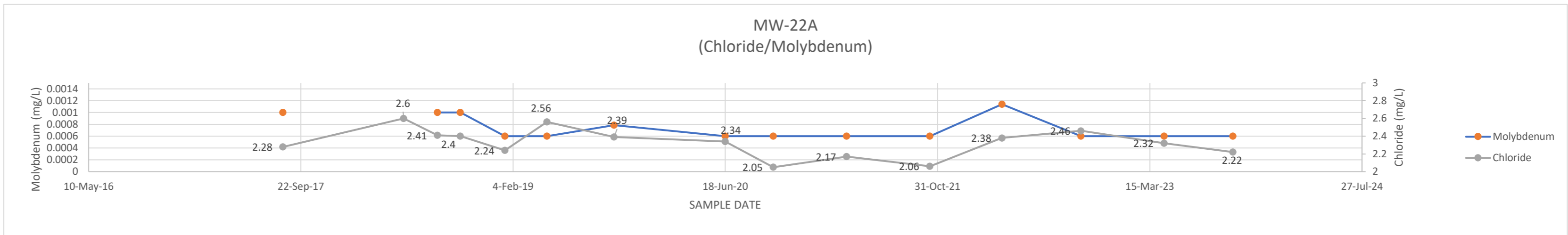


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

MW-19S	DATE	CHLORIDE	MOLYBDENUM
10-Aug-17	15.7	0.469	
18-May-18	14.5		
2-Aug-18	15.1	0.384	
10-Aug-18	14.9	0.112	
3-Oct-18	14.8	0.439	
15-Jan-19	14.2	0.472	
25-Apr-19	13.7	0.462	
1-Oct-19	14.4	0.377	
17-Jun-20	13.8	0.402	
12-Oct-20	14.1	0.367	
31-Mar-21	13.7	0.398	
15-Oct-21	13.6	0.407	
1-Apr-22	14.6	0.445	
6-Oct-22	13.3	0.43	
17-Apr-23	12.8	0.362	
27-Sep-23	12.5	0.45	

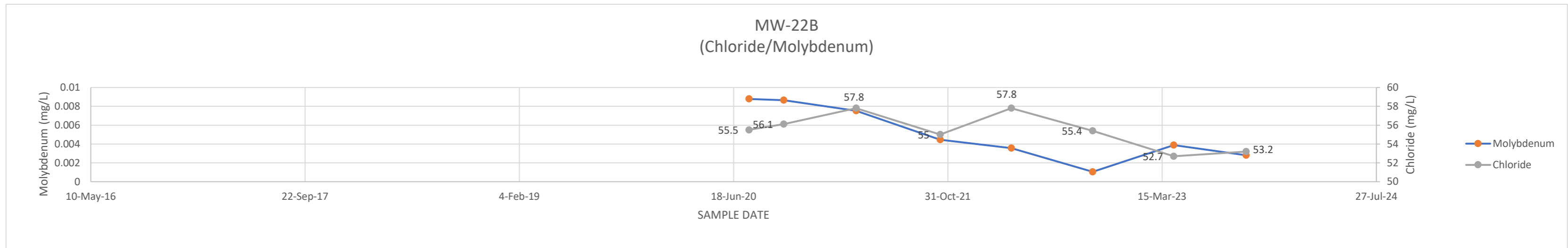


MW-22A	DATE	CHLORIDE	MOLYBDENUM
11-Aug-17	2.28	0.001	
22-May-18	2.6		
10-Aug-18	2.41	0.001	
3-Oct-18	2.4	0.001	
16-Jan-19	2.24	0.0006	
25-Apr-19	2.56	0.0006	
30-Sep-19	2.39	0.000787	
18-Jun-20	2.34	0.0006	
9-Oct-20	2.05	0.0006	
31-Mar-21	2.17	0.0006	
13-Oct-21	2.06	0.0006	
1-Apr-22	2.38	0.00114	
4-Oct-22	2.46	0.0006	
18-Apr-23	2.32	0.0006	
27-Sep-23	2.22	0.0006	

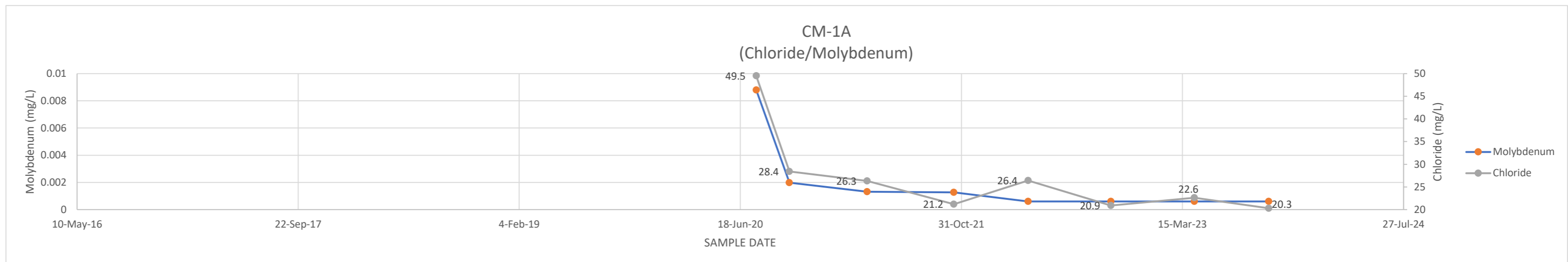


Value denoted in red from June 2022 resample

MW-22B	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	55.5	0.00878	
13-Oct-20	56.1	0.00866	
31-Mar-21	57.8	0.00753	
13-Oct-21	55	0.00446	
28-Mar-22	57.8	0.00357	
4-Oct-22	55.4	0.00105	
11-Apr-23	52.7	0.00389	
27-Sep-23	53.2	0.0028	

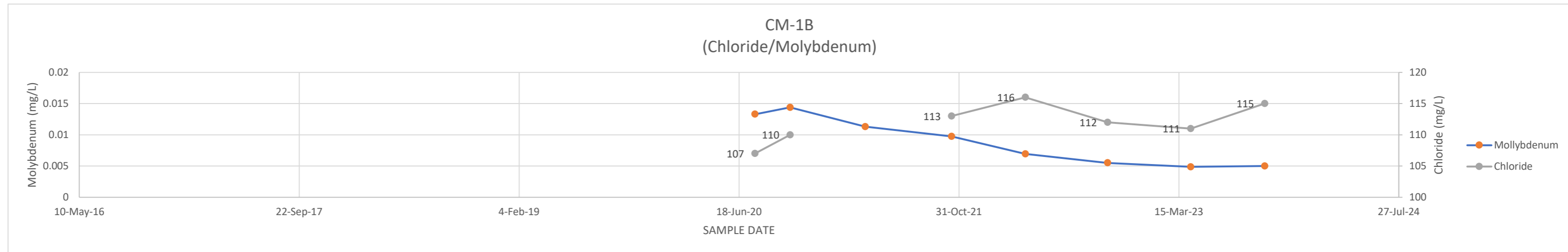


CM-1A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	49.5	0.0088	
7-Oct-20	28.4	0.00198	
1-Apr-21	26.3	0.00132	
14-Oct-21	21.2	0.00127	
31-Mar-22	26.4	0.0006	
4-Oct-22	20.9	0.0006	
11-Apr-23	22.6	0.0006	
26-Sep-23	20.3	0.0006	

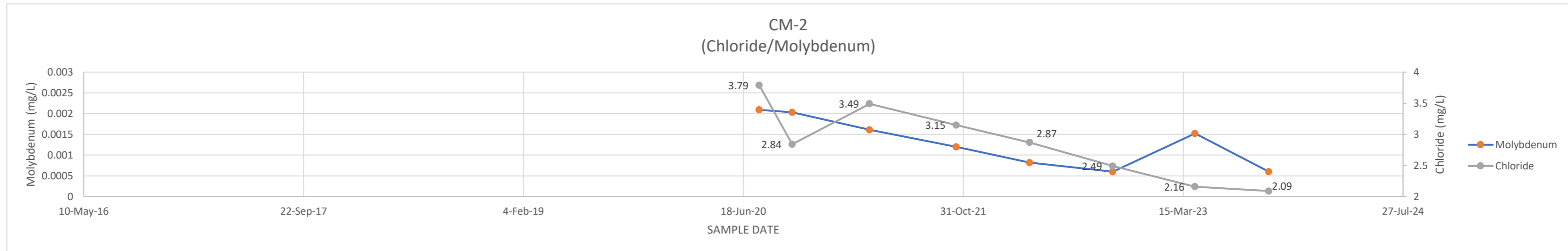


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

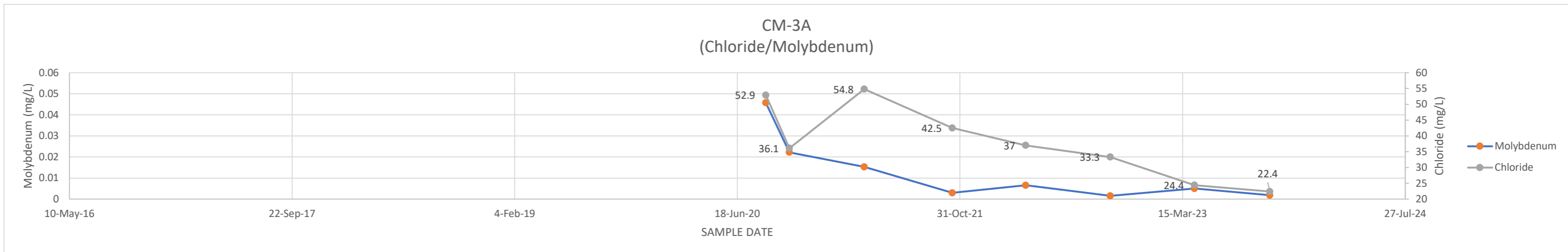
CM-1B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	107	0.0133
12-Oct-20	110	0.0144
1-Apr-21		0.0113
14-Oct-21	113	0.00976
31-Mar-22	116	0.00696
4-Oct-22	112	0.00551
11-Apr-23	111	0.00488
26-Sep-23	115	0.005



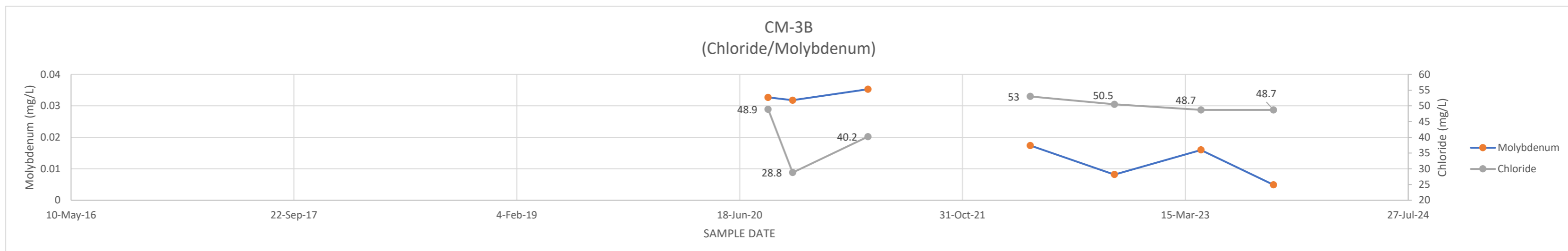
CM-2 DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.79	0.00209
7-Oct-20	2.84	0.00203
1-Apr-21	3.49	0.00161
15-Oct-21	3.15	0.0012
31-Mar-22	2.87	0.00082
6-Oct-22	2.49	0.0006
11-Apr-23	2.16	0.00152
26-Sep-23	2.09	0.0006



CM-3A DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	52.9	0.0457
13-Oct-20	36.1	0.0222
30-Mar-21	54.8	0.0153
14-Oct-21	42.5	0.00297
28-Mar-22	37	0.00656
4-Oct-22	33.3	0.00155
11-Apr-23	24.4	0.00503
27-Sep-23	22.4	0.00187

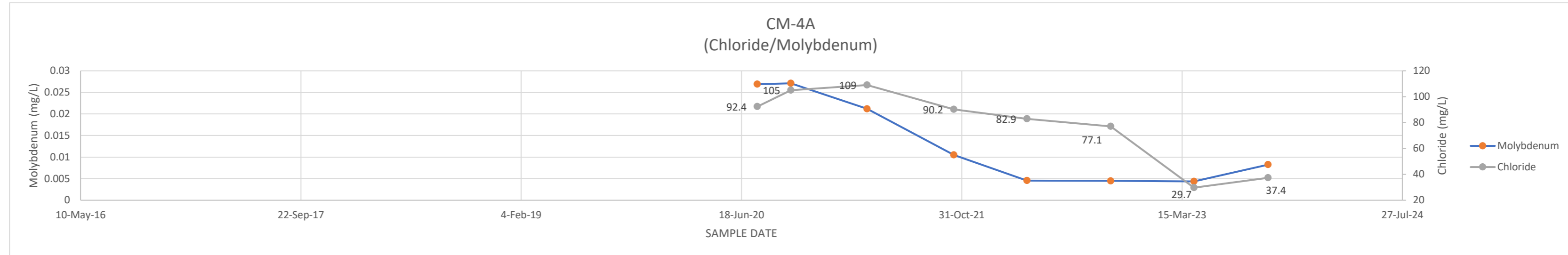


CM-3B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	48.9	0.0327
15-Oct-20	28.8	0.0318
2-Apr-21	40.2	0.0353
11-Oct-21		
1-Apr-22	53	0.0174
7-Oct-22	50.5	0.00819
19-Apr-23	48.7	0.016
29-Sep-23	48.7	0.0049

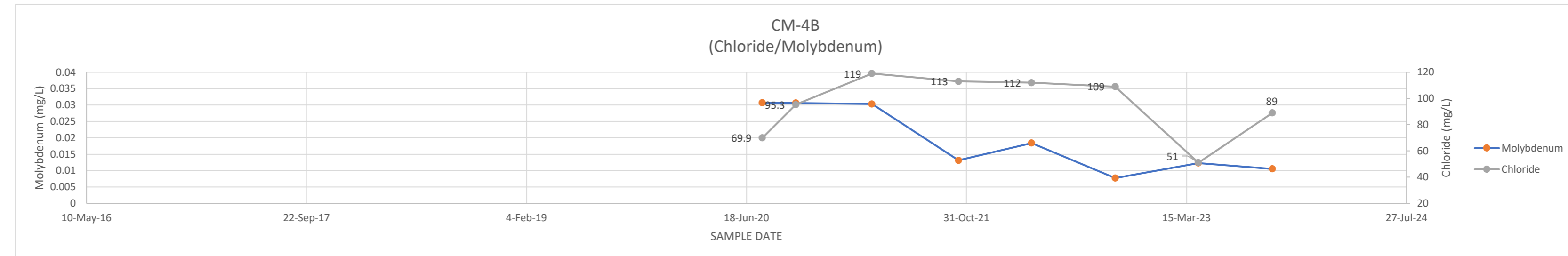


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

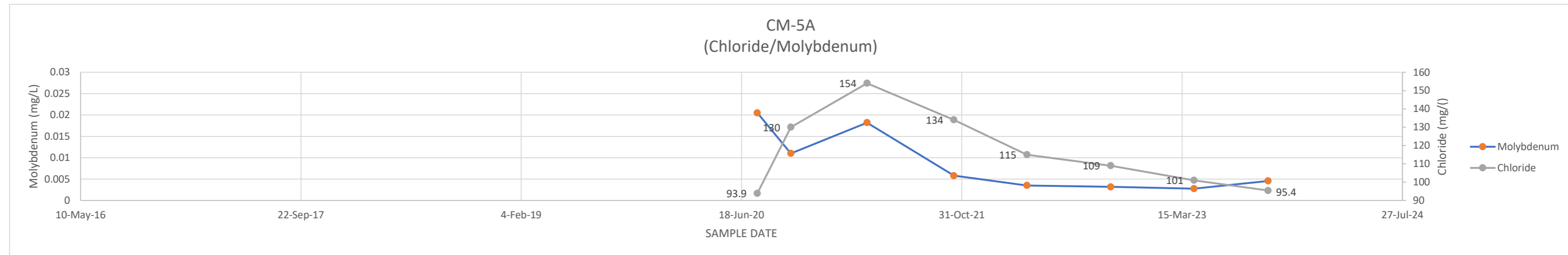
CM-4A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	92.4	0.0269	
8-Oct-20	105	0.0271	
30-Mar-21	109	0.0212	
13-Oct-21	90.2	0.0105	
28-Mar-22	82.9	0.00455	
4-Oct-22	77.1	0.00449	
11-Apr-23	29.7	0.00436	
26-Sep-23	37.4	0.00825	



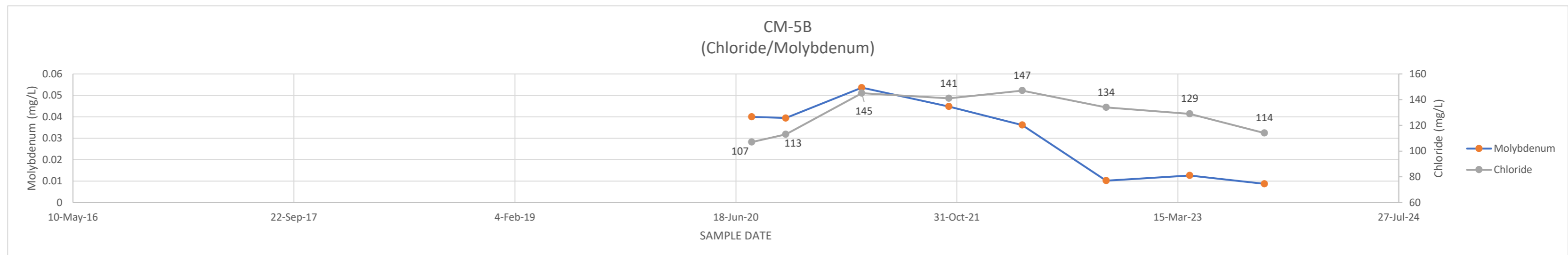
CM-4B	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	69.9	0.0307	
8-Oct-20	95.3	0.0306	
30-Mar-21	119	0.0303	
13-Oct-21	113	0.0131	
28-Mar-22	112	0.0184	
4-Oct-22	109	0.00771	
11-Apr-23	51	0.0123	
26-Sep-23	89	0.0105	



CM-5A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	93.9	0.0205	
8-Oct-20	130	0.011	
30-Mar-21	154	0.0182	
13-Oct-21	134	0.0058	
28-Mar-22	115	0.00351	
4-Oct-22	109	0.00317	
11-Apr-23	101	0.00276	
26-Sep-23	95.4	0.00455	



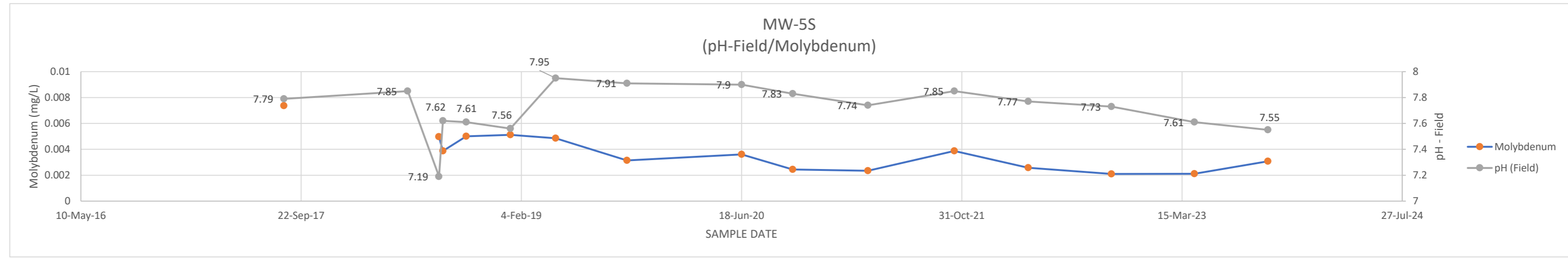
CM-5B	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	107	0.04	
9-Oct-20	113	0.0394	
30-Mar-21	145	0.0536	
13-Oct-21	141	0.0448	
28-Mar-22	147	0.0361	
4-Oct-22	134	0.0102	
11-Apr-23	129	0.0126	
27-Sep-23	114	0.00871	



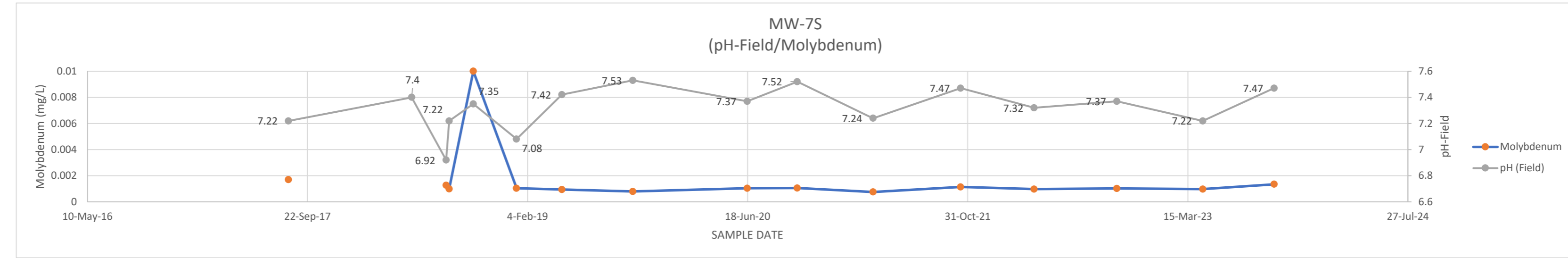
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

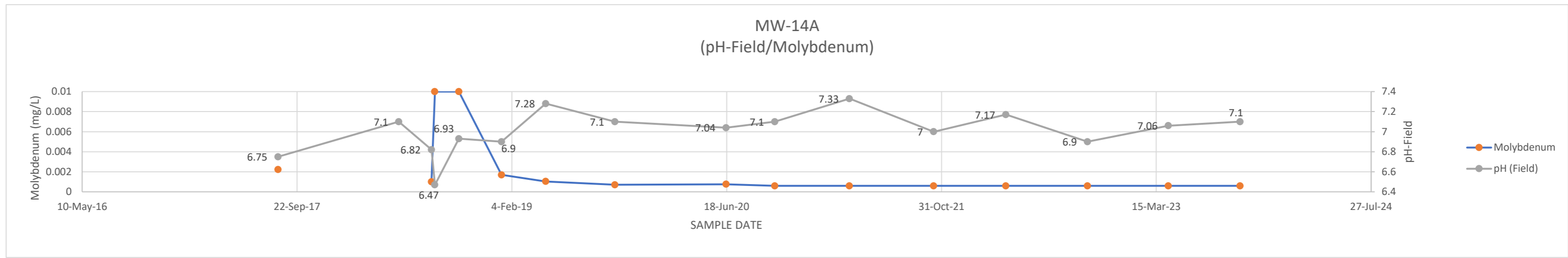
MW-5S	DATE	pH Field	MOLYBDENUM
14-Aug-17	7.79	0.00737	
22-May-18	7.85		
1-Aug-18	7.19	0.00497	
10-Aug-18	7.62	0.00387	
2-Oct-18	7.61	0.005	
10-Jan-19	7.56	0.00512	
23-Apr-19	7.95	0.00485	
2-Oct-19	7.91	0.00315	
18-Jun-20	7.9	0.00361	
12-Oct-20	7.83	0.00244	
1-Apr-21	7.74	0.00234	
14-Oct-21	7.85	0.00387	
31-Mar-22	7.77	0.00257	
6-Oct-22	7.73	0.0021	
12-Apr-23	7.61	0.00211	
26-Sep-23	7.55	0.00307	



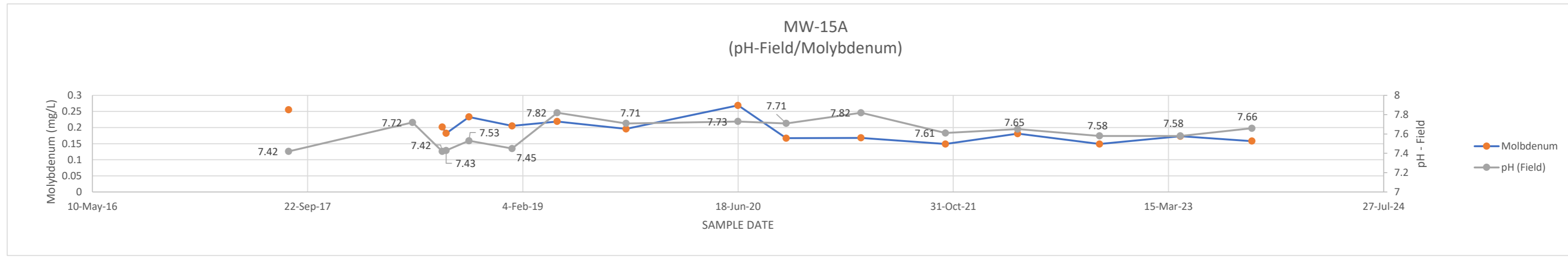
MW-7S	DATE	pH Field	MOLYBDENUM
10-Aug-17	7.22	0.00171	
17-May-18	7.4		
3-Aug-18	6.92	0.00127	
10-Aug-18	7.22	0.001	
4-Oct-18	7.35	0.01	
10-Jan-19	7.08	0.00105	
23-Apr-19	7.42	0.000952	
1-Oct-19	7.53	0.000798	
17-Jun-20	7.37	0.00105	
9-Oct-20	7.52	0.00106	
30-Mar-21	7.24	0.000755	
15-Oct-21	7.47	0.00115	
31-Mar-22	7.32	0.000973	
5-Oct-22	7.37	0.00103	
18-Apr-23	7.22	0.000973	
27-Sep-23	7.47	0.00135	



MW-14A	DATE	pH Field	MOLYBDENUM
9-Aug-17	6.75	0.00223	
17-May-18	7.1		
1-Aug-18	6.82	0.001	
9-Aug-18	6.47	0.01	
4-Oct-18	6.93	0.01	
11-Jan-19	6.9	0.0017	
24-Apr-19	7.28	0.00104	
2-Oct-19	7.1	0.000709	
17-Jun-20	7.04	0.00076	
8-Oct-20	7.1	0.0006	
31-Mar-21	7.33	0.0006	
13-Oct-21	7	0.0006	
30-Mar-22	7.17	0.0006	
6-Oct-22	6.9	0.0006	
12-Apr-23	7.06	0.0006	
26-Sep-23	7.1	0.0006	

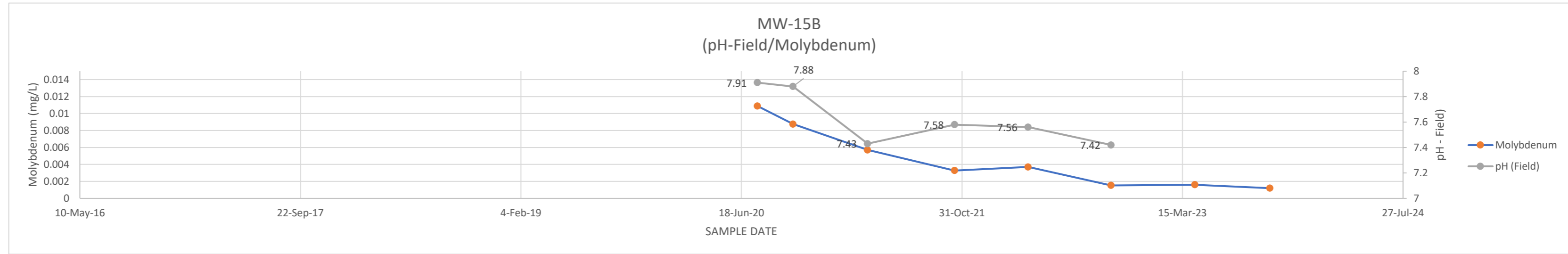


MW-15A	DATE	pH Field	MOLYBDENUM
9-Aug-17	7.42	0.255	
24-May-18	7.72		
1-Aug-18	7.42	0.202	
10-Aug-18	7.43	0.182	
2-Oct-18	7.53	0.233	
10-Jan-19	7.45	0.205	
25-Apr-19	7.82	0.219	
2-Oct-19	7.71	0.196	
18-Jun-20	7.73	0.269	
8-Oct-20	7.71	0.167	
31-Mar-21	7.82	0.168	
13-Oct-21	7.61	0.149	
30-Mar-22	7.65	0.181	
6-Oct-22	7.58	0.149	
12-Apr-23	7.58	0.173	
25-Sep-23	7.66	0.158	

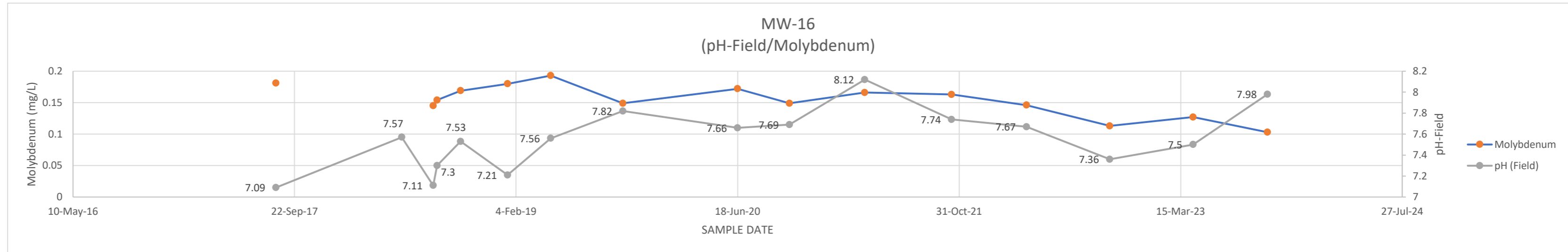


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

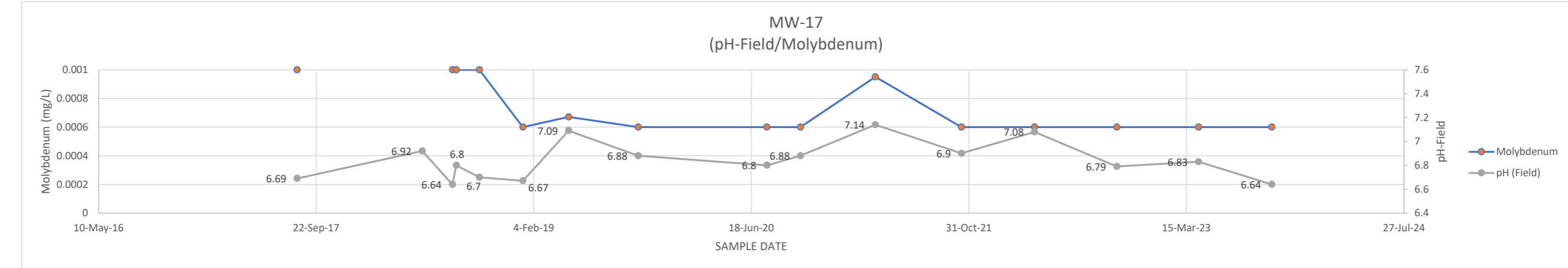
MW-15B	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.91	0.0109
	13-Oct-20	7.88	0.00876
	31-Mar-21	7.43	0.00571
	14-Oct-21	7.58	0.00328
	30-Mar-22	7.56	0.0037
	4-Oct-22	7.42	0.00153
	12-Apr-23		0.0016
	29-Sep-23		0.0012



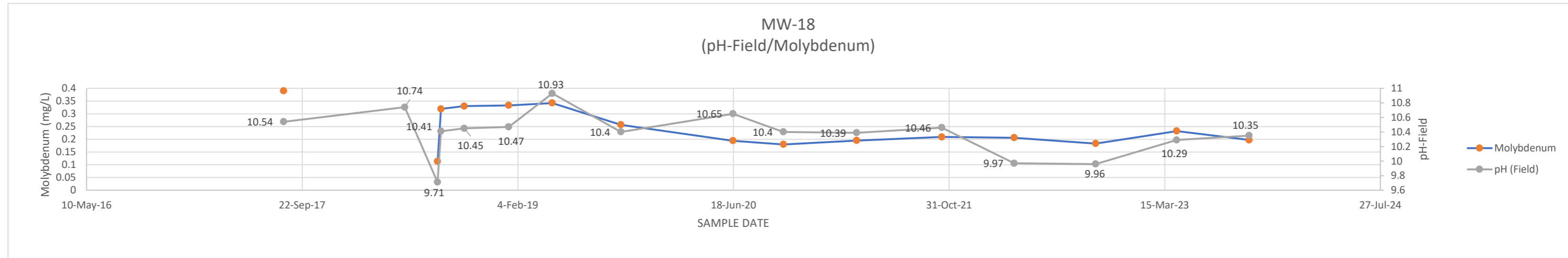
MW-16	DATE	pH Field	MOLYBDENUM
	11-Aug-17	7.09	0.181
	22-May-18	7.57	
	1-Aug-18	7.11	0.145
	10-Aug-18	7.3	0.154
	2-Oct-18	7.53	0.169
	16-Jan-19	7.21	0.18
	23-Apr-19	7.56	0.193
	3-Oct-19	7.82	0.149
	18-Jun-20	7.66	0.172
	13-Oct-20	7.69	0.149
	1-Apr-21	8.12	0.166
	14-Oct-21	7.74	0.163
	1-Apr-22	7.67	0.146
	6-Oct-22	7.36	0.113
	12-Apr-23	7.5	0.127
	27-Sep-23	7.98	0.103



MW-17	DATE	pH Field	MOLYBDENUM
	9-Aug-17	6.69	0.001
	24-May-18	6.92	
	1-Aug-18	6.64	0.001
	10-Aug-18	6.8	0.001
	2-Oct-18	6.7	0.001
	10-Jan-19	6.67	0.0006
	25-Apr-19	7.09	0.000671
	2-Oct-19	6.88	0.0006
	24-Jul-20	6.8	0.0006
	9-Oct-20	6.88	0.0006
	30-Mar-21	7.14	0.00095
	14-Oct-21	6.9	0.0006
	31-Mar-22	7.08	0.0006
	6-Oct-22	6.79	0.0006
	12-Apr-23	6.83	0.0006
	27-Sep-23	6.64	0.0006

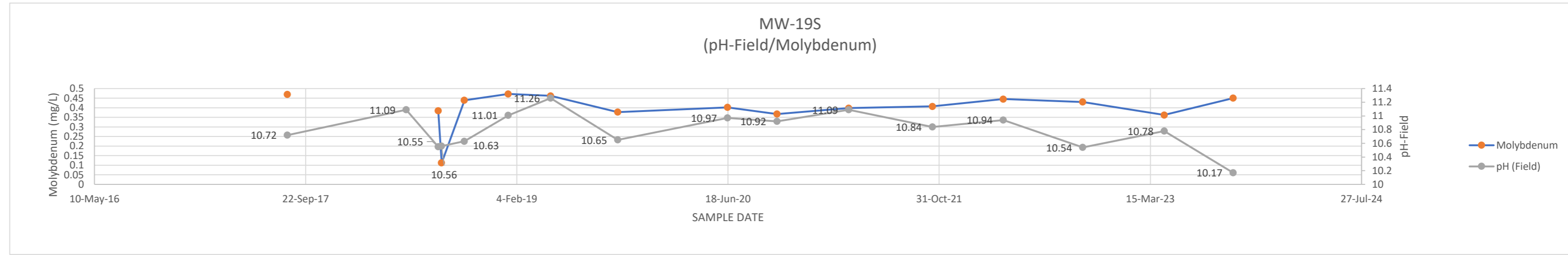


MW-18	DATE	pH Field	MOLYBDENUM
	10-Aug-17	10.54	0.39
	18-May-18	10.74	
	2-Aug-18	9.71	0.113
	10-Aug-18	10.41	0.319
	3-Oct-18	10.45	0.33
	14-Jan-19	10.47	0.333
	25-Apr-19	10.93	0.342
	1-Oct-19	10.4	0.257
	17-Jun-20	10.65	0.194
	12-Oct-20	10.4	0.18
	31-Mar-21	10.39	0.195
	14-Oct-21	10.46	0.209
	31-Mar-22	9.97	0.206
	6-Oct-22	9.96	0.183
	12-Apr-23	10.29	0.232
	27-Sep-23	10.35	0.197

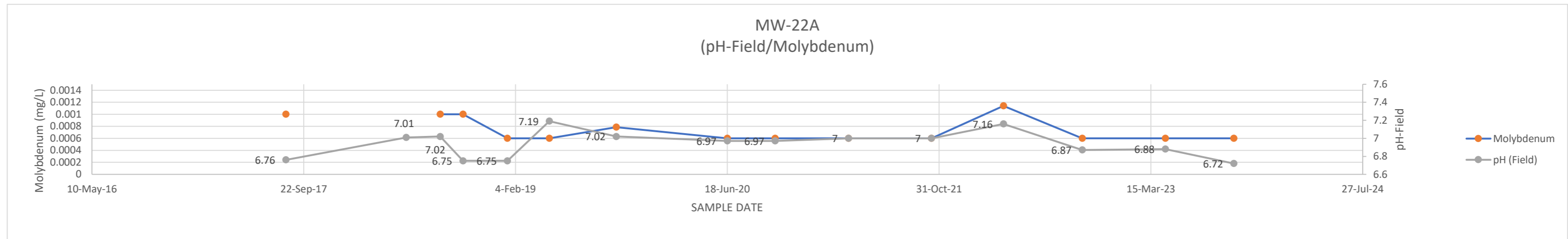


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

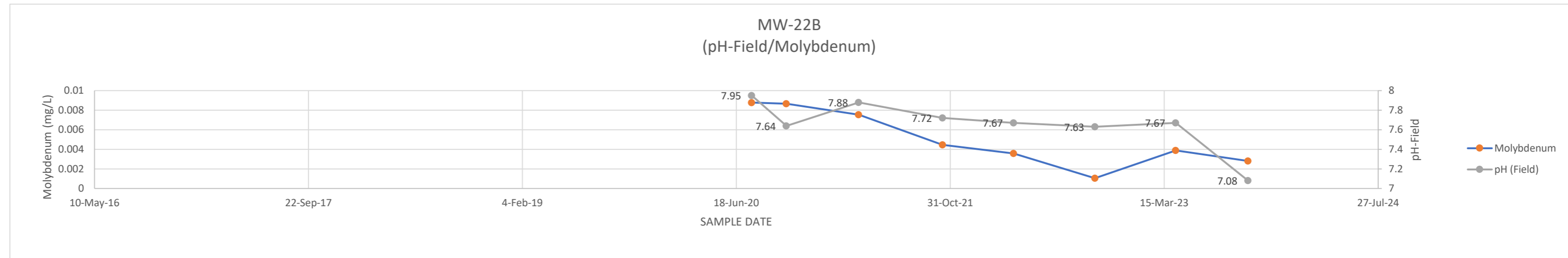
MW-19S	DATE	pH Field	MOLYBDENUM
10-Aug-17	10.72	0.469	
18-May-18	11.09		
2-Aug-18	10.55	0.384	
10-Aug-18	10.56	0.112	
3-Oct-18	10.63	0.439	
15-Jan-19	11.01	0.472	
25-Apr-19	11.26	0.462	
1-Oct-19	10.65	0.377	
17-Jun-20	10.97	0.402	
12-Oct-20	10.92	0.367	
31-Mar-21	11.09	0.398	
15-Oct-21	10.84	0.407	
1-Apr-22	10.94	0.445	
6-Oct-22	10.54	0.43	
17-Apr-23	10.78	0.362	
27-Sep-23	10.17	0.45	



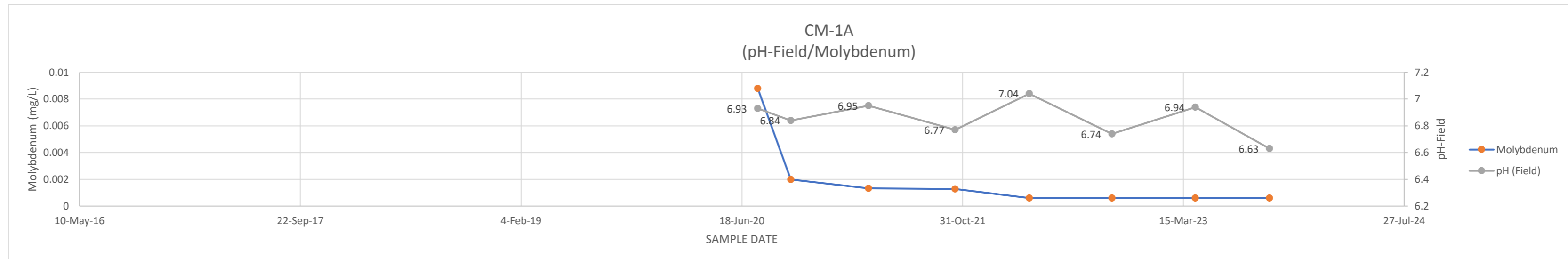
MW-22A	DATE	pH Field	MOLYBDENUM
11-Aug-17	6.76	0.001	
22-May-18	7.01		
10-Aug-18	7.02	0.001	
3-Oct-18	6.75	0.001	
16-Jan-19	6.75	0.0006	
25-Apr-19	7.19	0.0006	
30-Sep-19	7.02	0.000787	
18-Jun-20	6.97	0.0006	
9-Oct-20	6.97	0.0006	
31-Mar-21	7	0.0006	
13-Oct-21	7	0.0006	
1-Apr-22	7.16	0.00114	
4-Oct-22	6.87	0.0006	
18-Apr-23	6.88	0.0006	
27-Sep-23	6.72	0.0006	



MW-22B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.95	0.00878	
13-Oct-20	7.64	0.00866	
31-Mar-21	7.88	0.00753	
13-Oct-21	7.72	0.00446	
28-Mar-22	7.67	0.00357	
4-Oct-22	7.63	0.00105	
11-Apr-23	7.67	0.00389	
27-Sep-23	7.08	0.0028	

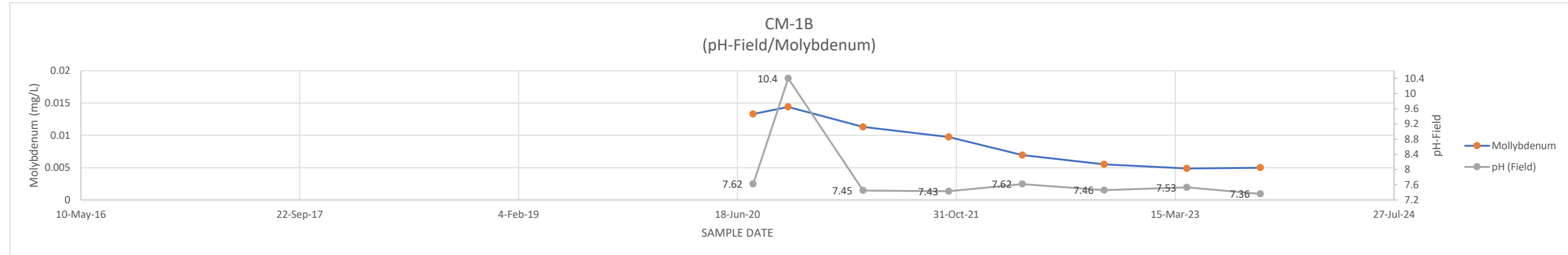


CM-1A	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	6.93	0.0088	
7-Oct-20	6.84	0.00198	
1-Apr-21	6.95	0.00132	
14-Oct-21	6.77	0.00127	
31-Mar-22	7.04	0.0006	
4-Oct-22	6.74	0.0006	
11-Apr-23	6.94	0.0006	
26-Sep-23	6.63	0.0006	

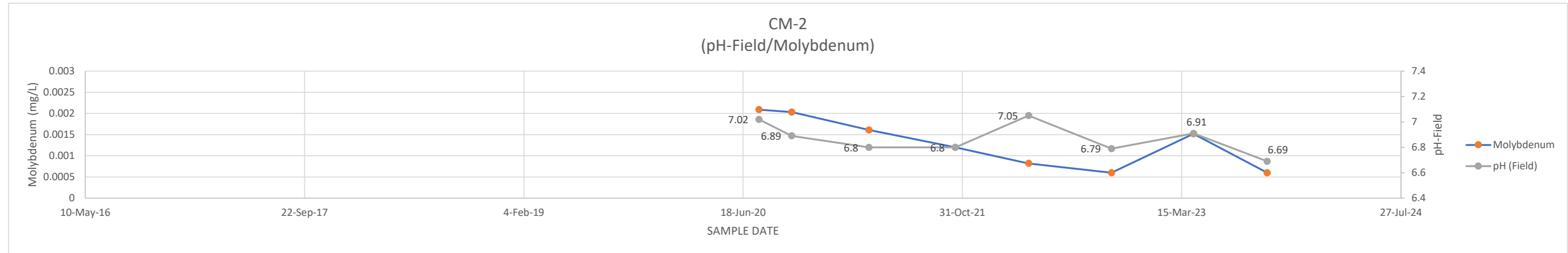


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

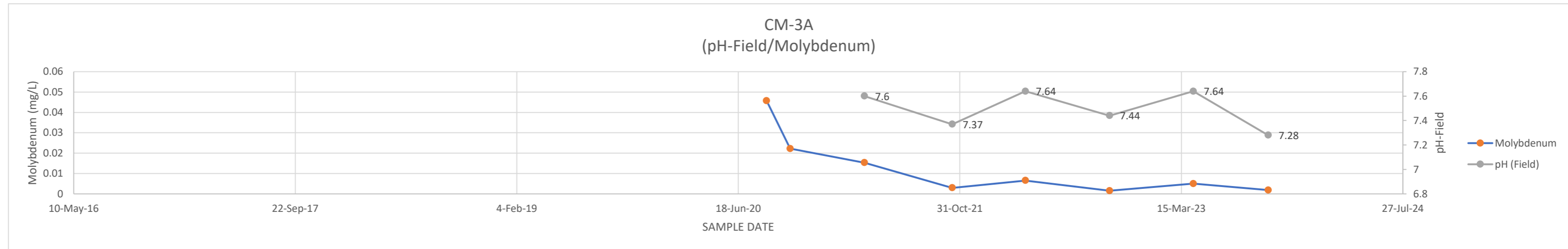
CM-1B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.62	0.0133	
12-Oct-20	10.4	0.0144	
1-Apr-21	7.45	0.0113	
14-Oct-21	7.43	0.00976	
31-Mar-22	7.62	0.00696	
4-Oct-22	7.46	0.00551	
11-Apr-23	7.53	0.00488	
26-Sep-23	7.36	0.005	



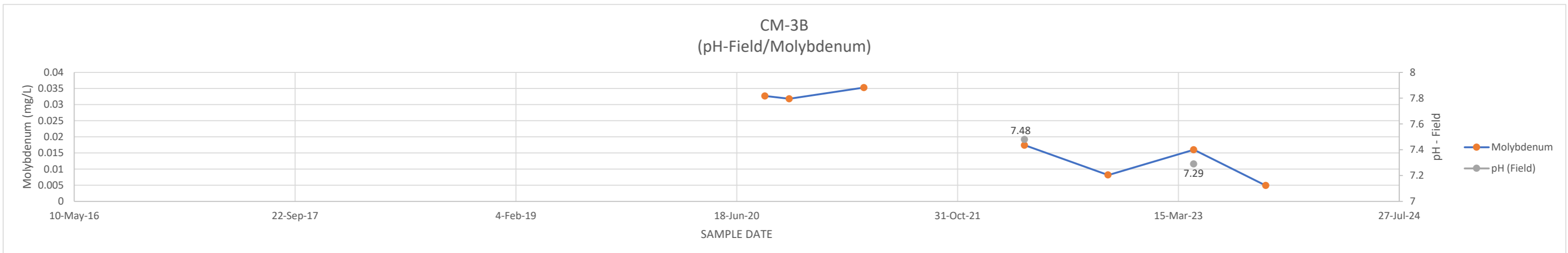
CM-2	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.02	0.00209	
7-Oct-20	6.89	0.00203	
1-Apr-21	6.8	0.00161	
15-Oct-21	6.8	0.0012	
31-Mar-22	7.05	0.00082	
6-Oct-22	6.79	0.0006	
11-Apr-23	6.91	0.00152	
26-Sep-23	6.69	0.0006	



CM-3A	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20		0.0457	
13-Oct-20		0.0222	
30-Mar-21	7.6	0.0153	
14-Oct-21	7.37	0.00297	
28-Mar-22	7.64	0.00656	
4-Oct-22	7.44	0.00155	
11-Apr-23	7.64	0.00503	
27-Sep-23	7.28	0.00187	

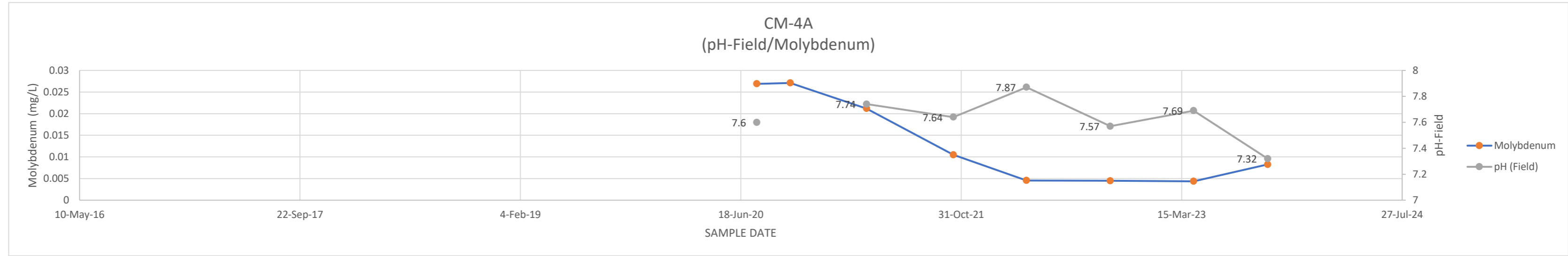


CM-3B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20		0.0327	
15-Oct-20		0.0318	
2-Apr-21		0.0353	
11-Oct-21			
1-Apr-22	7.48	0.0174	
7-Oct-22		0.00819	
19-Apr-23	7.29	0.016	
29-Sep-23		0.0049	

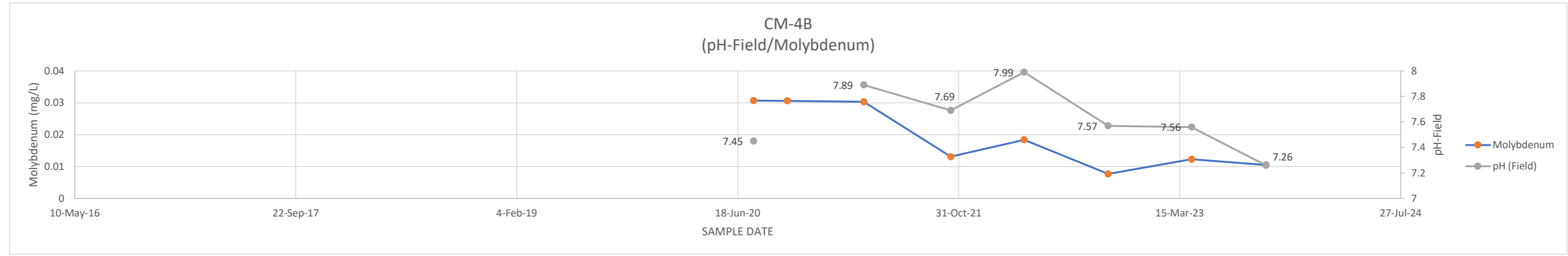


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

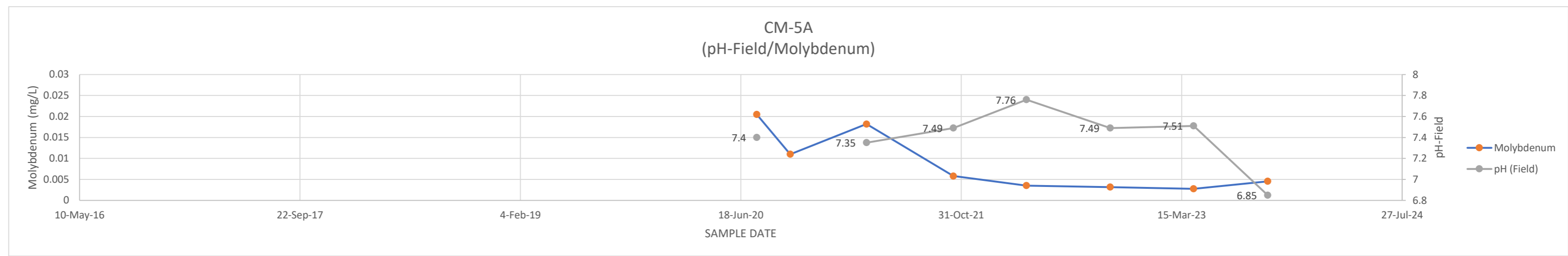
CM-4A	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.6	0.0269
	8-Oct-20		0.0271
	30-Mar-21	7.74	0.0212
	13-Oct-21	7.64	0.0105
	28-Mar-22	7.87	0.00455
	4-Oct-22	7.57	0.00449
	11-Apr-23	7.69	0.00436
	26-Sep-23	7.32	0.00825



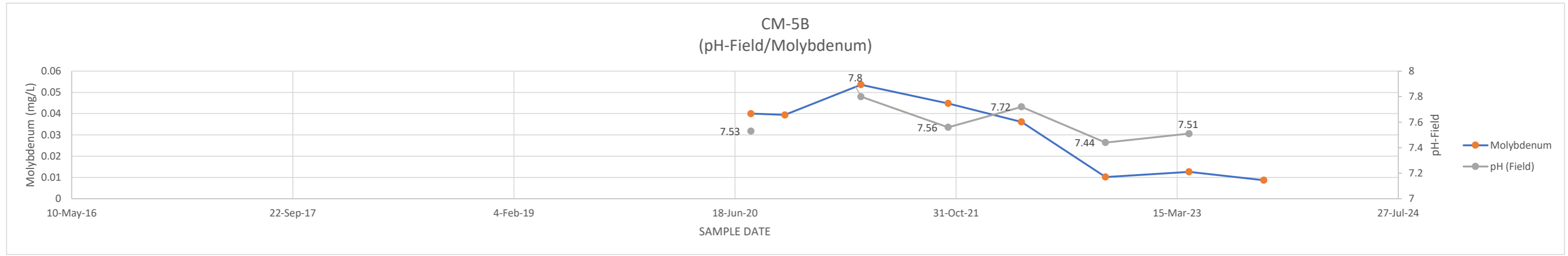
CM-4B	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.45	0.0307
	8-Oct-20		0.0306
	30-Mar-21	7.89	0.0303
	13-Oct-21	7.69	0.0131
	28-Mar-22	7.99	0.0184
	4-Oct-22	7.57	0.00771
	11-Apr-23	7.56	0.0123
	26-Sep-23	7.26	0.0105



CM-5A	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.4	0.0205
	8-Oct-20		0.011
	30-Mar-21	7.35	0.0182
	13-Oct-21	7.49	0.0058
	28-Mar-22	7.76	0.00351
	4-Oct-22	7.49	0.00317
	11-Apr-23	7.51	0.00276
	26-Sep-23	6.85	0.00455



CM-5B	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.53	0.04
	9-Oct-20		0.0394
	30-Mar-21	7.8	0.0536
	13-Oct-21	7.56	0.0448
	28-Mar-22	7.72	0.0361
	4-Oct-22	7.44	0.0102
	11-Apr-23	7.51	0.0126
	27-Sep-23		0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

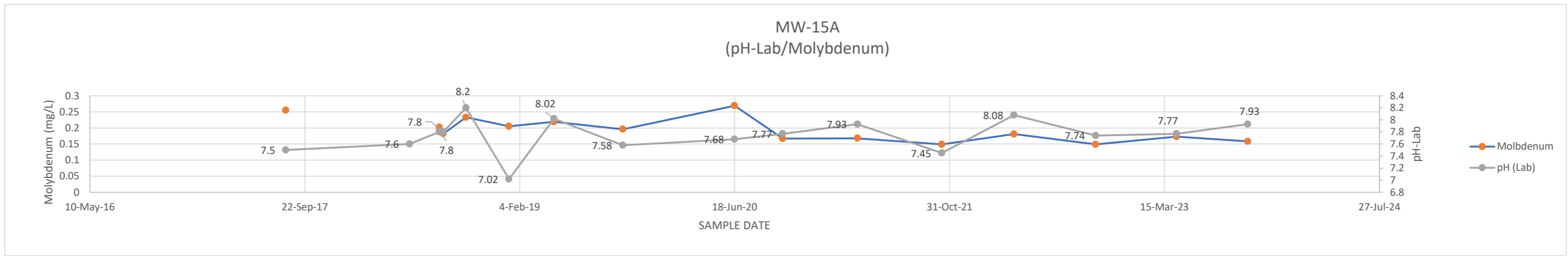
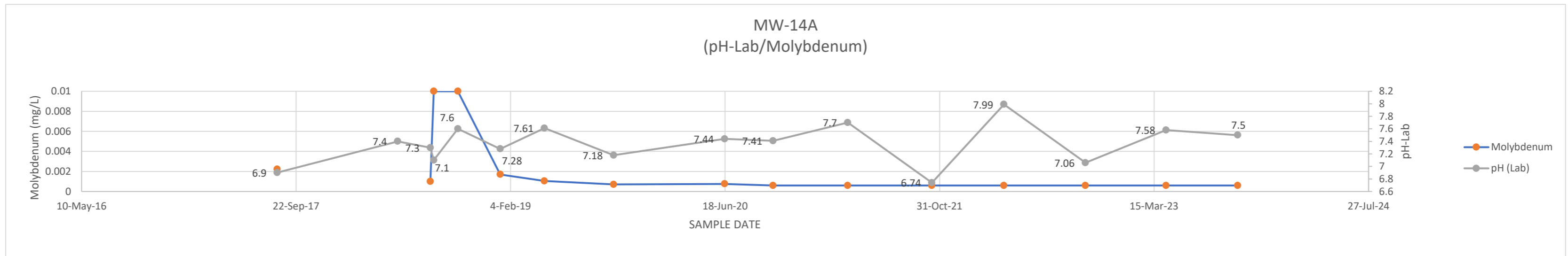
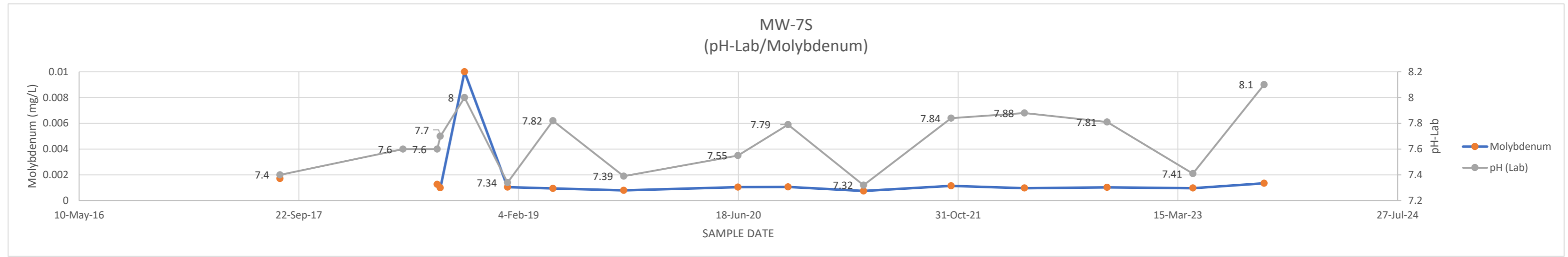
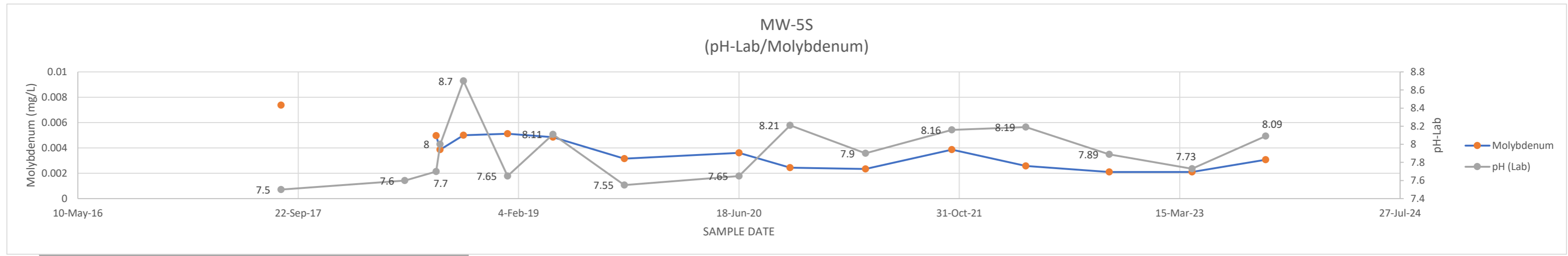
MW-5S	DATE	pH Lab	MOLYBDENUM
14-Aug-17	7.5	0.00737	
22-May-18	7.6		
1-Aug-18	7.7	0.00497	
10-Aug-18	8	0.00387	
2-Oct-18	8.7	0.005	
10-Jan-19	7.65	0.00512	
23-Apr-19	8.11	0.00485	
2-Oct-19	7.55	0.00315	
18-Jun-20	7.65	0.00361	
12-Oct-20	8.21	0.00244	
1-Apr-21	7.9	0.00234	
14-Oct-21	8.16	0.00387	
31-Mar-22	8.19	0.00257	
6-Oct-22	7.89	0.0021	
12-Apr-23	7.73	0.00211	
26-Sep-23	8.09	0.00307	

Value denoted in red from June 2022 resample

MW-7S	DATE	pH Lab	MOLYBDENUM
10-Aug-17	7.4	0.00171	
17-May-18	7.6		
3-Aug-18	7.6	0.00127	
10-Aug-18	7.7	0.001	
4-Oct-18	8	0.01	
10-Jan-19	7.34	0.00105	
23-Apr-19	7.82	0.000952	
1-Oct-19	7.39	0.000798	
17-Jun-20	7.55	0.00105	
9-Oct-20	7.79	0.00106	
30-Mar-21	7.32	0.000755	
15-Oct-21	7.84	0.00115	
31-Mar-22	7.88	0.000973	
5-Oct-22	7.81	0.00103	
18-Apr-23	7.41	0.000973	
27-Sep-23	8.1	0.00135	

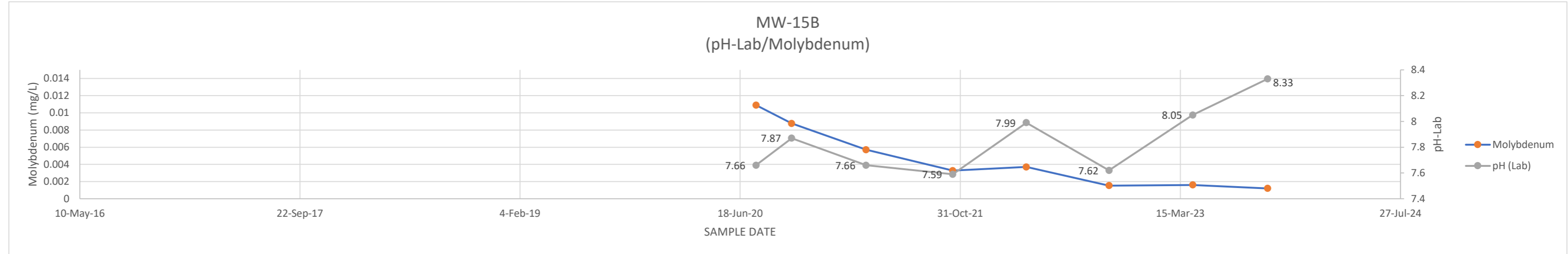
MW-14A	DATE	pH Lab	MOLYBDENUM
9-Aug-17	6.9	0.00223	
17-May-18	7.4		
1-Aug-18	7.3	0.001	
9-Aug-18	7.1	0.01	
4-Oct-18	7.6	0.01	
11-Jan-19	7.28	0.0017	
24-Apr-19	7.61	0.00104	
2-Oct-19	7.18	0.000709	
17-Jun-20	7.44	0.00076	
8-Oct-20	7.41	0.0006	
31-Mar-21	7.7	0.0006	
13-Oct-21	6.74	0.0006	
30-Mar-22	7.99	0.0006	
6-Oct-22	7.06	0.0006	
12-Apr-23	7.58	0.0006	
26-Sep-23	7.5	0.0006	

MW-15A	DATE	pH Lab	MOLYBDENUM
9-Aug-17	7.5	0.255	
24-May-18	7.6		
1-Aug-18	7.8	0.202	
10-Aug-18	7.8	0.182	
2-Oct-18	8.2	0.233	
10-Jan-19	7.02	0.205	
25-Apr-19	8.02	0.219	
2-Oct-19	7.58	0.196	
18-Jun-20	7.68	0.269	
8-Oct-20	7.77	0.167	
31-Mar-21	7.93	0.168	
13-Oct-21	7.45	0.149	
30-Mar-22	8.08	0.181	
6-Oct-22	7.74	0.149	
12-Apr-23	7.77	0.173	
25-Sep-23	7.93	0.158	

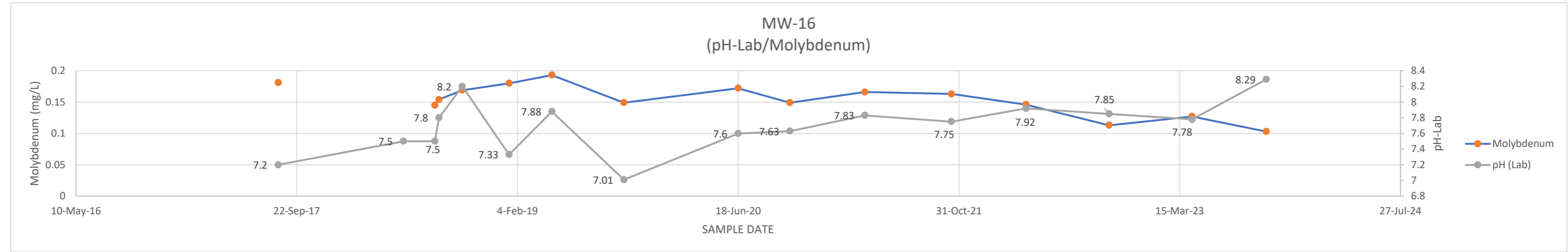


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

MW-15B	pH Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.66	0.0109
13-Oct-20	7.87	0.00876
31-Mar-21	7.66	0.00571
14-Oct-21	7.59	0.00328
30-Mar-22	7.99	0.0037
4-Oct-22	7.62	0.00153
12-Apr-23	8.05	0.0016
29-Sep-23	8.33	0.0012

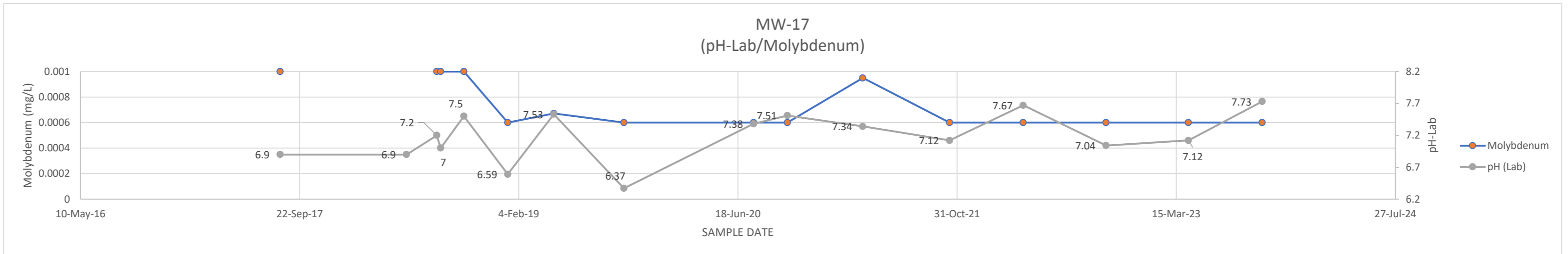


MW-16	pH Lab	MOLYBDENUM
DATE		
11-Aug-17	7.2	0.181
22-May-18	7.5	
1-Aug-18	7.5	0.145
10-Aug-18	7.8	0.154
2-Oct-18	8.2	0.169
16-Jan-19	7.33	0.18
23-Apr-19	7.88	0.193
3-Oct-19	7.01	0.149
18-Jun-20	7.6	0.172
13-Oct-20	7.63	0.149
1-Apr-21	7.83	0.166
14-Oct-21	7.75	0.163
1-Apr-22	7.92	0.146
6-Oct-22	7.85	0.113
12-Apr-23	7.78	0.127
27-Sep-23	8.29	0.103



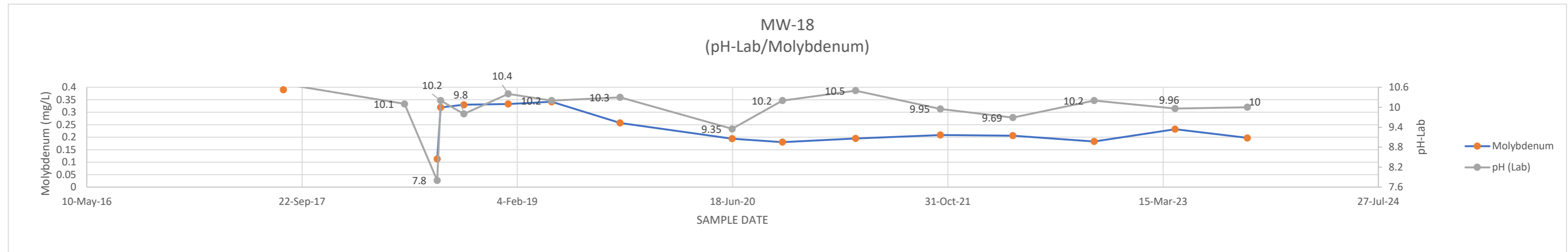
Value denoted in red from June 2022 resample

MW-17	pH Lab	MOLYBDENUM
DATE		
9-Aug-17	6.9	0.001
24-May-18	6.9	
1-Aug-18	7.2	0.001
10-Aug-18	7	0.001
2-Oct-18	7.5	0.001
10-Jan-19	6.59	0.0006
25-Apr-19	7.53	0.000671
2-Oct-19	6.37	0.0006
24-Jul-20	7.38	0.0006
9-Oct-20	7.51	0.0006
30-Mar-21	7.34	0.00095
14-Oct-21	7.12	0.0006
31-Mar-22	7.67	0.0006
6-Oct-22	7.04	0.0006
12-Apr-23	7.12	0.0006
27-Sep-23	7.73	0.0006



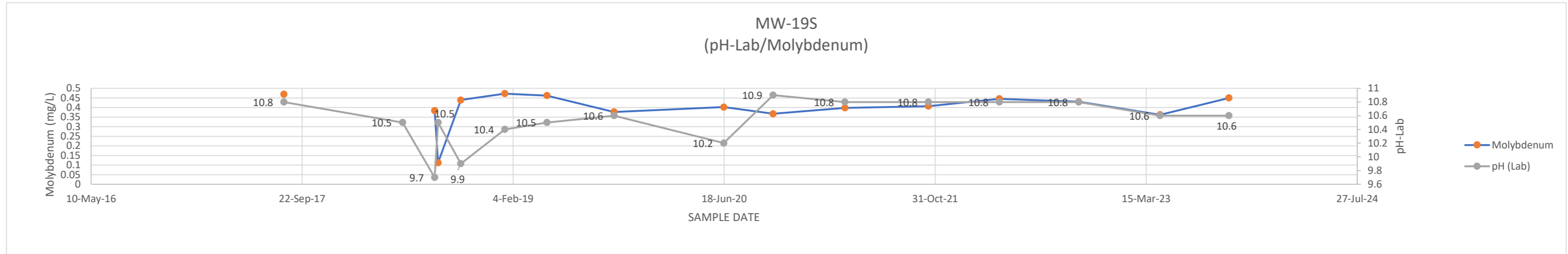
Value denoted in red from June 2022 resample

MW-18	pH Lab	MOLYBDENUM
DATE		
10-Aug-17	10.7	0.39
18-May-18	10.1	
2-Aug-18	7.8	0.113
10-Aug-18	10.2	0.319
3-Oct-18	9.8	0.33
14-Jan-19	10.4	0.333
25-Apr-19	10.2	0.342
1-Oct-19	10.3	0.257
17-Jun-20	9.35	0.194
12-Oct-20	10.2	0.18
31-Mar-21	10.5	0.195
14-Oct-21	9.95	0.209
31-Mar-22	9.69	0.206
6-Oct-22	10.2	0.183
12-Apr-23	9.96	0.232
27-Sep-23	10	0.197

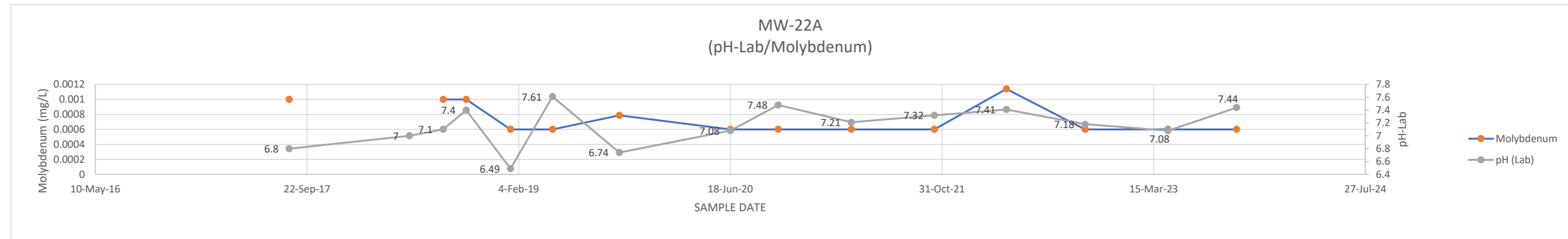


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

MW-19S	DATE	pH Lab	MOLYBDENUM
10-Aug-17	10.8	10.8	0.469
18-May-18	10.5	10.5	0.384
2-Aug-18	9.7	9.7	0.112
10-Aug-18	10.5	10.5	0.439
3-Oct-18	9.9	9.9	0.472
15-Jan-19	10.4	10.4	0.462
25-Apr-19	10.5	10.5	0.377
1-Oct-19	10.6	10.6	0.402
17-Jun-20	10.2	10.2	0.367
12-Oct-20	10.9	10.9	0.398
31-Mar-21	10.8	10.8	0.407
15-Oct-21	10.8	10.8	0.445
1-Apr-22	10.8	10.8	0.43
6-Oct-22	10.8	10.8	0.362
17-Apr-23	10.6	10.6	0.45
27-Sep-23	10.6	10.6	0.45

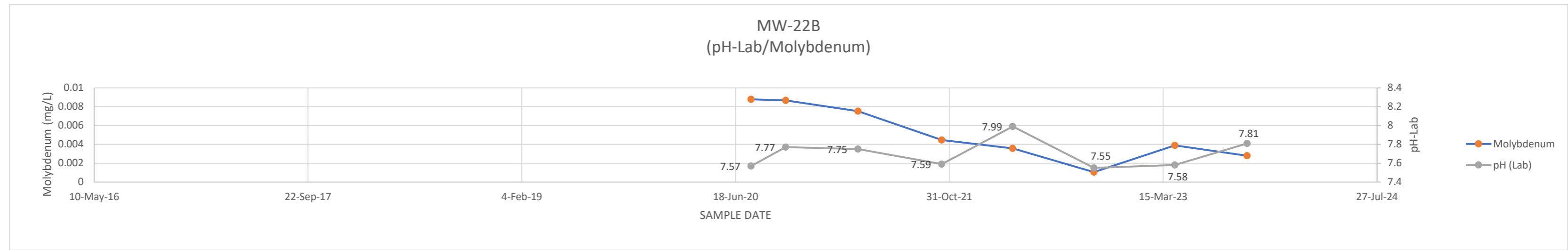


MW-22A	DATE	pH Lab	MOLYBDENUM
11-Aug-17	6.8	0.001	
22-May-18	7	0.001	
10-Aug-18	7.1	0.001	
3-Oct-18	7.4	0.001	
16-Jan-19	6.49	0.0006	
25-Apr-19	7.61	0.0006	
30-Sep-19	6.74	0.000787	
18-Jun-20	7.08	0.0006	
9-Oct-20	7.48	0.0006	
31-Mar-21	7.21	0.0006	
13-Oct-21	7.32	0.0006	
1-Apr-22	7.41	0.00114	
4-Oct-22	7.18	0.0006	
18-Apr-23	7.08	0.0006	
27-Sep-23	7.44	0.0006	

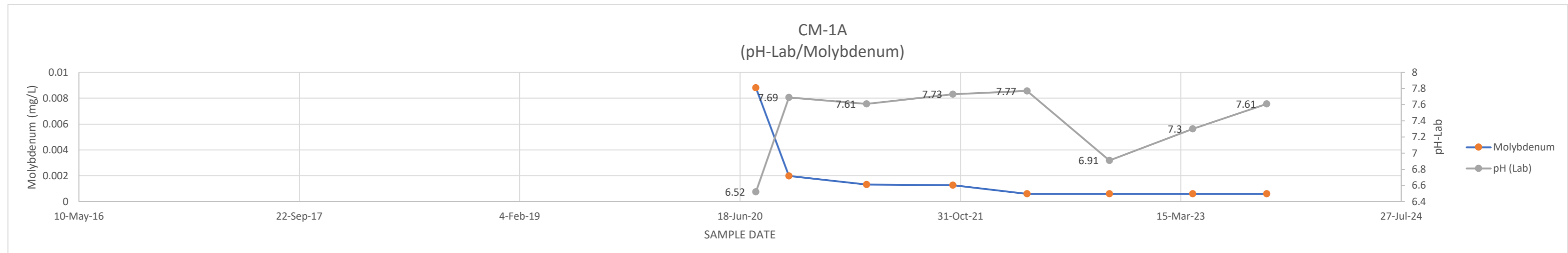


Value denoted in red from June 2022 resample

MW-22B	DATE	pH Lab	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.57	0.00878	
13-Oct-20	7.77	0.00866	
31-Mar-21	7.75	0.00753	
13-Oct-21	7.59	0.00446	
28-Mar-22	7.99	0.00357	
4-Oct-22	7.55	0.00105	
11-Apr-23	7.58	0.00389	
27-Sep-23	7.81	0.0028	

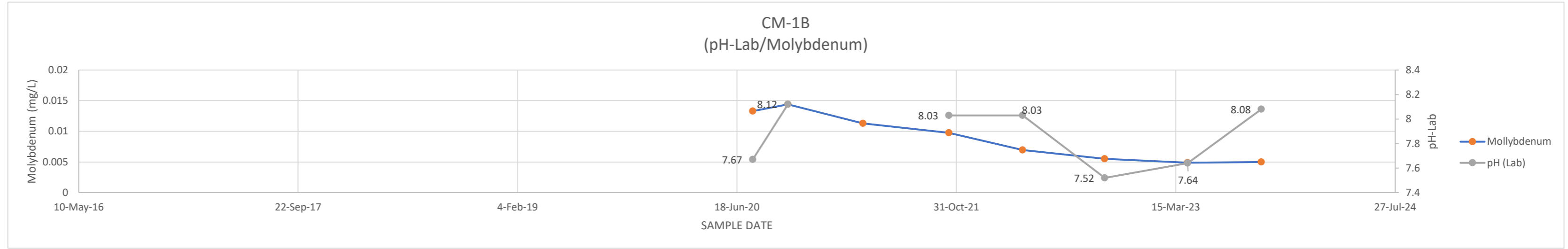


CM-1A	DATE	pH Lab	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	6.52	0.0088	
7-Oct-20	7.69	0.00198	
1-Apr-21	7.61	0.00132	
14-Oct-21	7.73	0.00127	
31-Mar-22	7.77	0.0006	
4-Oct-22	6.91	0.0006	
11-Apr-23	7.3	0.0006	
26-Sep-23	7.61	0.0006	

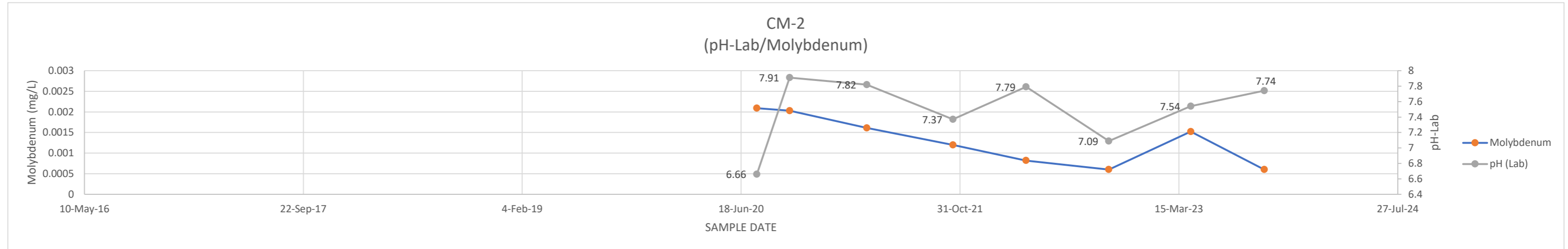


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

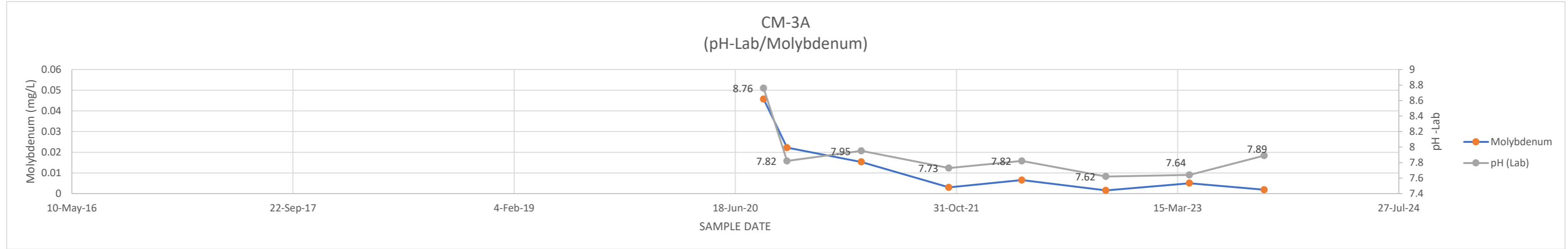
CM-1B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.67	0.0133
12-Oct-20	8.12	0.0144
1-Apr-21		0.0113
14-Oct-21	8.03	0.00976
31-Mar-22	8.03	0.00696
4-Oct-22	7.52	0.00551
11-Apr-23	7.64	0.00488
26-Sep-23	8.08	0.005



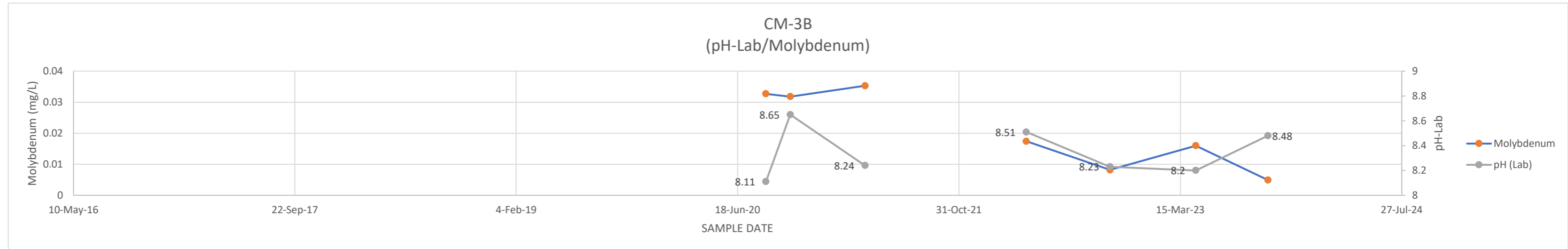
CM-2 DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	6.66	0.00209
7-Oct-20	7.91	0.00203
1-Apr-21	7.82	0.00161
15-Oct-21	7.37	0.0012
31-Mar-22	7.79	0.00082
6-Oct-22	7.09	0.0006
11-Apr-23	7.54	0.00152
26-Sep-23	7.74	0.0006



CM-3A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	8.76	0.0457
13-Oct-20	7.82	0.0222
30-Mar-21	7.95	0.0153
14-Oct-21	7.73	0.00297
28-Mar-22	7.82	0.00656
4-Oct-22	7.62	0.00155
11-Apr-23	7.64	0.00503
27-Sep-23	7.89	0.00187

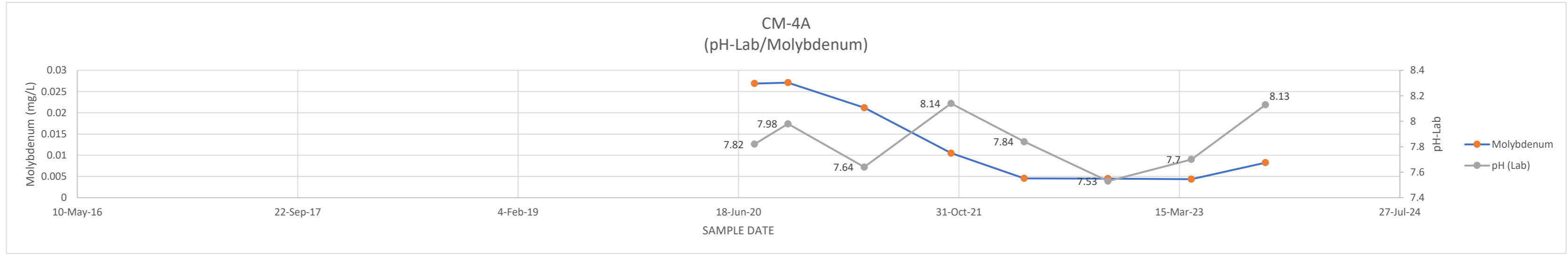


CM-3B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	8.11	0.0327
15-Oct-20	8.65	0.0318
2-Apr-21	8.24	0.0353
11-Oct-21		
1-Apr-22	8.51	0.0174
7-Oct-22	8.23	0.00819
19-Apr-23	8.2	0.016
29-Sep-23	8.48	0.0049

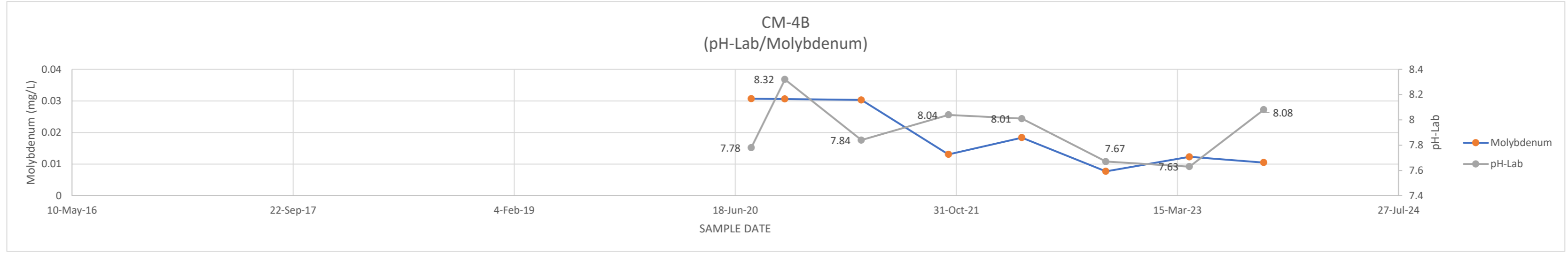


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

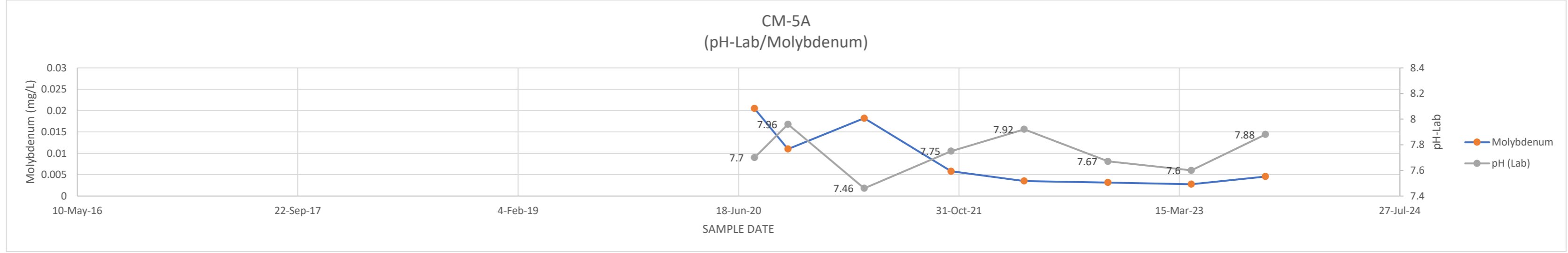
CM-4A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.82	0.0269
8-Oct-20	7.98	0.0271
30-Mar-21	7.64	0.0212
13-Oct-21	8.14	0.0105
28-Mar-22	7.84	0.00455
4-Oct-22	7.53	0.00449
11-Apr-23	7.7	0.00436
26-Sep-23	8.13	0.00825



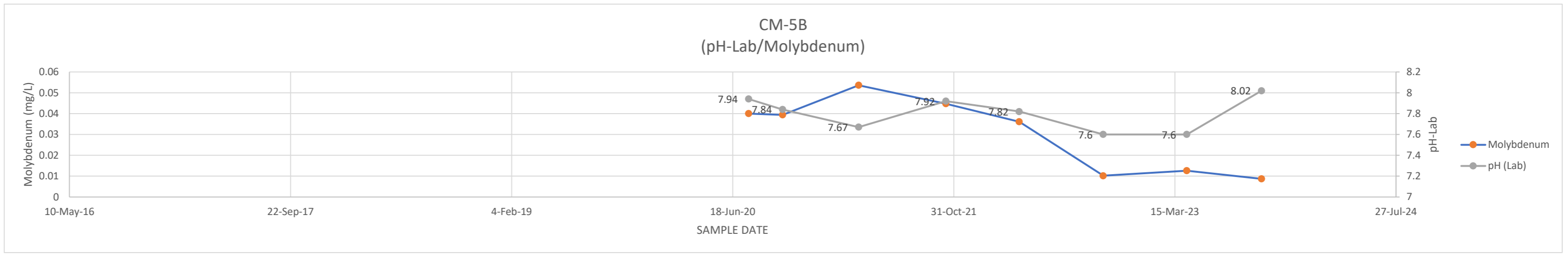
CM-4B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.78	0.0307
8-Oct-20	8.32	0.0306
30-Mar-21	7.84	0.0303
13-Oct-21	8.04	0.0131
28-Mar-22	8.01	0.0184
4-Oct-22	7.67	0.00771
11-Apr-23	7.63	0.0123
26-Sep-23	8.08	0.0105



CM-5A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.7	0.0205
8-Oct-20	7.96	0.011
30-Mar-21	7.46	0.0182
13-Oct-21	7.75	0.0058
28-Mar-22	7.92	0.00351
4-Oct-22	7.67	0.00317
11-Apr-23	7.6	0.00276
26-Sep-23	7.88	0.00455



CM-5B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.94	0.04
9-Oct-20	7.84	0.0394
30-Mar-21	7.67	0.0536
13-Oct-21	7.92	0.0448
28-Mar-22	7.82	0.0361
4-Oct-22	7.6	0.0102
11-Apr-23	7.6	0.0126
27-Sep-23	8.02	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

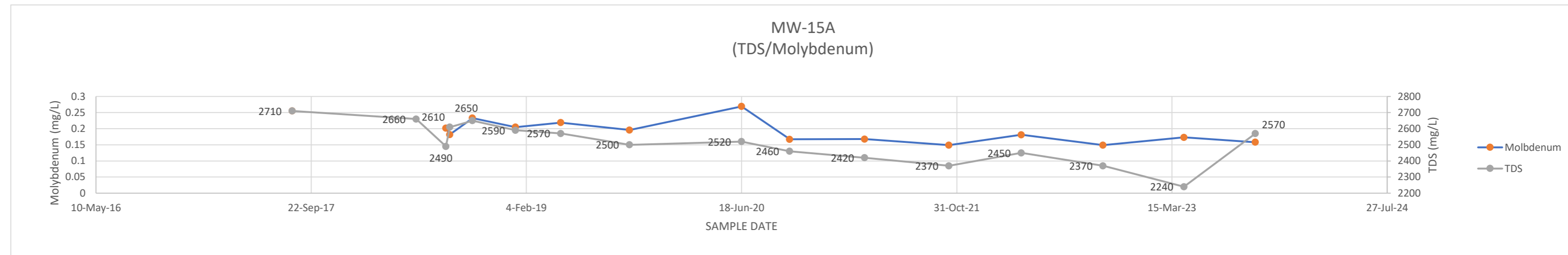
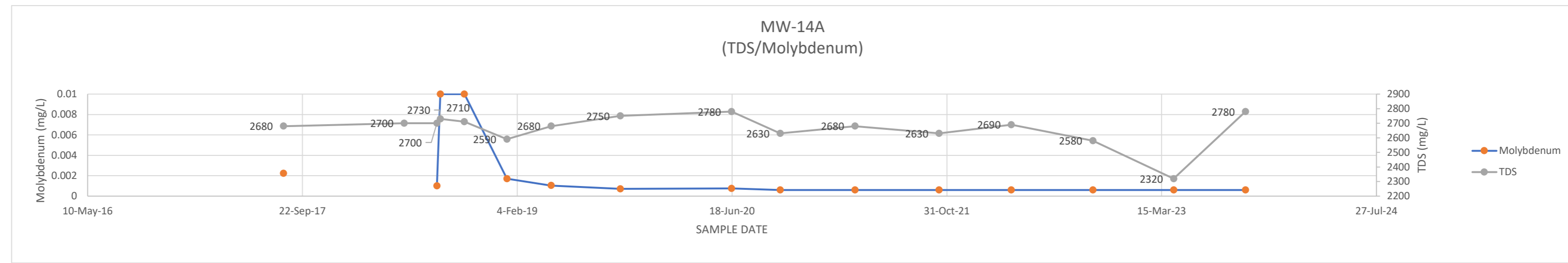
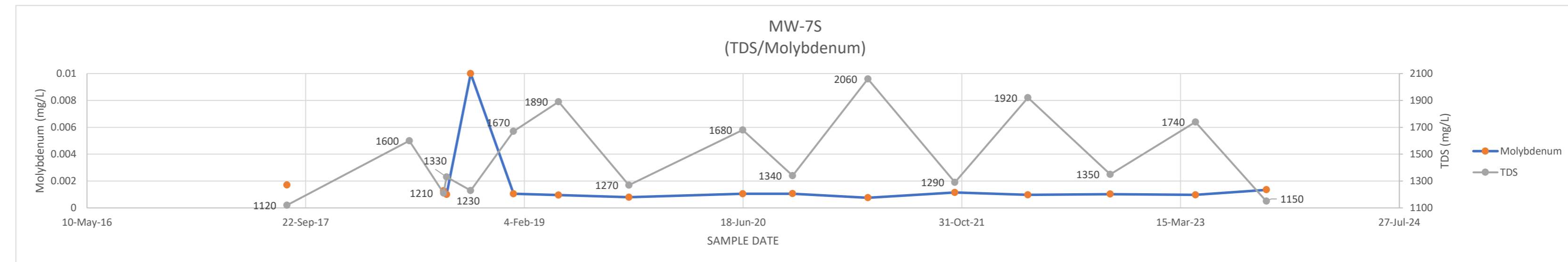
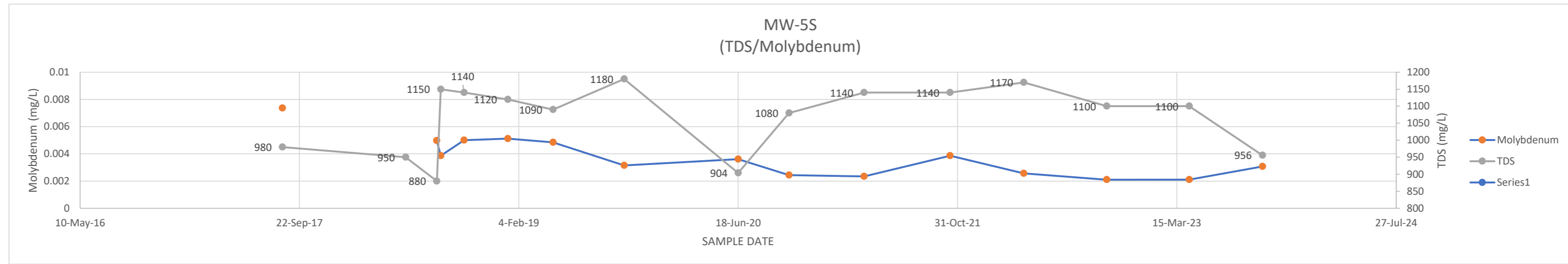
MW-5S	DATE	TDS	MOLYBDENUM
	14-Aug-17	980	0.00737
	22-May-18	950	
	1-Aug-18	880	0.00497
	10-Aug-18	1150	0.00387
	2-Oct-18	1140	0.005
	10-Jan-19	1120	0.00512
	23-Apr-19	1090	0.00485
	2-Oct-19	1180	0.00315
	18-Jun-20	904	0.00361
	12-Oct-20	1080	0.00244
	1-Apr-21	1140	0.00234
	14-Oct-21	1140	0.00387
	31-Mar-22	1170	0.00257
	6-Oct-22	1100	0.0021
	12-Apr-23	1100	0.00211
	26-Sep-23	956	0.00307

Value denoted in red from June 2022 resample

MW-7S	DATE	TDS	MOLYBDENUM
	10-Aug-17	1120	0.00171
	17-May-18	1600	
	3-Aug-18	1210	0.00127
	10-Aug-18	1330	0.001
	4-Oct-18	1230	0.01
	10-Jan-19	1670	0.00105
	23-Apr-19	1890	0.000952
	1-Oct-19	1270	0.000798
	17-Jun-20	1680	0.00105
	9-Oct-20	1340	0.00106
	30-Mar-21	2060	0.000755
	15-Oct-21	1290	0.00115
	31-Mar-22	1920	0.000973
	5-Oct-22	1350	0.00103
	18-Apr-23	1740	0.000973
	27-Sep-23	1150	0.00135

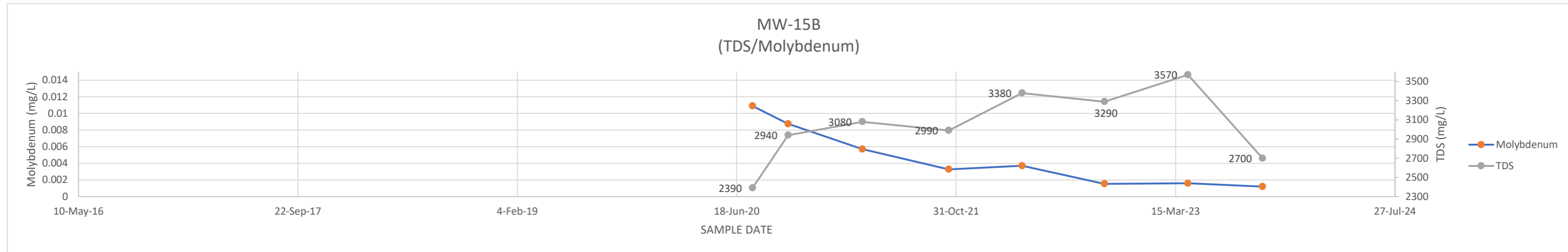
MW-14A	DATE	TDS	MOLYBDENUM
	9-Aug-17	2680	0.00223
	17-May-18	2700	
	1-Aug-18	2700	0.001
	9-Aug-18	2730	0.01
	4-Oct-18	2710	0.01
	11-Jan-19	2590	0.0017
	24-Apr-19	2680	0.00104
	2-Oct-19	2750	0.000709
	17-Jun-20	2780	0.00076
	8-Oct-20	2630	0.0006
	31-Mar-21	2680	0.0006
	13-Oct-21	2630	0.0006
	30-Mar-22	2690	0.0006
	6-Oct-22	2580	0.0006
	12-Apr-23	2320	0.0006
	26-Sep-23	2780	0.0006

MW-15A	DATE	TDS	MOLYBDENUM
	9-Aug-17	2710	0.255
	24-May-18	2660	
	1-Aug-18	2490	0.202
	10-Aug-18	2610	0.182
	2-Oct-18	2650	0.233
	10-Jan-19	2590	0.205
	25-Apr-19	2570	0.219
	2-Oct-19	2500	0.196
	18-Jun-20	2520	0.269
	8-Oct-20	2460	0.167
	31-Mar-21	2420	0.168
	13-Oct-21	2370	0.149
	30-Mar-22	2450	0.181
	6-Oct-22	2370	0.149
	12-Apr-23	2240	0.173
	25-Sep-23	2570	0.158

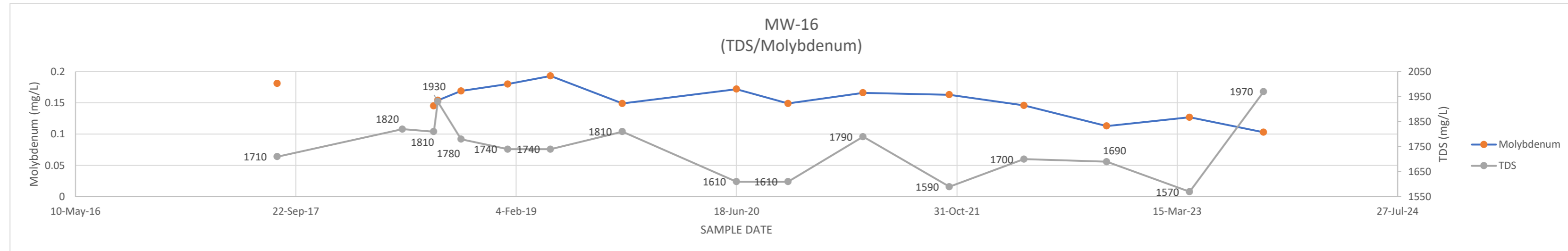


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

MW-15B	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2390	0.0109
13-Oct-20	2940	0.00876
31-Mar-21	3080	0.00571
14-Oct-21	2990	0.00328
30-Mar-22	3380	0.0037
4-Oct-22	3290	0.00153
12-Apr-23	3570	0.0016
29-Sep-23	2700	0.0012

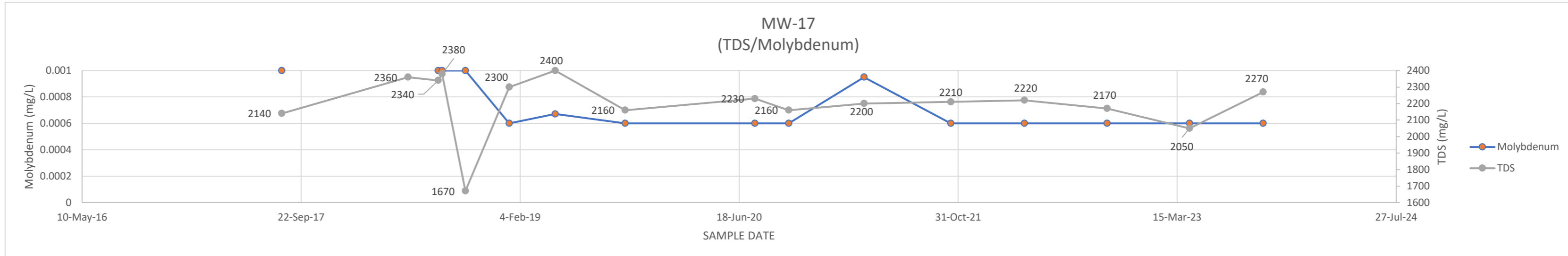


MW-16	TDS	MOLYBDENUM
DATE		
11-Aug-17	1710	0.181
22-May-18	1820	
1-Aug-18	1810	0.145
10-Aug-18	1930	0.154
2-Oct-18	1780	0.169
16-Jan-19	1740	0.18
23-Apr-19	1740	0.193
3-Oct-19	1810	0.149
18-Jun-20	1610	0.172
13-Oct-20	1610	0.149
1-Apr-21	1790	0.166
14-Oct-21	1590	0.163
1-Apr-22	1700	0.146
6-Oct-22	1690	0.113
12-Apr-23	1570	0.127
27-Sep-23	1970	0.103



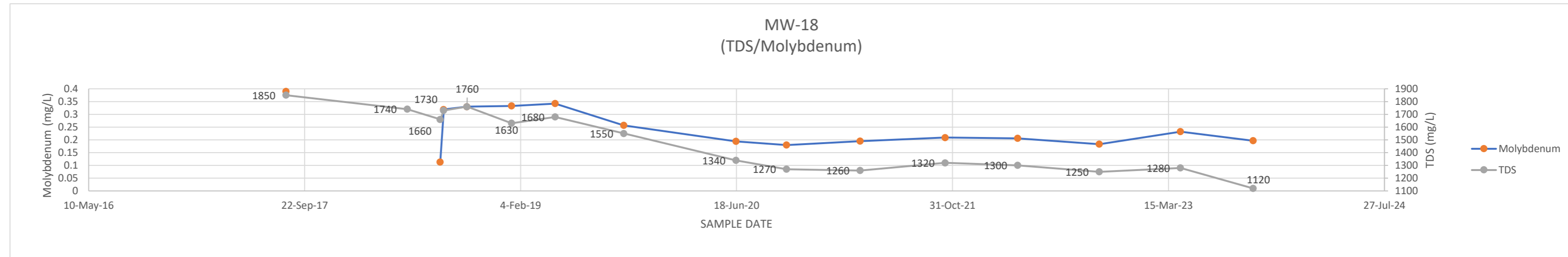
Value denoted in red from June 2022 resample

MW-17	TDS	MOLYBDENUM
DATE		
9-Aug-17	2140	0.001
24-May-18	2360	
1-Aug-18	2340	0.001
10-Aug-18	2380	0.001
2-Oct-18	1670	0.001
10-Jan-19	2300	0.0006
25-Apr-19	2400	0.000671
2-Oct-19	2160	0.0006
24-Jul-20	2230	0.0006
9-Oct-20	2160	0.0006
30-Mar-21	2200	0.00095
14-Oct-21	2210	0.0006
31-Mar-22	2220	0.0006
6-Oct-22	2170	0.0006
12-Apr-23	2050	0.0006
27-Sep-23	2270	0.0006



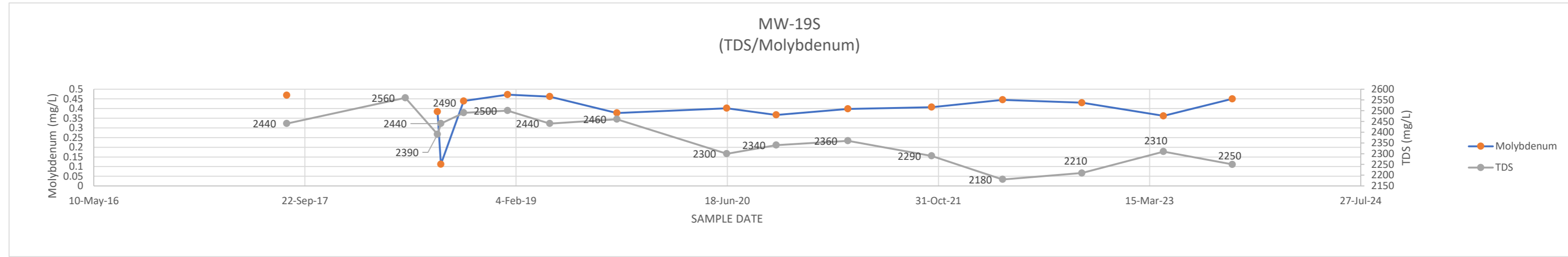
Value denoted in red from June 2022 resample

MW-18	TDS	MOLYBDENUM
DATE		
10-Aug-17	1850	0.39
18-May-18	1740	
2-Aug-18	1660	0.113
10-Aug-18	1730	0.319
3-Oct-18	1760	0.33
14-Jan-19	1630	0.333
25-Apr-19	1680	0.342
1-Oct-19	1550	0.257
17-Jun-20	1340	0.194
12-Oct-20	1270	0.18
31-Mar-21	1260	0.195
14-Oct-21	1320	0.209
31-Mar-22	1300	0.206
6-Oct-22	1250	0.183
12-Apr-23	1280	0.232
27-Sep-23	1120	0.197

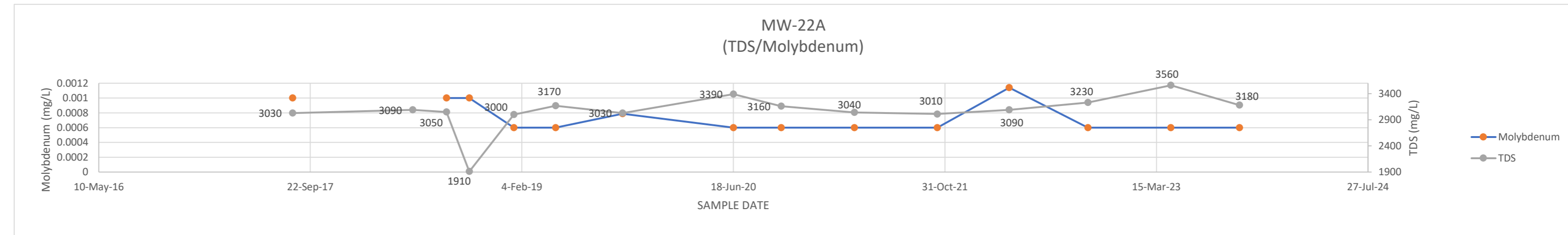


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

MW-19S	TDS	MOLYBDENUM
DATE		
10-Aug-17	2440	0.469
18-May-18	2560	
2-Aug-18	2390	0.384
10-Aug-18	2440	0.112
3-Oct-18	2490	0.439
15-Jan-19	2500	0.472
25-Apr-19	2440	0.462
1-Oct-19	2460	0.377
17-Jun-20	2300	0.402
12-Oct-20	2340	0.367
31-Mar-21	2360	0.398
15-Oct-21	2290	0.407
1-Apr-22	2180	0.445
6-Oct-22	2210	0.43
17-Apr-23	2310	0.362
27-Sep-23	2250	0.45

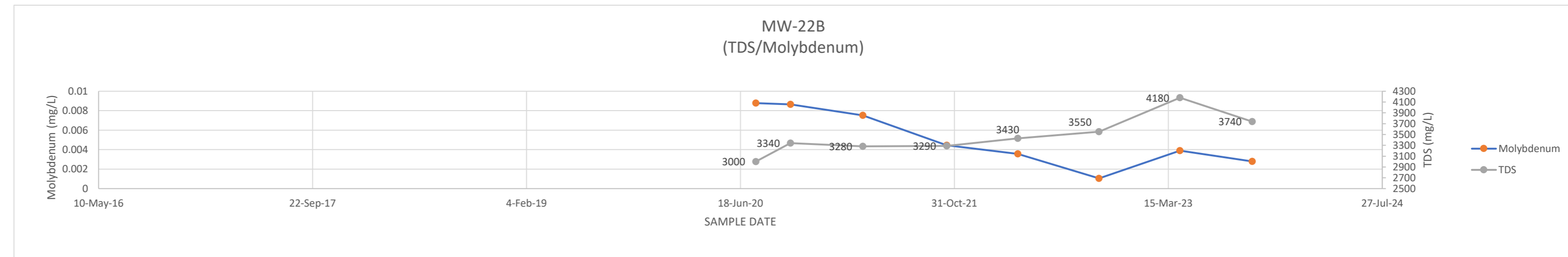


MW-22A	TDS	MOLYBDENUM
DATE		
11-Aug-17	3030	0.001
22-May-18	3090	
10-Aug-18	3050	0.001
3-Oct-18	1910	0.001
16-Jan-19	3000	0.0006
25-Apr-19	3170	0.0006
30-Sep-19	3030	0.000787
18-Jun-20	3390	0.0006
9-Oct-20	3160	0.0006
31-Mar-21	3040	0.0006
13-Oct-21	3010	0.0006
1-Apr-22	3090	0.00114
4-Oct-22	3230	0.0006
18-Apr-23	3560	0.0006
27-Sep-23	3180	0.0006

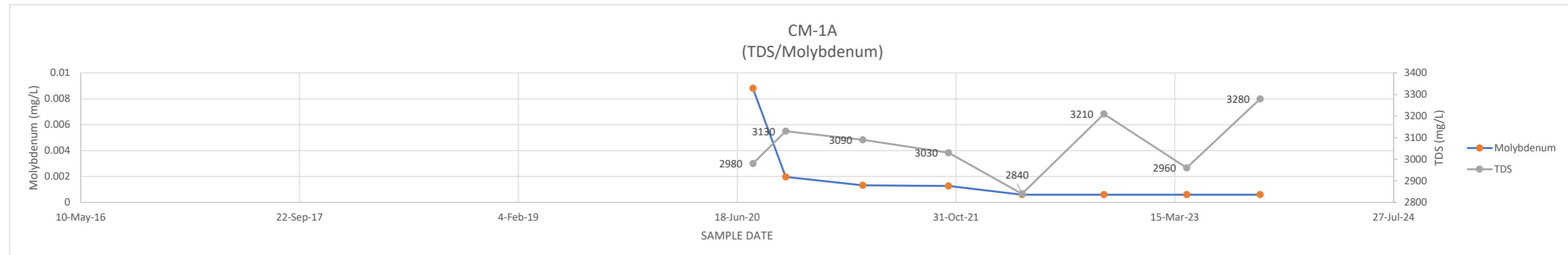


Value denoted in red from June 2022 resample

MW-22B	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3000	0.00878
13-Oct-20	3340	0.00866
31-Mar-21	3280	0.00753
13-Oct-21	3290	0.00446
28-Mar-22	3430	0.00357
4-Oct-22	3550	0.00105
11-Apr-23	4180	0.00389
27-Sep-23	3740	0.0028

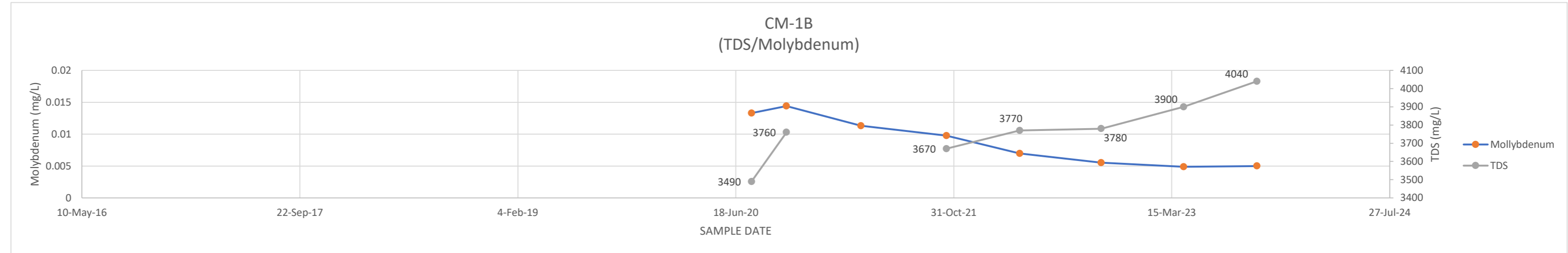


CM-1A	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2980	0.0088
7-Oct-20	3130	0.00198
1-Apr-21	3090	0.00132
14-Oct-21	3030	0.00127
31-Mar-22	2840	0.0006
4-Oct-22	3210	0.0006
11-Apr-23	2960	0.0006
26-Sep-23	3280	0.0006

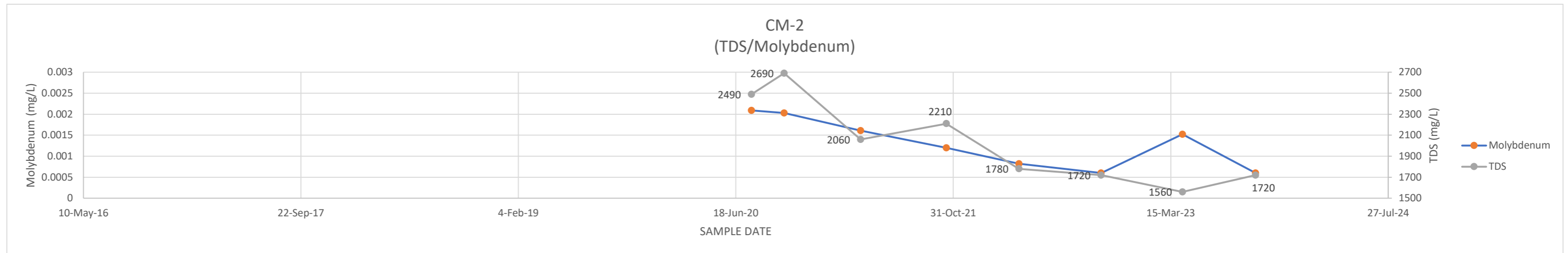


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

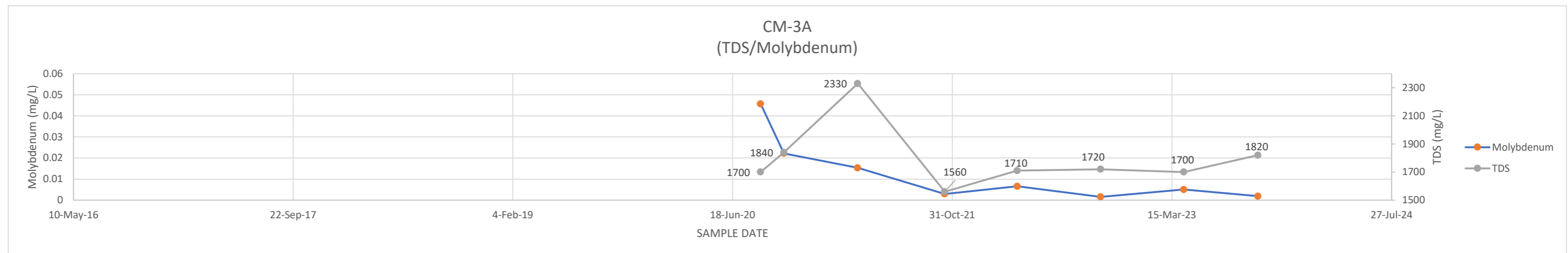
CM-1B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3490	0.0133
12-Oct-20	3760	0.0144
1-Apr-21		0.0113
14-Oct-21	3670	0.00976
31-Mar-22	3770	0.00696
4-Oct-22	3780	0.00551
11-Apr-23	3900	0.00488
26-Sep-23	4040	0.005



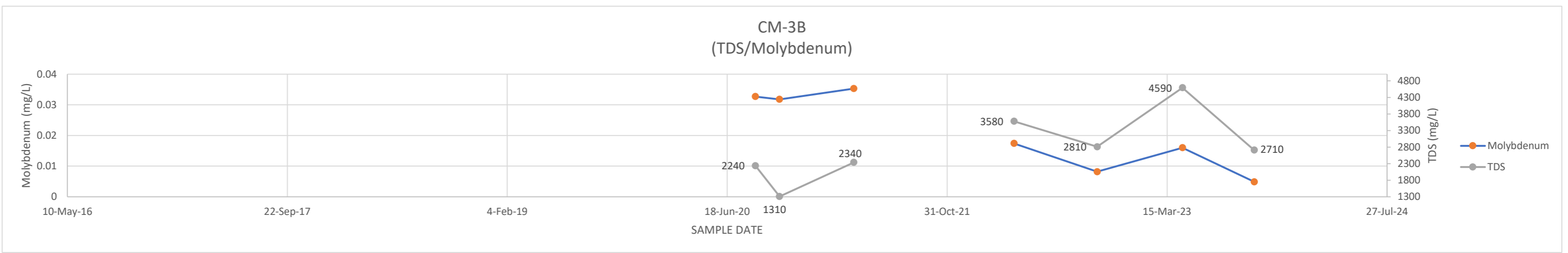
CM-2 DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2490	0.00209
7-Oct-20	2690	0.00203
1-Apr-21	2060	0.00161
15-Oct-21	2210	0.0012
31-Mar-22	1780	0.00082
6-Oct-22	1720	0.0006
11-Apr-23	1560	0.00152
26-Sep-23	1720	0.0006



CM-3A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1700	0.0457
13-Oct-20	1840	0.0222
30-Mar-21	2330	0.0153
14-Oct-21	1560	0.00297
28-Mar-22	1710	0.00656
4-Oct-22	1720	0.00155
11-Apr-23	1700	0.00503
27-Sep-23	1820	0.00187

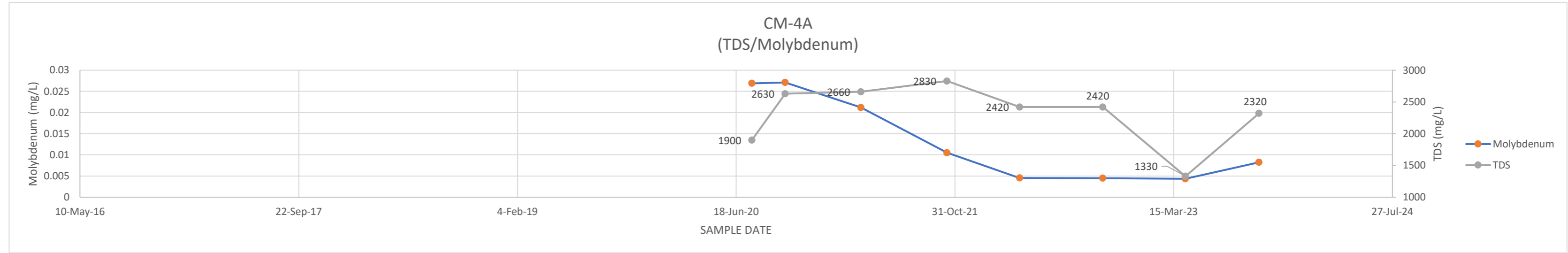


CM-3B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	2240	0.0327
15-Oct-20	1310	0.0318
2-Apr-21	2340	0.0353
11-Oct-21		
1-Apr-22	3580	0.0174
7-Oct-22	2810	0.00819
19-Apr-23	4590	0.016
29-Sep-23	2710	0.0049

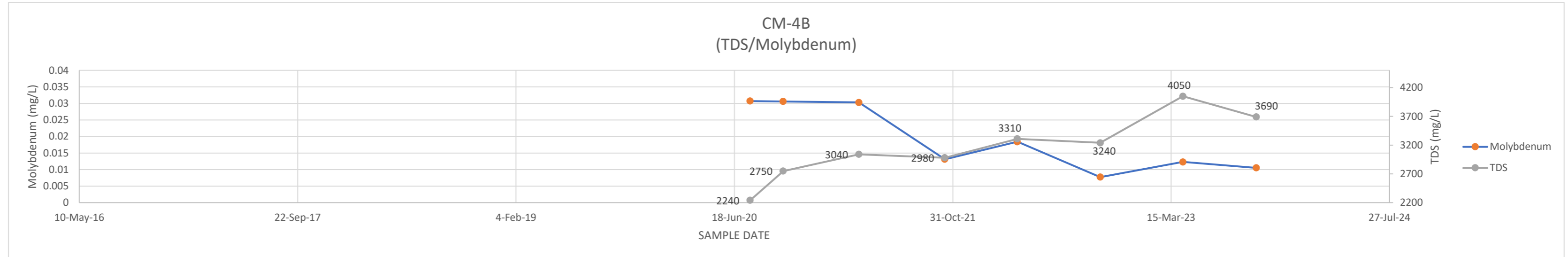


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

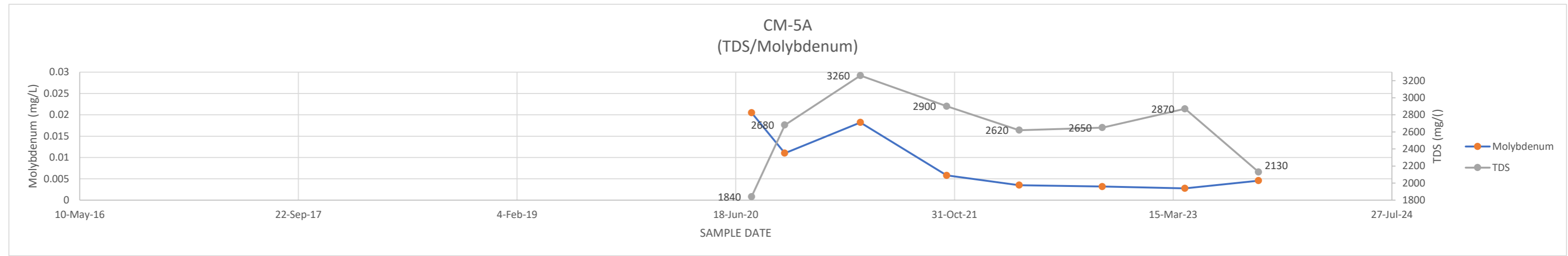
CM-4A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1900	0.0269
8-Oct-20	2630	0.0271
30-Mar-21	2660	0.0212
13-Oct-21	2830	0.0105
28-Mar-22	2420	0.00455
4-Oct-22	2420	0.00449
11-Apr-23	1330	0.00436
26-Sep-23	2320	0.00825



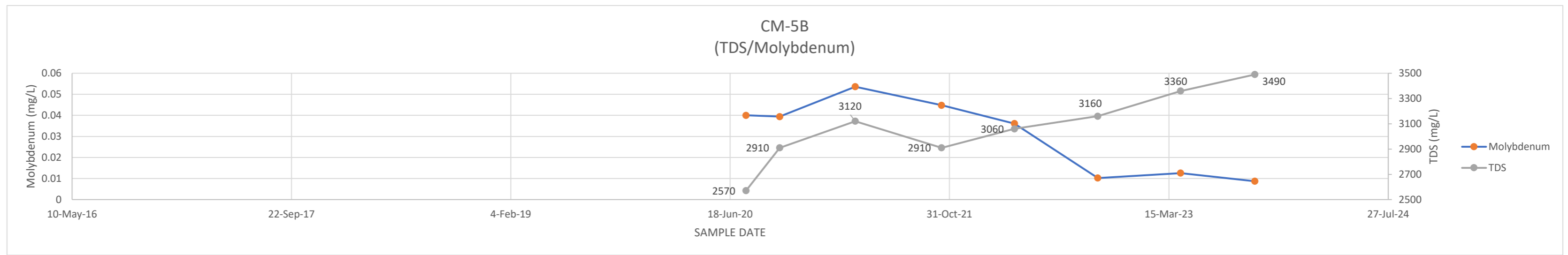
CM-4B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2240	0.0307
8-Oct-20	2750	0.0306
30-Mar-21	3040	0.0303
13-Oct-21	2980	0.0131
28-Mar-22	3310	0.0184
4-Oct-22	3240	0.00771
11-Apr-23	4050	0.0123
26-Sep-23	3690	0.0105



CM-5A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1840	0.0205
8-Oct-20	2680	0.011
30-Mar-21	3260	0.0182
13-Oct-21	2900	0.0058
28-Mar-22	2620	0.00351
4-Oct-22	2650	0.00317
11-Apr-23	2870	0.00276
26-Sep-23	2130	0.00455



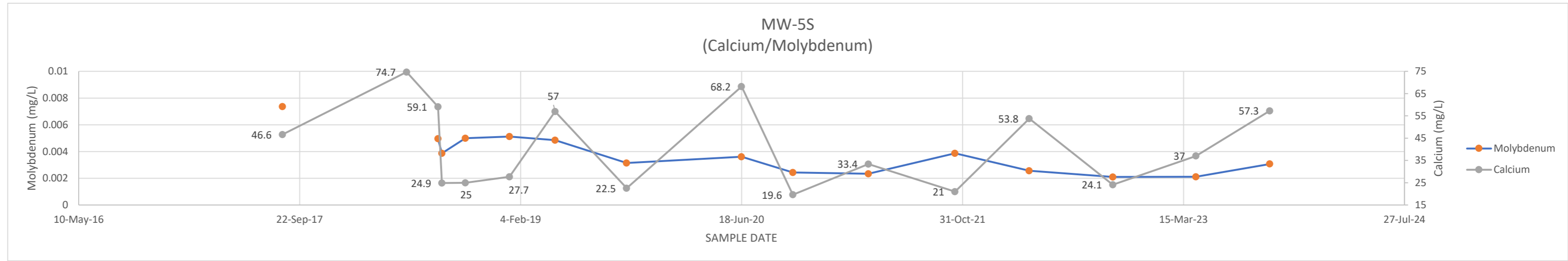
CM-5B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2570	0.04
9-Oct-20	2910	0.0394
30-Mar-21	3120	0.0536
13-Oct-21	2910	0.0448
28-Mar-22	3060	0.0361
4-Oct-22	3160	0.0102
11-Apr-23	3360	0.0126
27-Sep-23	3490	0.00871



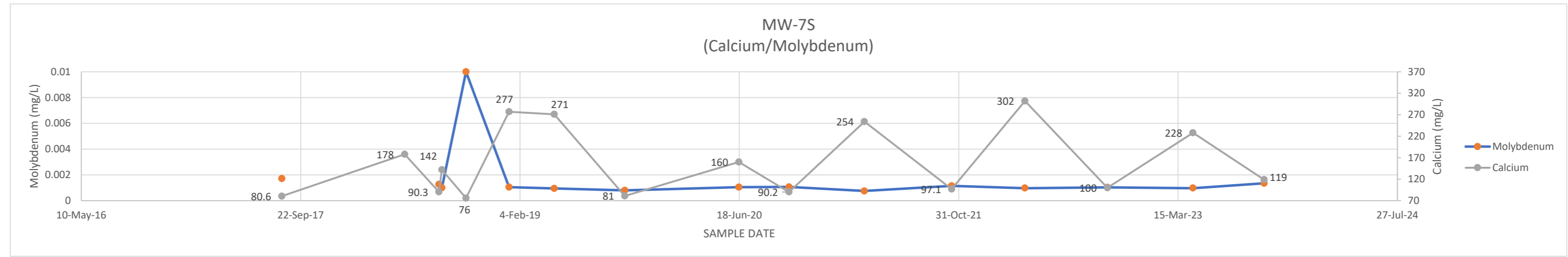
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

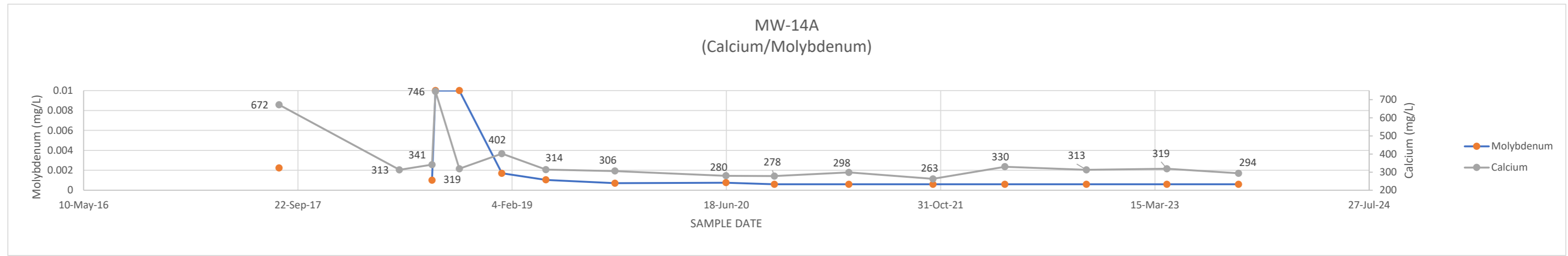
MW-5S	DATE	CALCIUM	MOLYBDENUM
14-Aug-17		46.6	0.00737
22-May-18		74.7	
1-Aug-18		59.1	0.00497
10-Aug-18		24.9	0.00387
2-Oct-18		25	0.005
10-Jan-19		27.7	0.00512
23-Apr-19		57	0.00485
2-Oct-19		22.5	0.00315
18-Jun-20		68.2	0.00361
12-Oct-20		19.6	0.00244
1-Apr-21		33.4	0.00234
14-Oct-21		21	0.00387
31-Mar-22		53.8	0.00257
6-Oct-22		24.1	0.0021
12-Apr-23		37	0.00211
26-Sep-23		57.3	0.00307



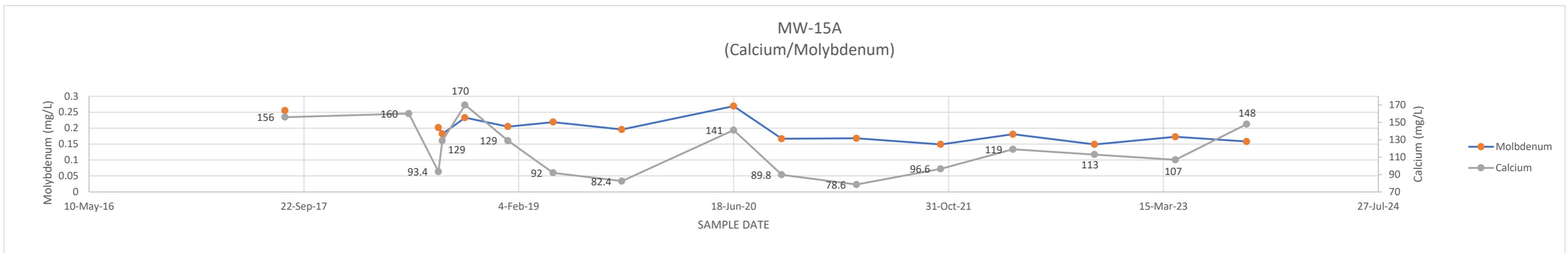
MW-7S	DATE	CALCIUM	MOLYBDENUM
10-Aug-17		80.6	0.00171
17-May-18		178	
3-Aug-18		90.3	0.00127
10-Aug-18		142	0.001
4-Oct-18		76	0.01
10-Jan-19		277	0.00105
23-Apr-19		271	0.000952
1-Oct-19		81	0.000798
17-Jun-20		160	0.00105
9-Oct-20		90.2	0.00106
30-Mar-21		254	0.000755
15-Oct-21		97.1	0.00115
31-Mar-22		302	0.000973
5-Oct-22		100	0.00103
18-Apr-23		228	0.000973
27-Sep-23		119	0.00135



MW-14A	DATE	CALCIUM	MOLYBDENUM
9-Aug-17		672	0.00223
17-May-18		313	
1-Aug-18		341	0.001
9-Aug-18		746	0.01
4-Oct-18		319	0.01
11-Jan-19		402	0.0017
24-Apr-19		314	0.00104
2-Oct-19		306	0.000709
17-Jun-20		280	0.00076
8-Oct-20		278	0.0006
31-Mar-21		298	0.0006
13-Oct-21		263	0.0006
30-Mar-22		330	0.0006
6-Oct-22		313	0.0006
12-Apr-23		319	0.0006
26-Sep-23		294	0.0006

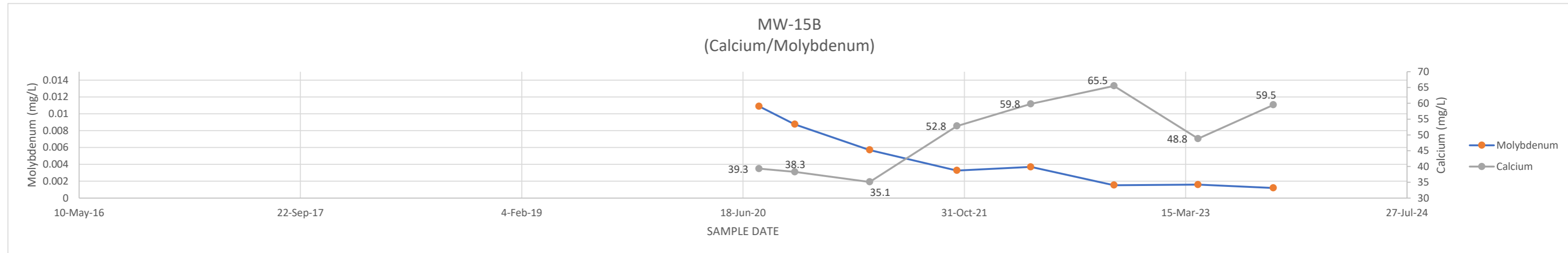


MW-15A	DATE	CALCIUM	MOLYBDENUM
9-Aug-17		156	0.255
24-May-18		160	
1-Aug-18		93.4	0.202
10-Aug-18		129	0.182
2-Oct-18		170	0.233
10-Jan-19		129	0.205
25-Apr-19		92	0.219
2-Oct-19		82.4	0.196
18-Jun-20		141	0.269
8-Oct-20		89.8	0.167
31-Mar-21		78.6	0.168
13-Oct-21		96.6	0.149
30-Mar-22		119	0.181
6-Oct-22		113	0.149
12-Apr-23		107	0.173
25-Sep-23		148	0.158

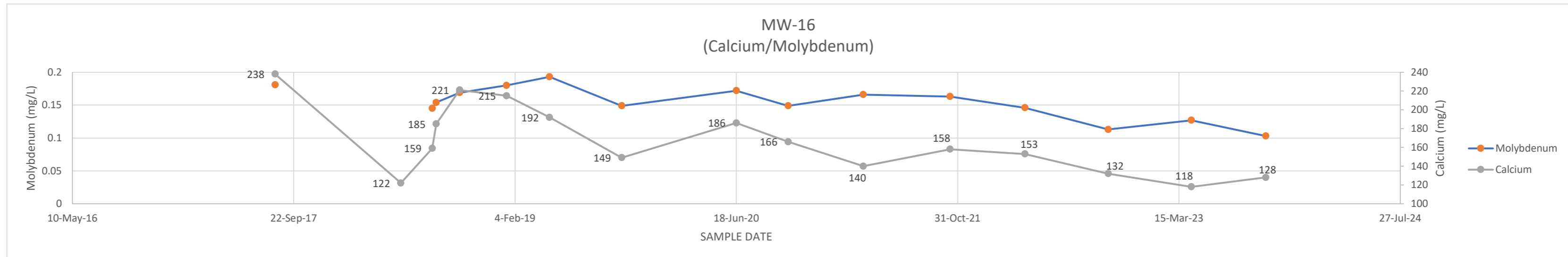


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

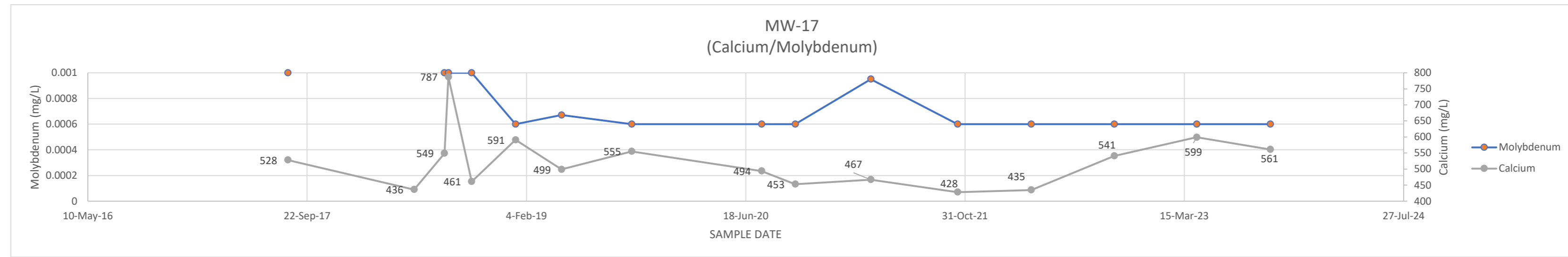
MW-15B	CALCIUM	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	39.3	0.0109
13-Oct-20	38.3	0.00876
31-Mar-21	35.1	0.00571
14-Oct-21	52.8	0.00328
30-Mar-22	59.8	0.0037
4-Oct-22	65.5	0.00153
12-Apr-23	48.8	0.0016
29-Sep-23	59.5	0.0012



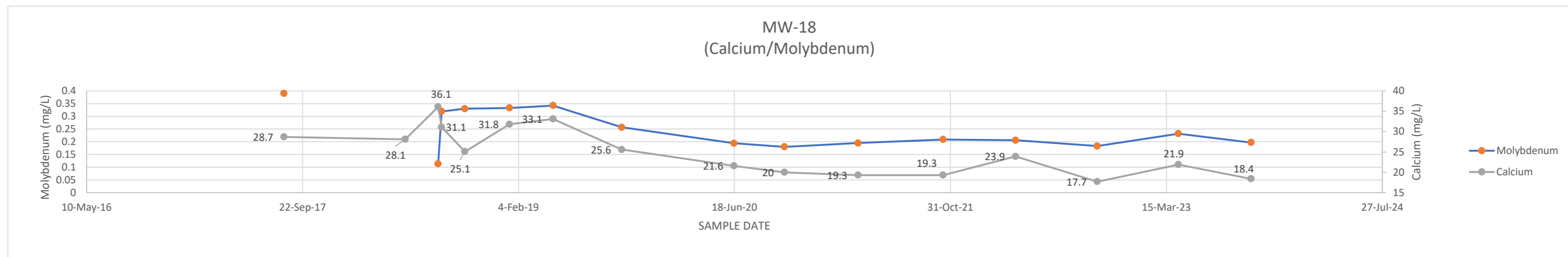
MW-16	CALCIUM	MOLYBDENUM
DATE		
11-Aug-17	238	0.181
22-May-18	122	
1-Aug-18	159	0.145
10-Aug-18	185	0.154
2-Oct-18	221	0.169
16-Jan-19	215	0.18
23-Apr-19	192	0.193
3-Oct-19	149	0.149
18-Jun-20	186	0.172
13-Oct-20	166	0.149
1-Apr-21	140	0.166
14-Oct-21	158	0.163
1-Apr-22	153	0.146
6-Oct-22	132	0.113
12-Apr-23	118	0.127
27-Sep-23	128	0.103



MW-17	CALCIUM	MOLYBDENUM
DATE		
9-Aug-17	528	0.001
24-May-18	436	
1-Aug-18	549	0.001
10-Aug-18	787	0.001
2-Oct-18	461	0.001
10-Jan-19	591	0.0006
25-Apr-19	499	0.000671
2-Oct-19	555	0.0006
24-Jul-20	494	0.0006
9-Oct-20	453	0.0006
30-Mar-21	467	0.00095
14-Oct-21	428	0.0006
31-Mar-22	435	0.0006
6-Oct-22	541	0.0006
12-Apr-23	599	0.0006
27-Sep-23	561	0.0006

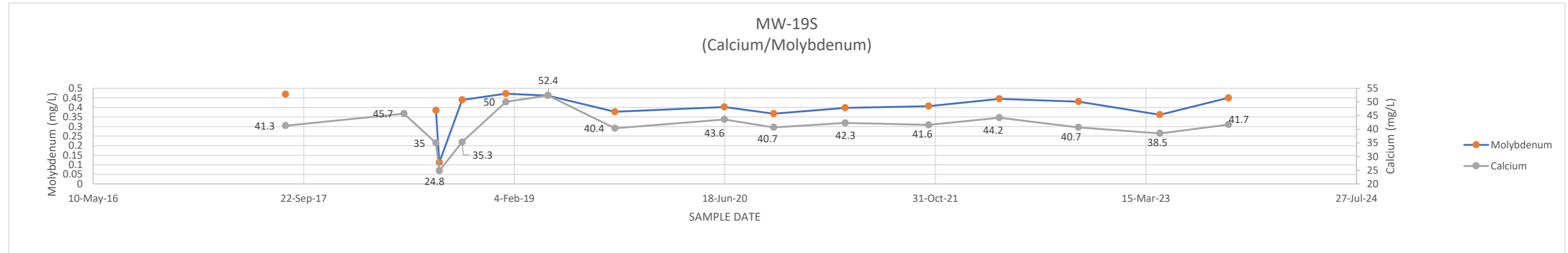


MW-18	CALCIUM	MOLYBDENUM
DATE		
10-Aug-17	28.7	0.39
18-May-18	28.1	
2-Aug-18	36.1	0.113
10-Aug-18	31.1	0.319
3-Oct-18	25.1	0.33
14-Jan-19	31.8	0.333
25-Apr-19	33.1	0.342
1-Oct-19	25.6	0.257
17-Jun-20	21.6	0.194
12-Oct-20	20	0.18
31-Mar-21	19.3	0.195
14-Oct-21	19.3	0.209
31-Mar-22	23.9	0.206
6-Oct-22	17.7	0.183
12-Apr-23	21.9	0.232
27-Sep-23	18.4	0.197

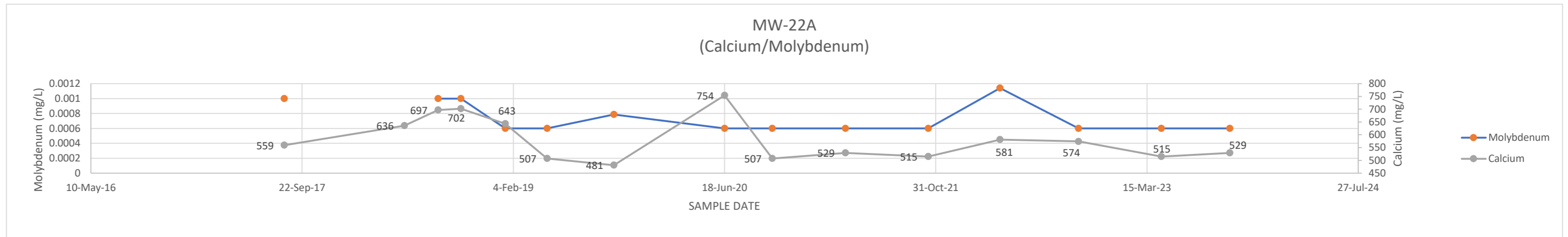


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

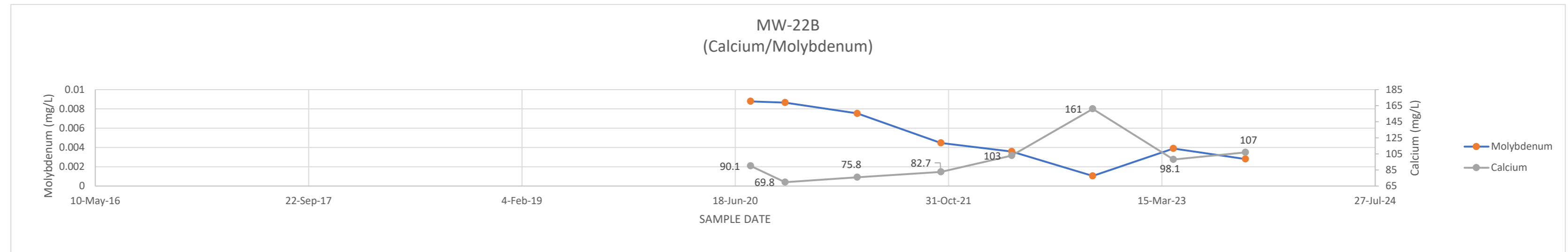
MW-19S DATE	CALCIUM	MOLYBDENUM
10-Aug-17	41.3	0.469
18-May-18	45.7	
2-Aug-18	35	0.384
10-Aug-18	24.8	0.112
3-Oct-18	35.3	0.439
15-Jan-19	50	0.472
25-Apr-19	52.4	0.462
1-Oct-19	40.4	0.377
17-Jun-20	43.6	0.402
12-Oct-20	40.7	0.367
31-Mar-21	42.3	0.398
15-Oct-21	41.6	0.407
1-Apr-22	44.2	0.445
6-Oct-22	40.7	0.43
17-Apr-23	38.5	0.362
27-Sep-23	41.7	0.45



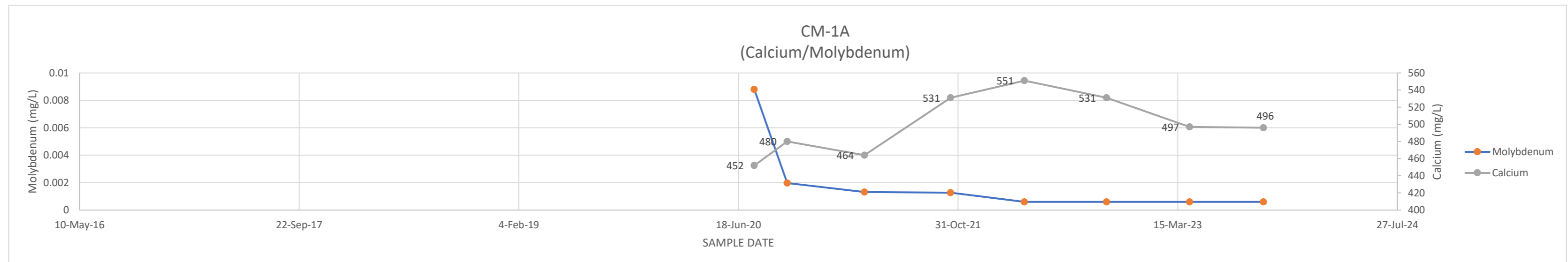
MW-22A DATE	CALCIUM	MOLYBDENUM
11-Aug-17	559	0.001
22-May-18	636	
10-Aug-18	697	0.001
3-Oct-18	702	0.001
16-Jan-19	643	0.0006
25-Apr-19	507	0.0006
30-Sep-19	481	0.000787
18-Jun-20	754	0.0006
9-Oct-20	507	0.0006
31-Mar-21	529	0.0006
13-Oct-21	515	0.0006
1-Apr-22	581	0.00114
4-Oct-22	574	0.0006
18-Apr-23	515	0.0006
27-Sep-23	529	0.0006



MW-22B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	90.1	0.00878
13-Oct-20	69.8	0.00866
31-Mar-21	75.8	0.00753
13-Oct-21	82.7	0.00446
28-Mar-22	103	0.00357
4-Oct-22	161	0.00105
11-Apr-23	98.1	0.00389
27-Sep-23	107	0.0028

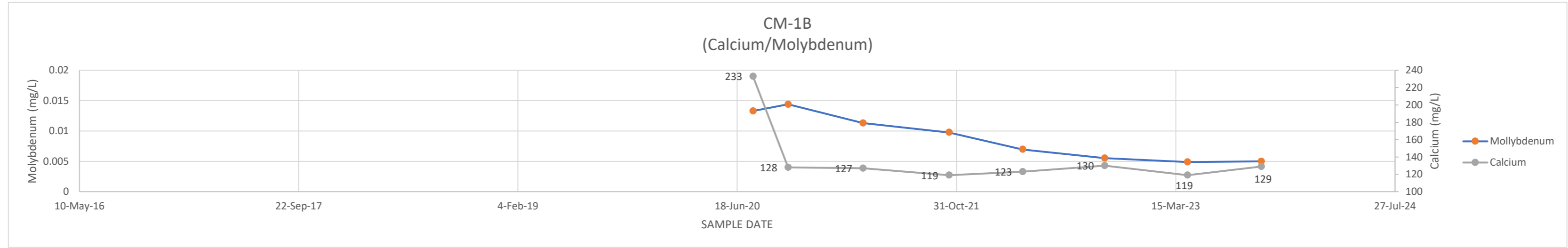


CM-1A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	452	0.0088
7-Oct-20	480	0.00198
1-Apr-21	464	0.00132
14-Oct-21	531	0.00127
31-Mar-22	551	0.0006
4-Oct-22	531	0.0006
11-Apr-23	497	0.0006
26-Sep-23	496	0.0006

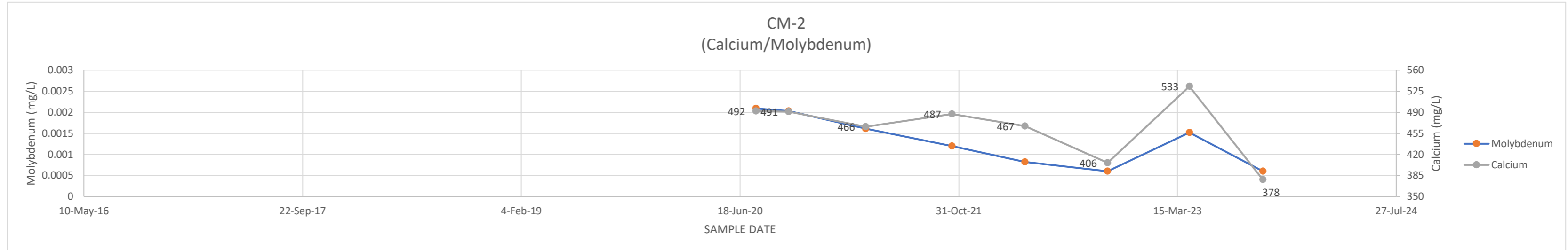


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

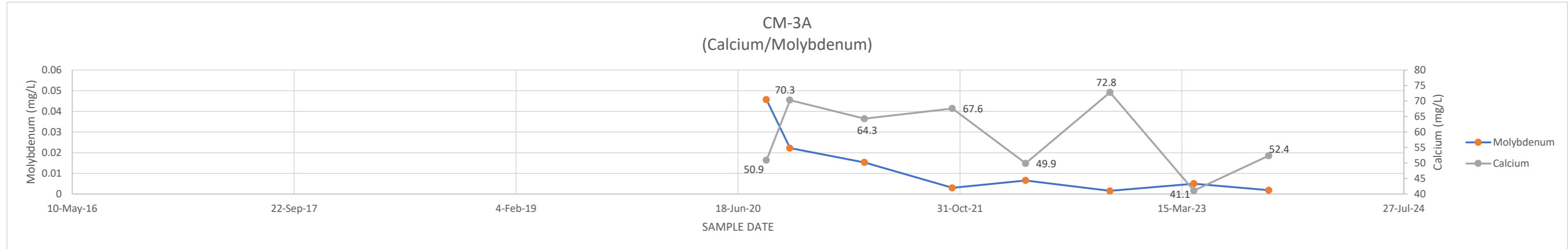
CM-1B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	233	0.0133
12-Oct-20	128	0.0144
1-Apr-21	127	0.0113
14-Oct-21	119	0.00976
31-Mar-22	123	0.00696
4-Oct-22	130	0.00551
11-Apr-23	119	0.00488
26-Sep-23	129	0.005



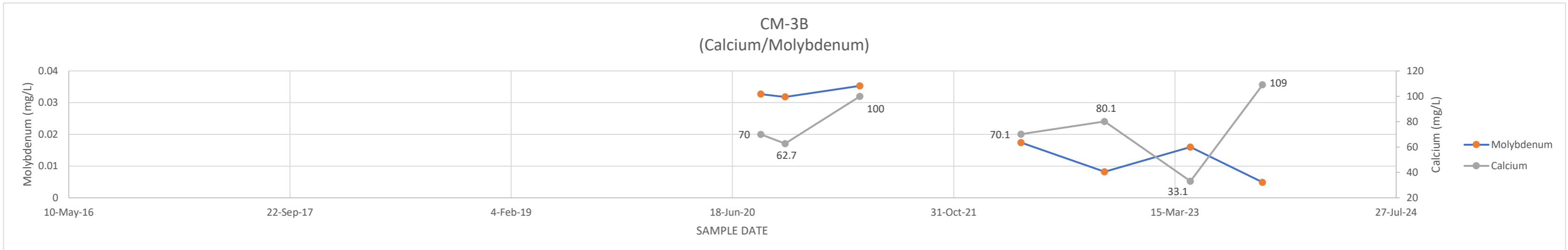
CM-2 DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	492	0.00209
7-Oct-20	491	0.00203
1-Apr-21	466	0.00161
15-Oct-21	487	0.0012
31-Mar-22	467	0.00082
6-Oct-22	406	0.0006
11-Apr-23	533	0.00152
26-Sep-23	378	0.0006



CM-3A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	50.9	0.0457
13-Oct-20	70.3	0.0222
30-Mar-21	64.3	0.0153
14-Oct-21	67.6	0.00297
28-Mar-22	49.9	0.00656
4-Oct-22	72.8	0.00155
11-Apr-23	41.1	0.00503
27-Sep-23	52.4	0.00187

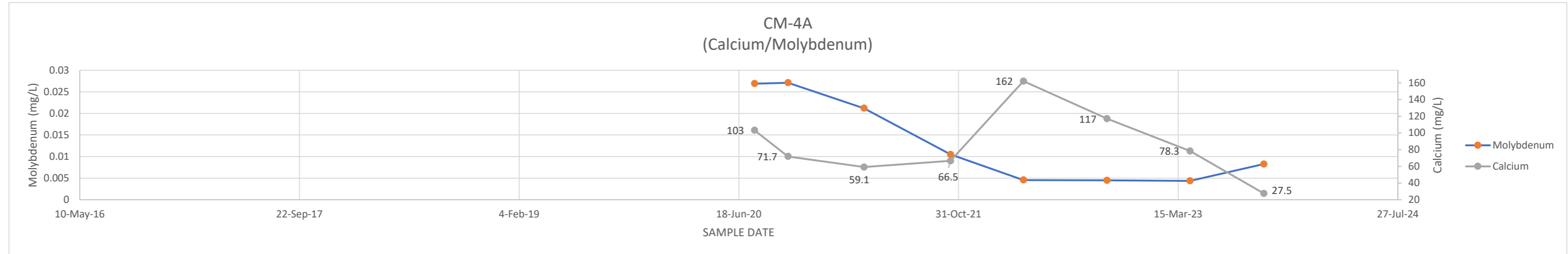


CM-3B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	70	0.0327
15-Oct-20	62.7	0.0318
2-Apr-21	100	0.0353
11-Oct-21		
1-Apr-22	70.1	0.0174
7-Oct-22	80.1	0.00819
19-Apr-23	33.1	0.016
29-Sep-23	109	0.0049

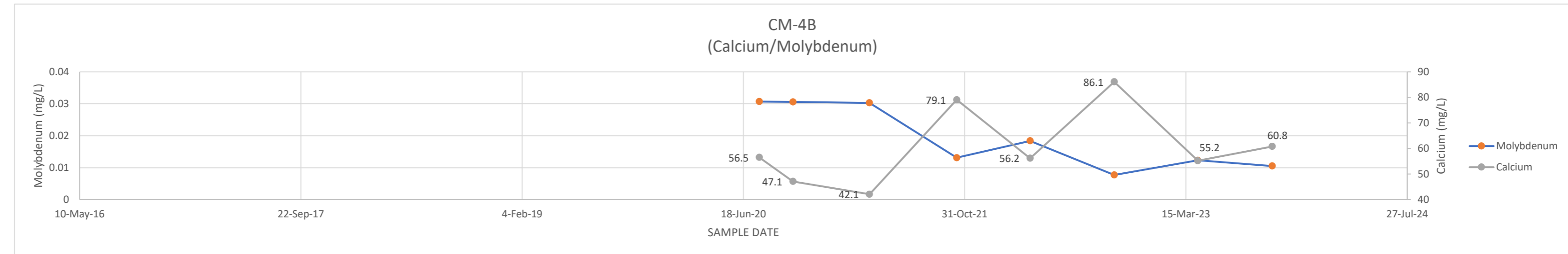


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

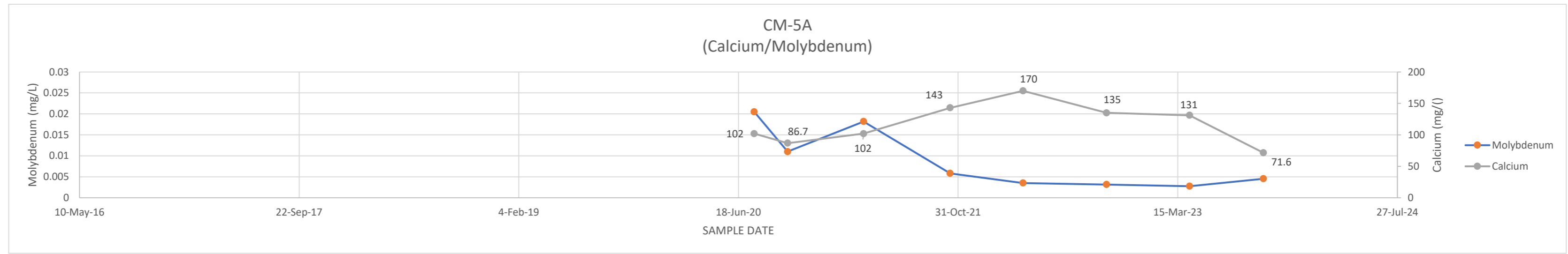
CM-4A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	103	0.0269
8-Oct-20	71.7	0.0271
30-Mar-21	59.1	0.0212
13-Oct-21	66.5	0.0105
28-Mar-22	162	0.00455
4-Oct-22	117	0.00449
11-Apr-23	78.3	0.00436
26-Sep-23	27.5	0.00825



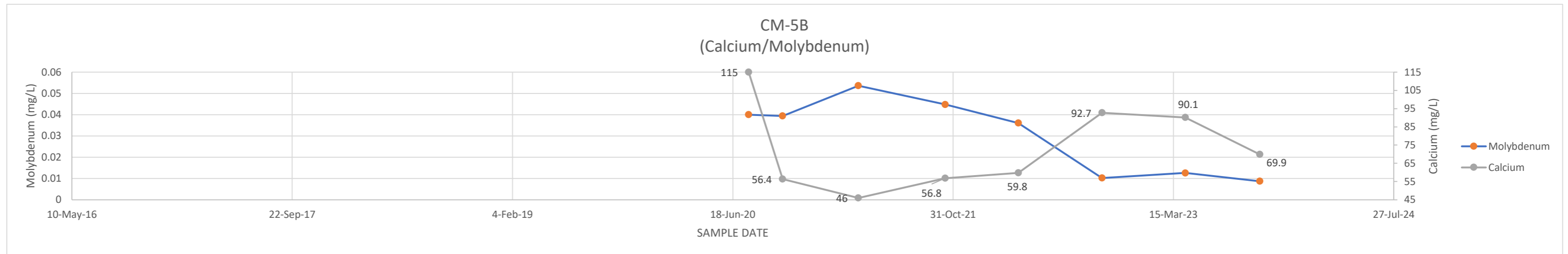
CM-4B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	56.5	0.0307
8-Oct-20	47.1	0.0306
30-Mar-21	42.1	0.0303
13-Oct-21	79.1	0.0131
28-Mar-22	56.2	0.0184
4-Oct-22	86.1	0.00771
11-Apr-23	55.2	0.0123
26-Sep-23	60.8	0.0105



CM-5A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	102	0.0205
8-Oct-20	86.7	0.011
30-Mar-21	102	0.0182
13-Oct-21	143	0.0058
28-Mar-22	170	0.00351
4-Oct-22	135	0.00317
11-Apr-23	131	0.00276
26-Sep-23	71.6	0.00455



CM-5B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	115	0.04
9-Oct-20	56.4	0.0394
30-Mar-21	46	0.0536
13-Oct-21	56.8	0.0448
28-Mar-22	59.8	0.0361
4-Oct-22	92.7	0.0102
11-Apr-23	90.1	0.0126
27-Sep-23	69.9	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

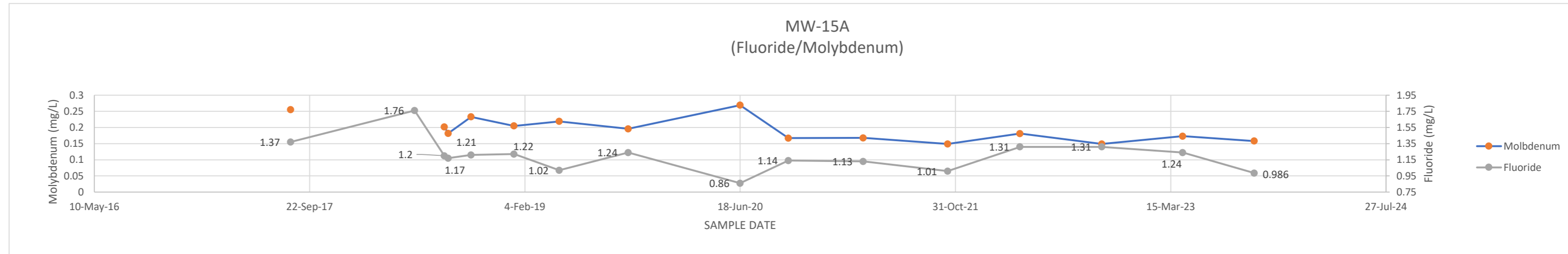
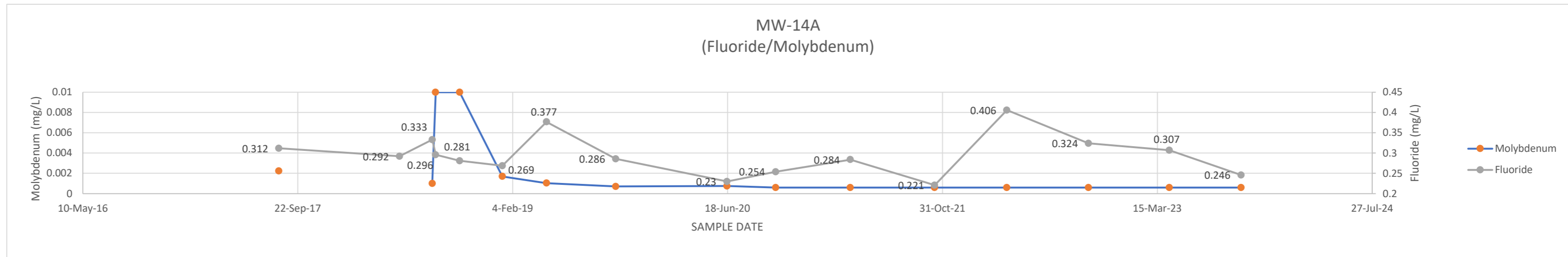
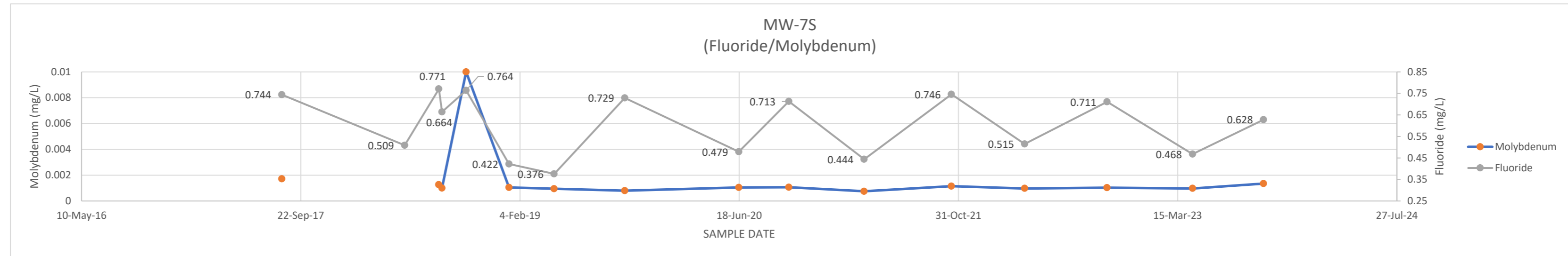
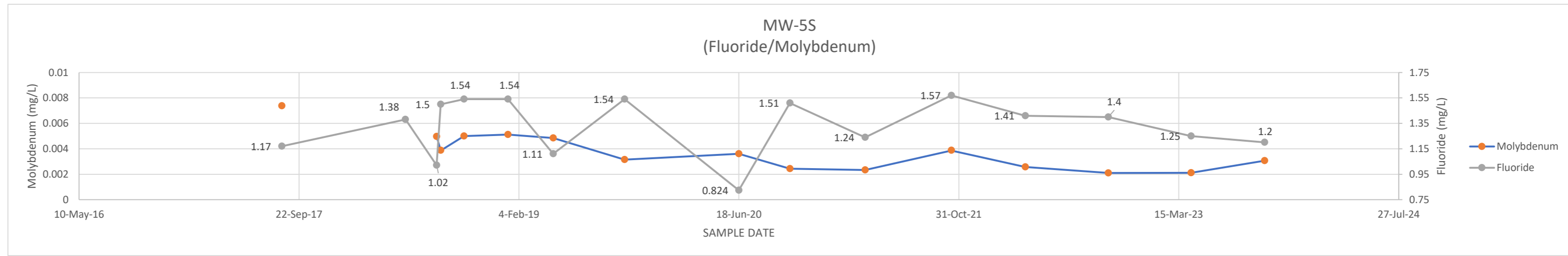
MW-5S	FLUORIDE	MOLYBDENUM
DATE		
14-Aug-17	1.17	0.00737
22-May-18	1.38	
1-Aug-18	1.02	0.00497
10-Aug-18	1.5	0.00387
2-Oct-18	1.54	0.005
10-Jan-19	1.54	0.00512
23-Apr-19	1.11	0.00485
2-Oct-19	1.54	0.00315
18-Jun-20	0.824	0.00361
12-Oct-20	1.51	0.00244
1-Apr-21	1.24	0.00234
14-Oct-21	1.57	0.00387
31-Mar-22	1.41	0.00257
6-Oct-22	1.4	0.0021
12-Apr-23	1.25	0.00211
26-Sep-23	1.2	0.00307

Value denoted in red from June 2022 resample

MW-7S	FLUORIDE	MOLYBDENUM
DATE		
10-Aug-17	0.744	0.00171
17-May-18	0.509	
3-Aug-18	0.771	0.00127
10-Aug-18	0.664	0.001
4-Oct-18	0.764	0.01
10-Jan-19	0.422	0.00105
23-Apr-19	0.376	0.000952
1-Oct-19	0.729	0.000798
17-Jun-20	0.479	0.00105
9-Oct-20	0.713	0.00106
30-Mar-21	0.444	0.000755
15-Oct-21	0.746	0.00115
31-Mar-22	0.515	0.000973
5-Oct-22	0.711	0.00103
18-Apr-23	0.468	0.000973
27-Sep-23	0.628	0.00135

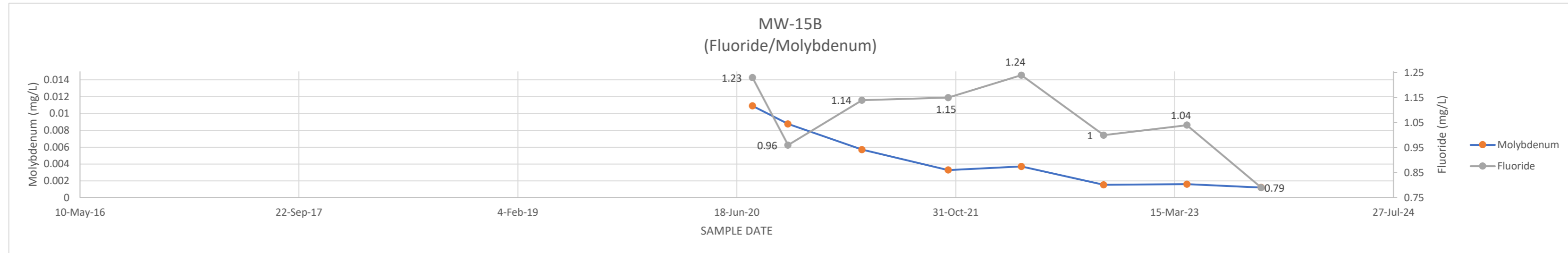
MW-14A	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17	0.312	0.00223
17-May-18	0.292	
1-Aug-18	0.333	0.001
9-Aug-18	0.296	0.01
4-Oct-18	0.281	0.01
11-Jan-19	0.269	0.0017
24-Apr-19	0.377	0.00104
2-Oct-19	0.286	0.000709
17-Jun-20	0.23	0.00076
8-Oct-20	0.254	0.0006
31-Mar-21	0.284	0.0006
13-Oct-21	0.221	0.0006
30-Mar-22	0.406	0.0006
6-Oct-22	0.324	0.0006
12-Apr-23	0.307	0.0006
26-Sep-23	0.246	0.0006

MW-15A	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17	1.37	0.255
24-May-18	1.76	
1-Aug-18	1.2	0.202
10-Aug-18	1.17	0.182
2-Oct-18	1.21	0.233
10-Jan-19	1.22	0.205
25-Apr-19	1.02	0.219
2-Oct-19	1.24	0.196
18-Jun-20	0.86	0.269
8-Oct-20	1.14	0.167
31-Mar-21	1.13	0.168
13-Oct-21	1.01	0.149
30-Mar-22	1.31	0.181
6-Oct-22	1.31	0.149
12-Apr-23	1.24	0.173
25-Sep-23	0.986	0.158

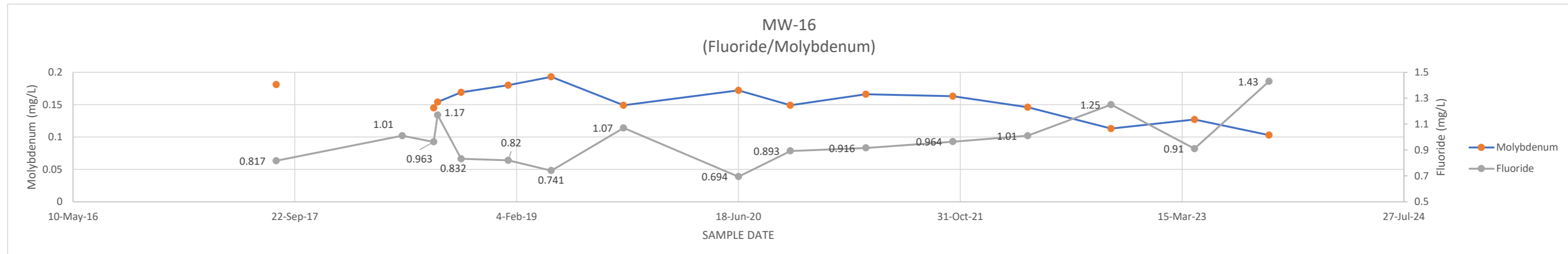


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

MW-15B	FLUORID	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.23	0.0109
13-Oct-20	0.96	0.00876
31-Mar-21	1.14	0.00571
14-Oct-21	1.15	0.00328
30-Mar-22	1.24	0.0037
4-Oct-22	1	0.00153
12-Apr-23	1.04	0.0016
29-Sep-23	0.79	0.0012

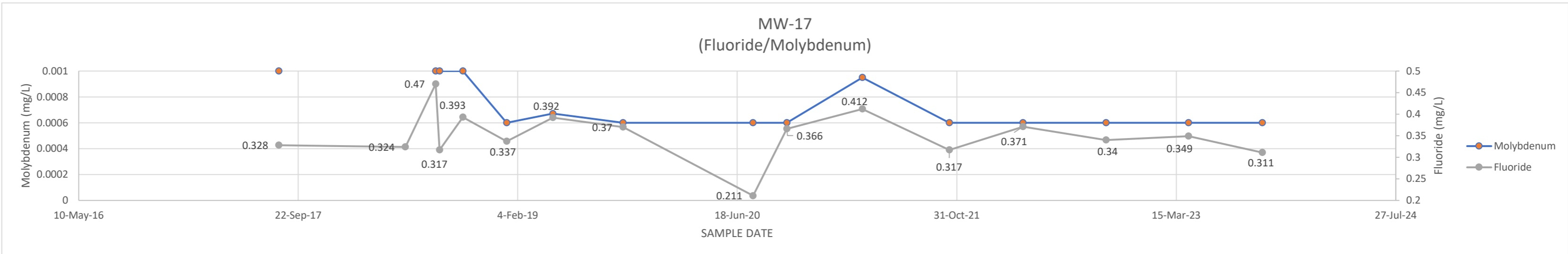


MW-16	FLUORIDE	MOLYBDENUM
DATE		
11-Aug-17	0.817	0.181
22-May-18	1.01	
1-Aug-18	0.963	0.145
10-Aug-18	1.17	0.154
2-Oct-18	0.832	0.169
16-Jan-19	0.82	0.18
23-Apr-19	0.741	0.193
3-Oct-19	1.07	0.149
18-Jun-20	0.694	0.172
13-Oct-20	0.893	0.149
1-Apr-21	0.916	0.166
14-Oct-21	0.964	0.163
1-Apr-22	1.01	0.146
6-Oct-22	1.25	0.113
12-Apr-23	0.91	0.127
27-Sep-23	1.43	0.103



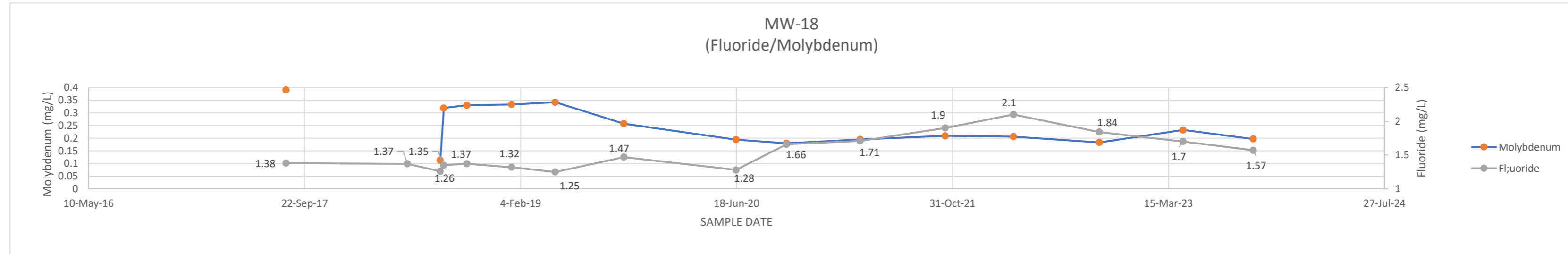
Value denoted in red from June 2022 resample

MW-17	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17	0.328	0.001
24-May-18	0.324	
1-Aug-18	0.47	0.001
10-Aug-18	0.317	0.001
2-Oct-18	0.393	0.001
10-Jan-19	0.337	0.0006
25-Apr-19	0.392	0.000671
2-Oct-19	0.37	0.0006
24-Jul-20	0.211	0.0006
9-Oct-20	0.366	0.0006
30-Mar-21	0.412	0.00095
14-Oct-21	0.317	0.0006
31-Mar-22	0.371	0.0006
6-Oct-22	0.34	0.0006
12-Apr-23	0.349	0.0006
27-Sep-23	0.311	0.0006



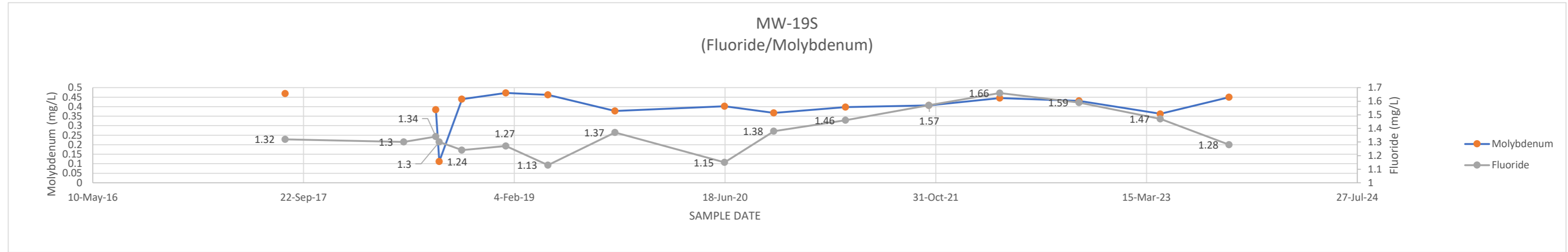
Value denoted in red from June 2022 resample

MW-18	FLUORIDE	MOLYBDENUM
DATE		
10-Aug-17	1.38	0.39
18-May-18	1.37	
2-Aug-18	1.26	0.113
10-Aug-18	1.35	0.319
3-Oct-18	1.37	0.33
14-Jan-19	1.32	0.333
25-Apr-19	1.25	0.342
1-Oct-19	1.47	0.257
17-Jun-20	1.28	0.194
12-Oct-20	1.66	0.18
31-Mar-21	1.71	0.195
14-Oct-21	1.9	0.209
21-Mar-22	2.1	0.206
6-Oct-22	1.84	0.183
18-Apr-23	1.7	0.232
27-Sep-23	1.57	0.197

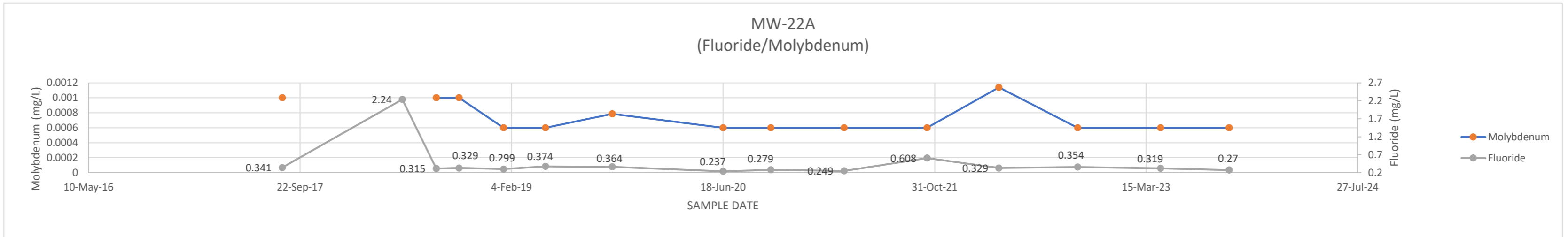


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

MW-19S DATE	FLUORIDE	MOLYBDENUM
10-Aug-17	1.32	0.469
18-May-18	1.3	
2-Aug-18	1.34	0.384
10-Aug-18	1.3	0.112
3-Oct-18	1.24	0.439
15-Jan-19	1.27	0.472
25-Apr-19	1.13	0.462
1-Oct-19	1.37	0.377
17-Jun-20	1.15	0.402
12-Oct-20	1.38	0.367
31-Mar-21	1.46	0.398
15-Oct-21	1.57	0.407
1-Apr-22	1.66	0.445
6-Oct-22	1.59	0.43
17-Apr-23	1.47	0.362
27-Sep-23	1.28	0.45

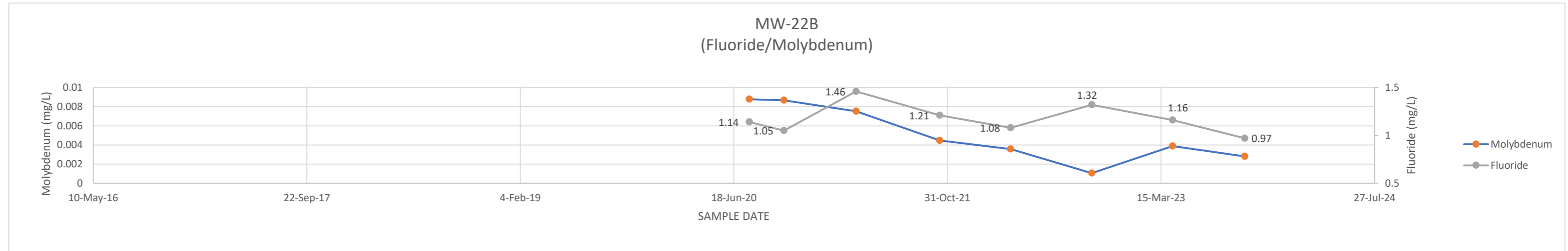


MW-22A DATE	FLUROIDE	MOLYBDENUM
11-Aug-17	0.341	0.001
22-May-18	2.24	
10-Aug-18	0.315	0.001
3-Oct-18	0.329	0.001
16-Jan-19	0.299	0.0006
25-Apr-19	0.374	0.0006
30-Sep-19	0.364	0.000787
18-Jun-20	0.237	0.0006
9-Oct-20	0.279	0.0006
31-Mar-21	0.249	0.0006
13-Oct-21	0.608	0.0006
1-Apr-22	0.329	0.00114
4-Oct-22	0.354	0.0006
18-Apr-23	0.319	0.0006
27-Sep-23	0.27	0.0006

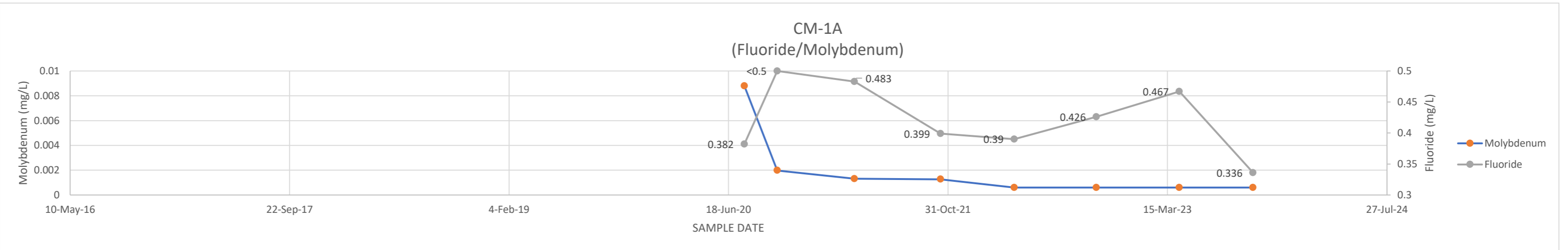


Value denoted in red from June 2022 resample

MW-22B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.14	0.00878
13-Oct-20	1.05	0.00866
31-Mar-21	1.46	0.00753
13-Oct-21	1.21	0.00446
28-Mar-22	1.08	0.00357
4-Oct-22	1.32	0.00105
11-Apr-23	1.16	0.00389
27-Sep-23	0.97	0.0028

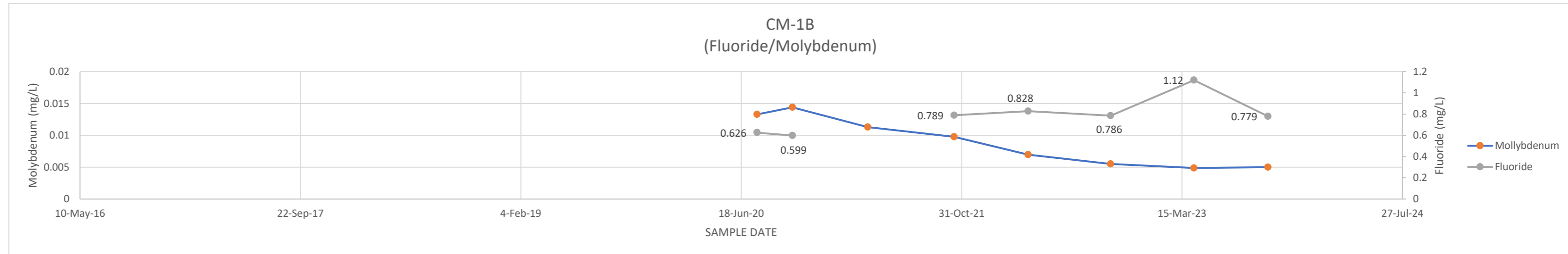


CM-1A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.382	0.0088
7-Oct-20	0.5	0.00198
1-Apr-21	0.483	0.00132
14-Oct-21	0.399	0.00127
31-Mar-22	0.39	0.0006
4-Oct-22	0.426	0.0006
11-Apr-23	0.467	0.0006
26-Sep-23	0.336	0.0006

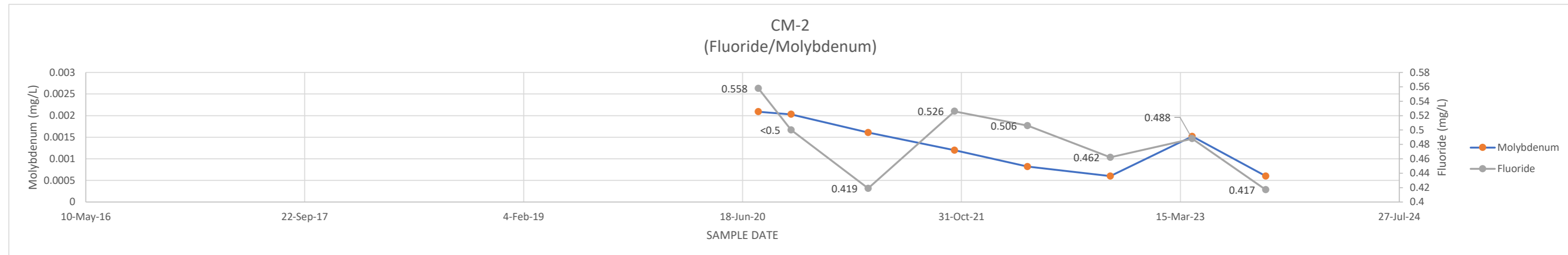


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

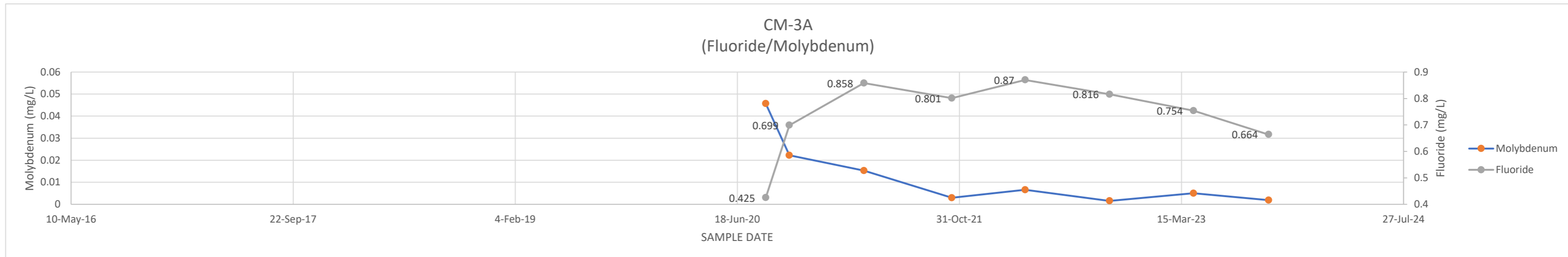
CM-1B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.626	0.0133
12-Oct-20	0.599	0.0144
1-Apr-21		0.0113
14-Oct-21	0.789	0.00976
31-Mar-22	0.828	0.00696
4-Oct-22	0.786	0.00551
11-Apr-23	1.12	0.00488
26-Sep-23	0.779	0.005



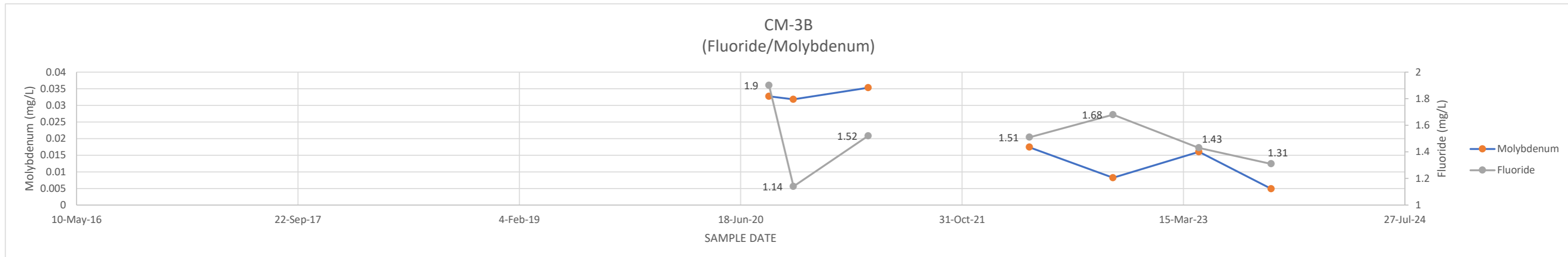
CM-2 DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.558	0.00209
7-Oct-20	0.5	0.00203
1-Apr-21	0.419	0.00161
15-Oct-21	0.526	0.0012
31-Mar-22	0.506	0.00082
6-Oct-22	0.462	0.0006
11-Apr-23	0.488	0.00152
26-Sep-23	0.417	0.0006



CM-3A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.425	0.0457
13-Oct-20	0.699	0.0222
30-Mar-21	0.858	0.0153
14-Oct-21	0.801	0.00297
28-Mar-22	0.87	0.00656
4-Oct-22	0.816	0.00155
11-Apr-23	0.754	0.00503
27-Sep-23	0.664	0.00187

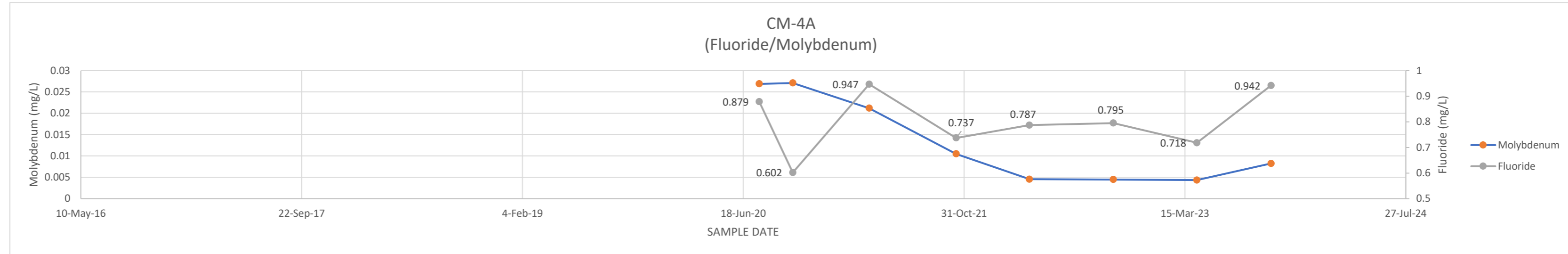


CM-3B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1.9	0.0327
15-Oct-20	1.14	0.0318
2-Apr-21	1.52	0.0353
11-Oct-21		
1-Apr-22	1.51	0.0174
7-Oct-22	1.68	0.00819
19-Apr-23	1.43	0.016
29-Sep-23	1.31	0.0049

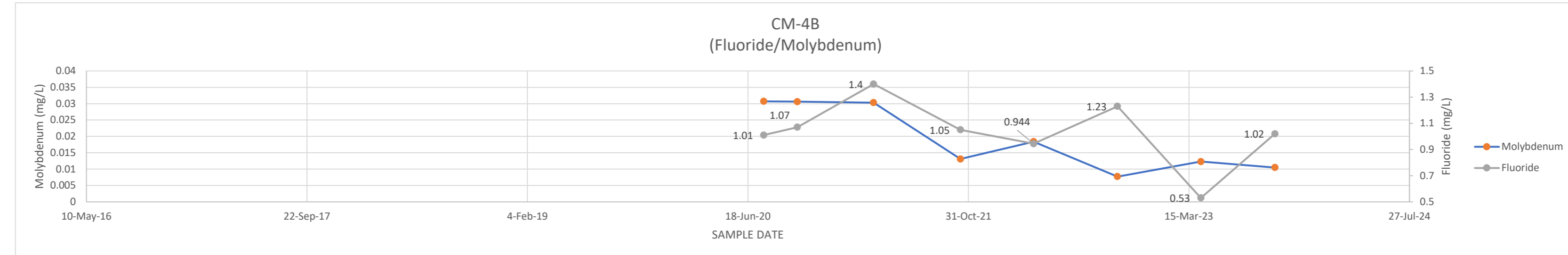


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

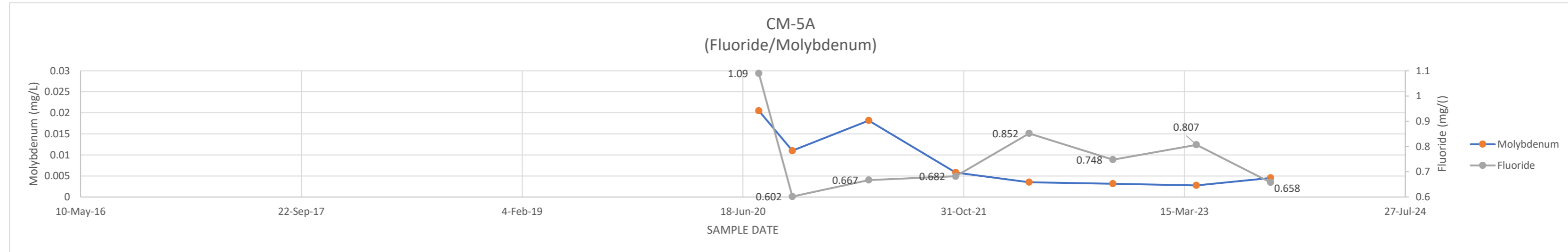
CM-4A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.879	0.0269
8-Oct-20	0.602	0.0271
30-Mar-21	0.947	0.0212
13-Oct-21	0.737	0.0105
28-Mar-22	0.787	0.00455
4-Oct-22	0.795	0.00449
11-Apr-23	0.718	0.00436
26-Sep-23	0.942	0.00825



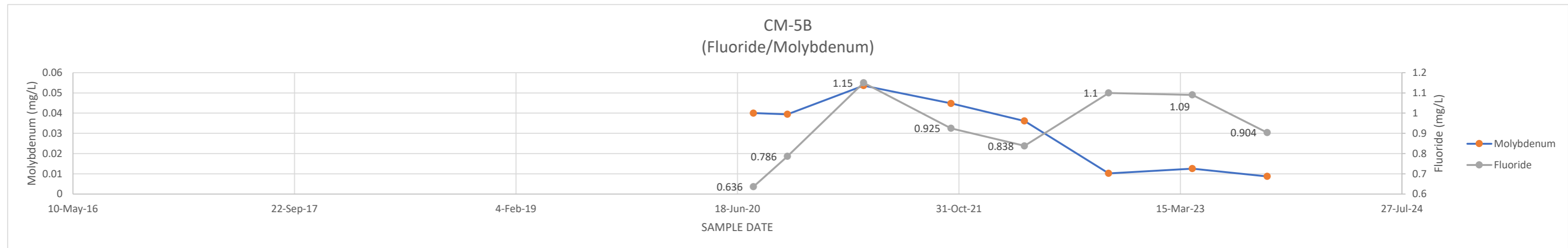
CM-4B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.01	0.0307
8-Oct-20	1.07	0.0306
30-Mar-21	1.4	0.0303
13-Oct-21	1.05	0.0131
28-Mar-22	0.944	0.0184
4-Oct-22	1.23	0.00771
11-Apr-23	0.53	0.0123
26-Sep-23	1.02	0.0105



CM-5A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.09	0.0205
8-Oct-20	0.602	0.011
30-Mar-21	0.667	0.0182
13-Oct-21	0.682	0.0058
28-Mar-22	0.852	0.00351
4-Oct-22	0.748	0.00317
11-Apr-23	0.807	0.00276
26-Sep-23	0.658	0.00455



CM-5B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.636	0.04
9-Oct-20	0.786	0.0394
30-Mar-21	1.15	0.0536
13-Oct-21	0.925	0.0448
28-Mar-22	0.838	0.0361
4-Oct-22	1.1	0.0102
11-Apr-23	1.09	0.0126
27-Sep-23	0.904	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

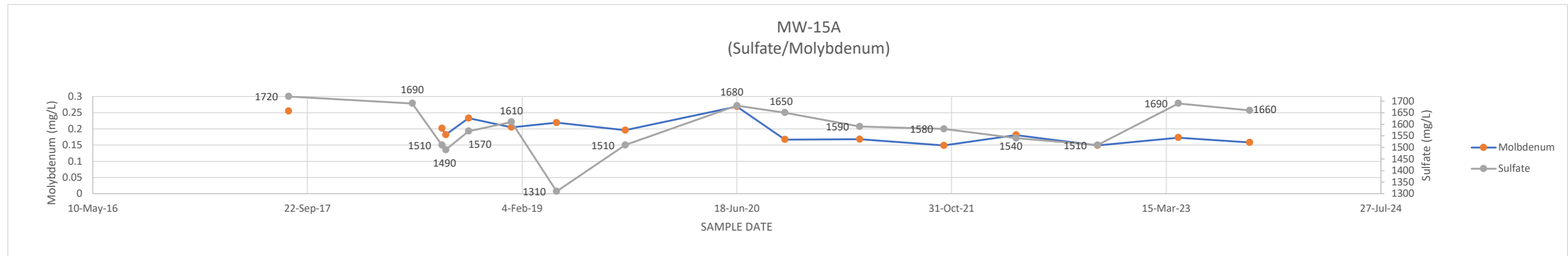
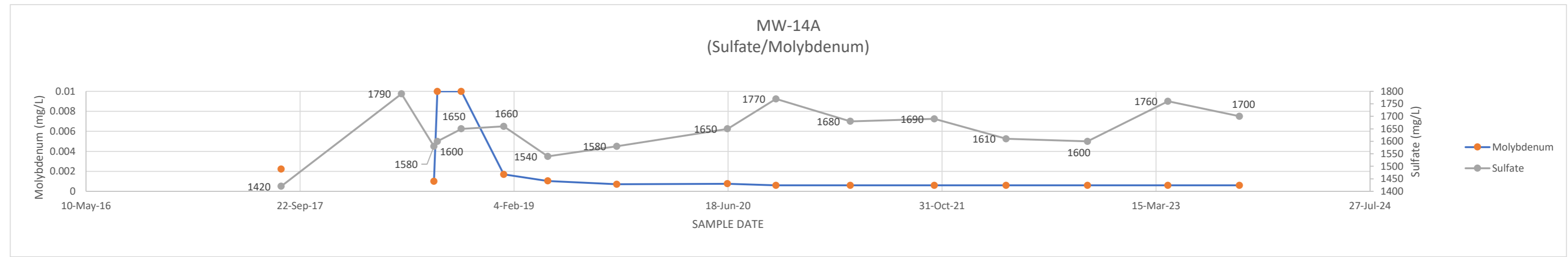
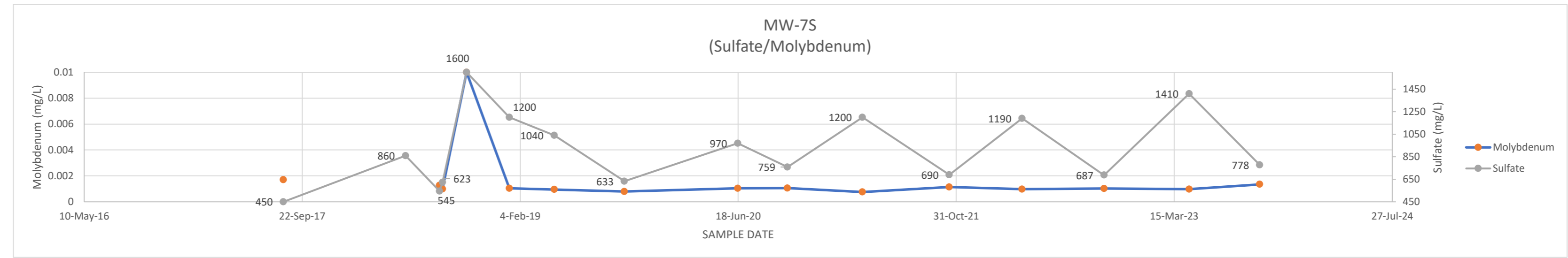
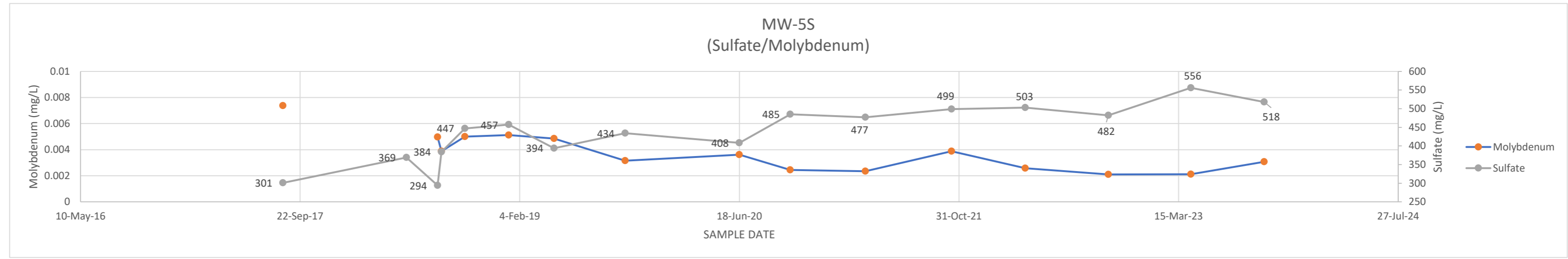
MW-5S	SULFATE	MOLYBDENUM
DATE		
14-Aug-17	301	0.00737
22-May-18	369	
1-Aug-18	294	0.00497
10-Aug-18	384	0.00387
2-Oct-18	447	0.005
10-Jan-19	457	0.00512
23-Apr-19	394	0.00485
2-Oct-19	434	0.00315
18-Jun-20	408	0.00361
12-Oct-20	485	0.00244
1-Apr-21	477	0.00234
14-Oct-21	499	0.00387
31-Mar-22	503	0.00257
6-Oct-22	482	0.0021
12-Apr-23	556	0.00211
26-Sep-23	518	0.00307

Value denoted in red from June 2022 resample

MW-7S	SULFATE	MOLYBDENUM
DATE		
10-Aug-17	450	0.00171
17-May-18	860	
3-Aug-18	545	0.00127
10-Aug-18	623	0.001
4-Oct-18	1600	0.01
10-Jan-19	1200	0.00105
23-Apr-19	1040	0.000952
1-Oct-19	633	0.000798
17-Jun-20	970	0.00105
9-Oct-20	759	0.00106
30-Mar-21	1200	0.000755
15-Oct-21	690	0.00115
31-Mar-22	1190	0.000973
5-Oct-22	687	0.00103
18-Apr-23	1410	0.000973
27-Sep-23	778	0.00135

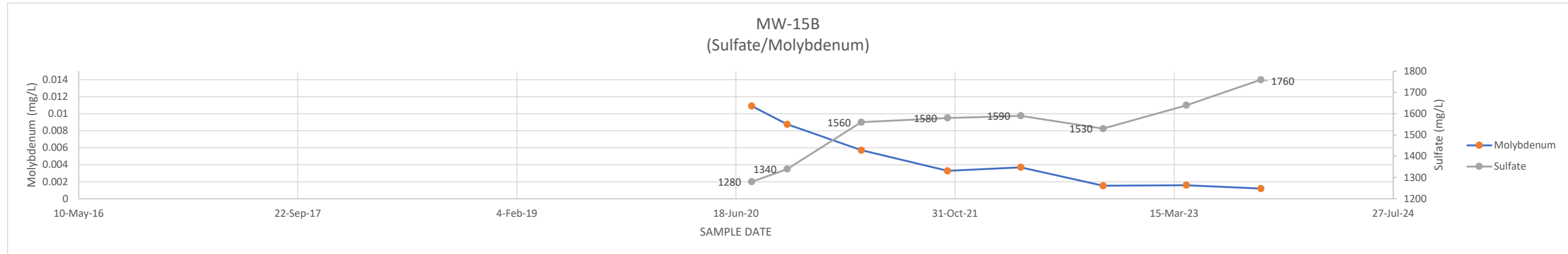
MW-14A	SULFATE	MOLYBDENUM
DATE		
9-Aug-17	1420	0.00223
17-May-18	1790	
1-Aug-18	1580	0.001
9-Aug-18	1600	0.01
4-Oct-18	1650	0.01
11-Jan-19	1660	0.0017
24-Apr-19	1540	0.00104
2-Oct-19	1580	0.000709
17-Jun-20	1650	0.00076
8-Oct-20	1770	0.0006
31-Mar-21	1680	0.0006
13-Oct-21	1690	0.0006
30-Mar-22	1610	0.0006
6-Oct-22	1600	0.0006
12-Apr-23	1760	0.0006
26-Sep-23	1700	0.0006

MW-15A	SULFATE	MOLYBDENUM
DATE		
9-Aug-17	1720	0.255
24-May-18	1690	
1-Aug-18	1510	0.202
10-Aug-18	1490	0.182
2-Oct-18	1570	0.233
10-Jan-19	1610	0.205
25-Apr-19	1310	0.219
2-Oct-19	1510	0.196
18-Jun-20	1680	0.269
8-Oct-20	1650	0.167
31-Mar-21	1590	0.168
13-Oct-21	1580	0.149
30-Mar-22	1540	0.181
6-Oct-22	1510	0.149
12-Apr-23	1690	0.173
25-Sep-23	1660	0.158

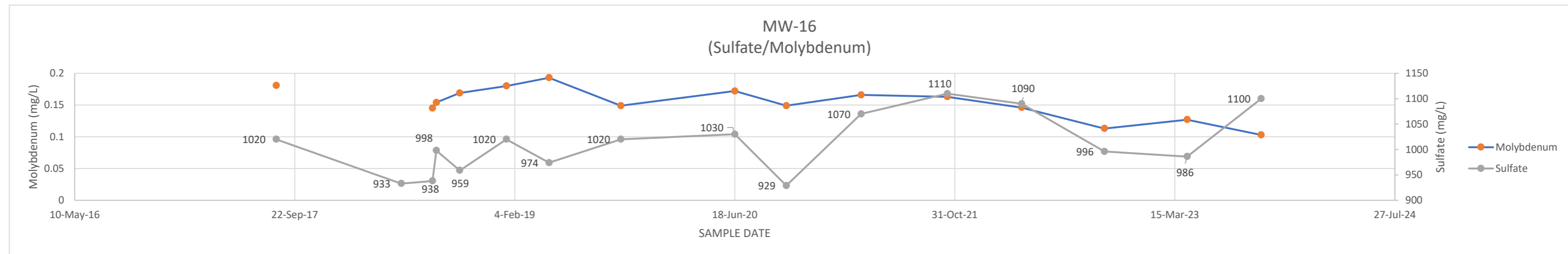


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

MW-15B	SULFATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1280	0.0109
13-Oct-20	1340	0.00876
31-Mar-21	1560	0.00571
14-Oct-21	1580	0.00328
30-Mar-22	1590	0.0037
4-Oct-22	1530	0.00153
12-Apr-23	1640	0.0016
29-Sep-23	1760	0.0012

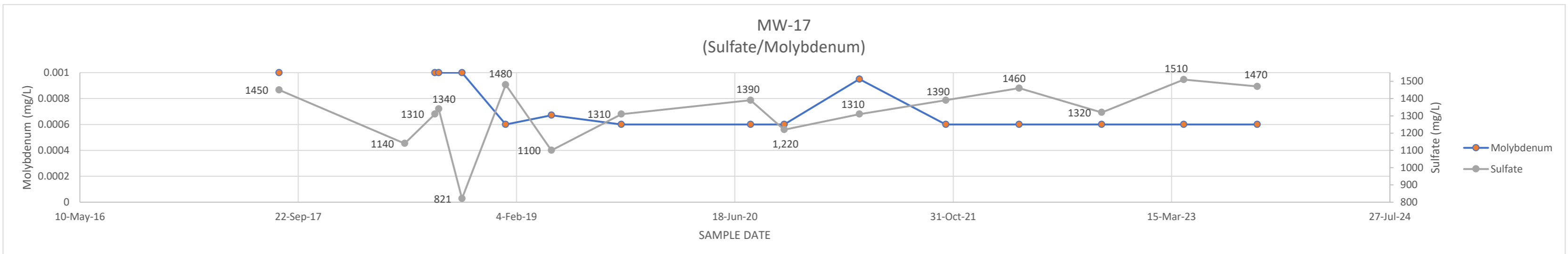


MW-16	SULFATE	MOLYBDENUM
DATE		
11-Aug-17	1020	0.181
22-May-18	933	
1-Aug-18	938	0.145
10-Aug-18	998	0.154
2-Oct-18	959	0.169
16-Jan-19	1020	0.18
23-Apr-19	974	0.193
3-Oct-19	1020	0.149
18-Jun-20	1030	0.172
13-Oct-20	929	0.149
1-Apr-21	1070	0.166
14-Oct-21	1110	0.163
1-Apr-22	1090	0.146
6-Oct-22	996	0.113
12-Apr-23	986	0.127
27-Sep-23	1100	0.103



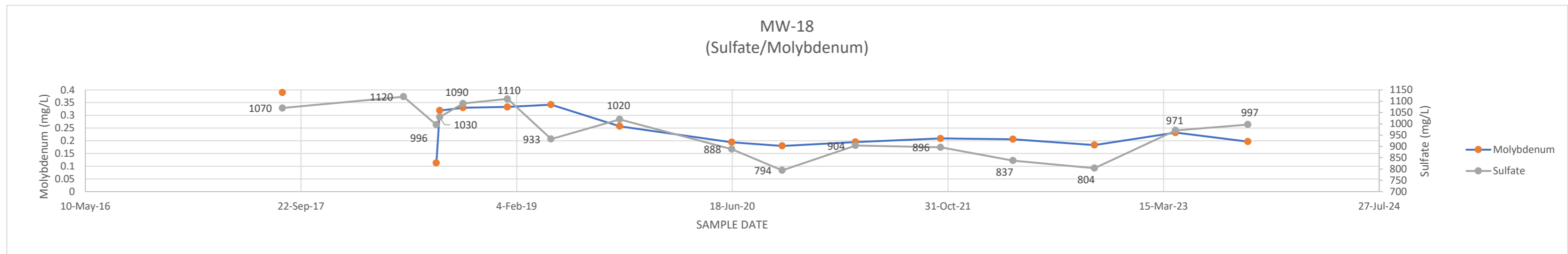
Value denoted in red from June 2022 resample

MW-17	SULFATE	MOLYBDENUM
DATE		
9-Aug-17	1450	0.001
24-May-18	1140	
1-Aug-18	1310	0.001
10-Aug-18	1340	0.001
2-Oct-18	821	0.001
10-Jan-19	1480	0.0006
25-Apr-19	1100	0.000671
2-Oct-19	1310	0.0006
24-Jul-20	1390	0.0006
9-Oct-20	1,220	0.0006
30-Mar-21	1310	0.00095
14-Oct-21	1390	0.0006
31-Mar-22	1460	0.0006
6-Oct-22	1320	0.0006
12-Apr-23	1510	0.0006
27-Sep-23	1470	0.0006



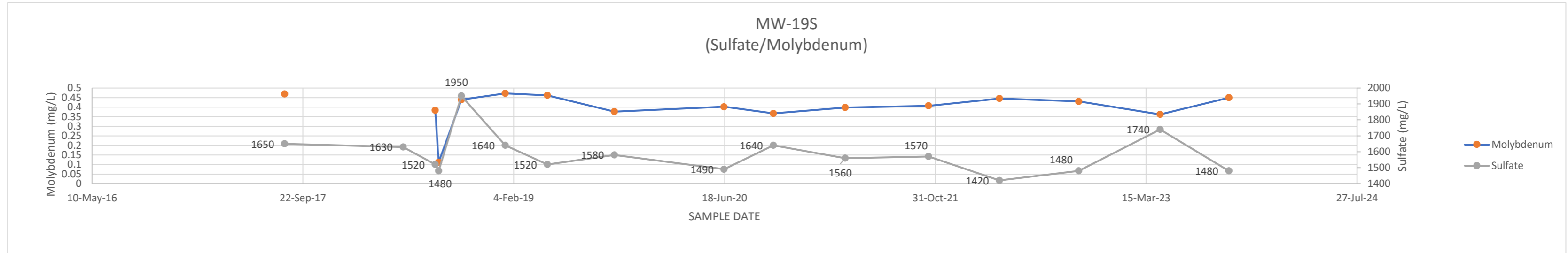
Value denoted in red from June 2022 resample

MW-18	SULFATE	MOLYBDENUM
DATE		
10-Aug-17	1070	0.39
18-May-18	1120	
2-Aug-18	996	0.113
10-Aug-18	1030	0.319
3-Oct-18	1090	0.33
14-Jan-19	1110	0.333
25-Apr-19	933	0.342
1-Oct-19	1020	0.257
17-Jun-20	888	0.194
12-Oct-20	794	0.18
31-Mar-21	904	0.195
14-Oct-21	896	0.209
31-Mar-22	837	0.206
6-Oct-22	804	0.183
12-Apr-23	971	0.232
27-Sep-23	997	0.197

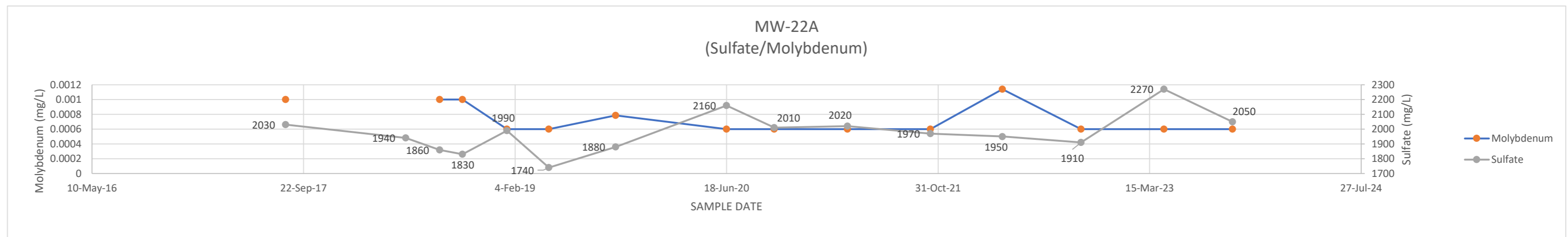


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

MW-19S	SULFATE	MOLYBDENUM
DATE		
10-Aug-17	1650	0.469
18-May-18	1630	
2-Aug-18	1520	0.384
10-Aug-18	1480	0.112
3-Oct-18	1950	0.439
15-Jan-19	1640	0.472
25-Apr-19	1520	0.462
1-Oct-19	1580	0.377
17-Jun-20	1490	0.402
12-Oct-20	1640	0.367
31-Mar-21	1560	0.398
15-Oct-21	1570	0.407
1-Apr-22	1420	0.445
6-Oct-22	1480	0.43
17-Apr-23	1740	0.362
27-Sep-23	1480	0.45

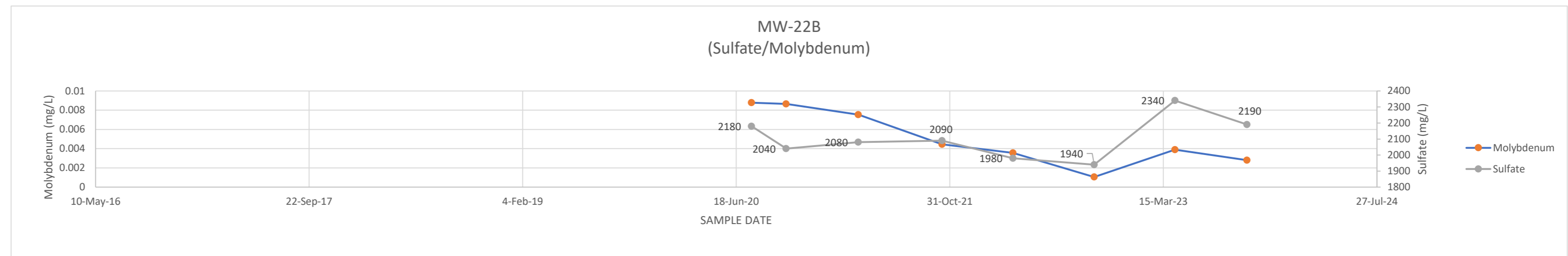


MW-22A	SULFATE	MOLYBDENUM
DATE		
11-Aug-17	2030	0.001
22-May-18	1940	
10-Aug-18	1860	0.001
3-Oct-18	1830	0.001
16-Jan-19	1990	0.0006
25-Apr-19	1740	0.0006
30-Sep-19	1880	0.000787
18-Jun-20	2160	0.0006
9-Oct-20	2010	0.0006
31-Mar-21	2020	0.0006
13-Oct-21	1970	0.0006
1-Apr-22	1950	0.00114
4-Oct-22	1910	0.0006
18-Apr-23	2270	0.0006
27-Sep-23	2050	0.0006

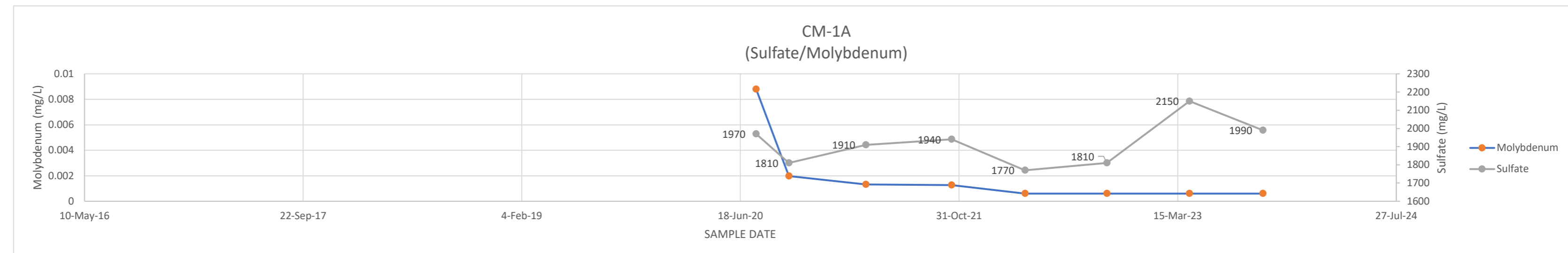


Value denoted in red from June 2022 resample

MW-22B	SULFATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2180	0.00878
13-Oct-20	2040	0.00866
31-Mar-21	2080	0.00753
13-Oct-21	2090	0.00446
28-Mar-22	1980	0.00357
4-Oct-22	1940	0.00105
11-Apr-23	2340	0.00389
27-Sep-23	2190	0.0028

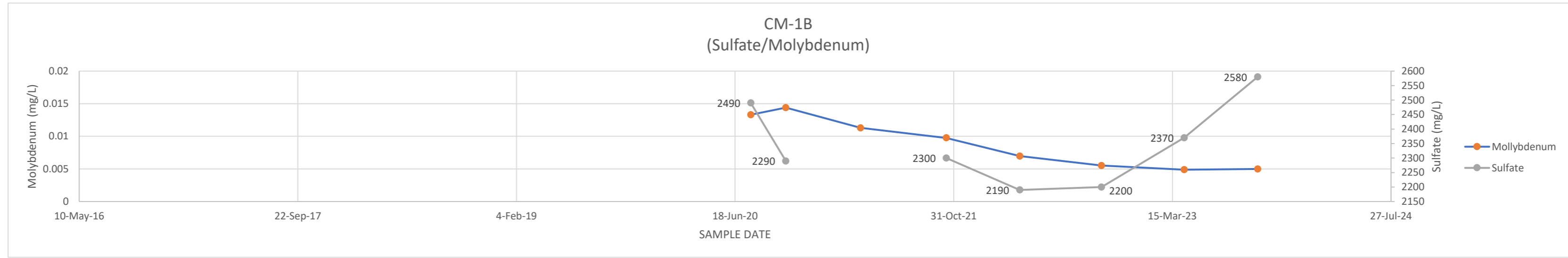


CM-1A	SULFATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1970	0.0088
7-Oct-20	1810	0.00198
1-Apr-21	1910	0.00132
14-Oct-21	1940	0.00127
31-Mar-22	1770	0.0006
4-Oct-22	1810	0.0006
11-Apr-23	2150	0.0006
26-Sep-23	1990	0.0006

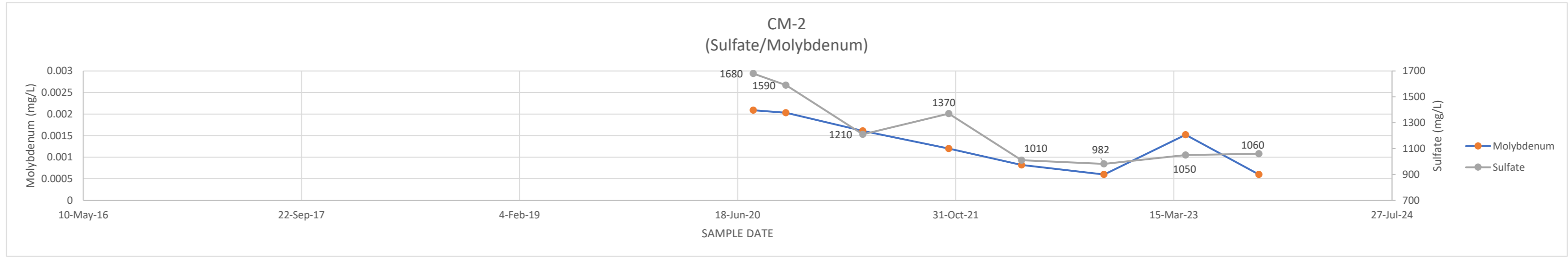


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

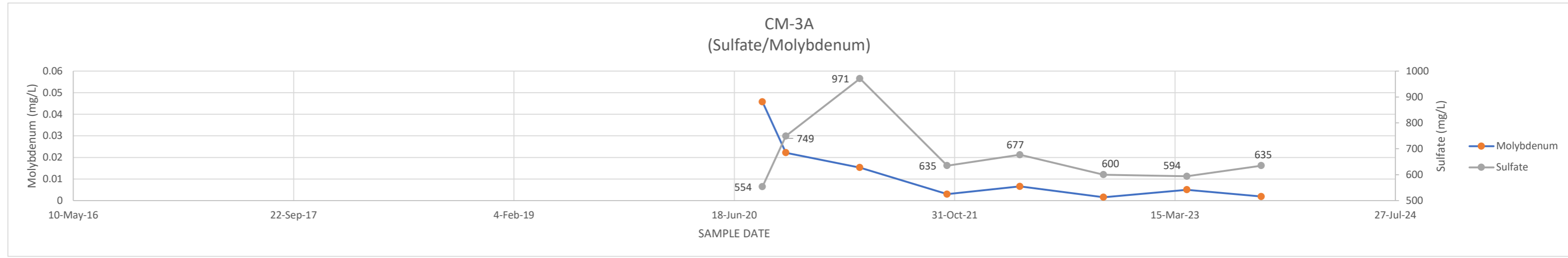
CM-1B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2490	0.0133
12-Oct-20	2290	0.0144
1-Apr-21		0.0113
14-Oct-21	2300	0.00976
31-Mar-22	2190	0.00696
4-Oct-22	2200	0.00551
11-Apr-23	2370	0.00488
26-Sep-23	2580	0.005



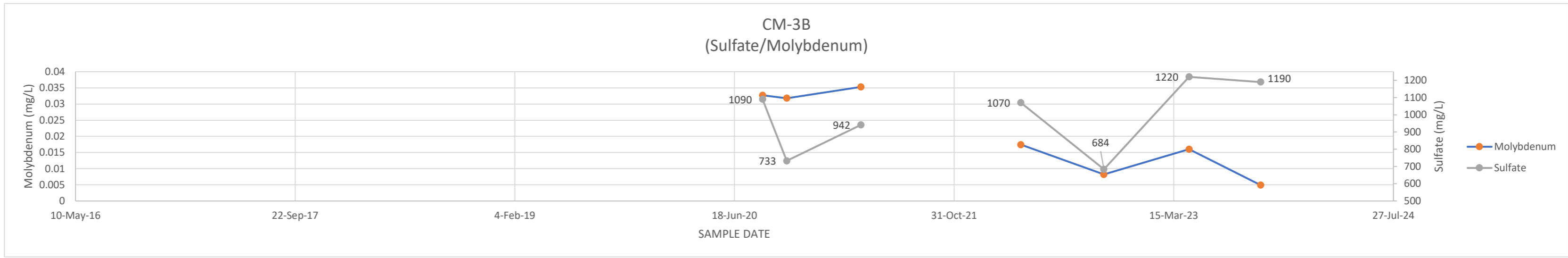
CM-2 DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1680	0.00209
7-Oct-20	1590	0.00203
1-Apr-21	1210	0.00161
15-Oct-21	1370	0.0012
31-Mar-22	1010	0.00082
6-Oct-22	982	0.0006
11-Apr-23	1050	0.00152
26-Sep-23	1060	0.0006



CM-3A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	554	0.0457
13-Oct-20	749	0.0222
30-Mar-21	971	0.0153
14-Oct-21	635	0.00297
28-Mar-22	677	0.00656
4-Oct-22	600	0.00155
11-Apr-23	594	0.00503
27-Sep-23	635	0.00187

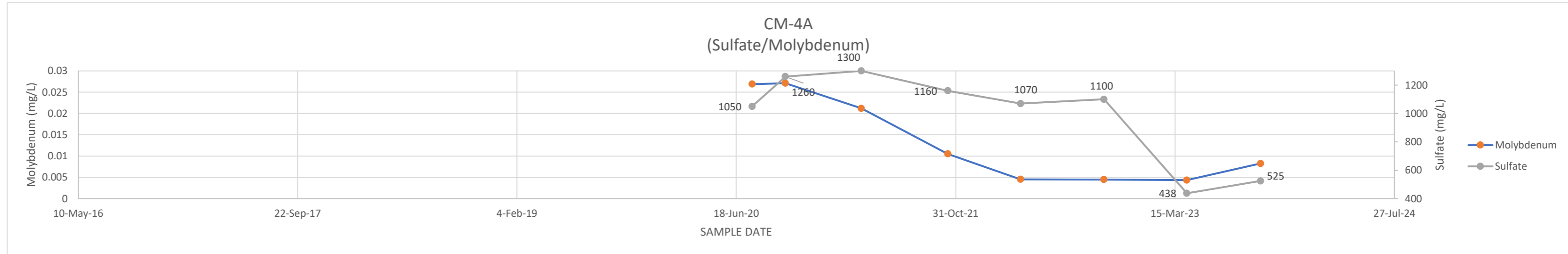


CM-3B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1090	0.0327
15-Oct-20	733	0.0318
2-Apr-21	942	0.0353
11-Oct-21		
1-Apr-22	1070	0.0174
7-Oct-22	684	0.00819
19-Apr-23	1220	0.016
29-Sep-23	1190	0.0049

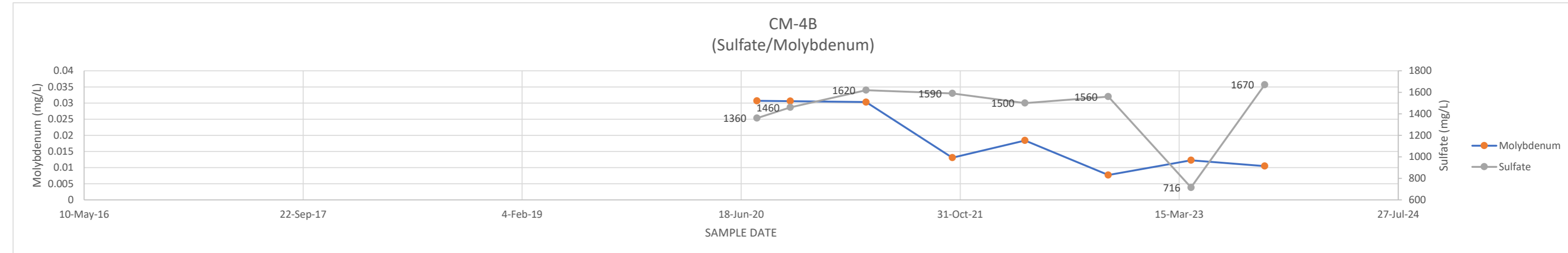


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

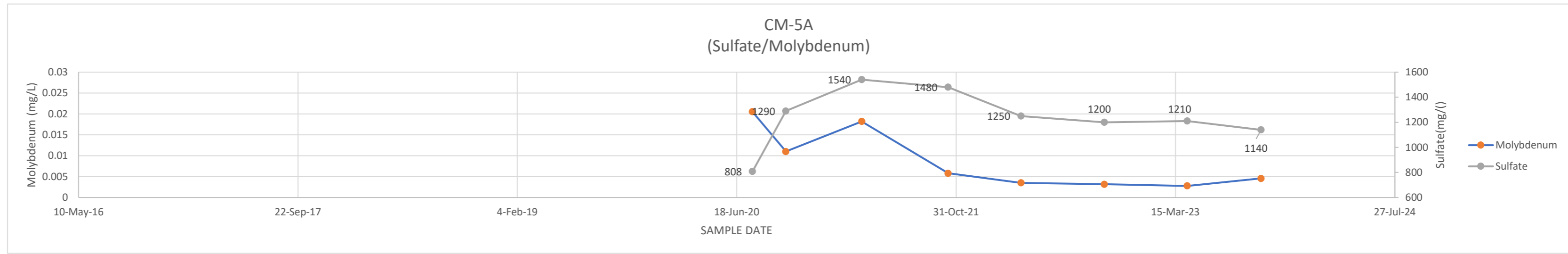
CM-4A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1050	0.0269
8-Oct-20	1260	0.0271
30-Mar-21	1300	0.0212
13-Oct-21	1160	0.0105
28-Mar-22	1070	0.00455
4-Oct-22	1100	0.00449
11-Apr-23	438	0.00436
26-Sep-23	525	0.00825



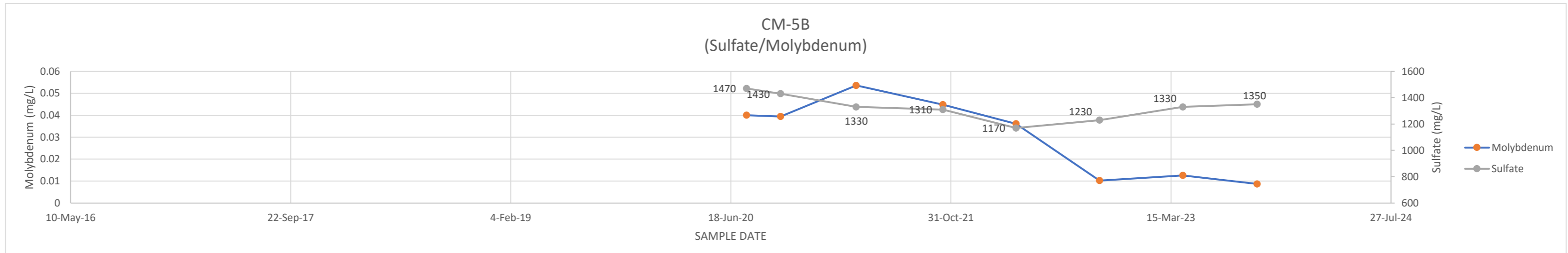
CM-4B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1360	0.0307
8-Oct-20	1460	0.0306
30-Mar-21	1620	0.0303
13-Oct-21	1590	0.0131
28-Mar-22	1500	0.0184
4-Oct-22	1560	0.00771
11-Apr-23	716	0.0123
26-Sep-23	1670	0.0105



CM-5A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	808	0.0205
8-Oct-20	1290	0.011
30-Mar-21	1540	0.0182
13-Oct-21	1480	0.0058
28-Mar-22	1250	0.00351
4-Oct-22	1200	0.00317
11-Apr-23	1210	0.00276
26-Sep-23	1140	0.00455



CM-5B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1470	0.04
9-Oct-20	1430	0.0394
30-Mar-21	1330	0.0536
13-Oct-21	1310	0.0448
28-Mar-22	1170	0.0361
4-Oct-22	1230	0.0102
11-Apr-23	1330	0.0126
27-Sep-23	1350	0.00871



Yellow Indicates Reported Below shown value (MDL)

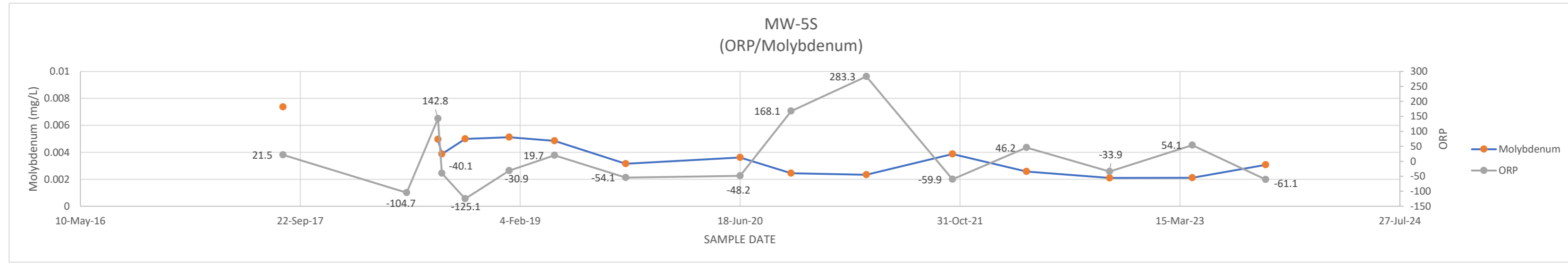
ATTACHMENT G

CHANGES IN CONCENTRATION OF INDICATOR PARAMETERS FOR MNA COMPARED TO CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

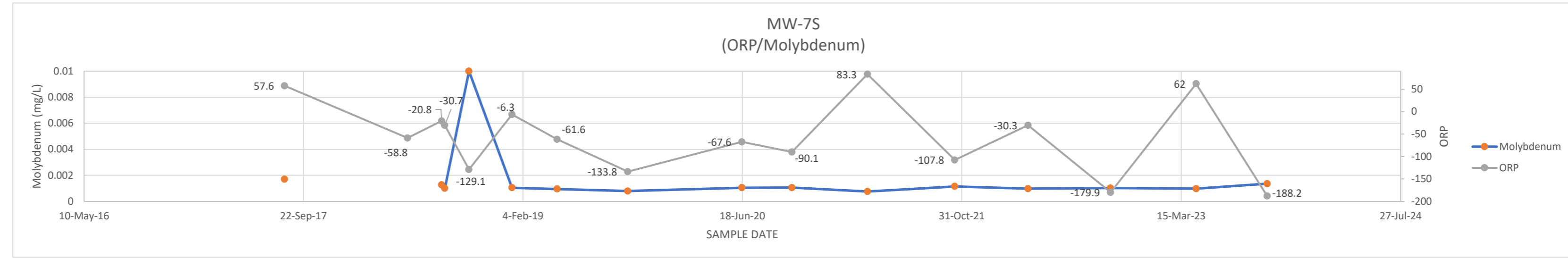
- G-1: CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS
- G-2: CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS
- G-3A: CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS
- G-3B: CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS
- G-4: CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS
- G-5: CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS
- G-6: CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

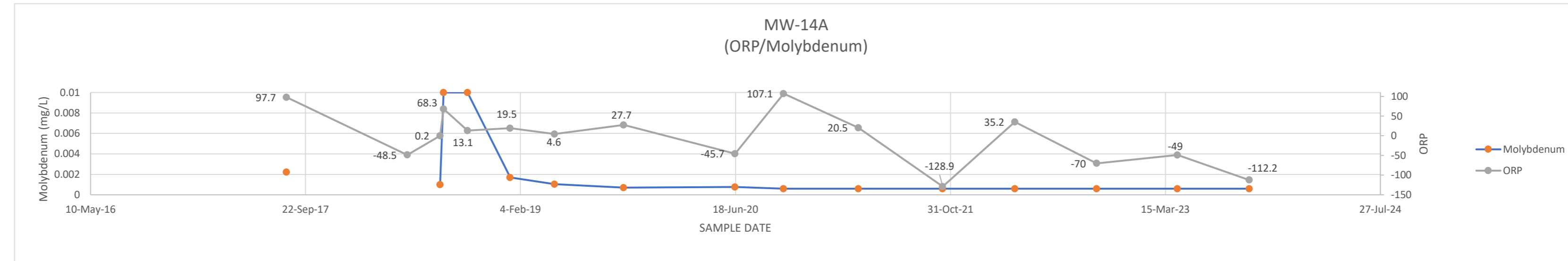
MW-5S	ORP	MOLYBDENUM
DATE		
14-Aug-17	21.5	0.00737
22-May-18	-104.7	
1-Aug-18	142.8	0.00497
10-Aug-18	-40.1	0.00387
2-Oct-18	-125.1	0.005
10-Jan-19	-30.9	0.00512
23-Apr-19	19.7	0.00485
2-Oct-19	-54.1	0.00315
18-Jun-20	-48.2	0.00361
12-Oct-20	168.1	0.00244
1-Apr-21	283.3	0.00234
14-Oct-21	-59.9	0.00387
31-Mar-22	46.2	0.00257
6-Oct-22	-33.9	0.0021
12-Apr-23	54.1	0.00211
26-Sep-23	-61.1	0.00307



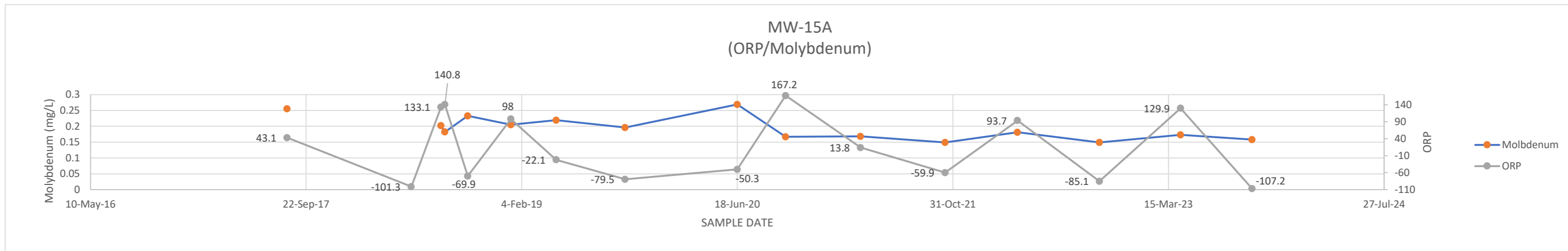
MW-7S	ORP	MOLYBDENUM
DATE		
10-Aug-17	57.6	0.00171
17-May-18	-58.8	
3-Aug-18	-20.8	0.00127
10-Aug-18	-30.7	0.001
4-Oct-18	-129.1	0.01
10-Jan-19	-6.3	0.00105
23-Apr-19	-61.6	0.000952
1-Oct-19	-133.8	0.000798
17-Jun-20	-67.6	0.00105
9-Oct-20	-90.1	0.00106
30-Mar-21	83.3	0.000755
15-Oct-21	-107.8	0.00115
31-Mar-22	-30.3	0.000973
5-Oct-22	-179.9	0.00103
18-Apr-23	62	0.000973
27-Sep-23	-188.2	0.00135



MW-14A	ORP	MOLYBDENUM
DATE		
9-Aug-17	97.7	0.00223
17-May-18	-48.5	
1-Aug-18	0.2	0.001
9-Aug-18	68.3	0.01
4-Oct-18	13.1	0.01
11-Jan-19	19.5	0.0017
24-Apr-19	4.6	0.00104
2-Oct-19	27.7	0.000709
17-Jun-20	-45.7	0.00076
8-Oct-20	107.1	0.0006
31-Mar-21	20.5	0.0006
13-Oct-21	-128.9	0.0006
30-Mar-22	35.2	0.0006
6-Oct-22	-70	0.0006
12-Apr-23	-49	0.0006
26-Sep-23	-112.2	0.0006

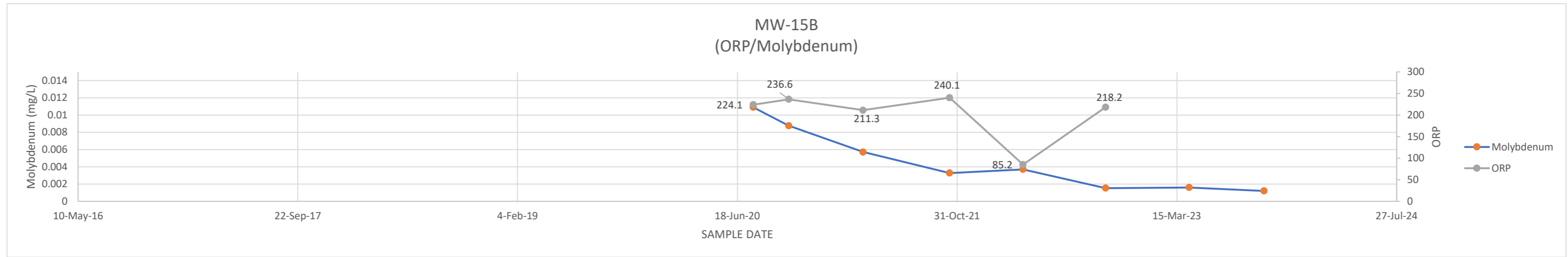


MW-15A	ORP	MOLYBDENUM
DATE		
9-Aug-17	43.1	0.255
24-May-18	-101.3	
1-Aug-18	133.1	0.202
10-Aug-18	140.8	0.182
2-Oct-18	-69.9	0.233
10-Jan-19	98	0.205
25-Apr-19	-22.1	0.219
2-Oct-19	-79.5	0.196
18-Jun-20	-50.3	0.269
8-Oct-20	167.2	0.167
31-Mar-21	13.8	0.168
13-Oct-21	-59.9	0.149
30-Mar-22	93.7	0.181
6-Oct-22	-85.1	0.149
12-Apr-23	129.9	0.173
25-Sep-23	-107.2	0.158

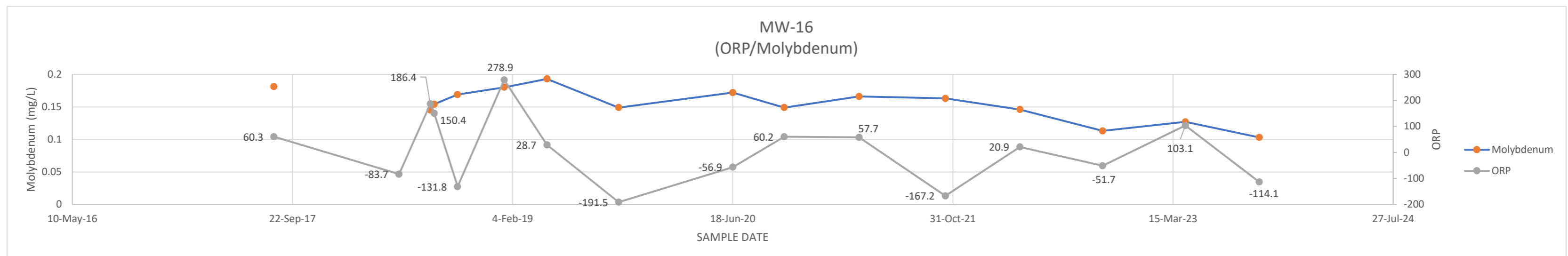


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

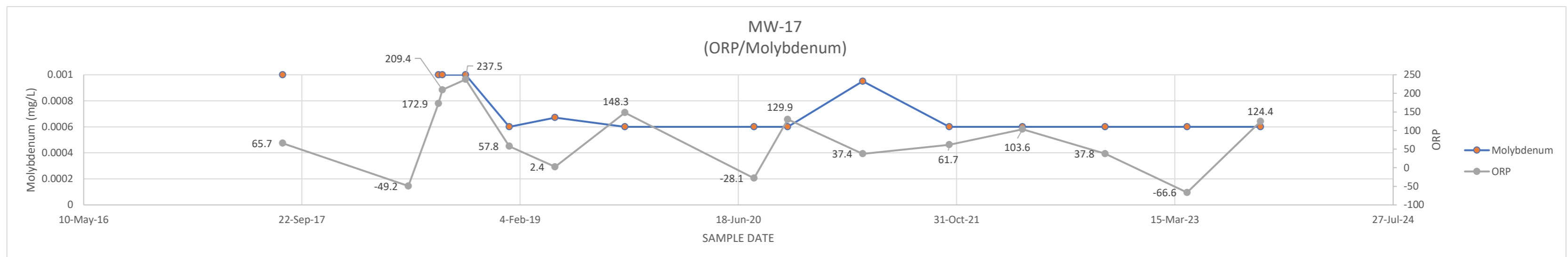
MW-15B	ORP	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	224.1	0.0109
13-Oct-20	236.6	0.00876
31-Mar-21	211.3	0.00571
14-Oct-21	240.1	0.00328
30-Mar-22	85.2	0.0037
4-Oct-22	218.2	0.00153
12-Apr-23		0.0016
29-Sep-23		0.0012



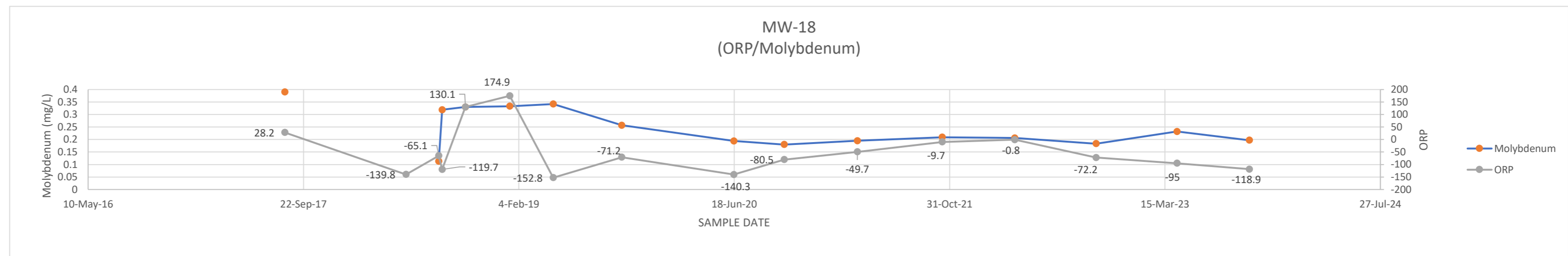
MW-16	ORP	MOLYBDENUM
DATE		
11-Aug-17	60.3	0.181
22-May-18	-83.7	
1-Aug-18	186.4	0.145
10-Aug-18	150.4	0.154
2-Oct-18	-131.8	0.169
16-Jan-19	278.9	0.18
23-Apr-19	28.7	0.193
3-Oct-19	-191.5	0.149
18-Jun-20	-56.9	0.172
13-Oct-20	60.2	0.149
1-Apr-21	57.7	0.166
14-Oct-21	-167.2	0.163
1-Apr-22	20.9	0.146
6-Oct-22	-51.7	0.113
12-Apr-23	103.1	0.127
27-Sep-23	-114.1	0.103



MW-17	ORP	MOLYBDENUM
DATE		
9-Aug-17	65.7	0.001
24-May-18	-49.2	
1-Aug-18	172.9	0.001
10-Aug-18	209.4	0.001
2-Oct-18	237.5	0.001
10-Jan-19	57.8	0.0006
25-Apr-19	2.4	0.000671
2-Oct-19	148.3	0.0006
24-Jul-20	-28.1	0.0006
9-Oct-20	129.9	0.0006
30-Mar-21	37.4	0.00095
14-Oct-21	61.7	0.0006
31-Mar-22	103.6	0.0006
6-Oct-22	37.8	0.0006
12-Apr-23	-66.6	0.0006
27-Sep-23	124.4	0.0006

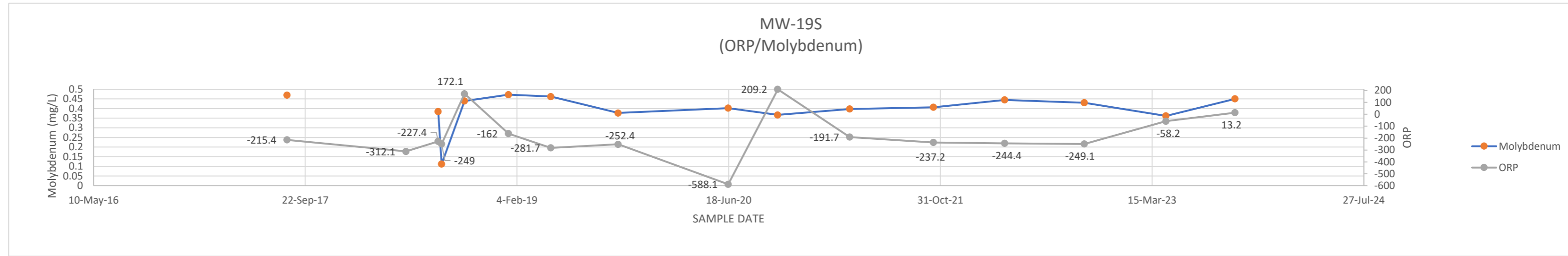


MW-18	ORP	MOLYBDENUM
DATE		
10-Aug-17	28.2	0.39
18-May-18	-139.8	
2-Aug-18	-65.1	0.113
10-Aug-18	-119.7	0.319
3-Oct-18	130.1	0.33
14-Jan-19	174.9	0.333
25-Apr-19	-152.8	0.342
1-Oct-19	-71.2	0.257
17-Jun-20	-140.3	0.194
12-Oct-20	-80.5	0.18
31-Mar-21	-49.7	0.195
14-Oct-21	-9.7	0.209
31-Mar-22	-0.8	0.206
6-Oct-22	-72.2	0.183
12-Apr-23	-95	0.232
27-Sep-23	-118.9	0.197

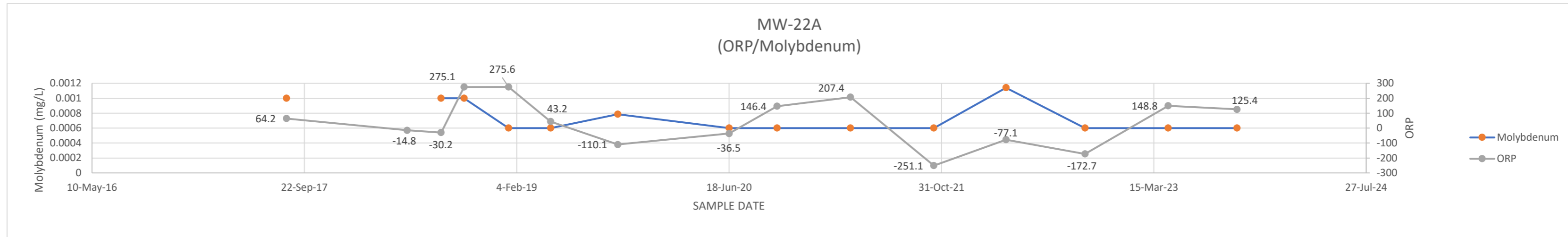


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

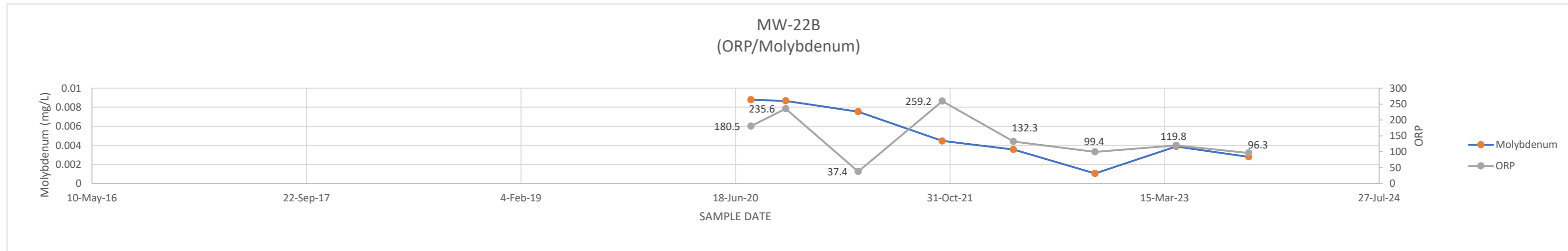
MW-19S	ORP	MOLYBDENUM
DATE		
10-Aug-17	-215.4	0.469
18-May-18	-312.1	
2-Aug-18	-227.4	0.384
10-Aug-18	-249	0.112
3-Oct-18	172.1	0.439
15-Jan-19	-162	0.472
25-Apr-19	-281.7	0.462
1-Oct-19	-252.4	0.377
17-Jun-20	-588.1	0.402
12-Oct-20	209.2	0.367
31-Mar-21	-191.7	0.398
15-Oct-21	-237.2	0.407
1-Apr-22	-244.4	0.445
6-Oct-22	-249.1	0.43
17-Apr-23	-58.2	0.362
27-Sep-23	13.2	0.45



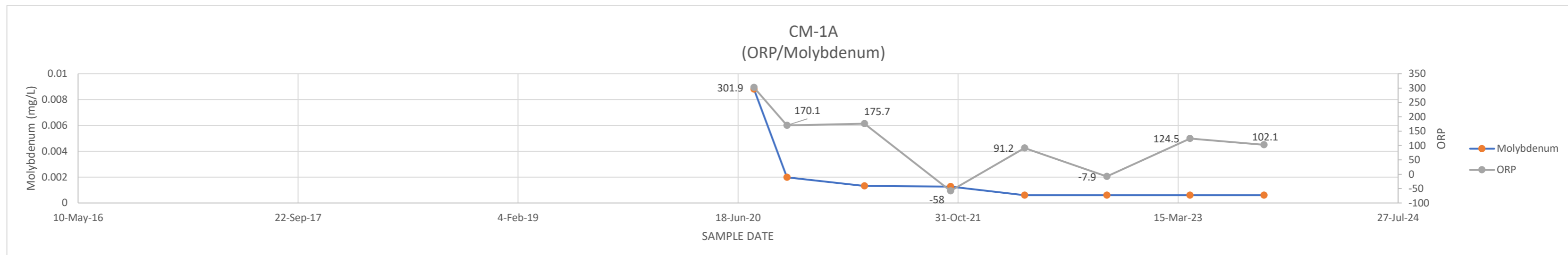
MW-22A	ORP	MOLYBDENUM
DATE		
11-Aug-17	64.2	0.001
22-May-18	-14.8	
10-Aug-18	-30.2	0.001
3-Oct-18	275.1	0.001
16-Jan-19	275.6	0.0006
25-Apr-19	43.2	0.0006
30-Sep-19	-110.1	0.000787
18-Jun-20	-36.5	0.0006
9-Oct-20	146.4	0.0006
31-Mar-21	207.4	0.0006
13-Oct-21	-251.1	0.0006
1-Apr-22	-77.1	0.00114
4-Oct-22	-172.7	0.0006
18-Apr-23	148.8	0.0006
27-Sep-23	125.4	0.0006



MW-22B	ORP	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	180.5	0.00878
13-Oct-20	235.6	0.00866
31-Mar-21	37.4	0.00753
13-Oct-21	259.2	0.00446
28-Mar-22	132.3	0.00357
4-Oct-22	99.4	0.00105
11-Apr-23	119.8	0.00389
27-Sep-23	96.3	0.0028

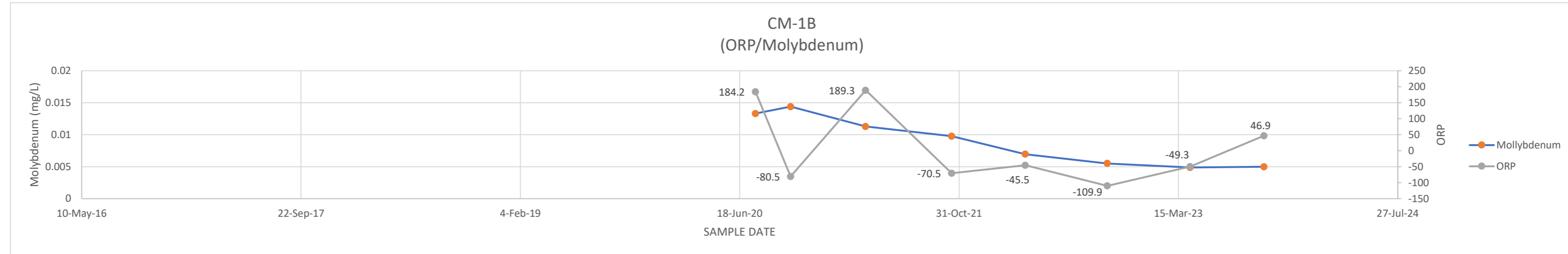


CM-1A	ORP	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	301.9	0.0088
7-Oct-20	170.1	0.00198
1-Apr-21	175.7	0.00132
14-Oct-21	-58	0.00127
31-Mar-22	91.2	0.0006
4-Oct-22	-7.9	0.0006
11-Apr-23	124.5	0.0006
26-Sep-23	102.1	0.0006

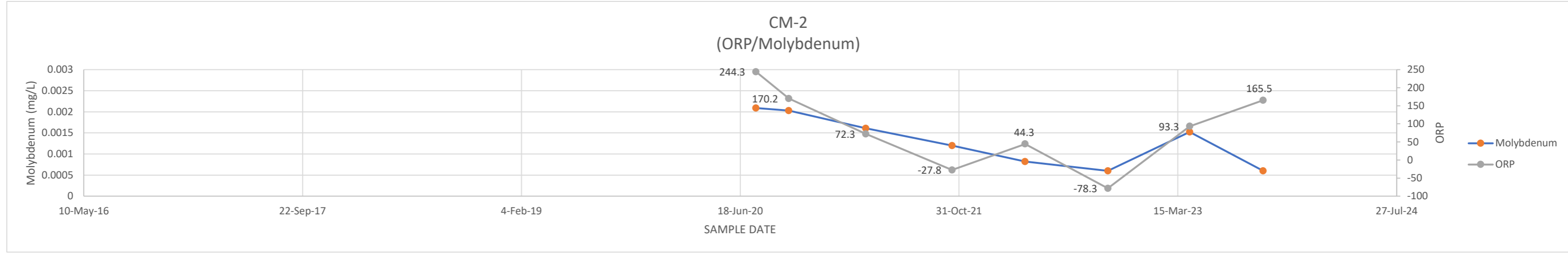


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

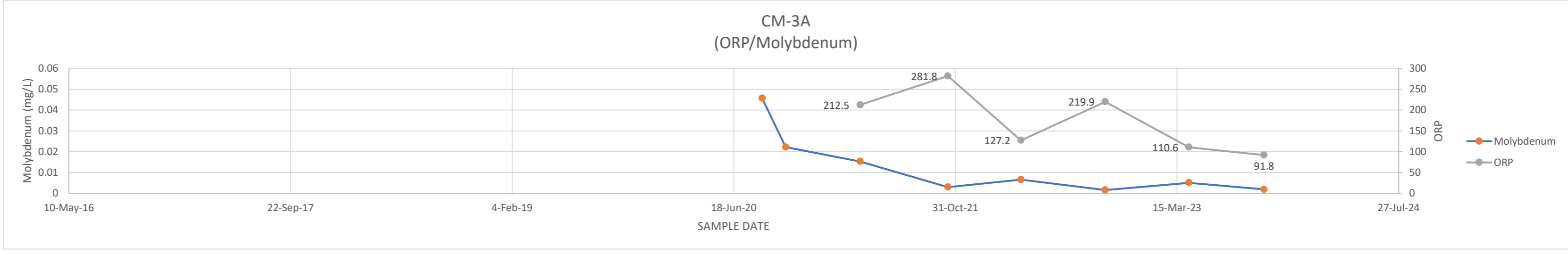
CM-1B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	184.2	0.0133
12-Oct-20	-80.5	0.0144
1-Apr-21	189.3	0.0113
14-Oct-21	-70.5	0.00976
31-Mar-22	-45.5	0.00696
4-Oct-22	-109.9	0.00551
11-Apr-23	-49.3	0.00488
26-Sep-23	46.9	0.005



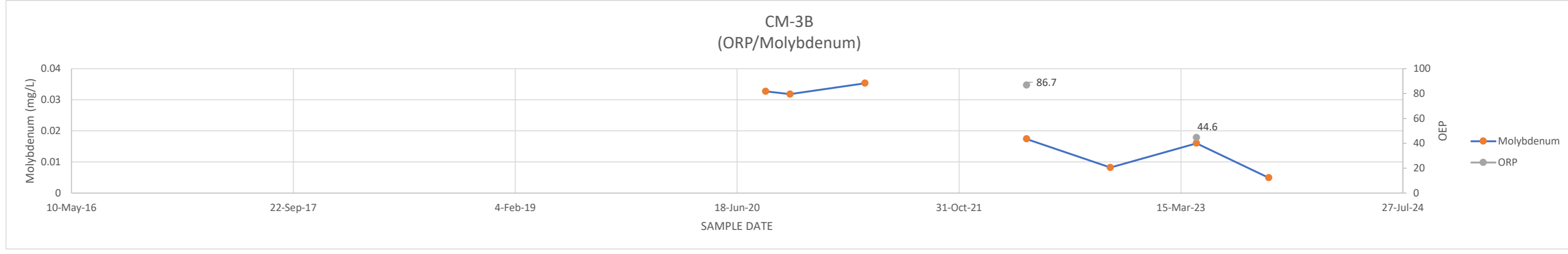
CM-2 DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	244.3	0.00209
7-Oct-20	170.2	0.00203
1-Apr-21	72.3	0.00161
15-Oct-21	-27.8	0.0012
31-Mar-22	44.3	0.00082
6-Oct-22	-78.3	0.0006
11-Apr-23	93.3	0.00152
26-Sep-23	165.5	0.0006



CM-3A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	212.5	0.0153
14-Oct-21	281.8	0.00297
28-Mar-22	127.2	0.00656
4-Oct-22	219.9	0.00155
11-Apr-23	110.6	0.00503
27-Sep-23	91.8	0.00187

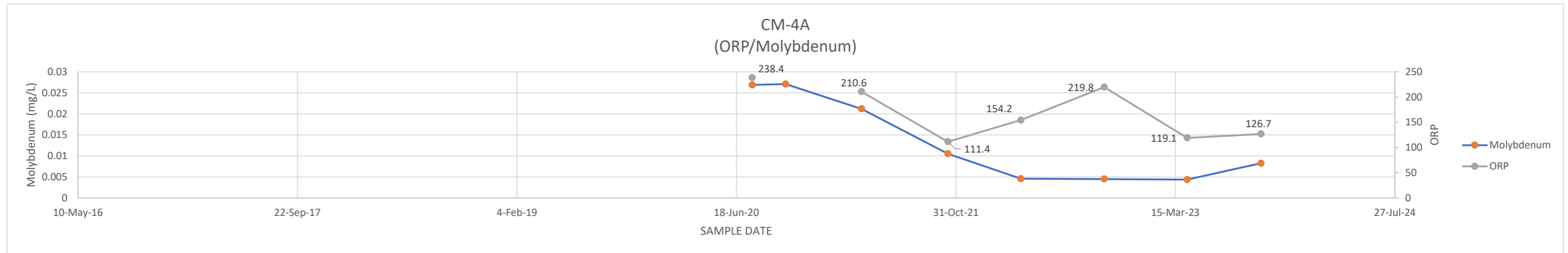


CM-3B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	86.7	0.0174
7-Oct-22		0.00819
19-Apr-23	44.6	0.016
29-Sep-23		0.0049

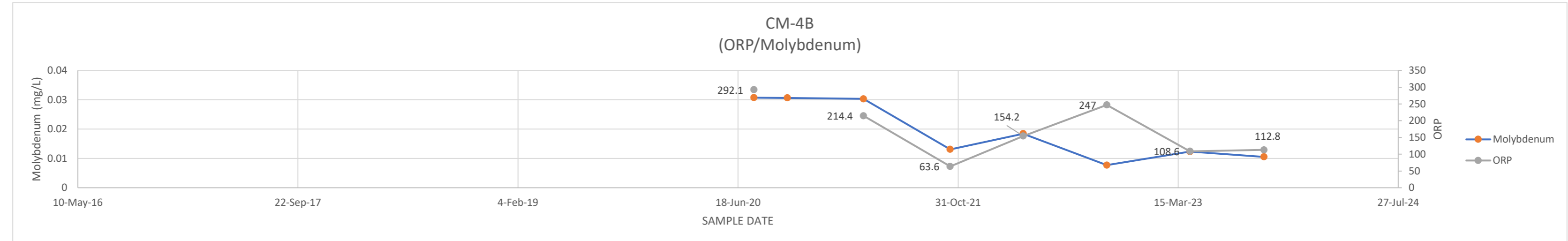


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

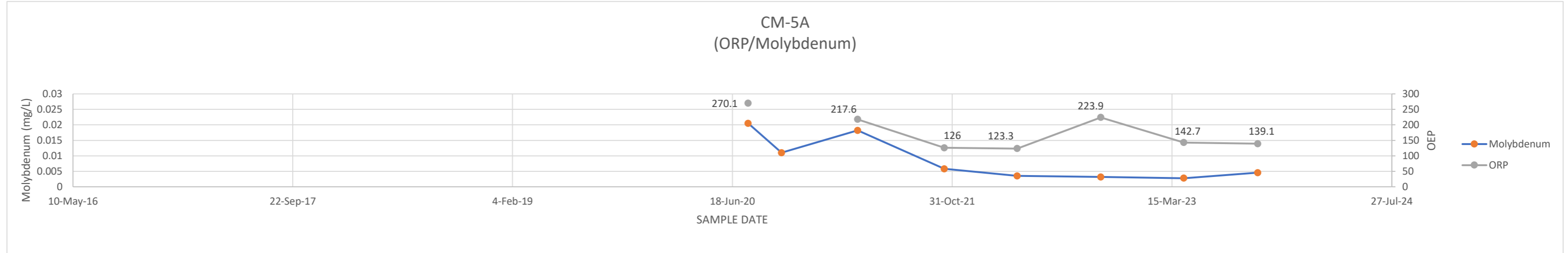
CM-4A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	238.4	0.0269
8-Oct-20		0.0271
30-Mar-21	210.6	0.0212
13-Oct-21	111.4	0.0105
28-Mar-22	154.2	0.00455
4-Oct-22	219.8	0.00449
11-Apr-23	119.1	0.00436
26-Sep-23	126.7	0.00825



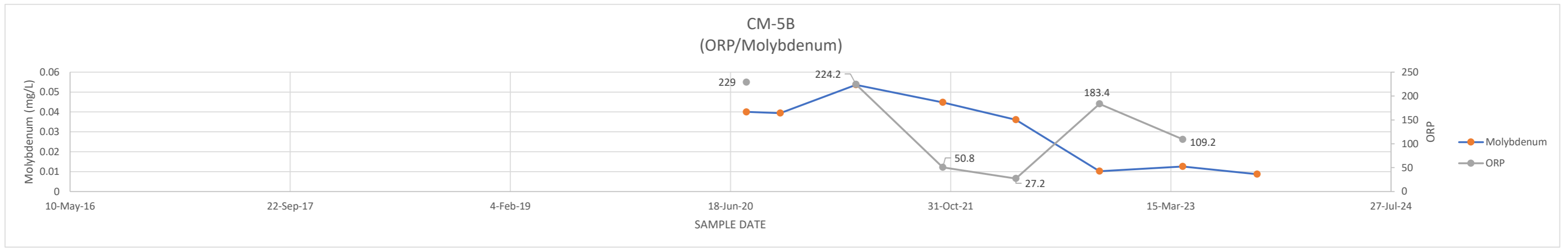
CM-4B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	292.1	0.0307
8-Oct-20		0.0306
30-Mar-21	214.4	0.0303
13-Oct-21	63.6	0.0131
28-Mar-22	154.2	0.0184
4-Oct-22	247	0.00771
11-Apr-23	108.6	0.0123
26-Sep-23	112.8	0.0105



CM-5A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	270.1	0.0205
8-Oct-20		0.011
30-Mar-21	217.6	0.0182
13-Oct-21	126	0.0058
28-Mar-22	123.3	0.00351
4-Oct-22	223.9	0.00317
11-Apr-23	142.7	0.00276
26-Sep-23	139.1	0.00455



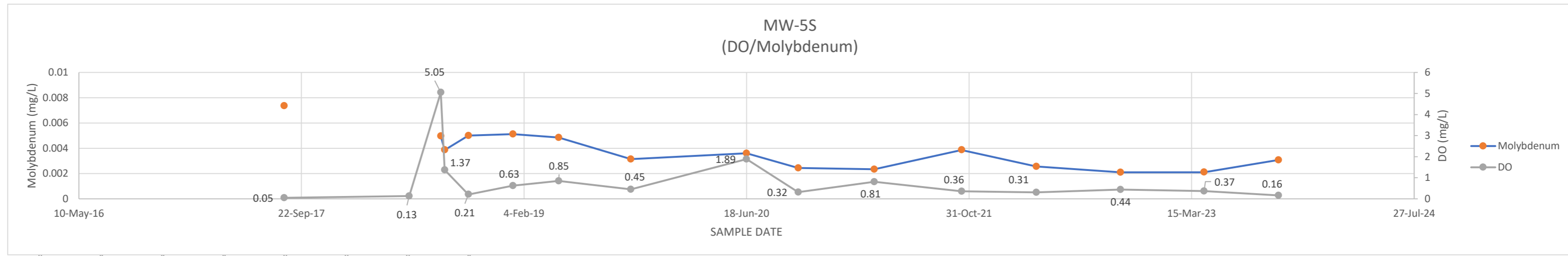
CM-5B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	229	0.04
9-Oct-20		0.0394
30-Mar-21	224.2	0.0536
13-Oct-21	50.8	0.0448
28-Mar-22	27.2	0.0361
4-Oct-22	183.4	0.0102
11-Apr-23	109.2	0.0126
27-Sep-23		0.00871



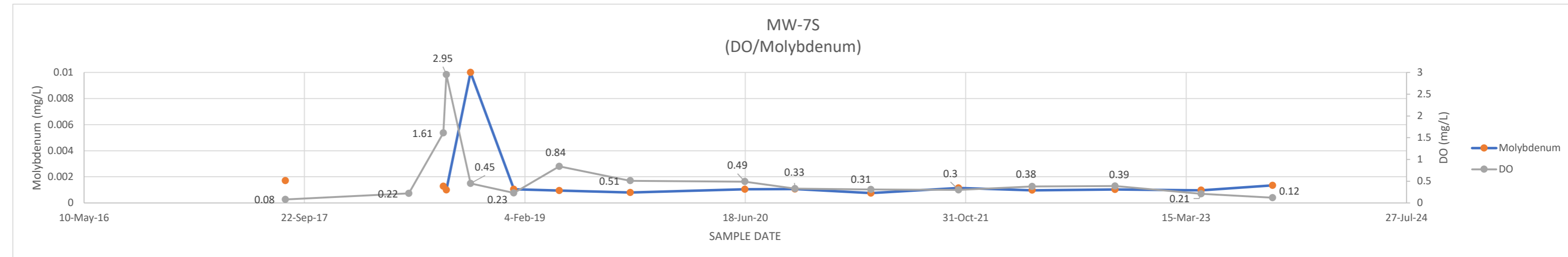
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

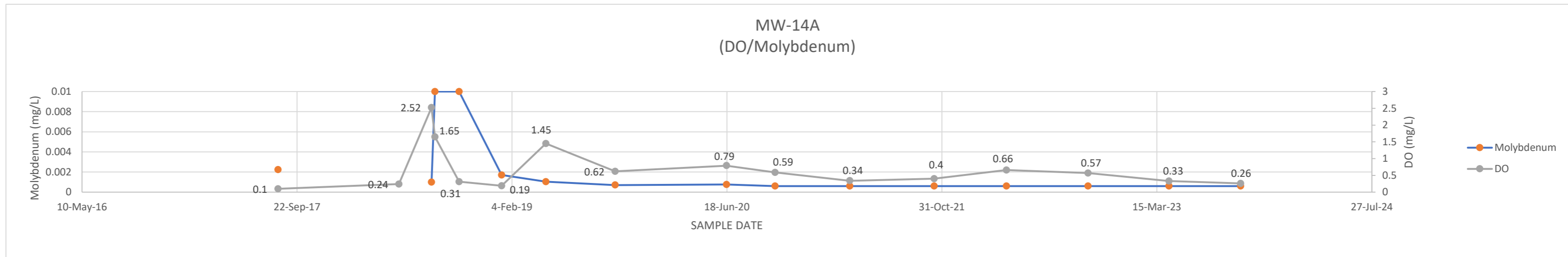
MW-5S	DO	MOLYBDENUM
DATE		
14-Aug-17	0.05	0.00737
22-May-18	0.13	
1-Aug-18	5.05	0.00497
10-Aug-18	1.37	0.00387
2-Oct-18	0.21	0.005
10-Jan-19	0.63	0.00512
23-Apr-19	0.85	0.00485
2-Oct-19	0.45	0.00315
18-Jun-20	1.89	0.00361
12-Oct-20	0.32	0.00244
1-Apr-21	0.81	0.00234
14-Oct-21	0.36	0.00387
31-Mar-22	0.31	0.00257
6-Oct-22	0.44	0.0021
12-Apr-23	0.37	0.00211
26-Sep-23	0.16	0.00307



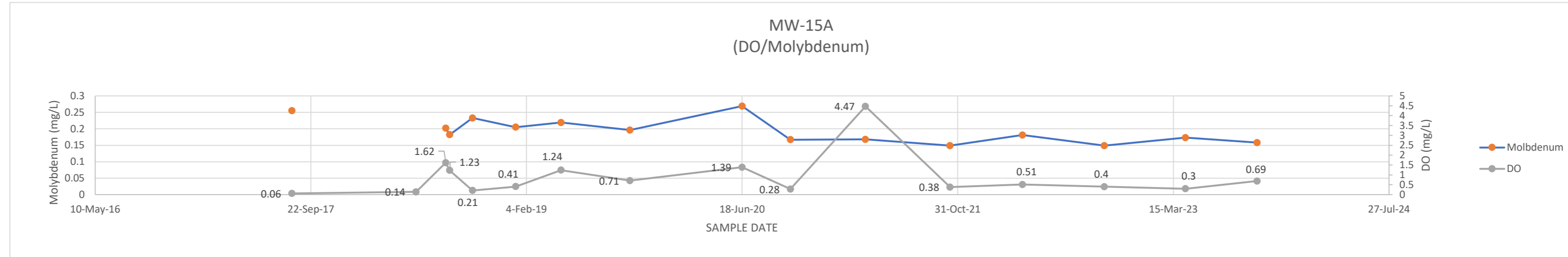
MW-7S	DO	MOLYBDENUM
DATE		
10-Aug-17	0.08	0.00171
17-May-18	0.22	
3-Aug-18	1.61	0.00127
10-Aug-18	2.95	0.001
4-Oct-18	0.45	0.01
10-Jan-19	0.23	0.00105
23-Apr-19	0.84	0.000952
1-Oct-19	0.51	0.000798
17-Jun-20	0.49	0.00105
9-Oct-20	0.33	0.00106
30-Mar-21	0.31	0.000755
15-Oct-21	0.3	0.00115
31-Mar-22	0.38	0.000973
5-Oct-22	0.39	0.00103
18-Apr-23	0.21	0.000973
27-Sep-23	0.12	0.00135



MW-14A	DO	MOLYBDENUM
DATE		
9-Aug-17	0.1	0.00223
17-May-18	0.24	
1-Aug-18	2.52	0.001
9-Aug-18	1.65	0.01
4-Oct-18	0.31	0.01
11-Jan-19	0.19	0.0017
24-Apr-19	1.45	0.00104
2-Oct-19	0.62	0.000709
17-Jun-20	0.79	0.00076
8-Oct-20	0.59	0.0006
31-Mar-21	0.34	0.0006
13-Oct-21	0.4	0.0006
30-Mar-22	0.66	0.0006
6-Oct-22	0.57	0.0006
12-Apr-23	0.33	0.0006
26-Sep-23	0.26	0.0006

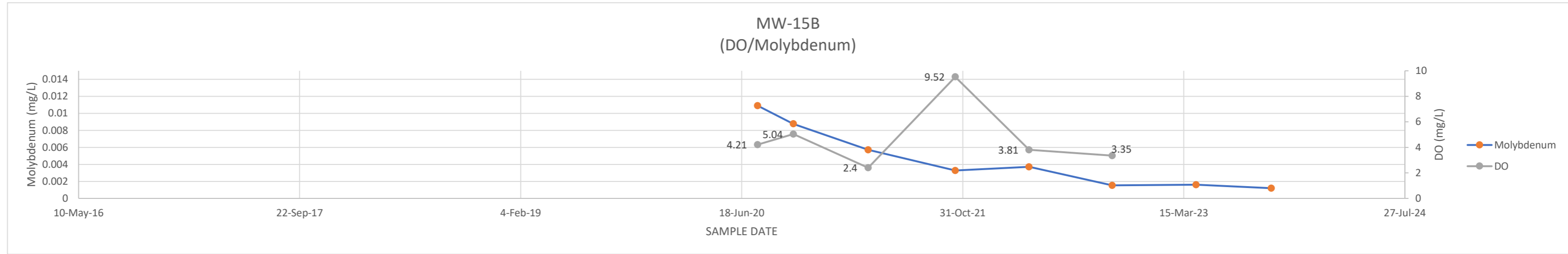


MW-15A	DO	MOLYBDENUM
DATE		
9-Aug-17	0.06	0.255
24-May-18	0.14	
1-Aug-18	1.62	0.202
10-Aug-18	1.23	0.182
2-Oct-18	0.21	0.233
10-Jan-19	0.41	0.205
25-Apr-19	1.24	0.219
2-Oct-19	0.71	0.196
18-Jun-20	4.47	0.269
8-Oct-20	0.28	0.167
31-Mar-21	1.39	0.168
13-Oct-21	0.38	0.149
30-Mar-22	0.51	0.181
6-Oct-22	0.4	0.149
12-Apr-23	0.3	0.173
25-Sep-23	0.69	0.158

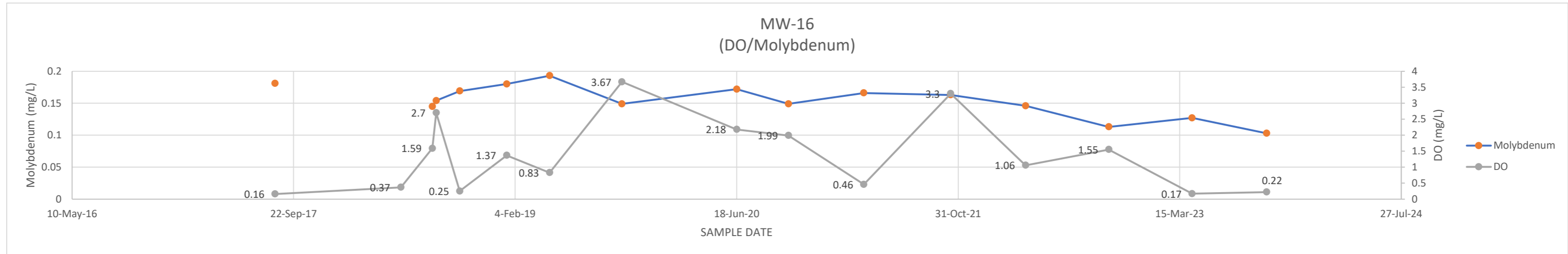


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

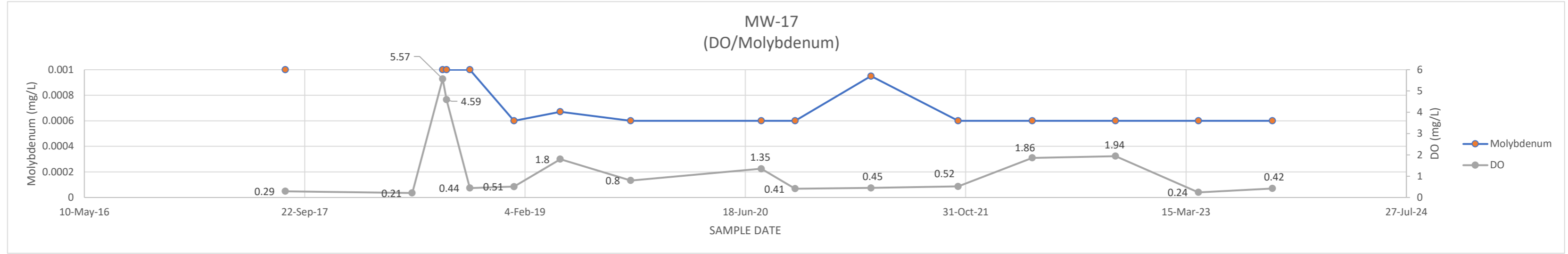
MW-15B	DO	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.21	0.0109
13-Oct-20	5.04	0.00876
31-Mar-21	2.4	0.00571
14-Oct-21	9.52	0.00328
30-Mar-22	3.81	0.0037
4-Oct-22	3.35	0.00153
12-Apr-23		0.0016
29-Sep-23		0.0012



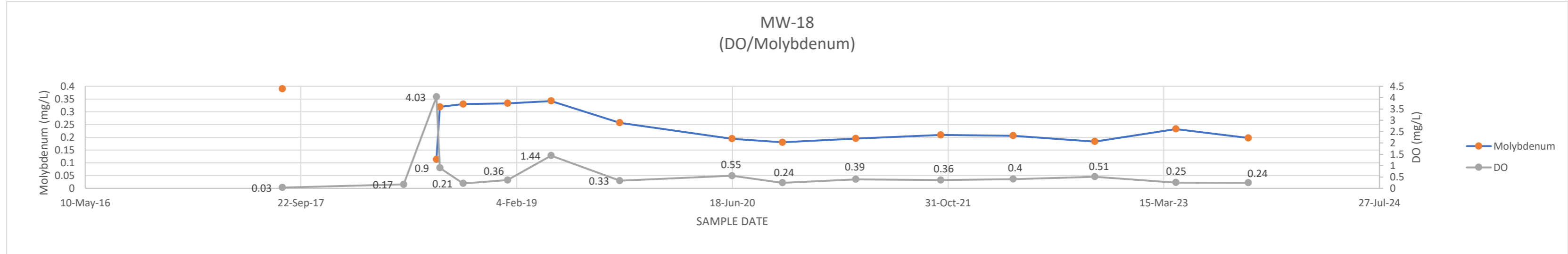
MW-16	DO	MOLYBDENUM
DATE		
11-Aug-17	0.16	0.181
22-May-18	0.37	
1-Aug-18	1.59	0.145
10-Aug-18	2.7	0.154
2-Oct-18	0.25	0.169
16-Jan-19	1.37	0.18
23-Apr-19	0.83	0.193
3-Oct-19	3.67	0.149
18-Jun-20	2.18	0.172
13-Oct-20	1.99	0.149
1-Apr-21	0.46	0.166
14-Oct-21	3.3	0.163
1-Apr-22	1.06	0.146
6-Oct-22	1.55	0.113
12-Apr-23	0.17	0.127
27-Sep-23	0.22	0.103



MW-17	DO	MOLYBDENUM
DATE		
9-Aug-17	0.29	0.001
24-May-18	0.21	
1-Aug-18	5.57	0.001
10-Aug-18	4.59	0.001
2-Oct-18	0.44	0.001
10-Jan-19	0.51	0.0006
25-Apr-19	1.8	0.000671
2-Oct-19	0.8	0.0006
24-Jul-20	1.35	0.0006
9-Oct-20	0.41	0.0006
30-Mar-21	0.45	0.00095
14-Oct-21	0.52	0.0006
31-Mar-22	1.86	0.0006
6-Oct-22	1.94	0.0006
12-Apr-23	0.24	0.0006
27-Sep-23	0.42	0.0006

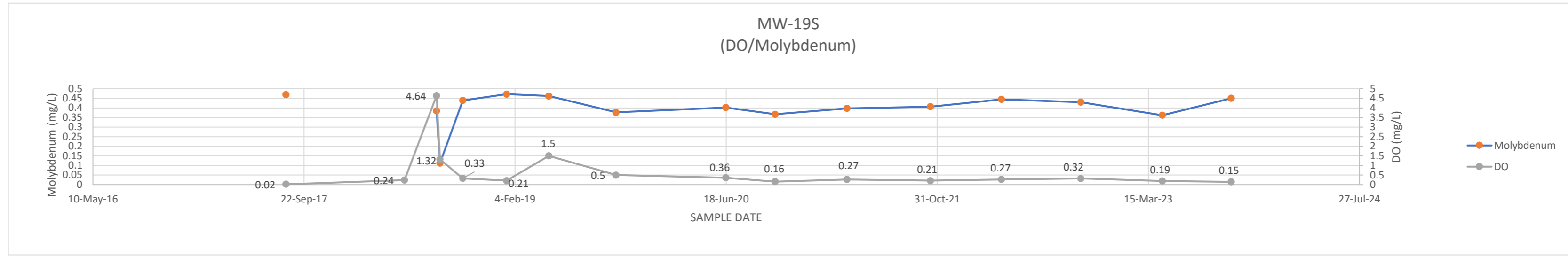


MW-18	ORP	MOLYBDENUM
DATE		
10-Aug-17	0.03	0.39
18-May-18	0.17	
2-Aug-18	4.03	0.113
10-Aug-18	0.9	0.319
3-Oct-18	0.21	0.33
14-Jan-19	0.36	0.333
25-Apr-19	1.44	0.342
1-Oct-19	0.33	0.257
17-Jun-20	0.55	0.194
12-Oct-20	0.24	0.18
31-Mar-21	0.39	0.195
14-Oct-21	0.36	0.209
31-Mar-22	0.4	0.206
6-Oct-22	0.51	0.183
12-Apr-23	0.25	0.232
27-Sep-23	0.24	0.197

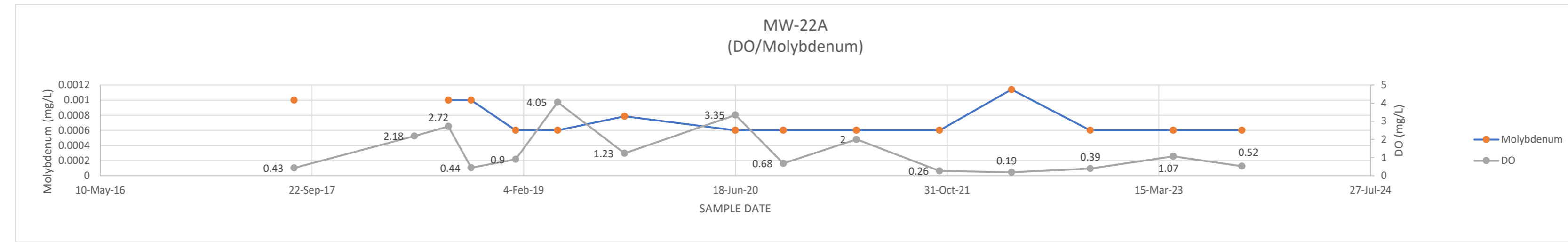


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

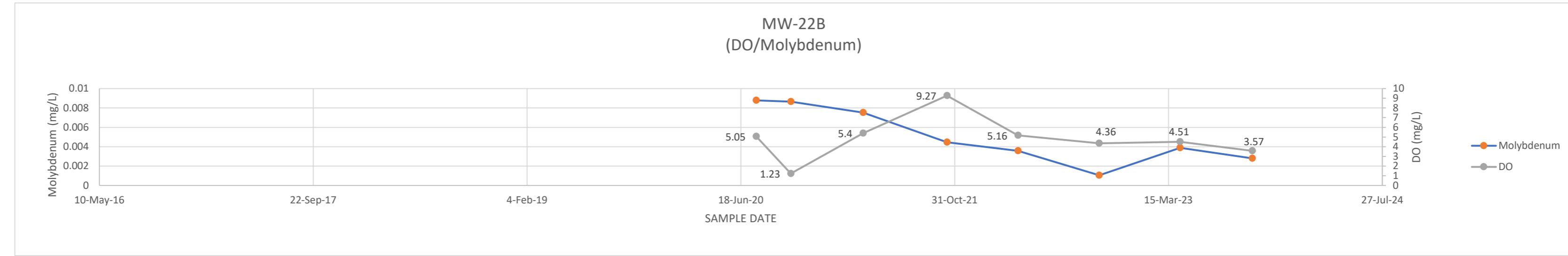
MW-19S	DO	MOLYBDENUM
DATE		
10-Aug-17	0.02	0.469
18-May-18	0.24	
2-Aug-18	4.64	0.384
10-Aug-18	1.32	0.112
3-Oct-18	0.33	0.439
15-Jan-19	0.21	0.472
25-Apr-19	1.5	0.462
1-Oct-19	0.5	0.377
17-Jun-20	0.36	0.402
12-Oct-20	0.16	0.367
31-Mar-21	0.27	0.398
15-Oct-21	0.21	0.407
1-Apr-22	0.27	0.445
6-Oct-22	0.32	0.43
17-Apr-23	0.19	0.362
27-Sep-23	0.15	0.45



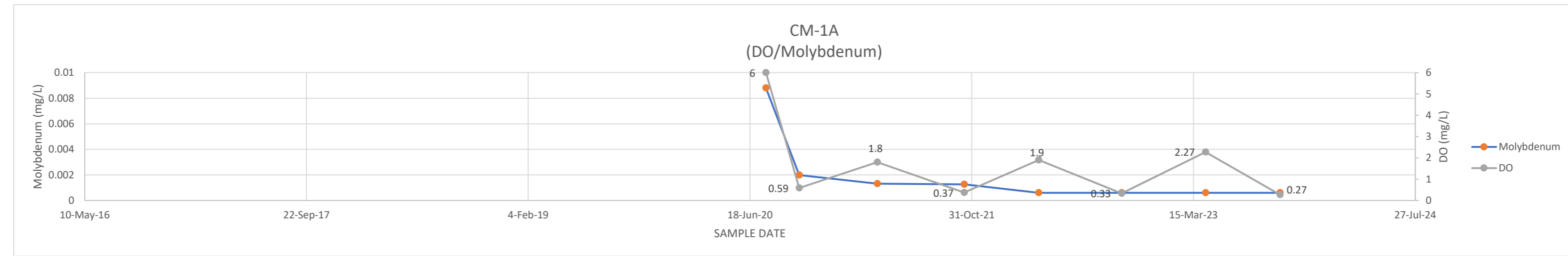
MW-22A	DO	MOLYBDENUM
DATE		
11-Aug-17	0.43	0.001
22-May-18	2.18	
10-Aug-18	2.72	0.001
3-Oct-18	0.44	0.001
16-Jan-19	0.9	0.0006
25-Apr-19	4.05	0.0006
30-Sep-19	1.23	0.000787
18-Jun-20	3.35	0.0006
9-Oct-20	0.68	0.0006
31-Mar-21	2	0.0006
13-Oct-21	0.26	0.0006
1-Apr-22	0.19	0.00114
4-Oct-22	0.39	0.0006
18-Apr-23	1.07	0.0006
27-Sep-23	0.52	0.0006



MW-22B	DO	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	5.05	0.00878
13-Oct-20	1.23	0.00866
31-Mar-21	5.4	0.00753
13-Oct-21	9.27	0.00446
28-Mar-22	5.16	0.00357
4-Oct-22	4.36	0.00105
11-Apr-23	4.51	0.00389
27-Sep-23	3.57	0.0028

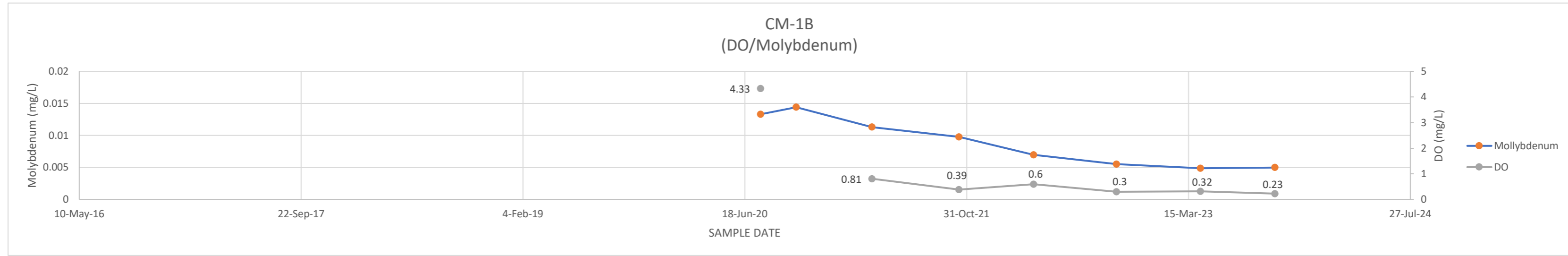


CM-1A	DO	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	6	0.0088
7-Oct-20	0.59	0.00198
1-Apr-21	1.8	0.00132
14-Oct-21	0.37	0.00127
31-Mar-22	1.9	0.0006
4-Oct-22	0.33	0.0006
11-Apr-23	2.27	0.0006
26-Sep-23	0.27	0.0006

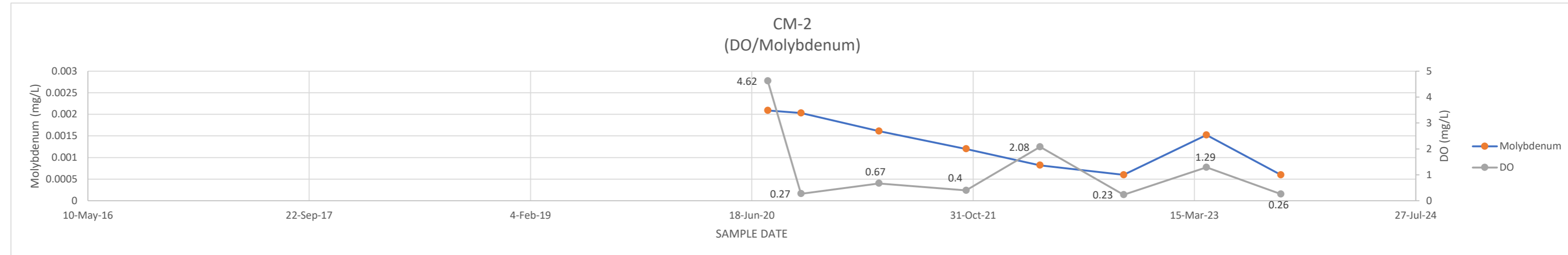


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

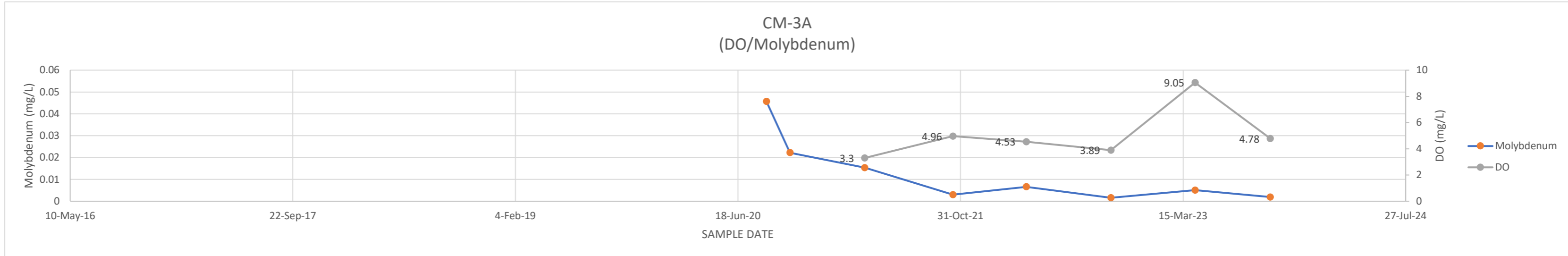
CM-1B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.33	0.0133
12-Oct-20		0.0144
1-Apr-21	0.81	0.0113
14-Oct-21	0.39	0.00976
31-Mar-22	0.6	0.00696
4-Oct-22	0.3	0.00551
11-Apr-23	0.32	0.00488
26-Sep-23	0.23	0.005



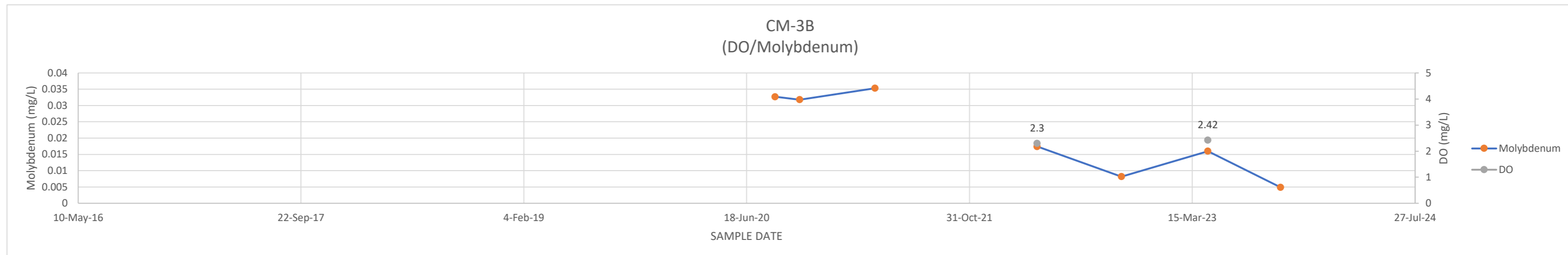
CM-2 DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.62	0.00209
7-Oct-20	0.27	0.00203
1-Apr-21	0.67	0.00161
15-Oct-21	0.4	0.0012
31-Mar-22	2.08	0.00082
6-Oct-22	0.23	0.0006
11-Apr-23	1.29	0.00152
26-Sep-23	0.26	0.0006



CM-3A DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	3.3	0.0153
14-Oct-21	4.96	0.00297
28-Mar-22	4.53	0.00656
4-Oct-22	3.89	0.00155
11-Apr-23	9.05	0.00503
27-Sep-23	4.78	0.00187

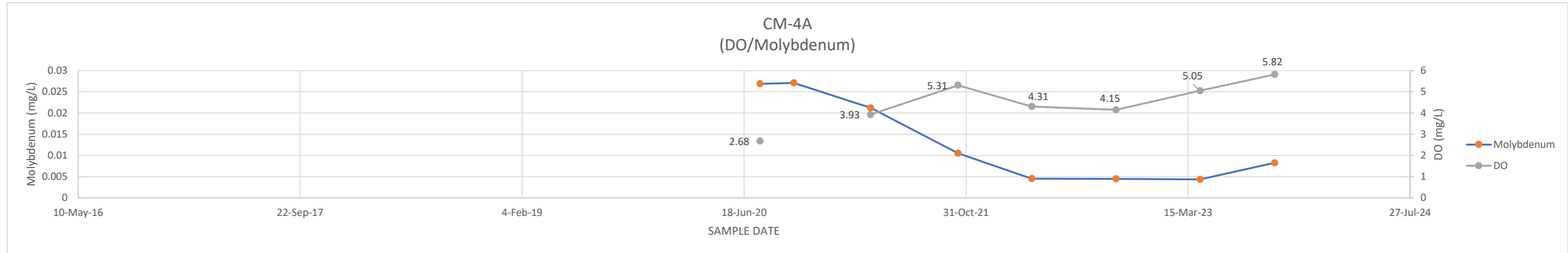


CM-3B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	2.3	0.0174
7-Oct-22		0.00819
19-Apr-23	2.42	0.016
29-Sep-23		0.0049

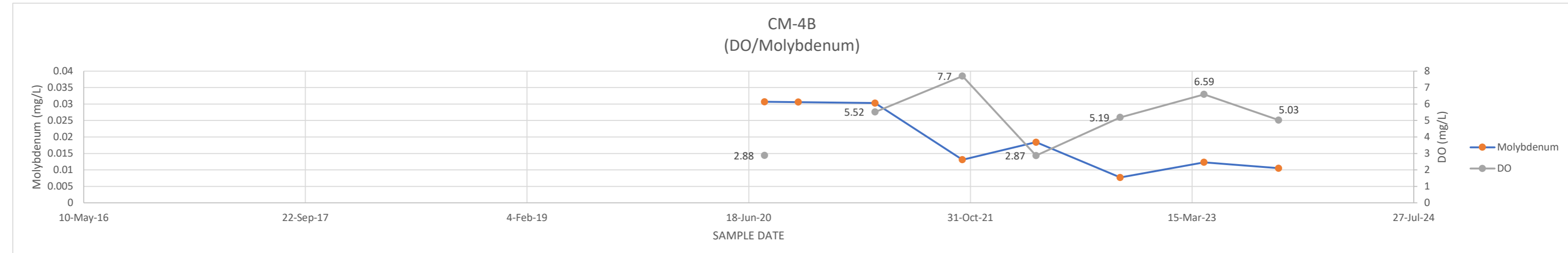


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

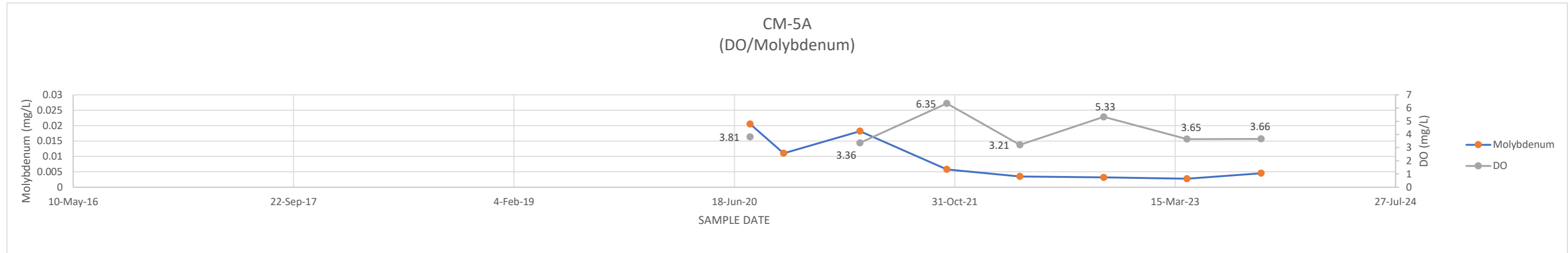
CM-4A DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.68	0.0269
8-Oct-20		0.0271
30-Mar-21	3.93	0.0212
13-Oct-21	5.31	0.0105
28-Mar-22	4.31	0.00455
4-Oct-22	4.15	0.00449
11-Apr-23	5.05	0.00436
26-Sep-23	5.82	0.00825



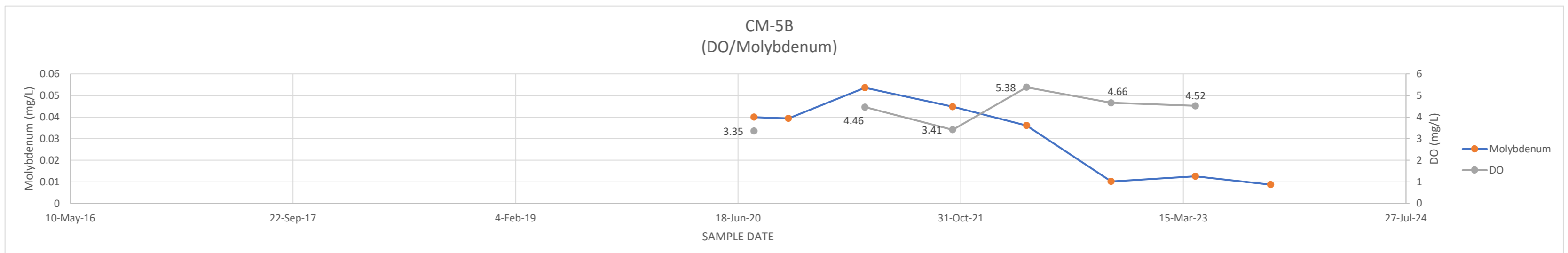
CM-4B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.88	0.0307
8-Oct-20		0.0306
30-Mar-21	5.52	0.0303
13-Oct-21	7.7	0.0131
28-Mar-22	2.87	0.0184
4-Oct-22	5.19	0.00771
11-Apr-23	6.59	0.0123
26-Sep-23	5.03	0.0105



CM-5A DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.81	0.0205
8-Oct-20		0.011
30-Mar-21	3.36	0.0182
13-Oct-21	6.35	0.0058
28-Mar-22	3.21	0.00351
4-Oct-22	5.33	0.00317
11-Apr-23	3.65	0.00276
26-Sep-23	3.66	0.00455



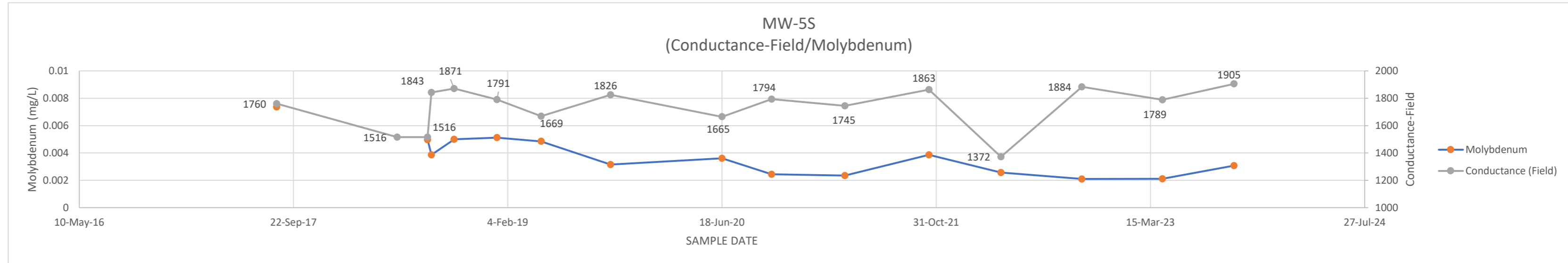
CM-5B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.35	0.04
9-Oct-20		0.0394
30-Mar-21	4.46	0.0536
13-Oct-21	3.41	0.0448
28-Mar-22	5.38	0.0361
4-Oct-22	4.66	0.0102
11-Apr-23	4.52	0.0126
27-Sep-23		0.00871



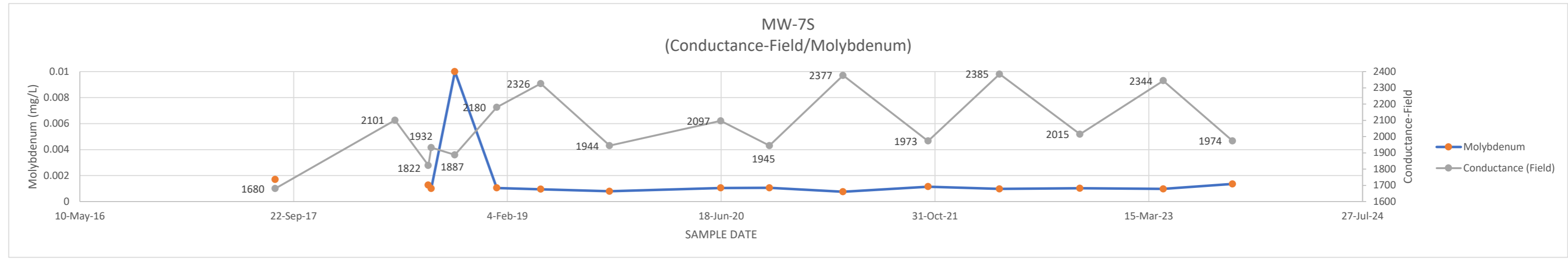
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3A
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

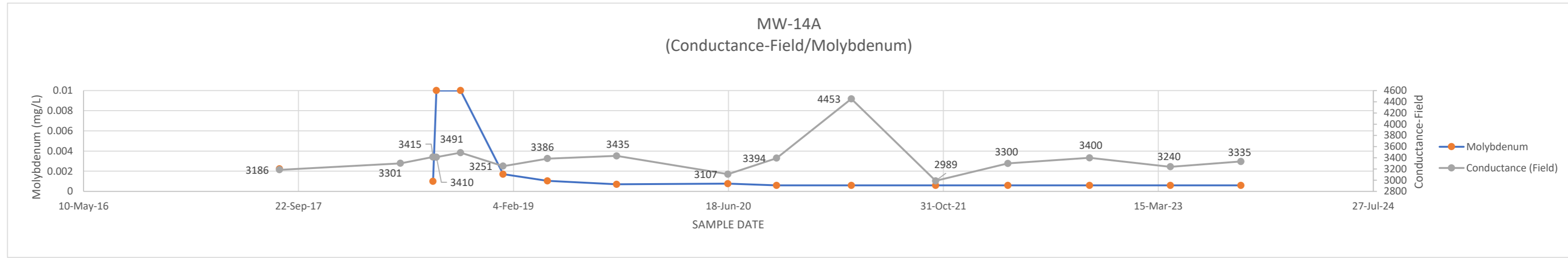
MW-5S	COND-Field	MOLYBDENUM
14-Aug-17	1760	0.00737
22-May-18	1516	
1-Aug-18	1516	0.00497
10-Aug-18	1843	0.00387
2-Oct-18	1871	0.005
10-Jan-19	1791	0.00512
23-Apr-19	1669	0.00485
2-Oct-19	1826	0.00315
18-Jun-20	1665	0.00361
12-Oct-20	1794	0.00244
1-Apr-21	1745	0.00234
14-Oct-21	1863	0.00387
31-Mar-22	1372	0.00257
6-Oct-22	1884	0.0021
12-Apr-23	1789	0.00211
26-Sep-23	1905	0.00307



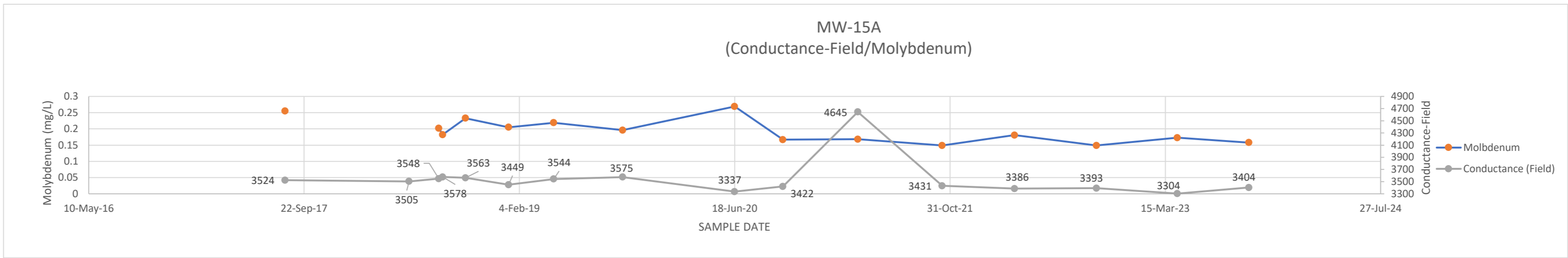
MW-7S	COND-Field	MOLYBDENUM
10-Aug-17	1680	0.00171
17-May-18	2101	
3-Aug-18	1822	0.00127
10-Aug-18	1932	0.001
4-Oct-18	1887	0.01
10-Jan-19	2180	0.00105
23-Apr-19	2326	0.000952
1-Oct-19	1944	0.000798
17-Jun-20	2097	0.00105
9-Oct-20	1945	0.00106
30-Mar-21	2377	0.000755
15-Oct-21	1973	0.00115
31-Mar-22	2385	0.000973
5-Oct-22	2015	0.00103
18-Apr-23	2344	0.000973
27-Sep-23	1974	0.00135



MW-14A	COND-Field	MOLYBDENUM
9-Aug-17	3186	0.00223
17-May-18	3301	
1-Aug-18	3415	0.001
9-Aug-18	3410	0.01
4-Oct-18	3491	0.01
11-Jan-19	3251	0.0017
24-Apr-19	3386	0.00104
2-Oct-19	3435	0.000709
17-Jun-20	3107	0.00076
8-Oct-20	3394	0.0006
31-Mar-21	4453	0.0006
13-Oct-21	2989	0.0006
30-Mar-22	3300	0.0006
6-Oct-22	3400	0.0006
12-Apr-23	3240	0.0006
23-Sep-23	3335	0.0006

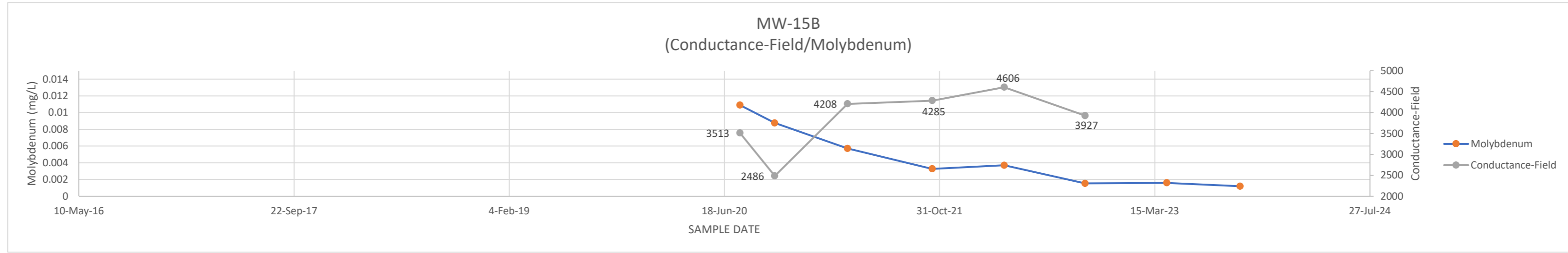


MW-15A	COND-Field	MOLYBDENUM
9-Aug-17	3524	0.255
24-May-18	3505	
1-Aug-18	3548	0.202
10-Aug-18	3578	0.182
2-Oct-18	3563	0.233
10-Jan-19	3449	0.205
25-Apr-19	3544	0.219
2-Oct-19	3575	0.196
18-Jun-20	3337	0.269
8-Oct-20	3422	0.167
31-Mar-21	4645	0.168
13-Oct-21	3431	0.149
30-Mar-22	3386	0.181
6-Oct-22	3393	0.149
12-Apr-23	3304	0.173
25-Sep-23	3404	0.158

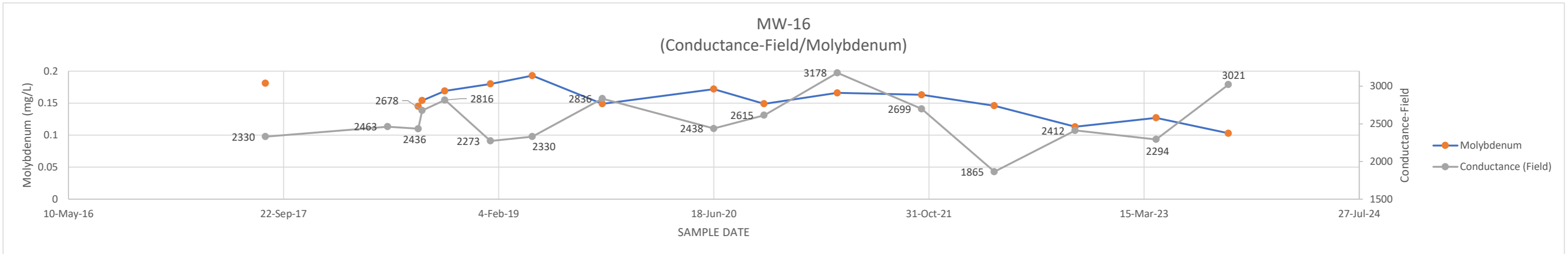


ATTACHMENT G-3A
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

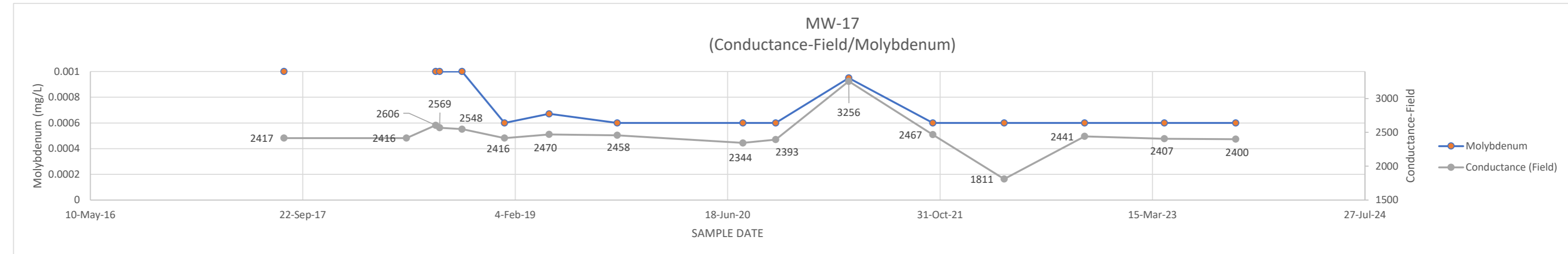
MW-15B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3513	0.0109
13-Oct-20	2486	0.00876
31-Mar-21	4208	0.00571
14-Oct-21	4285	0.00328
30-Mar-22	4606	0.0037
4-Oct-22	3927	0.00153
12-Apr-23		0.0016
29-Sep-23		0.0012



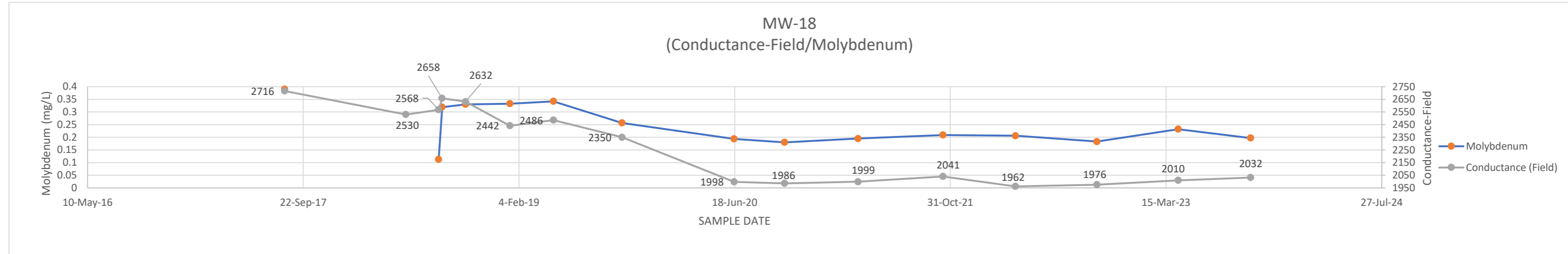
MW-16	COND-Field	MOLYBDENUM
DATE		
11-Aug-17	2330	0.181
22-May-18	2463	
1-Aug-18	2436	0.145
10-Aug-18	2678	0.154
2-Oct-18	2816	0.169
16-Jan-19	2273	0.18
23-Apr-19	2330	0.193
3-Oct-19	2836	0.149
18-Jun-20	2438	0.172
13-Oct-20	2615	0.149
1-Apr-21	3178	0.166
14-Oct-21	2699	0.163
1-Apr-22	1865	0.146
6-Oct-22	2412	0.113
12-Apr-23	2294	0.127
27-Sep-23	3021	0.103



MW-17	COND-Field	MOLYBDENUM
DATE		
9-Aug-17	2417	0.001
24-May-18	2416	
1-Aug-18	2606	0.001
10-Aug-18	2569	0.001
2-Oct-18	2548	0.001
10-Jan-19	2416	0.0006
25-Apr-19	2470	0.000671
2-Oct-19	2458	0.0006
24-Jul-20	2344	0.0006
9-Oct-20	2393	0.0006
30-Mar-21	3256	0.00095
14-Oct-21	2467	0.0006
31-Mar-22	1811	0.0006
6-Oct-22	2441	0.0006
12-Apr-23	2407	0.0006
27-Sep-23	2400	0.0006

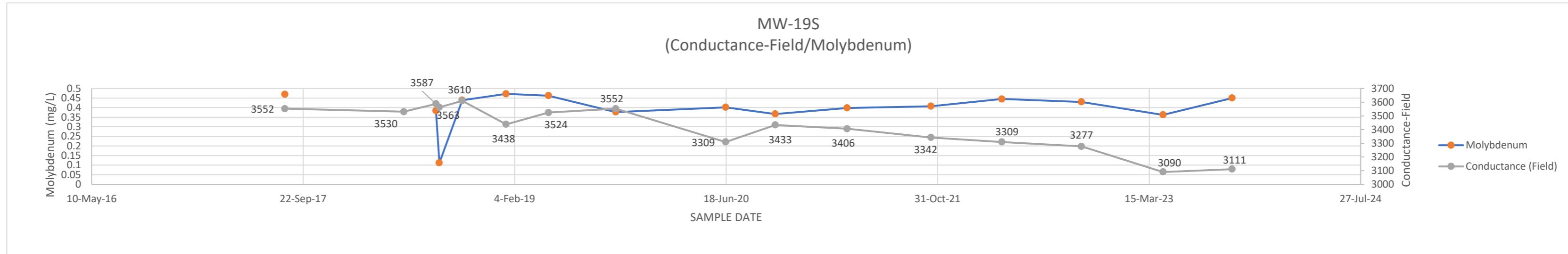


MW-18	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	2716	0.39
18-May-18	2530	
2-Aug-18	2568	0.113
10-Aug-18	2658	0.319
3-Oct-18	2632	0.33
14-Jan-19	2442	0.333
25-Apr-19	2486	0.342
1-Oct-19	2350	0.257
17-Jun-20	1998	0.194
12-Oct-20	1986	0.18
31-Mar-21	1999	0.195
14-Oct-21	2041	0.209
31-Mar-22	1962	0.206
6-Oct-22	1976	0.183
12-Apr-23	2010	0.232
27-Sep-23	2032	0.197

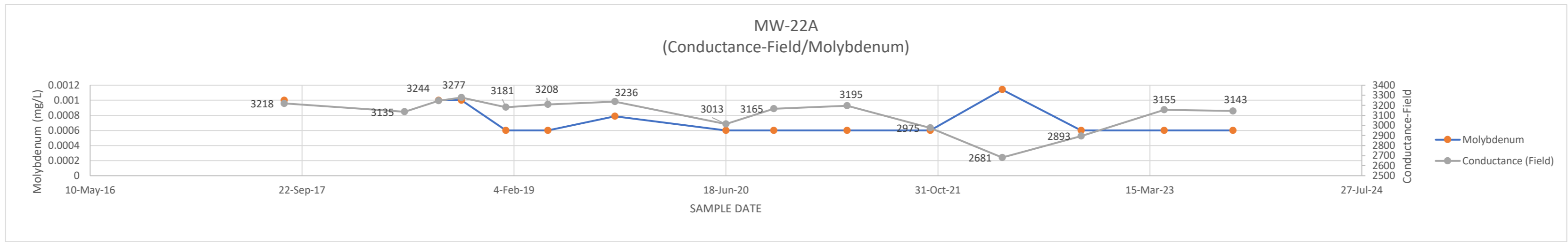


ATTACHMENT G-3A
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

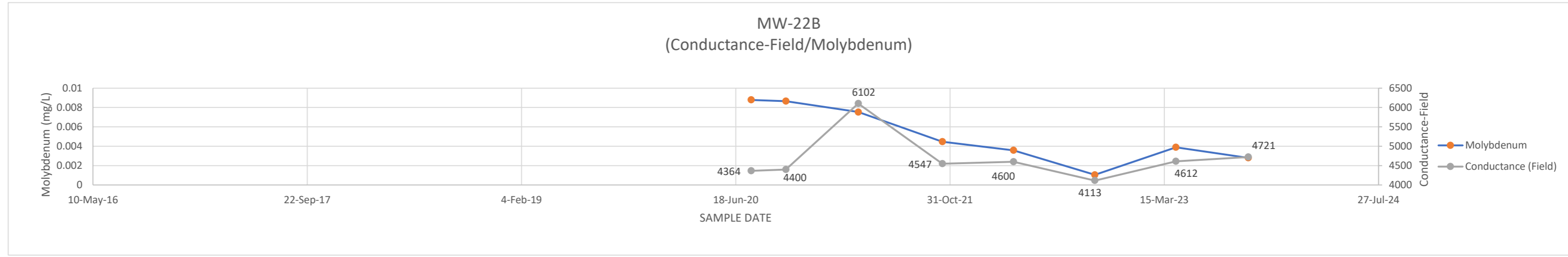
MW-19S	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	3552	0.469
18-May-18	3530	
2-Aug-18	3587	0.384
10-Aug-18	3563	0.112
3-Oct-18	3610	0.439
15-Jan-19	3438	0.472
25-Apr-19	3524	0.462
1-Oct-19	3552	0.377
17-Jun-20	3309	0.402
12-Oct-20	3433	0.367
31-Mar-21	3406	0.398
15-Oct-21	3342	0.407
1-Apr-22	3309	0.445
6-Oct-22	3277	0.43
17-Apr-23	3090	0.362
27-Sep-23	3111	0.45



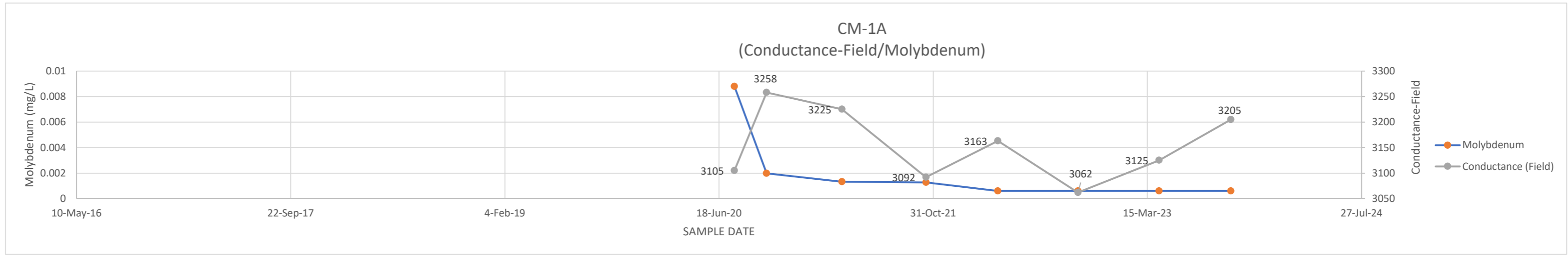
MW-22A	COND-Field	MOLYBDENUM
DATE		
11-Aug-17	3218	0.001
22-May-18	3135	
10-Aug-18	3244	0.001
3-Oct-18	3277	0.001
16-Jan-19	3181	0.0006
25-Apr-19	3208	0.0006
30-Sep-19	3236	0.000787
18-Jun-20	3013	0.0006
9-Oct-20	3165	0.0006
31-Mar-21	3195	0.0006
13-Oct-21	2975	0.0006
1-Apr-22	2681	0.00114
4-Oct-22	2893	0.0006
18-Apr-23	3155	0.0006
27-Sep-23	3143	0.0006



MW-22B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4364	0.00878
13-Oct-20	4400	0.00866
31-Mar-21	6102	0.00753
13-Oct-21	4547	0.00446
28-Mar-22	4600	0.00357
4-Oct-22	4113	0.00105
11-Apr-23	4612	0.00389
27-Sep-23	4721	0.0028

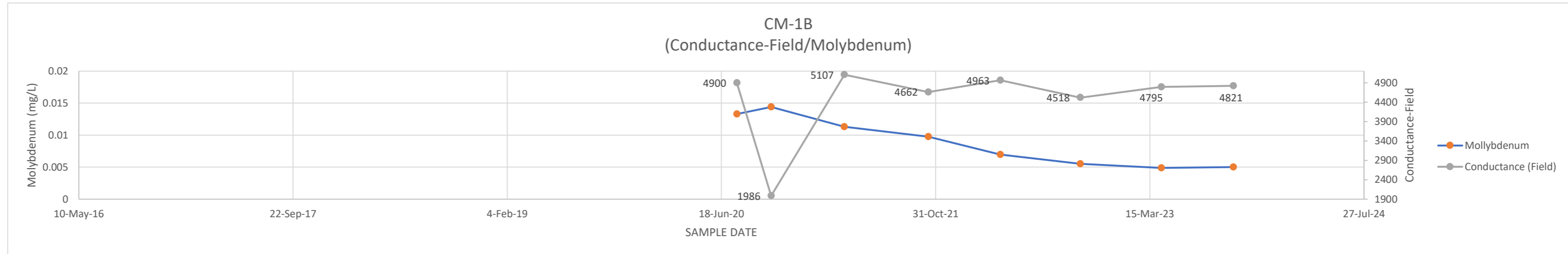


CM-1A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3105	0.0088
7-Oct-20	3258	0.00198
1-Apr-21	3225	0.00132
14-Oct-21	3092	0.00127
31-Mar-22	3163	0.0006
4-Oct-22	3062	0.0006
11-Apr-23	3125	0.0006
26-Sep-23	3205	0.0006

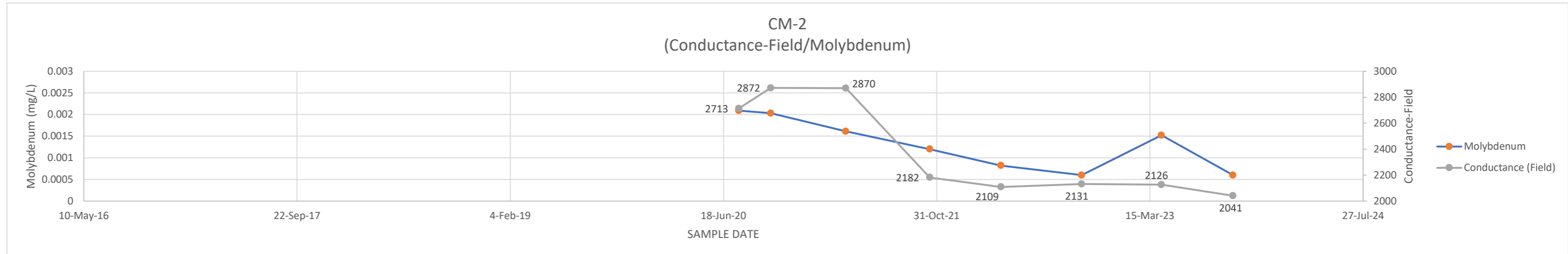


ATTACHMENT G-3A
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

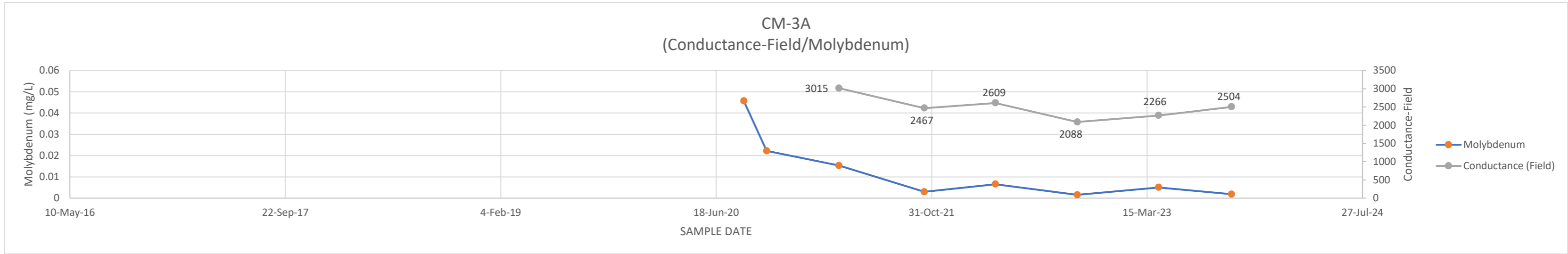
CM-1B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4900	0.0133
12-Oct-20	1986	0.0144
1-Apr-21	5107	0.0113
14-Oct-21	4662	0.00976
31-Mar-22	4963	0.00696
4-Oct-22	4518	0.00551
11-Apr-23	4795	0.00488
26-Sep-23	4821	0.005



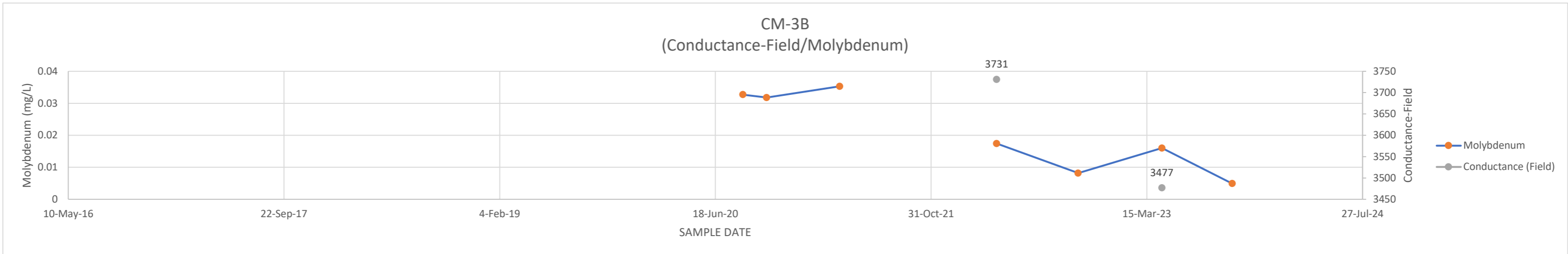
CM-2 DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2713	0.00209
7-Oct-20	2872	0.00203
1-Apr-21	2870	0.00161
15-Oct-21	2182	0.0012
31-Mar-22	2109	0.00082
6-Oct-22	2131	0.0006
11-Apr-23	2126	0.00152
26-Sep-23	2041	0.0006



CM-3A DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	3015	0.0153
14-Oct-21	2467	0.00297
28-Mar-22	2609	0.00656
4-Oct-22	2088	0.00155
11-Apr-23	2266	0.00503
27-Sep-23	2504	0.00187

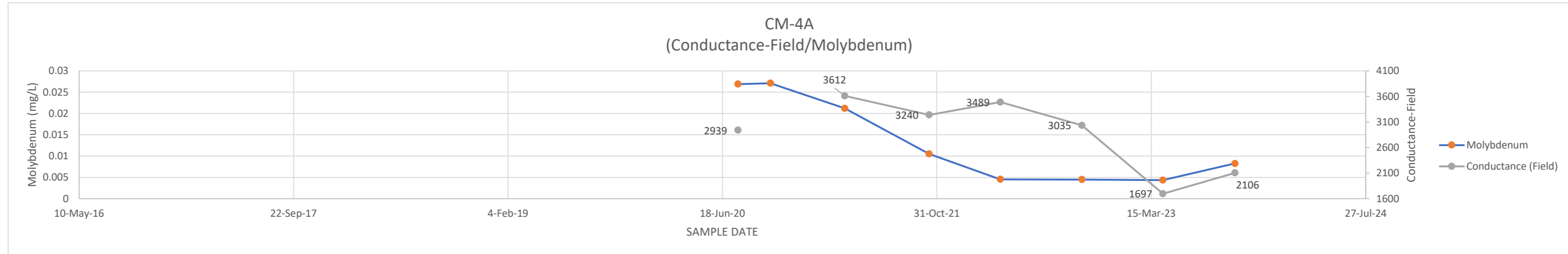


CM-3B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	3731	0.0174
7-Oct-22		0.00819
19-Apr-23	3477	0.016
29-Sep-23		0.0049

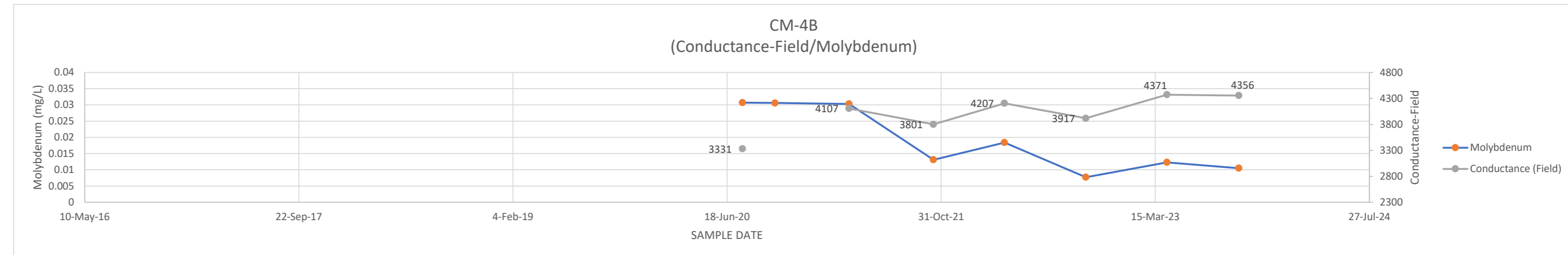


ATTACHMENT G-3A
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

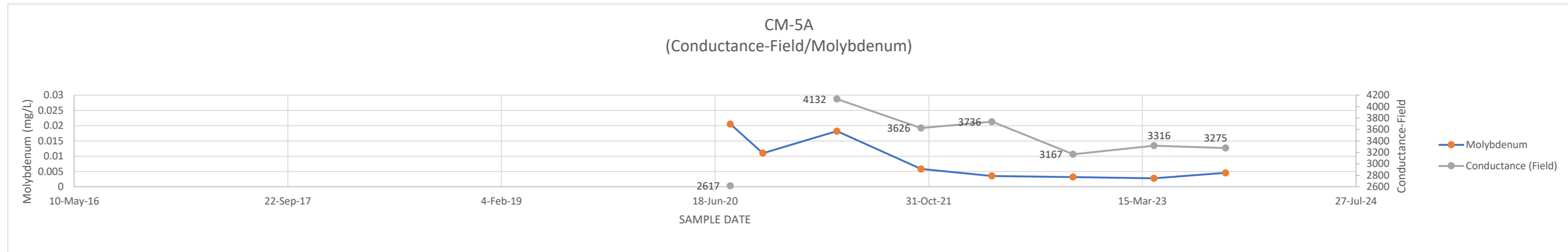
CM-4A DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2939	0.0269
8-Oct-20		0.0271
30-Mar-21	3612	0.0212
13-Oct-21	3240	0.0105
28-Mar-22	3489	0.00455
4-Oct-22	3035	0.00449
11-Apr-23	1697	0.00436
26-Sep-23	2106	0.00825



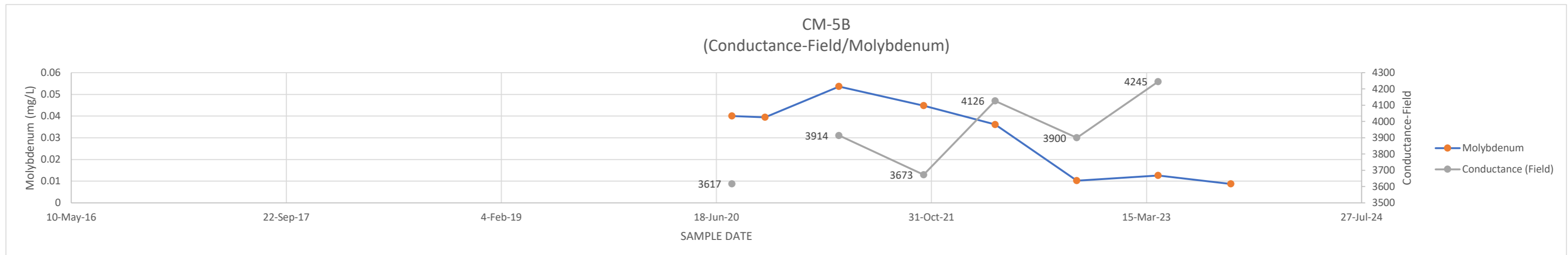
CM-4B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3331	0.0307
8-Oct-20		0.0306
30-Mar-21	4107	0.0303
13-Oct-21	3801	0.0131
28-Mar-22	4207	0.0184
4-Oct-22	3917	0.00771
11-Apr-23	4371	0.0123
26-Sep-23	4356	0.0105



CM-5A DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2617	0.0205
8-Oct-20		0.011
30-Mar-21	4132	0.0182
13-Oct-21	3626	0.0058
28-Mar-22	3736	0.00351
4-Oct-22	3167	0.00317
11-Apr-23	3316	0.00276
26-Sep-23	3275	0.00455



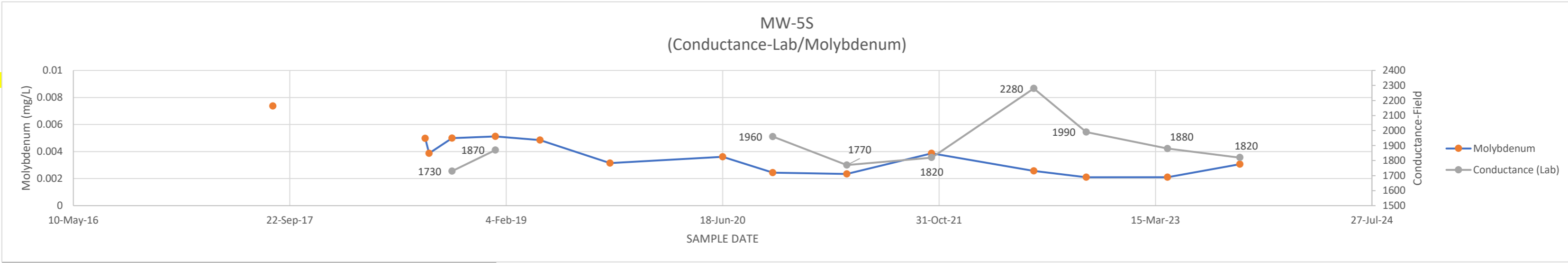
CM-5B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3617	0.04
9-Oct-20		0.0394
30-Mar-21	3914	0.0536
13-Oct-21	3673	0.0448
28-Mar-22	4126	0.0361
4-Oct-22	3900	0.0102
11-Apr-23	4245	0.0126
27-Sep-23		0.00871



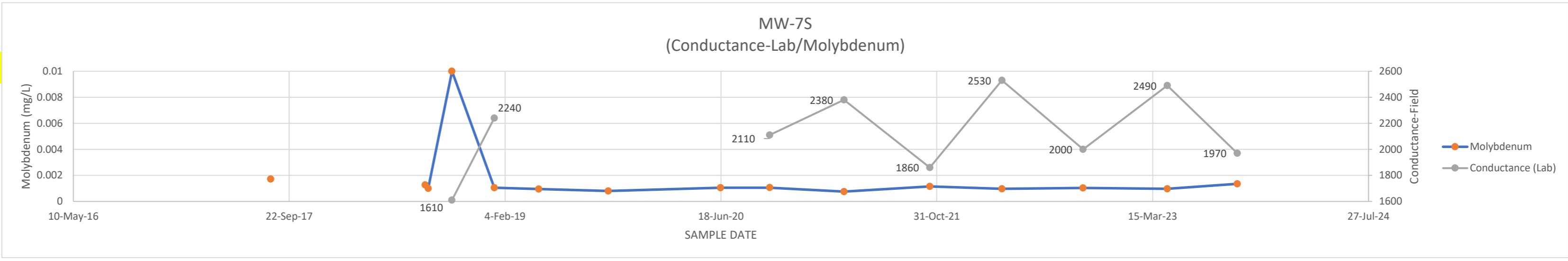
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3B
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

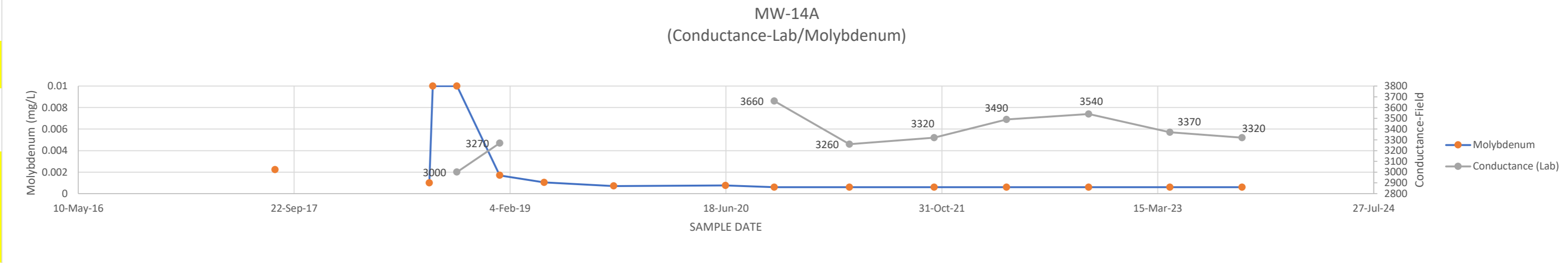
MW-5S	COND-Lab	MOLYBDENUM
DATE		
14-Aug-17		0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18	1730	0.005
10-Jan-19	1870	0.00512
23-Apr-19		0.00485
2-Oct-19		0.00315
18-Jun-20		0.00361
12-Oct-20	1960	0.00244
1-Apr-21	1770	0.00234
14-Oct-21	1820	0.00387
7-Jun-22	2280	0.00257
6-Oct-22	1990	0.0021
12-Apr-23	1880	0.00211
26-Sep-23	1820	0.00307



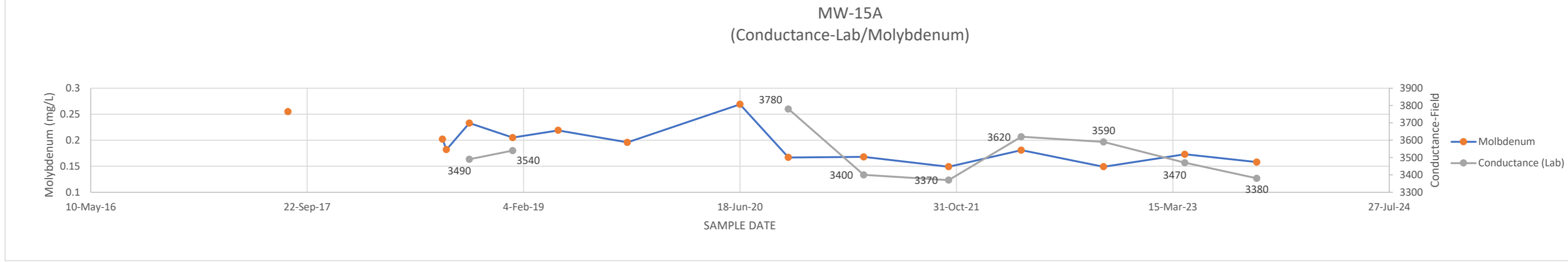
MW-7S	COND-Lab	MOLYBDENUM
DATE		
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18	1610	0.01
10-Jan-19	2240	0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20		0.00105
9-Oct-20	2110	0.00106
30-Mar-21	2380	0.000755
15-Oct-21	1860	0.00115
31-Mar-22	2530	0.000973
5-Oct-22	2000	0.00103
18-Apr-23	2490	0.000973
27-Sep-23	1970	0.00135



MW-14A	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18	3000	0.01
11-Jan-19	3270	0.0017
24-Apr-19		0.00104
2-Oct-19		0.000709
17-Jun-20		0.00076
8-Oct-20	3660	0.0006
31-Mar-21	3260	0.0006
13-Oct-21	3320	0.0006
30-Mar-22	3490	0.0006
6-Oct-22	3540	0.0006
12-Apr-23	3370	0.0006
26-Sep-23	3320	0.0006

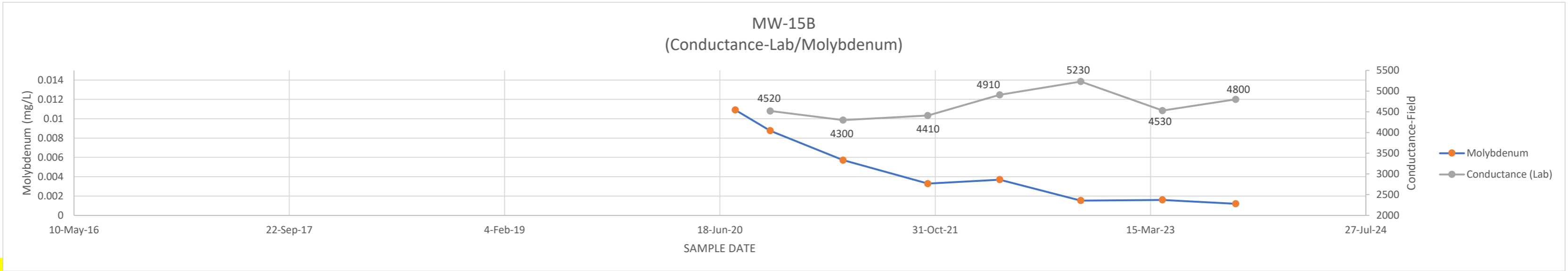


MW-15A	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18	3490	0.233
10-Jan-19	3540	0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20		0.269
8-Oct-20	3780	0.167
31-Mar-21	3400	0.168
13-Oct-21	3370	0.149
30-Mar-22	3620	0.181
6-Oct-22	3590	0.149
12-Apr-23	3470	0.173
25-Sep-23	3380	0.158

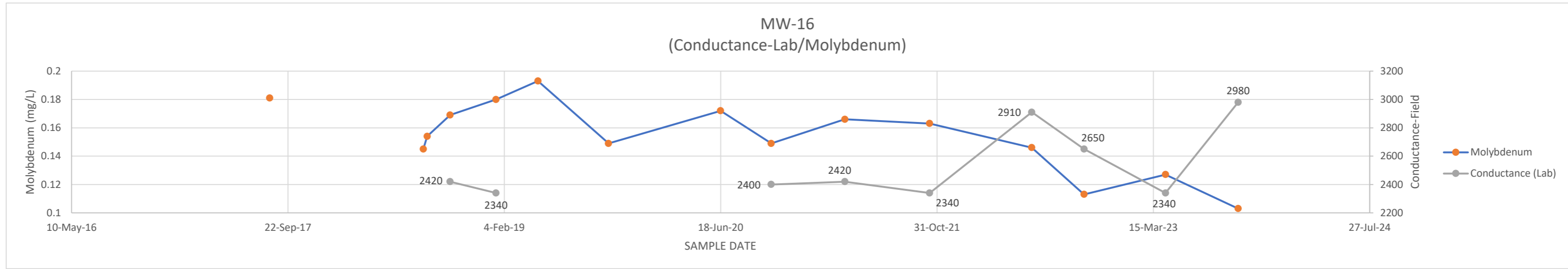


ATTACHMENT G-3B
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

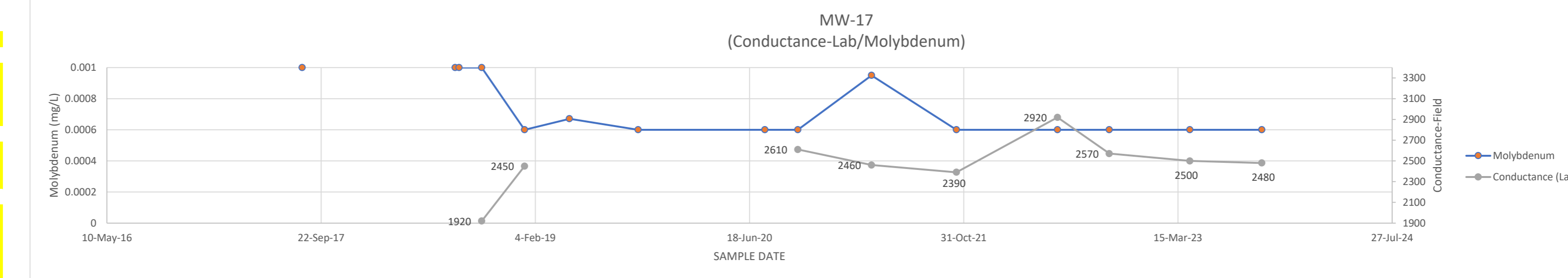
MW-15B	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0109
13-Oct-20	4520	0.00876
31-Mar-21	4300	0.00571
14-Oct-21	4410	0.00328
30-Mar-22	4910	0.0037
4-Oct-22	5230	0.00153
12-Apr-23	4530	0.0016
29-Sep-23	4800	0.0012



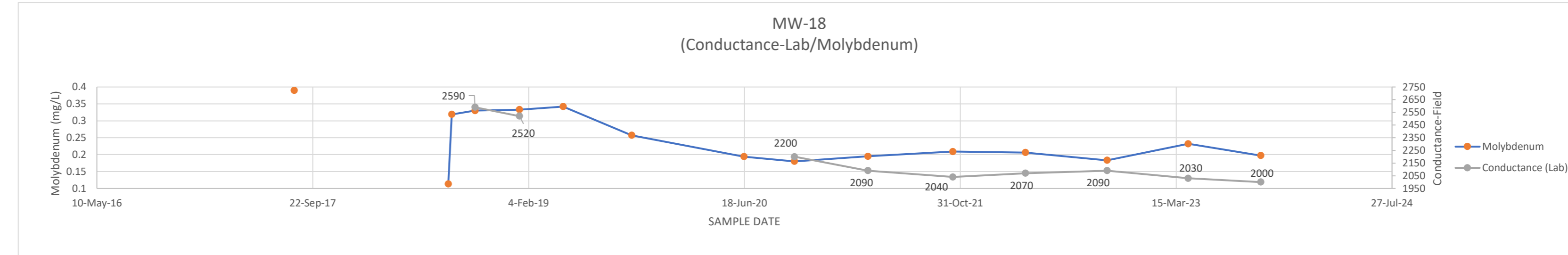
MW-16	COND-Lab	MOLYBDENUM
DATE		
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18	2420	0.169
16-Jan-19	2340	0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20		0.172
13-Oct-20	2400	0.149
1-Apr-21	2420	0.166
14-Oct-21	2340	0.163
7-Jun-22	2910	0.146
6-Oct-22	2650	0.113
12-Apr-23	2340	0.127
27-Sep-23	2980	0.103



MW-17	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		0.001
24-May-18		
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18	1920	0.001
10-Jan-19	2450	0.0006
25-Apr-19		0.000671
2-Oct-19		0.0006
24-Jul-20		0.0006
9-Oct-20	2610	0.0006
30-Mar-21	2460	0.00095
14-Oct-21	2390	0.0006
7-Jun-22	2920	0.0006
6-Oct-22	2570	0.0006
12-Apr-23	2500	0.0006
27-Sep-23	2480	0.0006

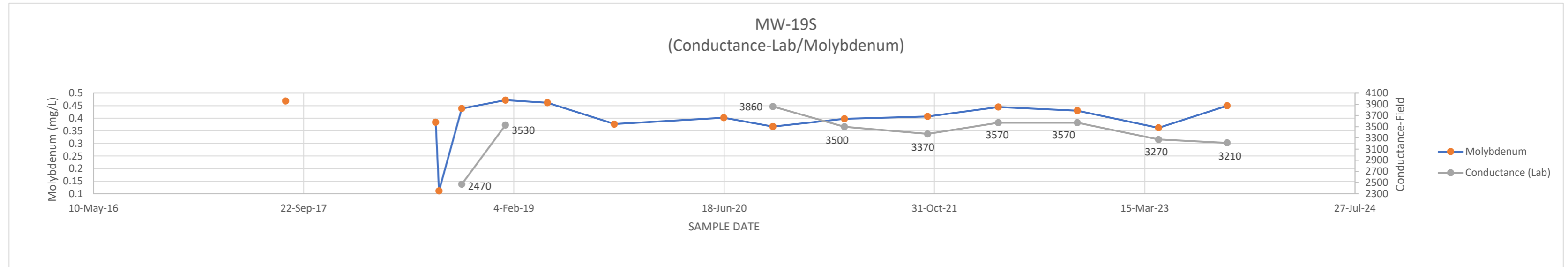


MW-18	COND-Lab	MOLYBDENUM
DATE		
10-Aug-17		0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18	2590	0.33
14-Jan-19	2520	0.333
25-Apr-19		0.342
1-Oct-19		0.257
17-Jun-20		0.194
12-Oct-20	2200	0.18
31-Mar-21	2090	0.195
14-Oct-21	2040	0.209
31-Mar-22	2070	0.206
6-Oct-22	2090	0.183
12-Apr-23	2030	0.232
27-Sep-23	2000	0.197

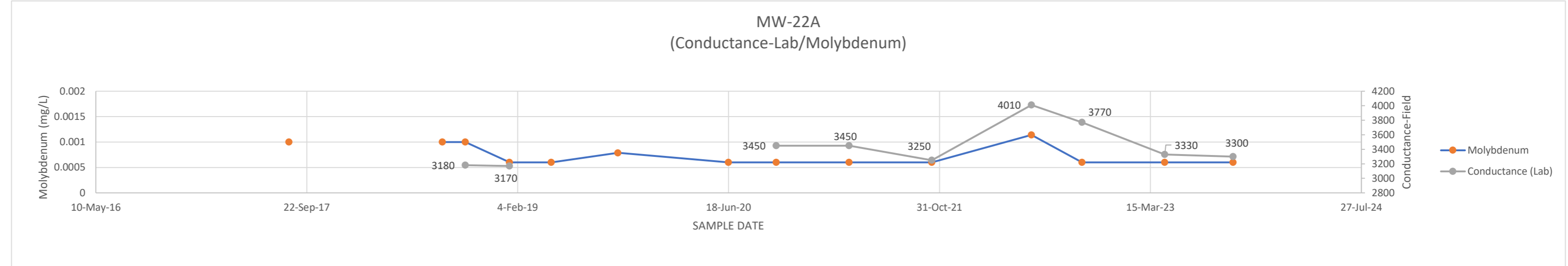


ATTACHMENT G-3B
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

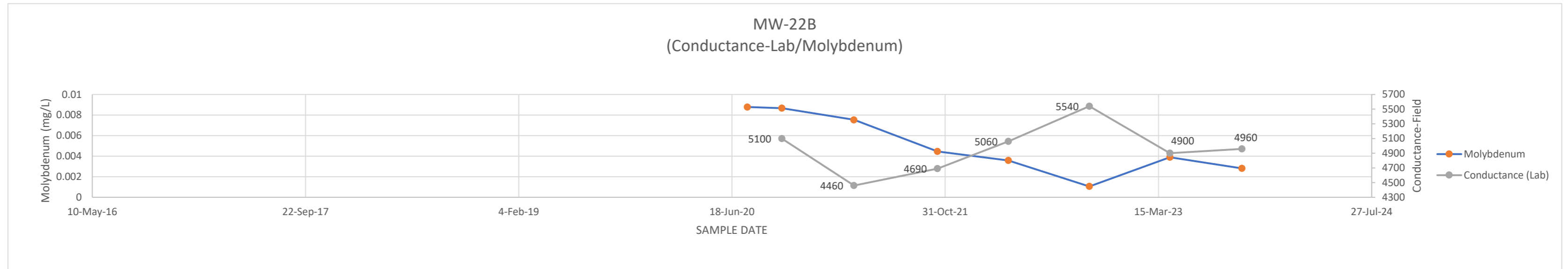
MW-19S	COND-Lab	MOLYBDENUM
DATE		
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18	2470	0.439
15-Jan-19	3530	0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20		0.402
12-Oct-20	3860	0.367
31-Mar-21	3500	0.398
15-Oct-21	3370	0.407
1-Apr-22	3570	0.445
6-Oct-22	3570	0.43
17-Apr-23	3270	0.362
27-Sep-23	3210	0.45



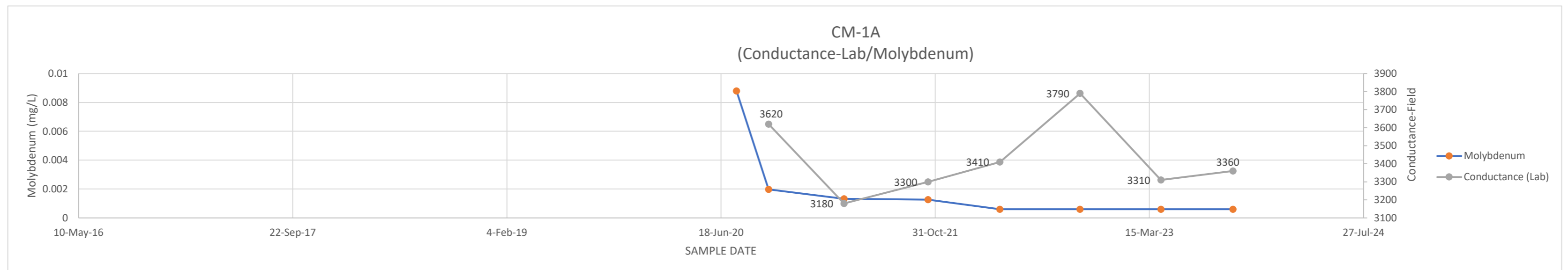
MW-22A	COND-Lab	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18	3180	0.001
16-Jan-19	3170	0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20		0.0006
9-Oct-20	3450	0.0006
31-Mar-21	3450	0.0006
13-Oct-21	3250	0.0006
6-Jun-22	4010	0.00114
4-Oct-22	3770	0.0006
18-Apr-23	3330	0.0006
27-Sep-23	3300	0.0006



MW-22B	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00878
13-Oct-20	5100	0.00866
31-Mar-21	4460	0.00753
13-Oct-21	4690	0.00446
28-Mar-22	5060	0.00357
4-Oct-22	5540	0.00105
11-Apr-23	4900	0.00389
27-Sep-23	4960	0.0028

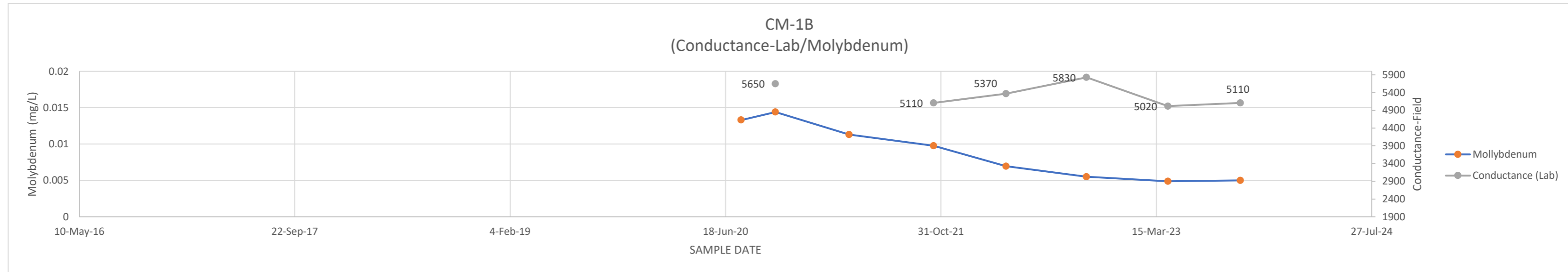


CM-1A	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20	3620	0.00198
1-Apr-21	3180	0.00132
14-Oct-21	3300	0.00127
31-Mar-22	3410	0.0006
4-Oct-22	3790	0.0006
11-Apr-23	3310	0.0006
26-Sep-23	3360	0.0006

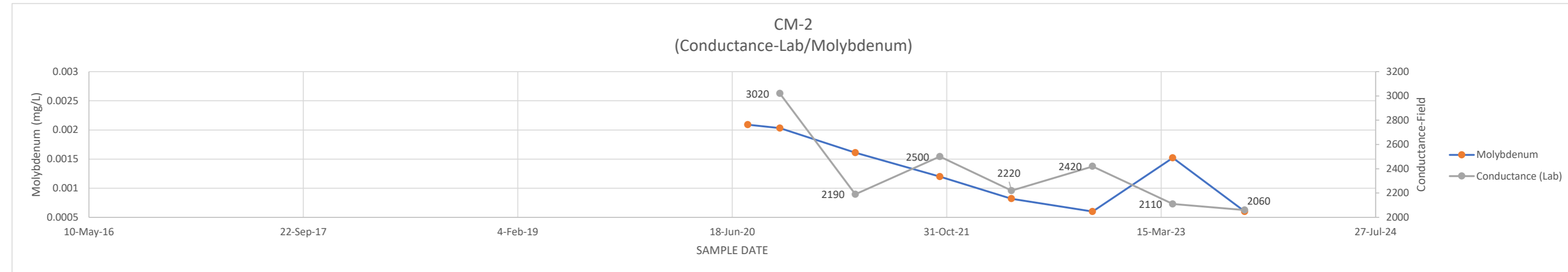


ATTACHMENT G-3B
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

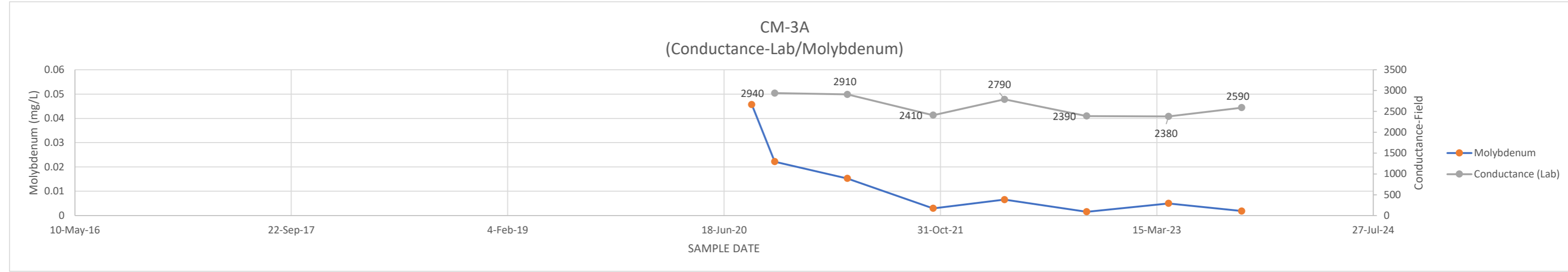
CM-1B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20	5650	0.0144
1-Apr-21		0.0113
14-Oct-21	5110	0.00976
31-Mar-22	5370	0.00696
4-Oct-22	5830	0.00551
11-Apr-23	5020	0.00488
26-Sep-23	5110	0.005



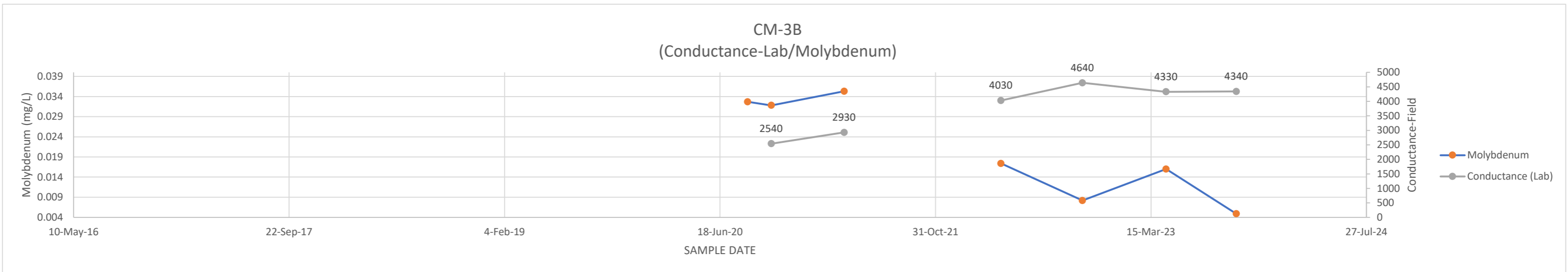
CM-2 DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20	3020	0.00203
1-Apr-21	2190	0.00161
15-Oct-21	2500	0.0012
31-Mar-22	2220	0.00082
6-Oct-22	2420	0.0006
11-Apr-23	2110	0.00152
26-Sep-23	2060	0.0006



CM-3A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20	2940	0.0222
30-Mar-21	2910	0.0153
14-Oct-21	2410	0.00297
28-Mar-22	2790	0.00656
4-Oct-22	2390	0.00155
11-Apr-23	2380	0.00503
27-Sep-23	2590	0.00187

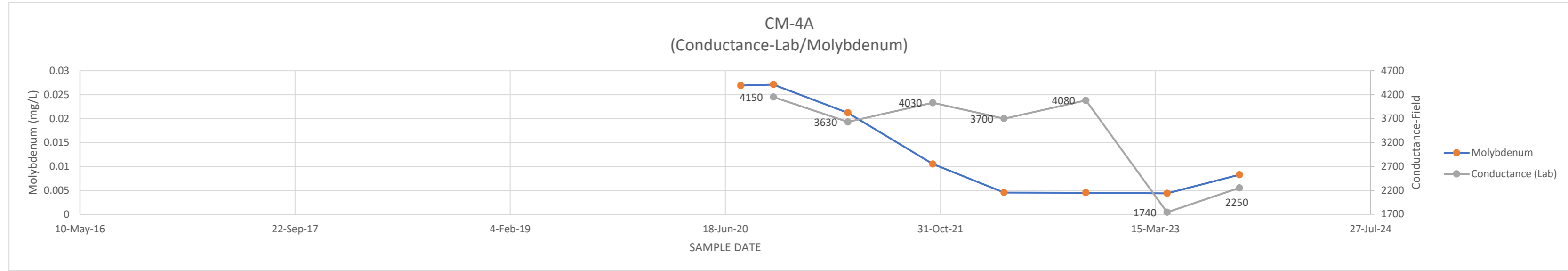


CM-3B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20	2540	0.0318
2-Apr-21	2930	0.0353
11-Oct-21		
1-Apr-22	4030	0.0174
7-Oct-22	4640	0.00819
19-Apr-23	4330	0.016
29-Sep-23	4340	0.0049

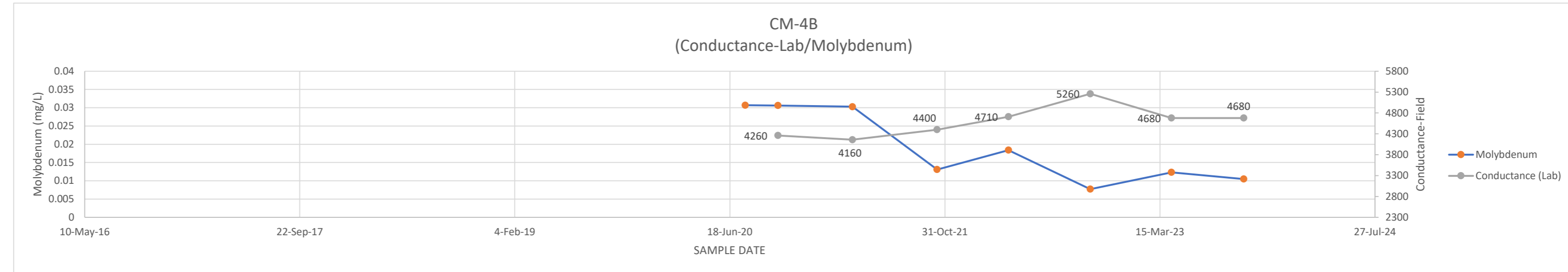


ATTACHMENT G-3B
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

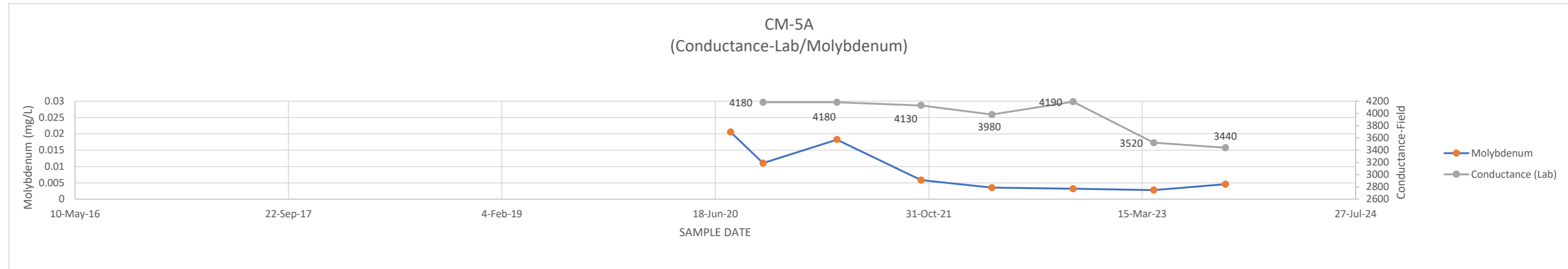
CM-4A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0269
8-Oct-20	4150	0.0271
30-Mar-21	3630	0.0212
13-Oct-21	4030	0.0105
28-Mar-22	3700	0.00455
4-Oct-22	4080	0.00449
11-Apr-23	1740	0.00436
26-Sep-23	2250	0.00825



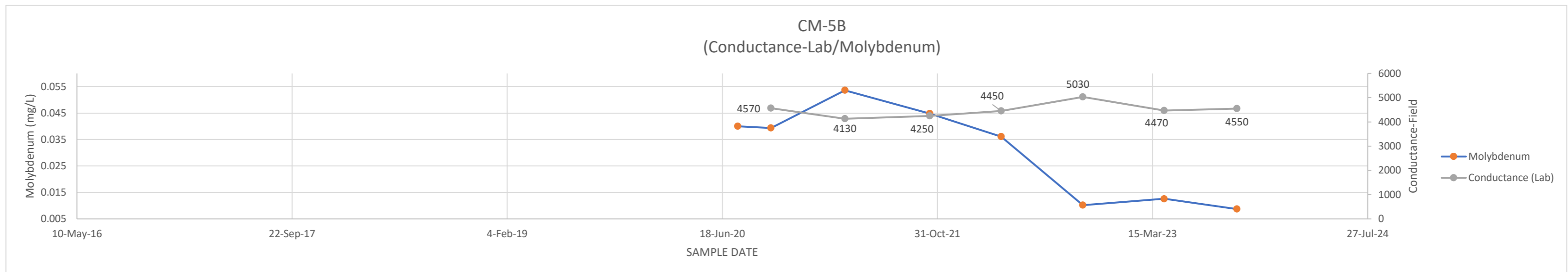
CM-4B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0307
8-Oct-20	4260	0.0306
30-Mar-21	4160	0.0303
13-Oct-21	4400	0.0131
28-Mar-22	4710	0.0184
4-Oct-22	5260	0.00771
11-Apr-23	4680	0.0123
26-Sep-23	4680	0.0105



CM-5A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0205
8-Oct-20	4180	0.011
30-Mar-21	4180	0.0182
13-Oct-21	4130	0.0058
28-Mar-22	3980	0.00351
4-Oct-22	4190	0.00317
11-Apr-23	3520	0.00276
26-Sep-23	3440	0.00455



CM-5B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.04
9-Oct-20	4570	0.0394
30-Mar-21	4130	0.0536
13-Oct-21	4250	0.0448
28-Mar-22	4450	0.0361
4-Oct-22	5030	0.0102
11-Apr-23	4470	0.0126
27-Sep-23	4550	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

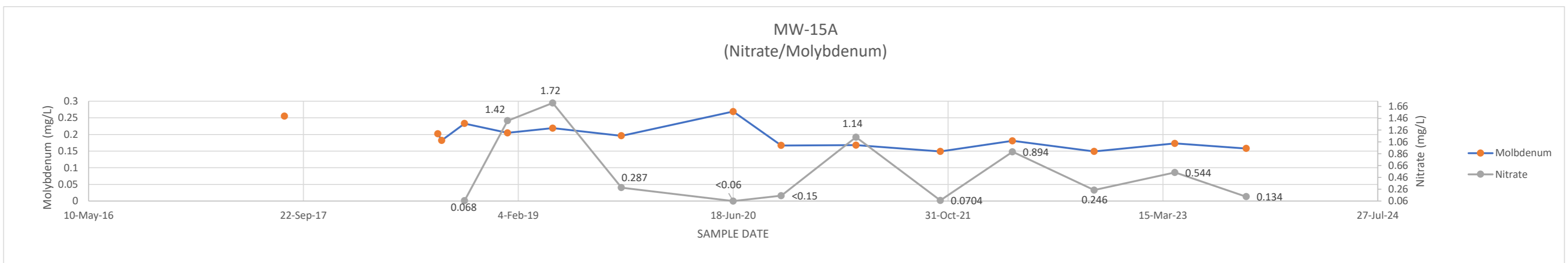
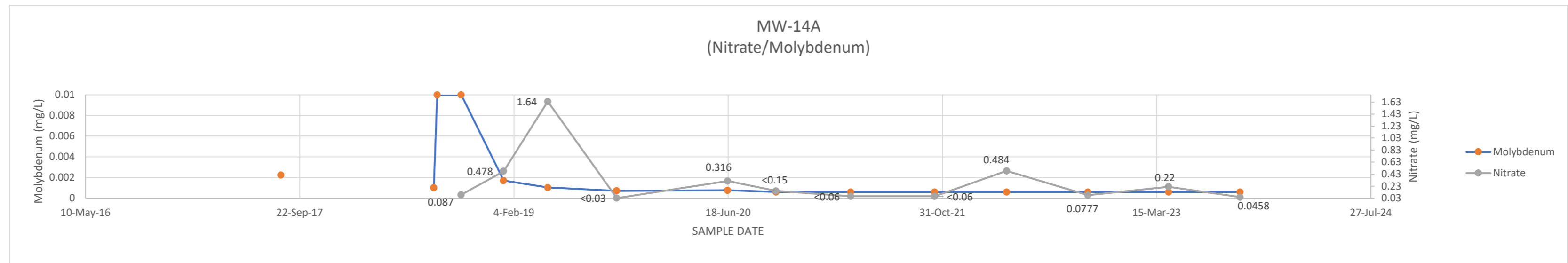
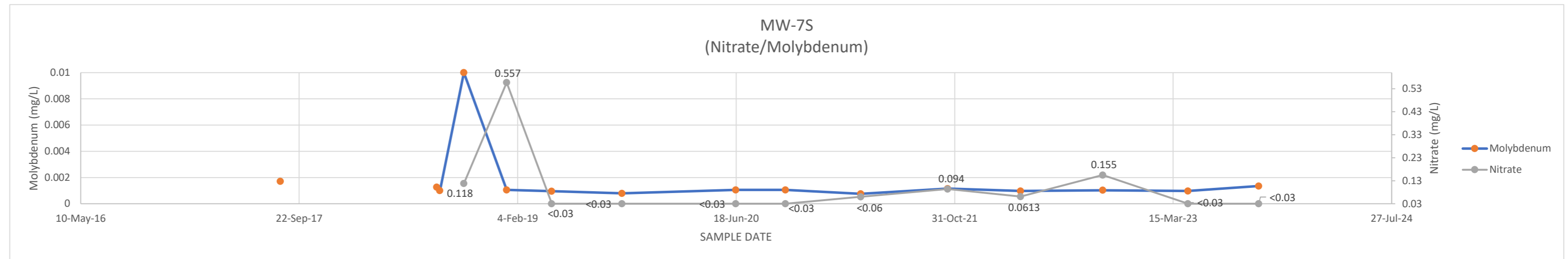
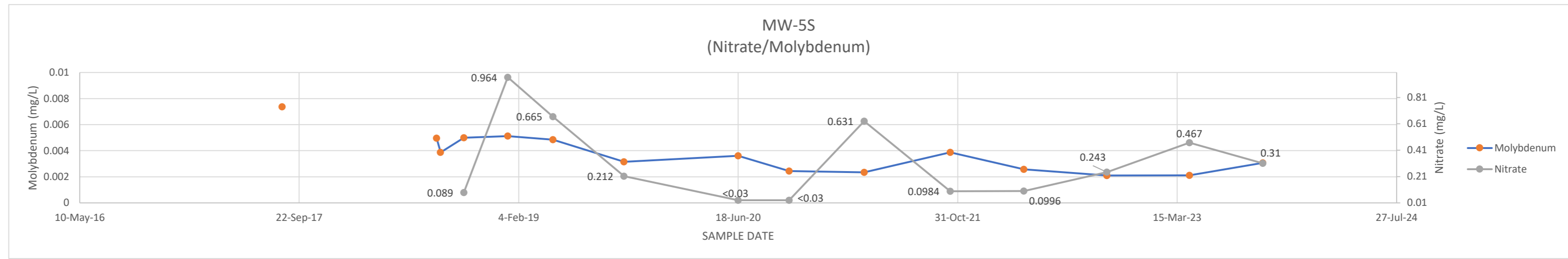
MW-5S	NITRATE	MOLYBDENUM
DATE		
14-Aug-17		0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18	0.089	0.005
10-Jan-19	0.964	0.00512
23-Apr-19	0.665	0.00485
2-Oct-19	0.212	0.00315
18-Jun-20	0.03	0.00361
12-Oct-20	0.03	0.00244
1-Apr-21	0.631	0.00234
14-Oct-21	0.0984	0.00387
31-Mar-22	0.0996	0.00257
6-Oct-22	0.243	0.0021
12-Apr-23	0.467	0.00211
26-Sep-23	0.31	0.00307

Value denoted in red from June 2022 resample

MW-7S	NITRATE	MOLYBDENUM
DATE		
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18	0.118	0.01
10-Jan-19	0.557	0.00105
23-Apr-19	0.03	0.000952
1-Oct-19	0.03	0.000798
17-Jun-20	0.03	0.00105
9-Oct-20	0.03	0.00106
30-Mar-21	0.06	0.000755
15-Oct-21	0.094	0.00115
31-Mar-22	0.0613	0.000973
5-Oct-22	0.155	0.00103
18-Apr-23	0.03	0.000973
27-Sep-23	0.03	0.00135

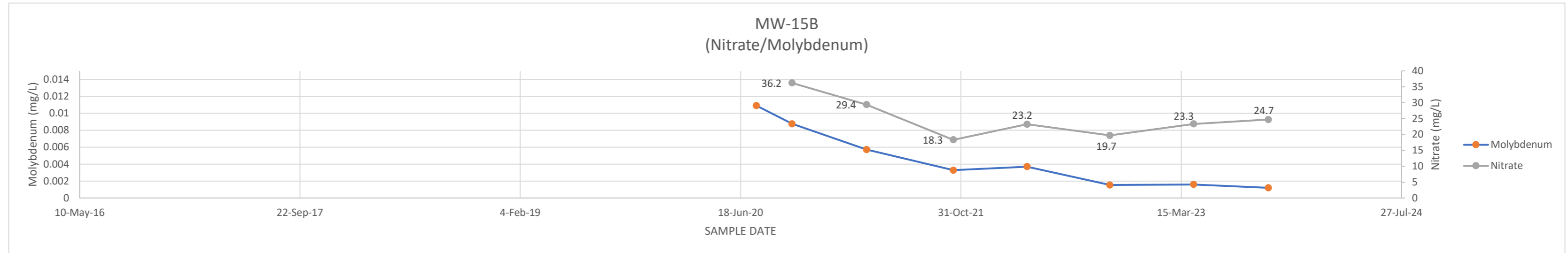
MW-14A	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18	0.087	0.01
11-Jan-19	0.478	0.0017
24-Apr-19	1.64	0.00104
2-Oct-19	0.03	0.000709
17-Jun-20	0.316	0.00076
8-Oct-20	0.15	0.0006
31-Mar-21	0.06	0.0006
13-Oct-21	0.06	0.0006
30-Mar-22	0.484	0.0006
6-Oct-22	0.0777	0.0006
12-Apr-23	0.22	0.0006
26-Sep-23	0.0458	0.0006

MW-15A	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18	0.068	0.233
10-Jan-19	1.42	0.205
25-Apr-19	1.72	0.219
2-Oct-19	0.287	0.196
18-Jun-20	0.06	0.269
8-Oct-20	0.15	0.167
31-Mar-21	1.14	0.168
13-Oct-21	0.0704	0.149
30-Mar-22	0.894	0.181
6-Oct-22	0.246	0.149
12-Apr-23	0.544	0.173
25-Sep-23	0.134	0.158

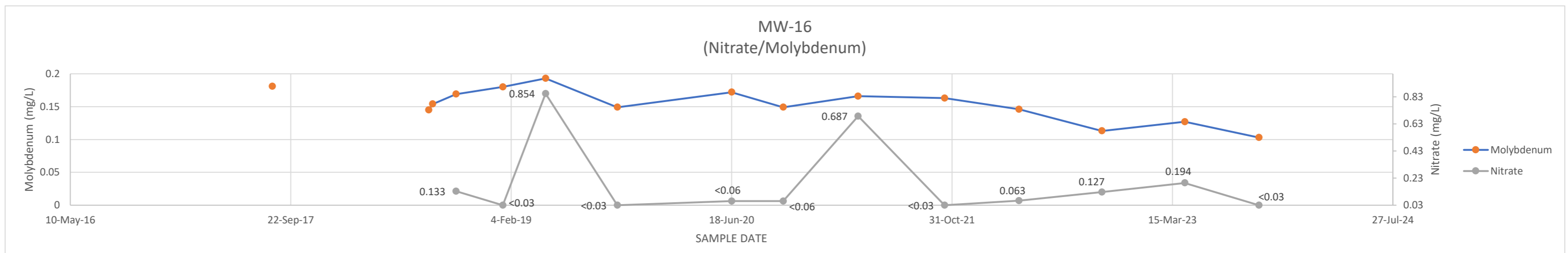


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

MW-15B		
DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0109
13-Oct-20	36.2	0.00876
31-Mar-21	29.4	0.00571
14-Oct-21	18.3	0.00328
30-Mar-22	23.2	0.0037
4-Oct-22	19.7	0.00153
12-Apr-23	23.3	0.0016
29-Sep-23	24.7	0.0012

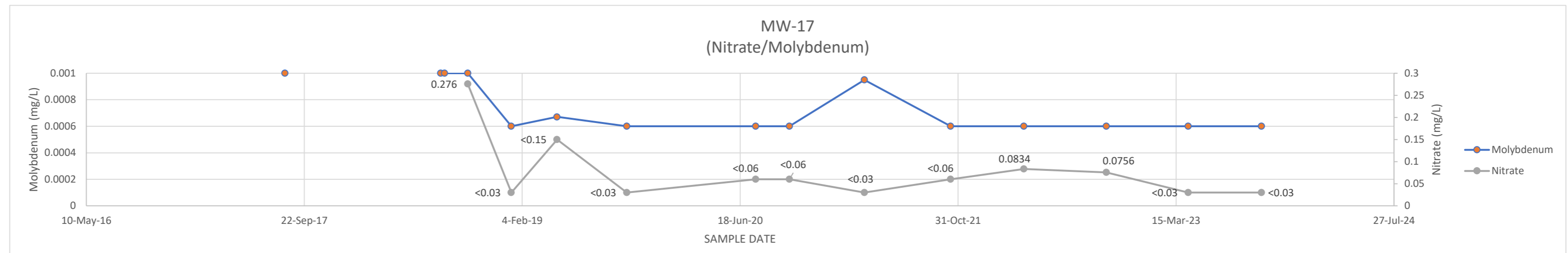


MW-16		
DATE	NITRATE	MOLYBDENUM
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18	0.133	0.169
16-Jan-19	0.03	0.18
23-Apr-19	0.854	0.193
3-Oct-19	0.03	0.149
18-Jun-20	0.06	0.172
13-Oct-20	0.06	0.149
1-Apr-21	0.687	0.166
14-Oct-21	0.03	0.163
1-Apr-22	0.063	0.146
6-Oct-22	0.127	0.113
12-Apr-23	0.194	0.127
27-Sep-23	0.03	0.103



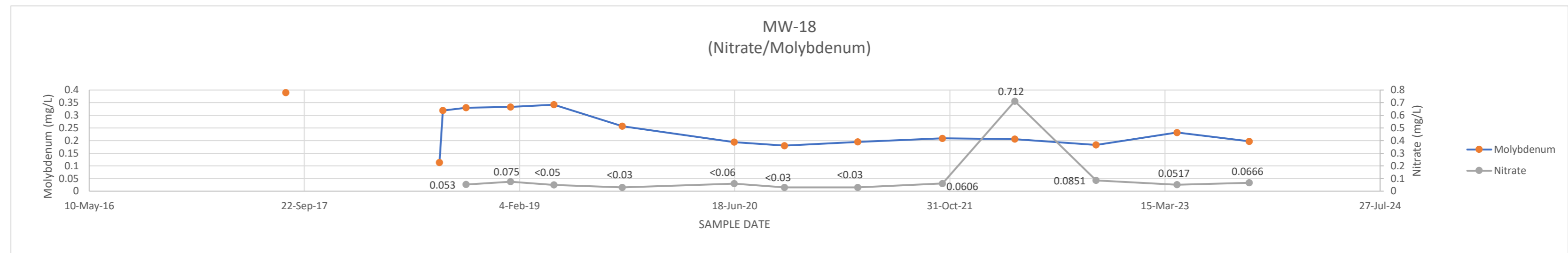
Value denoted in red from June 2022 resample

MW-17		
DATE	NITRATE	MOLYBDENUM
9-Aug-17		0.001
24-May-18		
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18	0.276	0.001
10-Jan-19	0.03	0.0006
25-Apr-19	0.15	0.000671
2-Oct-19	0.03	0.0006
24-Jul-20	0.06	0.0006
9-Oct-20	0.06	0.0006
30-Mar-21	0.03	0.00095
14-Oct-21	0.06	0.0006
31-Mar-22	0.0834	0.0006
6-Oct-22	0.0756	0.0006
12-Apr-23	0.03	0.0006
27-Sep-23	0.03	0.0006



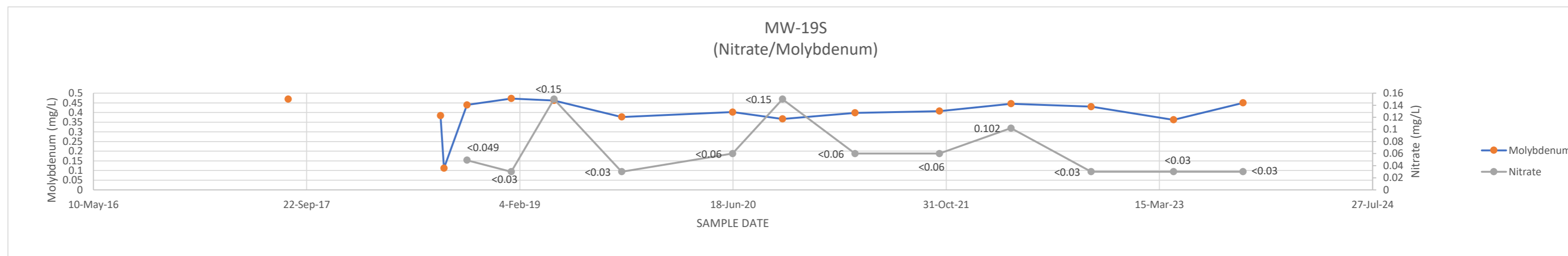
Value denoted in red from June 2022 resample

MW-18		
DATE	NITRATE	MOLYBDENUM
10-Aug-17		0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18	0.053	0.33
14-Jan-19	0.075	0.333
25-Apr-19	0.05	0.342
1-Oct-19	0.03	0.257
17-Jun-20	0.06	0.194
12-Oct-20	0.03	0.18
31-Mar-21	0.03	0.195
14-Oct-21	0.0606	0.209
31-Mar-22	0.712	0.206
6-Oct-22	0.0851	0.183
12-Apr-23	0.0517	0.232
27-Sep-23	0.0666	0.197

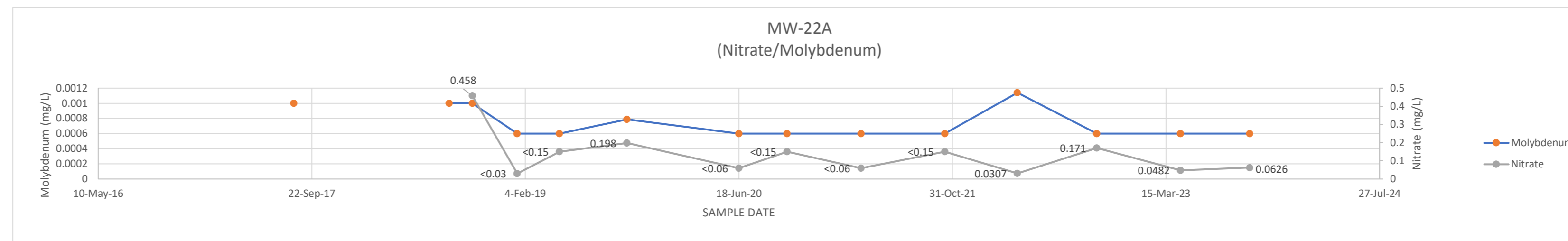


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

MW-19S	NITRATE	MOLYBDENUM
DATE		
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18	0.049	0.439
15-Jan-19	0.03	0.472
25-Apr-19	0.15	0.462
1-Oct-19	0.03	0.377
17-Jun-20	0.06	0.402
12-Oct-20	0.15	0.367
31-Mar-21	0.06	0.398
15-Oct-21	0.06	0.407
1-Apr-22	0.102	0.445
6-Oct-22	0.03	0.43
17-Apr-23	0.03	0.362
27-Sep-23	0.03	0.45

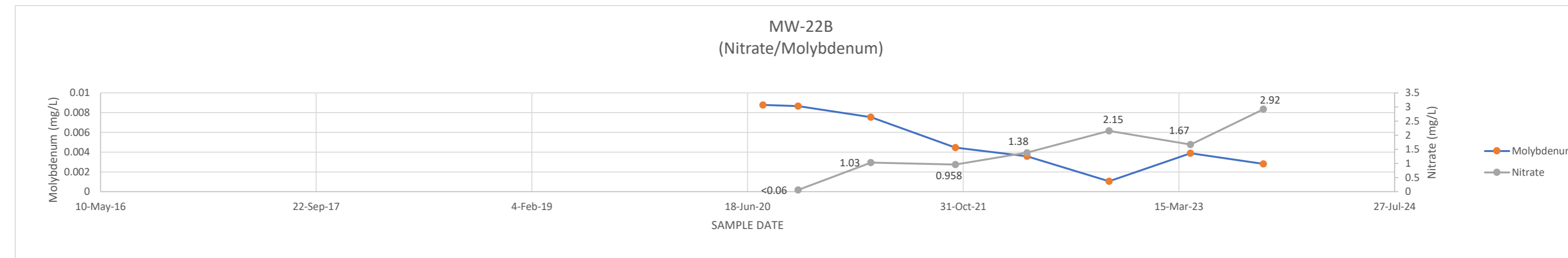


MW-22A	NITRATE	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18	0.458	0.001
16-Jan-19	0.03	0.0006
25-Apr-19	0.15	0.0006
30-Sep-19	0.198	0.000787
18-Jun-20	0.06	0.0006
9-Oct-20	0.15	0.0006
31-Mar-21	0.06	0.0006
13-Oct-21	0.15	0.0006
1-Apr-22	0.0307	0.00114
4-Oct-22	0.171	0.0006
18-Apr-23	0.0482	0.0006
27-Sep-23	0.0626	0.0006

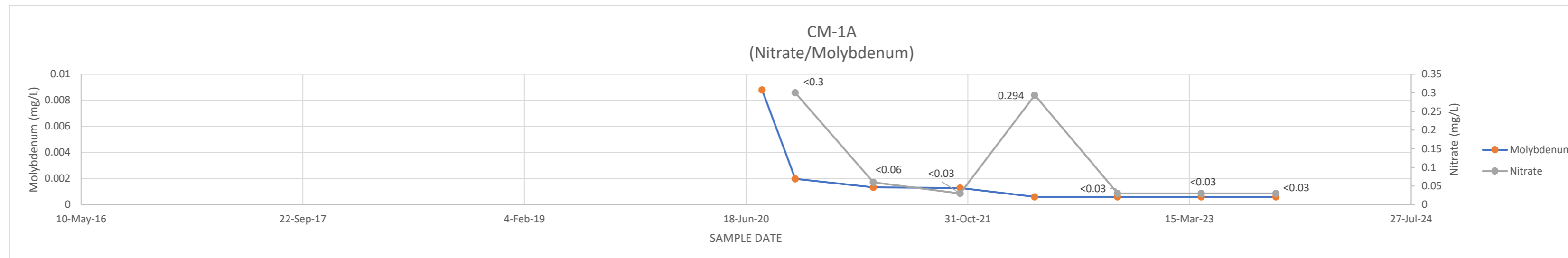


Value denoted in red from June 2022 resample

MW-22B	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00878
13-Oct-20	0.06	0.00866
31-Mar-21	1.03	0.00753
13-Oct-21	0.958	0.00446
28-Mar-22	1.38	0.00357
4-Oct-22	2.15	0.00105
11-Apr-23	1.67	0.00389
27-Sep-23	2.92	0.0028

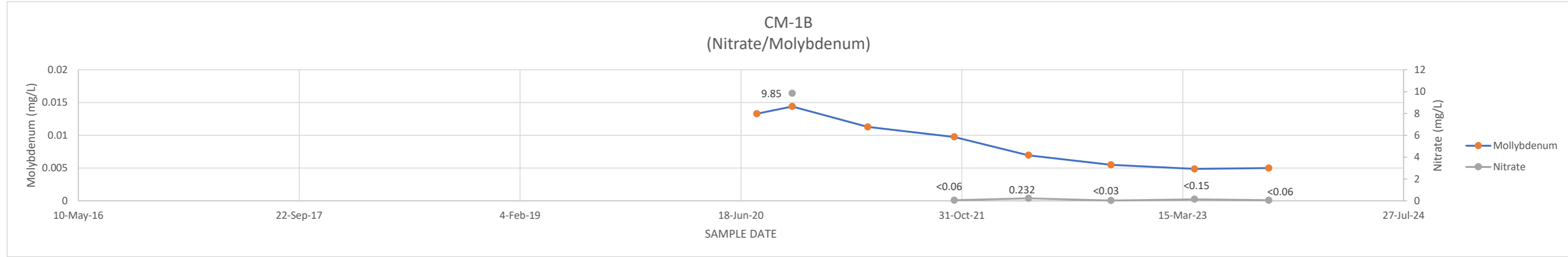


CM-1A	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20	0.3	0.00198
1-Apr-21	0.06	0.00132
14-Oct-21	0.03	0.00127
31-Mar-22	0.294	0.0006
4-Oct-22	0.03	0.0006
11-Apr-23	0.03	0.0006
26-Sep-23	0.03	0.0006

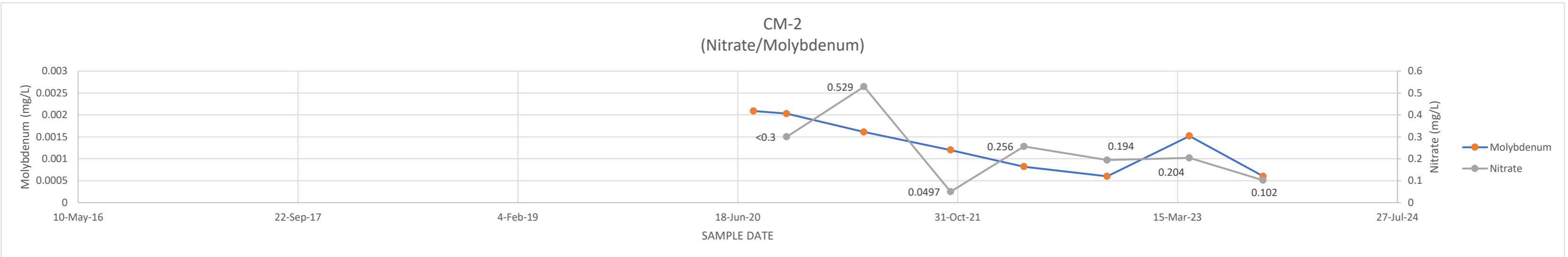


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

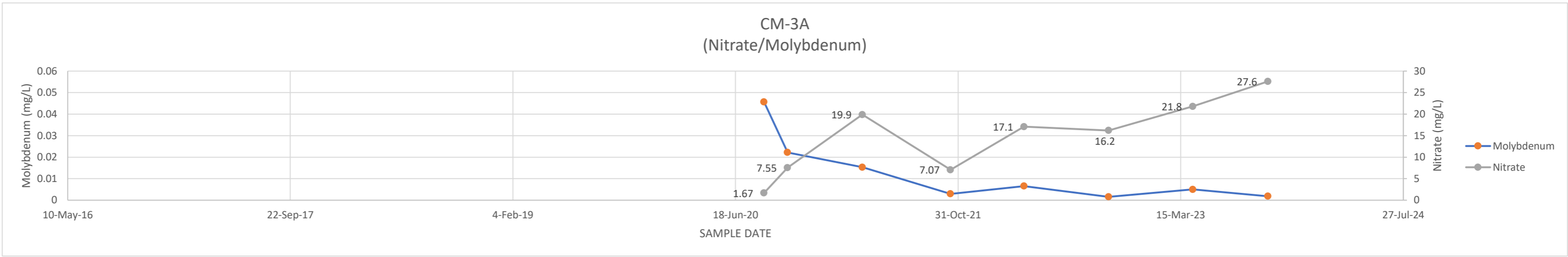
CM-1B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20	9.85	0.0144
1-Apr-21		0.0113
14-Oct-21	0.06	0.00976
31-Mar-22	0.232	0.00696
4-Oct-22	0.03	0.00551
11-Apr-23	0.15	0.00488
26-Sep-23	0.06	0.005



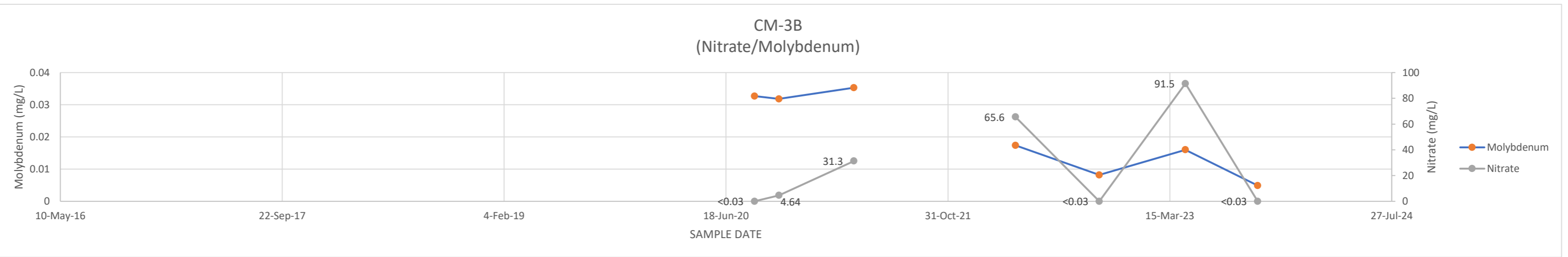
CM-2 DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20	0.3	0.00203
1-Apr-21	0.529	0.00161
15-Oct-21	0.0497	0.0012
31-Mar-22	0.256	0.00082
6-Oct-22	0.194	0.0006
11-Apr-23	0.204	0.00152
26-Sep-23	0.102	0.0006



CM-3A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1.67	0.0457
13-Oct-20	7.55	0.0222
30-Mar-21	19.9	0.0153
14-Oct-21	7.07	0.00297
28-Mar-22	17.1	0.00656
4-Oct-22	16.2	0.00155
11-Apr-23	21.8	0.00503
27-Sep-23	27.6	0.00187

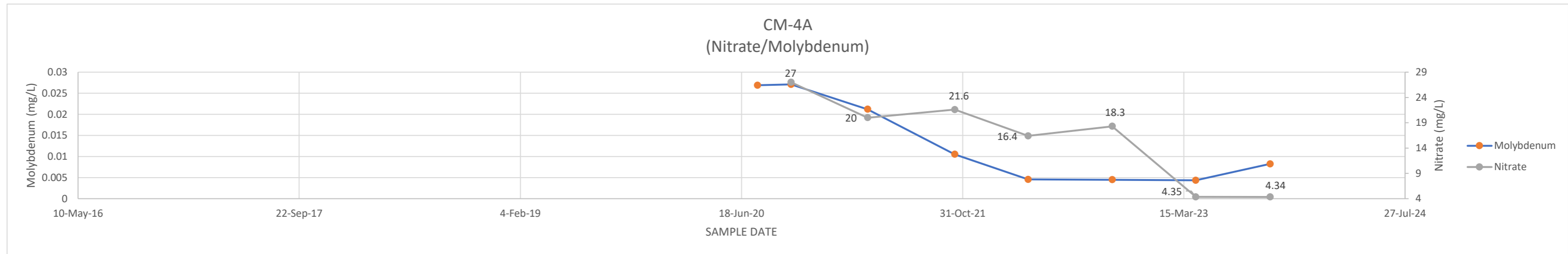


CM-3B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.03	0.0327
15-Oct-20	4.64	0.0318
2-Apr-21	31.3	0.0353
11-Oct-21		
1-Apr-22	65.6	0.0174
7-Oct-22	0.03	0.00819
19-Apr-23	91.5	0.016
29-Sep-23	0.03	0.0049

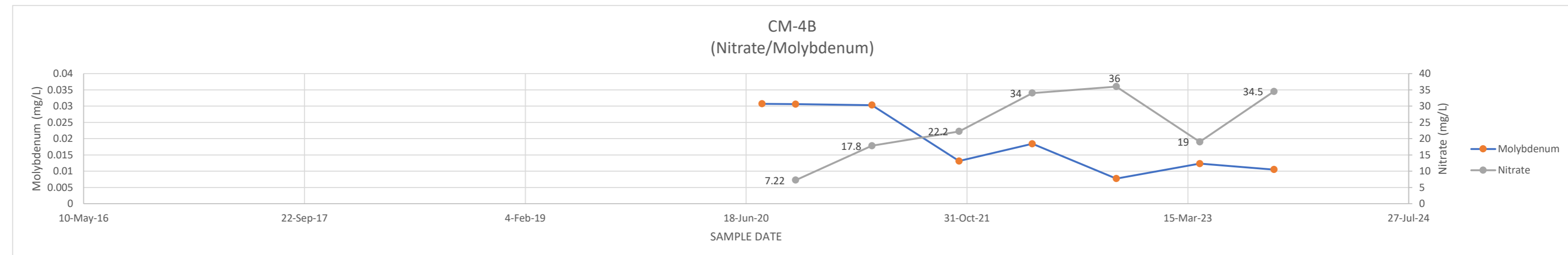


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

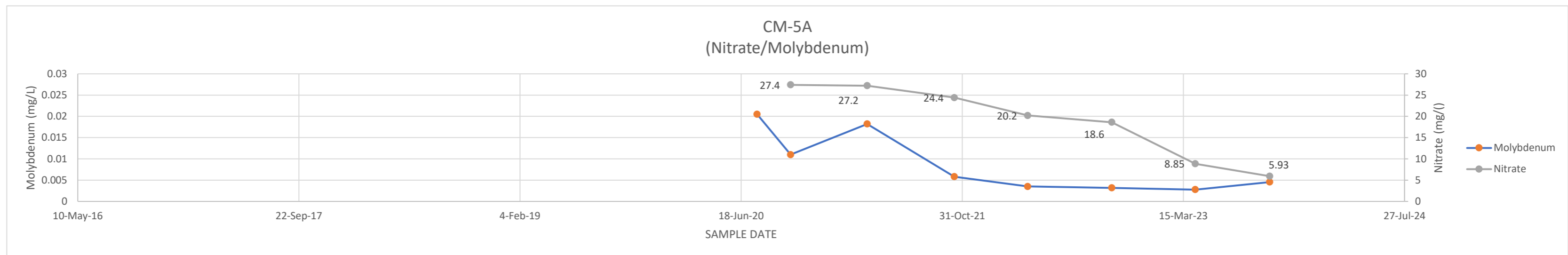
CM-4A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0269
8-Oct-20	27	0.0271
30-Mar-21	20	0.0212
13-Oct-21	21.6	0.0105
28-Mar-22	16.4	0.00455
4-Oct-22	18.3	0.00449
11-Apr-23	4.35	0.00436
26-Sep-23	4.34	0.00825



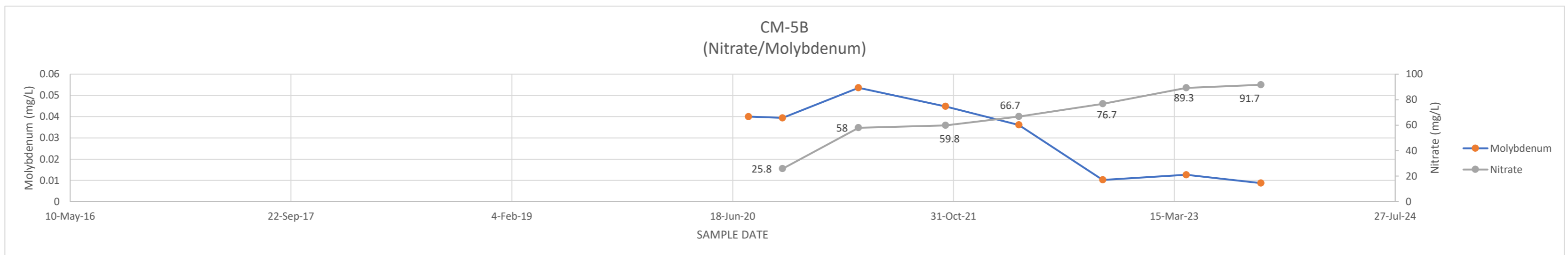
CM-4B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0307
8-Oct-20	7.22	0.0306
30-Mar-21	17.8	0.0303
13-Oct-21	22.2	0.0131
28-Mar-22	34	0.0184
4-Oct-22	36	0.00771
11-Apr-23	19	0.0123
26-Sep-23	34.5	0.0105



CM-5A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0205
8-Oct-20	27.4	0.011
30-Mar-21	27.2	0.0182
13-Oct-21	24.4	0.0058
28-Mar-22	20.2	0.00351
4-Oct-22	18.6	0.00317
11-Apr-23	8.85	0.00276
26-Sep-23	5.93	0.00455



CM-5B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.04
9-Oct-20	25.8	0.0394
30-Mar-21	58	0.0536
13-Oct-21	59.8	0.0448
28-Mar-22	66.7	0.0361
4-Oct-22	76.7	0.0102
11-Apr-23	89.3	0.0126
27-Sep-23	91.7	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

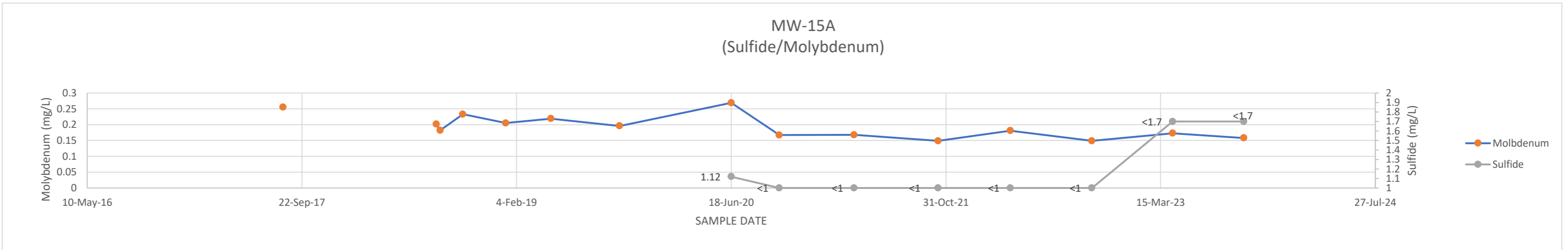
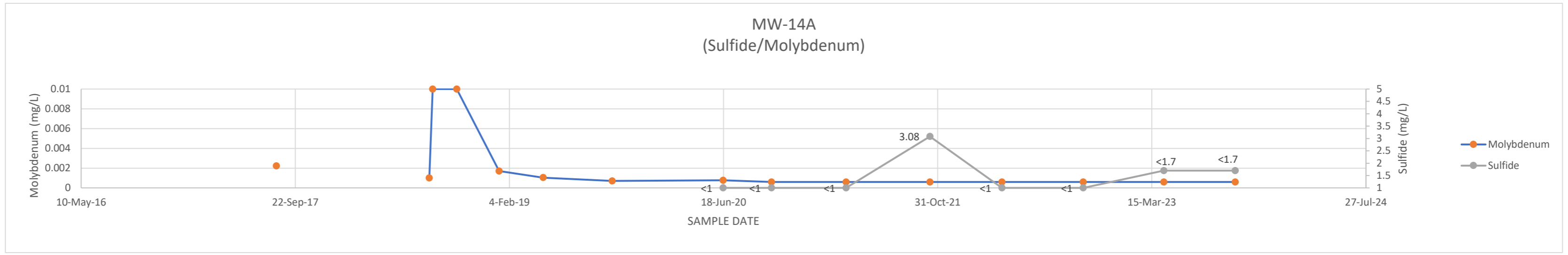
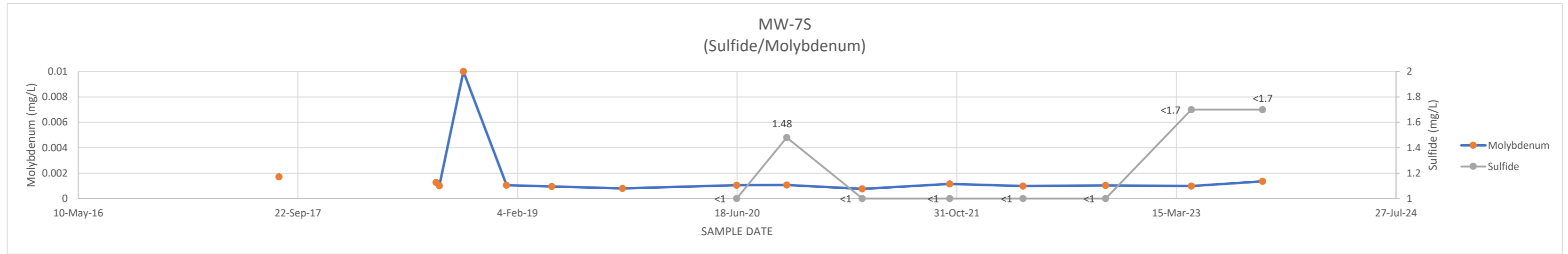
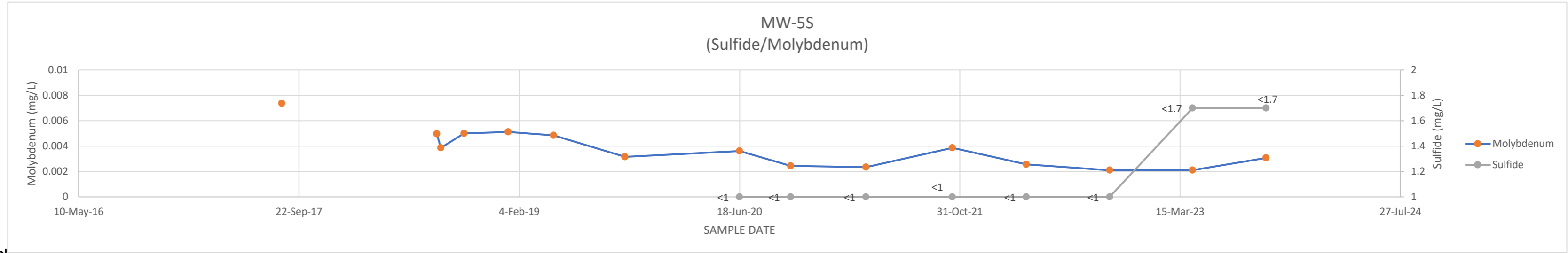
MW-5S	SULFIDE	MOLYBDENUM
DATE		
14-Aug-17		0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18		0.005
10-Jan-19		0.00512
23-Apr-19		0.00485
2-Oct-19		0.00315
18-Jun-20	1	0.00361
12-Oct-20	1	0.00244
1-Apr-21	1	0.00234
14-Oct-21	1	0.00387
31-Mar-22	1	0.00257
6-Oct-22	1	0.0021
12-Apr-23	1.7	0.00211
26-Sep-23	1.7	0.00307

Value denoted in red from June 2022 resample

MW-7S	SULFIDE	MOLYBDENUM
DATE		
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18		0.01
10-Jan-19		0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20	1	0.00105
9-Oct-20	1.48	0.00106
30-Mar-21	1	0.000755
15-Oct-21	1	0.00115
31-Mar-22	1	0.000973
5-Oct-22	1	0.00103
18-Apr-23	1.7	0.000973
27-Sep-23	1.7	0.00135

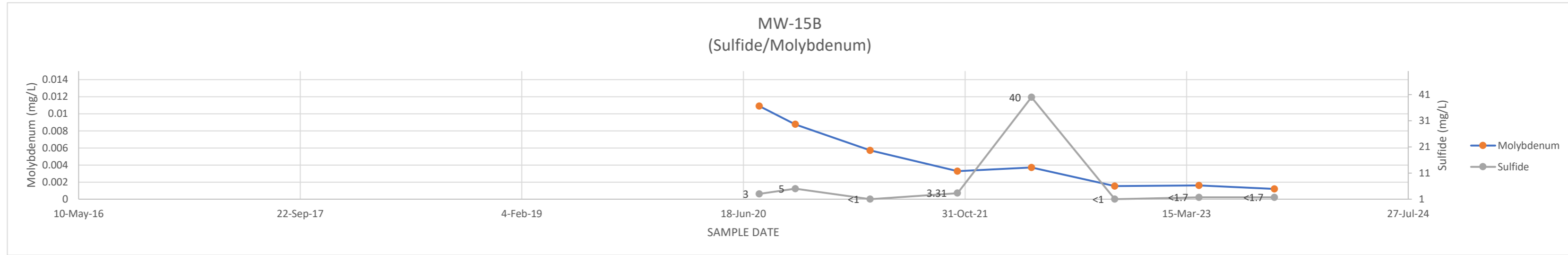
MW-14A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18		0.01
11-Jan-19		0.0017
24-Apr-19		0.00104
2-Oct-19		0.000709
17-Jun-20	1	0.00076
8-Oct-20	1	0.0006
31-Mar-21	1	0.0006
13-Oct-21	3.08	0.0006
30-Mar-22	1	0.0006
6-Oct-22	1	0.0006
12-Apr-23	1.7	0.0006
26-Sep-23	1.7	0.0006

MW-15A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18		0.233
10-Jan-19		0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20	1.12	0.269
8-Oct-20	1	0.167
31-Mar-21	1	0.168
13-Oct-21	1	0.149
30-Mar-22	1	0.181
6-Oct-22	1	0.149
12-Apr-23	1.7	0.173
25-Sep-23	1.7	0.158

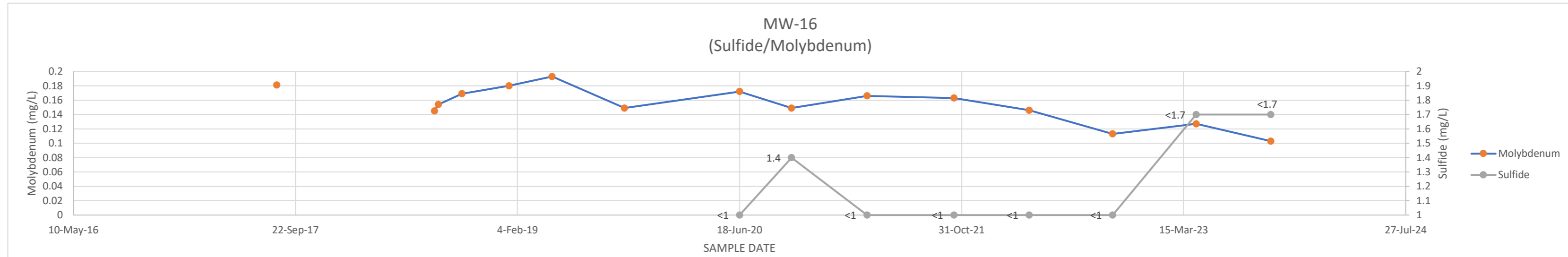


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

MW-15B	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	3	0.0109	
13-Oct-20	5	0.00876	
31-Mar-21	1	0.00571	
14-Oct-21	3.31	0.00328	
30-Mar-22	40	0.0037	
4-Oct-22	1	0.00153	
12-Apr-23	1.7	0.0016	
29-Sep-23	1.7	0.0012	

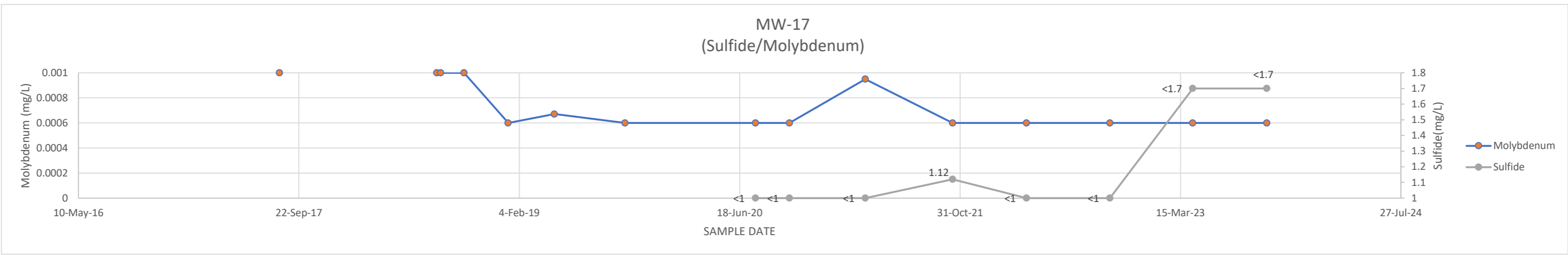


MW-16	DATE	SULFIDE	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18			0.169
16-Jan-19			0.18
23-Apr-19			0.193
3-Oct-19			0.149
18-Jun-20	1	0.172	
13-Oct-20	1.4	0.149	
1-Apr-21	1	0.166	
14-Oct-21	1	0.163	
1-Apr-22	1	0.146	
6-Oct-22	1	0.113	
12-Apr-23	1.7	0.127	
27-Sep-23	1.7	0.103	



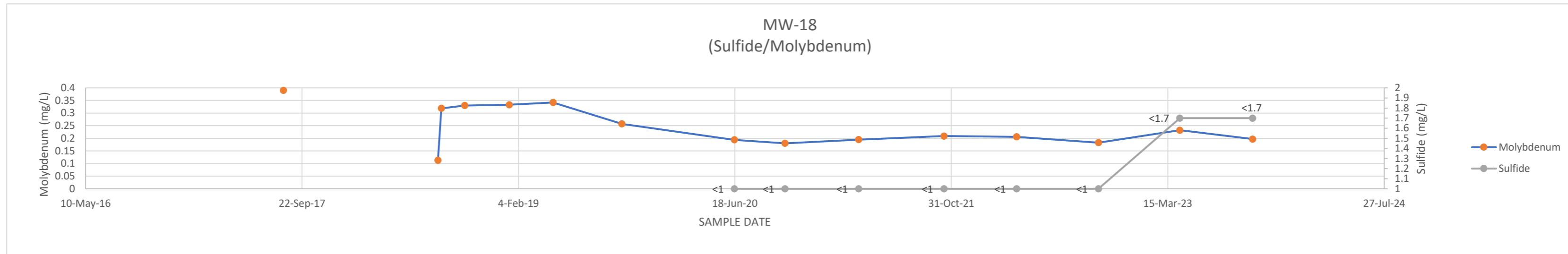
Value denoted in red from June 2022 resample

MW-17	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			0.001
24-May-18			
1-Aug-18			0.001
10-Aug-18			0.001
2-Oct-18			0.001
10-Jan-19			0.0006
25-Apr-19			0.000671
2-Oct-19			0.0006
24-Jul-20	1	0.0006	
9-Oct-20	1	0.0006	
30-Mar-21	1	0.00095	
14-Oct-21	1.12	0.0006	
31-Mar-22	1	0.0006	
6-Oct-22	1	0.0006	
12-Apr-23	1.7	0.0006	
27-Sep-23	1.7	0.0006	



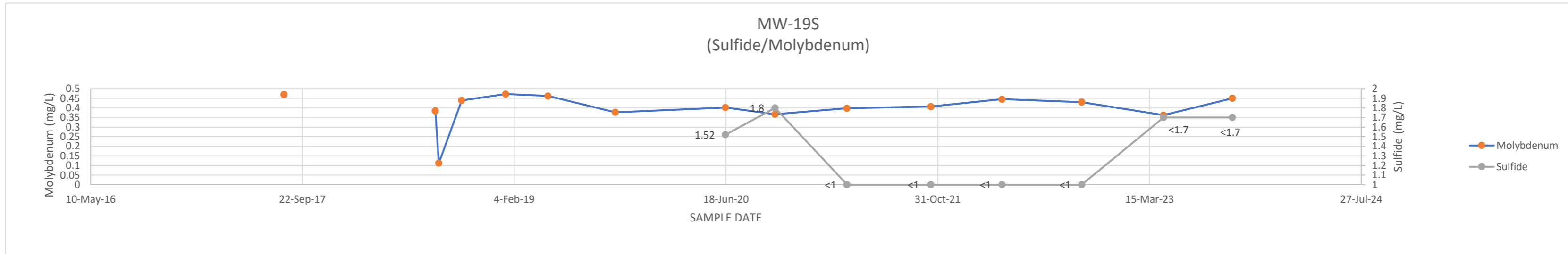
Value denoted in red from June 2022 resample

MW-18	DATE	SULFIDE	MOLYBDENUM
10-Aug-17			0.39
18-May-18			
2-Aug-18			0.113
10-Aug-18			0.319
3-Oct-18			0.33
14-Jan-19			0.333
25-Apr-19			0.342
1-Oct-19			0.257
17-Jun-20	1	0.194	
12-Oct-20	1	0.18	
31-Mar-21	1	0.195	
14-Oct-21	1	0.209	
31-Mar-22	1	0.206	
6-Oct-22	1	0.183	
12-Apr-23	1.7	0.232	
27-Sep-23	1.7	0.197	

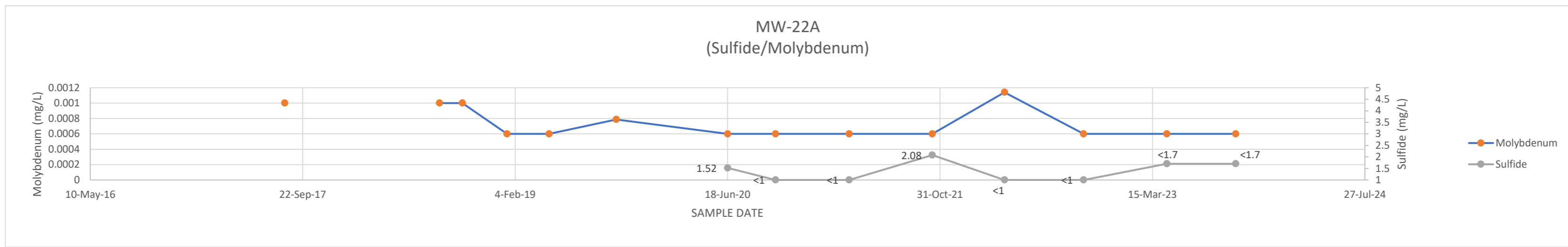


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

MW-19S	DATE	SULFIDE	MOLYBDENUM
10-Aug-17			0.469
18-May-18			
2-Aug-18			0.384
10-Aug-18			0.112
3-Oct-18			0.439
15-Jan-19			0.472
25-Apr-19			0.462
1-Oct-19			0.377
17-Jun-20	1.52		0.402
12-Oct-20	1.8		0.367
31-Mar-21	1		0.398
15-Oct-21	1		0.407
1-Apr-22	1		0.445
6-Oct-22	1		0.43
17-Apr-23	1.7		0.362
27-Sep-23	1.7		0.45

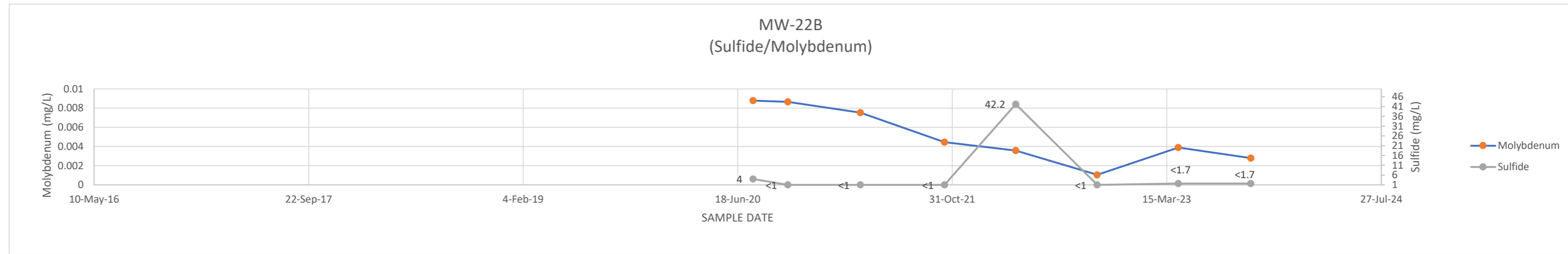


MW-22A	DATE	SULFIDE	MOLYBDENUM
11-Aug-17			0.001
22-May-18			
10-Aug-18			0.001
3-Oct-18			0.001
16-Jan-19			0.0006
25-Apr-19			0.0006
30-Sep-19			0.000787
18-Jun-20	1.52		0.0006
9-Oct-20	1		0.0006
31-Mar-21	1		0.0006
13-Oct-21	2.08		0.0006
1-Apr-22	1		0.00114
4-Oct-22	1		0.0006
18-Apr-23	1.7		0.0006
27-Sep-23	1.7		0.0006

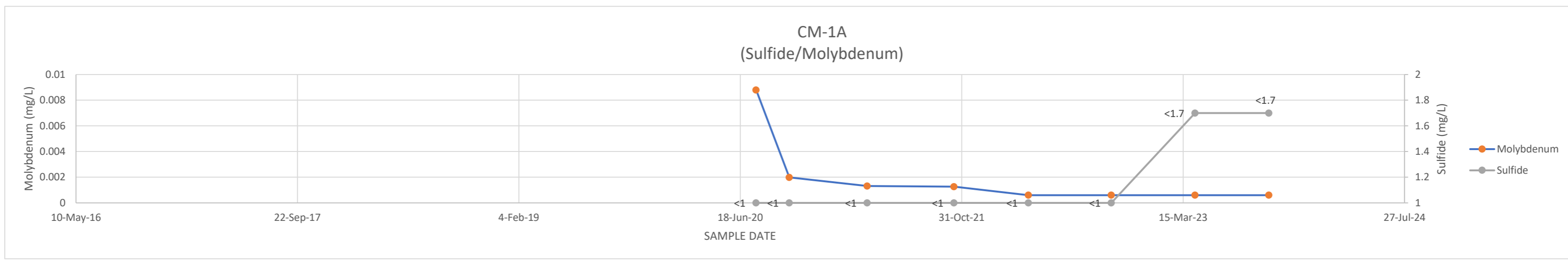


Value denoted in red from June 2022 resample

MW-22B	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	4		0.00878
13-Oct-20	1		0.00866
31-Mar-21	1		0.00753
13-Oct-21	1		0.00446
28-Mar-22	42.2		0.00357
4-Oct-22	1		0.00105
11-Apr-23	1.7		0.00389
27-Sep-23	1.7		0.0028

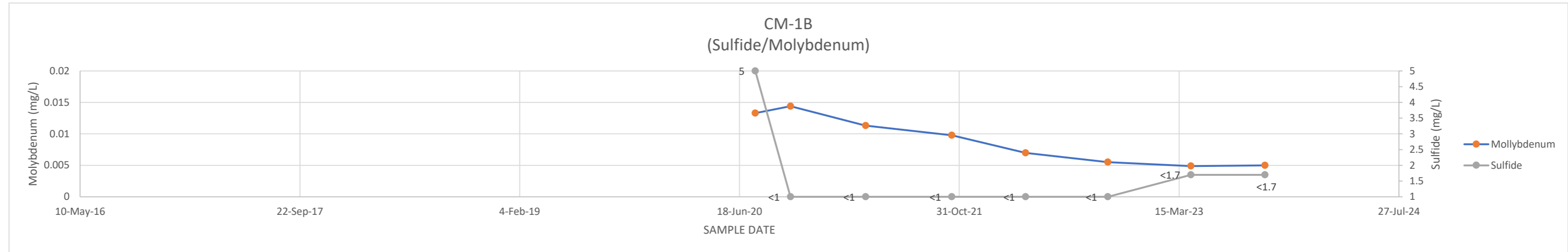


CM-1A	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	1		0.0088
7-Oct-20	1		0.00198
1-Apr-21	1		0.00132
14-Oct-21	1		0.00127
31-Mar-22	1		0.0006
4-Oct-22	1		0.0006
11-Apr-23	1.7		0.0006
25-Sep-23	1.7		0.0006

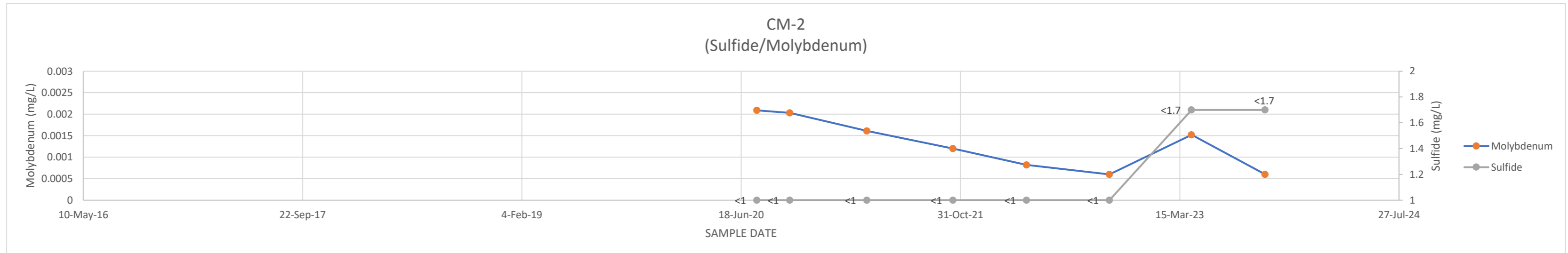


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

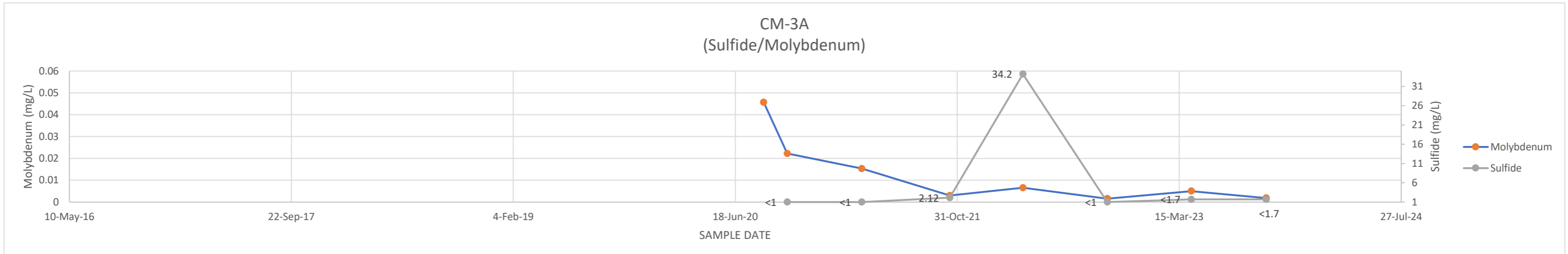
CM-1B DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	5	0.0133
12-Oct-20	1	0.0144
1-Apr-21	1	0.0113
14-Oct-21	1	0.00976
31-Mar-22	1	0.00696
4-Oct-22	1	0.00551
11-Apr-23	1.7	0.00488
26-Sep-23	1.7	0.005



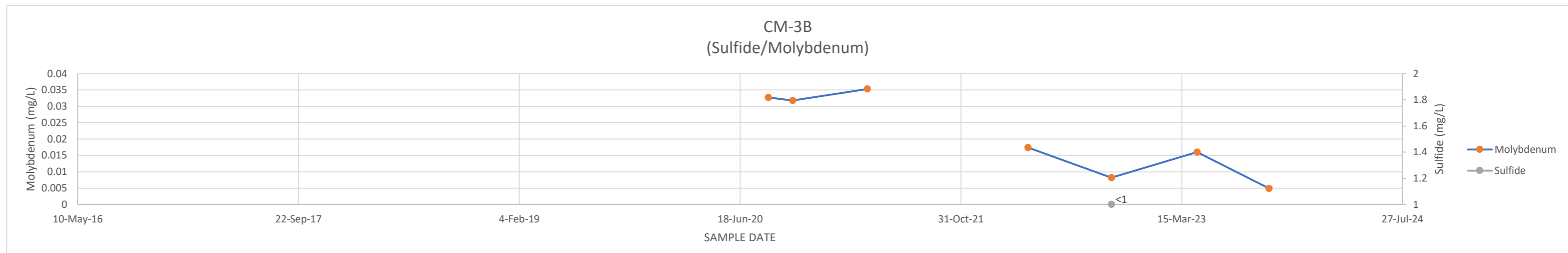
CM-2 DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1	0.00209
7-Oct-20	1	0.00203
1-Apr-21	1	0.00161
14-Oct-21	1	0.0012
31-Mar-22	1	0.00082
6-Oct-22	1	0.0006
11-Apr-23	1.7	0.00152
26-Sep-23	1.7	0.0006



CM-3A DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20	1	0.0222
30-Mar-21	1	0.0153
14-Oct-21	2.12	0.00297
28-Mar-22	34.2	0.00656
4-Oct-22	1	0.00155
11-Apr-23	1.7	0.00503
27-Sep-23	1.7	0.00187

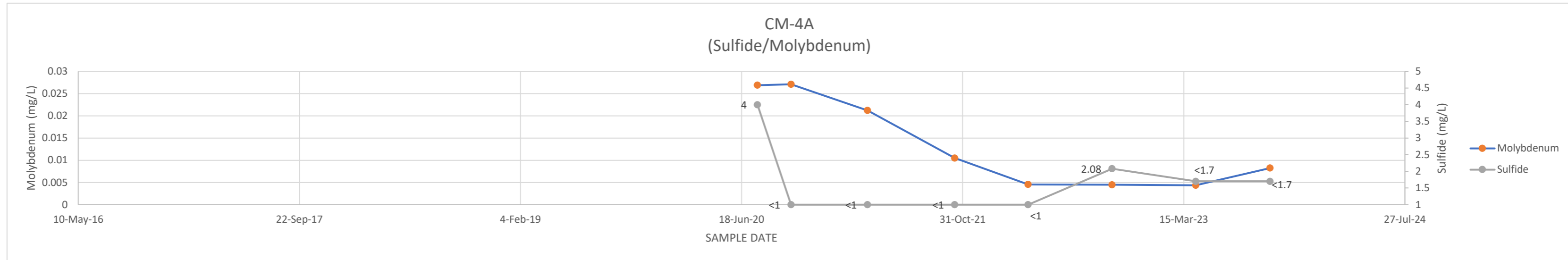


CM-3B DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22		0.0174
7-Oct-22	1	0.00819
19-Apr-23		0.016
29-Sep-23		0.0049

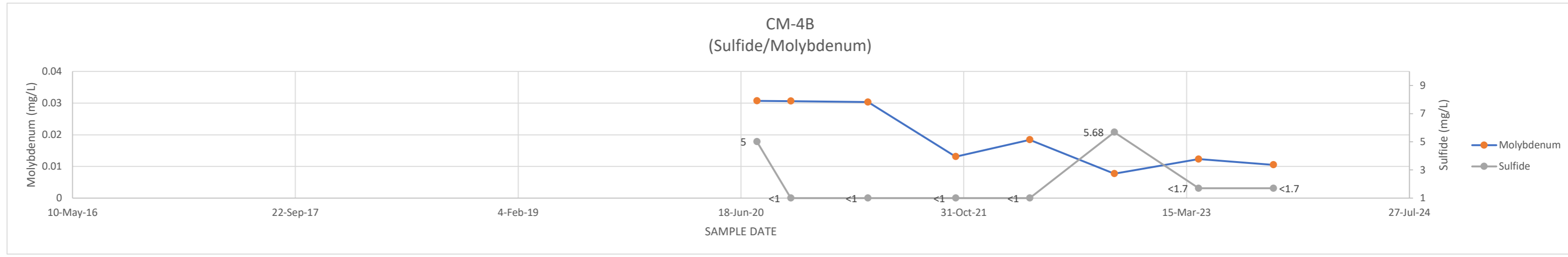


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

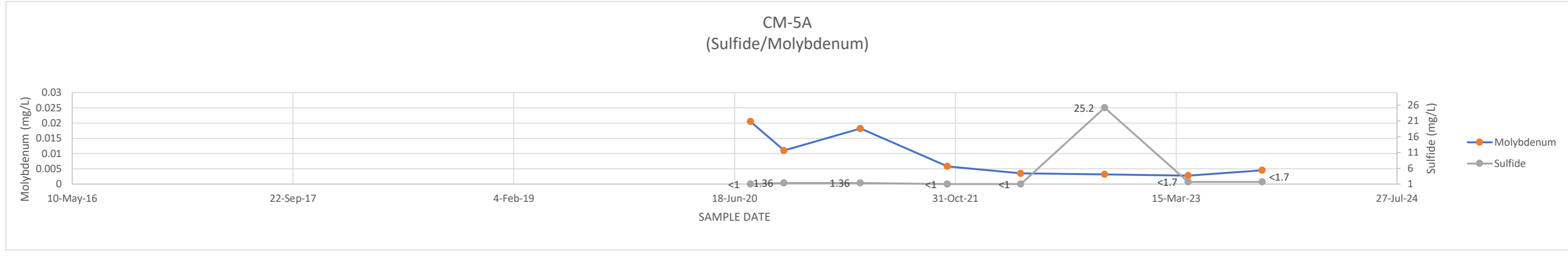
CM-4A	DATE	SULFLIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	4	0.0269	
8-Oct-20	1	0.0271	
30-Mar-21	1	0.0212	
13-Oct-21	1	0.0105	
28-Mar-22	1	0.00455	
4-Oct-22	2.08	0.00449	
11-Apr-23	1.7	0.00436	
26-Sep-23	1.7	0.00825	



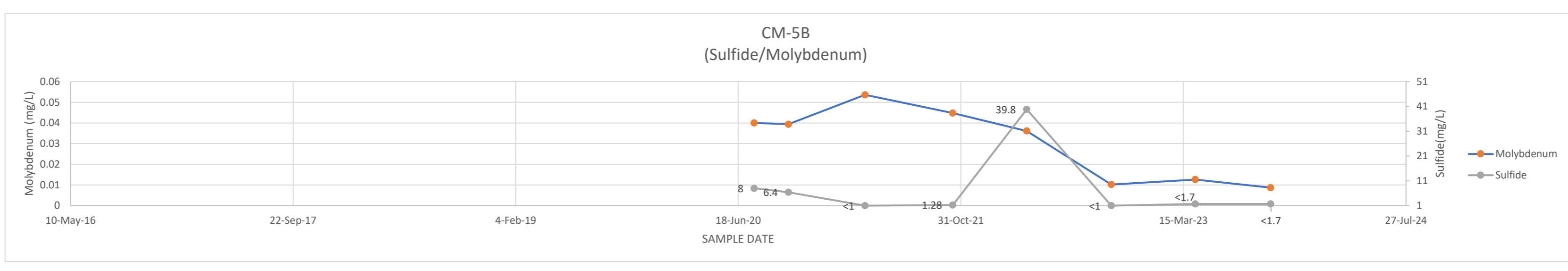
CM-4B	DATE	SULFLIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	5	0.0307	
8-Oct-20	1	0.0306	
30-Mar-21	1	0.0303	
13-Oct-21	1	0.0131	
28-Mar-22	1	0.0184	
4-Oct-22	5.68	0.00771	
11-Apr-23	1.7	0.0123	
26-Sep-23	1.7	0.0105	



CM-5A	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	1	0.0205	
8-Oct-20	1.36	0.011	
30-Mar-21	1.36	0.0182	
13-Oct-21	1	0.0058	
28-Mar-22	1	0.00351	
4-Oct-22	25.2	0.00317	
11-Apr-23	1.7	0.00276	
26-Sep-23	1.7	0.00455	



CM-5B	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	8	0.04	
9-Oct-20	6.4	0.0394	
30-Mar-21	1	0.0536	
13-Oct-21	1.28	0.0448	
28-Mar-22	39.8	0.0361	
4-Oct-22	1	0.0102	
11-Apr-23	1.7	0.0126	
27-Sep-23	1.7	0.00871	



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

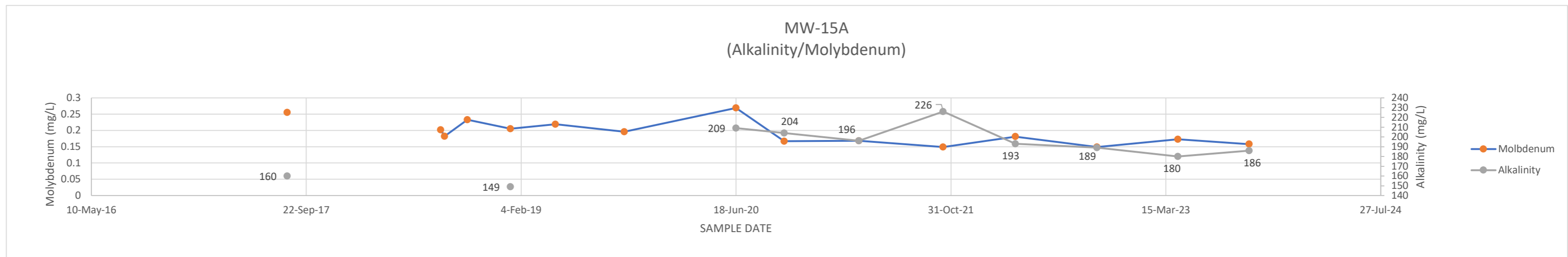
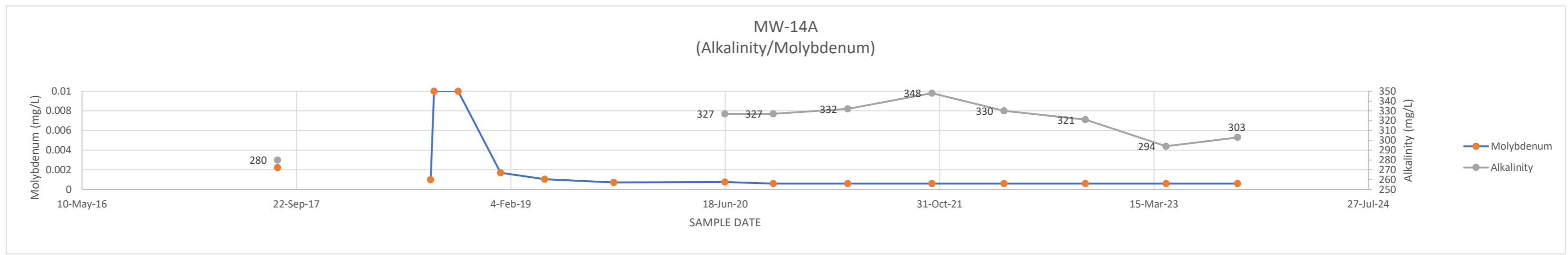
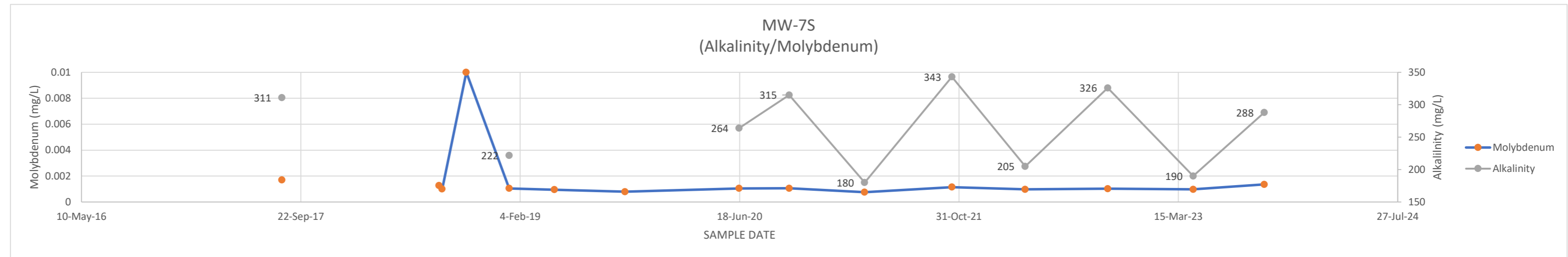
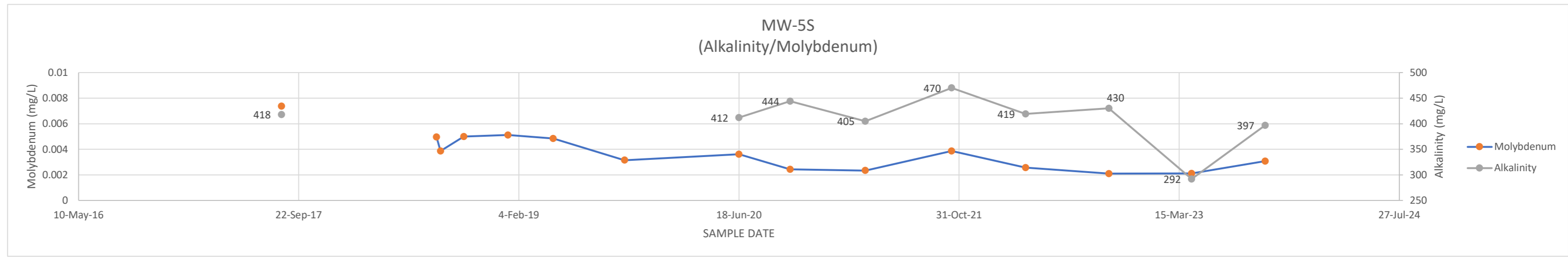
MW-5S	ALKALINITY	MOLYBDENUM
DATE		
14-Aug-17	418	0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18		0.005
10-Jan-19		0.00512
23-Apr-19		0.00485
2-Oct-19		0.00315
18-Jun-20	412	0.00361
12-Oct-20	444	0.00244
1-Apr-21	405	0.00234
14-Oct-21	470	0.00387
31-Mar-22	419	0.00257
6-Oct-22	430	0.0021
12-Apr-23	292	0.00211
26-Sep-23	397	0.00307

Value denoted in red from June 2022 resample

MW-7S	ALKALINITY	MOLYBDENUM
DATE		
10-Aug-17	311	0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18		0.01
10-Jan-19	222	0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20	264	0.00105
9-Oct-20	315	0.00106
30-Mar-21	180	0.000755
15-Oct-21	343	0.00115
31-Mar-22	205	0.000973
5-Oct-22	326	0.00103
18-Apr-23	190	0.000973
27-Sep-23	288	0.00135

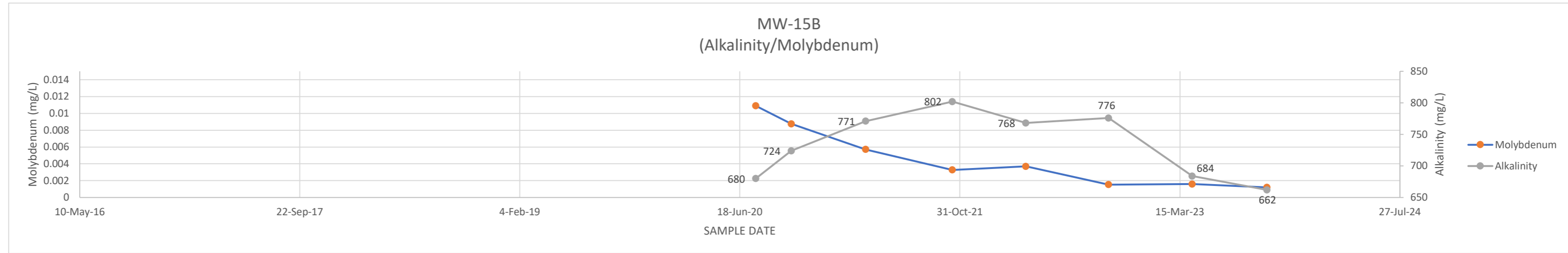
MW-14A	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17	280	0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18		0.01
11-Jan-19		0.0017
24-Apr-19		0.00104
2-Oct-19		0.000709
17-Jun-20	327	0.00076
8-Oct-20	327	0.0006
31-Mar-21	332	0.0006
13-Oct-21	348	0.0006
30-Mar-22	330	0.0006
6-Oct-22	321	0.0006
12-Apr-23	294	0.0006
26-Sep-23	303	0.0006

MW-15A	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17	160	0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18		0.233
10-Jan-19	149	0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20	209	0.269
8-Oct-20	204	0.167
31-Mar-21	196	0.168
13-Oct-21	226	0.149
30-Mar-22	193	0.181
6-Oct-22	189	0.149
12-Apr-23	180	0.173
25-Sep-23	186	0.158

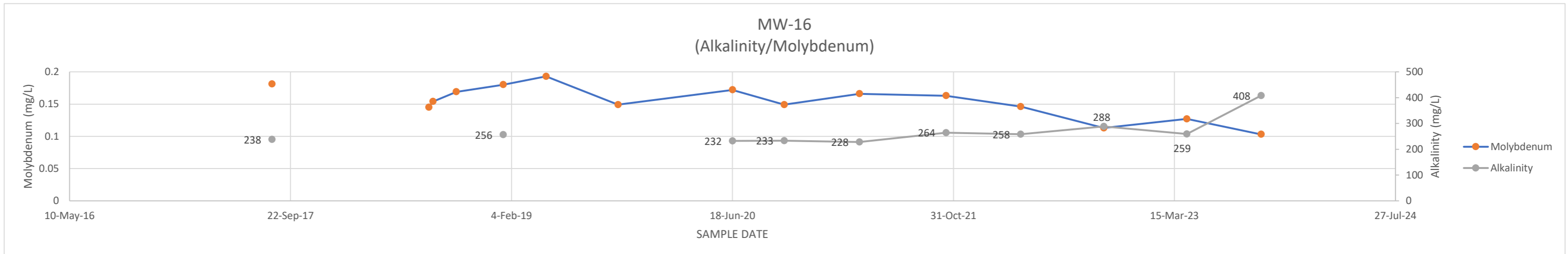


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

MW-15B	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	680	0.0109
13-Oct-20	724	0.00876
31-Mar-21	771	0.00571
14-Oct-21	802	0.00328
30-Mar-22	768	0.0037
4-Oct-22	776	0.00153
12-Apr-23	684	0.0016
29-Sep-23	662	0.0012

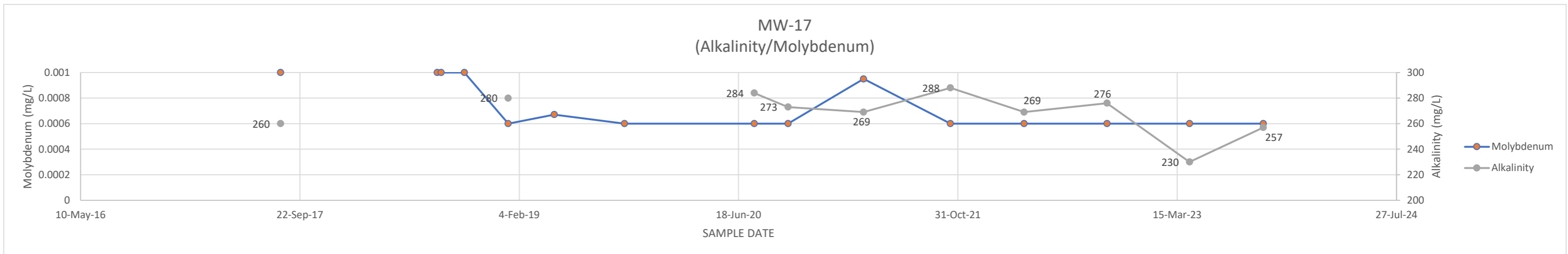


MW-16	ALKALINITY	MOLYBDENUM
DATE		
11-Aug-17	238	0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18		0.169
16-Jan-19	256	0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20	232	0.172
13-Oct-20	233	0.149
1-Apr-21	228	0.166
14-Oct-21	264	0.163
1-Apr-22	258	0.146
6-Oct-22	288	0.113
12-Apr-23	259	0.127
27-Sep-23	408	0.103



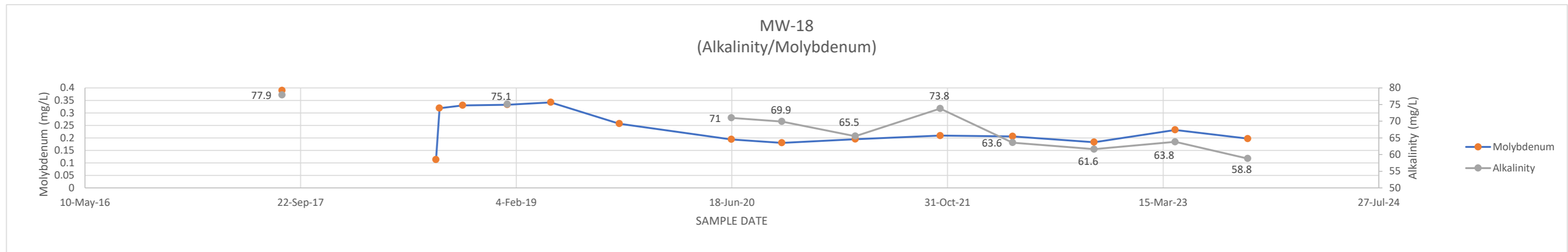
Value denoted in red from June 2022 resample

MW-17	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17	260	0.001
24-May-18		
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18		0.001
10-Jan-19	280	0.0006
25-Apr-19		0.000671
2-Oct-19		0.0006
24-Jul-20	284	0.0006
9-Oct-20	273	0.0006
30-Mar-21	269	0.00095
14-Oct-21	288	0.0006
31-Mar-22	269	0.0006
6-Oct-22	276	0.0006
12-Apr-23	230	0.0006
27-Sep-23	257	0.0006



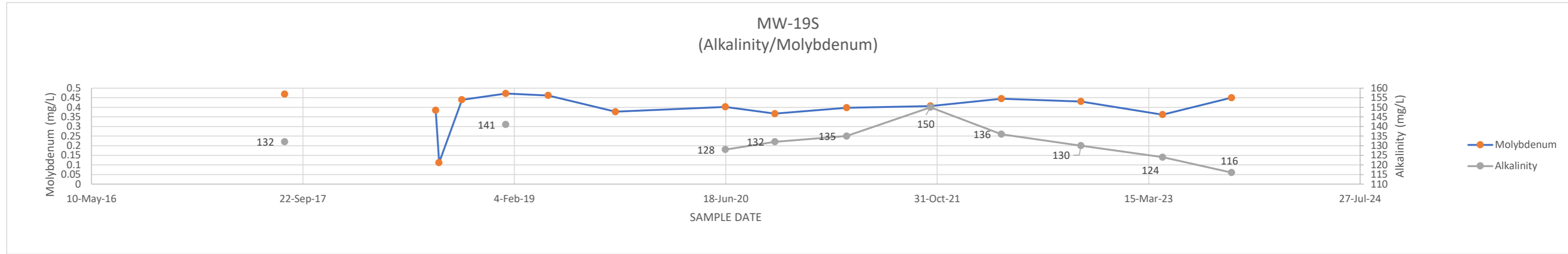
Value denoted in red from June 2022 resample

MW-18	ALKALINITY	MOLYBDENUM
DATE		
10-Aug-17	77.9	0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18		0.33
14-Jan-19	75.1	0.333
25-Apr-19		0.342
1-Oct-19		0.257
17-Jun-20	71	0.194
12-Oct-20	69.9	0.18
31-Mar-21	65.5	0.195
14-Oct-21	73.8	0.209
31-Mar-22	63.6	0.206
6-Oct-22	61.6	0.183
12-Apr-23	63.8	0.232
27-Sep-23	58.8	0.197

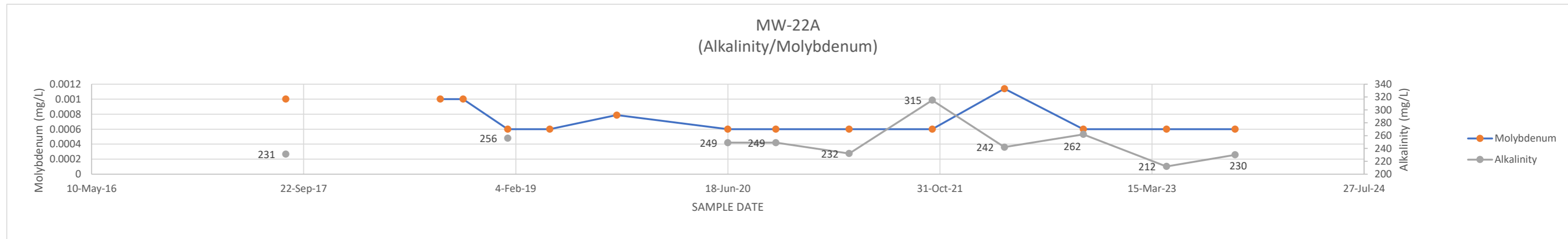


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

MW-19S	ALKALINITY	MOLYBDENUM
DATE		
10-Aug-17	132	0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18		0.439
15-Jan-19	141	0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20	128	0.402
12-Oct-20	132	0.367
31-Mar-21	135	0.398
15-Oct-21	150	0.407
1-Apr-22	136	0.445
6-Oct-22	130	0.43
17-Apr-23	124	0.362
27-Sep-23	116	0.45

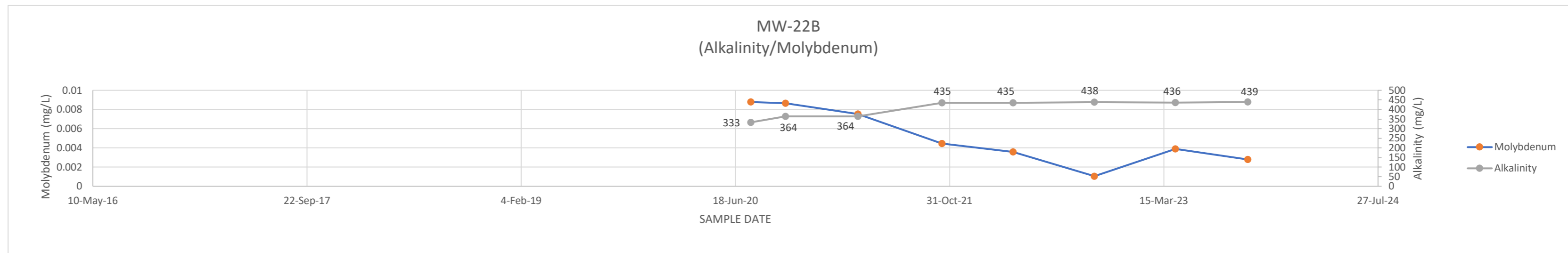


MW-22A	ALKALINITY	MOLYBDENUM
DATE		
11-Aug-17	231	0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19	256	0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	249	0.0006
9-Oct-20	249	0.0006
31-Mar-21	232	0.0006
13-Oct-21	315	0.0006
1-Apr-22	242	0.00114
4-Oct-22	262	0.0006
18-Apr-23	212	0.0006
27-Sep-23	230	0.0006

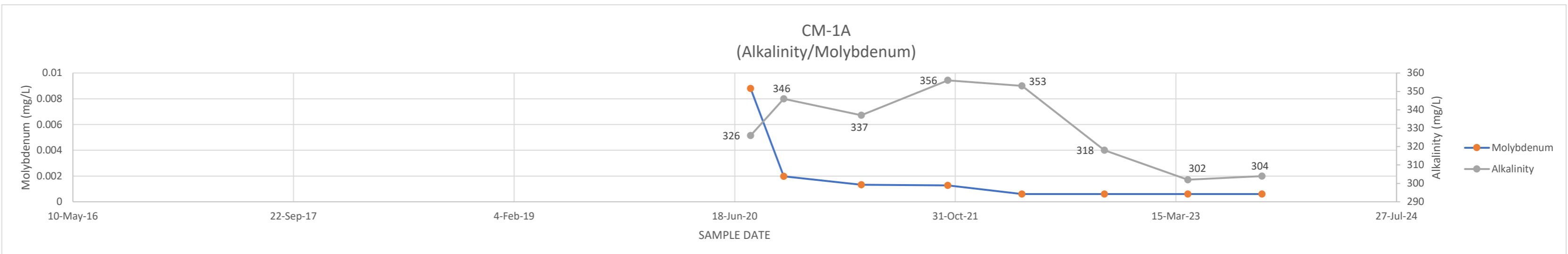


Value denoted in red from June 2022 resample

MW-22B	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	333	0.00878
13-Oct-20	364	0.00866
31-Mar-21	364	0.00753
13-Oct-21	435	0.00446
28-Mar-22	435	0.00357
4-Oct-22	438	0.00105
11-Apr-23	436	0.00389
27-Sep-23	439	0.0028

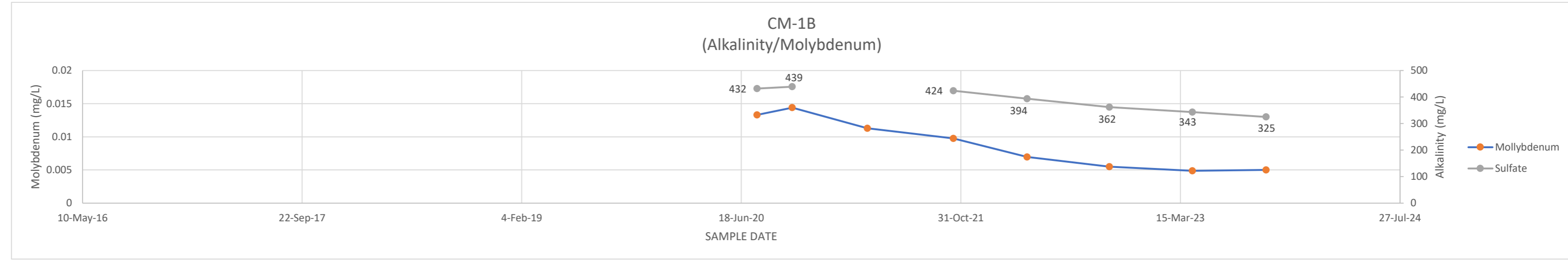


CM-1A	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	326	0.0088
7-Oct-20	346	0.00198
1-Apr-21	337	0.00132
14-Oct-21	356	0.00127
31-Mar-22	353	0.0006
4-Oct-22	318	0.0006
11-Apr-23	302	0.0006
26-Sep-23	304	0.0006

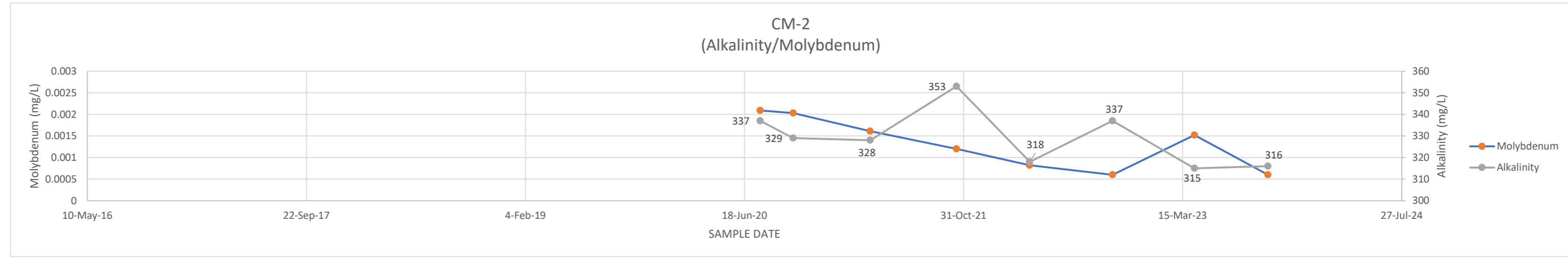


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

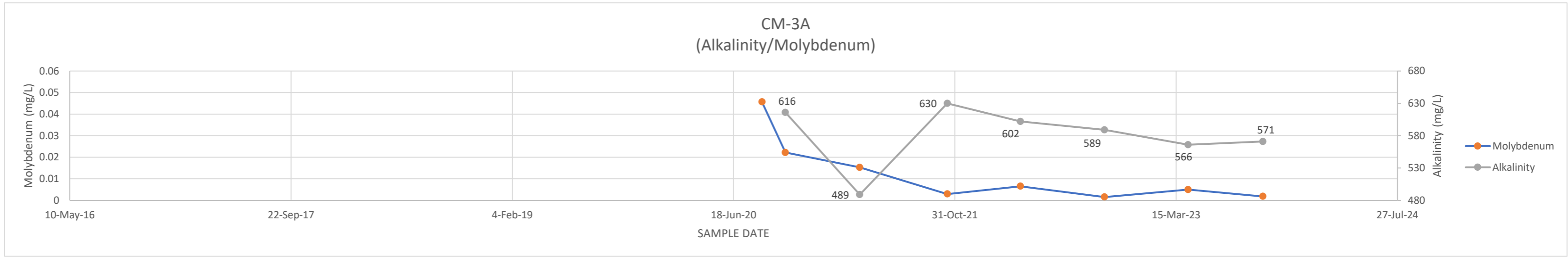
CM-1B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	432	0.0133
12-Oct-20	439	0.0144
1-Apr-21		0.0113
14-Oct-21	424	0.00976
31-Mar-22	394	0.00696
4-Oct-22	362	0.00551
11-Apr-23	343	0.00488
26-Sep-23	325	0.005



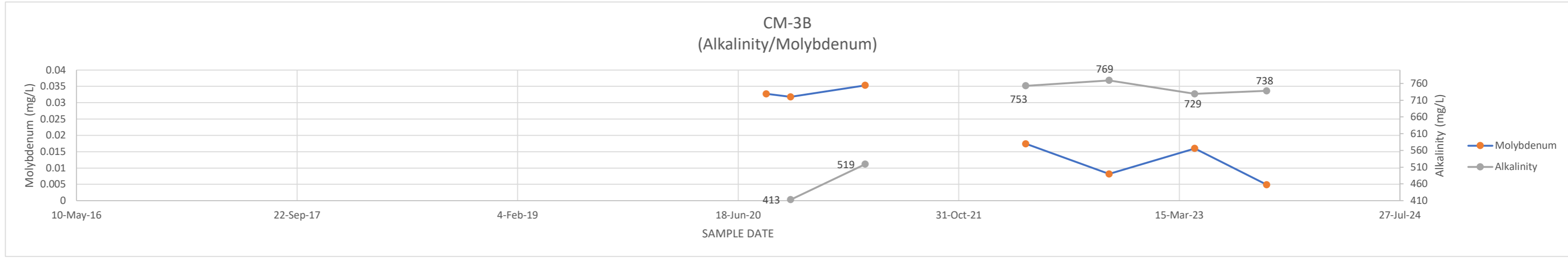
CM-2 DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	337	0.00209
7-Oct-20	329	0.00203
1-Apr-21	328	0.00161
15-Oct-21	353	0.0012
31-Mar-22	318	0.00082
6-Oct-22	337	0.0006
11-Apr-23	315	0.00152
26-Sep-23	316	0.0006



CM-3A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20	616	0.0222
30-Mar-21	489	0.0153
14-Oct-21	630	0.00297
28-Mar-22	602	0.00656
4-Oct-22	589	0.00155
11-Apr-23	566	0.00503
27-Sep-23	571	0.00187

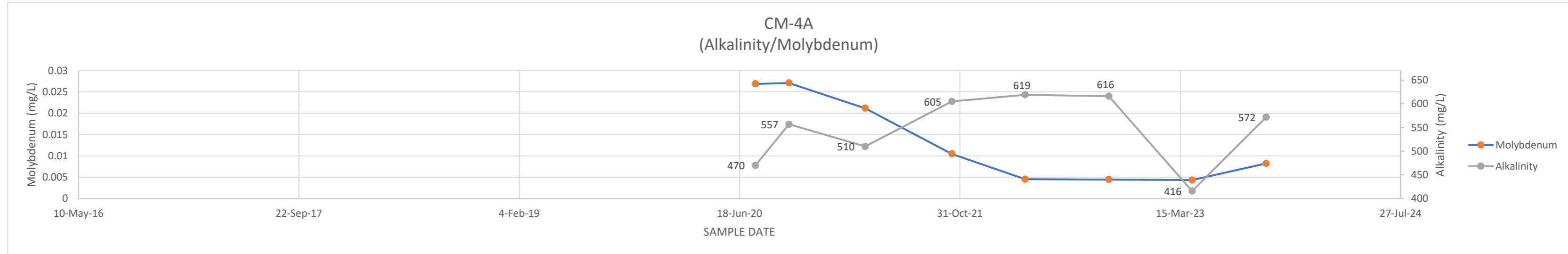


CM-3B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20	413	0.0318
2-Apr-21	519	0.0353
11-Oct-21		
1-Apr-22	753	0.0174
7-Oct-22	769	0.00819
19-Apr-23	729	0.016
29-Sep-23	738	0.0049

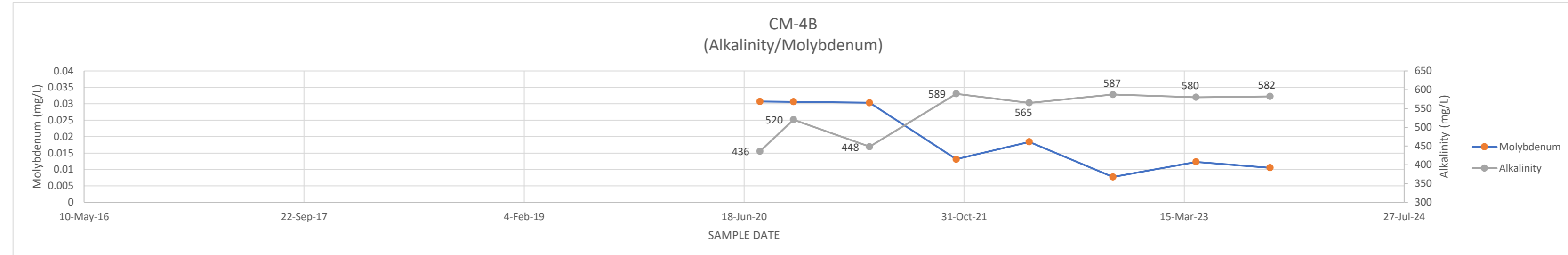


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

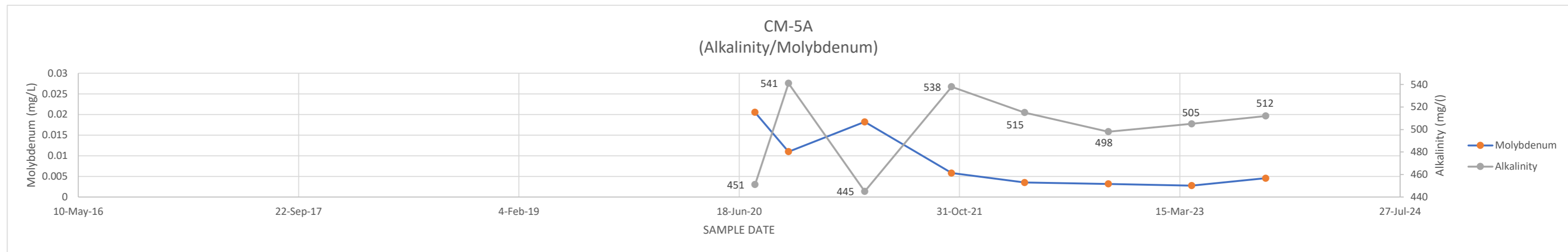
CM-4A	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	470	0.0269
8-Oct-20	557	0.0271
30-Mar-21	510	0.0212
13-Oct-21	605	0.0105
28-Mar-22	619	0.00455
4-Oct-22	616	0.00449
11-Apr-23	416	0.00436
26-Sep-23	572	0.00825



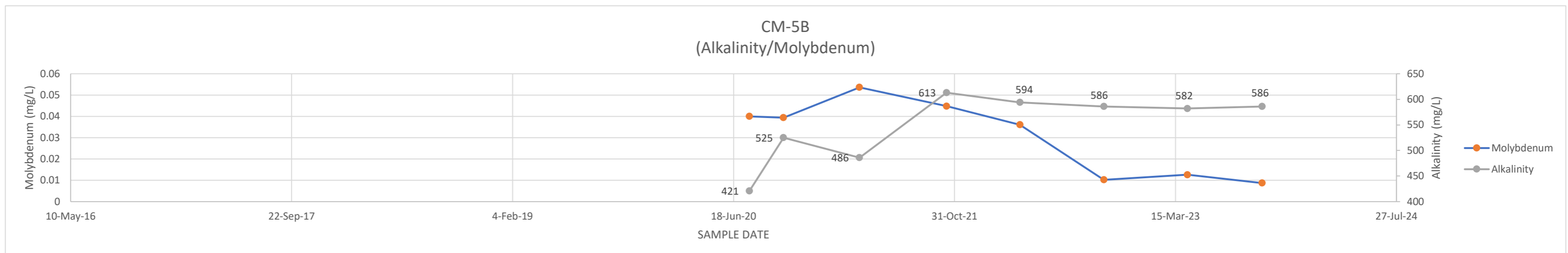
CM-4B	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	436	0.0307
8-Oct-20	520	0.0306
30-Mar-21	448	0.0303
13-Oct-21	589	0.0131
28-Mar-22	565	0.0184
4-Oct-22	587	0.00771
11-Apr-23	580	0.0123
26-Sep-23	582	0.0105



CM-5A	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	451	0.0205
8-Oct-20	541	0.011
30-Mar-21	445	0.0182
13-Oct-21	538	0.0058
28-Mar-22	515	0.00351
4-Oct-22	498	0.00317
11-Apr-23	505	0.00276
26-Sep-23	512	0.00455



CM-5B	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	421	0.04
9-Oct-20	525	0.0394
30-Mar-21	486	0.0536
13-Oct-21	613	0.0448
28-Mar-22	594	0.0361
4-Oct-22	586	0.0102
11-Apr-23	582	0.0126
27-Sep-23	586	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H

CHANGES IN IRON CONCENTRATION COMPARED TO CHANGES IN MONLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

H-1: CHANGES IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

H-2: CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM
CONCENTRATIONS

H-3: CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM
CONCENTRATIONS

ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

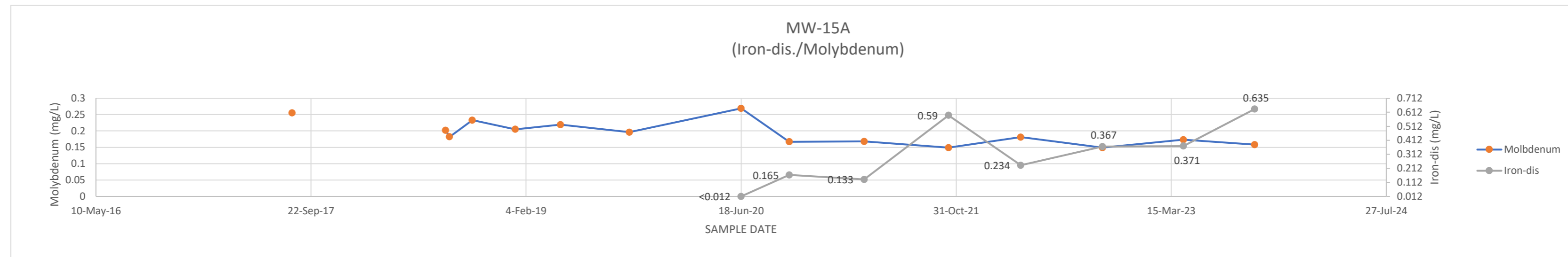
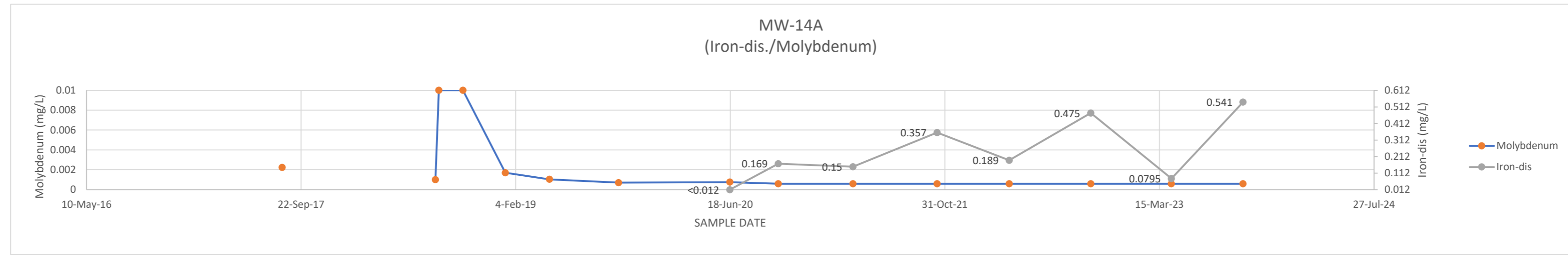
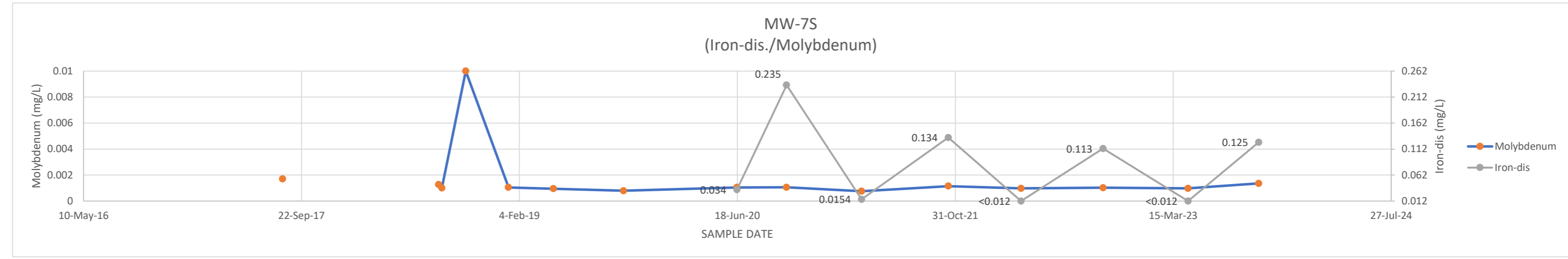
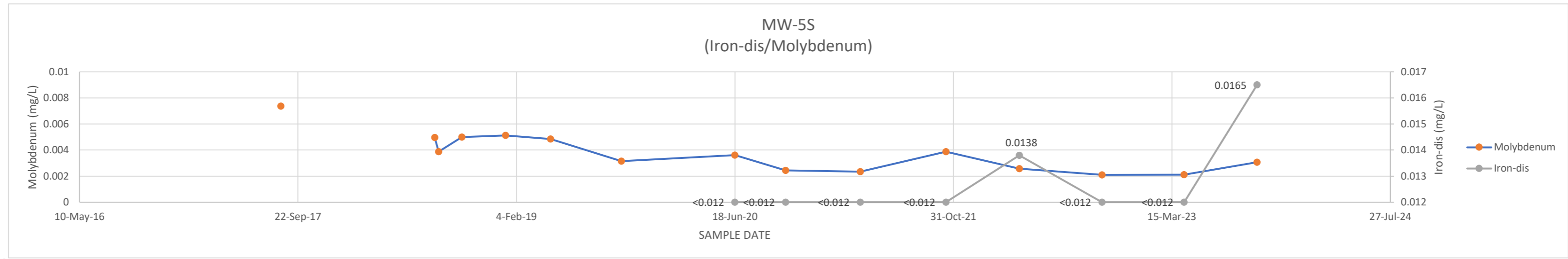
MW-5S	DATE	DIS FE	MOLYBDENUM
	14-Aug-17		0.00737
	22-May-18		
	1-Aug-18		0.00497
	10-Aug-18		0.00387
	2-Oct-18		0.005
	10-Jan-19		0.00512
	23-Apr-19		0.00485
	2-Oct-19		0.00315
	18-Jun-20	0.012	0.00361
	12-Oct-20	0.012	0.00244
	1-Apr-21	0.012	0.00234
	14-Oct-21	0.012	0.00387
	31-Mar-22	0.0138	0.00257
	6-Oct-22	0.012	0.0021
	12-Apr-23	0.012	0.00211
	26-Sep-23	0.0165	0.00307

Value denoted in red from June 2022 resample

MW-7S	DATE	DIS FE	MOLYBDENUM
	10-Aug-17		0.00171
	17-May-18		
	3-Aug-18		0.00127
	10-Aug-18		0.001
	4-Oct-18		0.01
	10-Jan-19		0.00105
	23-Apr-19		0.000952
	1-Oct-19		0.000798
	17-Jun-20	0.034	0.00105
	9-Oct-20	0.235	0.00106
	30-Mar-21	0.0154	0.000755
	15-Oct-21	0.134	0.00115
	31-Mar-22	0.012	0.000973
	5-Oct-22	0.113	0.00103
	18-Apr-23	0.012	0.000973
	27-Sep-23	0.125	0.00135

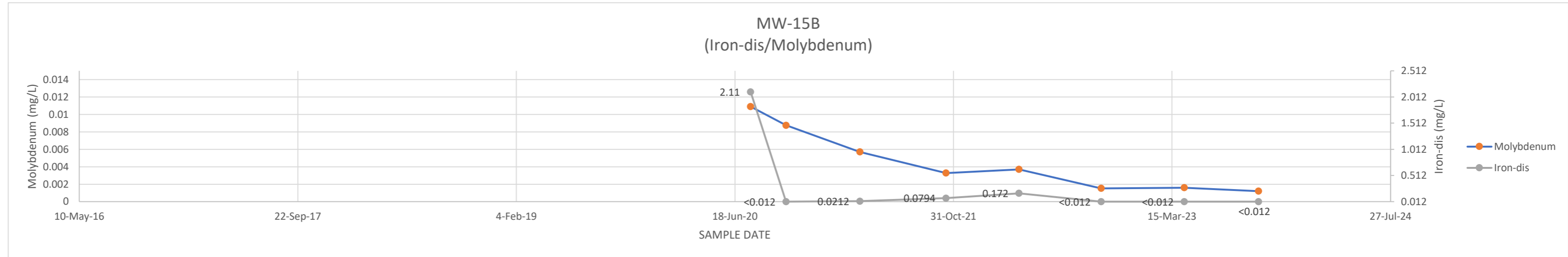
MW-14A	DATE	DIS FE	MOLYBDENUM
	9-Aug-17		0.00223
	17-May-18		
	1-Aug-18		0.001
	9-Aug-18		0.01
	4-Oct-18		0.01
	11-Jan-19		0.0017
	24-Apr-19		0.00104
	2-Oct-19		0.000709
	17-Jun-20	0.012	0.00076
	8-Oct-20	0.169	0.0006
	31-Mar-21	0.15	0.0006
	13-Oct-21	0.357	0.0006
	30-Mar-22	0.189	0.0006
	6-Oct-22	0.475	0.0006
	12-Apr-23	0.0795	0.0006
	26-Sep-23	0.541	0.0006

MW-15A	DATE	DIS FE	MOLYBDENUM
	9-Aug-17		0.255
	24-May-18		
	1-Aug-18		0.202
	10-Aug-18		0.182
	2-Oct-18		0.233
	10-Jan-19		0.205
	25-Apr-19		0.219
	2-Oct-19		0.196
	18-Jun-20	0.012	0.269
	8-Oct-20	0.165	0.167
	31-Mar-21	0.133	0.168
	13-Oct-21	0.59	0.149
	30-Mar-22	0.234	0.181
	6-Oct-22	0.367	0.149
	12-Apr-23	0.371	0.173
	25-Sep-23	0.635	0.158

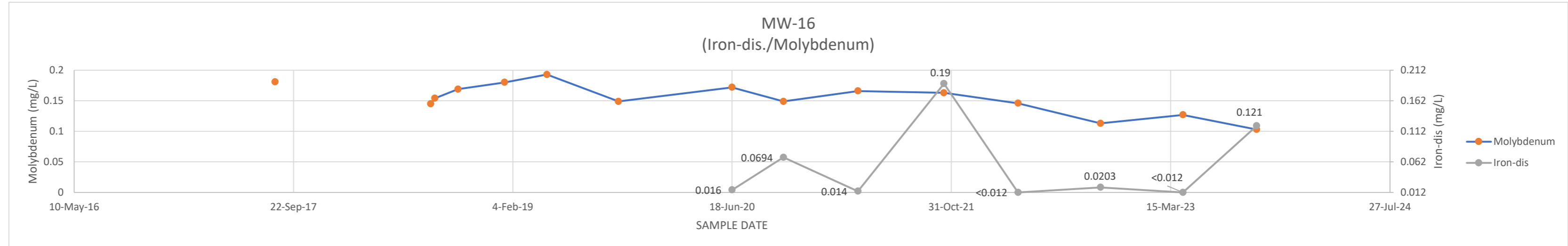


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-15B	DATE	DIS FE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	2.11	0.0109	
13-Oct-20	0.012	0.00876	
31-Mar-21	0.0212	0.00571	
14-Oct-21	0.0794	0.00328	
30-Mar-22	0.172	0.0037	
4-Oct-22	0.012	0.00153	
12-Apr-23	0.012	0.0016	
29-Sep-23	0.012	0.0012	

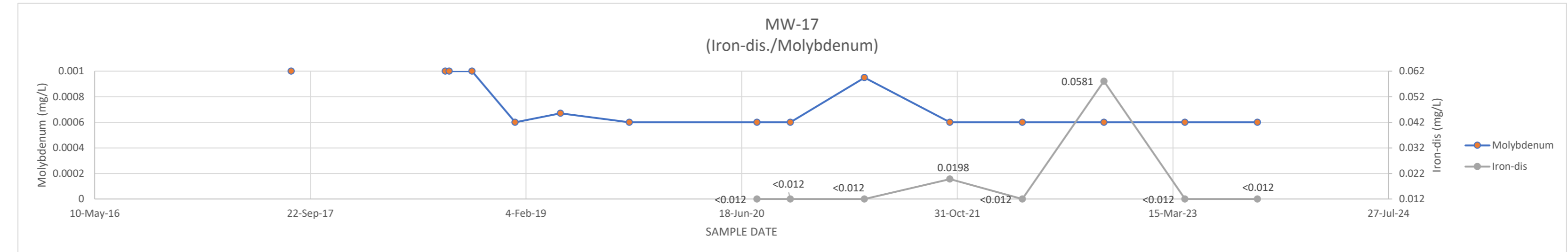


MW-16	DATE	DIS FE	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18			0.169
16-Jan-19			0.18
23-Apr-19			0.193
3-Oct-19			0.149
18-Jun-20	0.016	0.172	
13-Oct-20	0.0694	0.149	
1-Apr-21	0.014	0.166	
14-Oct-21	0.19	0.163	
1-Apr-22	0.012	0.146	
6-Oct-22	0.0203	0.113	
12-Apr-23	0.012	0.127	
27-Sep-23	0.121	0.103	



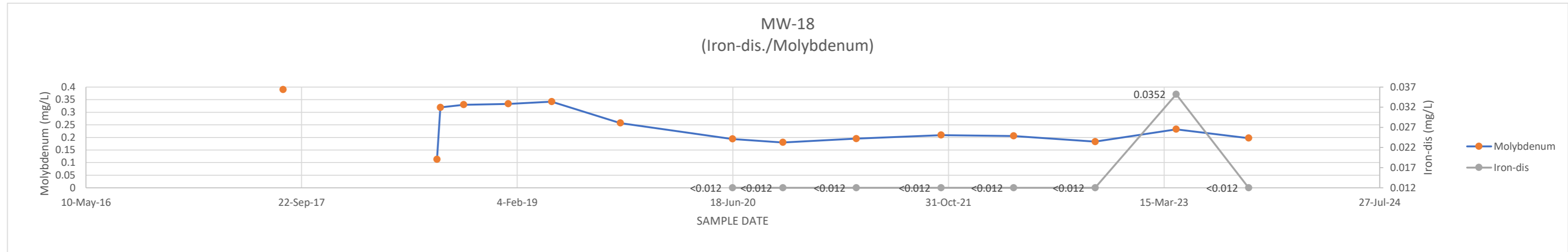
Value denoted in red from June 2022 resample

MW-17	DATE	DIS FE	MOLYBDENUM
9-Aug-17			0.001
24-May-18			
1-Aug-18			0.001
10-Aug-18			0.001
2-Oct-18			0.001
10-Jan-19			0.0006
25-Apr-19			0.000671
2-Oct-19			0.0006
24-Jul-20	0.012	0.0006	
9-Oct-20	0.012	0.0006	
30-Mar-21	0.012	0.00095	
14-Oct-21	0.0198	0.0006	
31-Mar-22	0.012	0.0006	
6-Oct-22	0.0581	0.0006	
12-Apr-23	0.012	0.0006	
27-Sep-23	0.012	0.0006	



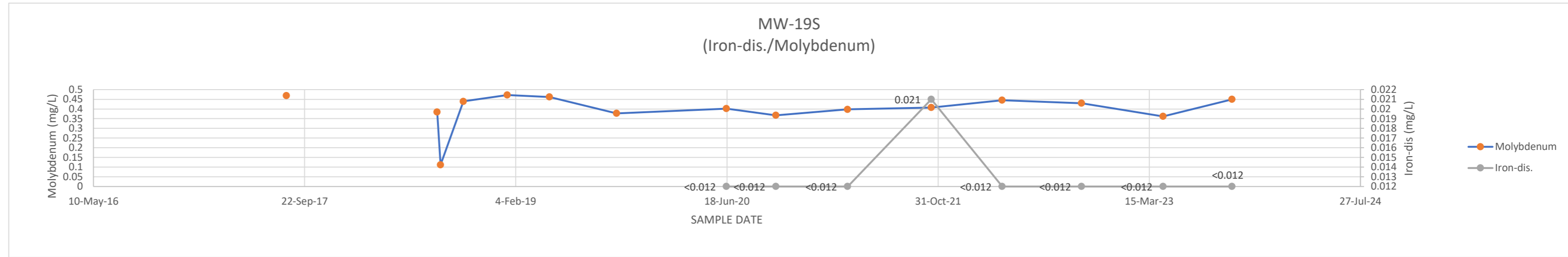
Value denoted in red from June 2022 resample

MW-18	DATE	DIS FE	MOLYBDENUM
10-Aug-17			0.39
18-May-18			
2-Aug-18			0.113
10-Aug-18			0.319
3-Oct-18			0.33
14-Jan-19			0.333
25-Apr-19			0.342
1-Oct-19			0.257
17-Jun-20	0.012	0.194	
12-Oct-20	0.012	0.18	
31-Mar-21	0.012	0.195	
14-Oct-21	0.012	0.209	
31-Mar-22	0.012	0.206	
6-Oct-22	0.012	0.183	
12-Apr-23	0.0352	0.232	
27-Sep-23	0.012	0.197	

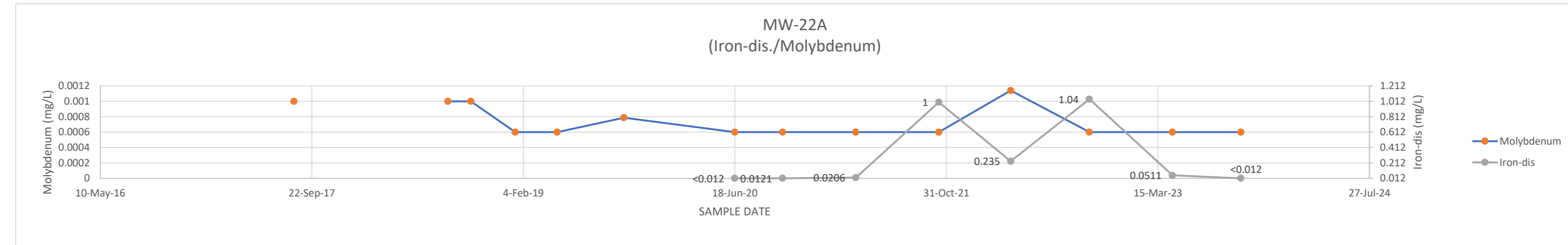


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-19S	DATE	DIS FE	MOLYBDENUM
	10-Aug-17		0.469
	18-May-18		
	2-Aug-18		0.384
	10-Aug-18		0.112
	3-Oct-18		0.439
	15-Jan-19		0.472
	25-Apr-19		0.462
	1-Oct-19		0.377
	17-Jun-20	0.012	0.402
	12-Oct-20	0.012	0.367
	31-Mar-21	0.012	0.398
	15-Oct-21	0.021	0.407
	1-Apr-22	0.012	0.445
	6-Oct-22	0.012	0.43
	17-Apr-23	0.012	0.362
	27-Sep-23	0.012	0.45

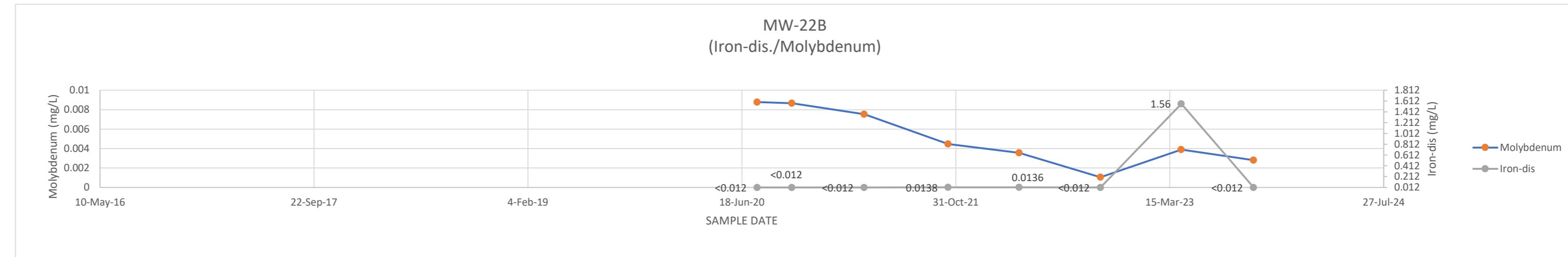


MW-22A	DATE	DIS FE	MOLYBDENUM
	11-Aug-17		0.001
	22-May-18		
	10-Aug-18		0.001
	3-Oct-18		0.001
	16-Jan-19		0.0006
	25-Apr-19		0.0006
	30-Sep-19		0.000787
	18-Jun-20	0.012	0.0006
	9-Oct-20	0.0121	0.0006
	31-Mar-21	0.0206	0.0006
	13-Oct-21	1	0.0006
	1-Apr-22	0.235	0.00114
	4-Oct-22	1.04	0.0006
	18-Apr-23	0.0511	0.0006
	27-Sep-23	0.012	0.0006

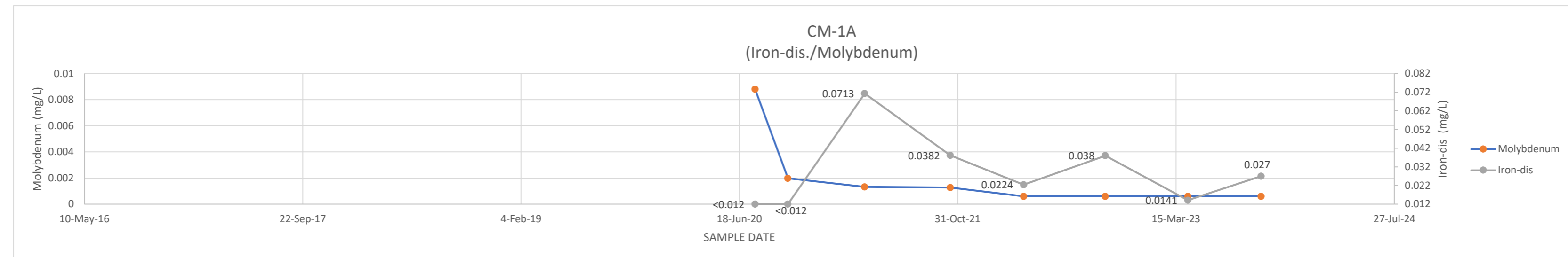


Value denoted in red from June 2022 resample

MW-22B	DATE	DIS FE	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	0.012	0.00878
	13-Oct-20	0.012	0.00866
	31-Mar-21	0.012	0.00753
	13-Oct-21	0.0138	0.00446
	28-Mar-22	0.0136	0.00357
	4-Oct-22	0.012	0.00105
	11-Apr-23	1.56	0.00389
	27-Sep-23	0.012	0.0028

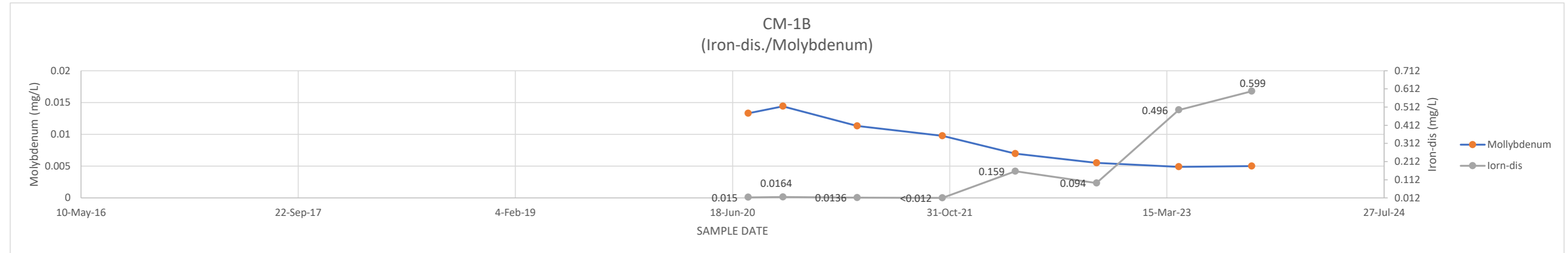


CM-1A	DATE	DIS FE	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	0.012	0.0088
	7-Oct-20	0.012	0.00198
	1-Apr-21	0.0713	0.00132
	14-Oct-21	0.0382	0.00127
	31-Mar-22	0.0224	0.0006
	4-Oct-22	0.038	0.0006
	11-Apr-23	0.0141	0.0006
	26-Sep-23	0.027	0.0006

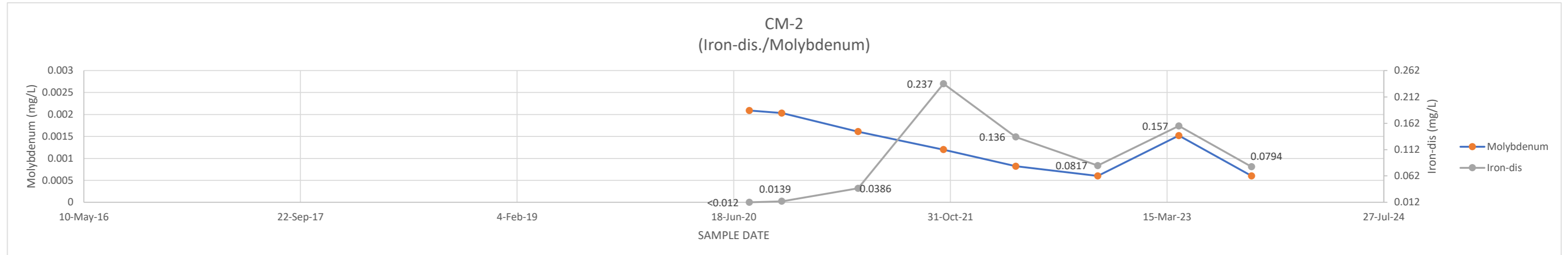


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

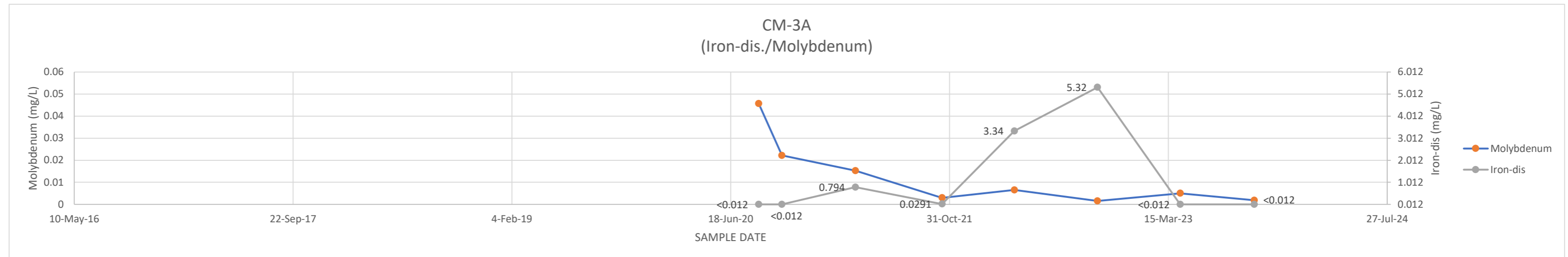
CM-1B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.015	0.0133
12-Oct-20	0.0164	0.0144
1-Apr-21	0.0136	0.0113
14-Oct-21	0.012	0.00976
31-Mar-22	0.159	0.00696
4-Oct-22	0.094	0.00551
11-Apr-23	0.496	0.00488
26-Sep-23	0.599	0.005



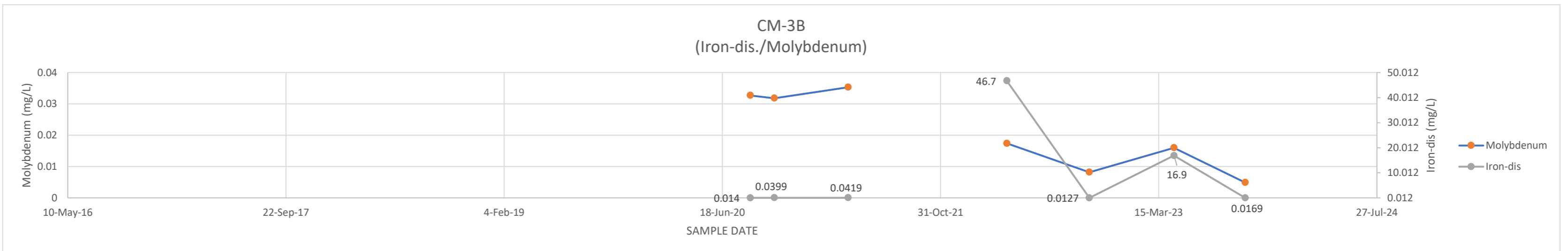
CM-2 DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.00209
7-Oct-20	0.0139	0.00203
1-Apr-21	0.0386	0.00161
15-Oct-21	0.237	0.0012
31-Mar-22	0.136	0.00082
6-Oct-22	0.0817	0.0006
11-Apr-23	0.157	0.00152
26-Sep-23	0.0794	0.0006



CM-3A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.012	0.0457
13-Oct-20	0.012	0.0222
30-Mar-21	0.794	0.0153
14-Oct-21	0.0291	0.00297
28-Mar-22	3.34	0.00656
4-Oct-22	5.32	0.00155
11-Apr-23	0.012	0.00503
27-Sep-23	0.012	0.00187

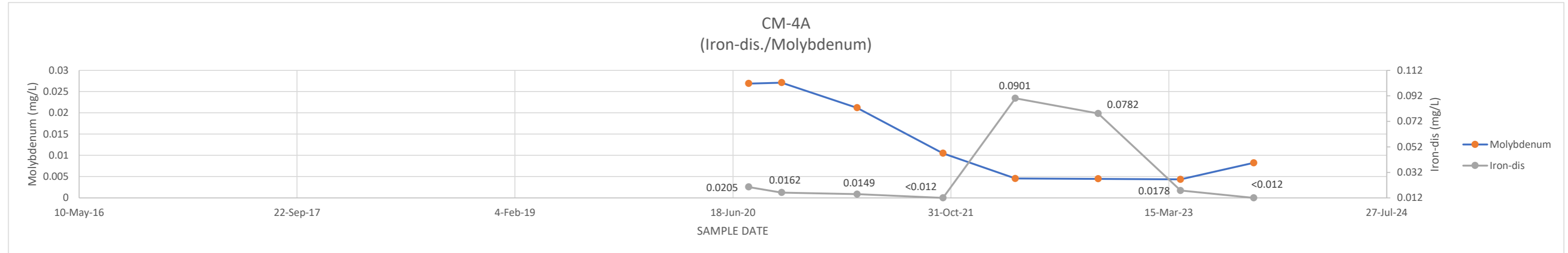


CM-3B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.014	0.0327
15-Oct-20	0.0399	0.0318
2-Apr-21	0.0419	0.0353
11-Oct-21		
1-Apr-22	46.7	0.0174
7-Oct-22	0.0127	0.00819
19-Apr-23	16.9	0.016
29-Sep-23	0.0169	0.0049

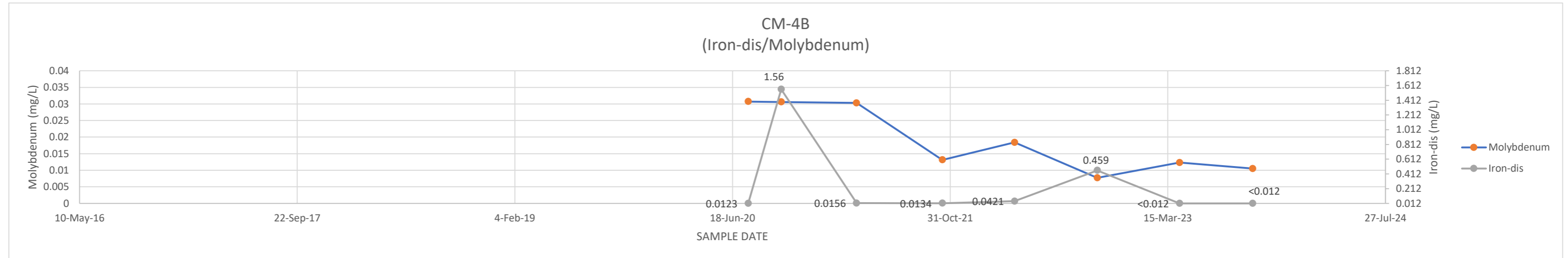


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

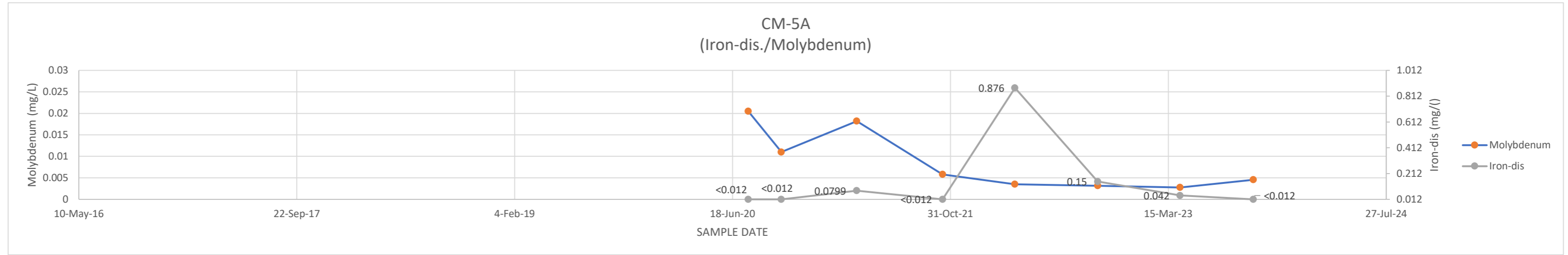
CM-4A	DIS FE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0205	0.0269
8-Oct-20	0.0162	0.0271
30-Mar-21	0.0149	0.0212
13-Oct-21	0.012	0.0105
28-Mar-22	0.0901	0.00455
4-Oct-22	0.0782	0.00449
11-Apr-23	0.0178	0.00436
26-Sep-23	0.012	0.00825



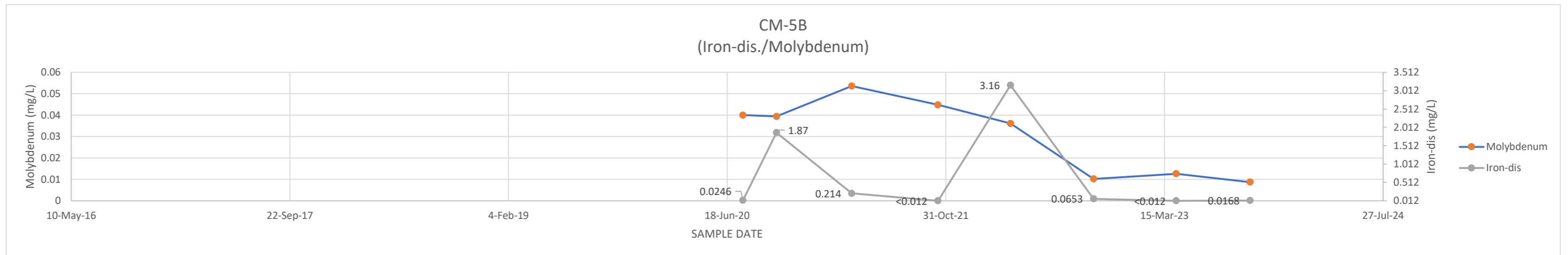
CM-4B	DIS FE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0123	0.0307
8-Oct-20	1.56	0.0306
30-Mar-21	0.0156	0.0303
13-Oct-21	0.0134	0.0131
28-Mar-22	0.0421	0.0184
4-Oct-22	0.459	0.00771
11-Apr-23	0.012	0.0123
26-Sep-23	0.012	0.0105



CM-5A	DIS FE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.0205
8-Oct-20	0.012	0.011
30-Mar-21	0.0799	0.0182
13-Oct-21	0.012	0.0058
28-Mar-22	0.876	0.00351
4-Oct-22	0.15	0.00317
11-Apr-23	0.042	0.00276
26-Sep-23	0.012	0.00455



CM-5B	DIS FE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0246	0.04
9-Oct-20	1.87	0.0394
30-Mar-21	0.214	0.0536
13-Oct-21	0.012	0.0448
28-Mar-22	3.16	0.0361
4-Oct-22	0.0653	0.0102
11-Apr-23	0.012	0.0126
27-Sep-23	0.0168	0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

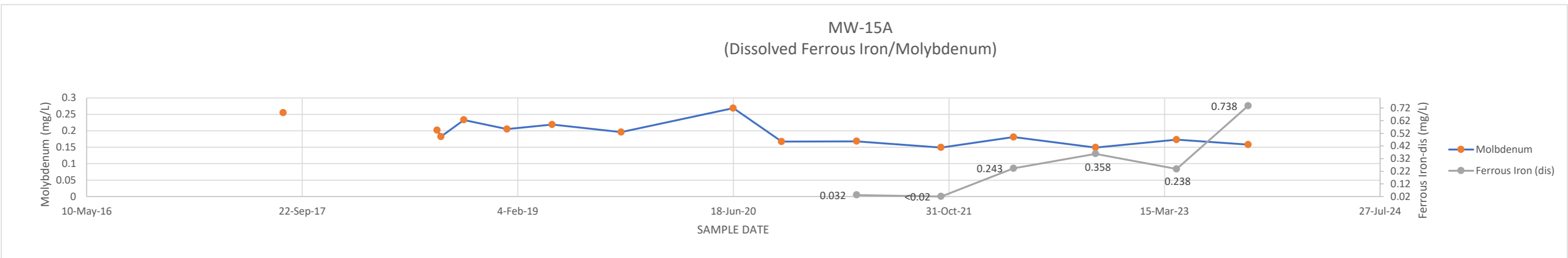
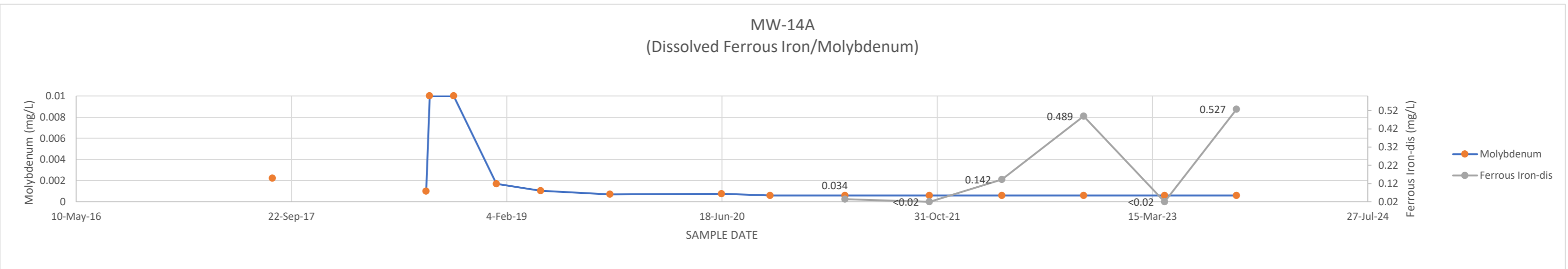
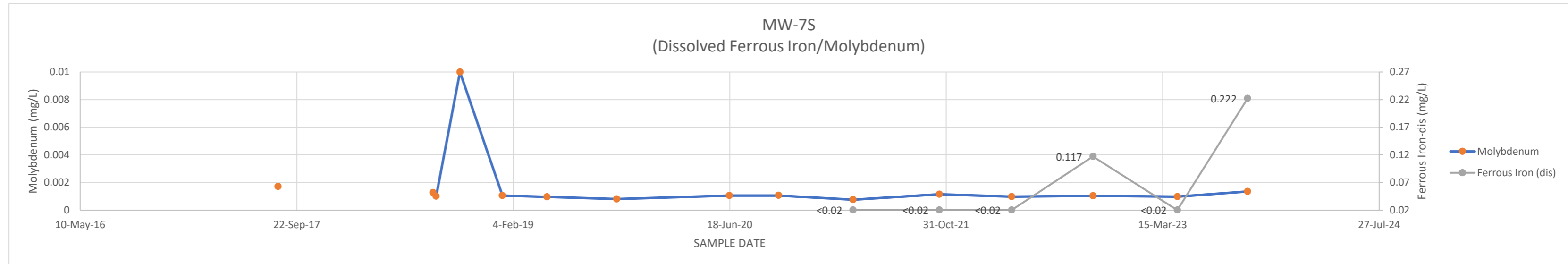
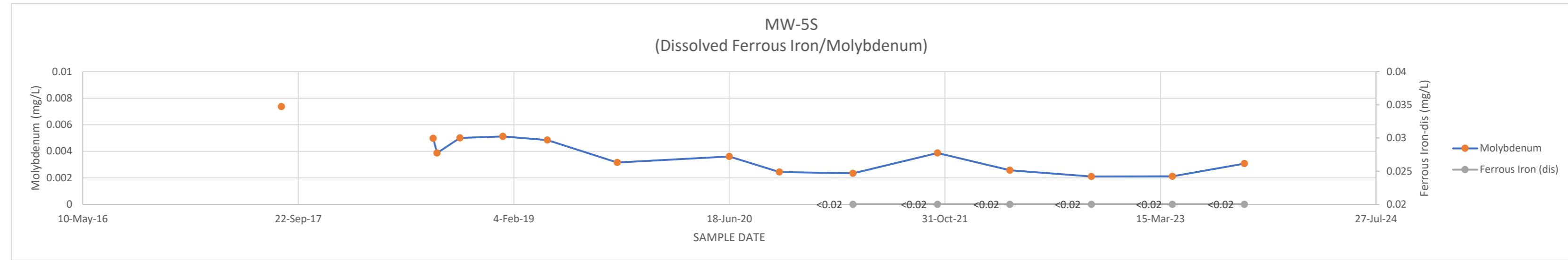
MW-5S	DATE	DIS FE(II)	MOLYBDENUM
	14-Aug-17		0.00737
	22-May-18		
	1-Aug-18		0.00497
	10-Aug-18		0.00387
	2-Oct-18		0.005
	10-Jan-19		0.00512
	23-Apr-19		0.00485
	2-Oct-19		0.00315
	18-Jun-20		0.00361
	12-Oct-20		0.00244
	1-Apr-21	0.02	0.00234
	14-Oct-21	0.02	0.00387
	31-Mar-22	0.02	0.00257
	6-Oct-22	0.02	0.0021
	12-Apr-23	0.02	0.00211
	26-Sep-23	0.02	0.00307

Value denoted in red from June 2022 resample

MW-7S	DATE	DIS FE(II)	MOLYBDENUM
	10-Aug-17		0.00171
	17-May-18		
	3-Aug-18		0.00127
	10-Aug-18		0.001
	4-Oct-18		0.01
	10-Jan-19		0.00105
	23-Apr-19		0.000952
	1-Oct-19		0.000798
	17-Jun-20		0.00105
	9-Oct-20		0.00106
	30-Mar-21	0.02	0.000755
	15-Oct-21	0.02	0.00115
	31-Mar-22	0.02	0.000973
	5-Oct-22	0.117	0.00103
	18-Apr-23	0.02	0.000973
	27-Sep-23	0.222	0.00135

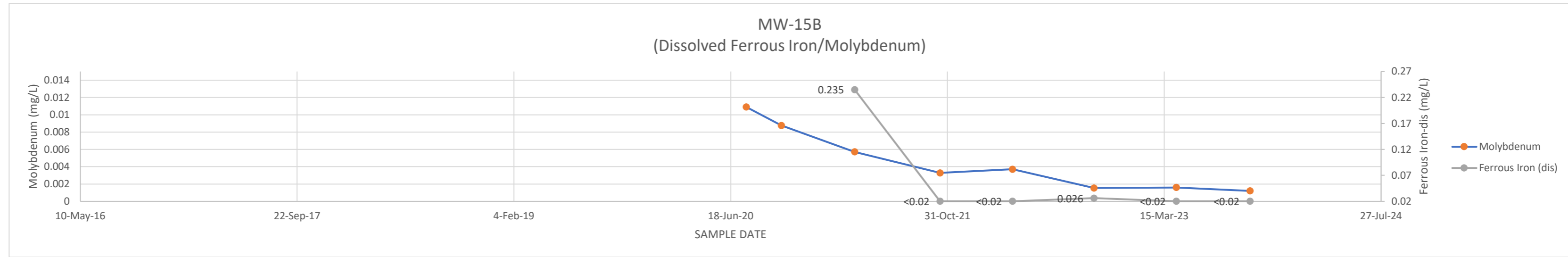
MW-14A	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		0.00223
	17-May-18		
	1-Aug-18		0.001
	9-Aug-18		0.01
	4-Oct-18		0.01
	11-Jan-19		0.0017
	24-Apr-19		0.00104
	2-Oct-19		0.000709
	17-Jun-20		0.00076
	8-Oct-20		0.0006
	31-Mar-21	0.034	0.0006
	13-Oct-21	0.02	0.0006
	30-Mar-22	0.142	0.0006
	6-Oct-22	0.489	0.0006
	12-Apr-23	0.02	0.0006
	26-Sep-23	0.527	0.0006

MW-15A	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		0.255
	24-May-18		
	1-Aug-18		0.202
	10-Aug-18		0.182
	2-Oct-18		0.233
	10-Jan-19		0.205
	25-Apr-19		0.219
	2-Oct-19		0.196
	18-Jun-20		0.269
	8-Oct-20		0.167
	31-Mar-21	0.032	0.168
	13-Oct-21	0.02	0.149
	30-Mar-22	0.243	0.181
	6-Oct-22	0.358	0.149
	12-Apr-23	0.238	0.173
	25-Sep-23	0.738	0.158

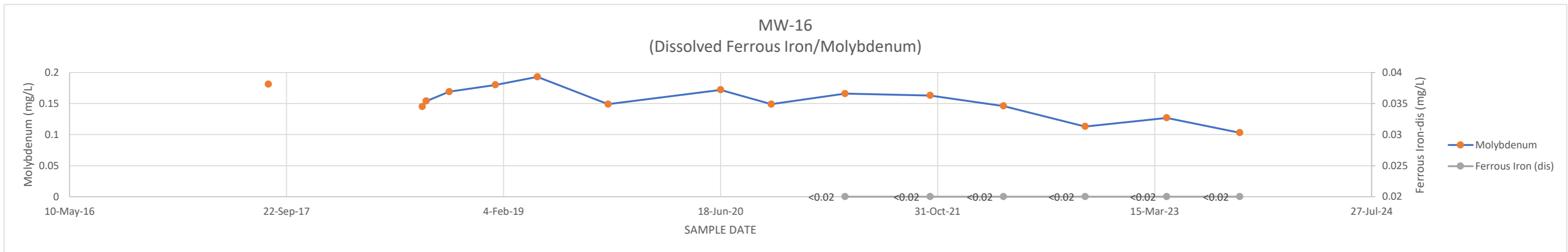


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-15B	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20		0.0109
	13-Oct-20		0.00876
	31-Mar-21	0.235	0.00571
	14-Oct-21	0.02	0.00328
	30-Mar-22	0.02	0.0037
	4-Oct-22	0.026	0.00153
	12-Apr-23	0.02	0.0016
	29-Sep-23	0.02	0.0012

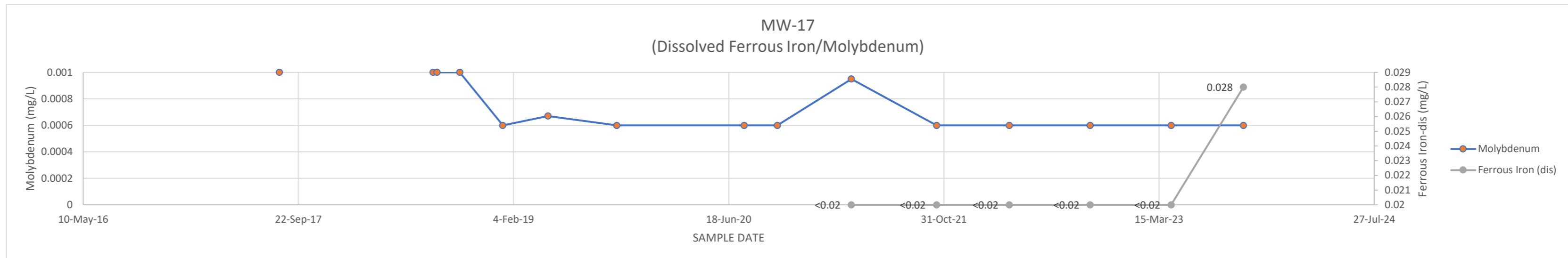


MW-16	DATE	DIS FE(II)	MOLYBDENUM
	11-Aug-17		0.181
	22-May-18		
	1-Aug-18		0.145
	10-Aug-18		0.154
	2-Oct-18		0.169
	16-Jan-19		0.18
	23-Apr-19		0.193
	3-Oct-19		0.149
	18-Jun-20		0.172
	13-Oct-20		0.149
	1-Apr-21	0.02	0.166
	14-Oct-21	0.02	0.163
	1-Apr-22	0.02	0.146
	6-Oct-22	0.02	0.113
	12-Apr-23	0.02	0.127
	27-Sep-23	0.02	0.103



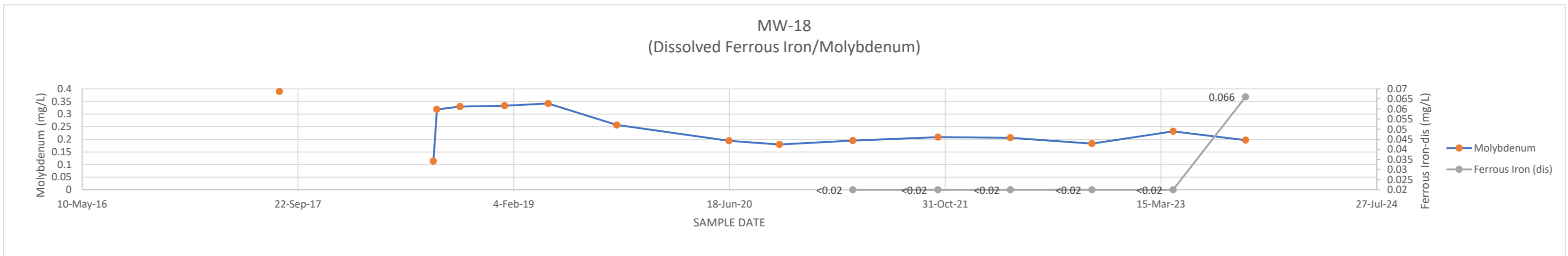
Value denoted in red from June 2022 resample

MW-17	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		0.001
	24-May-18		
	1-Aug-18		0.001
	10-Aug-18		0.001
	2-Oct-18		0.001
	10-Jan-19		0.0006
	25-Apr-19		0.000671
	2-Oct-19		0.0006
	24-Jul-20		0.0006
	9-Oct-20		0.0006
	30-Mar-21	0.02	0.00095
	14-Oct-21	0.02	0.0006
	1-Apr-22	0.02	0.0006
	6-Oct-22	0.02	0.0006
	12-Apr-23	0.02	0.0006
	27-Sep-23	0.028	0.0006



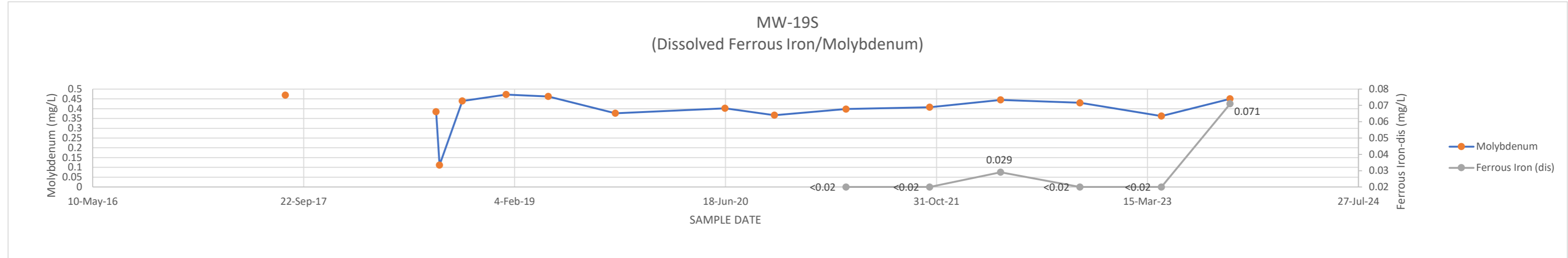
Value denoted in red from June 2022 resample

MW-18	DATE	DIS FE(II)	MOLYBDENUM
	10-Aug-17		0.39
	18-May-18		
	2-Aug-18		0.113
	10-Aug-18		0.319
	3-Oct-18		0.33
	14-Jan-19		0.333
	25-Apr-19		0.342
	1-Oct-19		0.257
	17-Jun-20		0.194
	12-Oct-20		0.18
	31-Mar-21	0.02	0.195
	14-Oct-21	0.02	0.209
	31-Mar-22	0.02	0.206
	6-Oct-22	0.02	0.183
	12-Apr-23	0.02	0.232
	27-Sep-23	0.066	0.197

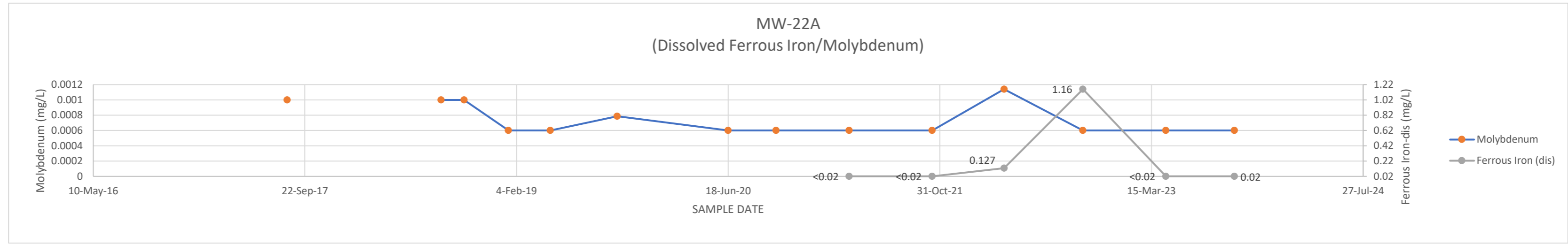


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-19S	DATE	DIS FE(II)	MOLYBDENUM
	10-Aug-17		0.469
	18-May-18		
	2-Aug-18		0.384
	10-Aug-18		0.112
	3-Oct-18		0.439
	15-Jan-19		0.472
	25-Apr-19		0.462
	1-Oct-19		0.377
	17-Jun-20		0.402
	12-Oct-20		0.367
	31-Mar-21	0.02	0.398
	15-Oct-21	0.02	0.407
	1-Apr-22	0.029	0.445
	6-Oct-22	0.02	0.43
	17-Apr-23	0.02	0.362
	27-Sep-23	0.071	0.45

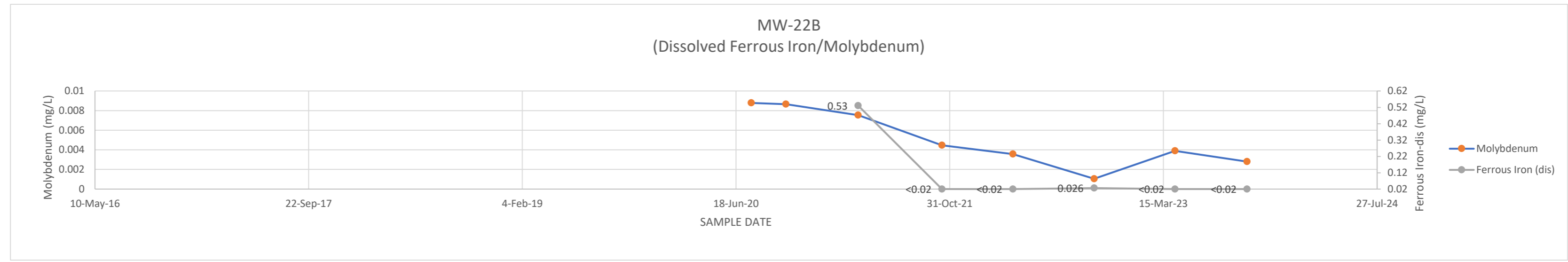


MW-22A	DATE	DIS FE(II)	MOLYBDENUM
	11-Aug-17		0.001
	22-May-18		
	10-Aug-18		0.001
	3-Oct-18		0.001
	16-Jan-19		0.0006
	25-Apr-19		0.0006
	30-Sep-19		0.000787
	18-Jun-20		0.0006
	9-Oct-20		0.0006
	31-Mar-21	0.02	0.0006
	13-Oct-21	0.02	0.0006
	1-Apr-22	0.127	0.00114
	4-Oct-22	1.16	0.0006
	18-Apr-23	0.02	0.0006
	27-Sep-23	0.02	0.0006

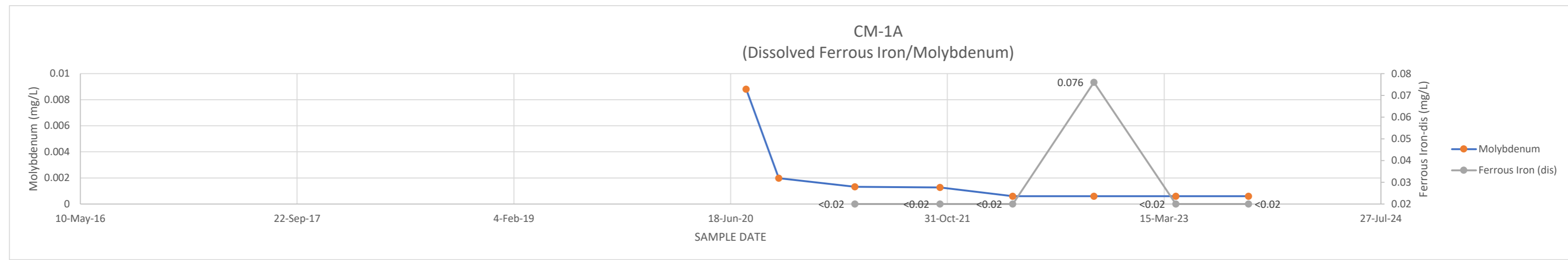


Value denoted in red from June 2022 resample

MW-22B	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20		0.00878
	13-Oct-20		0.00866
	31-Mar-21	0.53	0.00753
	13-Oct-21	0.02	0.00446
	28-Mar-22	0.02	0.00357
	4-Oct-22	0.026	0.00105
	11-Apr-23	0.02	0.00389
	27-Sep-23	0.02	0.0028

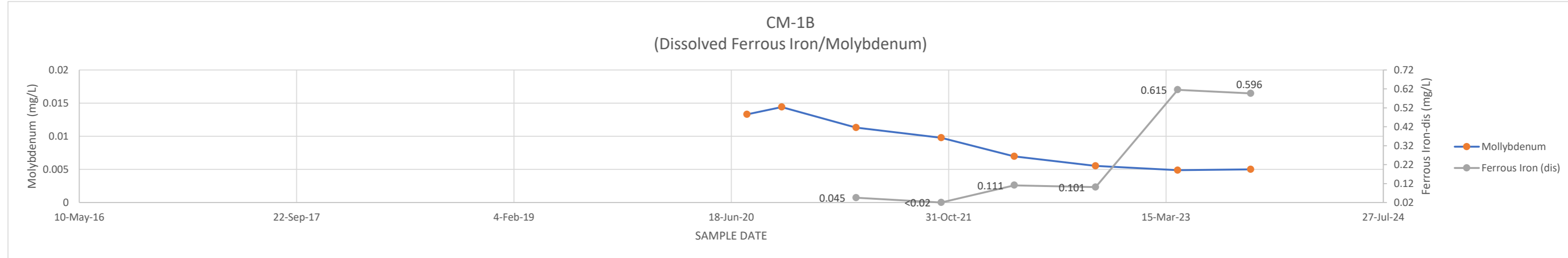


CM-1A	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20		0.0088
	7-Oct-20		0.00198
	1-Apr-21	0.02	0.00132
	14-Oct-21	0.02	0.00127
	31-Mar-22	0.02	0.0006
	4-Oct-22	0.076	0.0006
	11-Apr-23	0.02	0.0006
	26-Sep-23	0.02	0.0006

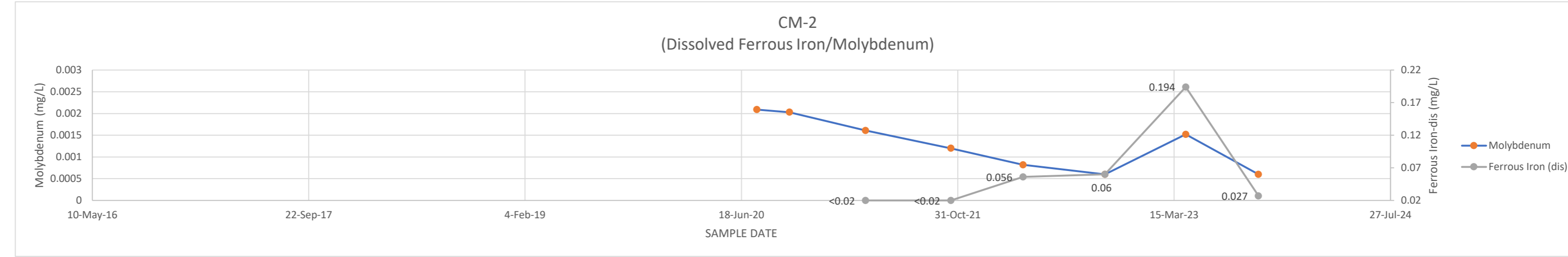


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

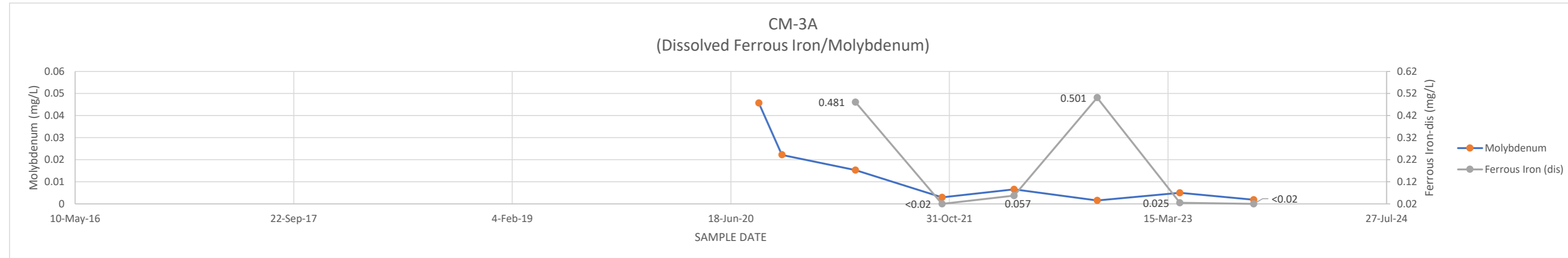
CM-1B DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20		0.0144
1-Apr-21	0.045	0.0113
14-Oct-21	0.02	0.00976
31-Mar-22	0.111	0.00696
4-Oct-22	0.101	0.00551
11-Apr-23	0.615	0.00488
26-Sep-23	0.596	0.005



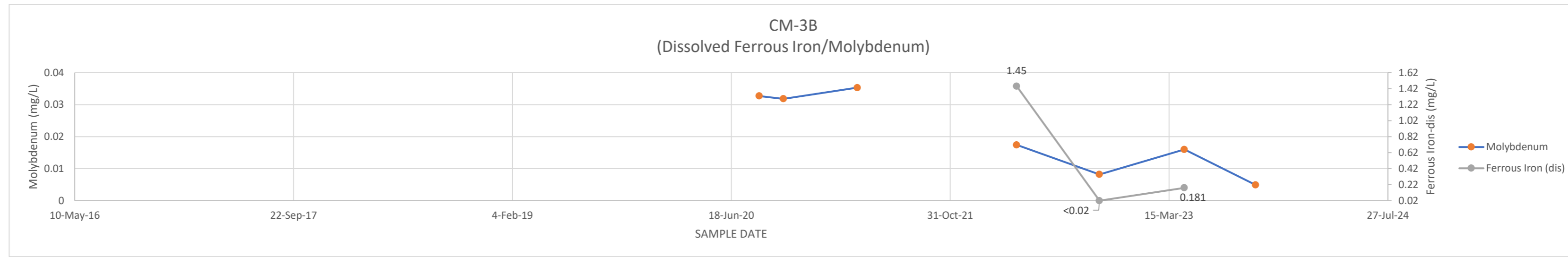
CM-2 DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20		0.00203
1-Apr-21	0.02	0.00161
15-Oct-21	0.02	0.0012
31-Mar-22	0.056	0.00082
6-Oct-22	0.06	0.0006
11-Apr-23	0.194	0.00152
26-Sep-23	0.027	0.0006



CM-3A DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	0.481	0.0153
14-Oct-21	0.02	0.00297
28-Mar-22	0.057	0.00656
4-Oct-22	0.501	0.00155
11-Apr-23	0.025	0.00503
27-Sep-23	0.02	0.00187

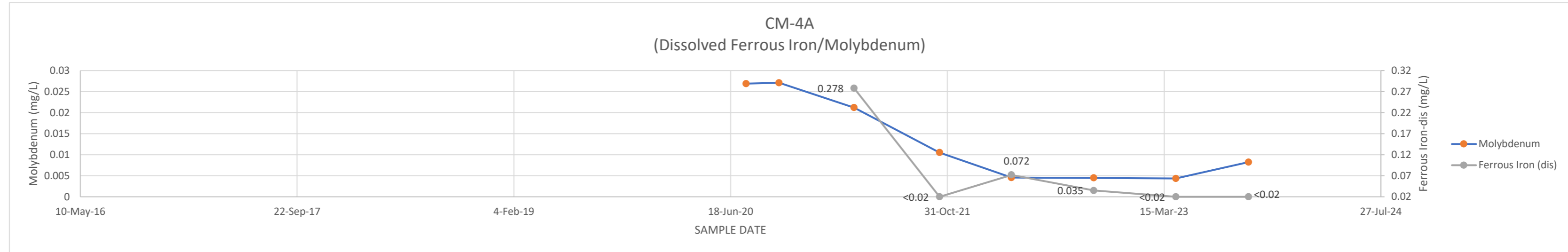


CM-3B DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	1.45	0.0174
7-Oct-22	0.02	0.00819
19-Apr-23	0.181	0.016
29-Sep-23		0.0049

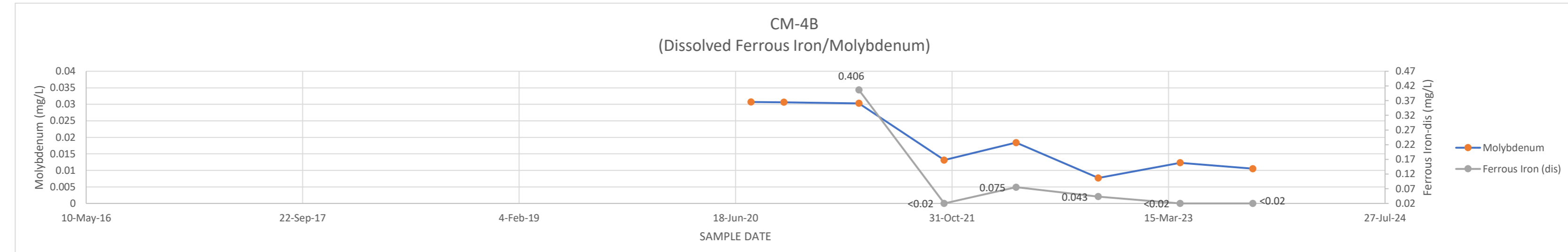


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

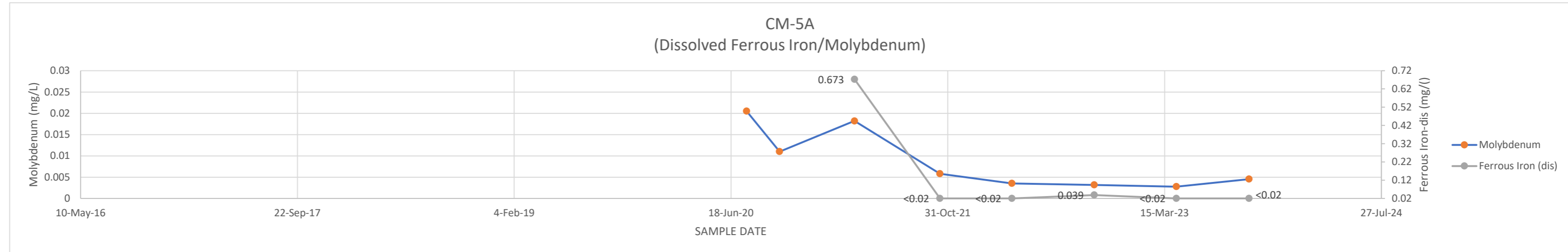
CM-4A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0269
8-Oct-20			0.0271
30-Mar-21	0.278		0.0212
13-Oct-21	0.02		0.0105
28-Mar-22	0.072		0.00455
4-Oct-22	0.035		0.00449
11-Apr-23	0.02		0.00436
26-Sep-23	0.02		0.00825



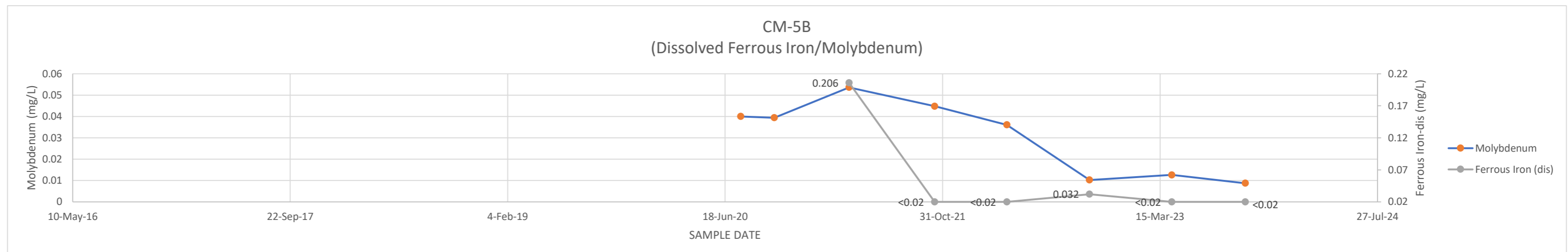
CM-4B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0307
8-Oct-20			0.0306
30-Mar-21	0.406		0.0303
13-Oct-21	0.02		0.0131
28-Mar-22	0.075		0.0184
4-Oct-22	0.043		0.00771
11-Apr-23	0.02		0.0123
26-Sep-23	0.02		0.0105



CM-5A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0205
8-Oct-20			0.011
30-Mar-21	0.673		0.0182
13-Oct-21	0.02		0.0058
28-Mar-22	0.02		0.00351
4-Oct-22	0.039		0.00317
11-Apr-23	0.02		0.00276
26-Sep-23	0.02		0.00455



CM-5B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.04
9-Oct-20			0.0394
30-Mar-21	0.206		0.0536
13-Oct-21	0.02		0.0448
28-Mar-22	0.02		0.0361
4-Oct-22	0.032		0.0102
11-Apr-23	0.02		0.0126
27-Sep-23	0.02		0.00871



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

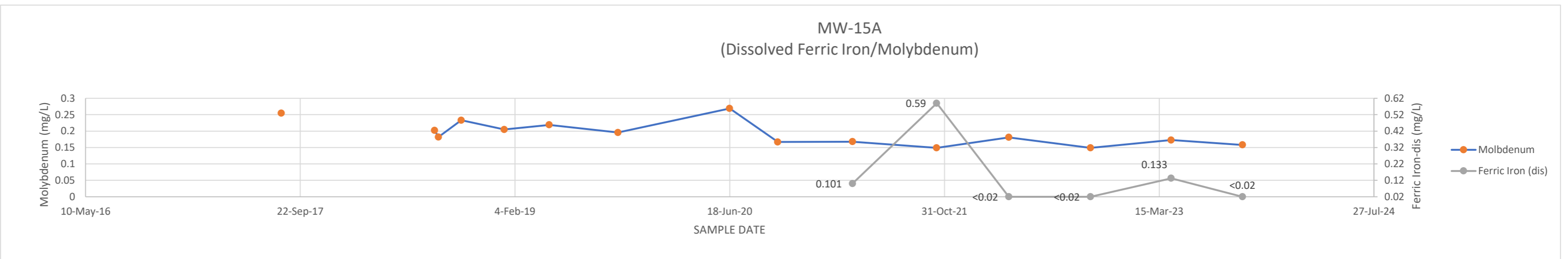
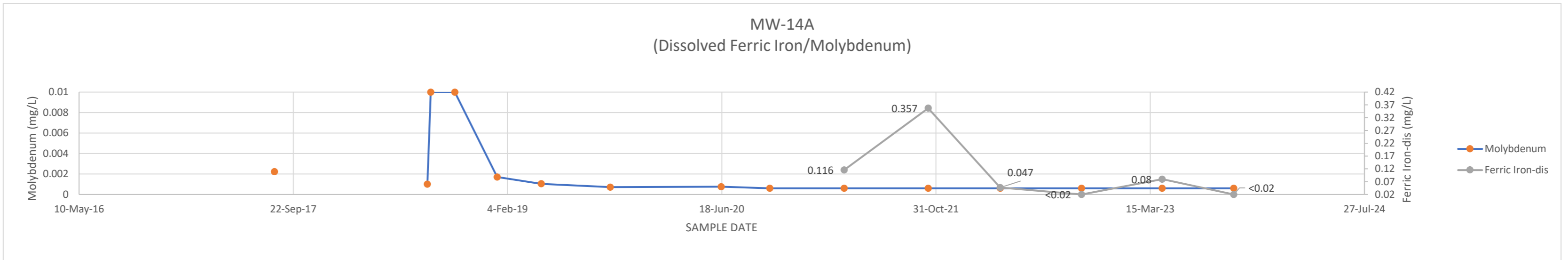
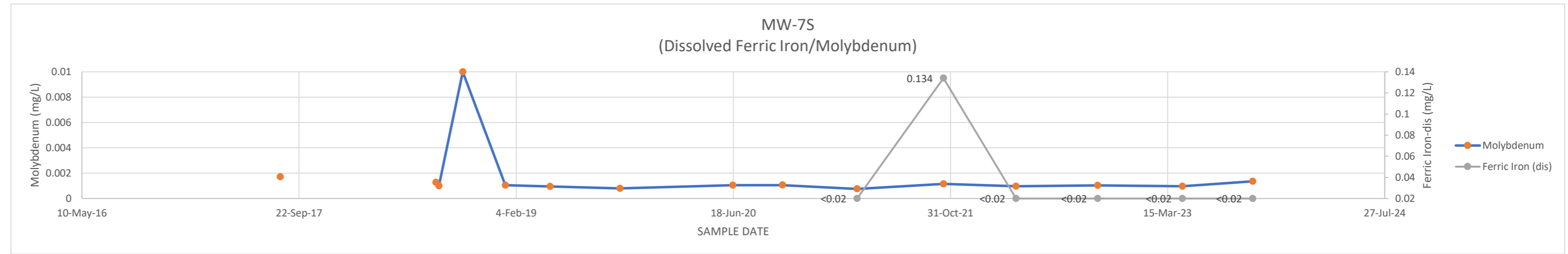
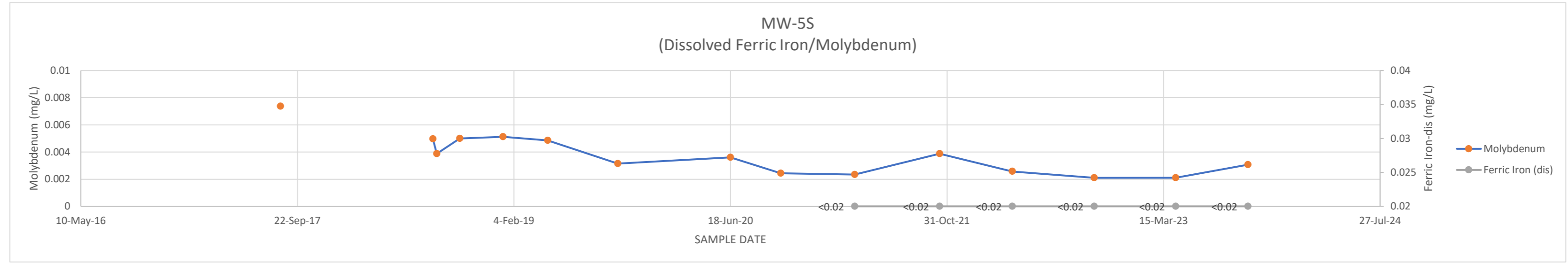
MW-5S	DATE	DIS (III)	MOLYBDENUM
	14-Aug-17		0.00737
	22-May-18		
	1-Aug-18		0.00497
	10-Aug-18		0.00387
	2-Oct-18		0.005
	10-Jan-19		0.00512
	23-Apr-19		0.00485
	2-Oct-19		0.00315
	18-Jun-20		0.00361
	12-Oct-20		0.00244
	1-Apr-21	0.02	0.00234
	14-Oct-21	0.02	0.00387
	31-Mar-22	0.02	0.00257
	6-Oct-22	0.02	0.0021
	12-Apr-23	0.02	0.00211
	26-Sep-23	0.02	0.00307

Value denoted in red from June 2022 resample

MW-7S	DATE	DIS (III)	MOLYBDENUM
	10-Aug-17		0.00171
	17-May-18		
	3-Aug-18		0.00127
	10-Aug-18		0.001
	4-Oct-18		0.01
	10-Jan-19		0.00105
	23-Apr-19		0.000952
	1-Oct-19		0.000798
	17-Jun-20		0.00105
	9-Oct-20		0.00106
	30-Mar-21	0.02	0.000755
	15-Oct-21	0.134	0.00115
	31-Mar-22	0.02	0.000973
	5-Oct-22	0.02	0.00103
	18-Apr-23	0.02	0.000973
	27-Sep-23	0.02	0.00135

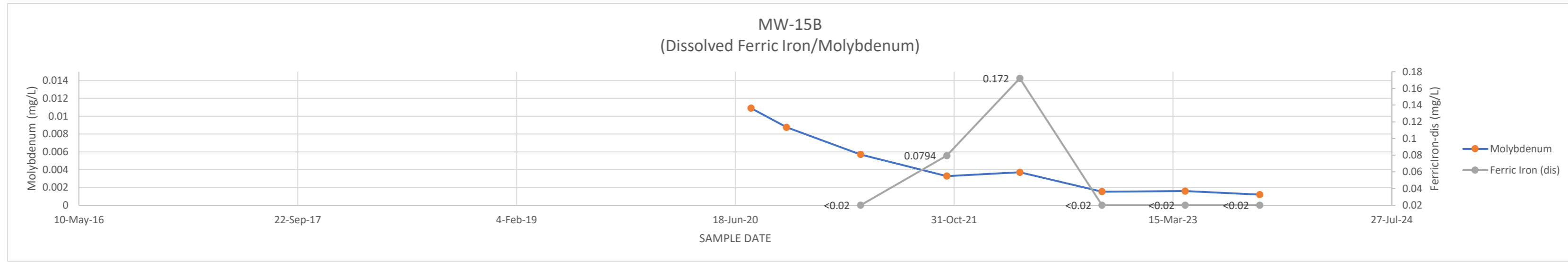
MW-14A	DATE	DIS (III)	MOLYBDENUM
	9-Aug-17		0.00223
	17-May-18		
	1-Aug-18		0.001
	9-Aug-18		0.01
	4-Oct-18		0.01
	11-Jan-19		0.0017
	24-Apr-19		0.00104
	2-Oct-19		0.000709
	17-Jun-20		0.00076
	8-Oct-20		0.0006
	31-Mar-21	0.116	0.0006
	13-Oct-21	0.357	0.0006
	30-Mar-22	0.047	0.0006
	6-Oct-22	0.02	0.0006
	12-Apr-23	0.08	0.0006
	26-Sep-23	0.02	0.0006

MW-15A	DATE	DIS (III)	MOLYBDENUM
	9-Aug-17		0.255
	24-May-18		
	1-Aug-18		0.202
	10-Aug-18		0.182
	2-Oct-18		0.233
	10-Jan-19		0.205
	25-Apr-19		0.219
	2-Oct-19		0.196
	18-Jun-20		0.269
	8-Oct-20		0.167
	31-Mar-21	0.101	0.168
	13-Oct-21	0.59	0.149
	30-Mar-22	0.02	0.181
	6-Oct-22	0.02	0.149
	12-Apr-23	0.133	0.173
	25-Sep-23	0.02	0.158

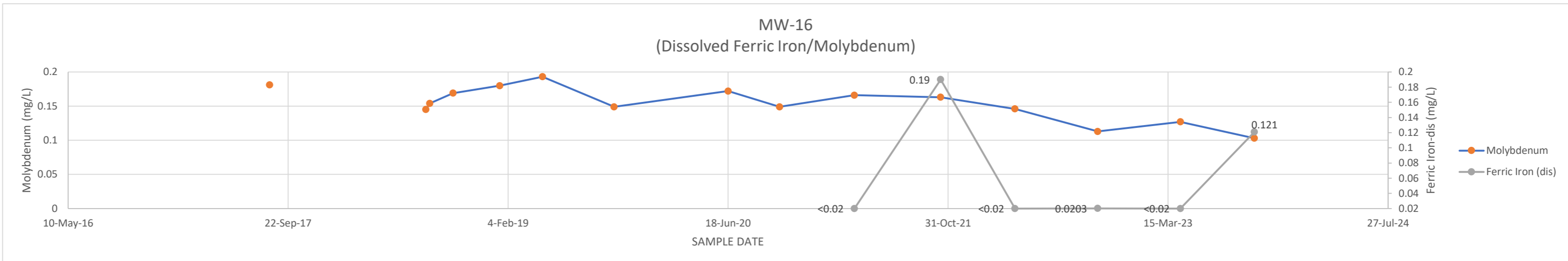


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-15B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0109
13-Oct-20			0.00876
31-Mar-21		0.02	0.00571
14-Oct-21		0.0794	0.00328
30-Mar-22		0.172	0.0037
4-Oct-22		0.02	0.00153
12-Apr-23		0.02	0.0016
29-Sep-23		0.02	0.0012

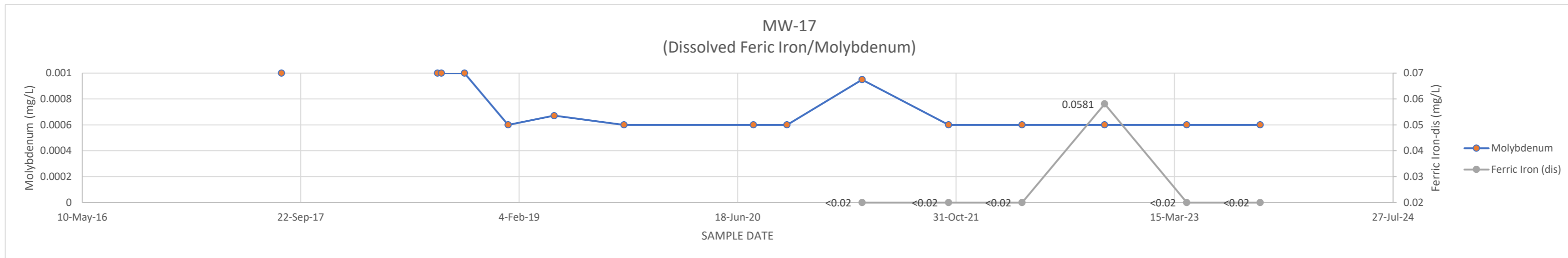


MW-16	DATE	DIS (III)	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18			0.169
16-Jan-19			0.18
23-Apr-19			0.193
3-Oct-19			0.149
18-Jun-20			0.172
13-Oct-20			0.149
1-Apr-21		0.02	0.166
14-Oct-21		0.19	0.163
1-Apr-22		0.02	0.146
6-Oct-22		0.0203	0.113
12-Apr-23		0.02	0.127
27-Sep-23		0.121	0.103



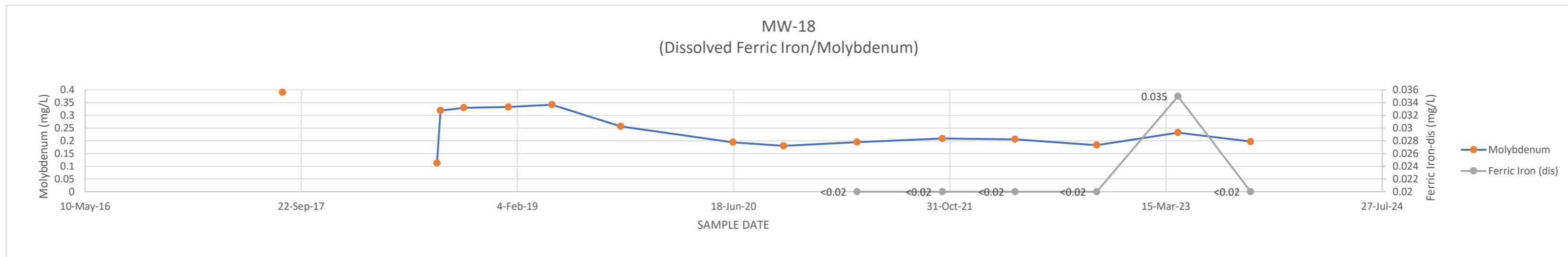
Value denoted in red from June 2022 resample

MW-17	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			0.001
24-May-18			
1-Aug-18			0.001
10-Aug-18			0.001
2-Oct-18			0.001
10-Jan-19			0.0006
25-Apr-19			0.000671
2-Oct-19			0.0006
24-Jul-20			0.0006
9-Oct-20			0.0006
30-Mar-21		0.02	0.00095
14-Oct-21		0.02	0.0006
31-Mar-22		0.02	0.0006
6-Oct-22		0.0581	0.0006
12-Apr-23		0.02	0.0006
27-Sep-23		0.02	0.0006



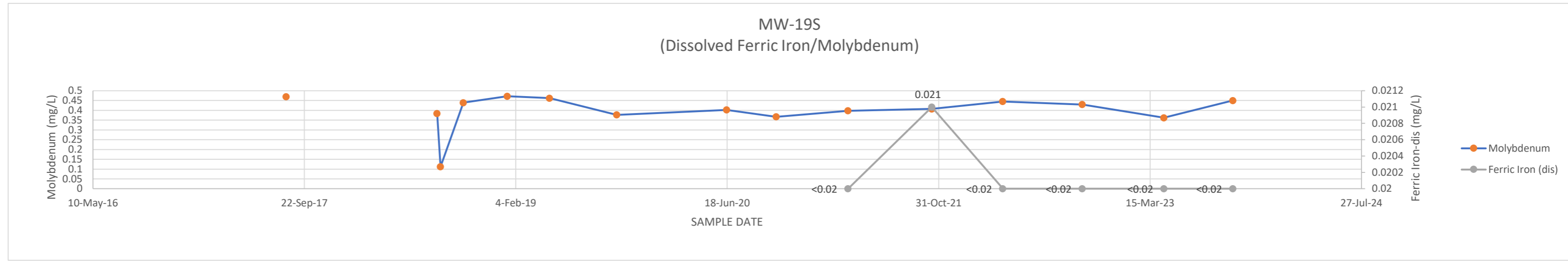
Value denoted in red from June 2022 resample

MW-18	DATE	DIS (III)	MOLYBDENUM
10-Aug-17			0.39
18-May-18			
2-Aug-18			0.113
10-Aug-18			0.319
3-Oct-18			0.33
14-Jan-19			0.333
25-Apr-19			0.342
1-Oct-19			0.257
17-Jun-20			0.194
12-Oct-20			0.18
31-Mar-21		0.02	0.195
14-Oct-21		0.02	0.209
31-Mar-22		0.02	0.206
6-Oct-22		0.02	0.183
12-Apr-23		0.035	0.232
27-Sep-23		0.02	0.197

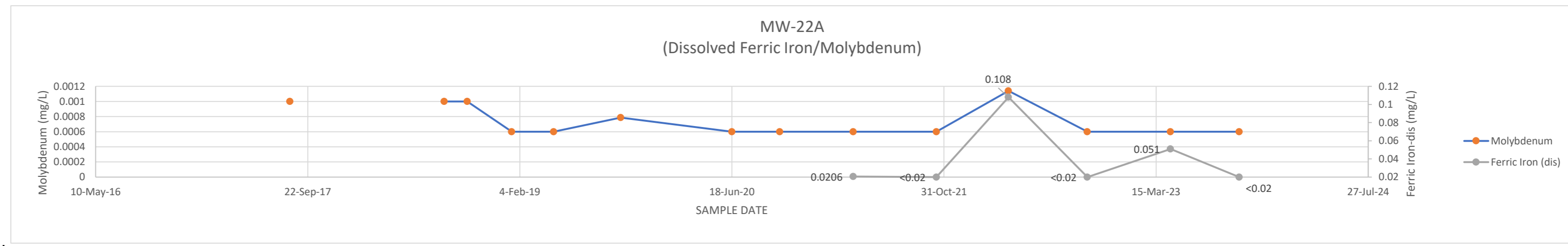


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-19S DATE	DIS (III)	MOLYBDENUM
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18		0.439
15-Jan-19		0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20		0.402
12-Oct-20		0.367
31-Mar-21	0.02	0.398
15-Oct-21	0.021	0.407
1-Apr-22	0.02	0.445
6-Oct-22	0.02	0.43
17-Apr-23	0.02	0.362
27-Sep-23	0.02	0.45

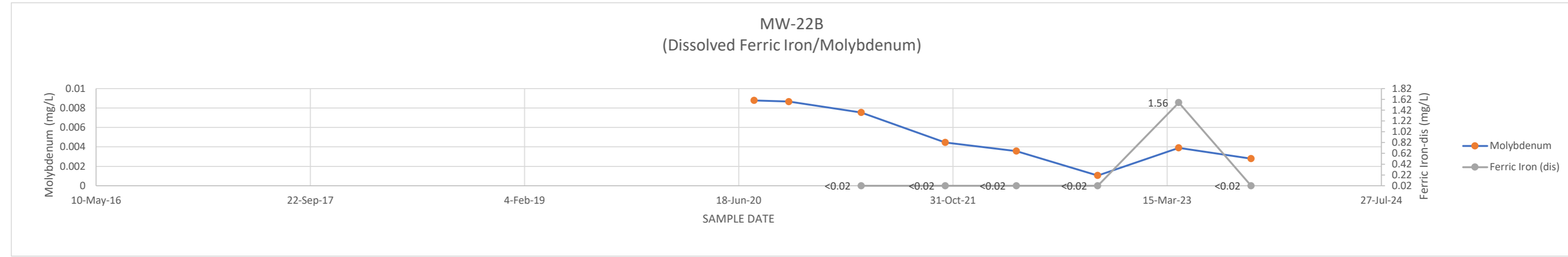


MW-22A DATE	DIS (III)	MOLYBDENUM
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19		0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20		0.0006
9-Oct-20		0.0006
31-Mar-21	0.0206	0.0006
13-Oct-21	0.02	0.0006
1-Apr-22	0.108	0.00114
4-Oct-22	0.02	0.0006
18-Apr-23	0.051	0.0006
27-Sep-23	0.02	0.0006

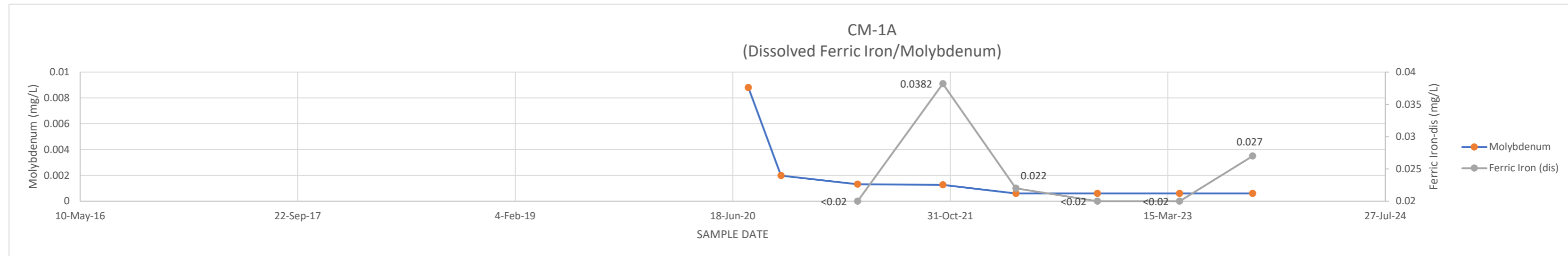


Value denoted in red from June 2022 resample

MW-22B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00878
13-Oct-20		0.00866
31-Mar-21	0.02	0.00753
13-Oct-21	0.02	0.00446
28-Mar-22	0.02	0.00357
4-Oct-22	0.02	0.00105
11-Apr-23	1.56	0.00389
27-Sep-23	0.02	0.0028

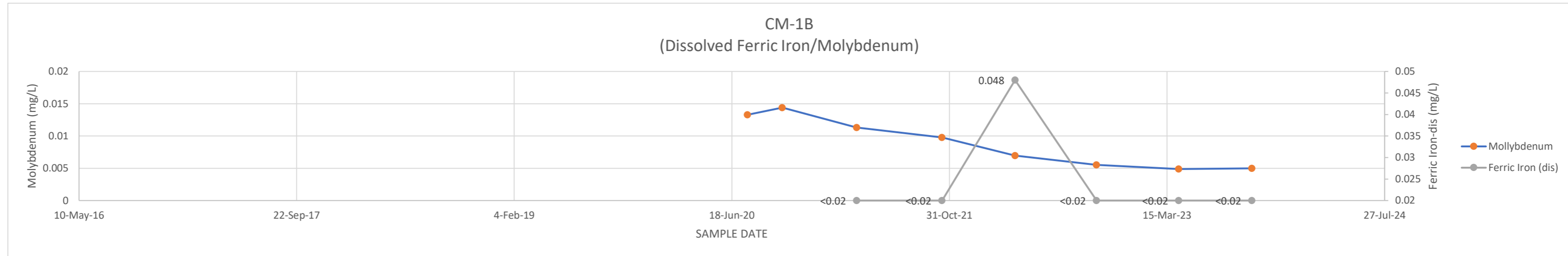


CM-1A DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20		0.00198
1-Apr-21	0.02	0.00132
14-Oct-21	0.0382	0.00127
31-Mar-22	0.022	0.0006
4-Oct-22	0.02	0.0006
11-Apr-23	0.02	0.0006
26-Sep-23	0.027	0.0006

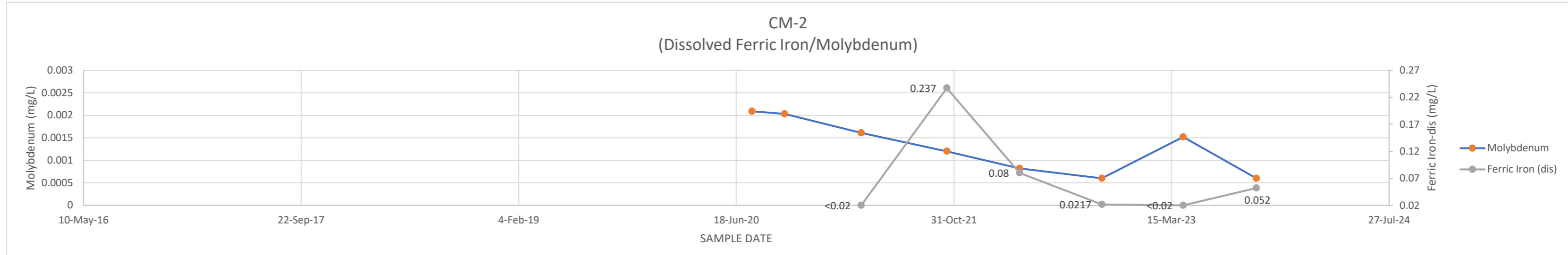


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

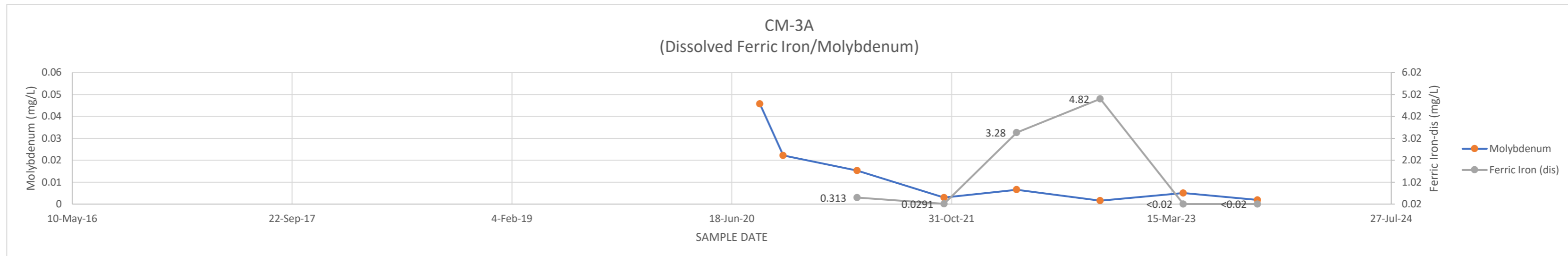
CM-1B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20		0.0144
1-Apr-21	0.02	0.0113
14-Oct-21	0.02	0.00976
31-Mar-22	0.048	0.00696
4-Oct-22	0.02	0.00551
11-Apr-23	0.02	0.00488
26-Sep-23	0.02	0.005



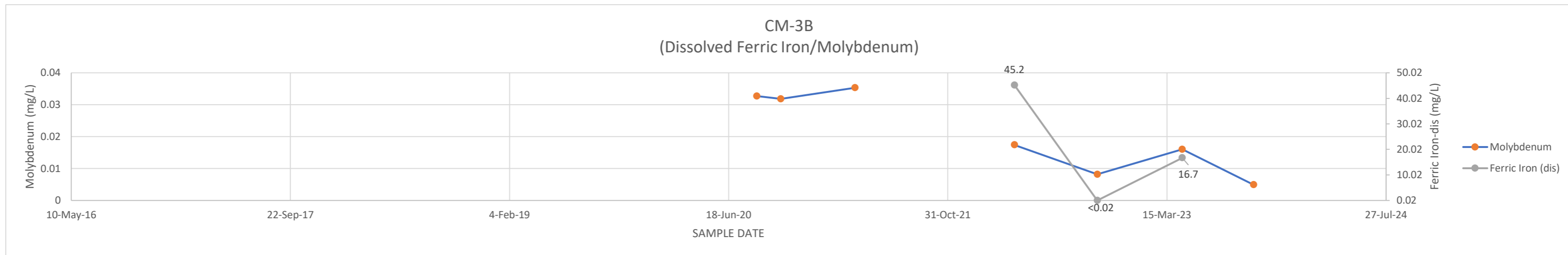
CM-2 DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20		0.00203
1-Apr-21	0.02	0.00161
15-Oct-21	0.237	0.0012
31-Mar-22	0.08	0.00082
6-Oct-22	0.0217	0.0006
11-Apr-23	0.02	0.00152
26-Sep-23	0.052	0.0006



CM-3A DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	0.313	0.0153
14-Oct-21	0.0291	0.00297
28-Mar-22	3.28	0.00656
4-Oct-22	4.82	0.00155
11-Apr-23	0.02	0.00503
27-Sep-23	0.02	0.00187

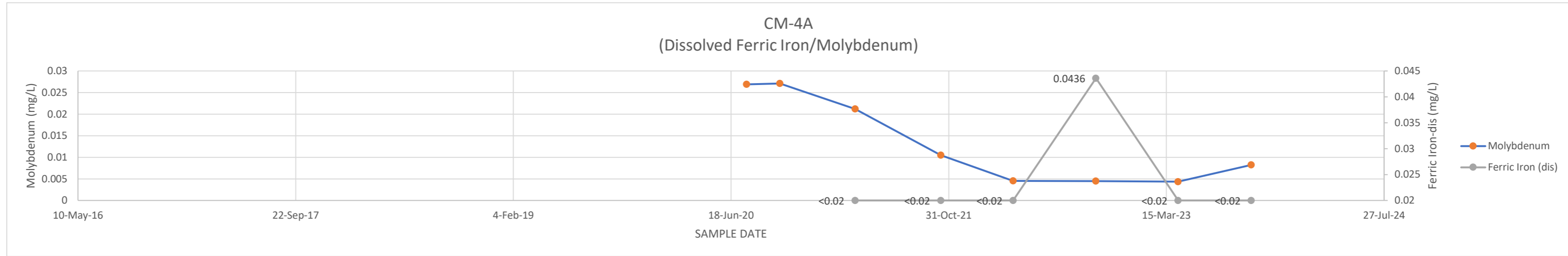


CM-3B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	45.2	0.0174
7-Oct-22	0.02	0.00819
19-Apr-23	16.7	0.016
29-Sep-23		0.0049

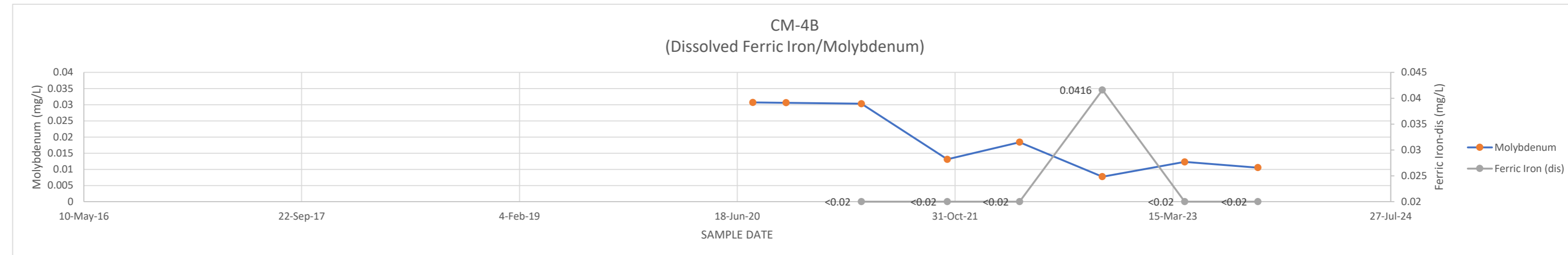


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

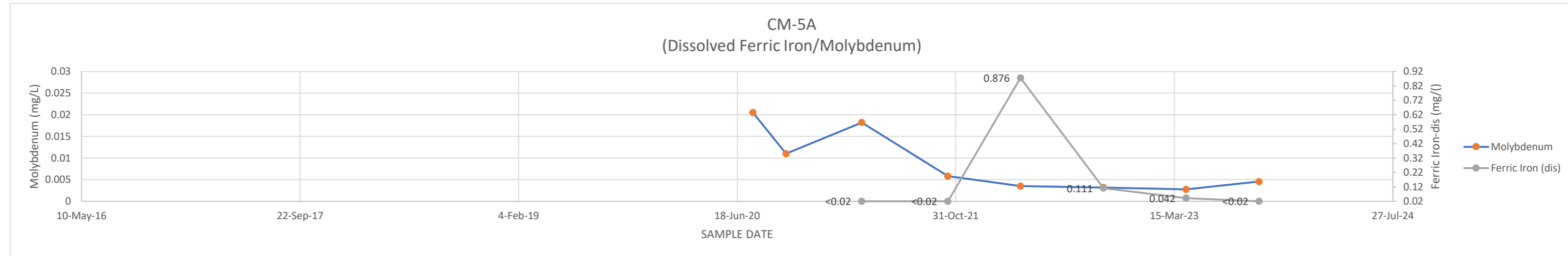
CM-4A	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0269
8-Oct-20			0.0271
30-Mar-21		0.02	0.0212
13-Oct-21		0.02	0.0105
28-Mar-22		0.02	0.00455
4-Oct-22		0.0436	0.00449
11-Apr-23		0.02	0.00436
26-Sep-23		0.02	0.00825



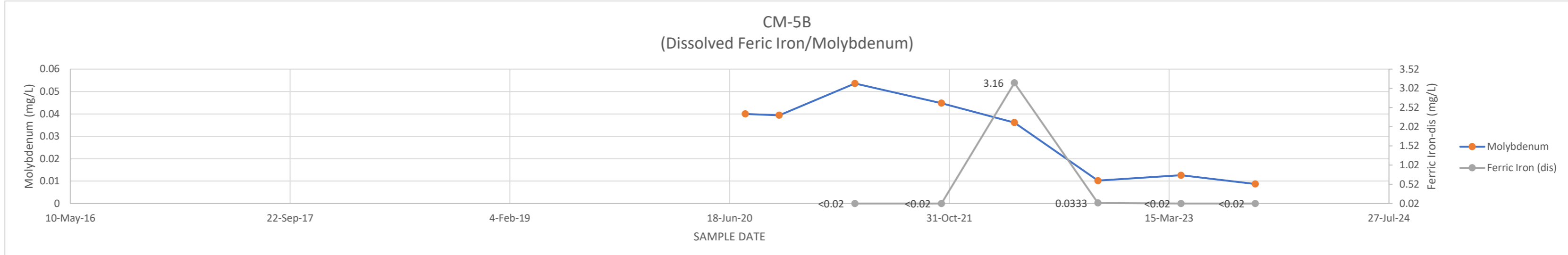
CM-4B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0307
8-Oct-20			0.0306
30-Mar-21		0.02	0.0303
13-Oct-21		0.02	0.0131
28-Mar-22		0.02	0.0184
4-Oct-22		0.0416	0.00771
11-Apr-23		0.02	0.0123
26-Sep-23		0.02	0.0105



CM-5A	DATE	DIS(III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0205
8-Oct-20			0.011
30-Mar-21		0.02	0.0182
13-Oct-21		0.02	0.0058
28-Mar-22		0.876	0.00351
4-Oct-22		0.111	0.00317
11-Apr-23		0.042	0.00276
25-Sep-23		0.02	0.00455



CM-5B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.04
9-Oct-20			0.0394
30-Mar-21		0.02	0.0536
13-Oct-21		0.02	0.0448
28-Mar-22		3.16	0.0361
4-Oct-22		0.0333	0.0102
11-Apr-23		0.02	0.0126
27-Sep-23		0.02	0.00871



Yellow Indicates Reported Below shown value (MDL)