Savannah River NUCLEAR SOLUTIONS℠

United States Department of Energy

Savannah River Site

Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater Operable Unit (OU) (U)

2025 Data and Information

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LIST OF ACRONYMS AND ABBREVIATIONS

1Q	first quarter
2Q	second quarter
3Q	third quarter
4Q	fourth quarter
amsl	above mean sea level
bgs	below ground surface
$CaCO_3$	calcium carbonate
CPRB	Coal Pile Runoff Basin
D&D	deactivation and decommissioning
DAG	D-Area Groundwater
DCSA	D-Area Coal Storage Area
ft	feet
gpm	gallons per minute
m	meters
OU	operable unit
PFAS	per- and polyfluoroalkyl substances
RSER/EE/CA	Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis
SCDES[1]	South Carolina Department of Environmental Services
SRNS	Savannah River Nuclear Solutions, LLC
SRS	Savannah River Site
USEPA	U.S. Environmental Protection Agency
UTRA	Upper Three Runs aquifer

[1] The South Carolina Department of Environmental Services (SCDES) was previously known as South Carolina Department of Health and Environmental Control prior to July 1, 2024.

1.0 INTRODUCTION

The Savannah River Site (SRS) has continued implementation of a groundwater treatability study in D Area to reduce the acidic conditions in groundwater (Savannah River Nuclear Solutions, LLC [SRNS] 2019). The acidic conditions were caused by the storage of coal in the former 484-17D D-Area Coal Storage Area (DCSA) and the subsequent runoff into the 489-D Coal Pile Runoff Basin (CPRB). This data report summarizes all actions and data that have been taken during 2025 as presented and required in the *Treatability Study Work Plan for Groundwater Injection and Discharge Canal Treatment at the D-Area Groundwater (DAG) Operable Unit (OU)* (SRNS 2019) and subsequent data reports (2020 DAG OU Data Report [SRNS 2021a]; 2021 DAG OU Data Report [SRNS 2022a]; 2022 DAG OU Data Report [SRNS 2023a]; 2023 DAG OU Data Report [SRNS 2024]; 2024 DAG OU Data Report [SRNS 2025]).

The coal-fired 484-D Powerhouse was put into operation in 1952 and provided electricity and steam for the D-Area facilities and other areas at SRS. The major ancillary facilities associated with the powerhouse are the former 484-17D DCSA, the 489-D CPRB, and four ash basins (Figure 1). For over 60 years, the 484-17D DCSA was a staging area for coal prior to its use in the powerhouse. Exposure of coal to rainwater caused the degradation of iron sulfide (pyrite, a mineral commonly found in coal) to sulfuric acid. As a result, the soils underneath the 484-17D DCSA, associated storm water runoff, and groundwater underlying the area have been acidified. Due to acidic conditions, metals were leached from the coal and the natural soil minerals in the underlying vadose zone and aquifer. This has resulted in a metals (e.g., aluminum, beryllium, and cobalt) and sulfate groundwater plume in the Upper Three Runs Aquifer (UTRA) (Figures 2 through 5). Currently, acidic groundwater outcrops into the D-Area Effluent Discharge Canal at pH levels generally below 4.

Although maintenance actions conducted in 2012 and 2013 removed virtually all the coal present at the 484-17D DCSA, the vadose zone soils beneath the 484-17D DCSA remained acidified. To address the vadose zone soils, a Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis (RSER/EE/CA) was submitted in 2019 to describe a non-time critical removal action for

neutralization of the soils to a depth of 1.2 meters (m) (4 feet [ft]) at the 484-17D DCSA (SRNS 2018). This removal action was completed in 2020, including a limestone (calcium carbonate [$CaCO_3$]) cobble groundcover to provide for a long-term pH buffering effect that will slowly infiltrate into the vadose zone. Subsequent soil pH sampling was completed in the summer of 2022. A Removal Action Report, summarizing the removal action and pH adjustment of the vadose zone soils, was submitted in December 2022 (SRNS 2022b).

This treatability study is designed to address the continuing acidic conditions in the shallow groundwater beneath the 484-17D DCSA and 489-D CPRB as well as the discharge to surface water in the D-Area Effluent Discharge Canal.

2.0 PROJECT DESCRIPTION

The vadose zone and groundwater within the upper water table aquifer beneath the 484-17D DCSA and the 489-D CPRB are impacted by low pH conditions (< pH of 4) that are expected to last for decades under natural groundwater conditions. The low-pH groundwater is currently outcropping into the D-Area Effluent Discharge Canal, which later converges with Beaver Dam Creek and flows through the Savannah River floodplain to the Savannah River. If the pH of the aquifer can be adjusted to more normal, less acidic conditions, the groundwater and surface water conditions in the D-Area Effluent Discharge Canal would improve.

This study is testing the viability of an approach to remediation that contains two relatively simple elements:

- Add higher pH, potable groundwater sourced from production wells in D Area into the water table aquifer upgradient of the low-pH, metals, and sulfate plumes using injection wells. The injected production well water is naturally buffered, which will aid in the neutralization of acidic conditions currently present in the water table aquifer. The injected production well water will also raise the elevation of the water table that will help displace the low-pH groundwater within the aquifer.
- Treat the low-pH surface water that outcrops into the D-Area Effluent Discharge Canal by adjusting the pH with high purity $CaCO_3$ reactive structure(s) in the form of marble aggregate held in place with riprap.

A general schematic of the DAG OU treatability study is provided in Figure 6.

Injection of Production Well Water

Two potable water production wells (PW 3D and PW 136D) are in D Area northwest of the 484-D Powerhouse. Both production wells were used for operations and are screened approximately 195 to 229 m (640 to 750 ft) below ground surface (bgs) within the McQueen Branch Aquifer. These production wells produce groundwater with a pH of approximately 6.0 to 6.5 containing low, but measurable, levels of carbonate alkalinity. Injecting this water into the upper water table aquifer upgradient of the low-pH, metals, and sulfate plumes will raise the elevation of the water table and increase groundwater flow velocity horizontally to displace the low-pH groundwater currently present in the aquifer. The alkalinity will buffer the system and partially neutralize acidity in the aquifer. Both production wells are artesian and produce over 200 gallons per minute (gpm) each without the use of pumps. The well head pressure of the wells is approximately 5 to 10 pounds per square inch and supports enough flow and pressure to deliver large volumes of water to the proposed injection field, as shown by artesian well flow testing conducted in 2019 on both production wells (SRNS 2021a) as well as the ongoing performance of the groundwater injections and flow from the production well PW 136D.

The production well water has been piped to the 484-17D DCSA and 489-D CPRB and is being injected into the upper water table aquifer with a series of injection wells (Figure 7). A portion of the injection well field has been installed and is described in Section 5.1. Creating a water mound approximately 1.5 m (5 ft) above current conditions is expected to increase the volume of groundwater outcropping into the D-Area Effluent Discharge Canal. The original estimation expected that the production wells can supply enough water to fill the pore space volume (the space between the sediment grains in the vadose zone) to create the 1.5 m (5 ft) water mound in approximately 100 days. The original pore space volume was calculated by multiplying the surface area of the 484-17D DCSA and the 489-D CPRB by the proposed rise in water elevation (1.5 m [5 ft]) by the porosity (30%) and converting to gallons. A total of approximately 19 million gallons was originally estimated to be needed to raise the water table 1.5 m (5 ft). Based on aqueous chemical equilibrium modeling software, a total of 10 pore space volumes of injected potable groundwater could significantly displace and raise the pH levels in the upper water table

within a three-year study period. The production wells are expected to support the groundwater injection study in addition to future remedial activities if needed (SRNS 2016a).

In 2023 SRS revisited the assumptions in the original estimation and determined that the potential area that would need to have the water table raised 1.5 m (5 ft) would need to be expanded to include additional area to the D-Area Effluent Discharge Canal. This would increase the pore volume size from 19 million gallons to 75 million gallons and additionally increase the time needed to inject one pore volume (SRNS 2023a). Again, in early 2024, SRS revisited the assumptions in the previous estimations (Appendix D of the 2024 report [SRNS 2024]). It was determined that the area needed to be expanded again, which increased the pore volume size from 75 million gallons to up to 154.2 million gallons. In addition, the pH of the injected water was determined to be closer to 6.0 rather than 6.5, as used initially. These further assumptions and calculations subsequently increased the number of pore volumes needed and the total time of injection (SRNS 2024, Appendix D). No further changes in the conceptual model or calculations occurred in 2025.

Although the water table is expected to rise approximately 1.5 m (5 ft) into the vadose zone, groundwater injection is not intended to be the only treatment for the vadose zone and is not expected to remove all the acidity from the vadose zone. However, the production well water to be injected within the upper water table aquifer is anticipated to provide an important, but small, buffering interaction to mitigate the low-pH groundwater. The 484-17D DCSA RSER/EE/CA action that added neutralization amendments to the vadose zone soils (SRNS 2018) was intended to reduce acidity in the vadose zone source that has contributed to groundwater contamination. Due to the higher water table condition created by injection, acidity is expected to be gradually released from the now-saturated lower vadose zone soils. However, the lower vadose zone soils that will not become saturated (i.e., remaining above the elevated water table) are not expected to be neutralized or have much change in pH as a result of the groundwater injection treatability study. The lower vadose zone will eventually see the buffering effects of the upper vadose zone amendments through their dissolution and infiltration over time. The combined (or synergistic) effects of the two actions will be apparent from the measurement of the parameters described in the Treatability Study Work Plan (SRNS 2019) and the 484-17D DCSA RSER/EE/CA (SRNS

2018), and the regular DAG OU groundwater and surface water monitoring that occur concurrently.

Reactive Structures in the D-Area Effluent Discharge Canal

An increase in the amount of acidic water outcropping into the D-Area Effluent Discharge Canal is expected to occur as groundwater elevations rise and low-pH groundwater is displaced. Titration test results using surface water from the D-Area Effluent Discharge Canal indicate that contact of surface water with a high purity $CaCO_3$ reactive structure will raise the pH of the surface water to over 6.0 (SRNS 2016b). Figure 8 shows the carbonate consumption rates associated with the neutralization of sulfuric acid and illustrates a titration curve of the test. Although the installation of one reactive structure should be sufficient to raise the pH of the surface water, two reactive structures were installed to further ensure pH adjustment is sufficient over time. $CaCO_3$ marble chips, placed within the stream in two sections downgradient of the acidic groundwater discharge point within the D-Area Effluent Discharge Canal, are expected to allow enough contact time with the surface water for pH adjustment to natural conditions (Figures 6, 8, and 9). The use of high purity $CaCO_3$ (typically greater than 90% $CaCO_3$) limits the introduction of undesirable materials into the surface water (silt, clay, reactive minerals, etc.). The description of installation, the data collected to date, and maintenance associated with the $CaCO_3$ reactive structures are summarized in Section 5.2.

3.0 TEST OBJECTIVES

The objective of this treatability study is to determine the effectiveness of injecting higher-pH potable groundwater to:

- Displace the acidic groundwater out of the upper water table aquifer of the UTRA in the vicinity of and downgradient of the 484-17D DCSA and 489-D CPRB to improve the aquifer conditions (increase the pH), which will reduce or eliminate the dissolved metal groundwater plumes.
- Increase the pH level of the D-Area Effluent Discharge Canal surface water with $CaCO_3$ reactive structures prior to discharge into Beaver Dam Creek, the Savannah River floodplain, and the Savannah River.

The results of the treatability study and the 484-17D DCSA non-time critical removal action will be used to support the development of the DAG OU Corrective Measures Study/Feasibility Study, currently scheduled to be submitted by March 12, 2031.

Monitoring of water table elevations and pH measurements in surrounding monitoring wells and streams, as well as metal analyses of groundwater and surface water, will be used to determine the impact of the production well water injections. Stream flow measurements will document any increases in flow in the D-Area Effluent Discharge Canal from the groundwater injections.

4.0 SAMPLING AND ANALYSIS

Measurements of water table elevations, stream flow, pH and other field parameters, and sample collection for metal and sulfate analyses in groundwater and/or surface water are conducted following the SRS *3Q1 Manual: Environmental Requirements and Program Documents, Procedure 9015: Sampling Groundwater Monitoring Wells, Tanks/Vessels (Sample Ports or Spigots) and Surface Water* (SRNS 2023b).

Table 1 includes the stations that were monitored in 2025 and identifies the sampling frequency and constituents that were monitored. Figure 10 shows the locations of the monitored stations. A total of 40 wells and nine surface water stations outside of the injection field are being monitored. Twenty-three (23) monitoring wells and all nine surface water stations included sampling for metals, sulfate, and field parameters. The remaining seventeen (17) wells are monitored solely for water elevations on a quarterly basis. Starting in second quarter (2Q)2025, sampling was reduced from quarterly to semiannually (conducted in 2Q and fourth quarter[4Q]) for all monitoring wells and five of the surface water stations. Quarterly sampling and monthly pH measurements were continued at the four surface water stations upgradient, in-between, and downgradient of the $CaCO_3$ reactive structures (DSWM-4C, DSWM-6, DSWM-7, and DSWM-9).

A potentiometric surface map of the UTRA during 2Q2025 is provided in Figure 11, and a pre-injection water elevation map from 2Q2020 is provided for comparison in Figure 12. A map of the acidic groundwater with the 2Q2025 pH data is provided in Figure 2, and a map of the 2Q2025 sulfate plume is provided in Figure 4. Pre-injection plume maps from 2Q2020 are provided in Figures 3 and 5.

Stream flow measurements in 2025 were collected in the D-Area Effluent Discharge Canal via a new stream gauge (DSWM-8B) described in section 5.2. Groundwater and surface water samples are monitored for the metals included in the DAG OU monitoring program (Appendix A, Table A-1). Monitoring also includes field pH measurements and other routine field measurements (i.e., oxidation/reduction potential, dissolved oxygen, specific conductance, total alkalinity [as $CaCO_3$], turbidity, water temperature, and water elevation [at wells]).

One round of sampling occurred in 2Q2020 for baseline data before production well water injections began. This data was supplied in the 2020 DAG OU Treatability Study Data Report (SRNS 2021a) and are included in Appendix A, Table A-2 of this report for comparison. Groundwater injections began in March 2022 after preliminary testing of the injection wells. All 2025 analytical and field data are provided in Appendix A, Table A-1 and discussed in Sections 5.1 and 5.2.

Any adjustments needed to the monitoring plan based on field conditions or monitoring results will be discussed with the United States Department of Energy – Savannah River, United States Environmental Protection Agency (USEPA), and South Carolina Department of Environmental Services (SCDES) for approval prior to implementation. The 2Q and 4Q DAG OU monitoring will not be impacted by the treatability study and will continue as normally scheduled. As field conditions warrant, adjustments such as varying injection flow rates or well re-development could also be employed. Any permanent discontinuation of an injection well will be communicated with USEPA and SCDES.

5.0 TREATABILITY STUDY PROGRESS AND DATA

Due to the discovery of unfavorable injection sediments within the UTRA, potential interferences with deactivation & decommissioning (D&D) activities in D Area, and delays in field personnel availability due to COVID-19 management practices, a stepped approach has been taken with implementation of the DAG OU treatability study. Ten (10) injection wells have been installed; five were installed during 2020 (DGI007, DGI010, DGI014, DGI016, and DGI019), and five were installed during 2021 (DGI011, DGI012, DGI013, DGI015, and DGI017) (Figure 7). An existing groundwater well, DCB 2A, was also used to inject water. A letter with the request to operate as

part of the Underground Injection Control Permit, including the well installation reports, was submitted to SCDES and copied to USEPA after installation of the 10 new injection wells (SRNS 2021b). The injection wells were originally planned to be screened within the upper water table aquifer (located in the upper zone of the UTRA in D Area) at approximately 3.7 – 9.8 m (12 – 32 ft) bgs. However, due to the abundance of clays, sandy clays, and silty sands, especially near the 484-17D DCSA, the wells were installed deeper within the mid to lower zone of the UTRA (Table 2). A cross-sectional view of the sediments including all 10 installed injection wells is shown in Figures 13 and 14. Additionally, the two $CaCO_3$ reactive structures were installed within the D-Area Effluent Discharge Canal in 2020. Ongoing monthly monitoring of pH and metal analyses within the D-Area Effluent Discharge Canal was performed upgradient, between, and downgradient of the $CaCO_3$ reactive structures to determine the efficacy of both the $CaCO_3$ material and structure design. Before groundwater injections began, SRS collected per- and polyfluoroalkyl substances (PFAS) samples from both production wells PW 3D and PW 136D on December 17, 2021. Samples were analyzed using method EPA533 for 25 constituents. Results from both wells were non-detect for all PFAS constituents. The complete sample results were provided in Appendix A, Table A-2 of the January 2023 Data Report (SRNS 2023a).

Details on each portion of the treatability study project are provided below.

5.1 Injection Piping System

Due to COVID-19 related delays and material supply issues, the procurement and installation of the piping system did not start until December 2021. The main piping system consists of 6-inch and 4-inch high-density polyethylene pipes, and the installation was completed on February 24, 2022. Figure 7 shows the general layout of the piping system from PW 136D to the injection wells, Figure 15 displays the installation of the piping system, and Figure 16 displays the typical piping setup at the injection wells. Bi-weekly inspections of the passive piping and injection system were conducted, which included taking flow totalizer readings at each of the injection wells. Inspections were reduced to weekly starting on November 17, 2025. Additional information associated with the preliminary testing of the injection wells with the piping system can be found in the January 2023 DAG Treatability Study Report (SRNS 2023a).

5.1.1 Groundwater Injection Observations

After completion of the initial testing at each of the injection wells, continuous groundwater injection into 11 wells (all 10 new wells and monitoring well DCB 2A, which was already present) at once was initiated on March 21, 2022. Initially the injection flow rate was targeted at 5 gpm at each well to observe how the wells operated over time. After three weeks of injections, with most of the 11 injection wells continuing to operate at 5 gpm, the target injection rate was increased to 10 gpm. In late April 2023, due to continued injection operations being successful, targeted injection rates were increased to 12 gpm. Well DGI014 displayed a decrease in flow when the other wells were increased, likely due to less water pressure to that well. Additionally, there were ongoing issues with water bubbling up to the surface at well DCB 2A, and the decision was made to discontinue injections into DCB 2A. The flow valve was shut off at DCB 2A in April 2023, and no additional issues have been observed.

On October 16, 2024, 18 gpm injection rates were attempted at each injection well. The main valve at the PW 136D production well was fully opened and the individual injection well isolation valves were adjusted to try to target approximately 18 gpm. Flow at lower performing injection wells (DGI-011, DGI-012) and at DGI-017 did not increase. Flow at DGI010, DGI013, and DG014 slightly decreased, likely due to changing pressures from adjustments of flow at other injection wells. Injection wells DGI016 and DGI019 showed the most increase in flow. Other wells did see a response, although they were not able to achieve a flow rate near 18 gpm.

All injection well isolation valves have been fully opened (except DGI016 at ~80% opened), indicating that the current piping and injection system is nearing its full capacity at the current artesian pressure conditions. It is not expected that adding the additional production well, PW 3D, to the current piping system would be greatly beneficial as the piping system will limit the total amount of flow. The initial testing of the production wells could supply up to approximately 300 gpm (under unrestricted flow), however the addition of the ~3,700 ft piping system and injection wells has reduced the max flow to approximately 100 gpm.

Figure 17 shows the flow rates for each of the injection wells (the electronic data set is provided in the Excel table, tab “Injection Data”). The majority of the wells (7 out of 11) have been able to

sustain the increased injection rates. Injections into the 10 6-inch injection wells have been continuous since injections began in March 2022. As previously stated, injections were discontinued into DCB 2A due to water bubbling up to the ground surface. Injection wells DGI011 and DGI012 accept less than 2 gpm and continue to underperform.

Figure 18 shows the cumulative groundwater injection volume. During 2025, a total of approximately 53.4 million gallons were injected into the UTRA. This makes a total of approximately 178 million gallons injected since March 2022. At current injection rates, it takes approximately 3 years to inject the early 2024 refined estimate of one pore volume (approximately 154.2 million gallons) of water. The 10 active injection wells were achieving a total injection rate of 100.6 gpm as of the end of December 2025.

5.1.2 Water Level Observations

Appendix B presents the hydrographs at the monitoring wells over the past 13 years. Rainfall during 2025 was slightly above average with 50 inches of rain but was approximately 4 inches lower than 2024 levels. Water elevations decreased from 2020 to 2022, but then increased in 2023 through 2025 due to above average rainfall in those three years in wells upgradient or side gradient of the injection wells; however, the water elevations in the area around the 484-17D DCSA and 489-D CPRB are slightly more elevated over the injection period (Figures 11 and 12). All monitoring wells display similar water elevations in 2025 as compared to 2024 regardless of whether they are near/downgradient of the injection wells or outside/upgradient of the injection area (Appendix B). The wells near the injection wells have shown a continued increase in water elevation from the continuous groundwater injections (e.g., DCB 5A, DCB 6, DCB 7, DCB 8, DCB 49, DCB087A/C). A majority of downgradient wells have not displayed a significant increase in water elevation; potentially only up to approximately a 1-ft increase. Well DCB 8 shows the highest increase in water elevation (a 5-ft increase); however, this well is located in the area of groundwater injections near injection well DGI016.

It is evident from the hydrographs that the water levels in downgradient wells have not increased close to the target 5 feet of increase the study was hoping to achieve.

5.1.3 Groundwater pH and Analytical Observations

The recorded pH levels at the monitoring wells are presented in Appendix C. The pH levels do not show any significant increase after about 1,400 days of groundwater injection of 178 million gallons (slightly more than one pore volume of the revised conceptual estimate). At stations directly downgradient from the injection area pH levels remain consistent at wells DCB 4A, DCB 6, DCB 21A/B/C, DCB 34A/C, DCB 37A/C, and DCB087A (Appendix C). One exception is in the recently installed well DCB087C, where pH was 5.9 in 2Q25; however, this well is screened at the bottom of the UTRA where pH levels are naturally higher. Increases in pH are likely to take additional time as overall buildup of water within the aquifer and movement of the groundwater aquifer is gradual, and residual acidity within the aquifer sediments are likely contributing to ongoing acidity.

Groundwater and surface water metal analyses were conducted quarterly after groundwater injections began, and semiannually starting in 2Q2025. These results, as shown in Table A-1 and in the Appendix C time-series plots for pH, aluminum, beryllium, cobalt, iron, nickel, and sulfate, also do not yet show any overall significant change in concentrations as a result of the groundwater injections, consistent with lack of changes in observed in pH values. Once again, the exception is at well DCB087C, where metals and sulfate are closer to background levels.

A few decreasing trends are noted in 1 to 5 monitoring wells (i.e., DCB 6, DCB 21A, DCB 35A, DCB 34C, DCB087A) for aluminum, beryllium, cobalt, nickel, and/or sulfate (Appendix C). However, it cannot be determined if these decreases have occurred due to dilution factors from the groundwater injections or from reductions in additional dissolved metals loading from the 484-17D DCSA and 489-D CPRB due to previous removal actions at those units.

5.1.4 Overall Observations of Groundwater Injections

Based on the groundwater injection flow rates and totals observed in Figures 17 and 18, and water elevation and contaminant concentration trends presented in Appendices B and C, the following overall observations can be made:

1. Groundwater injections are working as conceptualized in most of the injection wells, though deeper than originally designed based on observed site-specific hydrogeologic properties. The UTRA aquifer formation is accepting groundwater without much reduction in injection rates over time.

2. The water levels in downgradient wells have not risen as much as anticipated, with only a 1 ft increase in water elevations being observed in general away from the injection line.

3. Neither pH levels nor metal concentrations are showing significant changes from the background (pre-injection) levels at most monitoring stations.

The conceptual design was revisited and recalculated in early 2024 (as presented in Appendix D of the June 2024 Data Report [SRNS 2024]). Based on similar observations from 2022 through 2024 data and the 2025 observations cited above, the original pore volume calculations were likely to have been underestimated. Taking into account the total low-pH plume area (i.e., not just the immediate area at the 484-17D DCSA and 489-D CPRB and area to the D-Area Effluent Discharge Canal), a reanalysis estimates a pore volume of approximately 154.2 million gallons as compared to the original estimate of 19 million gallons, as well as the 2023 estimate of 75 million gallons. At an injection rate of 120 gpm total and a pore volume of approximately 154.2 million gallons, it will take approximately 110 years to achieve a pH increase to 5.5. If the target pH is lowered to 5, then it is estimated to take approximately 24 years of groundwater injection without the addition of pH buffering agents (base).

Based on the results of the groundwater injections over the last nearly four years (45 months), with the additional increase in injection flow rate attempted in October 2024 from approximately 84 gpm to 100 gpm, SRS evaluated the possibility of adding in PW 3D to the piping system. It was determined that the addition would have little effect on the overall injection rate due to the limitation of the piping system and injections wells. It appears that significantly increasing the pH (to 5 or 5.5) in the UTRA will take much longer than originally anticipated (24 to 110 years compared to 3 years). SRS proposes to cease the groundwater injections and use the data collected to date to support the upcoming RFI/RI CMS/FS, which is currently scheduled to be submitted by March 12, 2031. SRS will continue to collect water elevation data at the DAG OU Treatability

Study monitoring wells DCB 8, DCB 3A, DCB 33B, DCB 36A/C, DCB 37A, and DCB087A/C quarterly for a year and a half (through 4Q2027) under DAG OU to monitor changes due to stopping the groundwater injections.

5.2 $CaCO_3$ Reactive Structures

Due to the ongoing and further expected acidic conditions within the D-Area Effluent Discharge Canal, two $CaCO_3$ reactive structures were installed during 2020. High purity $CaCO_3$ marble chips were installed within the canal with riprap installed on the downstream side to hold the chips in place as depicted in Figure 9, Original Design. To perform initial testing of the design and function of the structures, the structures were installed at separate times. One reactive structure was installed in February 2020, and a surface water pH increase was observed following its installation. The second reactive structure was installed downgradient of the first structure in October 2020 and a further increase in pH was observed.

Since construction of the reactive structures, it has been observed that during periods of prolonged or heavy rains, stream flow increases and surface water tops over the reactive structures. This is part of the design not to restrict the stream during flooding events; however, this consequently also reduces the contact time of the surface water with the reactive structures. Additionally, increased sediment and leaf drop litter over the previous years have been observed to create a layer of detritus that limits stream flow through the $CaCO_3$ reactive structures. As a result, surface water was overtopping the $CaCO_3$ reactive structures, even in low rainfall periods. In effect, the efficacy of the reactive structures has declined in the previous years.

To address this, the original reactive structures were intentionally breached on December 11, 2023, to eliminate the damming effects in the D-Area Effluent Discharge Canal. Subsequently in the first half of March 2024, both reactive structures were redesigned, and one was relocated, to improve performance and limit detritus buildup. The new reactive structures were constructed by installing limestone riprap on the upstream side to help break up and block detritus from clogging up the larger marble aggregate. It is expected that use of larger marble aggregate instead of small chips will allow more water flow over time. A small amount of limestone riprap was also added at the downstream side of the reactive structures to help minimize displacement of the aggregate

during higher flow events (Figure 9, 2024 Redesign). Limestone riprap was used instead of granitic rock to aid in pH adjustment of the surface water. One reactive structure was constructed at the location of the original first reactive structure in-between surface water stations DSWM-8 and DSWM-8A, and the other reactive structure was constructed downstream of the confluence of the tributary canal with the main canal between surface water stations DSWM-4C and DSWM-7 (Figure 21). Photographs of the new reactive structures are provided in Figure 22. In addition to the redesign, reactive structure maintenance was conducted on December 11, 2024, which included removal of detritus, mixing and adding of marble aggregate, and installation of additional limestone riprap as needed. Additional semi-annual maintenance activities are planned to remove and reduce debris that limit water flow through the structures. Additional maintenance activities may also be conducted due to heavy storms/weather events. The semi-annual maintenance planned for 2025 was skipped; however, the pH levels in the downgradient surface water station (DSWM-9) was being adjusted above 5 for the majority of the months (Figure 20). Maintenance was later conducted on March 9, 2026.

As a result of the rearranged reactive structures, quarterly surface water sampling and monthly pH monitoring locations were adjusted accordingly. Surface water station DSWM-8A, which was located between the original reactive structures, was replaced with DSWM-7 located between the reworked reactive structures. DSWM-8 was replaced with stations DSWM-4C and DSWM-6 as the upgradient monitoring stations. Station DSWM-9 continues to monitor downgradient of both structures (Figure 10). Figure 20 displays the field pH measurements collected monthly upgradient, between, and downgradient of the two $CaCO_3$ reactive structures at these locations. Surface water pH increases are occurring as water flows through the reactive structures, with the pH increasing after each structure; however, notice only one of the 12 pH measurement events in 2023 were >5. After the reactive structures were reworked in March 2024, pH measurements in between the reactive structures increased slightly compared to previous years, and pH measurements taken downgradient were observed to be above 5 except only once in 2024 (April 11, 2024 with a measurement of 4.7) and 3 times in 2025 (February 24, 2025: 4.6; March 12, 2025: 4.1; and October 29, 2025: 4.8).

Due to inconsistencies with collecting stream flow measurements and to reduce potential errors, SRS installed a permanent and continual (every 15 minutes) electronic stream flow data logger (DSMW-8B) downgradient of the downstream reactive structure on September 13, 2024. Calibration of the stream flow gauge was conducted through October 9, 2024, thus readings after this date are considered accurate. This allows constant real-time monitoring of the flow within the D-Area Effluent Discharge Canal and will be more useful in trending measurements and identifying changes that may occur from the groundwater injections or rain events. Note that the sensor experienced a malfunction starting on July 29, 2025, and was fixed and put back in service on September 23, 2025.

Stream flow measurements taken with the continuous monitoring station DSWM-8B during 2025 are presented in Figure 19. As expected, stream flow rates fluctuate with site conditions and rain events. The data is inconclusive if stream flows have increased due to the groundwater injections, especially since the station was installed over two years after injections started. However, water elevations within the D-Area Effluent Discharge Canal and Beaver Dam Creek do not appear to be different than in the past. Base flow typically ranged from ~100-200 gpm, with 9 rainfall events that resulted in flows exceeding 1000 gpm. Stream flow measurements will continue to be collected autonomously at electronic stream gauge DSWM-8B.

Appendix A, Table A-1 contains all the surface water data analytical and field results from the 2025 sampling. Appendix A, Table A-2 includes the 2Q2020 pre-injection analytical and field results for comparison. Some decreases in surface water metal concentrations were observed as a result of the pH changes in surface water. Figures 23 and 24 display concentrations of pH vs aluminum, beryllium, sulfate, cobalt, and nickel at surface water stations DSWM-4C, DSWM-6, DSWM-7, DSWM-8, DSWM-8A, and DSWM-9 from 2019 through 2025. The increases in pH correlate with decreases in surface water concentrations for these metals and sulfate concentrations.

6.0 FUTURE DATA COLLECTION AND REPORTING

Sample collection associated with the D-Area Treatability Study will cease with the discontinuation of groundwater injections. However, groundwater and surface water metal and sulfate sampling and analysis will continue annually under the regular DAG OU monitoring as

documented in the Second Work Plan Addendum for the DAG OU (SRNS 2026). SRS will continue to collect water elevation data at the 8 wells previously identified (DCB 8, DCB 3A, DCB 33B, DCB 36A/C, DCB 37A, and DCB087A/C) quarterly for a year and a half (through 4Q2027) under DAG OU to monitor changes due to stopping the groundwater injections.

The $CaCO_3$ reactive structures in the D-Area Effluent Discharge Canal will remain in place and maintenance will continue to be conducted on the structures, as needed. Monitoring of surface water pH at the four surface water stations upgradient, in-between, and downgradient of the $CaCO_3$ reactive structures (DSWM-4C, DSWM-6, DSWM-7, and DSWM-9) will continue to be conducted quarterly. The status of the $CaCO_3$ reactive structures and pH monitoring results will be included in future DAG OU monitoring reports, which are submitted annually.

7.0 SUMMARY

Baseline sampling was conducted for the treatability study monitoring network in 2Q2020. Ten of the proposed 20 injection wells were installed in addition to existing well DCB 2A. Groundwater injections have been continuous since injections began in March 2022, and production well water is currently being injected at approximately a combined 100 gpm. This rate is lower than the 120-gpm total flow rate conceptualized in the original design; however, the majority of the injection wells have been able to accept more water than anticipated, which has compensated for installing half (10 of 20) of the proposed injection wells. A stepped approach has been taken with the DAG OU treatability study, and another increase in injection flow rates was attempted in October 2024, however, now with the main valve fully opened, it appears the piping/injection system is reaching its maximum flow possible with the current setup. SRS evaluated the possibility of adding in PW 3D to the piping system and determined that the addition would have little effect on the overall injection rate due to the limitation of the piping system and injections wells.

Rainfall during 2025 was above average, but less than 2024 levels. However, groundwater elevations in 2025 were similar to levels in 2024 which showed an overall increase in water elevations from 2021 and 2022 when water levels dropped from the 2020 levels. Water levels have increased less than the 5 feet expected in downgradient monitoring wells, with an

approximately 1 ft increase being achieved in downgradient wells. Groundwater injection over the initial nearly four years (45 months) shows that over one of the 2024 revised conceptual estimate of one pore volume of 154.2 million gallons has been injected into the aquifer formation (i.e., actual injection was approximately 178 million gallons). At an injection rate of 120 gpm total, it will take approximately 110 years to accomplish a pH increase to 5.5 over the entire plume. If the target pH is lowered to 5, then it is estimated to take approximately 24 years of groundwater injection. The addition of a pH buffering agents (base) would reduce that timeframe. No major changes in groundwater pH and metals have been observed as a result of the groundwater injections.

Monthly monitoring of surface water pH in the D-Area Effluent Discharge Canal is occurring upgradient, between, and downgradient of the $CaCO_3$ reactive structures, with quarterly sampling for metals analyses also taking place. The $CaCO_3$ reactive structures in the D-Area Effluent Discharge Canal are raising the pH of the surface water. However, due to sediment/leaf detritus build up, water flow through the structures had been greatly diminished in 2022 and 2023, and the pH was not being raised to above the target level of 5. In March 2024, redesigned reactive structures were constructed with limestone riprap and larger marble aggregate to further help with water flow and pH adjustments. The subsequent surface water data indicates the efficacy of the structures has been improved and pH adjustment is occurring. Routine semi-annual maintenance of the reactive structures will be implemented to minimize sediment and leaf detritus build-up on the new reactive structures to allow water flow through the structures. Surface water sampling has indicated some metal (e.g., aluminum, beryllium, nickel, and cobalt) and sulfate concentrations in surface water inversely decrease with increases in pH levels.

The anticipated length of the treatability study was originally estimated at three years of groundwater injection. Groundwater injections have occurred for nearly four years (45 months as of December 2025). However, further reevaluation of the hydrological properties and data collected to date indicates that it's likely to take at least 24 to 110 years of injection to substantially change the aquifer conditions. Due to the anticipated long-term need for injections of untreated groundwater, SRS is proposing to discontinue groundwater injections. The sample collection associated with the D-Area Treatability Study will cease with the discontinuation of groundwater

injections. However, groundwater and surface water metal and sulfate sampling and analysis will continue annually under the regular DAG OU monitoring as documented in the Second Work Plan Addendum for the DAG OU (SRNS 2026). SRS will continue to collect water elevation data at eight wells (DCB 8, DCB 3A, DCB 33B, DCB 36A/C, DCB 37A, and DCB087A/C) quarterly for a year and a half (through 4Q2027) under DAG OU to monitor changes due to stopping the groundwater injections. The data collected as part of the DAG OU Treatability Study will support the upcoming RFI/RI CMS/FS, which is currently scheduled to be submitted by March 12, 2031.

The $CaCO_3$ reactive structures in the D-Area Effluent Discharge Canal will remain in place and maintenance will continue to be conducted on the structures, as needed. Monitoring of surface water pH at the four surface water stations upgradient, in-between, and downgradient of the $CaCO_3$ reactive structures (DSWM-4C, DSWM-6, DSWM-7, and DSWM-9) will continue to be conducted quarterly. The status of the $CaCO_3$ reactive structures and pH monitoring results will be included in future DAG OU monitoring reports, which are submitted annually. This is the last D-Area Treatability Study report to be submitted.

8.0 REFERENCES

SRNS, 2016a. *Remediation of the Acidic Groundwater Impacting the Discharge Canal in D Area*; Interoffice Memo, Savannah River Site, October, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2016b. *Feasibility Study of the Reactive Structures for the D-Area Discharge Canal*; ERD-EN-2016-0042, Savannah River Site, Rev. 0, October, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2018. *Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis (RSER/EE/CA) for the D-Area Coal Storage Area (484-17D) (U)*, SRNS-RP-2018-00813, Savannah River Site, Rev. 0, November, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2019. *Treatability Study Work Plan for Groundwater Injection and Discharge Canal Treatment at the D-Area Groundwater (OU) (U)*, SRNS-TR-2018-00128, Savannah River Site, Rev. 1, January, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2021a. *Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater (OU) (U)*, SRNS-TR-2021-00005, Savannah River Site, Rev. 0, January, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2021b. Letter, Amy J. Meyer (SRNS) to Courtney Milledge (SCDES), *Submittal of the Request for the Underground Injection Control Permit to Operate (Permit #SCHE03020572) for Injection of Groundwater at the D-Area Groundwater Operable Unit – Part 1*, SRNS-J2000-2021-00815, dated October 7, 2021, Savannah River Nuclear Solutions, LLC, Savannah River Site, Aiken, SC

SRNS, 2022a. *Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater (OU) (U) – 2021 Data and Information*, SRNS-TR-2022-00026, Savannah River Site, Rev. 0, January, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2022b. *Removal Action Report for the D-Area Coal Storage Area (484-17D) (U)*, SRNS-RP-2022-00071, Savannah River Site, Rev. 1, November, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2023a. *Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater (OU) (U) – 2022 Data and Information*, SRNS-TR-2023-00009, Savannah River Site, Rev. 0, January, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2023b. *SRS 3Q1 Manual, Environmental Requirements and Program Documents, Sampling Groundwater Monitoring Wells, Tanks/Vessels (Sample Ports or Spigots) and Surface Water*, SRS 3Q1 Manual Procedure 9015, Savannah River Site, Rev date: 2/21/2023, Savannah River Nuclear Solutions LLC, Aiken SC

SRNS, 2024. *Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater (OU) (U) – 2023 Data and Information*, SRNS-TR-2024-00261, Savannah River Site, Rev. 0, June, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2025. *Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater (OU) (U) – 2024 Data and Information*, SRNS-TR-2025-00218, Savannah River Site, Rev. 0, May, Savannah River Nuclear Solutions LLC, Aiken, SC

SRNS, 2026. *RCRA Facility Investigation/Remedial Investigation Second Work Plan Addendum for the D-Area Groundwater Operable Unit (D-Area Upgradient Sources) (U)*, SRNS-RP-2025-01503, Savannah River Site, Rev. 0, January, Savannah River Nuclear Solutions LLC, Aiken, SC

Table 1. Required D-Area Treatability Study 2025 Monitoring Network and Sampling Schedule

Monitoring Well Information							Sampling Frequency				
Station	Station Type	Ground Elevation (ft amsl)	Total Depth (ft bgs)	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (ft amsl)	1Q2025	2Q2025	3Q2025	4Q2025	Monthly
PW 3D	Production Well	128.75	736	10, 50	670 - 680, 690 - 730	-541.25 - -551.25, -651.25 - -601.25					
PW 136D	Production Well	132.5	765	30, 40	640 - 670, 710 - 750	-507.5 - -537.5, -577.5 - -617.5	Pressure Reading	Pressure Reading	Pressure Reading	Pressure Reading	
DCB 3A	Monitoring Well	131.2	36.8	30	5 - 35	126.2 - 96.2	WL	WL	WL	WL	
DCB 4A	Monitoring Well	127.5	37	30	5 - 35	122.5 - 92.5	M	M	WL	M	
DCB 5A	Monitoring Well	120.9	37	30	5 - 35	115.9 - 85.9	WL	WL	WL	WL	
DCB 6	Monitoring Well	131.5	23.7	20	2 - 22	129.5 - 109.5	M	M	WL	M	
DCB 7	Monitoring Well	130.9	23.9	20	2 - 22	128.9 - 108.9	WL	WL	WL	WL	
DCB 8	Monitoring Well	134.8	26.5	20	4.5 - 24.5	130.3 - 110.3	M	M	WL	M	
DCB 9	Monitoring Well	120.2	25	20	2.9 - 22.9	117.3 - 97.3	WL	WL	WL	WL	
DCB 10	Monitoring Well	121.8	24.1	20	2 - 22	119.8 - 99.8	M	M	WL	M	
DCB 21A	Monitoring Well	126.6	20	10	6.5 - 16.5	120.1 - 110.1	M	M	WL	M	
DCB 21B	Monitoring Well	126.7	27	2.5	22 - 24.5	104.7 - 102.2	M	M	WL	M	
DCB 21C	Monitoring Well	126.8	44	2.5	36 - 38.5	90.8 - 88.3	M	M	WL	M	
DCB 22A	Monitoring Well	125.3	18.5	10	5.5 - 15.5	119.8 - 109.8	M	M	WL	M	
DCB 23A	Monitoring Well	119.2	16	10	3.5 - 13.5	115.7 - 105.7	WL	WL	WL	WL	
DCB 23B	Monitoring Well	119.1	27.5	2.5	22.5 - 25	96.6 - 94.1	M	M	WL	M	
DCB 23C	Monitoring Well	119.1	35	2.5	30 - 32.5	89.1 - 86.6	M	M	WL	M	
DCB 26AR	Monitoring Well	122.7	26	14.3	11 - 25.3	111.7 - 97.4	WL	WL	WL	WL	
DCB 33B	Monitoring Well	140.5	37	10	26.5 - 36.5	114 - 104	WL	WL	WL	WL	
DCB 34A	Monitoring Well	128	26	10	16 - 26	112 - 102	M	M	WL	M	
DCB 34C	Monitoring Well	127.6	59.3	10	46.8 - 56.8	80.8 - 70.8	M	M	WL	M	
DCB 35A	Monitoring Well	118.2	25	10	14.8 - 24.8	103.4 - 93.4	M	M	WL	M	
DCB 35C	Monitoring Well	118	44	10	33.8 - 43.8	84.2 - 74.2	M	M	WL	M	
DCB 36A	Monitoring Well	123.9	20	10	9.8 - 19.8	114.1 - 104.1	M	M	WL	M	
DCB 36C	Monitoring Well	123.8	37	10	26.5 - 36.5	97.3 - 87.3	M	M	WL	M	

M = Metals and field parameters (oxidation/reduction potential, dissolved oxygen, specific conductance, total alkalnity [as $CaCO_3$], turbidity, water temperature, and water elevation [at wells]
WL = Water elevation measurement only
pH = pH reading of surface water only for performance monitoring of the reactive structures
amsl = above mean sea level

Table 1. Required D-Area Treatability Study 2025 Monitoring Network and Sampling Schedule *(continued/end)*

Monitoring Well Information							Sampling Frequency				
Station	Station Type	Ground Elevation (ft amsl)	Total Depth (ft bgs)	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (ft amsl)	1Q2025	2Q2025	3Q2025	4Q2025	Monthly
DCB 37A	Monitoring Well	126.5	25.9	10	15.7 - 25.7	110.8 - 100.8	M	M	WL	M	
DCB 41A	Monitoring Well	130.6	33	10	22.3 - 32.32	108.28 - 98.28	WL	WL	WL	WL	
DCB 44A	Monitoring Well	134.6	26.5	15	11.3 - 26.3	123.3 - 108.3	WL	WL	WL	WL	
DCB 45A	Monitoring Well	134.9	25.2	15	9.7 - 24.7	125.2 - 110.2	WL	WL	WL	WL	
DCB 49	Monitoring Well	122	16.5	12.5	3.35 - 15.85	118.65 - 106.15	WL	WL	WL	WL	
DCB 51A	Monitoring Well	157.69	157.69	10	19.37 - 29.37	138.32 - 128.32	WL	WL	WL	WL	
DCB 51D	Monitoring Well	157.57	103.65	10.05	93.3 - 103.35	64.27 - 54.22	WL	WL	WL	WL	
DCB 53	Monitoring Well	113.58	41	10.1	26 - 36.1	87.58 - 77.48	WL	WL	WL	WL	
DCB 54	Monitoring Well	111.13	44.85	10.05	34.5 - 44.55	76.63 - 66.58	WL	WL	WL	WL	
DCB 70A	Monitoring Well	116.49	12.5	10	1.8 - 11.8	114.69 - 104.69	M	M	WL	M	
DCB077	Monitoring Well	127.7	31.7	20	9.7 - 29.7	118 - 98	M	M	WL	M	
DCB078	Monitoring Well	126.7	41.7	20	19.7 - 39.7	107 - 87	M	M	WL	M	
DCB079	Monitoring Well	127.8	45.7	20	23.7 - 43.7	104.1 - 84.1	WL	WL	WL	WL	
DCB080	Monitoring Well	116.1	35.1	20	13.1 - 33.1	103 - 83	WL	WL	WL	WL	
DCB087A	Monitoring Well	131.81	30.4	10	18 - 28	113.81 - 103.81	M	M	WL	M	
DCB087C	Monitoring Well	131.24	74.2	10	61.9 - 71.9	69.34 - 59.34	M	M	WL	M	
DCB087D	Monitoring Well	132	117.3	10	105 - 115	27 - 37	M	M	WL	M	
DSWM-4	Surface Water Station	--	--	--	--	--	M	M		M	
DSWM-4A	Surface Water Station	--	--	--	--	--	M	M		M	
DSWM-4B	Surface Water Station	--	--	--	--	--	M	M		M	
DSWM-4C	Surface Water Station	--	--	--	--	--	M	M		M	pH
DSWM-5	Surface Water Station	--	--	--	--	--	M	M		M	
DSWM-6	Surface Water Station	--	--	--	--	--	M	M		M	pH
DSWM-7	Surface Water Station	--	--	--	--	--	M	M		M	pH
DSWM-9	Surface Water Station	--	--	--	--	--	M	M		M	pH
DSWM-10	Surface Water Station	--	--	--	--	--	M	M		M	

M = Metals and field parameters (oxidation/reduction potential, dissolved oxygen, specific conductance, total alkalnity [as $CaCO_3$], turbidity, water temperature, and water elevation [at wells]
WL = Water elevation measurement only
pH = pH reading of surface water only for performance monitoring of the reactive structures
amsl = above mean sea level

Table 2. D-Area Injection Well Screen Zone Depths

Injection Well	Screen Zone (ft bgs)	Screen Zone (ft amsl)	Month/Year Installed
DGI007	21.49 - 42.41	112.91 - 91.99	December/2019
DGI010	30.51 - 51.43	103.22 - 82.3	December/2019
DGI011	24.2 - 45.1	108.67 - 87.77	February/2021
DGI012	26.6 - 47.5	105.57 - 84.64	February/2021
DGI013	34.1 - 55.0	97.42 - 76.52	February/2021
DGI014	34.58 - 55.5	97.73 - 76.81	February/2020
DGI015	35.1 - 56.0	97.47 - 76.57	February/2021
DGI016	34.26 - 55.18	98.24 - 77.32	January/2020
DGI017	34.1 - 55.0	98.35 - 77.45	March/2021
DGI019	23.72 - 44.64	108.25 - 87.33	January/2020
DCB 2A	5.0 – 35.0	127.4 - 97.4	March/1984

Installed during 2020
Installed during 2021
Existing well

amsl- above mean sea level

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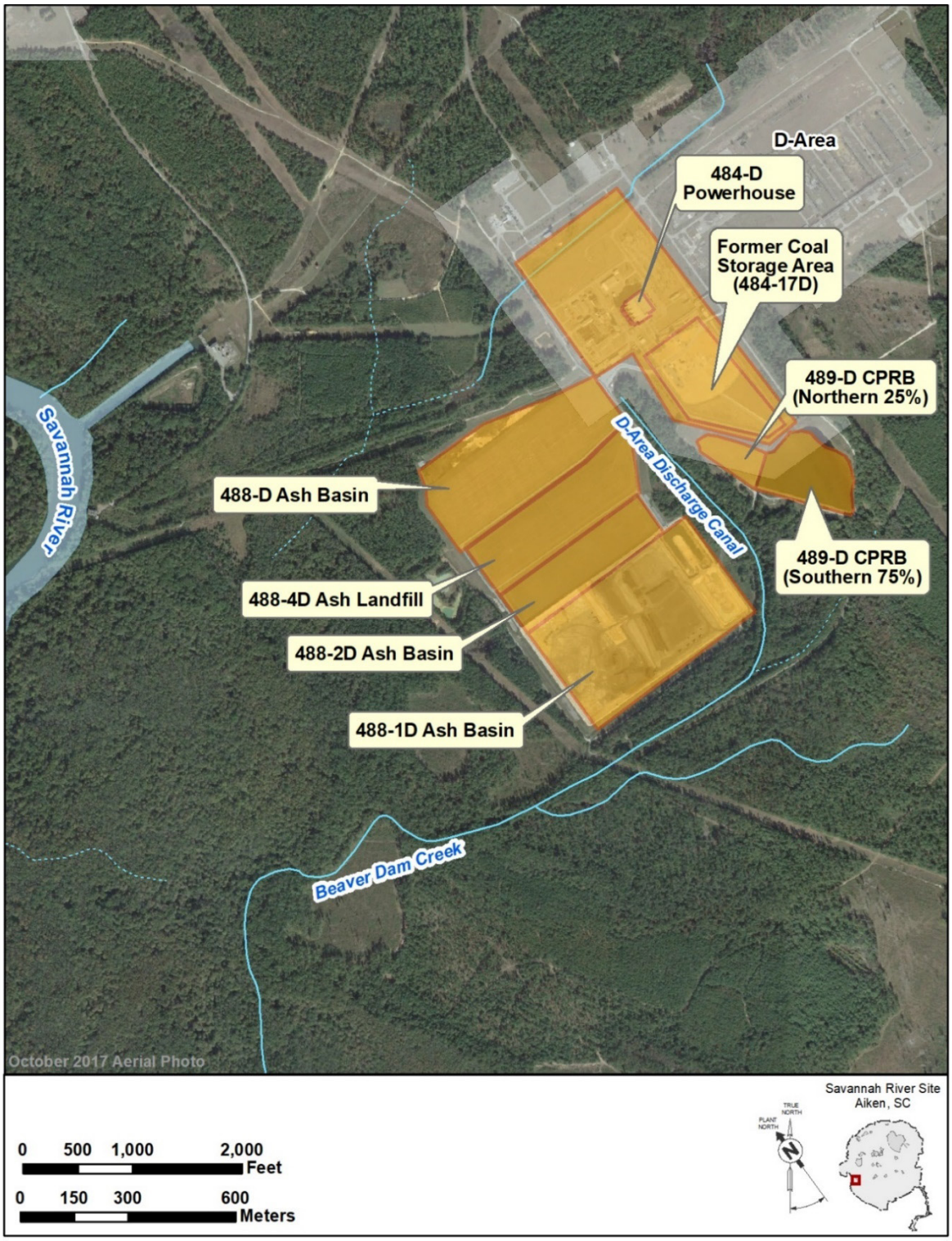


Figure 1. D-Area Powerhouse Associated Facilities

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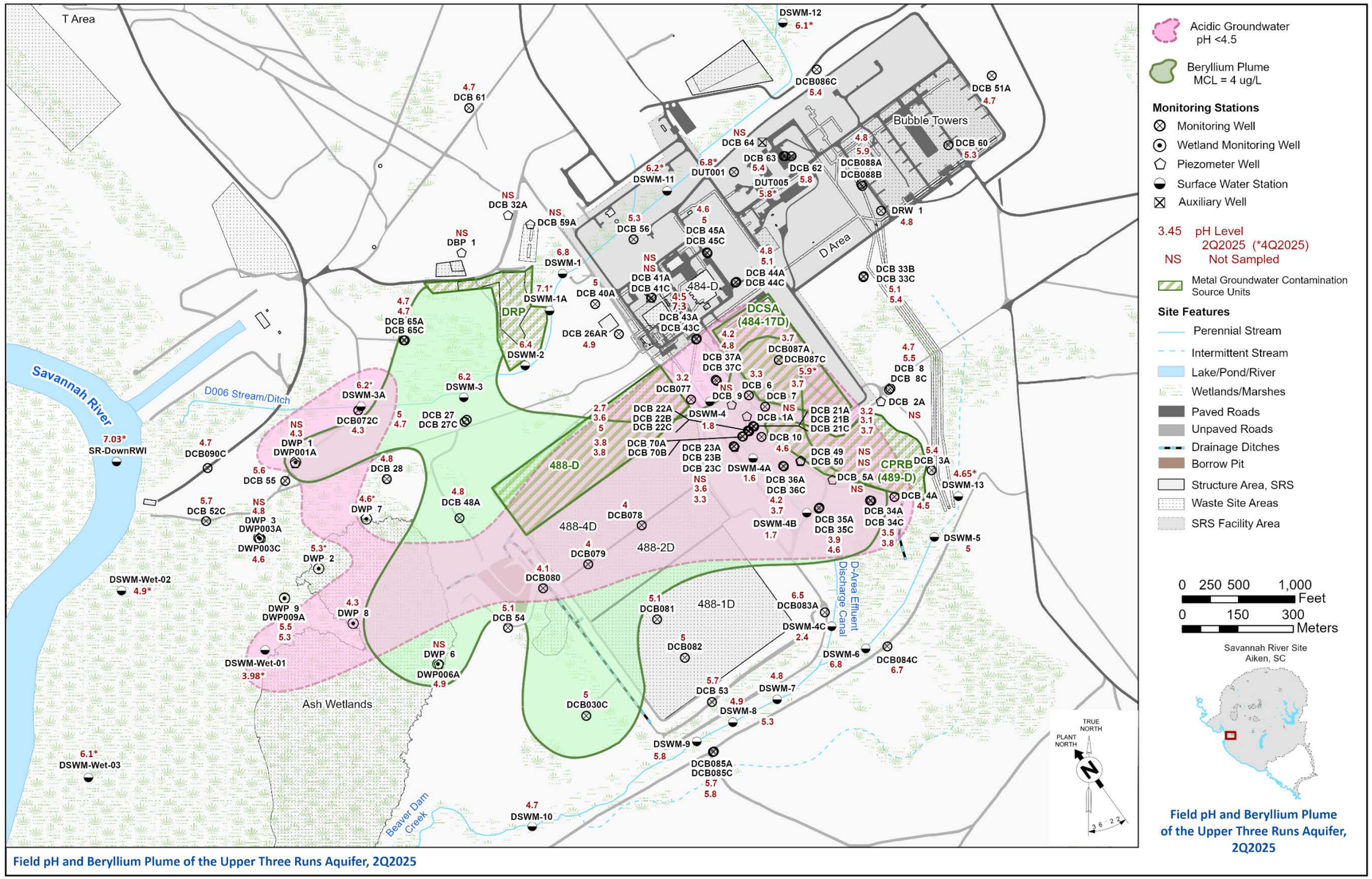
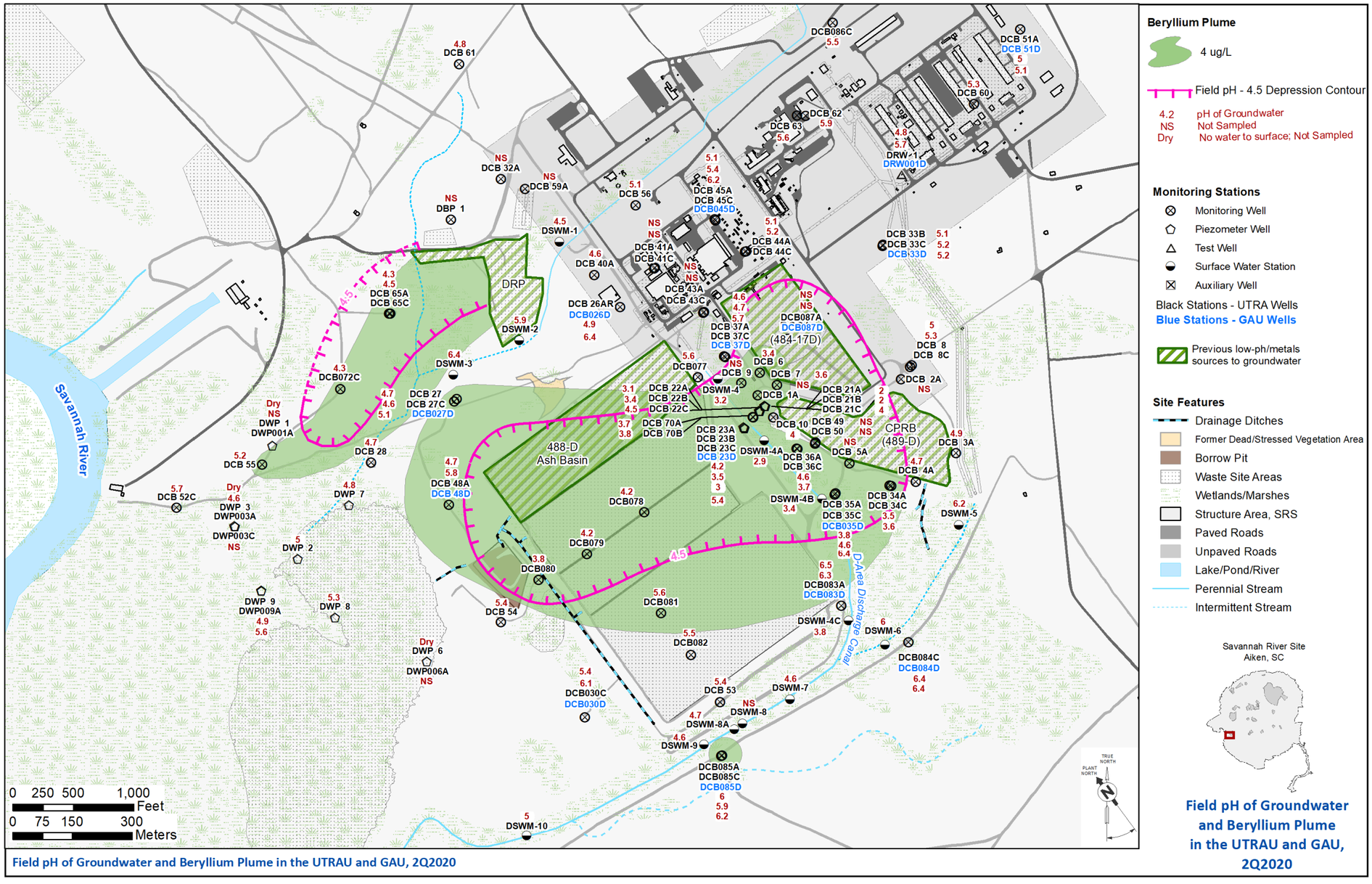


Figure 2. D-Area Groundwater 2Q2025 pH and Beryllium Plume

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Field pH of Groundwater and Beryllium Plume in the UTRAU and GAU, 2Q2020

Figure 3. D-Area Groundwater 2Q2020 pH and Beryllium Plume

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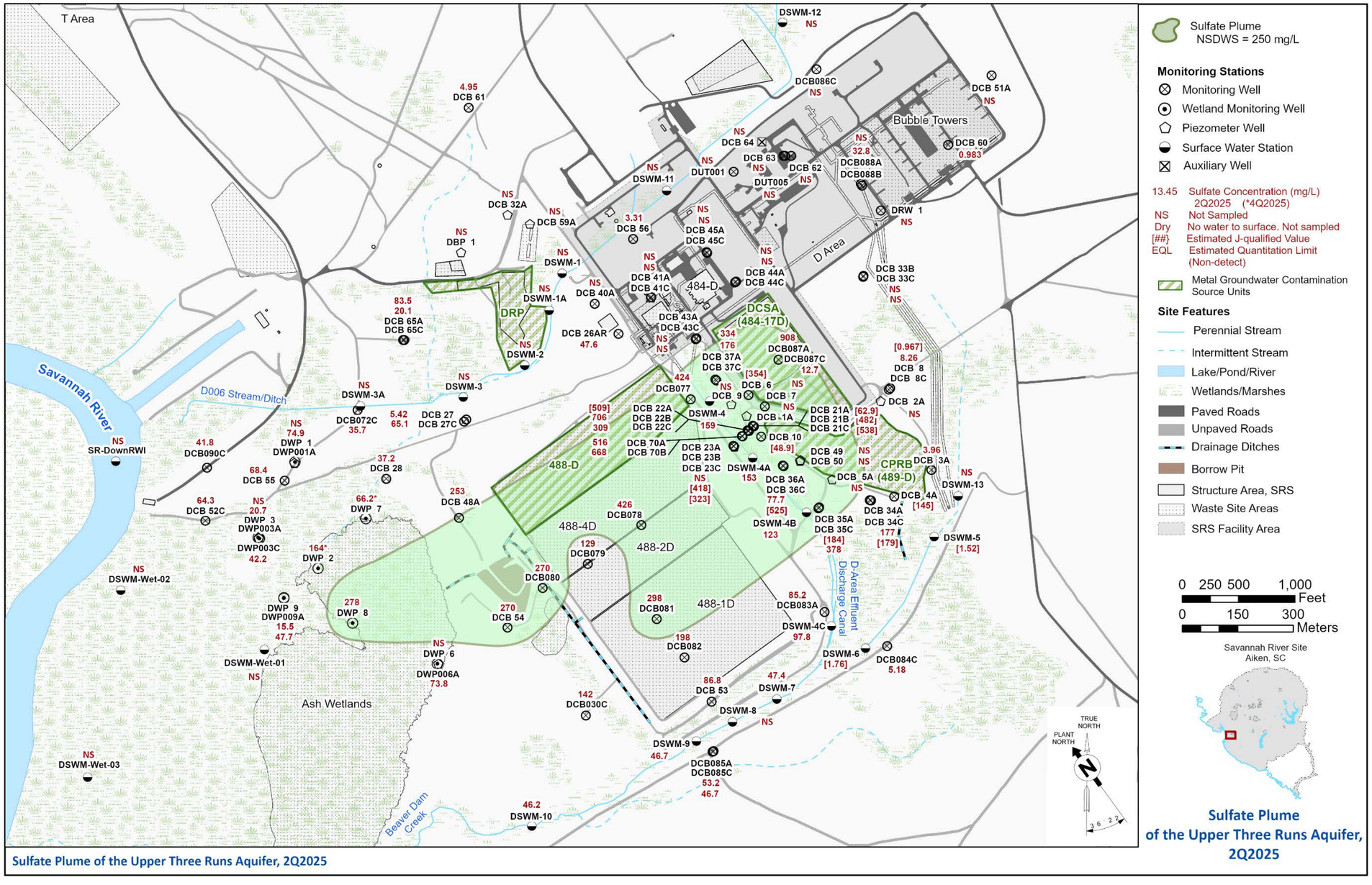


Figure 4. D-Area Groundwater 2Q2025 Sulfate Plume

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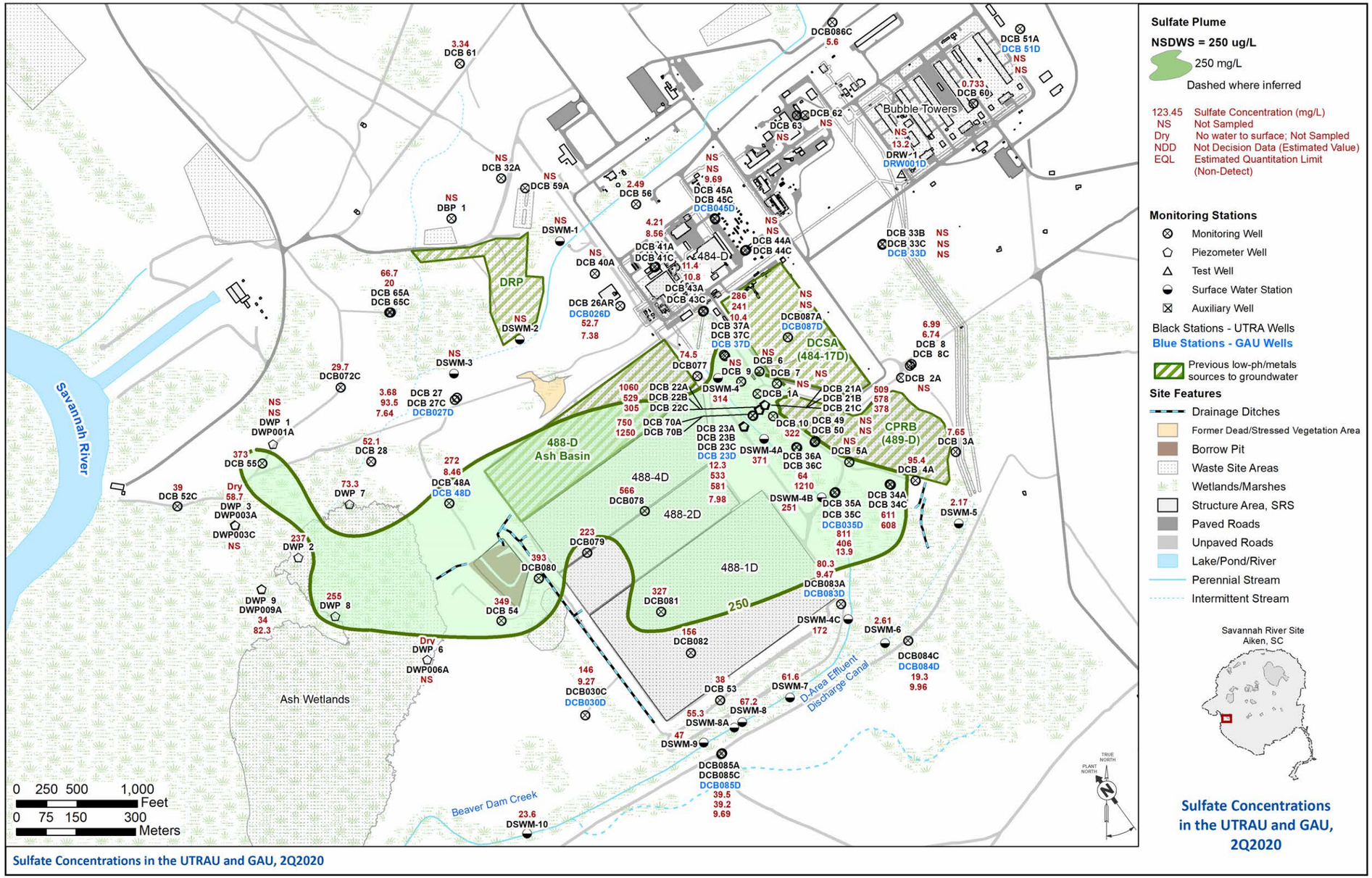


Figure 5. D-Area Groundwater 2Q2020 Sulfate Plume

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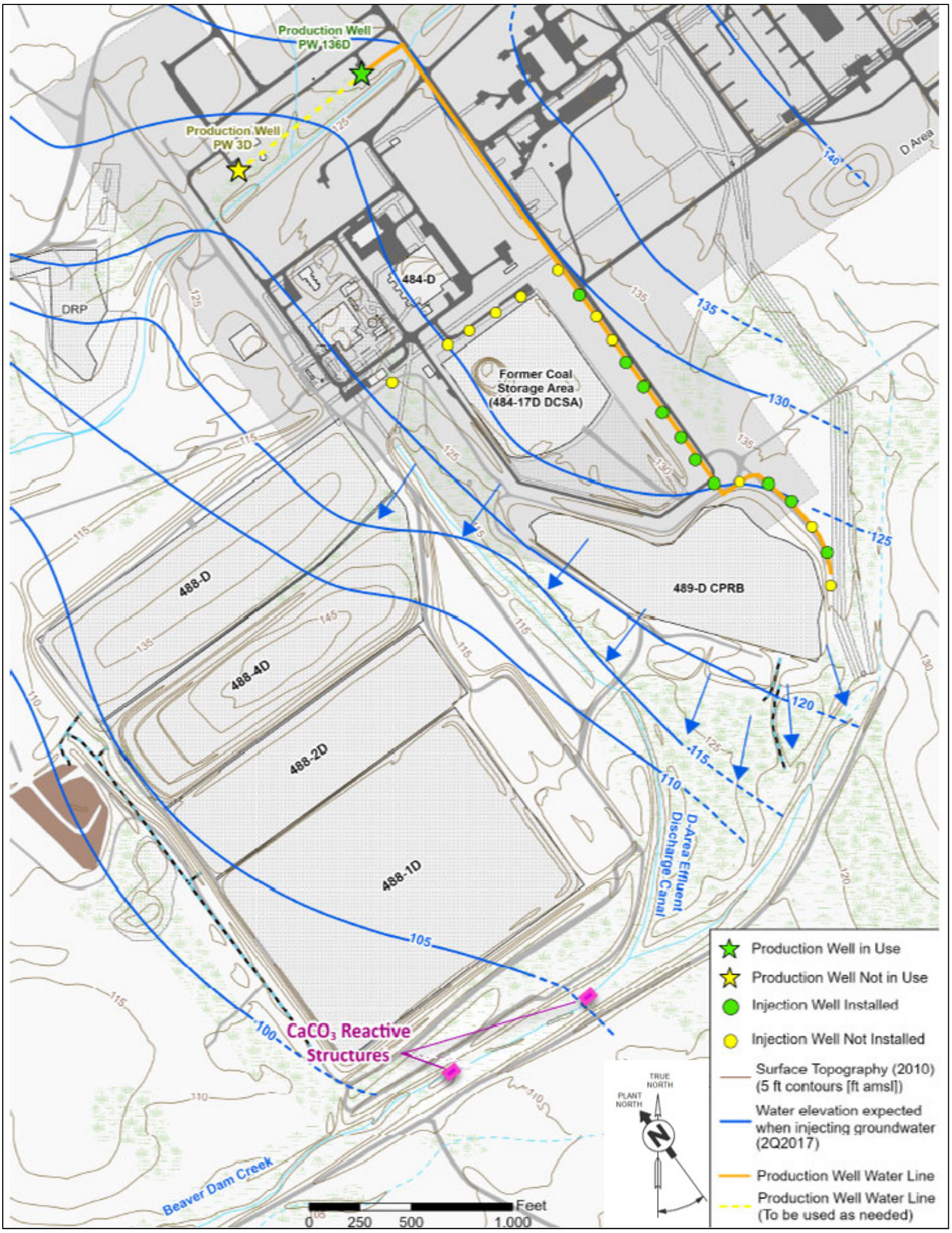


Figure 6. D-Area Treatability Study Injection Wells, Reactive Structure, and Projected Water Table Elevation

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Figure 7. D-Area Injection Wells Installed and Production Well Piping

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Water Volume, ml	$CaCO_3$ Mass, g	Initial pH	Final pH	Mass $CaCO_3$ per Water Volume, mg/l
Initial		3		0
200	0.018	3.08	3.99	90
200	0.05	3.05	5.75	250
200	0.1	3.02	6.15	500
50	0.1	2.98	6.64	2,000
50	0.25	2.93	6.50	5,000
50	0.5	2.90	6.60	10,000

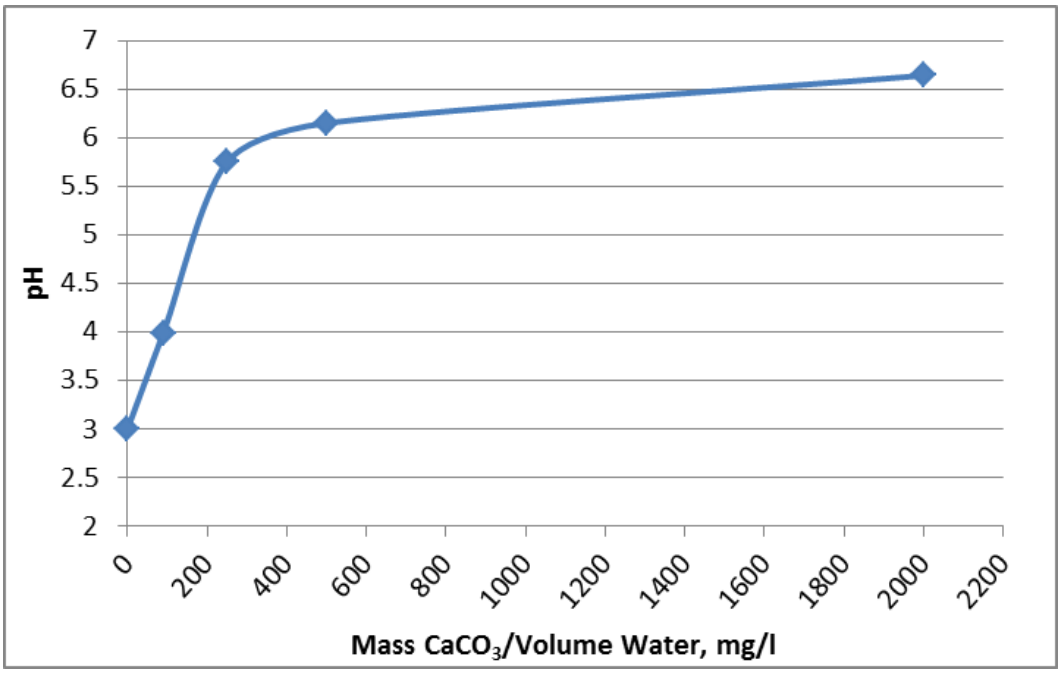


Figure 8. Titration Test Chart and Graph of D-Area Discharge Canal Acidic Surface Water with Calcium Carbonate Additions

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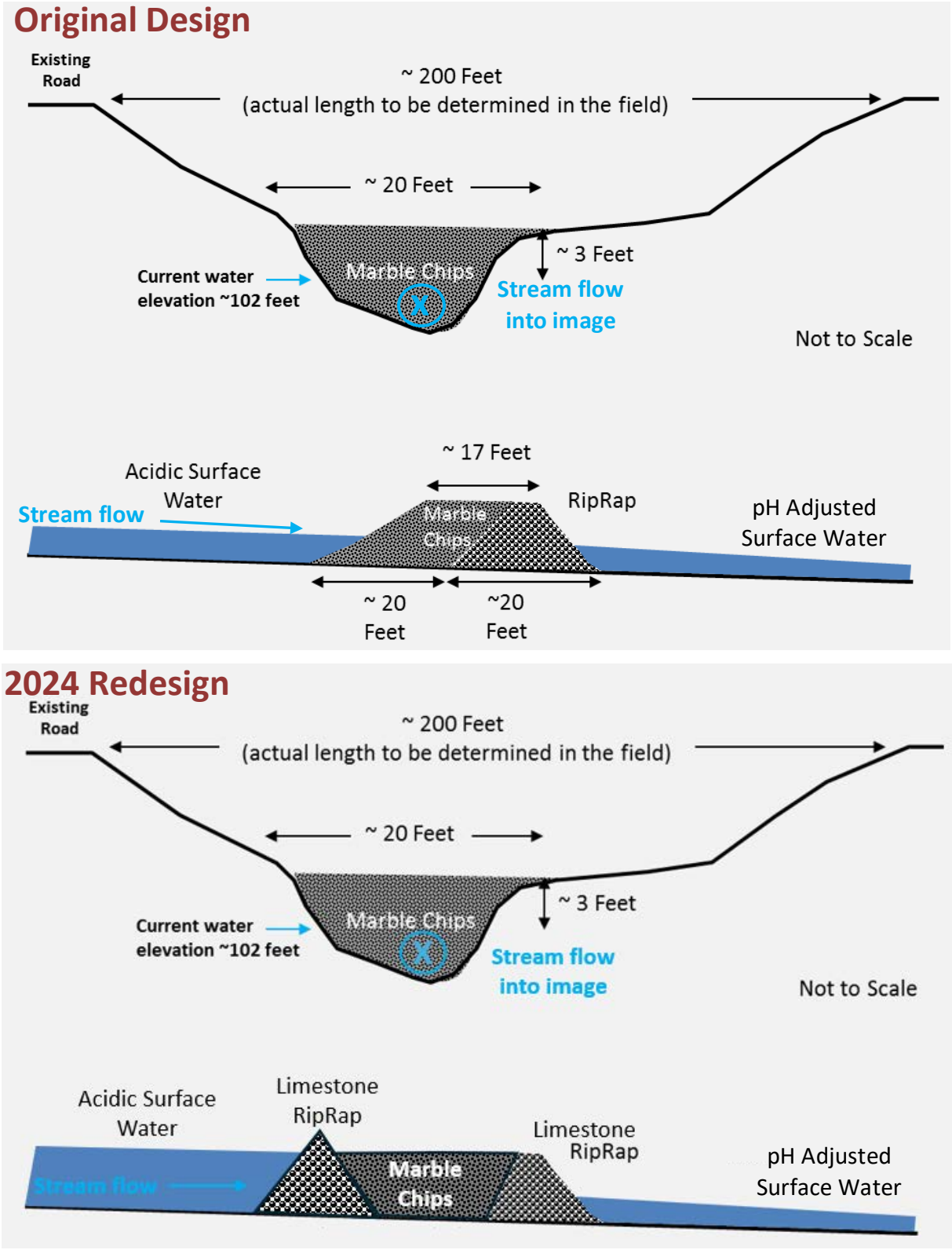


Figure 9. Diagram of $CaCO_3$ Reactive Structures in the D-Area Discharge Canal

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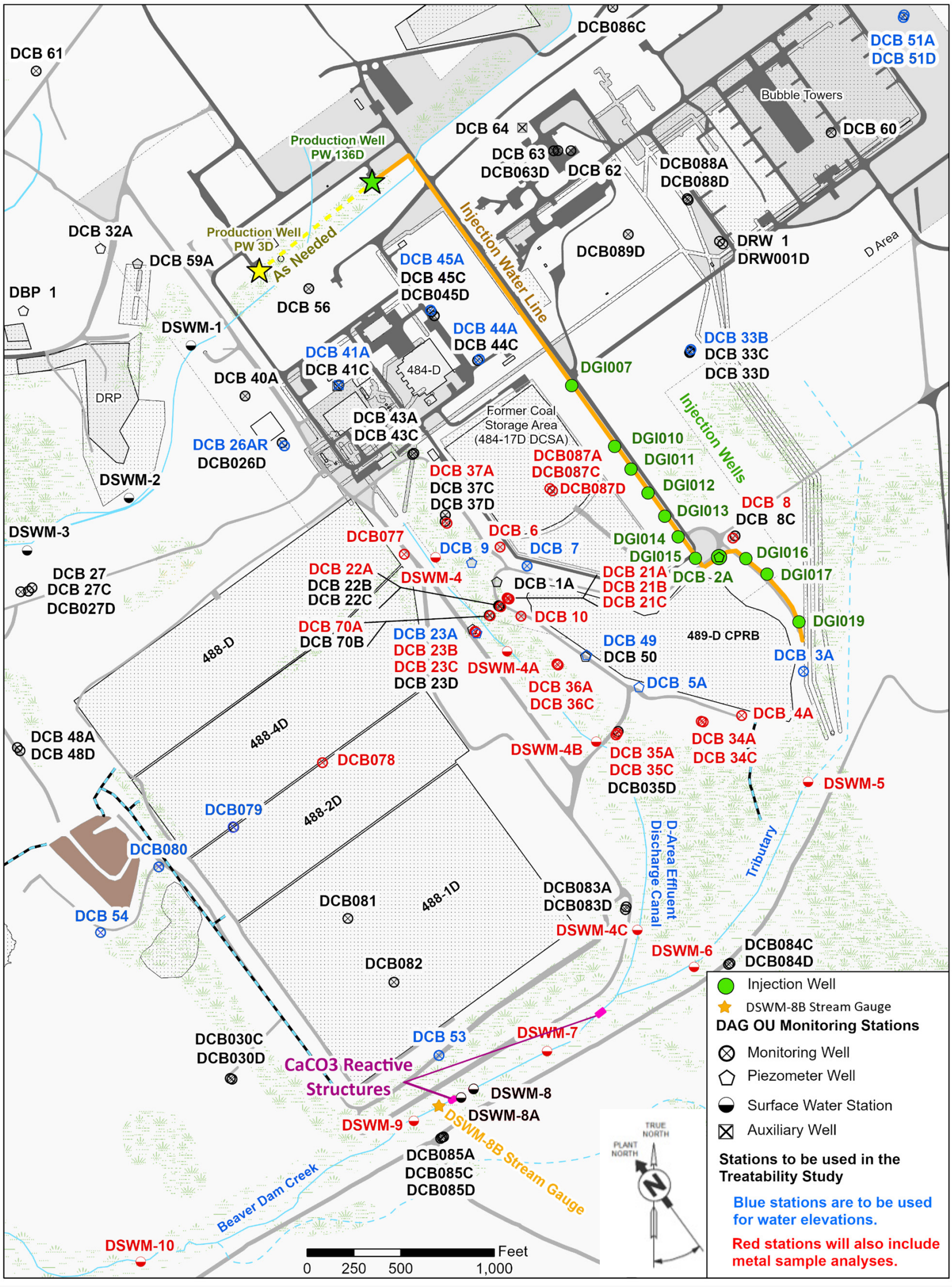


Figure 10. D-Area Treatability Study Monitoring Locations

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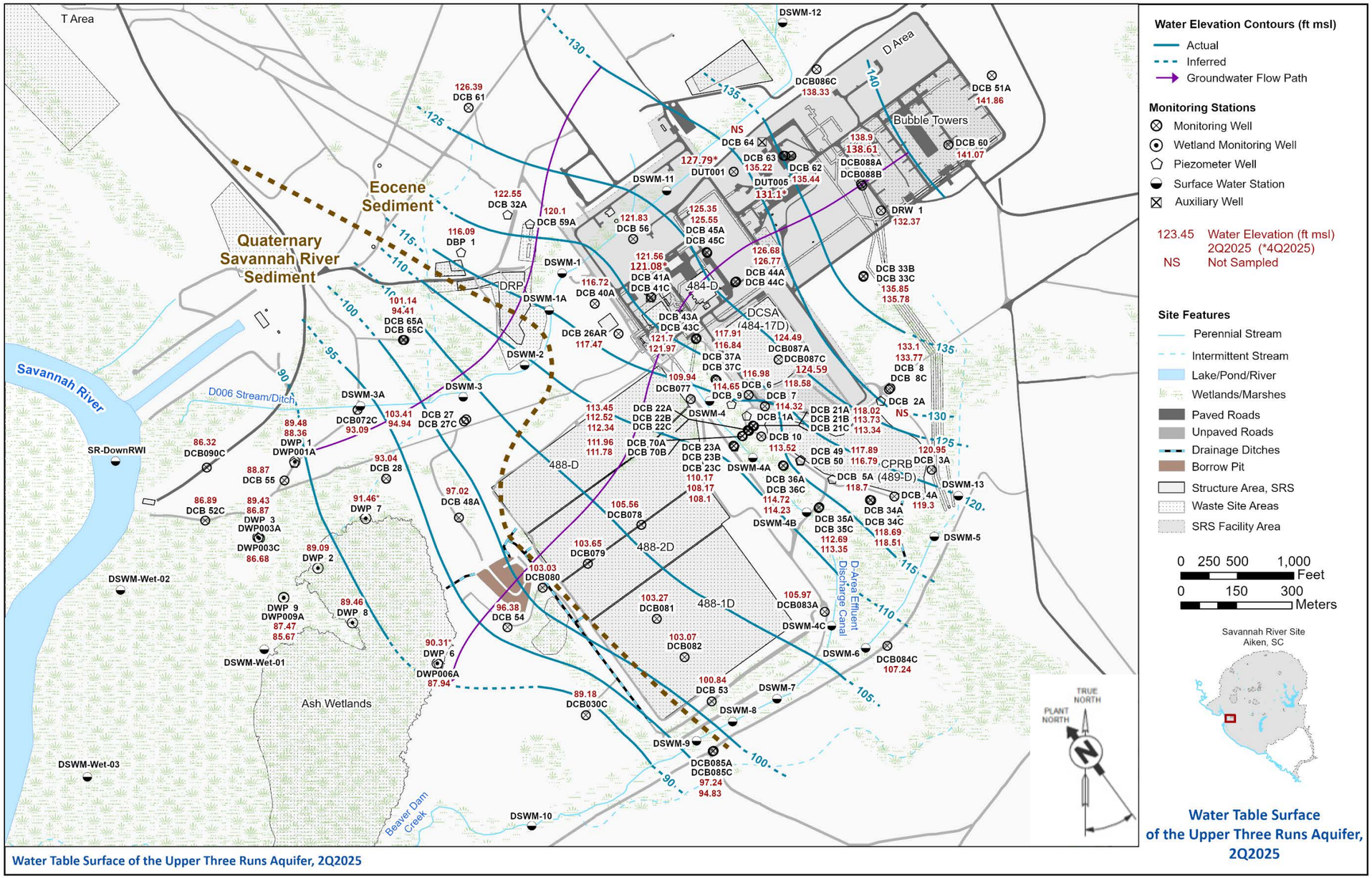


Figure 11. D-Area Groundwater OU UTRA Potentiometric Surface (2Q2025)

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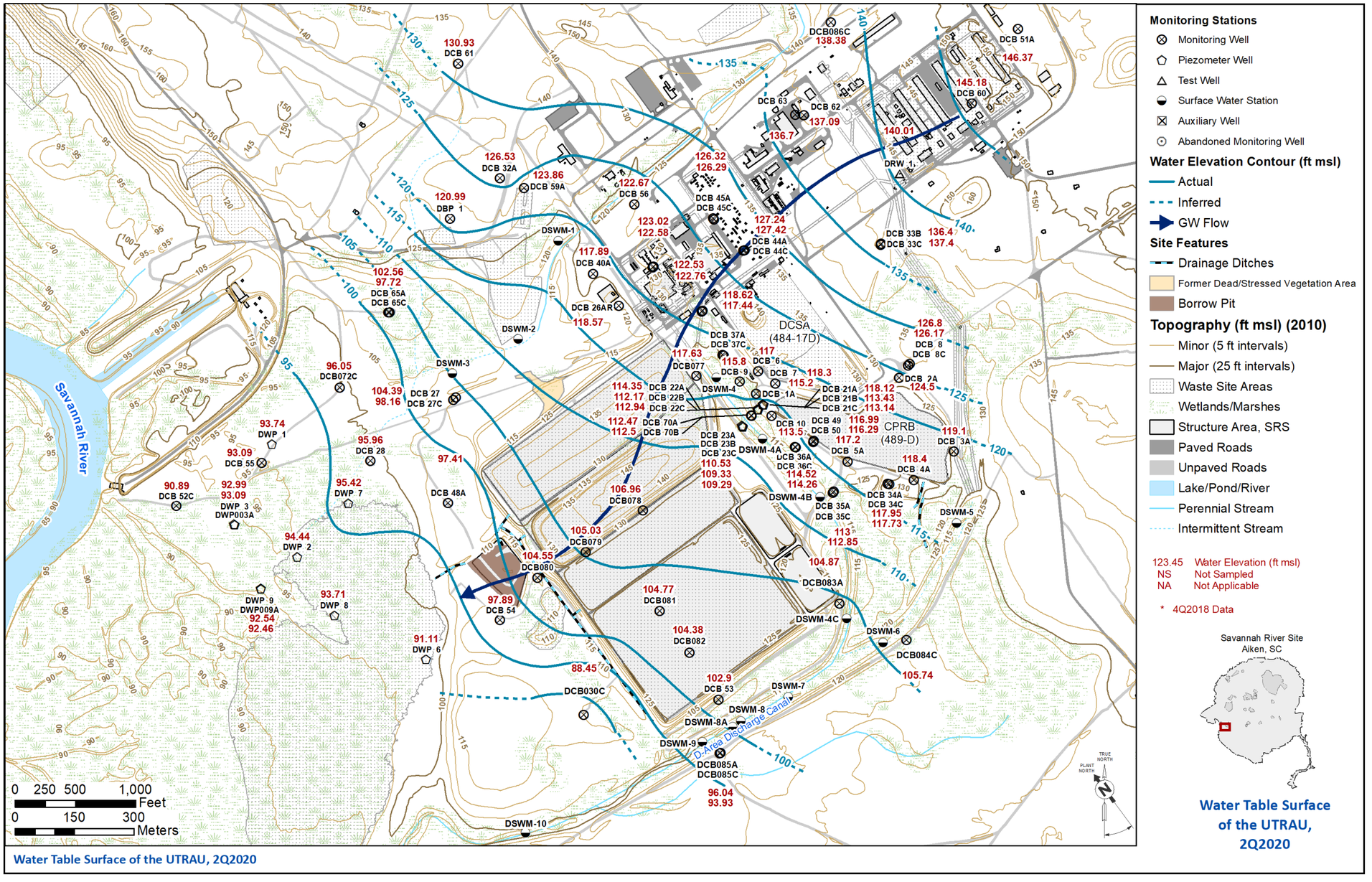


Figure 12. D-Area Groundwater OU UTRA Potentiometric Surface (2Q2020)

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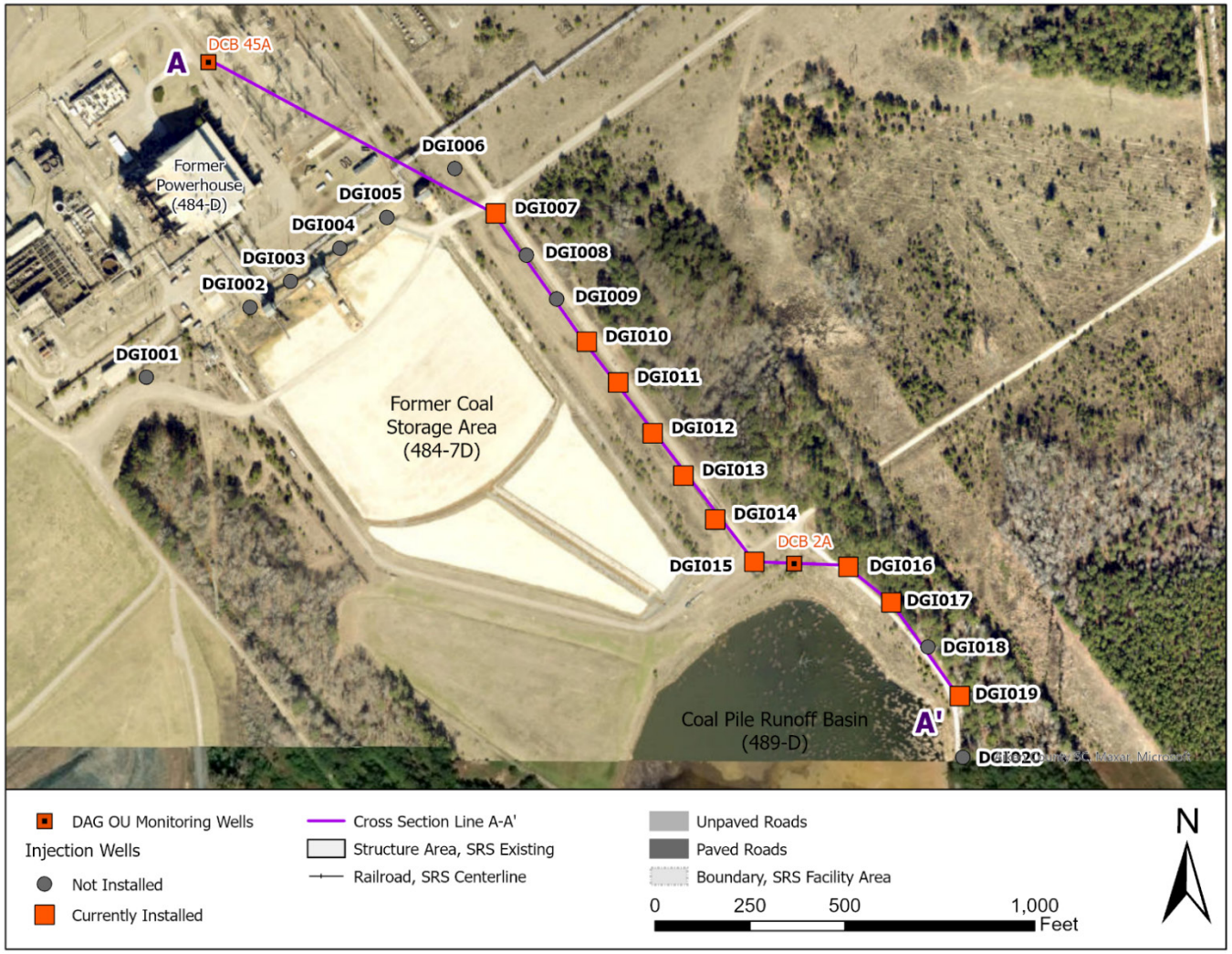


Figure 13. Installed Injection Wells and Cross Section Line A–A'

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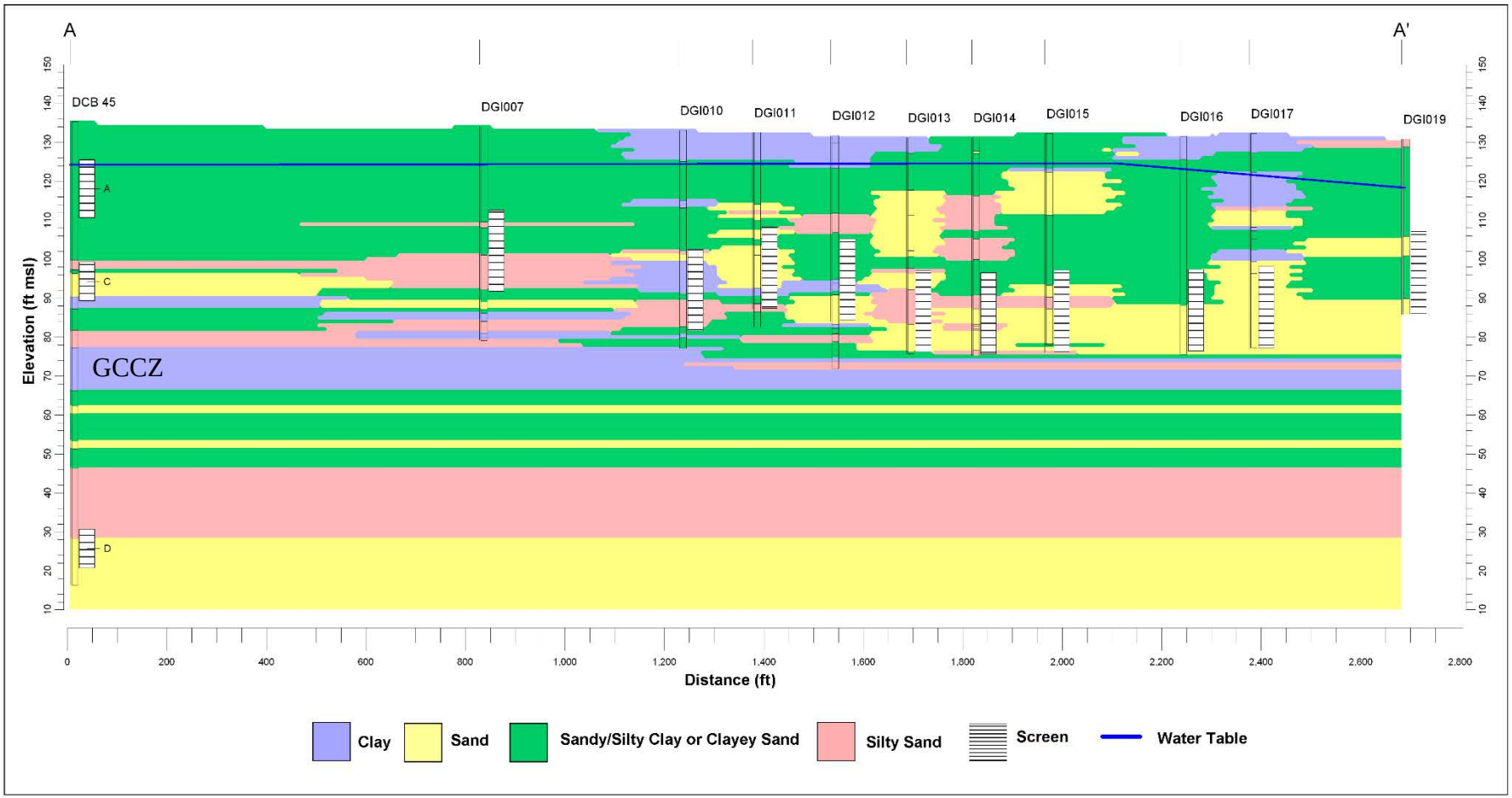


Figure 14. D-Area Injection Well Lithological Cross-Section A-A'

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Figure 15. D-Area Treatability Study Pipeline Installation

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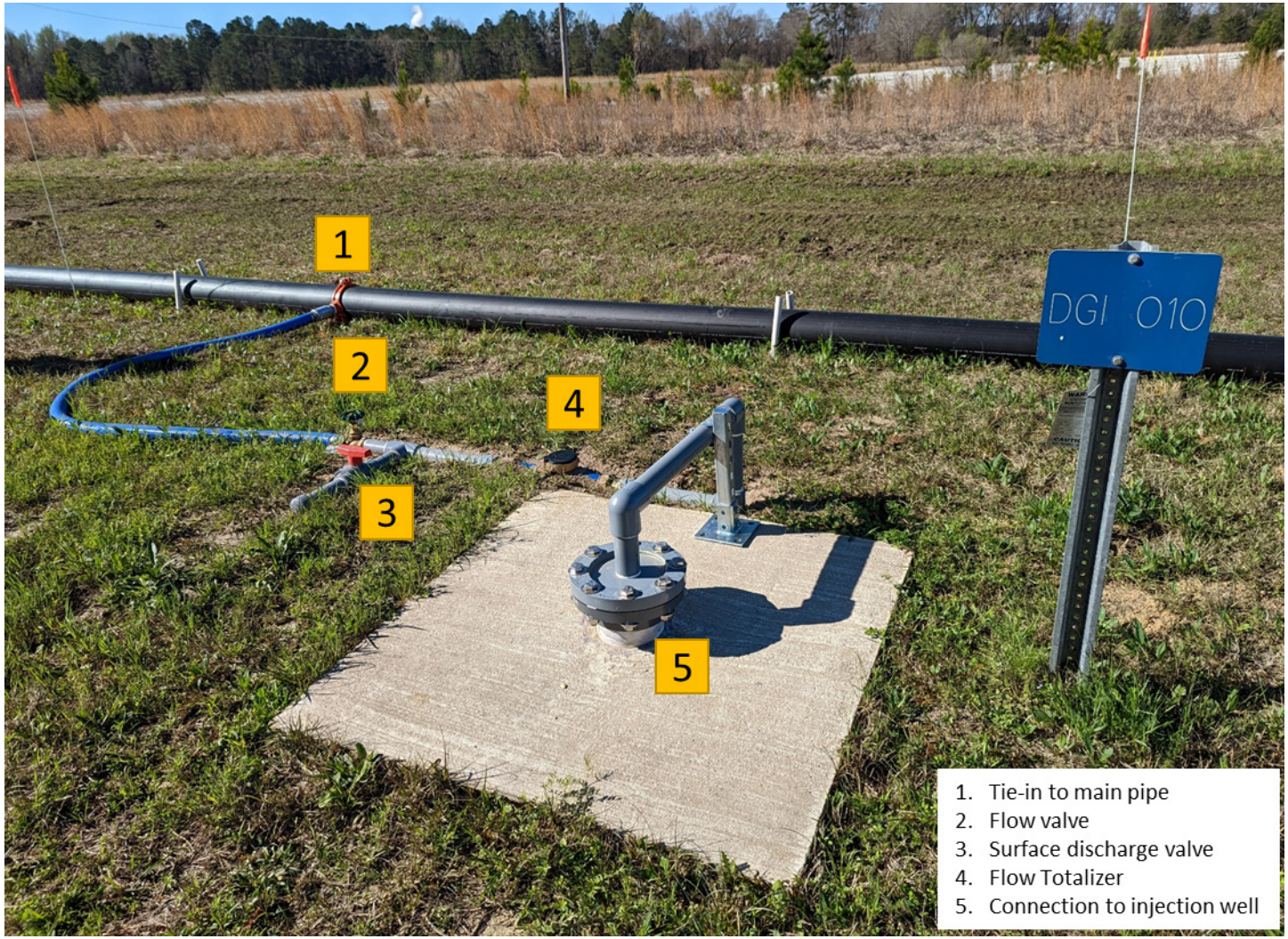
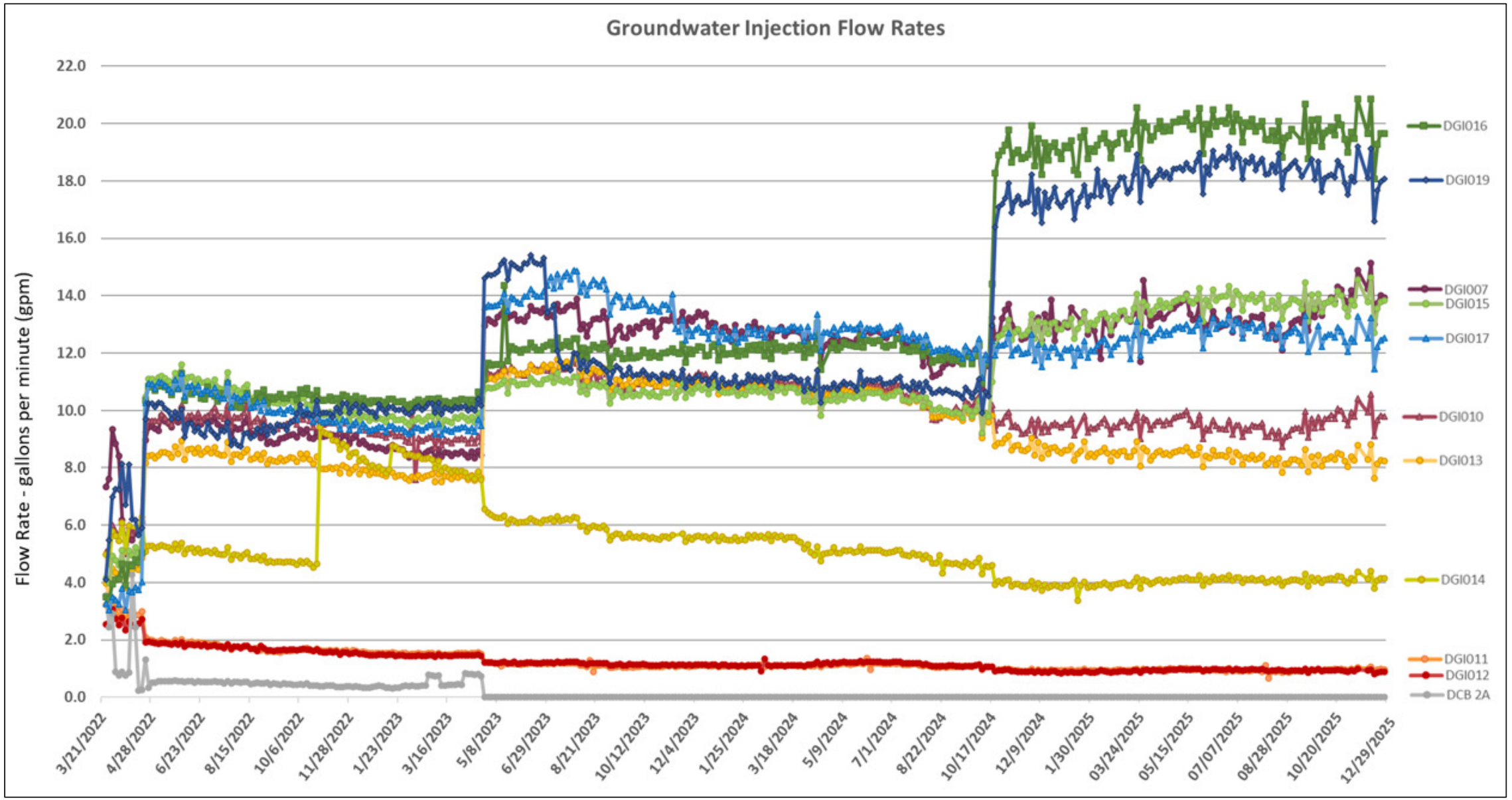


Figure 16. Injection Well Connection to Pipeline (DGI010)

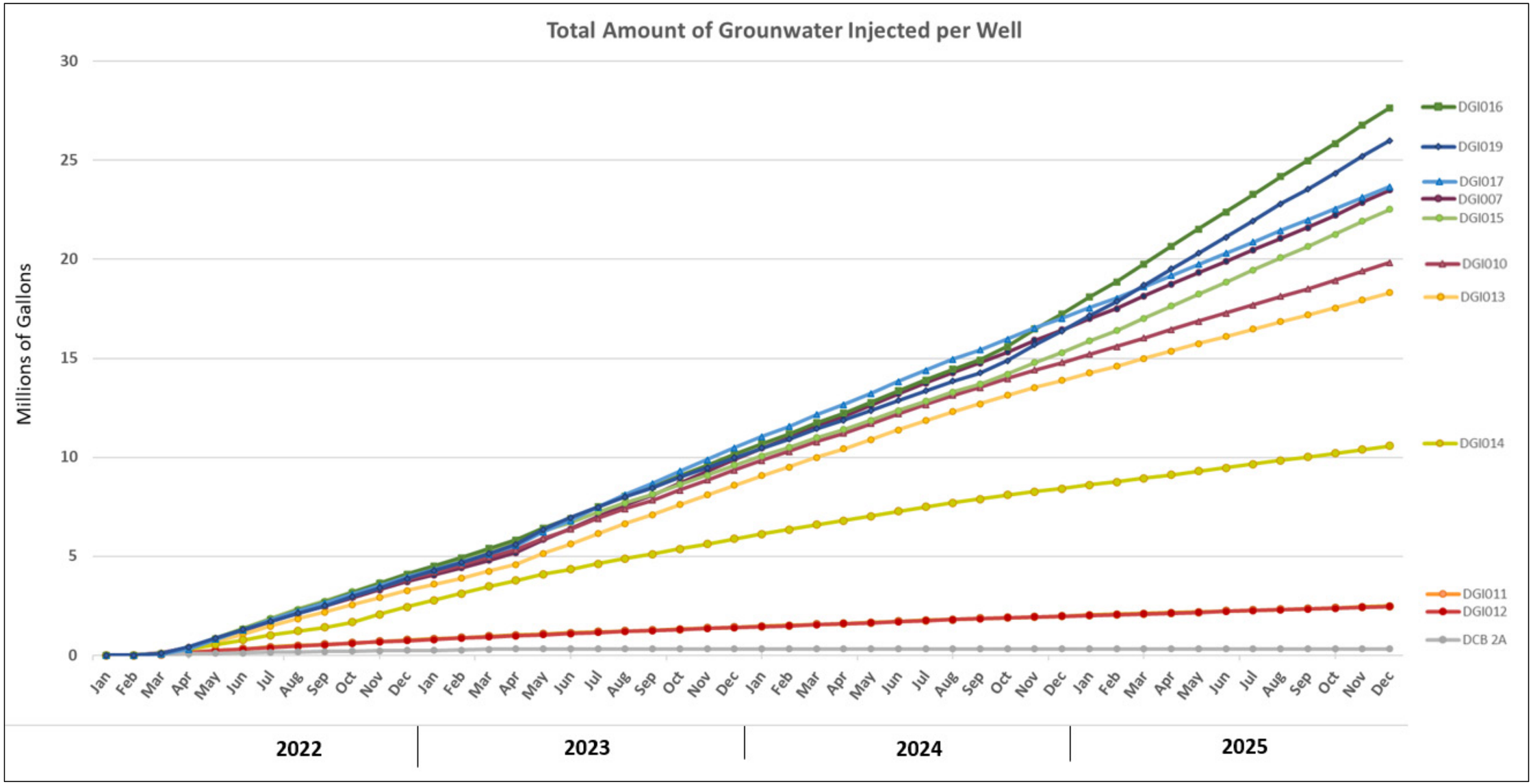
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(the electronic data set is provided in the Excel table, tab “Injection_Data”)

Figure 17. Graph of Injection Well Flow Rates for 2022 through 2025

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(the electronic data set is in the Excel table, tab “Injection_Data”)

Figure 18. Cumulative Groundwater Injection Volumes Per Well (in millions of gallons)

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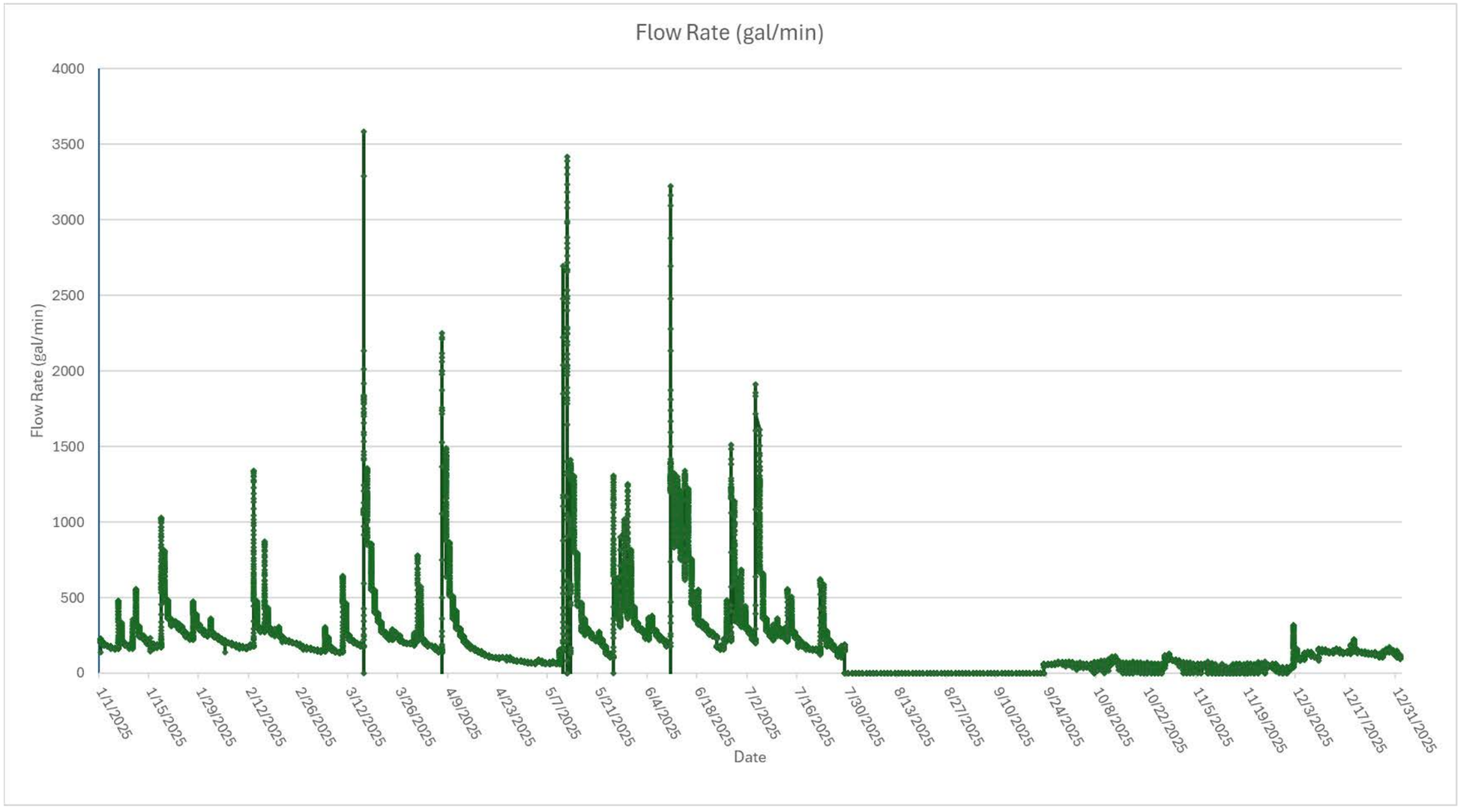


Figure 19. D-Area Effluent Discharge Canal Stream Continuous Flow Measurements for 2025

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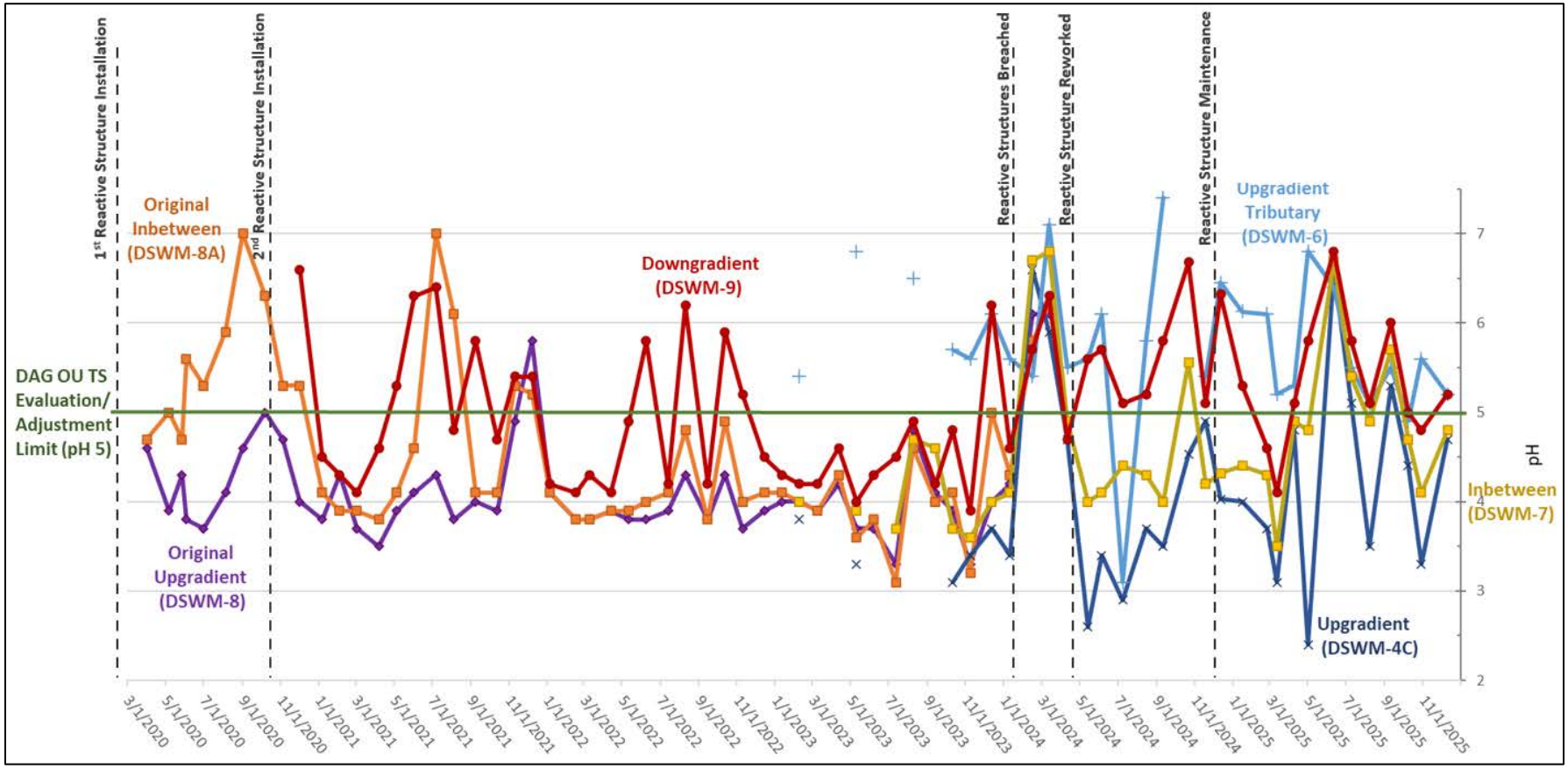


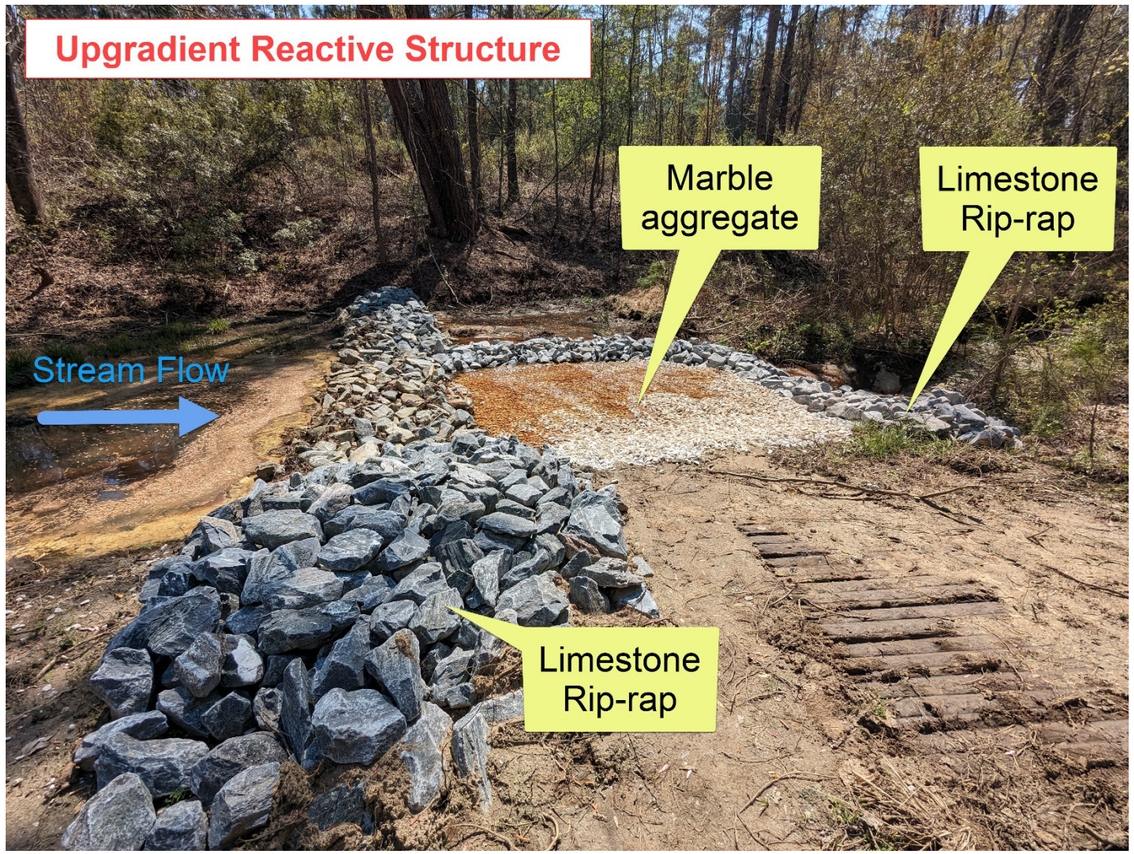
Figure 20. $CaCO_3$ Reactive Structure Surface Water pH Results

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Figure 21. Location of the Reworked $CaCO_3$ Reactive Structures

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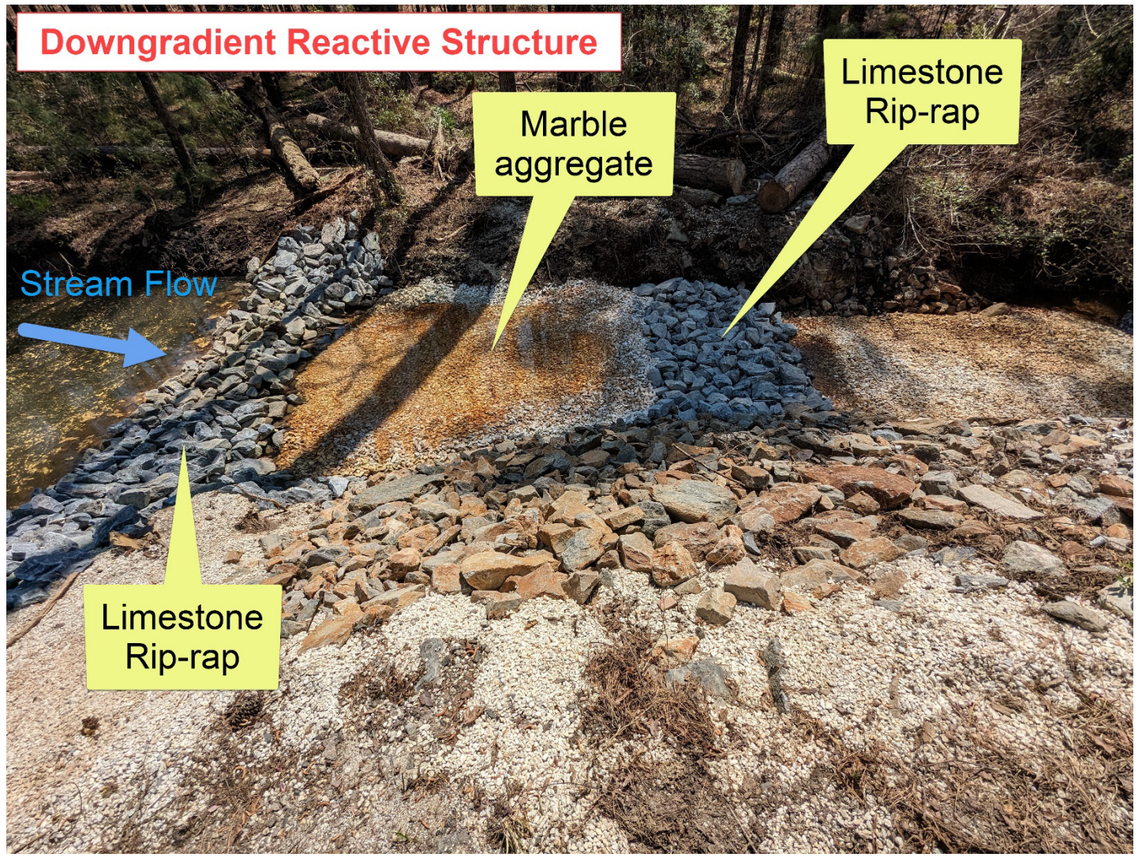


Figure 22. D-Area Effluent Discharge Canal Reactive Structures (March 2024)

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Figure 23. Surface Water Concentrations of pH vs. Beryllium, Aluminum, and Sulfate at Multiple Surface Locations in the D-Area Effluent Discharge Canal

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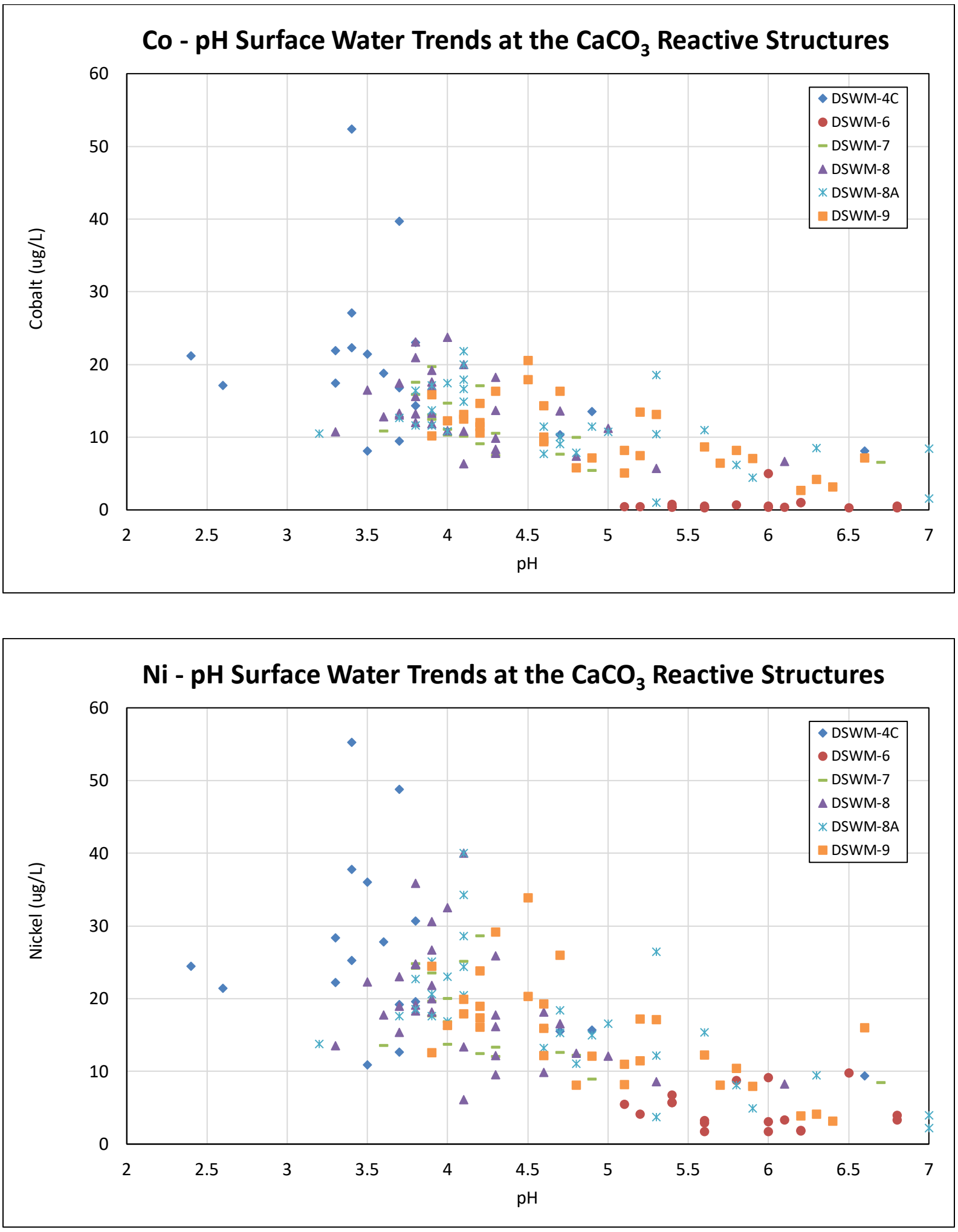


Figure 24. Surface Water Concentrations of pH vs Cobalt and Nickel at Multiple Surface Locations in the D-Area Effluent Discharge Canal

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APPENDIX A

D-Area Groundwater Treatability Study Data Tables

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Table A-1. D-Area Groundwater Treatability Study Data Table (2025)

Station	Well Use	Aquifer Zone	Field Data: SAMPLE COLLECTION DATE	DEPTH TO WATER	SAMPLING EVENT WATER ELEVATION	SYNCHRONOUS MEASUREMENT DATE	SYNCHRONOUS WATER ELEVATION	TURBIDITY	PH	WATER TEMPERATURE	SPECIFIC CONDUCTANCE	TOTAL ALKALINITY (AS CACO3)	OXIDATION/REDUCTION POTENTIAL	OXYGEN	Constituent	FIELD CONDITIONS	Inorganics: ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	SULFATE	THALLIUM	URANIUM	VANADIUM	ZINC
			day-month-year	ft	ft	day-month-year	ft	NTU	pH	degC	uS/cm	mg/L	mV	mg/L	Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L
															NPDWS (MCL)		6		10	2,000	4	5		100		1,300		300	15		50	2			50		100	250		2	30		5,000
															RSL		20,000						6				14,000			430		390				94					86	6,000
DCB 3A	Monitoring Well	UTRA	NS	NS	NS	13-Feb-2025	121.15	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 3A	Monitoring Well	UTRA	27-May-2025	11.7	121.5	08-May-2025	120.95	1.9	5.4	20.7	23.9	2.9	170	4.3		DAG	66	<EQL (3)	<EQL (5)	16.1	<EQL (0.5)	<EQL (1)	1,170	<EQL (10)	<EQL (1)	[0.79]	69	<EQL (2)	439	[4.94]	[0.105]	[1.31]	[205]	<EQL (5)	<EQL (1)	1.84	3.96	<EQL (2)	<EQL (0.2)	<EQL (20)	[9.15]
DCB 3A	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	121.47	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 3A	Monitoring Well	UTRA	15-Oct-2025	12.78	120.42	23-Oct-2025	120.37	1.8	5.4	21.6	17.1	14	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 4A	Monitoring Well	UTRA	13-Feb-2025	10.76	118.84	13-Feb-2025	118.84	1.1	4.3	19.8	132	0	353	3.27			2,930	<EQL (4)	[0.336]	51.7	[0.551]	[0.252]	7,820	2.51	11.3	[2.85]	188	<EQL (2)	3,860	[155]	<EQL (0.2)	23.2	[570]	2.82	<EQL (2)	[1.39]	52.8	<EQL (2)	1.9	<EQL (5)	62.6
DCB 4A	Monitoring Well	UTRA	29-Apr-2025	10.31	119.29	08-May-2025	119.3	1.1	4.3	20.9	320	0	369	4.4			12,400	<EQL (4)	[1.05]	69.4	2.14	[0.873]	16,200	2.24	39.7	8.05	322	<EQL (2)	10,600	544	[0.0921]	75.3	[1,020]	5.45	<EQL (2)	[1.81]	[145]	<EQL (2)	6.05	<EQL (5)	188
DCB 4A	Monitoring Well	UTRA	22-May-2025	10.1	119.5	08-May-2025	119.3	1	4.5	20.4	123	0	250	2.8			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 4A	Monitoring Well	UTRA	28-Oct-2025	10.65	118.95	23-Oct-2025	118.97	0.9	4	21.8	665.1	0	320	2.09			37,800	<EQL (4)	2.27	34.7	6.57	2.4	28,700	3.11	108	35.5	5,220	<EQL (2)	24,700	1,450	[0.094]	207	2,180	9.26	<EQL (2)	2.26	358	[0.211]	24.7	[0.884]	558
DCB 5A	Piezometer Well	UTRA	NS	NS	NS	13-Feb-2025	119.15	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 5A	Piezometer Well	UTRA	NS	NS	NS	08-May-2025	118.7	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 5A	Piezometer Well	UTRA	NS	NS	NS	06-Aug-2025	119.49	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 5A	Piezometer Well	UTRA	NS	NS	NS	23-Oct-2025	117.99	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 6	Monitoring Well	UTRA	12-Feb-2025	15.69	118.11	12-Feb-2025	118.11	7.4	3	20.1	769.8	0	421	1.12			46,600	<EQL (4)	[1.15]	19.2	9.25	2.02	21,000	3.76	130	81.3	1,650	[1.65]	11,000	[1,970]	<EQL (0.2)	290	[1,830]	4.07	<EQL (2)	[4.01]	394	<EQL (2)	13.1	<EQL (5)	565
DCB 6	Monitoring Well	UTRA	29-Apr-2025	18.42	115.38	08-May-2025	116.98	7.8	3.3	20.2	745	0	487	4			41,500	<EQL (4)	[0.693]	18	8.61	1.66	18,700	4.73	105	78.7	357	[1.91]	9,120	1,820	<EQL (0.2)	240	[1,530]	2.46	<EQL (2)	3.84	[354]	<EQL (2)	8.43	<EQL (5)	456
DCB 6	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	119.51	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 6	Monitoring Well	UTRA	28-Oct-2025	17.18	116.62	23-Oct-2025	118.5	5.1	3	17.9	707.6	0	438	3.13			41,200	<EQL (4)	[0.888]	25.1	8.94	2.01	20,800	7.13	114	81.2	1,560	4.57	10,100	1,900	<EQL (0.2)	257	[1,950]	2.95	<EQL (2)	4.08	387	[0.182]	12	[1.45]	526
DCB 7	Monitoring Well	UTRA	NS	NS	NS	13-Feb-2025	119.55	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 7	Monitoring Well	UTRA	27-May-2025	12.78	120.42	08-May-2025	118.58	2.1	3.7	20.8	522	0	NS	NS		DAG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.469	NS	NS
DCB 7	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	121.07	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 7	Monitoring Well	UTRA	NS	NS	NS	23-Oct-2025	117.9	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 8	Monitoring Well	UTRA	12-Feb-2025	3.94	133.26	12-Feb-2025	133.26	3.7	5.2	19.7	46.1	9	284	0.96			120	<EQL (4)	<EQL (2)	23	<EQL (2)	<EQL (1)	2,240	<EQL (2)	[0.422]	32	[45.8]	<EQL (2)	1,150	[9.3]	[0.186]	[0.594]	[792]	<EQL (2)	<EQL (2)	[1.59]	<EQL (5)	<EQL (2)	<EQL (1)	<EQL (5)	[10.3]
DCB 8	Monitoring Well	UTRA	29-Apr-2025	3.9	133.3	08-May-2025	133.1	4	4.7	19.2	49	0	361	2.7			[79.2]	<EQL (4)	<EQL (2)	22.6	<EQL (2)	<EQL (1)	2,370	<EQL (2)	[0.474]	28.6	[32.9]	<EQL (2)	1,220	9.65	0.235	[0.606]	[816]	<EQL (2)	<EQL (2)	2.19	[0.967]	<EQL (2)	<EQL (1)	<EQL (5)	<EQL (25)
DCB 8	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	134.69	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 8	Monitoring Well	UTRA	16-Oct-2025	4.06	133.14	23-Oct-2025	132.89	6.9	4.5	20.4	45	0	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 8	Monitoring Well	UTRA	28-Oct-2025	4.19	133.01	23-Oct-2025	132.89	3.9	4.7	20.3	47.6	0	282	1.93			174	<EQL (4)	[0.159]	21.6	<EQL (2)	<EQL (1)	2,140	<EQL (2)	[0.468]	26	21.4	[0.513]	1190	9.1	0.25	0.672	[726]	<EQL (2)	<EQL (2)	2.18	<EQL (5)	<EQL (2)	<EQL (1)	[0.837]	<EQL (25)
DCB 9	Piezometer Well	UTRA	NS	NS	NS	13-Feb-2025	115.82	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 9	Piezometer Well	UTRA	NS	NS	NS	08-May-2025	114.65	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 9	Piezometer Well	UTRA	NS	NS	NS	06-Aug-2025	116.53	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 9	Piezometer Well	UTRA	NS	NS	NS	23-Oct-2025	113.29	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 10	Monitoring Well	UTRA	12-Feb-2025	7.81	116.59	12-Feb-2025	116.59	8.8	4.2	17.4	207.5	0	334	1.03		X	9,460	<EQL (4)	2.33	92.2	[0.778]	[0.212]	9,720	2.42	11.6	10.5	1,190	[1.36]	3,390	[275]	<EQL (0.2)	31.6	3,270	[0.728]	<EQL (2)	[2.2]	83.3	<EQL (2)	[0.265]	[1.39]	112
DCB 10	Monitoring Well	UTRA	29-Apr-2025	10.37	114.03	08-May-2025	113.52	126	4.6	18.6	141	0	380	4.4		X	6,400	<EQL (4)	5.46	120	[0.362]	<EQL (1)	9,230	4.08	4.43	9.25	1,410	[1.46]	2,900	177	[0.0878]	13.9	3,980	[0.628]	<EQL (2)	2.57	[48.9]	<EQL (2)	[0.312]	[2.09]	47.4
DCB 10	Monitoring Well	UTRA														Lab Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	[48.4]	NS	NS	NS	NS
DCB 10	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	115.46	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 11	Monitoring Well	UTRA	28-Oct-2025	10.22	114.18	23-Oct-2025	112.55	24.4	4.4	20.3	190	0	315	2.98			8,660	<EQL (4)	7.92	130	[0.586]	[0.172]	12,000	6.08	12.3	11.6	6,690	2.14	4,270	329	[0.118]	37.6	4,530	[0.652]	<EQL (2)	4.13	61.2	<EQL (2)	[0.418]	6.26	85.4
DCB 21A	Monitoring Well	UTRA	12-Feb-2025	9.5	118.72	12-Feb-2025	118.72	2.7	2.1	15.9	416	0	516	3.77			8,630	<EQL (4)	[0.162]	35.8	[0.483]	[0.2]	7,250	[1.02]	7.84	6.33	[97.9]	2.73	3,620	[382]	<EQL (0.2)	18.3	4,200	[0.975]	<EQL (2)	[2.53]	106	[0.416]	[0.162]	<EQL (5)	64.7
DCB 21A	Monitoring Well	UTRA	29-Apr-2025	9.8	118.42	08-May-2025	118.02	1.4	3.2	17.6	366	0	275	2.1			6,520	<EQL (4)	<EQL (2)	44	[0.552]	[0.13]	5,840	<EQL (2)	7.23	[4.58]	[63.6]	2.82	2,880	278	<EQL (0.2)	16.1	3,960	[1.02]	<EQL (2)	2.7	[62.9]	[0.436]	[0.161]	<EQL (5)	43.4
DCB 21A	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	119.58	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 21A	Monitoring Well	UTRA	16-Oct-2025	10.43	117.79	23-Oct-2025	116.12	1	3.5	22.1	465	0	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 21A	Monitoring Well	UTRA	28-Oct-2025	8	120.22	23-Oct-2025	116.12	2	3.1	21.7	451	0	45	3.2			6,680	<EQL (4)	[0.25]	46.7	[0.585]	[0.143]	5,970	2.05	7.38	5.82	596	4.3	2,970	387	[0.108]	16.2	4,290	[1.04]	<EQL (2)	2.29	89	[0.444]	[0.282]	[1.04]	50.5
DCB 21B	Monitoring Well	UTRA	12-Feb-2025	13.6	114.63	12-Feb-2025	114.63	1.4	2.1	18.6	1084	0	528	3.23			29,200	<EQL (4)	[1.25]	16.4	5.89	3.25	52,900	37	223	244	837	40.2	31,400	[2,900]	<EQL (0.2)	328	2,370	4.93	<EQL (2)	[4.92]	472	[0.233]	3.62	<EQL (5)	787
DCB 21B	Monitoring Well	UTRA	29-Apr-2025	13.6	114.63	08-May-2025	113.73	1	3.1	19.7	996	0	326	1.6			29,400	<EQL (4)	[0.944]	17.7	6.38	3.33	55,100	47.5	227	1150	434	57.8	32,300	4,310	<EQL (0.2)	338	2,440	3.35	<EQL (2)	5.21	[452]	[0.24]	3.18	<EQL (5)	977
DCB 21B	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	114.91	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 21B	Monitoring Well	UTRA	16-Oct-2025	15.02	113.21	23-Oct-2025	112.33	0.6	2.5	21	1012	0	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 21B	Monitoring Well	UTRA	28-Oct-2025	14	114.23	23-Oct-2025	112.33	1	3.1	20.8	1008	0	85	2.6			20,400	<EQL (4)	[1.89]	15.6	36.3	1.64	105,000	6.69	86.1	102	279	6.99	24,800	1,800	0.401	133	2,330	5.09	<EQL (2)	8.11	406	[0.415]	1.12	<EQL (5)	281
DCB 21C	Monitoring Well	UTRA	12-Feb-2025	14.2	114.24	12-Feb-2025	114.24	11	2.4	16.8	896	0	479	3.83			16,800	<EQL (4)	2.92	16.2	41.2	1.46	116,000	6.69	83.8	17.3	1,050	<EQL (2)	21,400	[1,880]	0.206	111	2,480	14.3	<EQL (2)	[8.49]	506	[0.197]	[0.295]	<EQL (5)	239
DCB 21C	Monitoring Well	UTRA	29-Apr-2025	14.5	113.94	08-May-2025	113.34	2.3	3.7	19.2	960	0	305	1.8			19,200	<EQL (4)	2.47	17.6	45.5	1.44	122,000	2.89	69.8	7.45	233	<EQL (2)	23,600	1,750	0.468	104	2,510	7.16	<EQL (2)	9.69	[5.98]	[0.179]	[0.202]	<EQL (5)	182
DCB 21C	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	114.8	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 21C	Monitoring Well	UTRA	16-Oct-2025	16	112.44	23-Oct-2025	112.63	1.4	3	21.1	968	0	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 21C	Monitoring Well	UTRA	28-Oct-2025	15	113.44	23-Oct-2025	112.63	2.5	3.7	20	962	0	380	3.6			18,000	<EQL (4)	2.18	15.3	42.4	1.36	115,000	2.44	62.1	11.1	241	<EQL (2)	21,800	1,650	0.524	97.6	2250	5.73	<EQL (2)	8.89	461	[0.204]	[0.356]	[0.578]	161
DCB 22A	Monitoring Well	UTRA	12-Feb-2025	12.6	114.55	12-Feb-2025	114.55	2.8	2.4	14.5	1200	0	505	3.76			88,000	<EQL (4)	[1.39]	11	9.65	3.27	31,600	6.41	199	38.3	1,590	[0.845]	24,200	[5,240]	<EQL (0.2)	287	[1,620]	3.62	<EQL (2)	[113]	642	<EQL (2)	4.03	<EQL (5)	833
DCB 22A	Monitoring Well	UTRA	29-Apr-2025	13.09	114.06	08-May-2025	113.45	7.5	2.7	17.1	946	0	474	1.58			57,200	<EQL (4)	[0.787]	17.6	8.62	2.44	22,800	4.73	144	27	409	[1.19]	16,400	4,200	<EQL (0.2)	281	2,180	[1.17]	<EQL (2)	8.52	589	<EQL (2)	2.59	<EQL (5)	717
DCB 22A	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	114.59	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 22A	Monitoring Well	UTRA	28-Oct-2025	12	115.15	23-Oct-2025	112.22	5	3.5	20.6	1103	0	87	2.1			54,600	<EQL (4)	[1.69]	22	9.4	1.08	27,700	12	169	2.69	109,000	[1.48]	20,800	4,750	[0.098]	343	2,230	[1.47]	<EQL (2)	10.5	619	<EQL (2)	1.29	6.71	775
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	13-Feb-2025	111.48	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	08-May-2025	110.17	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	06-Aug-2025	110.95	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 23A	Piezometer Well	UTRA	16-Oct-2025	11.94	109.19	23-Oct-2025	108.43	242	4.9	22	90.5	0	0	0		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 22A	Monitoring Well	UTRA	28-Oct-2025	12	115.15	23-Oct-2025	112.22	5	3.5	20.6	1103	0	87	2.1			54,600	<EQL (4)	[1.69]	22	9.4	1.08	27,700	12	169	2.69	109,000	[1.48]	20,800	4,750	[0.098]	343	2,230	[1.47]	<EQL (2)	10.5	619	<EQL (2)	1.29	6.71	775
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	13-Feb-2025	111.48	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	08-May-2025	110.17	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	06-Aug-2025	110.95	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 23A	Piezometer Well	UTRA	NS	NS	NS	23-Oct-2025	104.64	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 26AR	Monitoring Well	UTRA	NS	NS	NS	13-Feb-2025	118.25	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 26AR	Monitoring Well	UTRA	27-May-2025	6.8	118.87	08-May-2025	117.47	1.9	4.9	19.4	142	0	NS	NS		DAG	109	<EQL (3)	<EQL (5)	19.2	[0.394]	<EQL (1)	3,620	<EQL (10)	2.91	[0.826]	125	<EQL (2)	836	5.85	<EQL (0.2)	[1.02]	880	<EQL (5)	<EQL (1)	23.1	47.6	<EQL (2)	<EQL (0.2)	<EQL (20)	[5.24]
DCB 26AR	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	116.47	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 26AR	Monitoring Well	UTRA	16-Oct-2025	8.21	117.46	23-Oct-2025	117.05	28.7	4.9	20.6	135	0	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 33B	Monitoring Well	UTRA	NS	NS	NS	13-Feb-2025	136.55	NS	NS	NS	NS	NS	NS	NS																												
DCB 33B	Monitoring Well	UTRA	27-May-2025	6.1	137.4	08-May-2025	135.85	1	5.1	19.5	70	3	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 33B	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	131.9	NS	NS	NS	NS	NS	NS	NS																												
DCB 33B	Monitoring Well	UTRA	19-Nov-2025	8.9	134.6	23-Oct-2025	135.25	6.5	5	15.4	68	2	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 34A	Monitoring Well	UTRA	12-Feb-2025	12.24	118.61	12-Feb-2025	118.61	0.9	3.4	20.1	452.5	0	409	1.57			26,800	<EQL (4)	[0.447]	26.2	6.42	[0.788]	8,280	3.73	62.7	43.7	365	2.38	4,320	[1,600]	0.834	70.5	2,040	2.71	<EQL (2)	[1.6]	199	[0.328]	11.8	<EQL (5)	178
DCB 34A	Monitoring Well	UTRA	30-Apr-2025	12.07	118.78	08-May-2025	118.69	0.6	3.4	20.9	418	0	404	4.76			26,600	<EQL (4)	[0.333]	26	6.04	[0.855]	8,320	3.73	62.9	43.9	243	2.46	4,180	1,600	0.617	67.1	2,010	[1.97]	<EQL (2)	[1.57]	177	[0.35]	9.88	<EQL (5)	172
DCB 34A	Monitoring Well	UTRA	22-May-2025	11.9	118.95	08-May-2025	118.69	0.8	3.5	19.7	403	0	257	4.5			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 34A	Monitoring Well	UTRA	NS	NS	NS	06-Aug-2025	117.65	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 34A	Monitoring Well	UTRA	15-Oct-2025	12.42	118.43	23-Oct-2025	118.24	0.6	3.2	21.5	429	0	NS	NS		PFAS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DCB 34A	Monitoring Well	UTRA	29-Oct-2025	12.44	118.41	23-Oct-2025	118.24	0.6	3.5	21.4	424	0	439	5.76			23,900	<EQL (4)	[0.336]	26.1	6.51	[0.768]	8,630	3.09	65.8	37.1	243	<EQL (2)	4,320	1,650	0.705	68	[1,950]	[1.89]	<EQL (2)	[1.77]	172	[0.385]	11.1	<EQL (5)	167
DCB 34C	Monitoring Well	UTRA	12-Feb-2025	11.68	118.85	12-Feb-2025	118.85	0.8	3.5	21	443.5	0	408	1.69			7,870	<EQL (4)	[0.289]	26.1	22.1	[0.684]	40,600	3.49	24.5	10.7	487	<EQL (2)	7,550	[559]	<EQL (0.2)	45.4	[1,900]	[1.33]	<EQL (2)	[2.1]	195	<EQL (2)	1.01	<EQL (5)	161
DCB 34C	Monitoring Well	UTRA	30-Apr-2025	11.85	118.68	08-May-2025	118.51	0.5	3.8	21.5	44	0	409	3			7,160	<EQL (4)	[0.184]	28.8	22.2	[0.803]	40,600	4.41

Table A-1. D-Area Groundwater Treatability Study Data Table (2025); (*continued/end*)

| | | | Field Data | | | | | | | | | | | | | | | Inorganics | | | | | | | | | | | | | | |

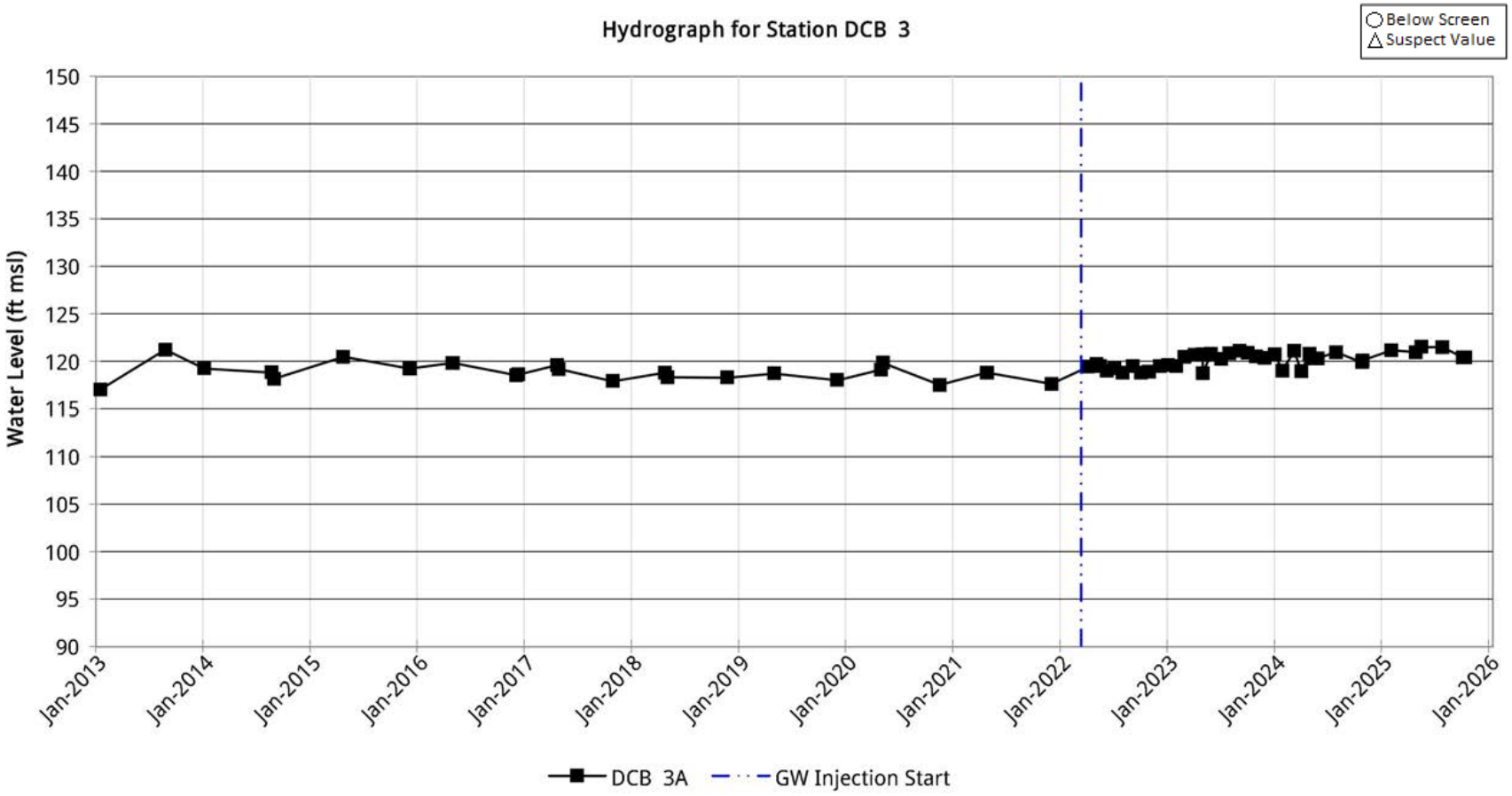
Table A-2. D-Area Groundwater Treatability Study Data Table (2020)

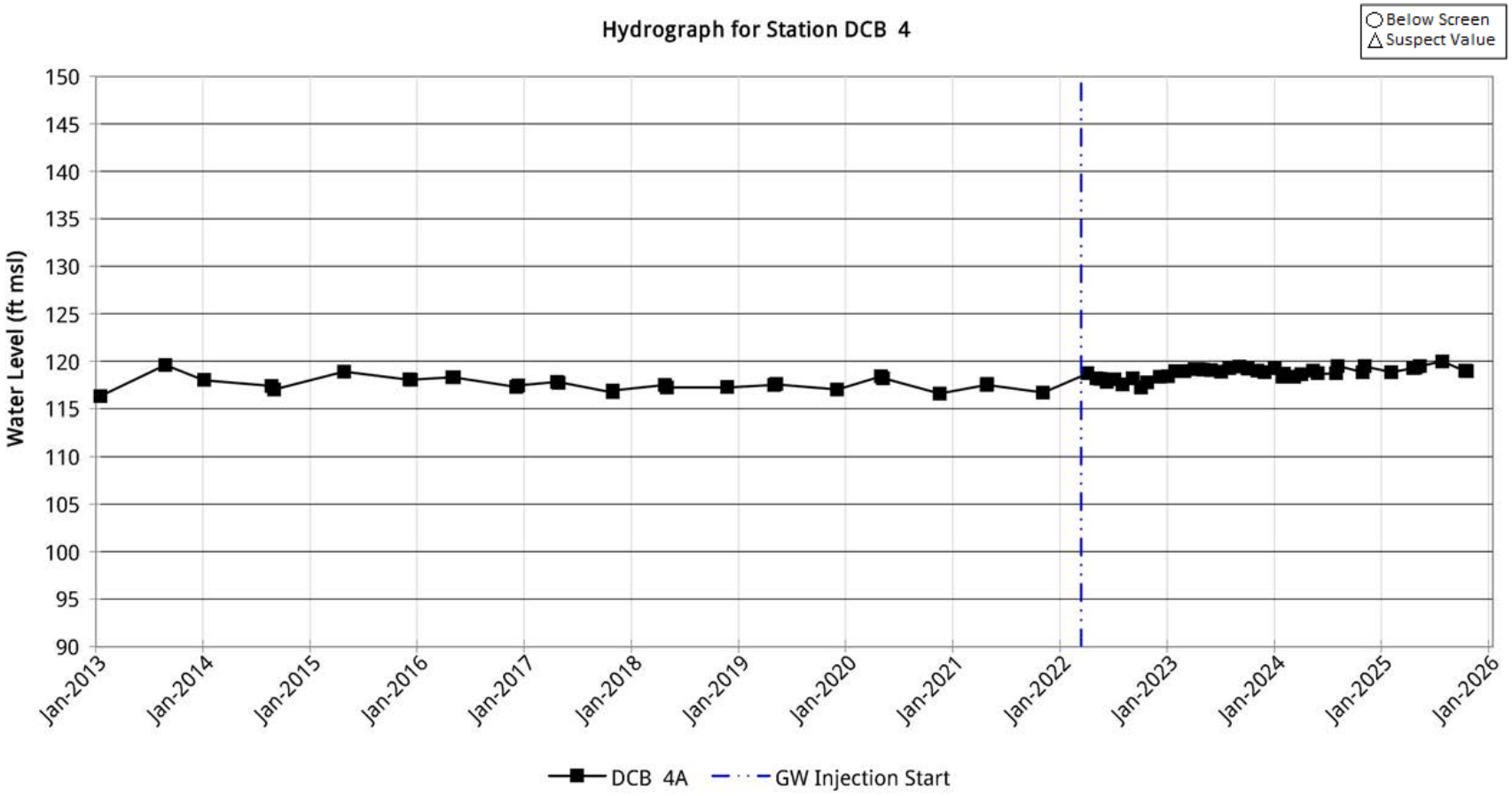
| | | | Field Data | | | | | | | | | | | | | | D Area Analyte Suite | | | | | | | | | | | | | |

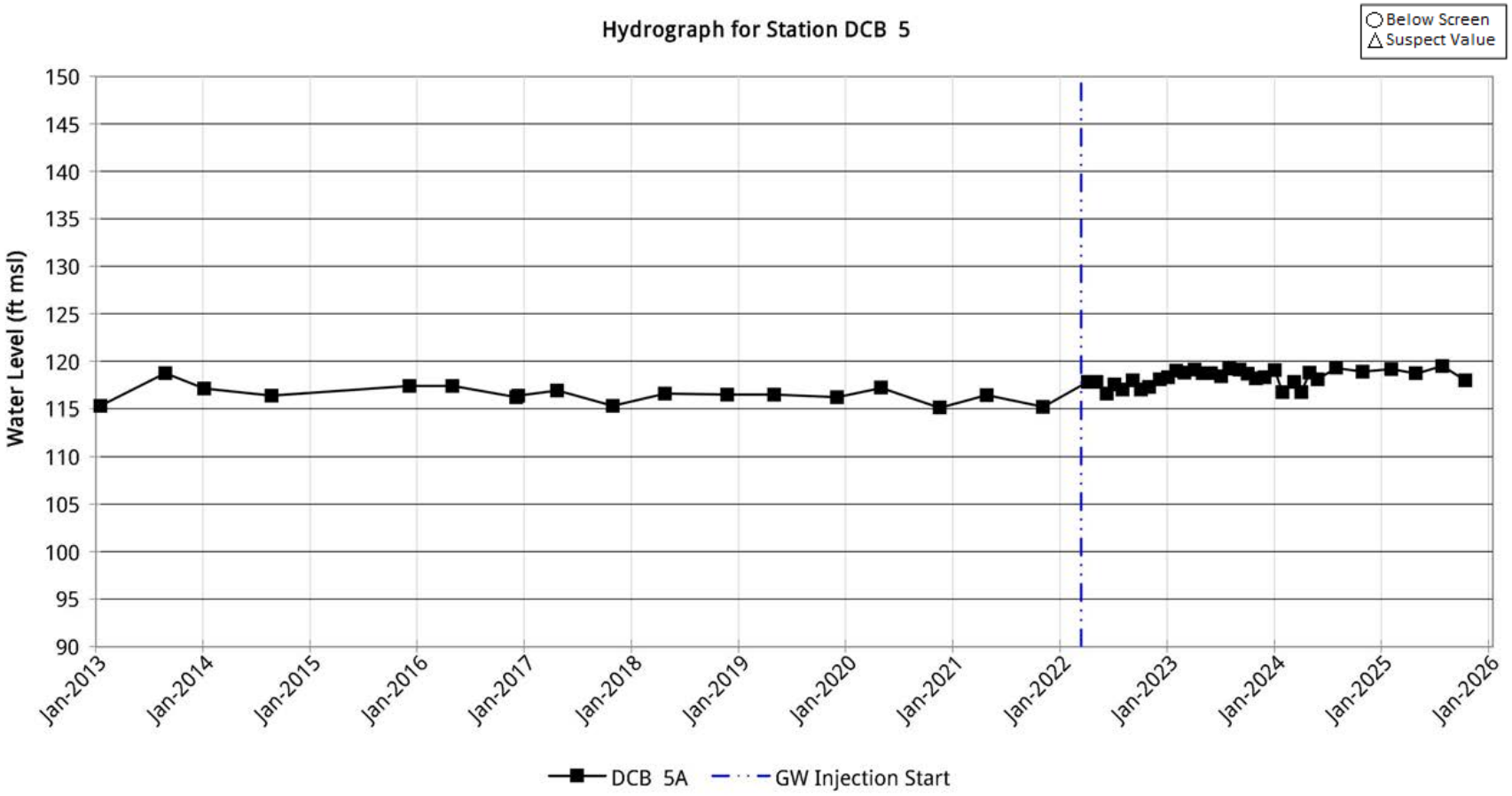
Appendix B

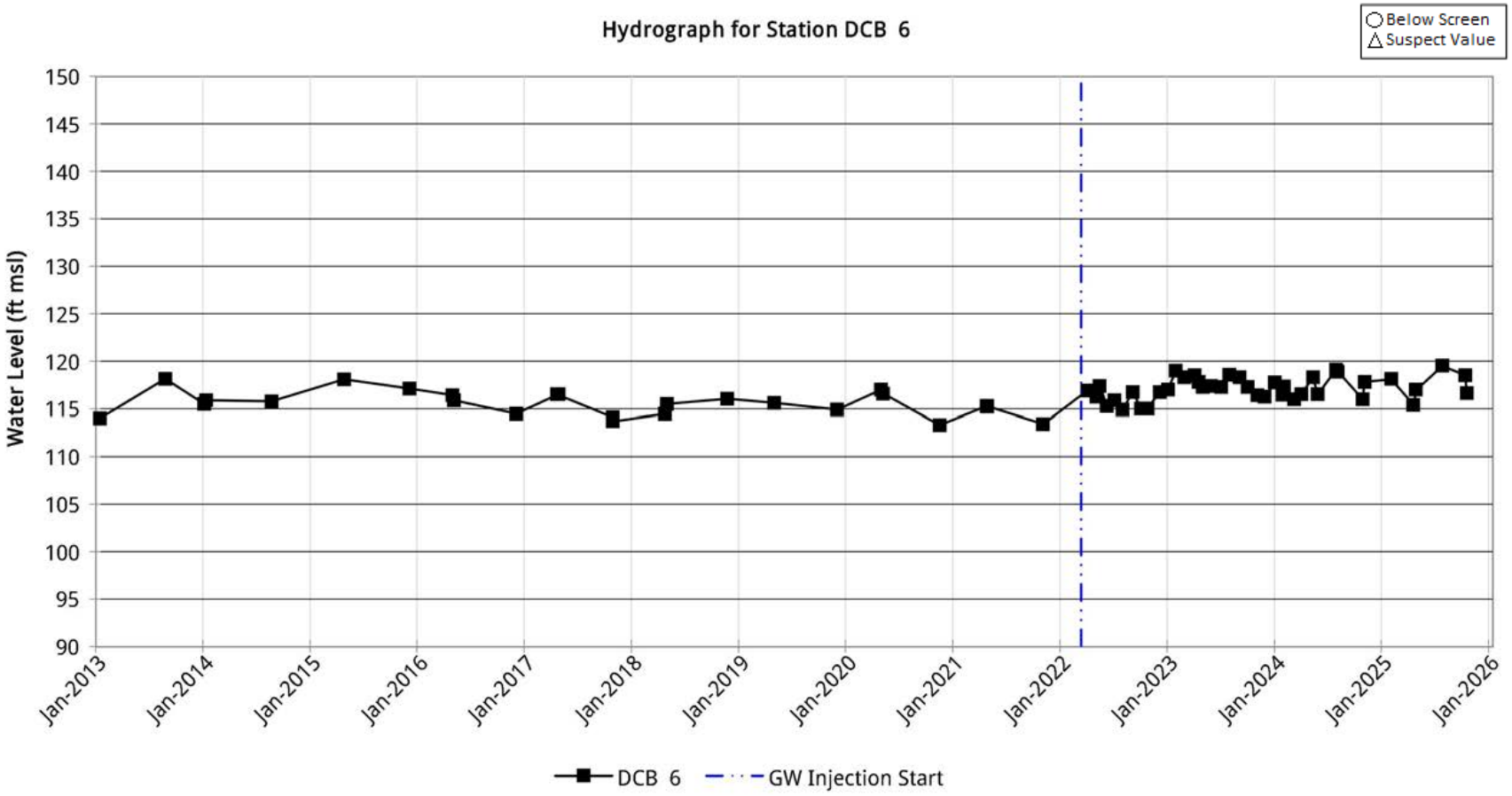
Water Level Hydrographs

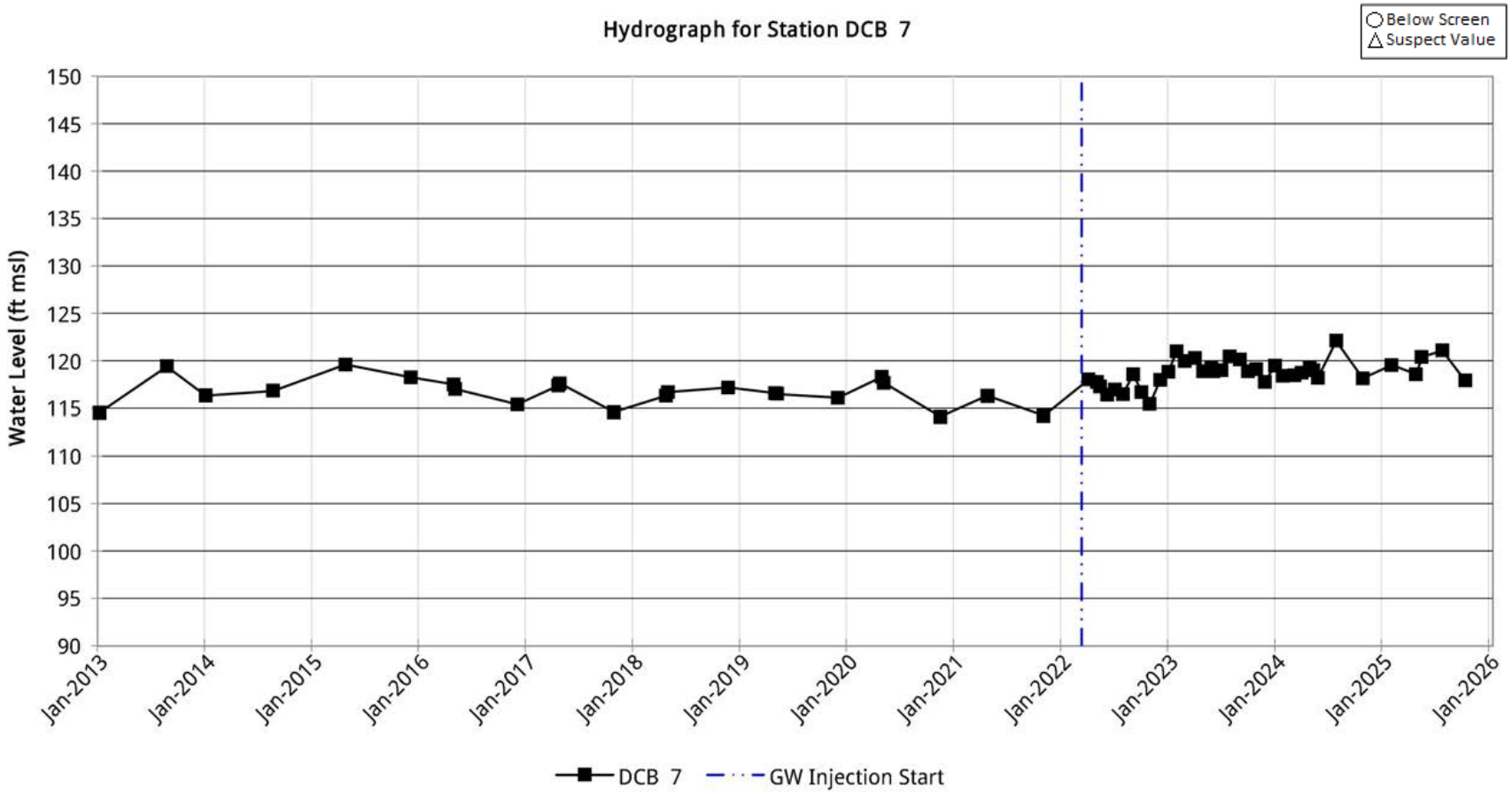
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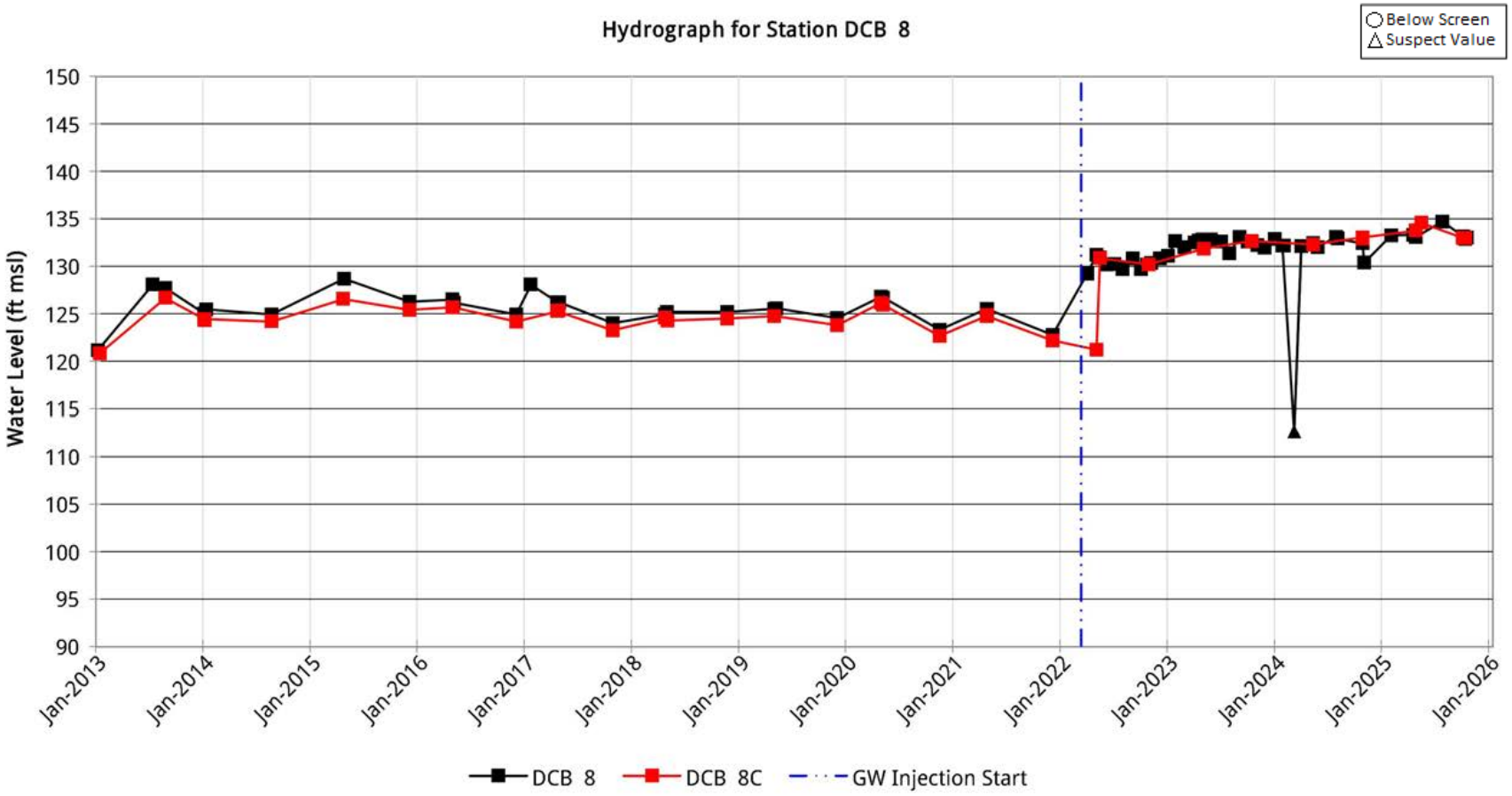

Hydrograph for Station DCB 3
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
GW Injection Start

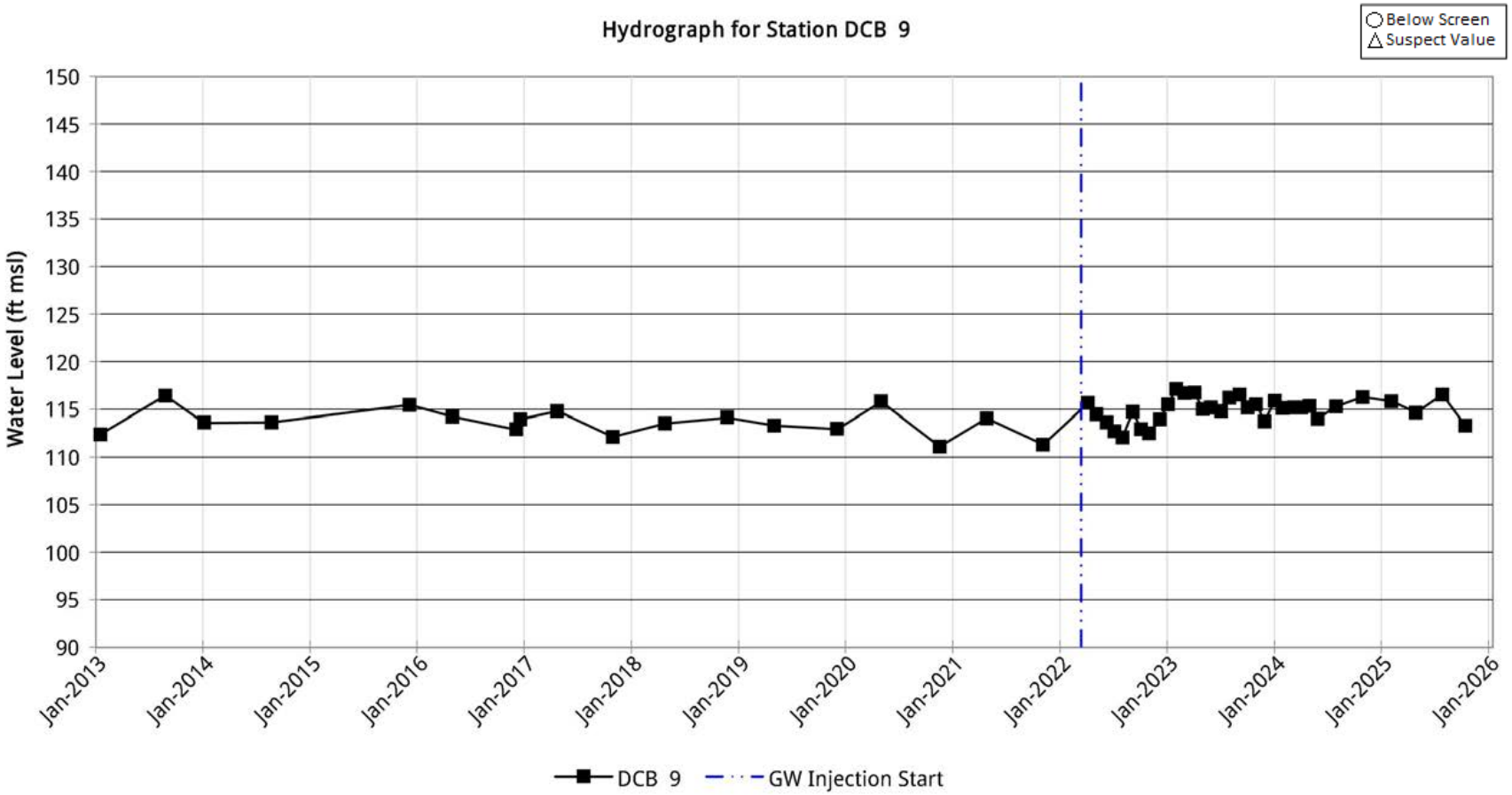

Hydrograph for Station DCB 4
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
GW Injection Start

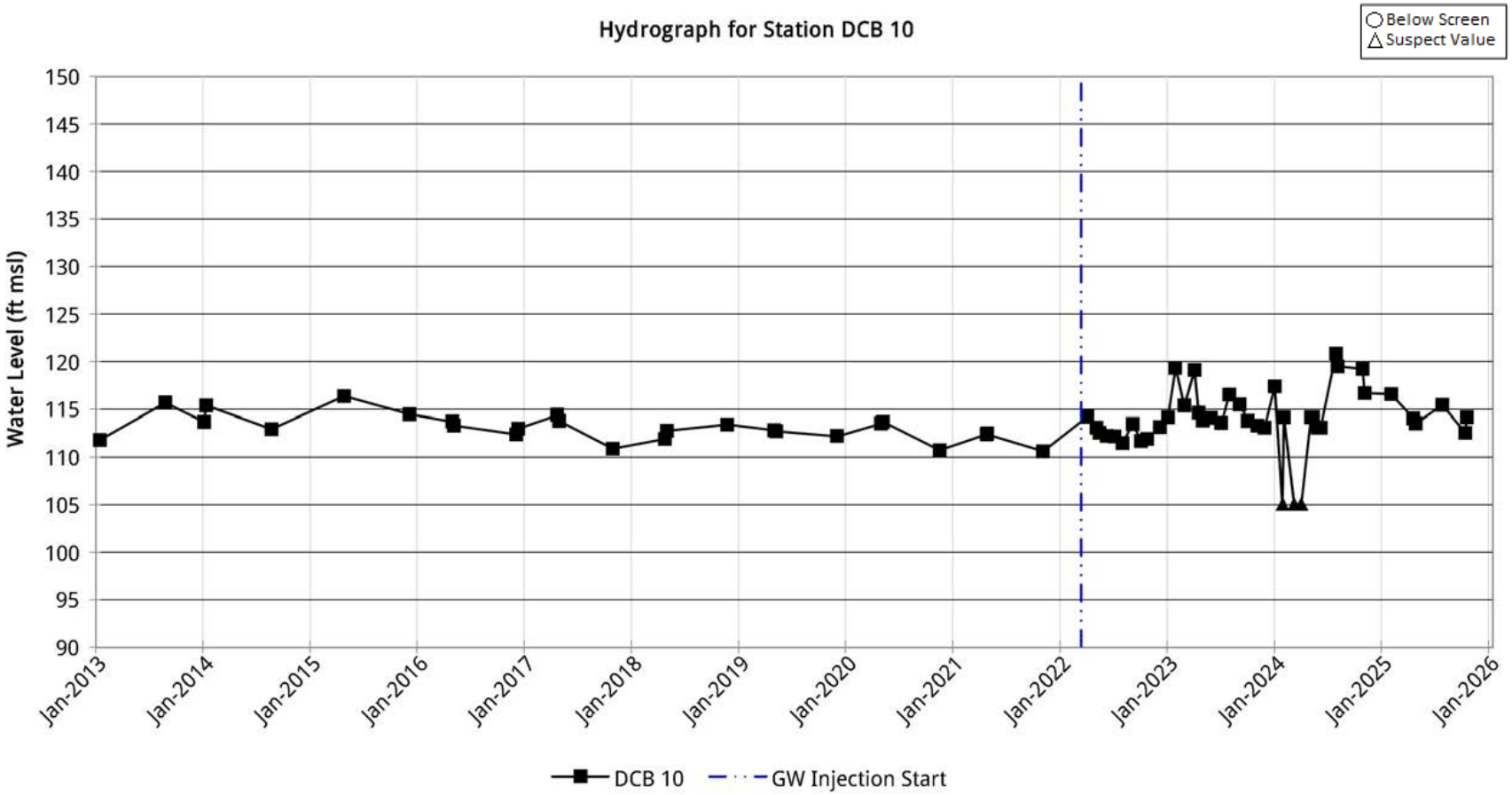

Hydrograph for Station DCB 5
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 5A
GW Injection Start

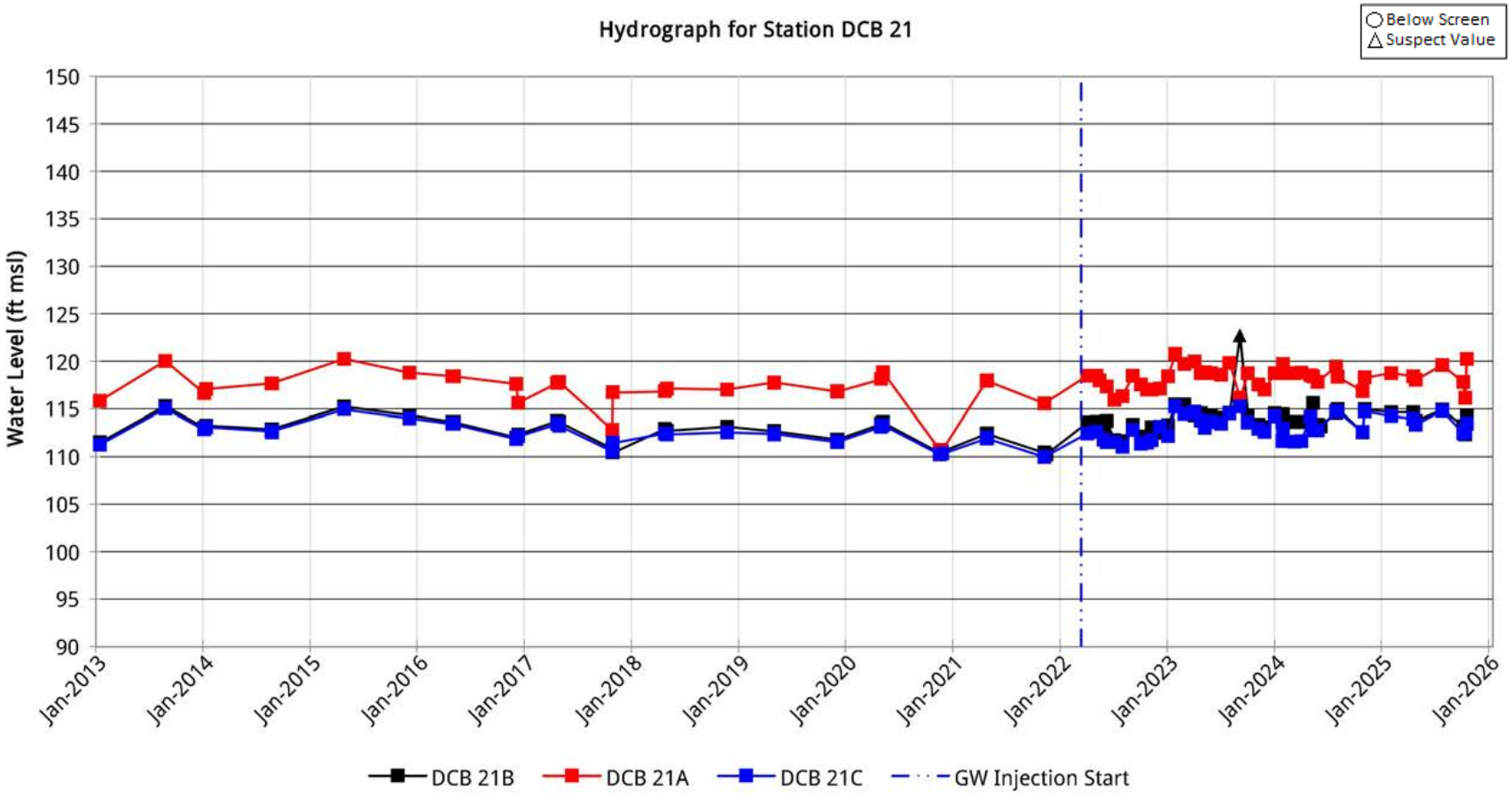

Hydrograph for Station DCB 6
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
GW Injection Start

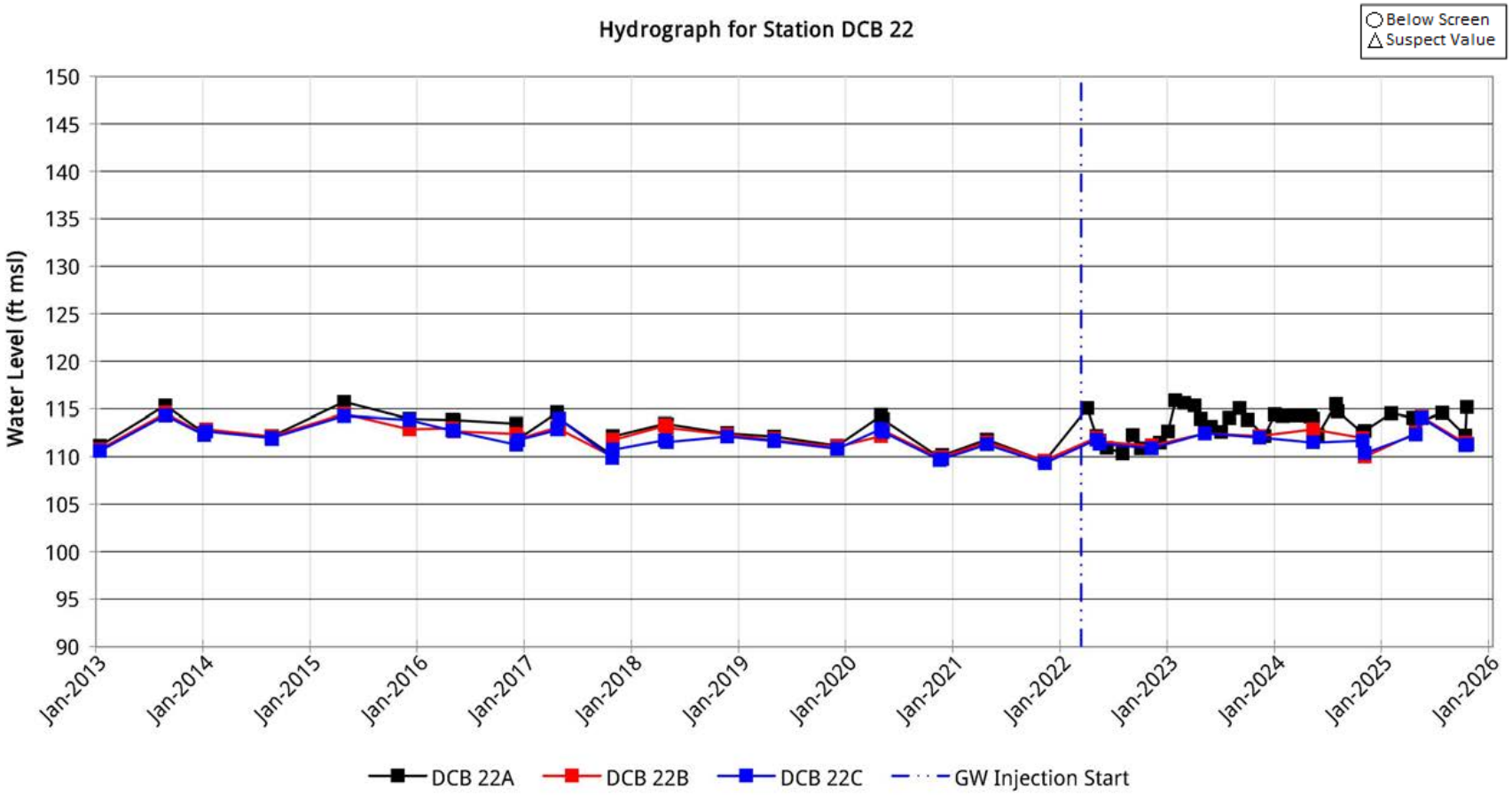

Hydrograph for Station DCB 7
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 7
GW Injection Start

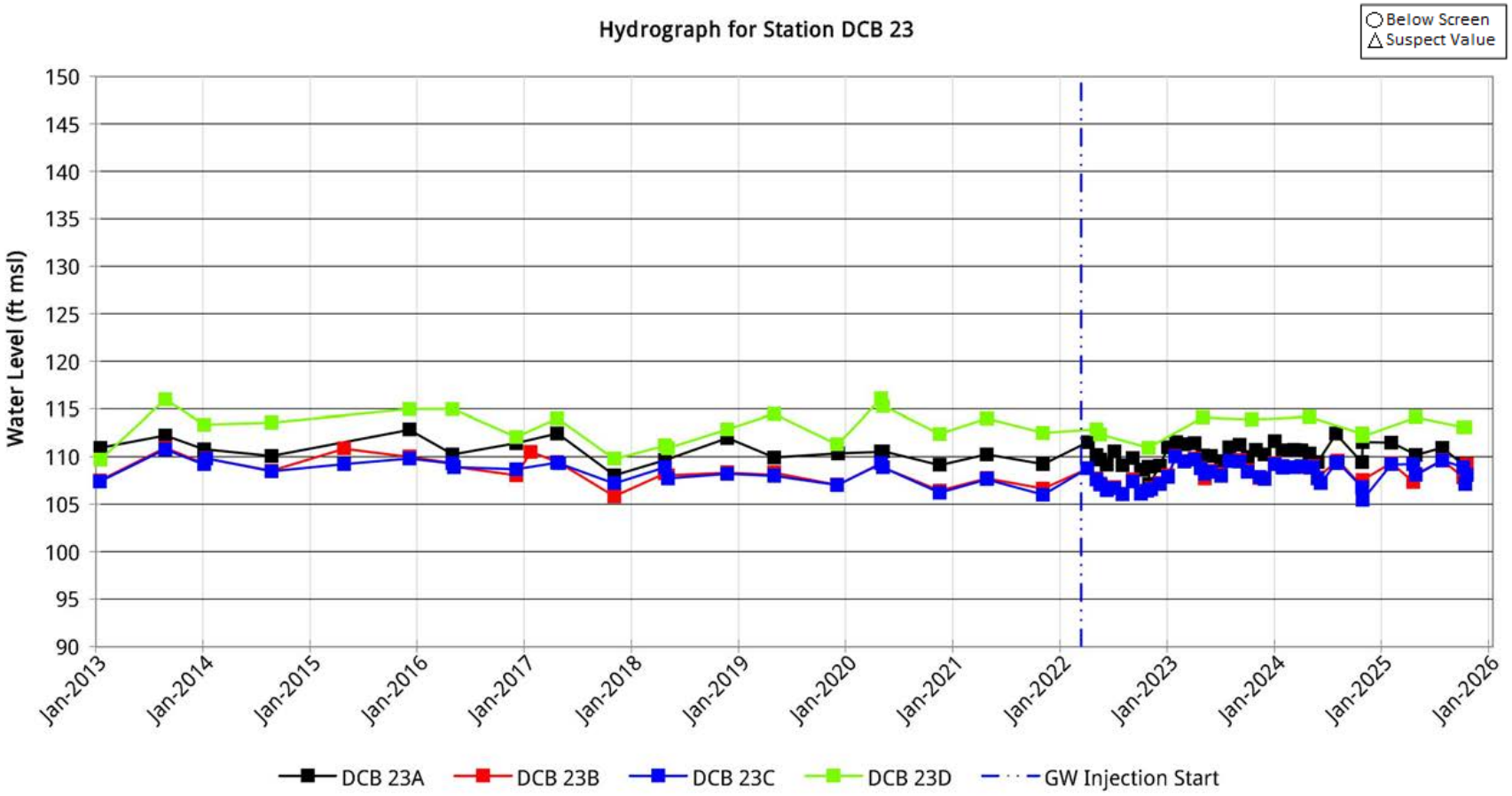

Hydrograph for Station DCB 8
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
GW Injection Start

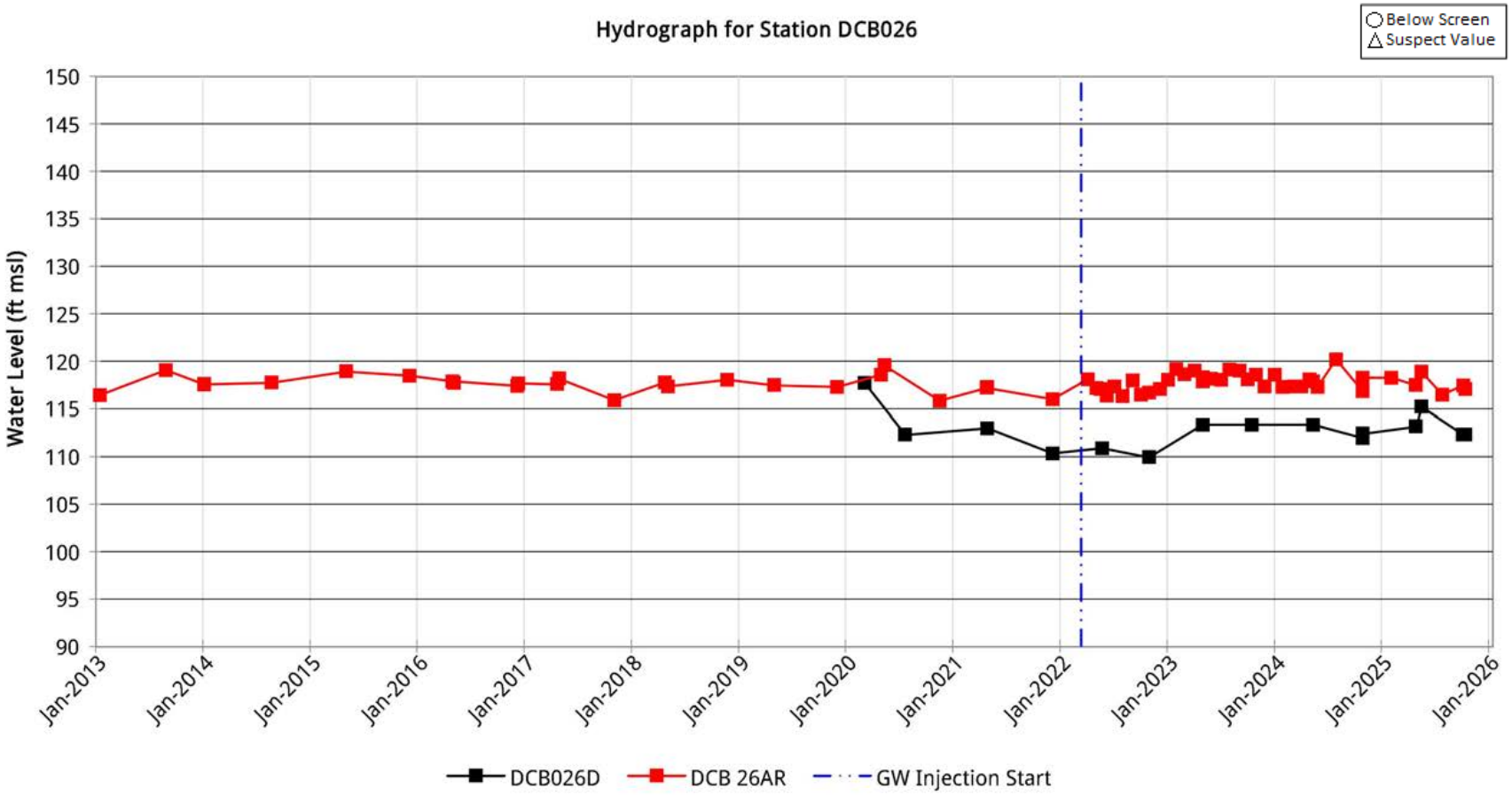

Hydrograph for Station DCB 9
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 9
GW Injection Start

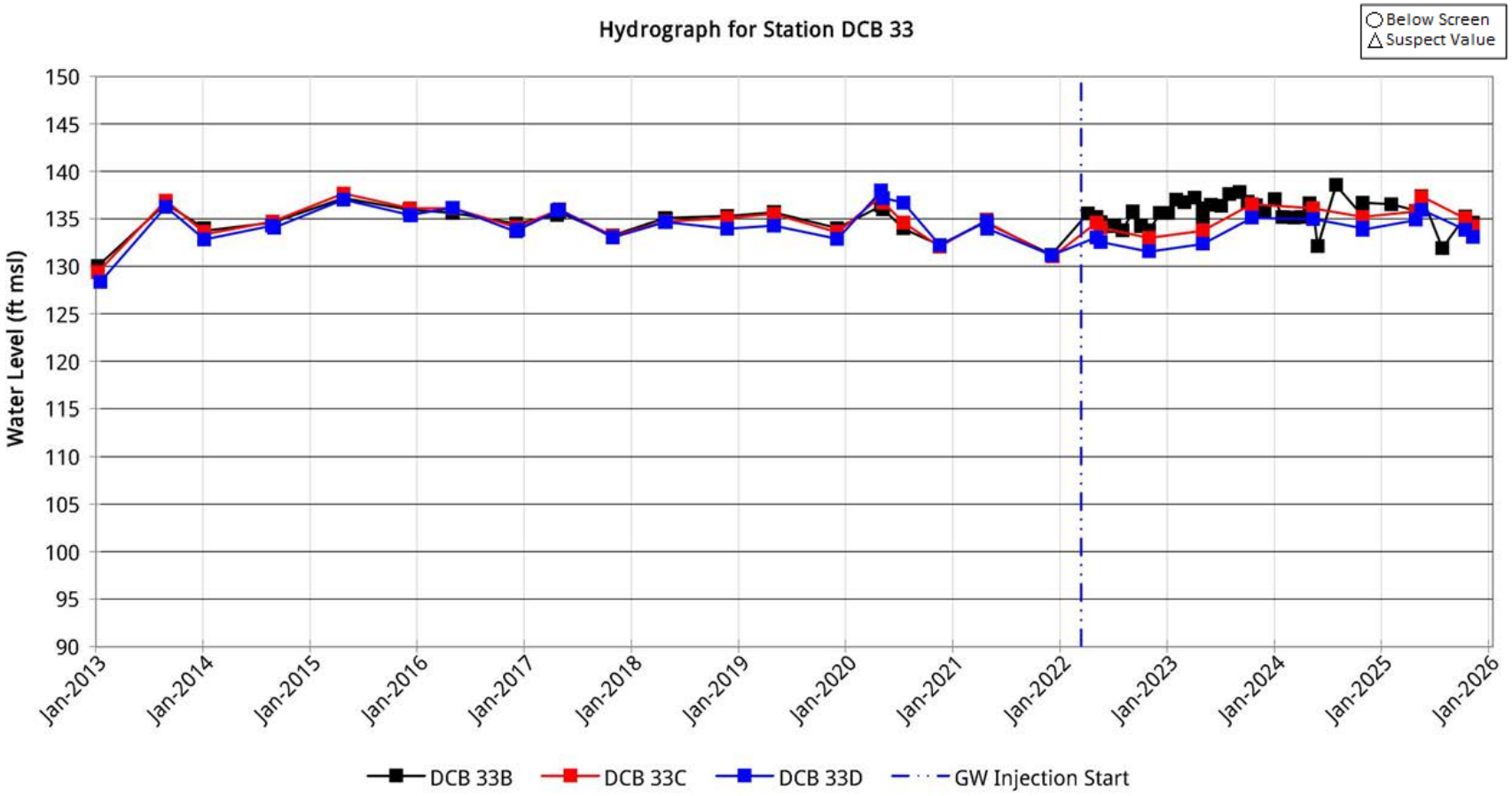

Hydrograph for Station DCB 10
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
GW Injection Start

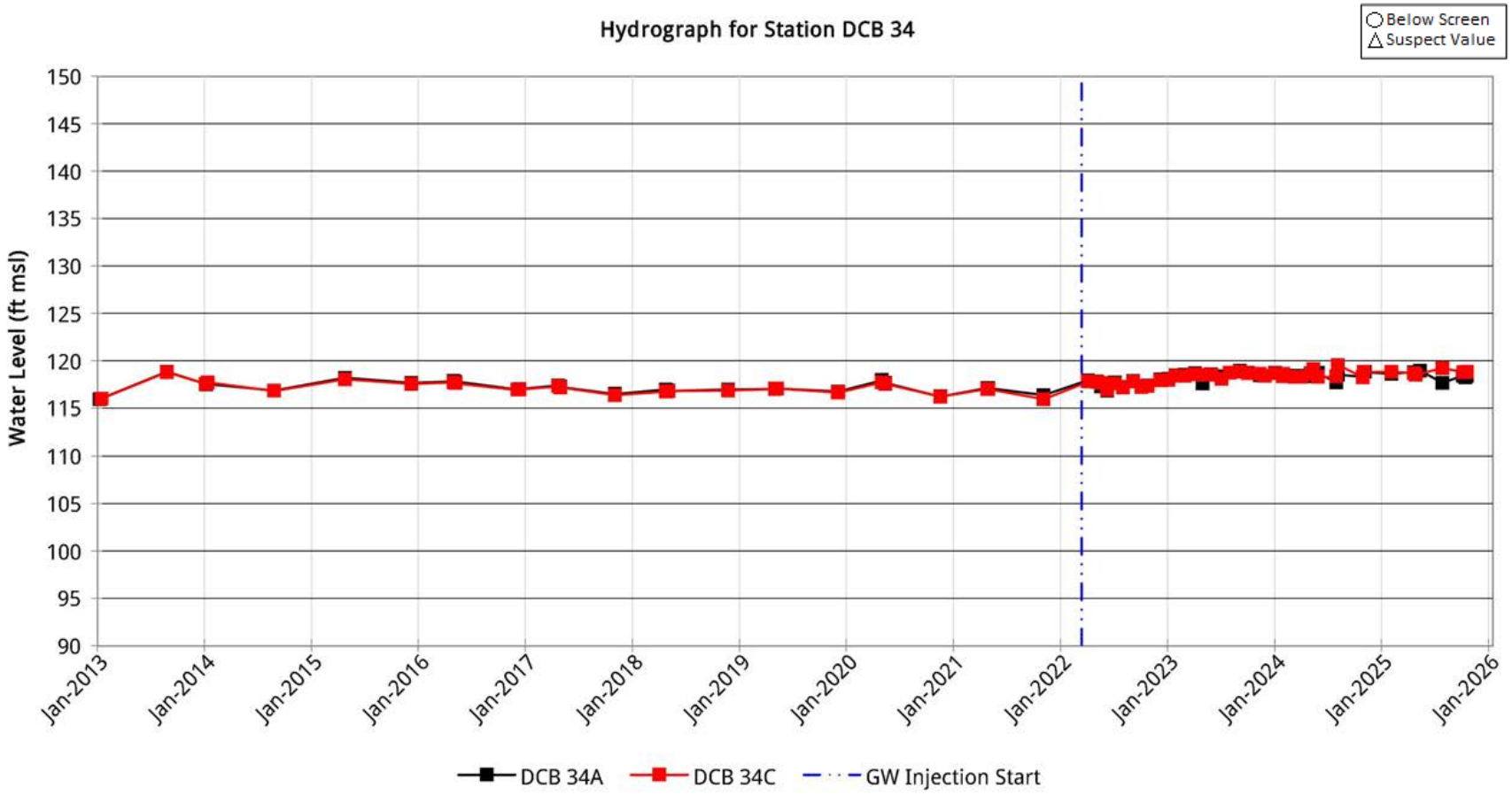

Hydrograph for Station DCB 21
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
GW Injection Start

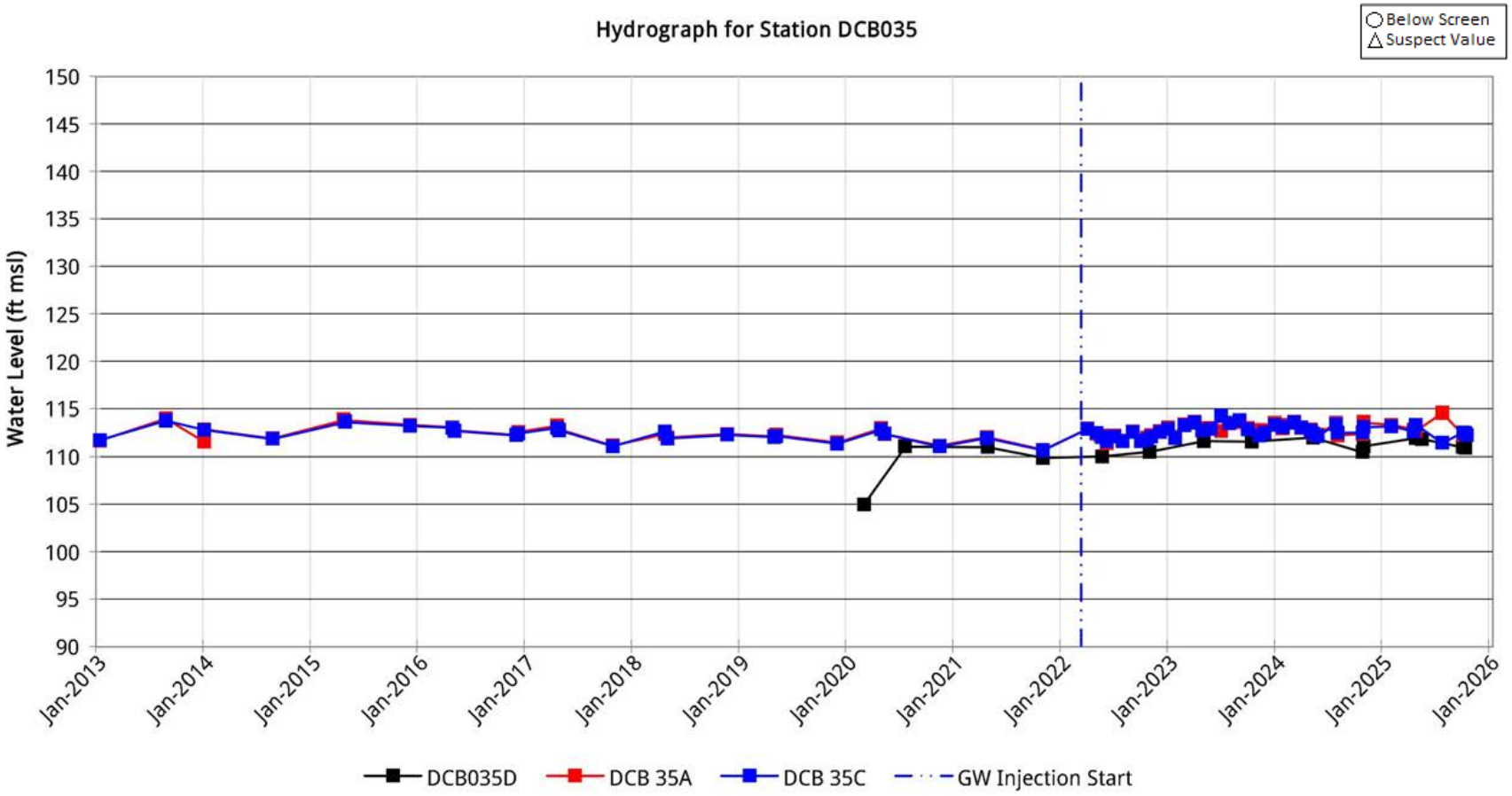

Hydrograph for Station DCB 22
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
GW Injection Start

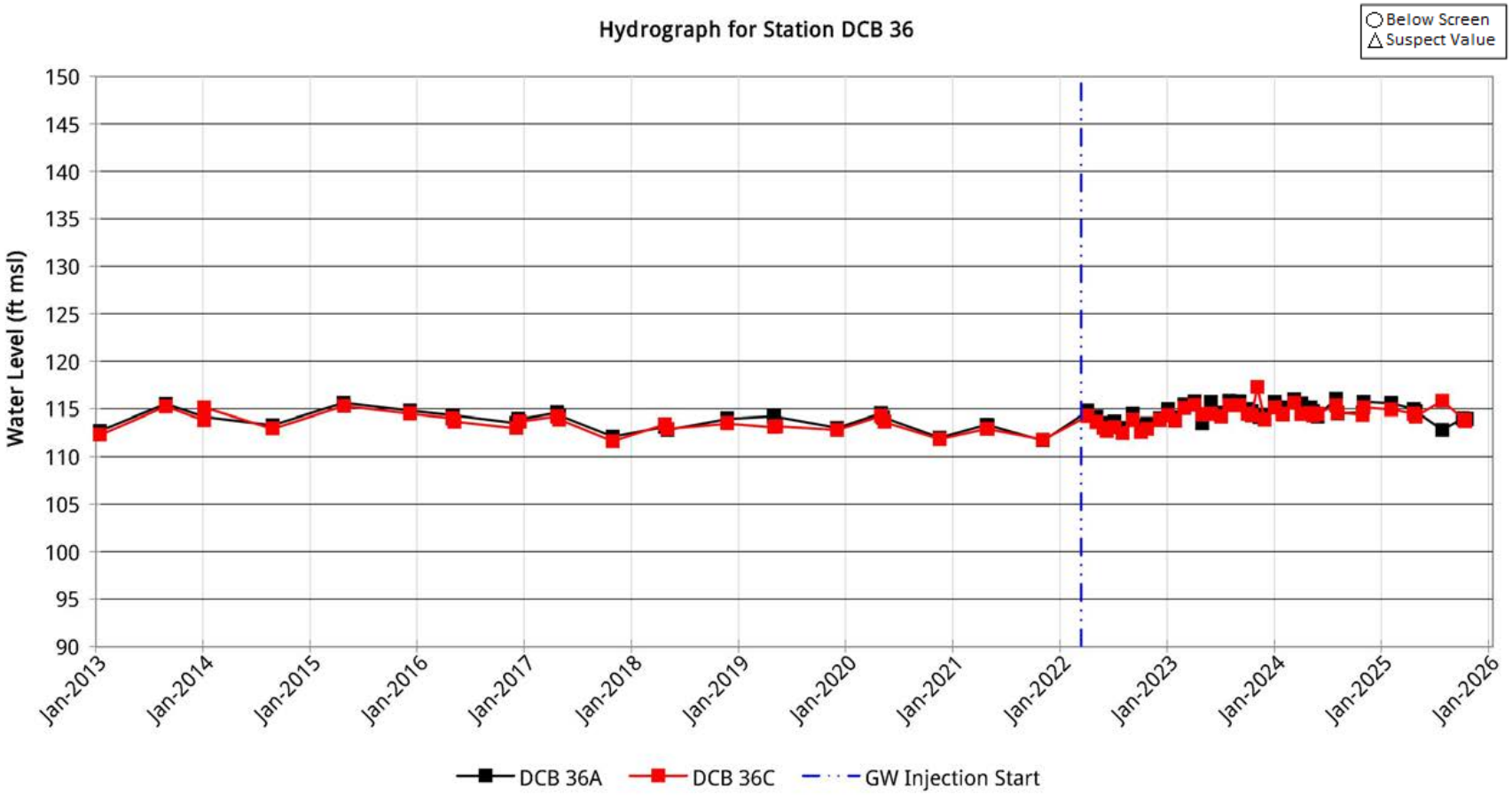

Hydrograph for Station DCB 23
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
GW Injection Start

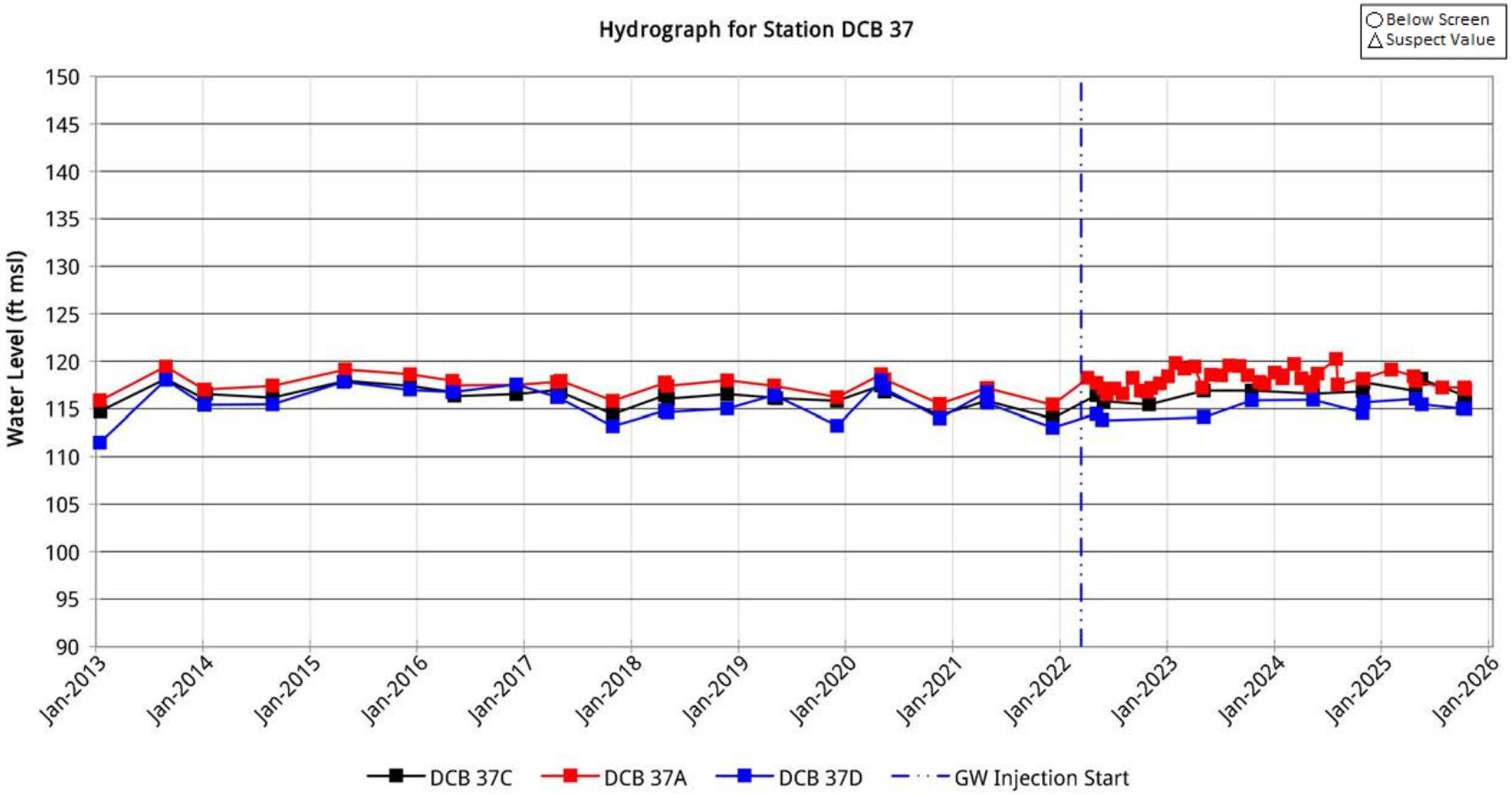

Hydrograph for Station DCB026
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
GW Injection Start

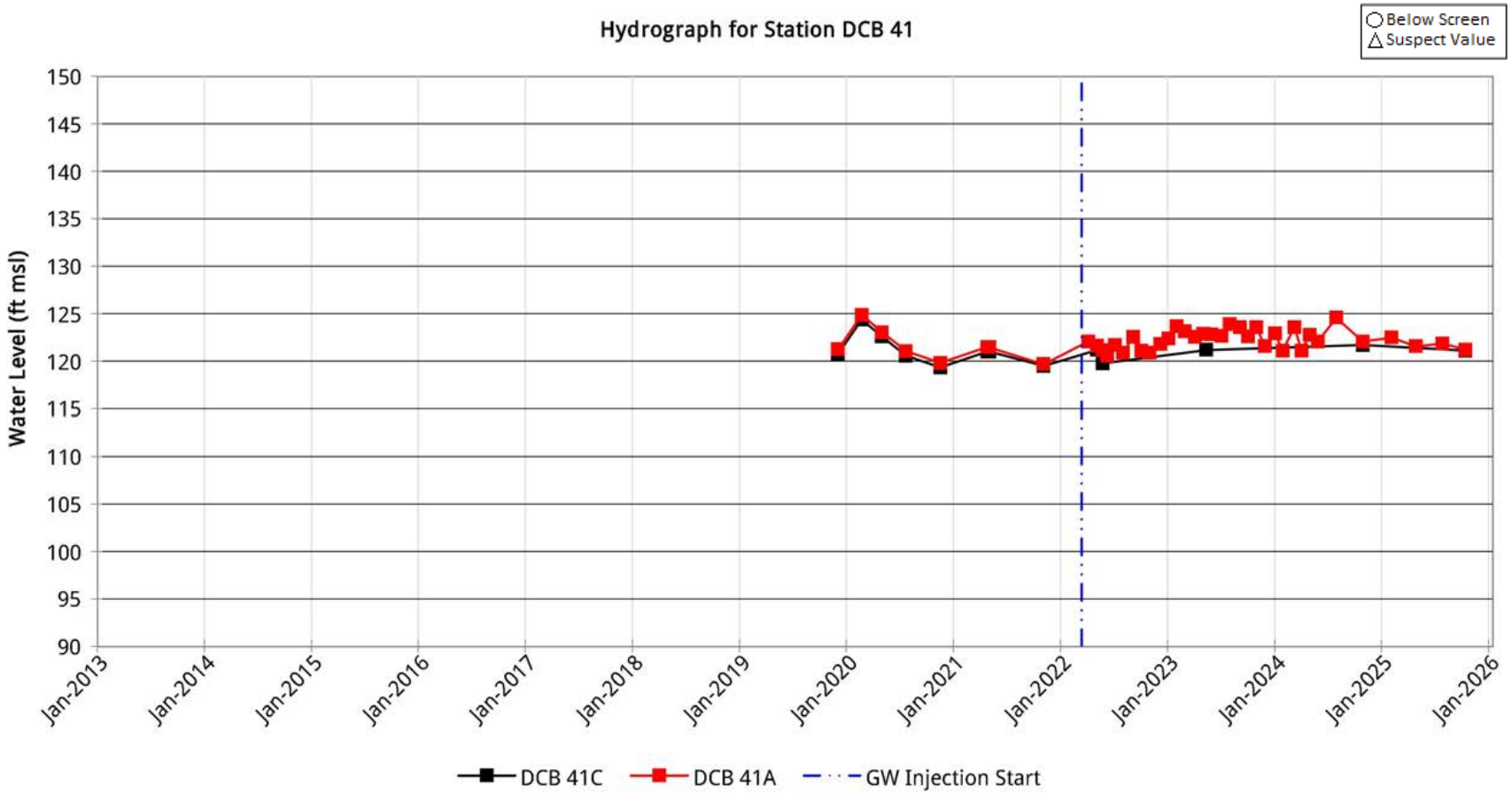

Hydrograph for Station DCB 33
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 33B
DCB 33C
DCB 33D
GW Injection Start

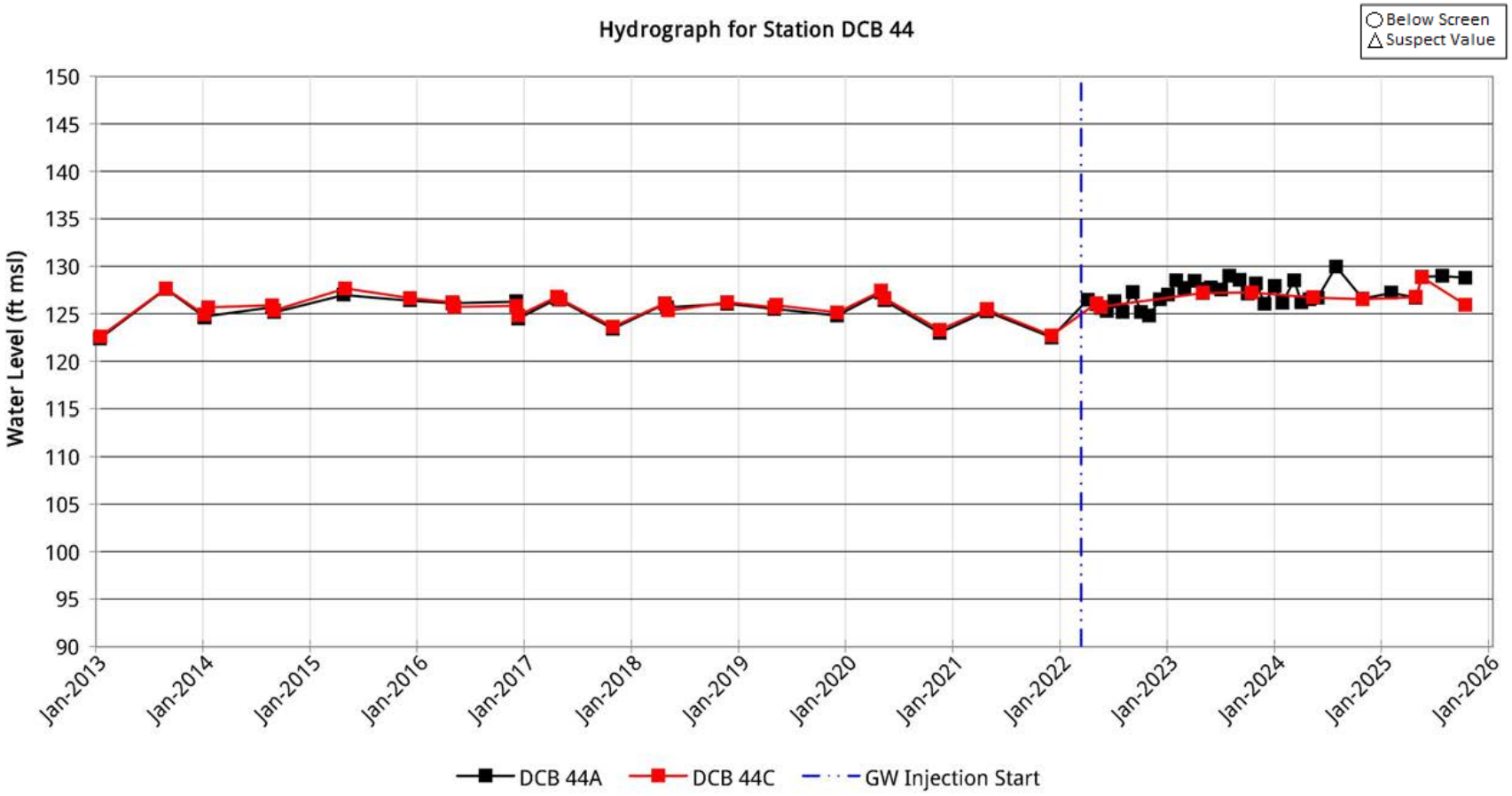

Hydrograph for Station DCB 34
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
GW Injection Start

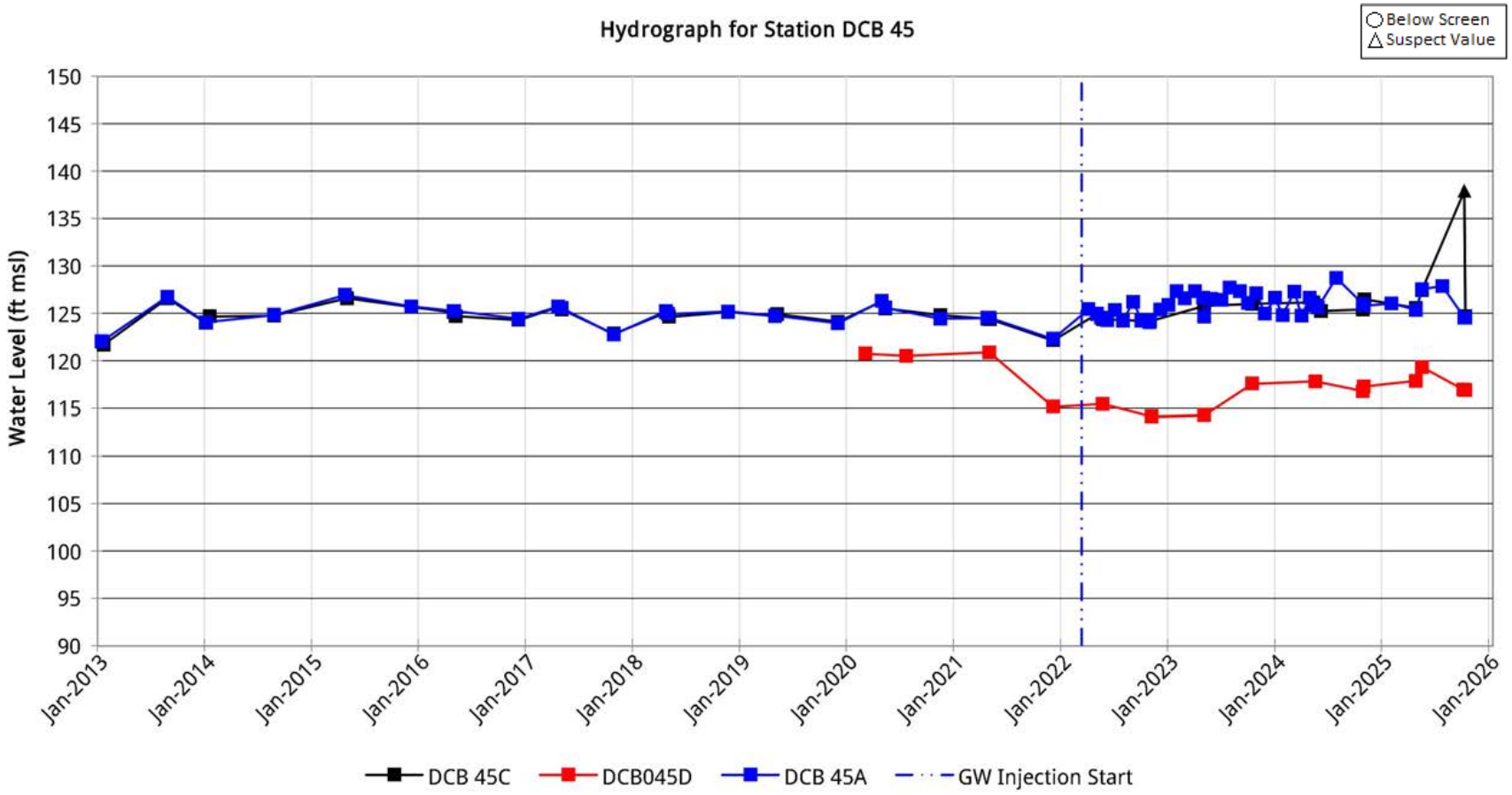

Hydrograph for Station DCB035
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
GW Injection Start

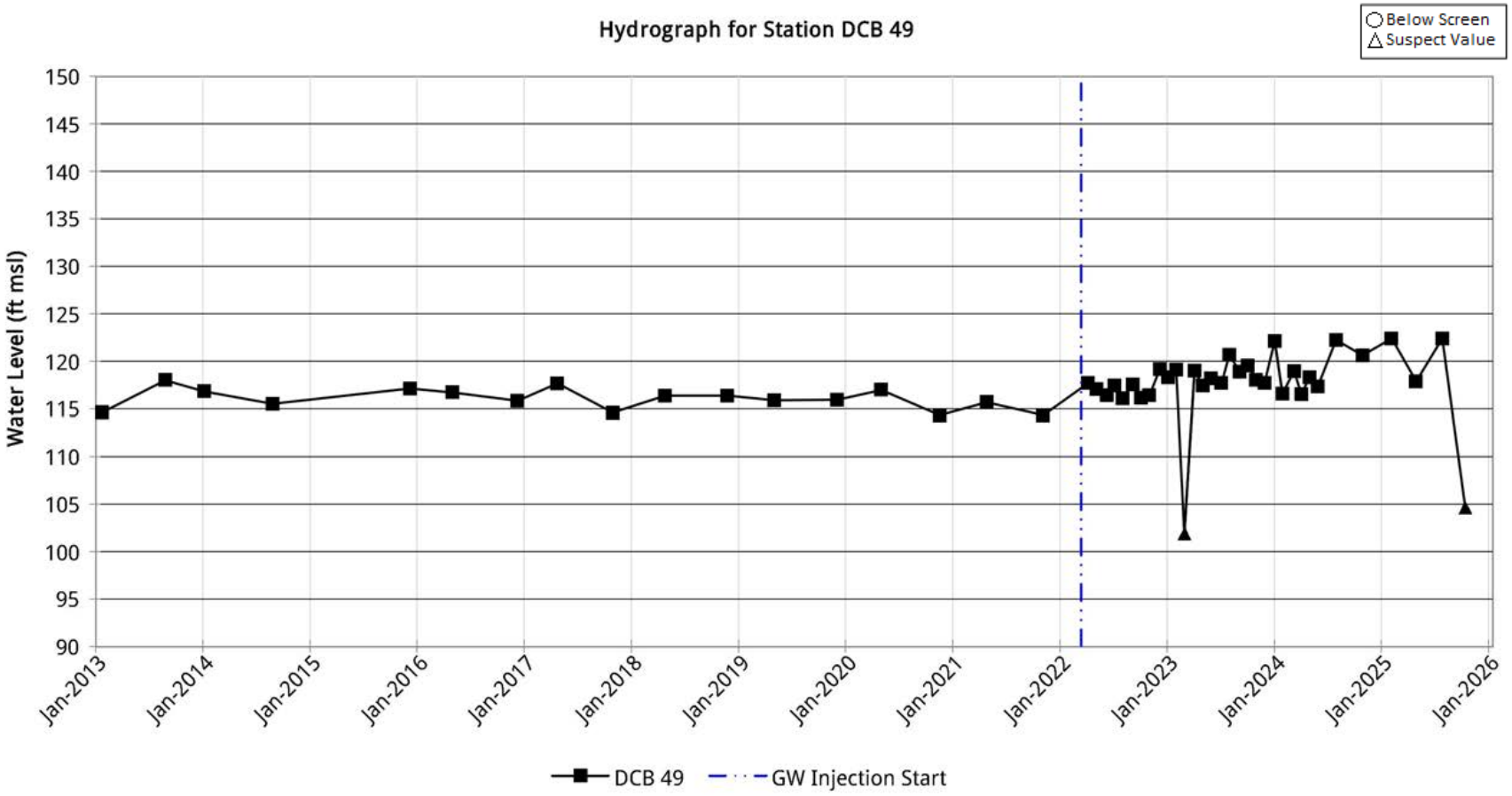

Hydrograph for Station DCB 36
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
GW Injection Start

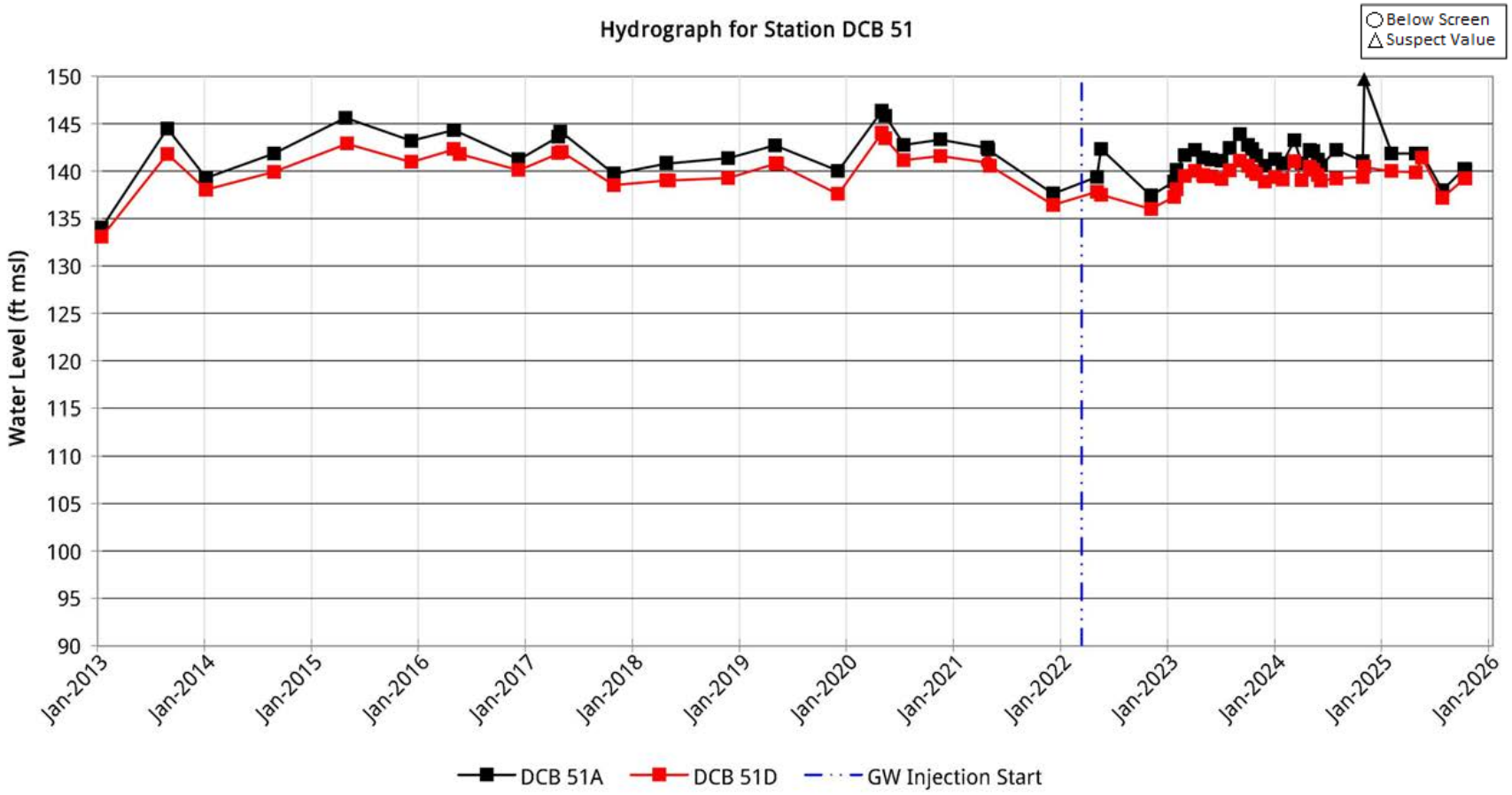

Hydrograph for Station DCB 37
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
DCB 37D
GW Injection Start

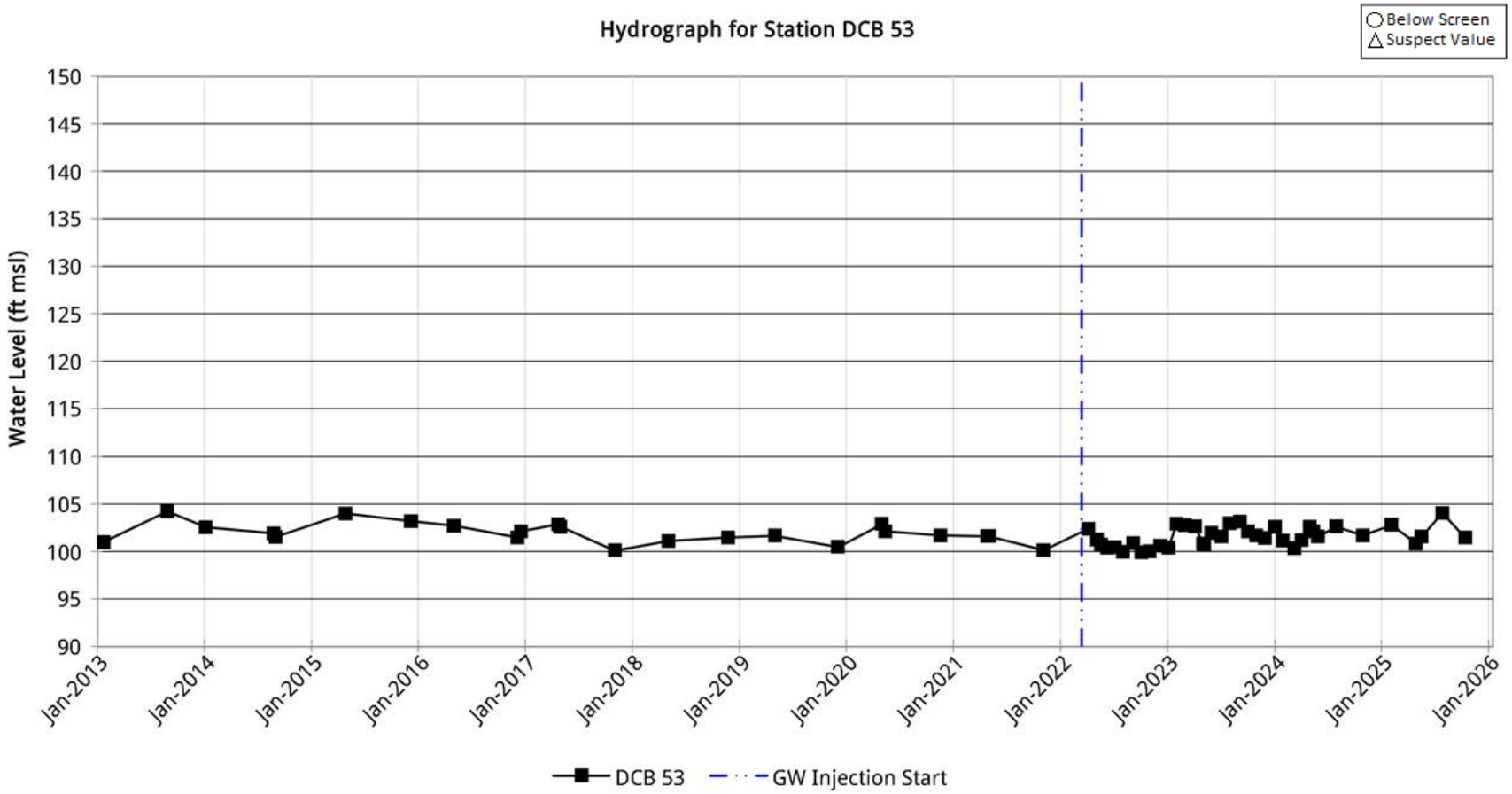

Hydrograph for Station DCB 41
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 41C
DCB 41A
GW Injection Start

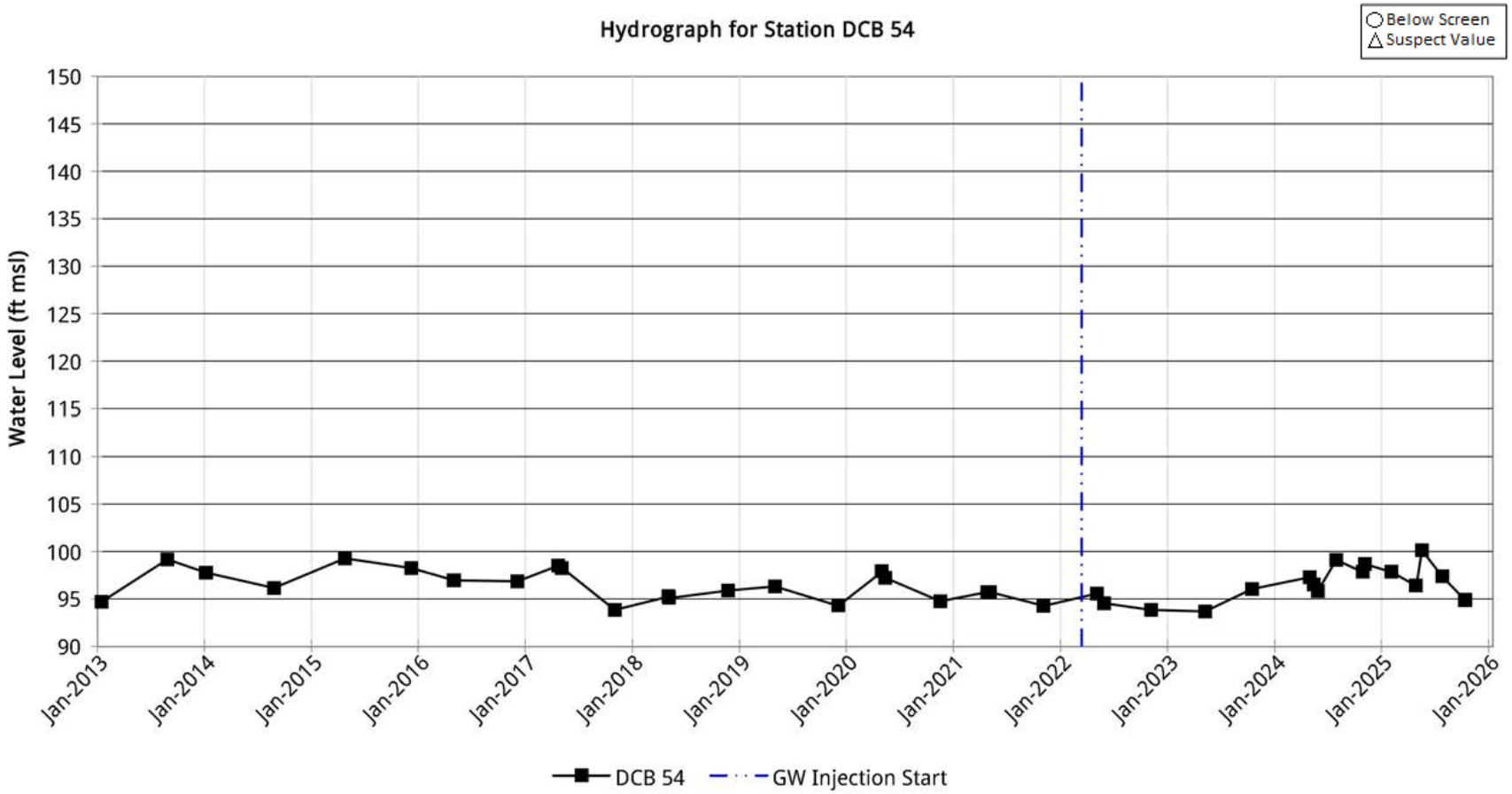

Hydrograph for Station DCB 44
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 44A
DCB 44C
GW Injection Start

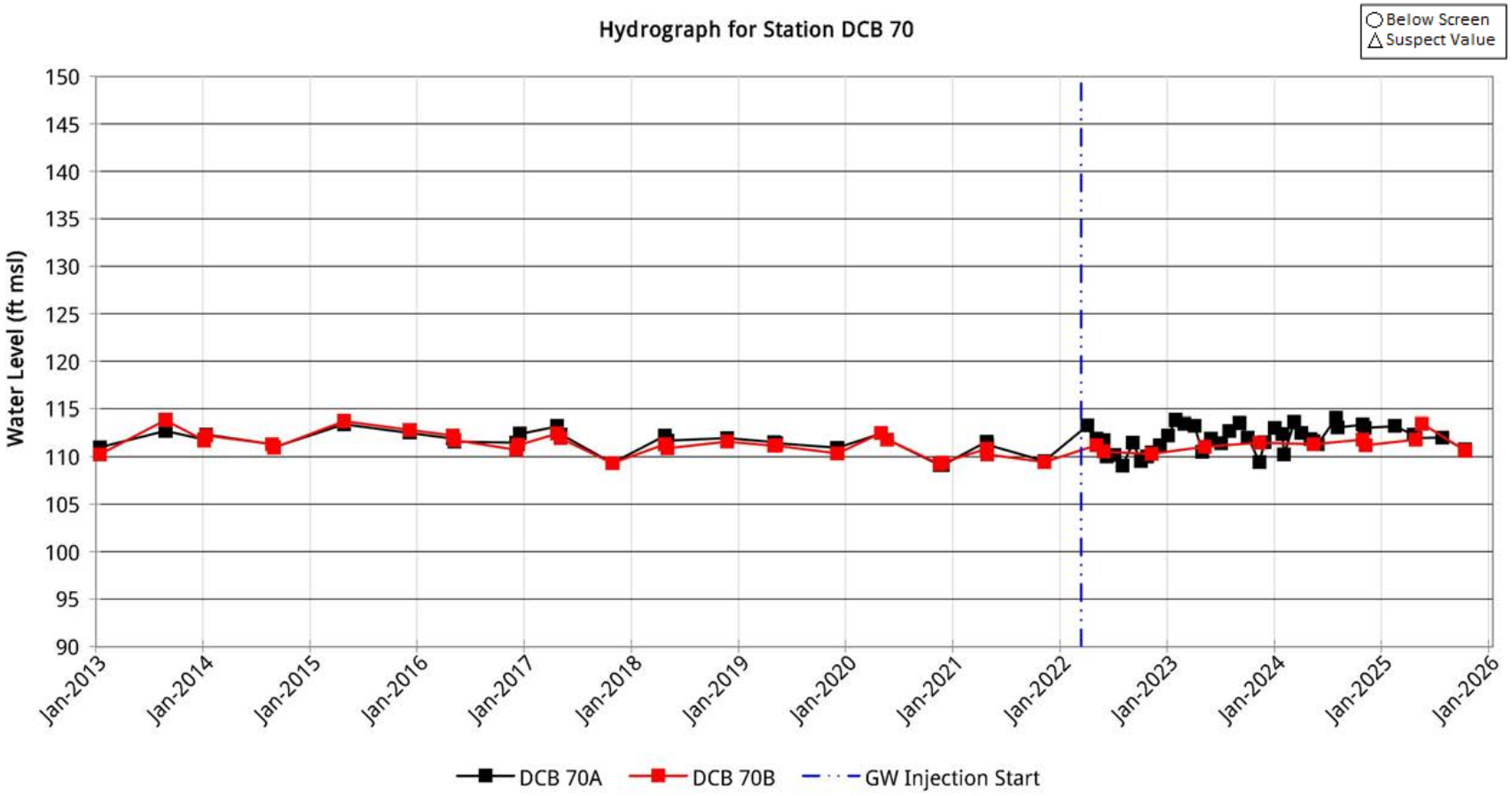

Hydrograph for Station DCB 45
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 45C
DCB045D
DCB 45A
GW Injection Start

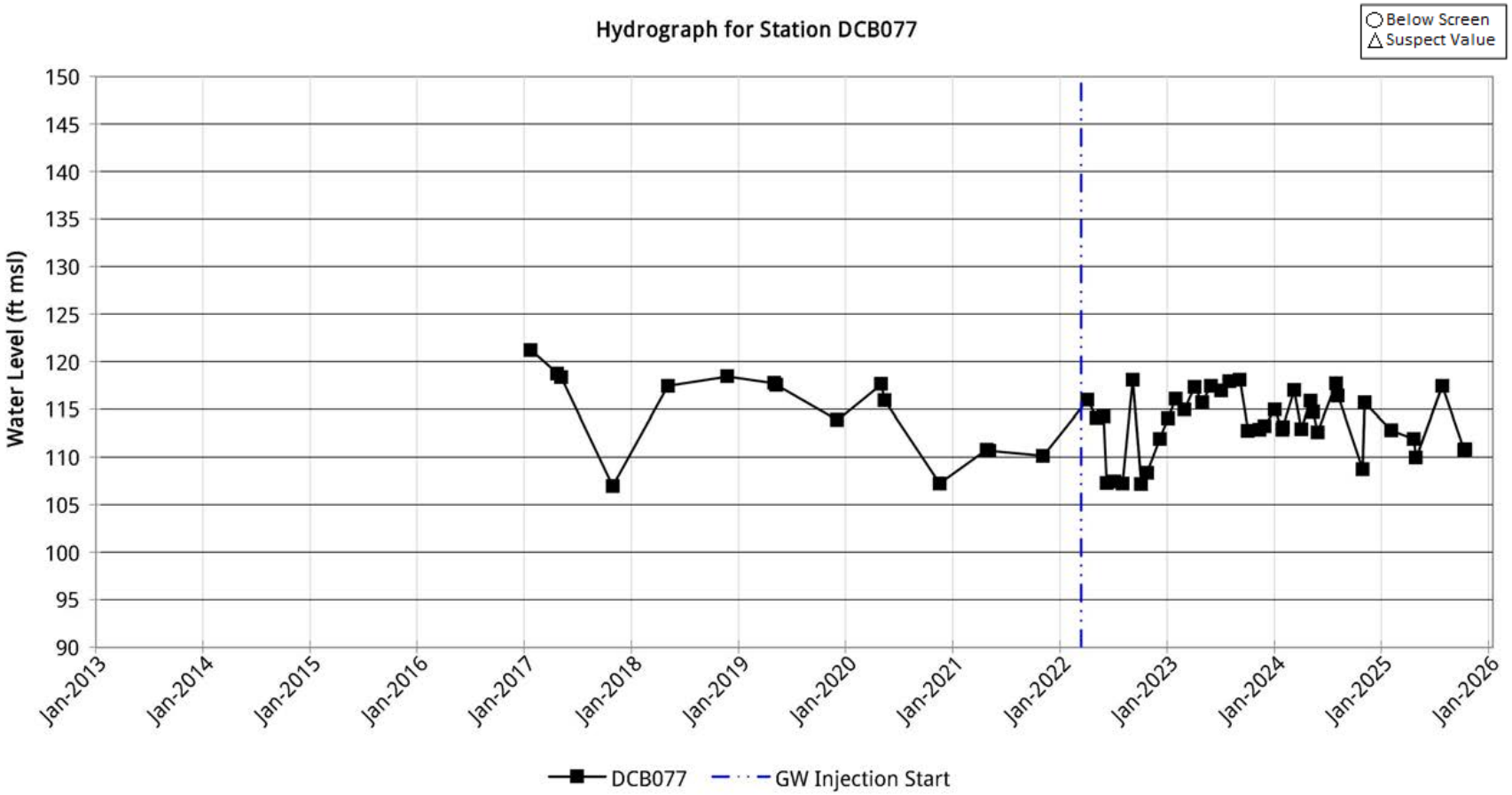

Hydrograph for Station DCB 49
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 49
GW Injection Start

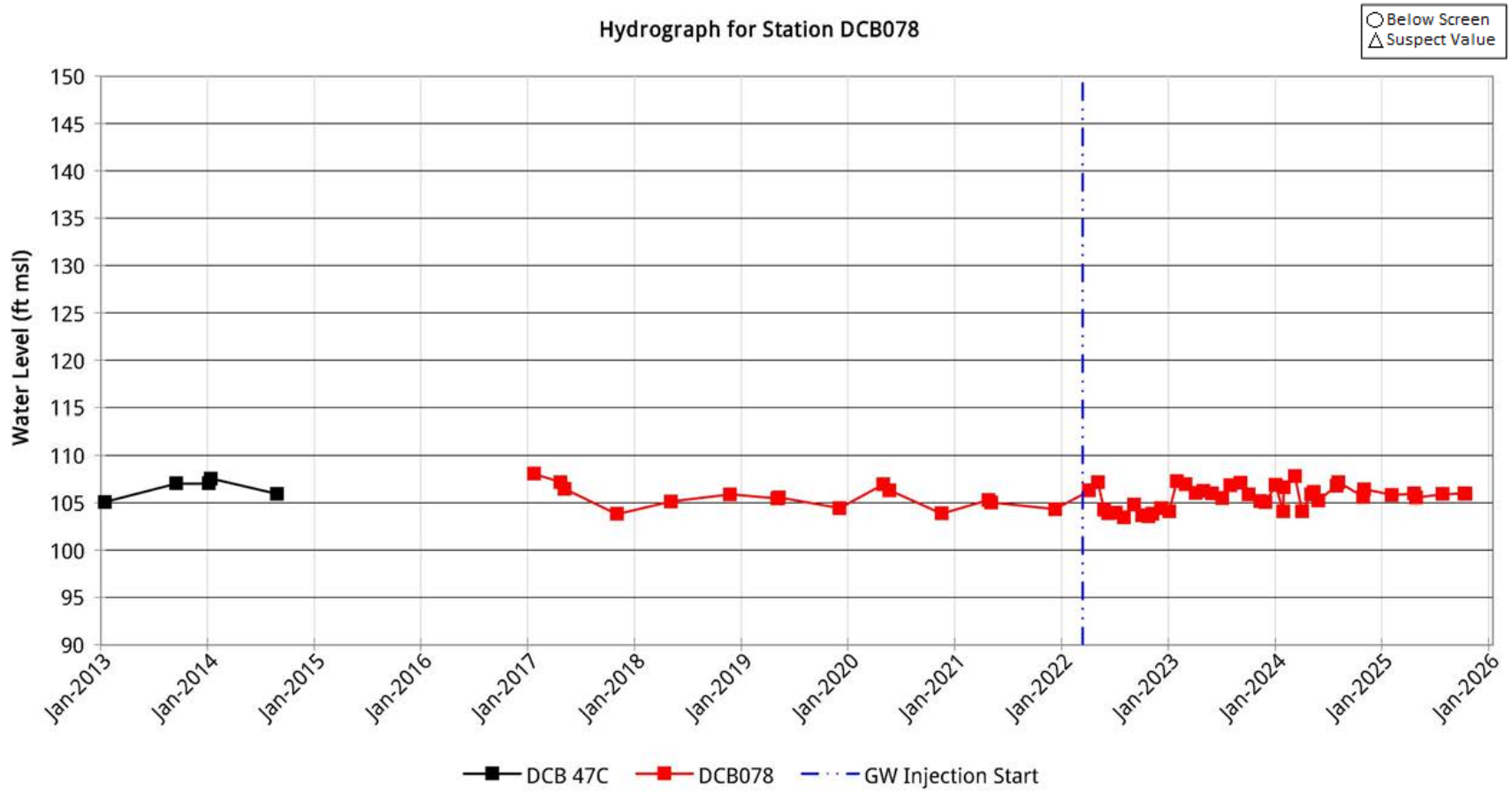

Hydrograph for Station DCB 51
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 51A
DCB 51D
GW Injection Start


Hydrograph for Station DCB 53
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
GW Injection Start

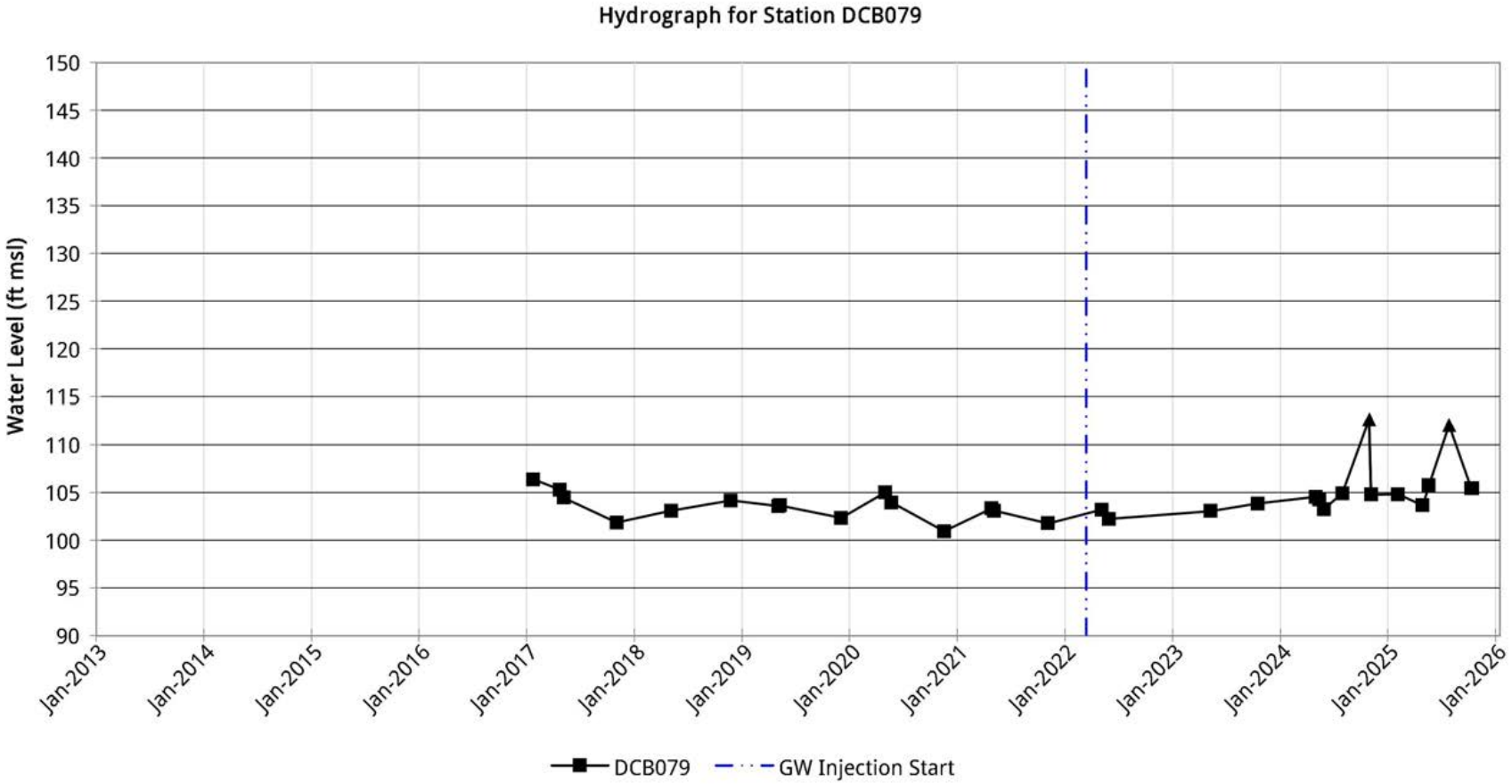

Hydrograph for Station DCB 54
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
GW Injection Start

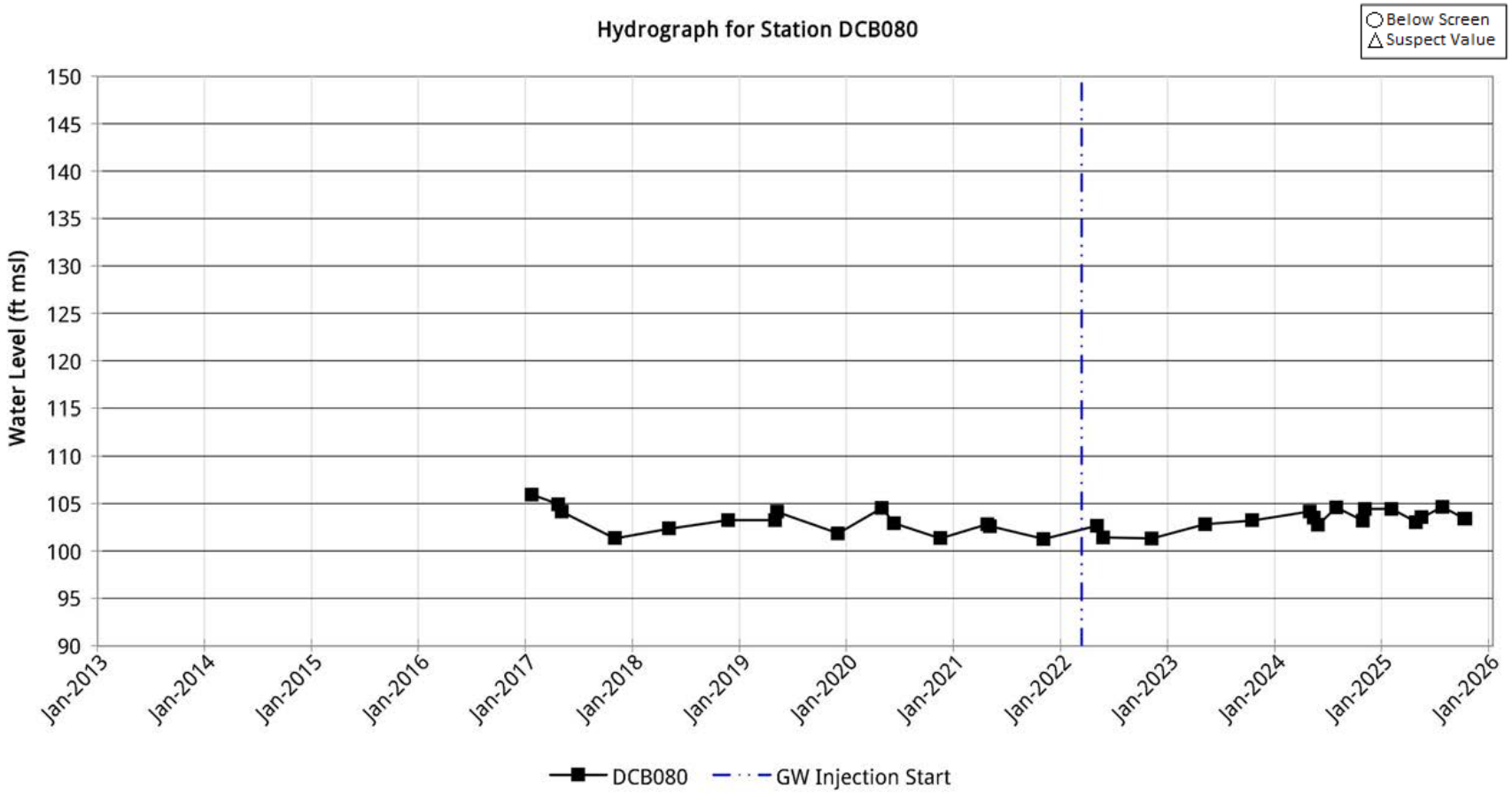

Hydrograph for Station DCB 70
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
GW Injection Start

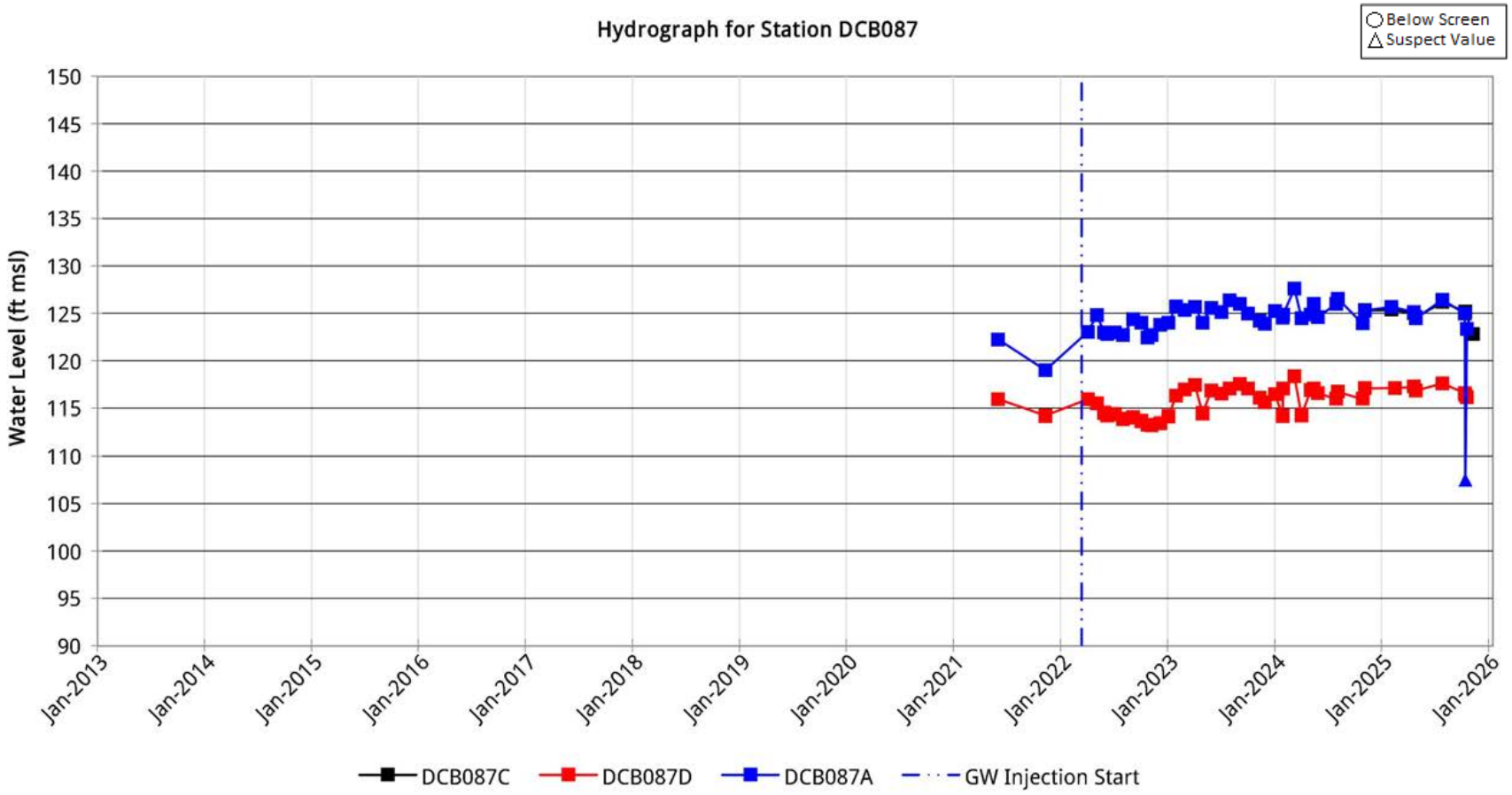

Hydrograph for Station DCB077
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
GW Injection Start



Note: Well DCB078 is a replacement well for DCB 47C


Hydrograph for Station DCB079
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
GW Injection Start


Hydrograph for Station DCB080
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
GW Injection Start

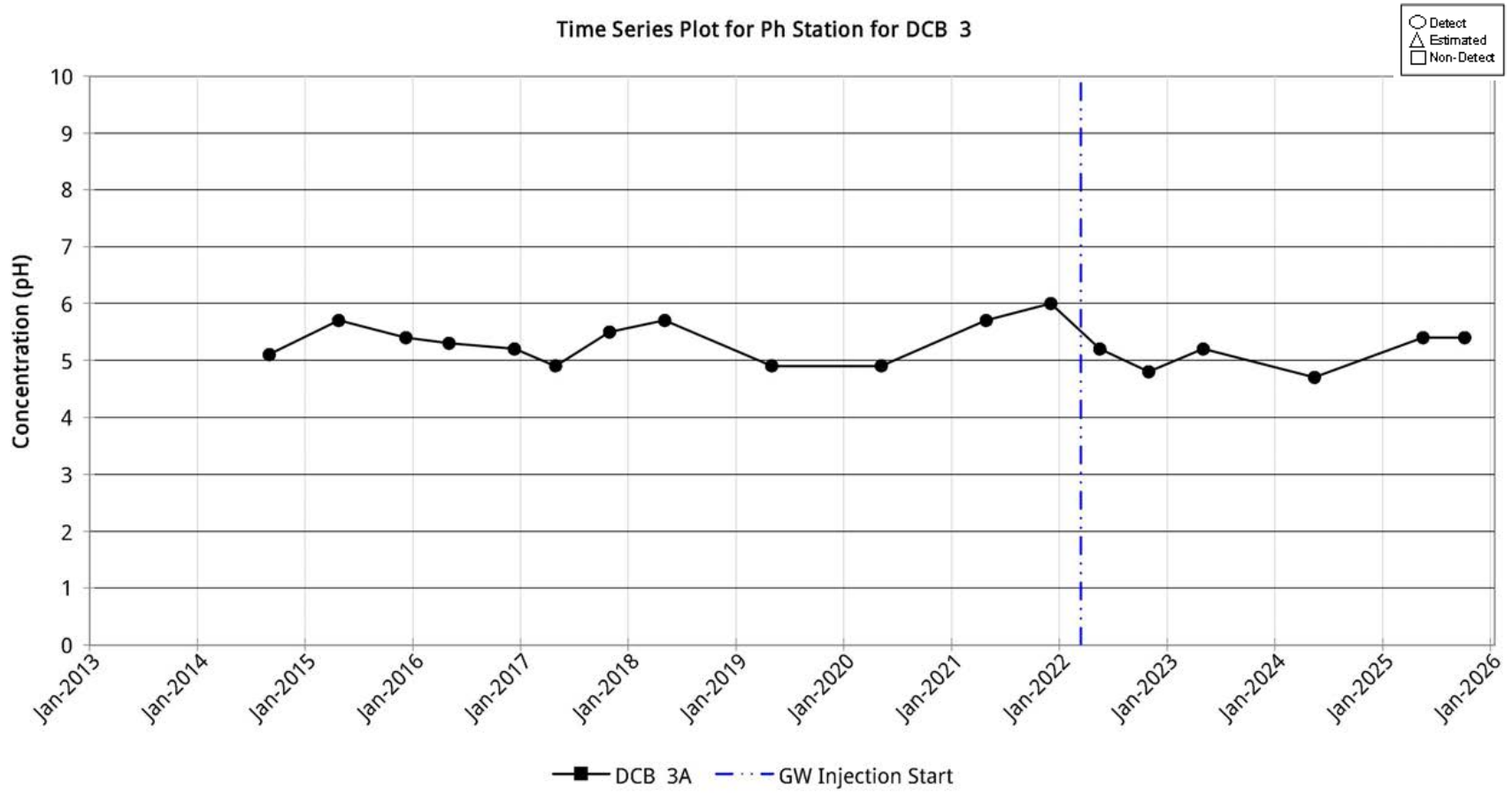

Hydrograph for Station DCB087
Below Screen
Suspect Value
Water Level (ft msl)
150
145
140
135
130
125
120
115
110
105
100
95
90
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
GW Injection Start

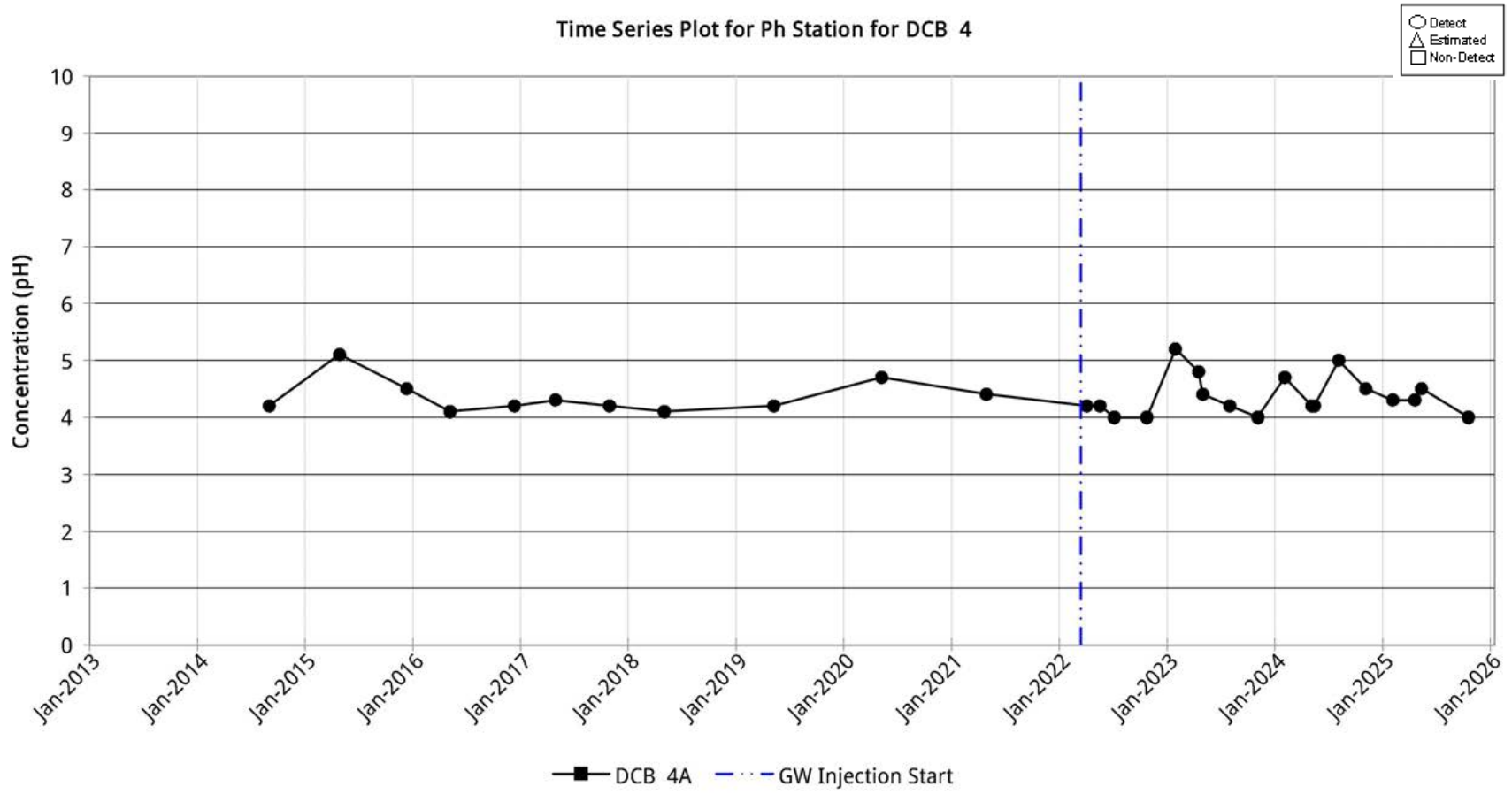
Appendix C

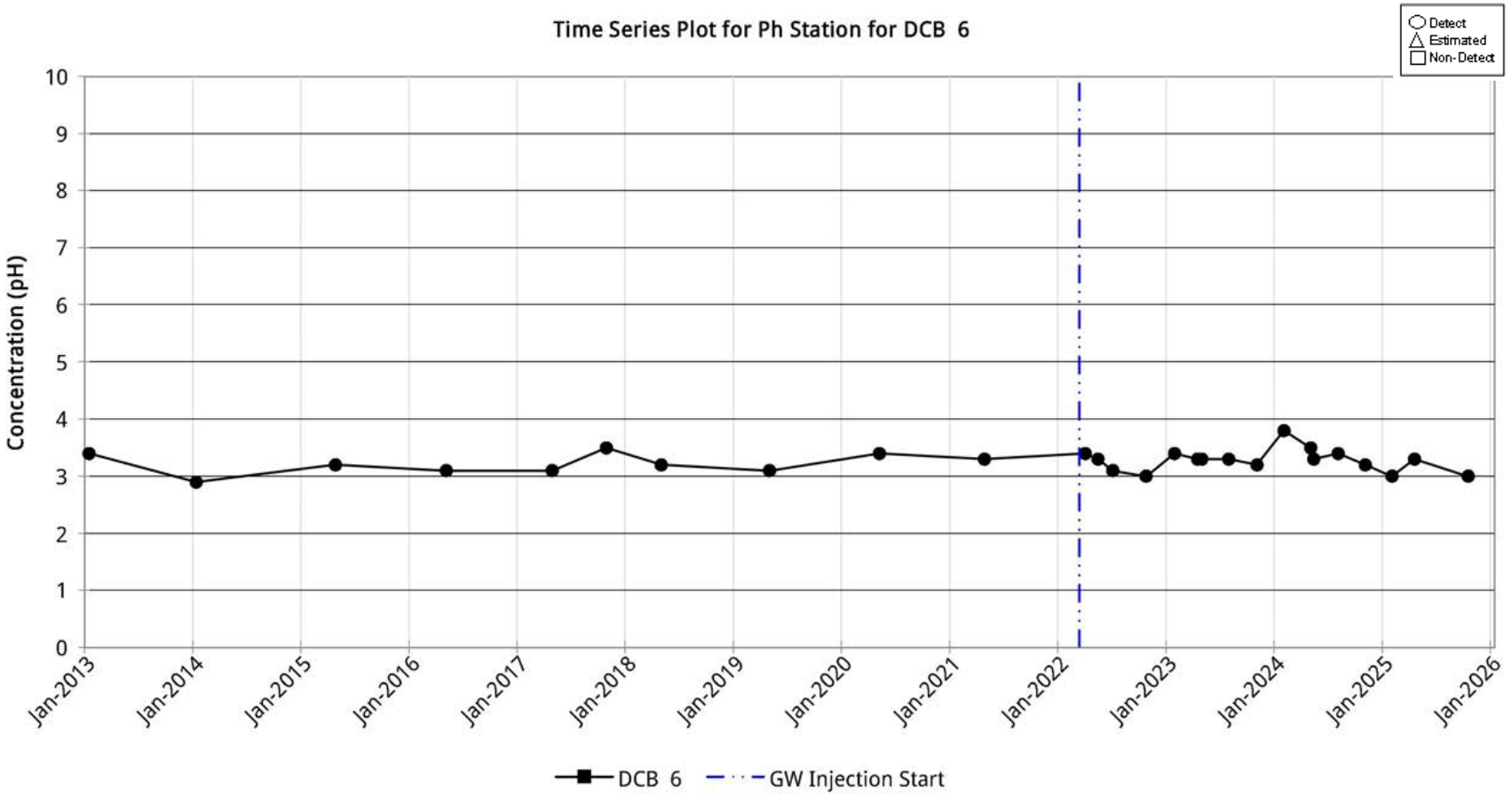
Times-Series Plots

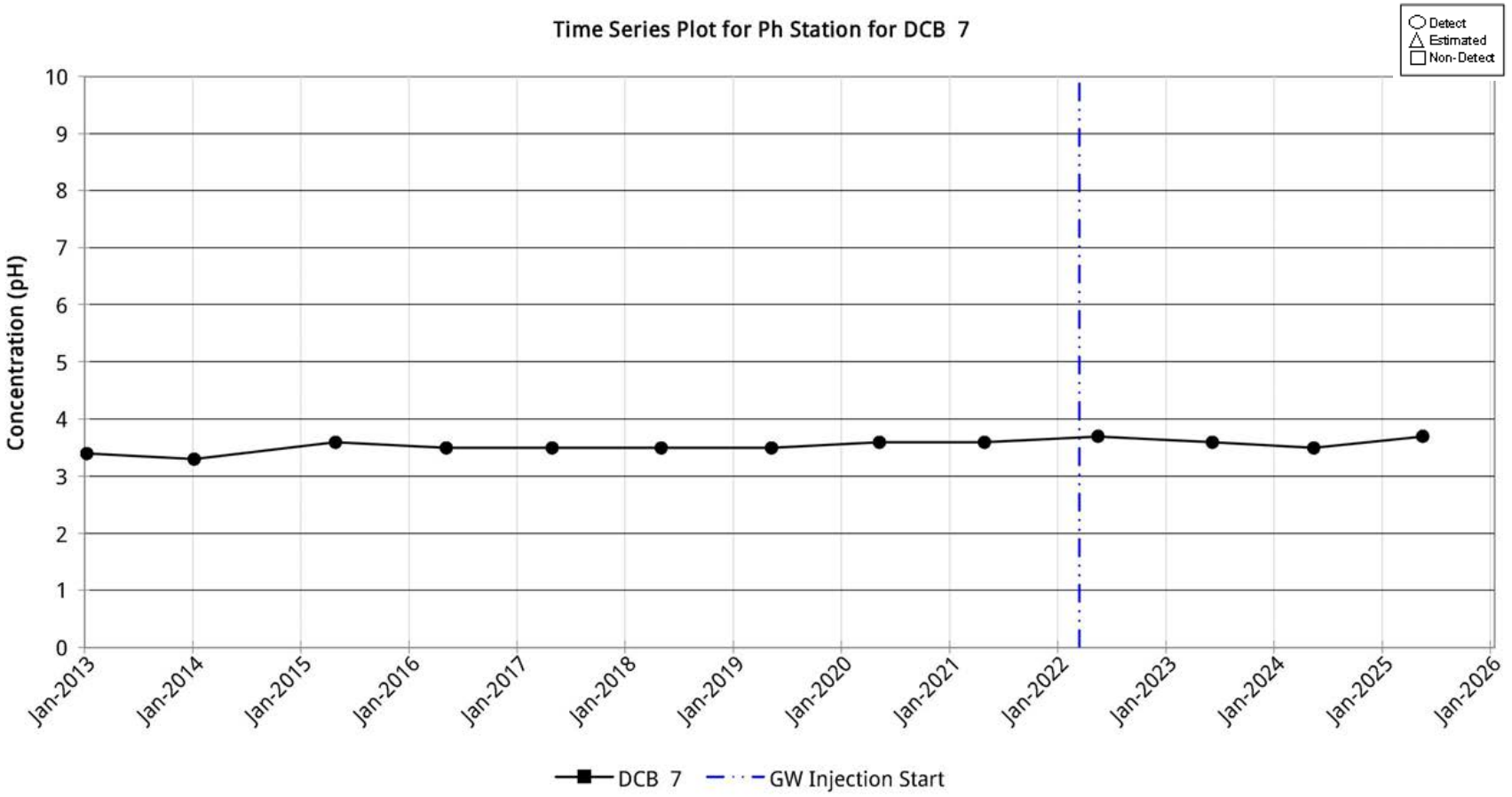
of pH, Aluminum, Beryllium, Cobalt, Iron, Nickel, and Sulfate

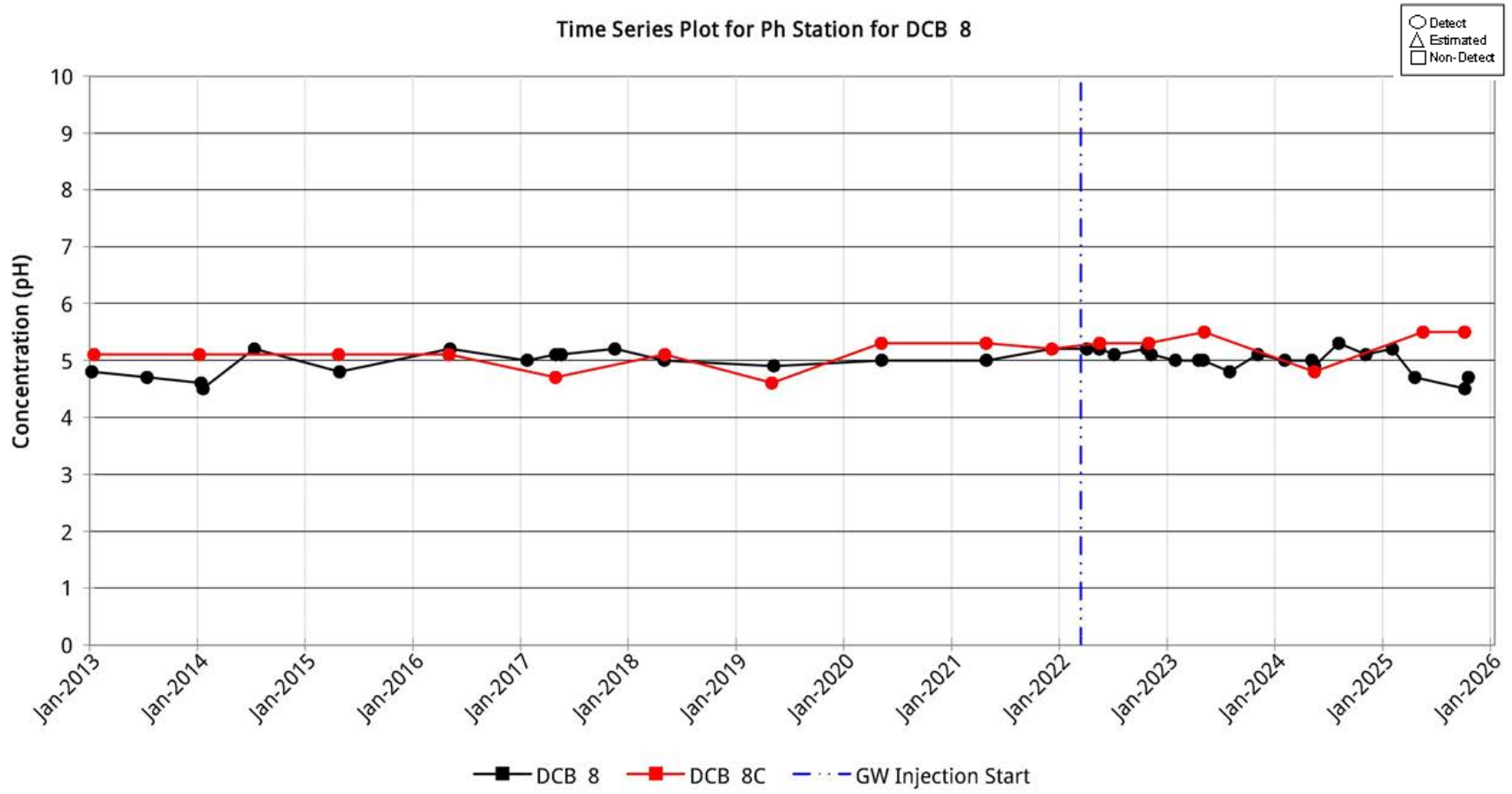
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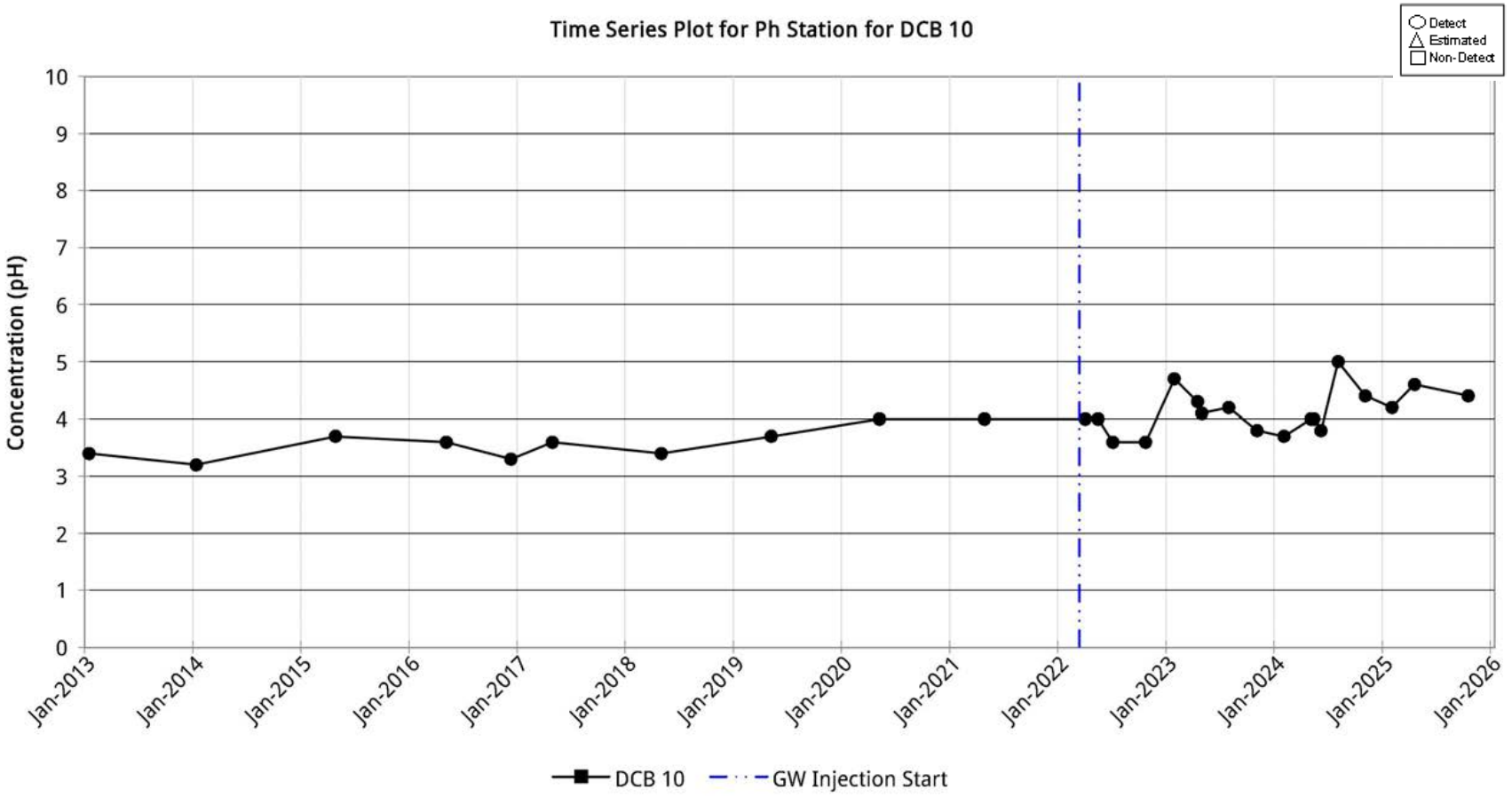

Time Series Plot for Ph Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
GW Injection Start

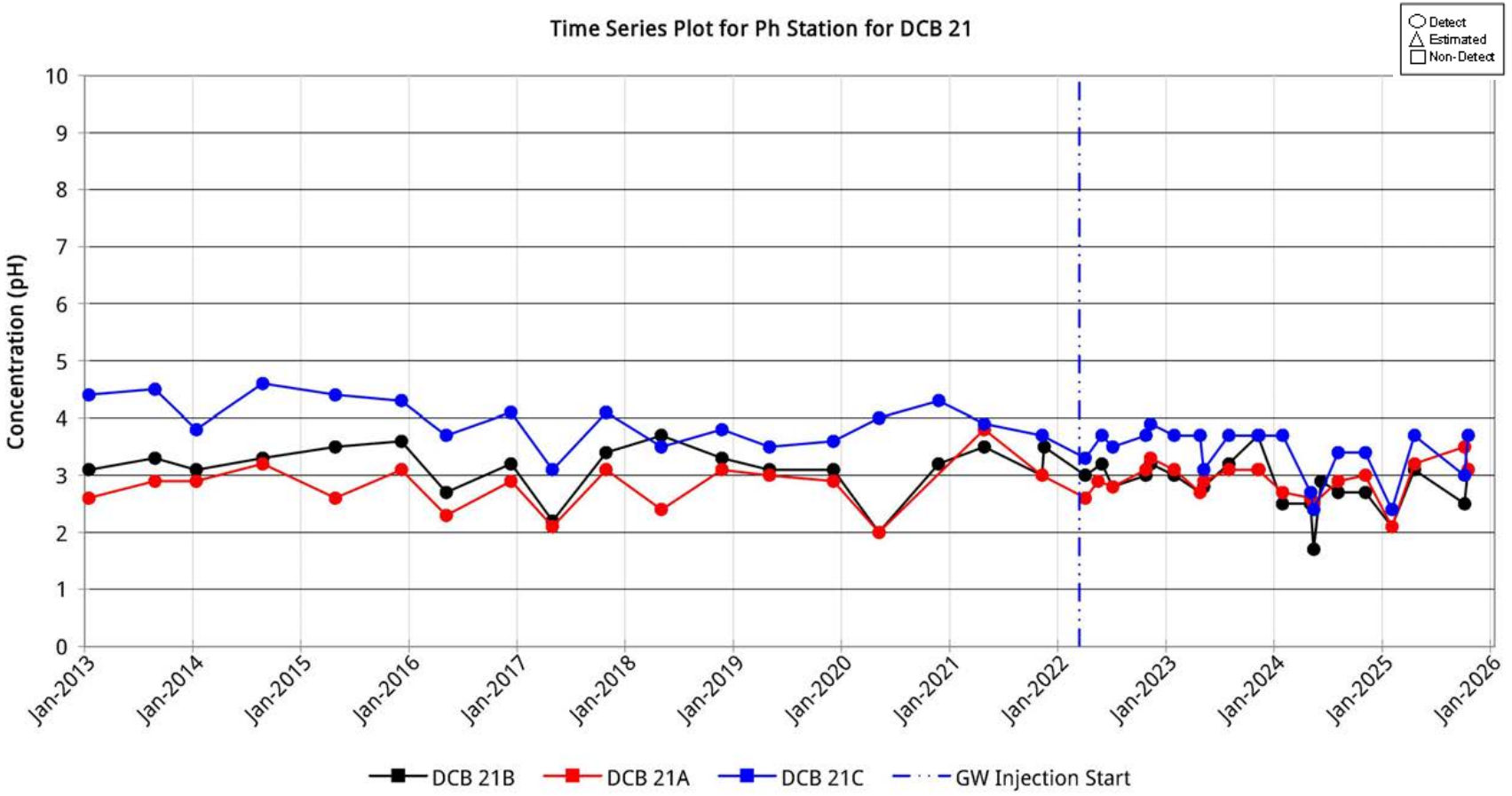

Time Series Plot for Ph Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
GW Injection Start

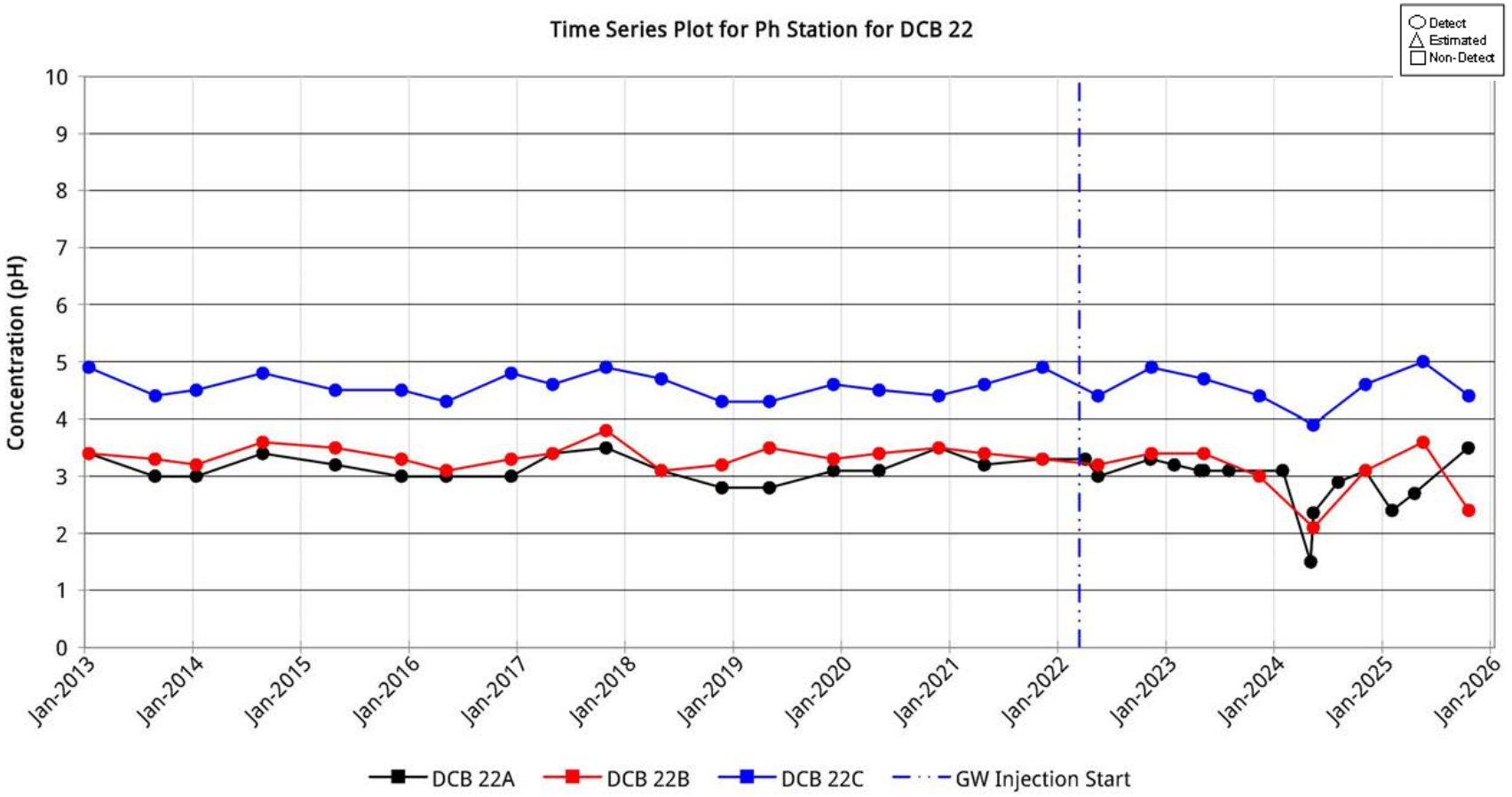

Time Series Plot for Ph Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
GW Injection Start

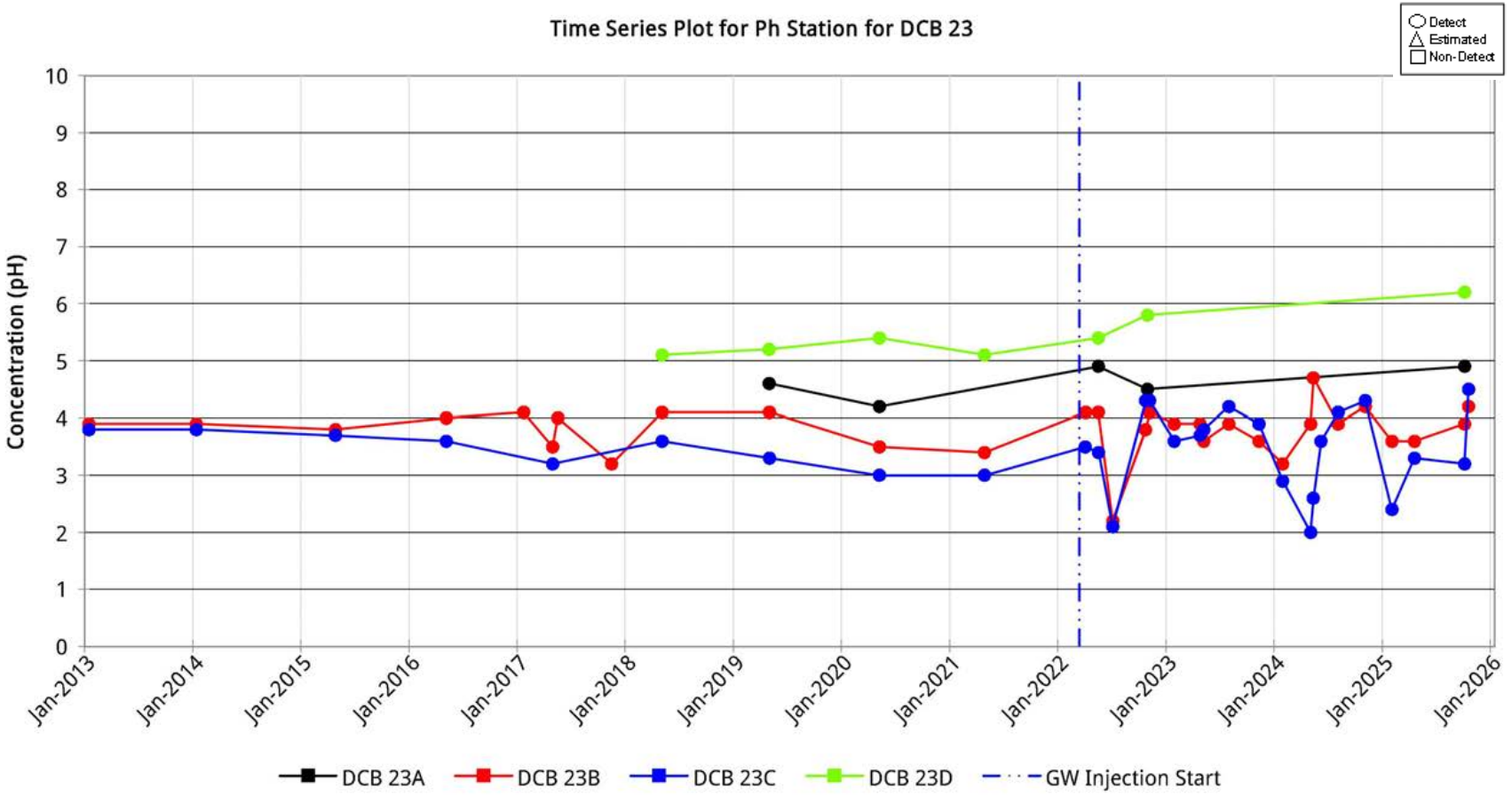

Time Series Plot for Ph Station for DCB 7
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 7
GW Injection Start

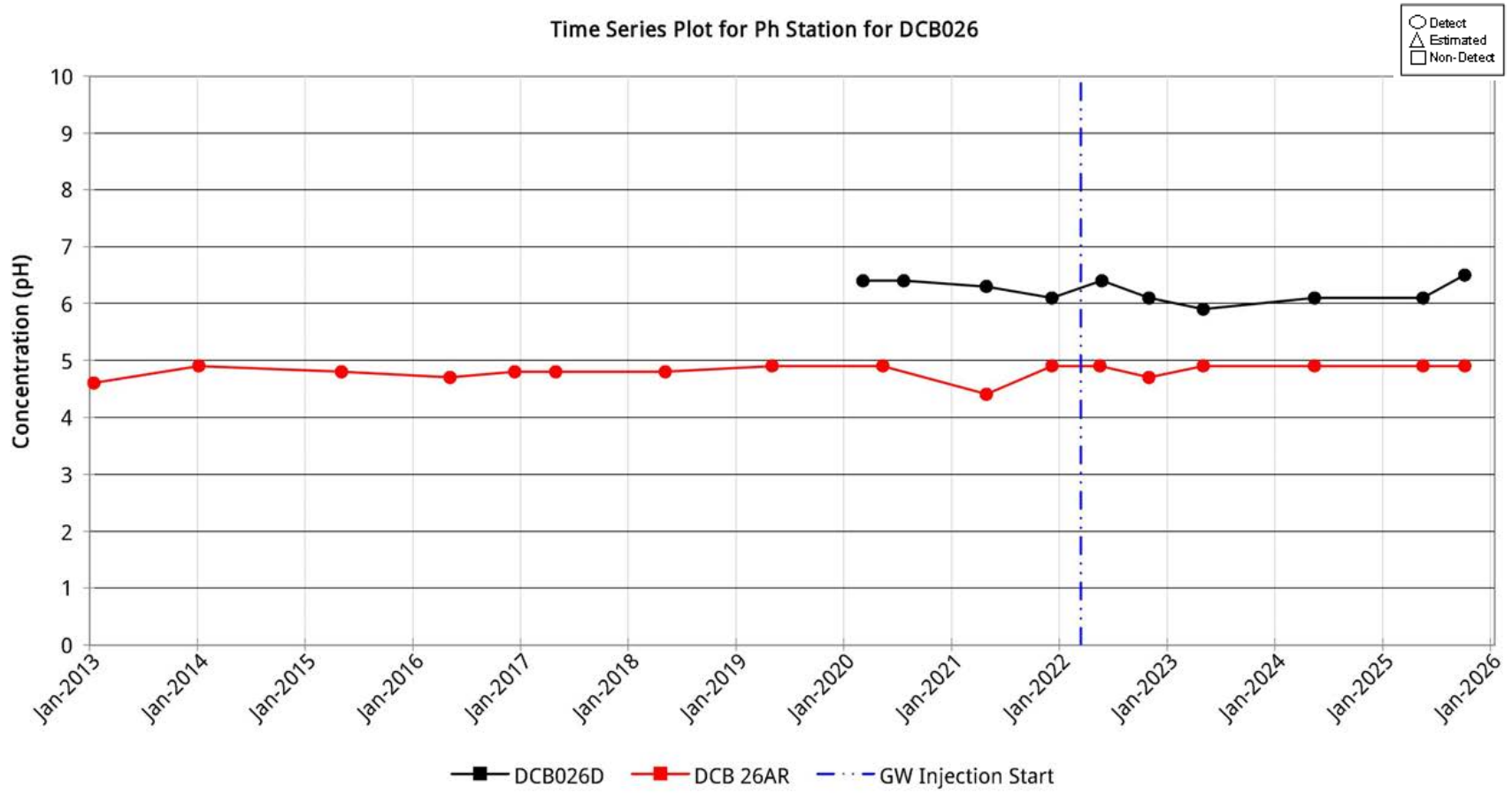

Time Series Plot for Ph Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
GW Injection Start

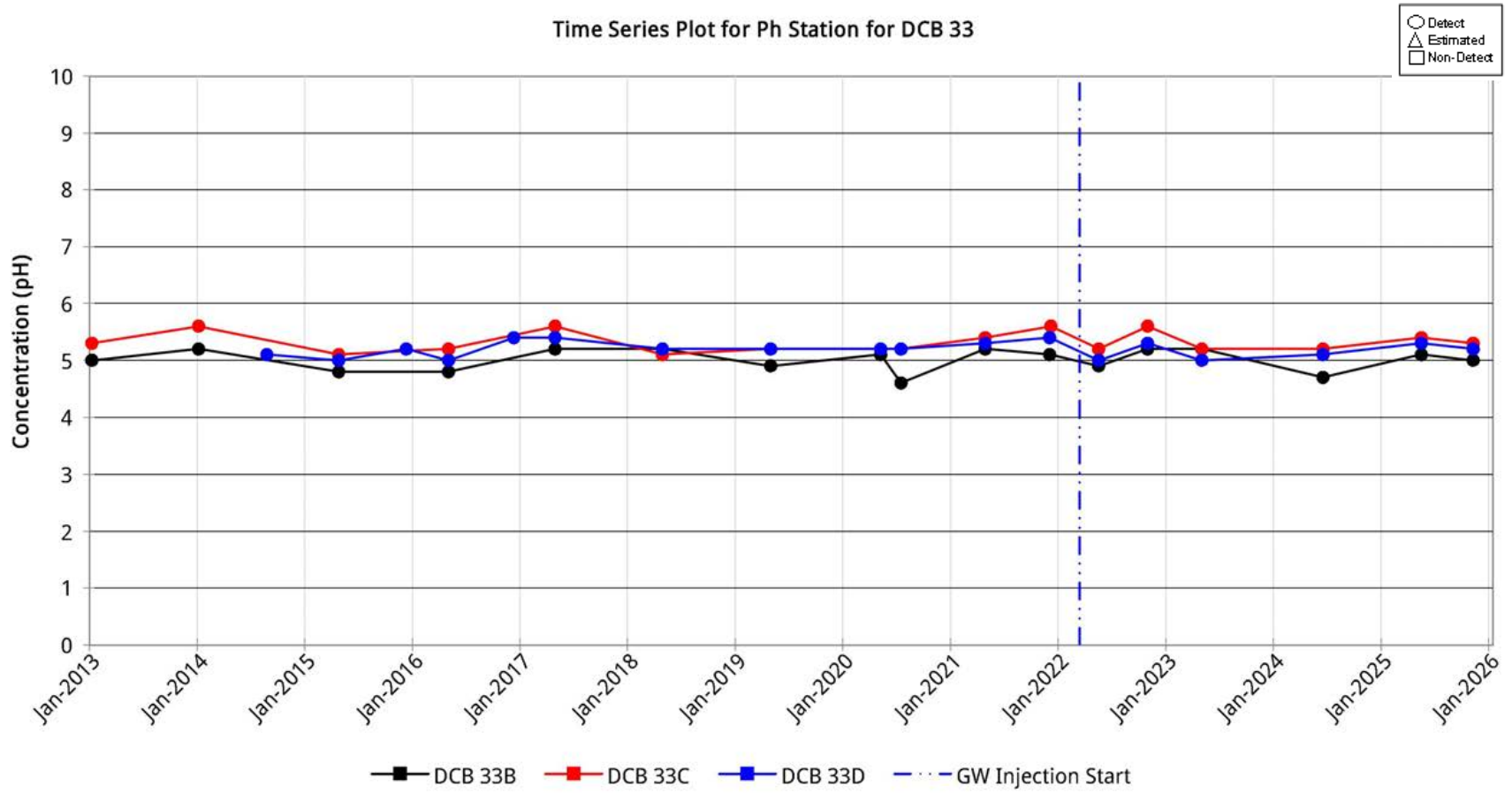

Time Series Plot for Ph Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
GW Injection Start

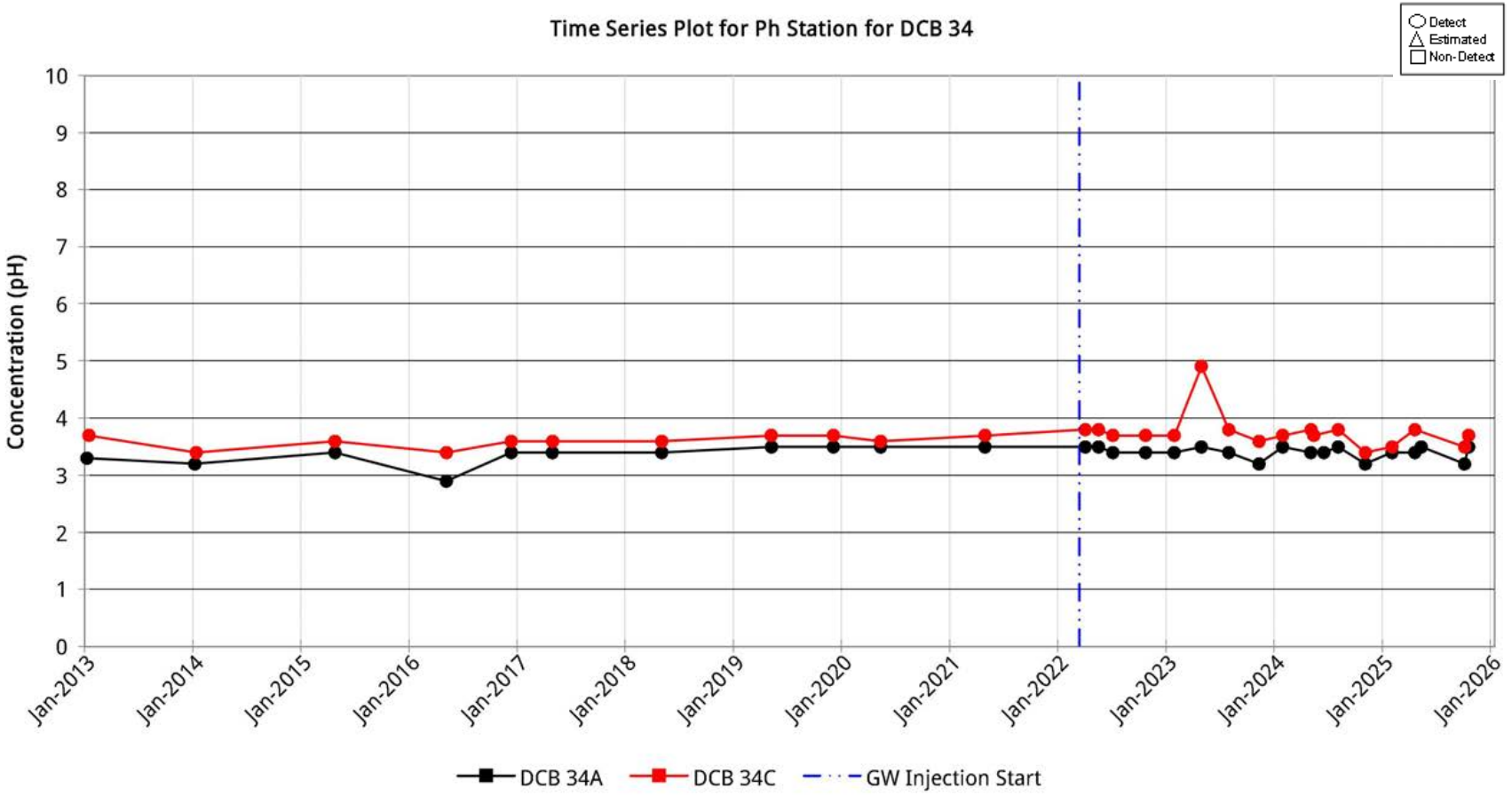

Time Series Plot for Ph Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
GW Injection Start

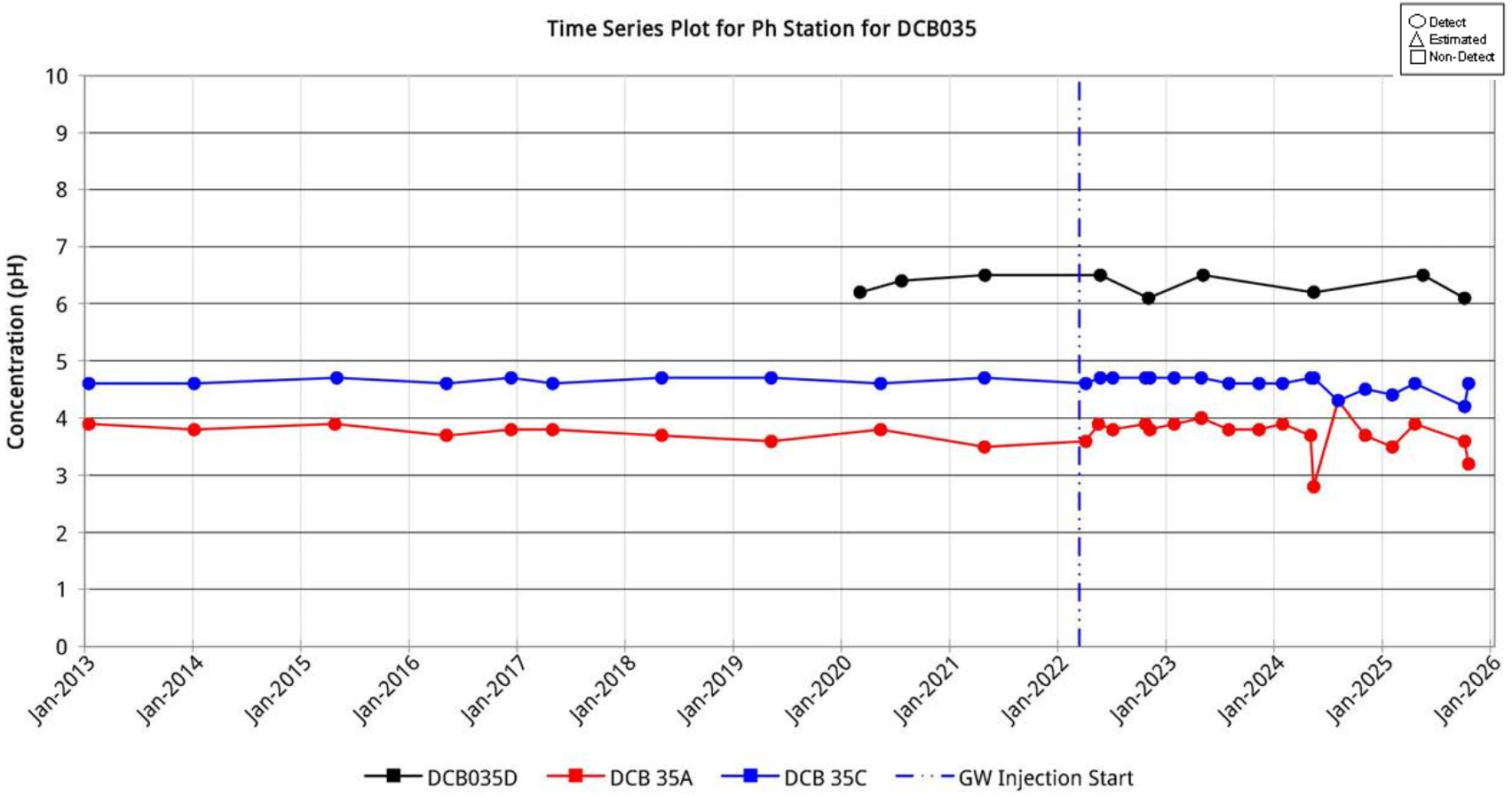

Time Series Plot for Ph Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
GW Injection Start

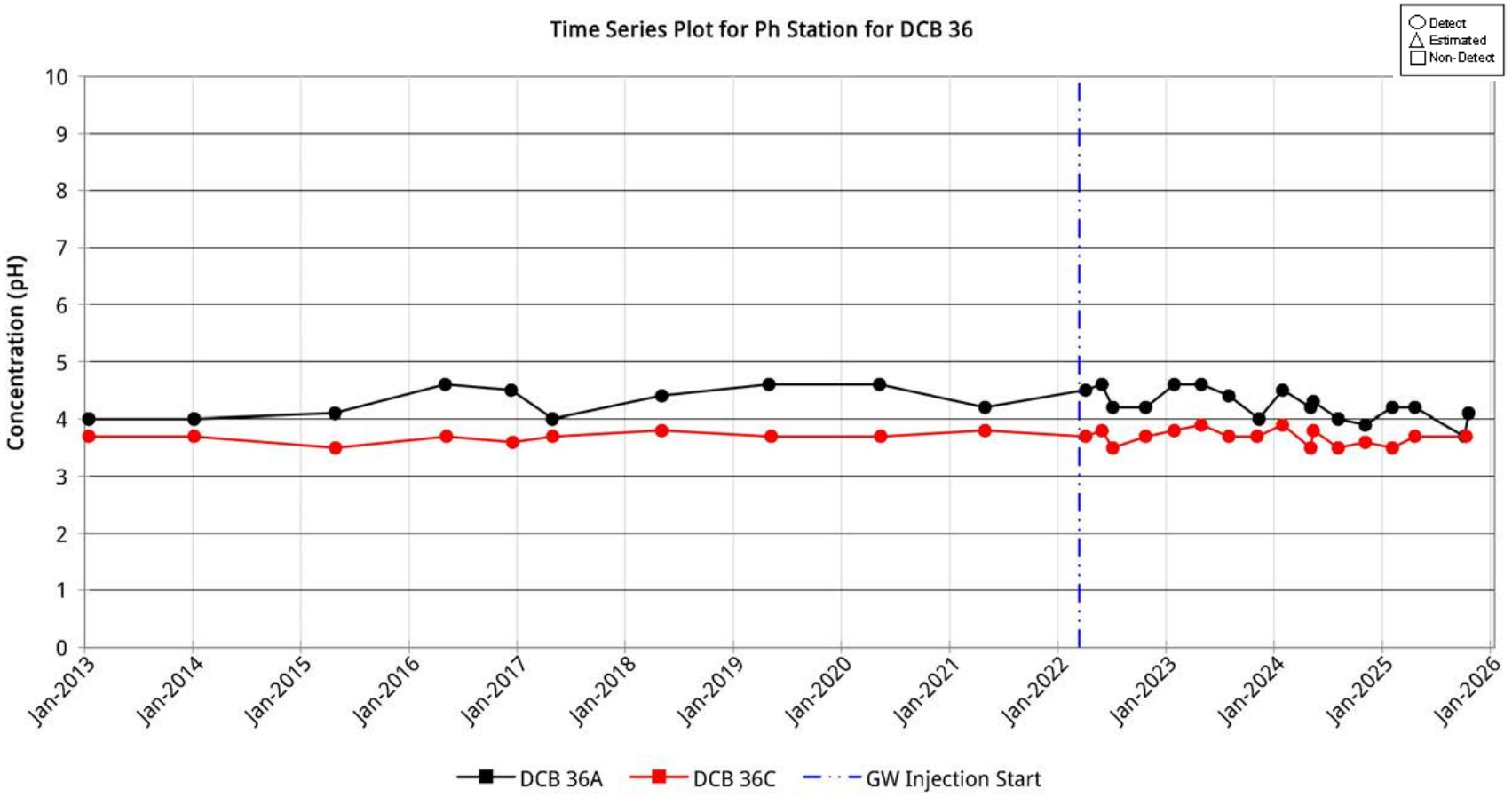

Time Series Plot for Ph Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
GW Injection Start

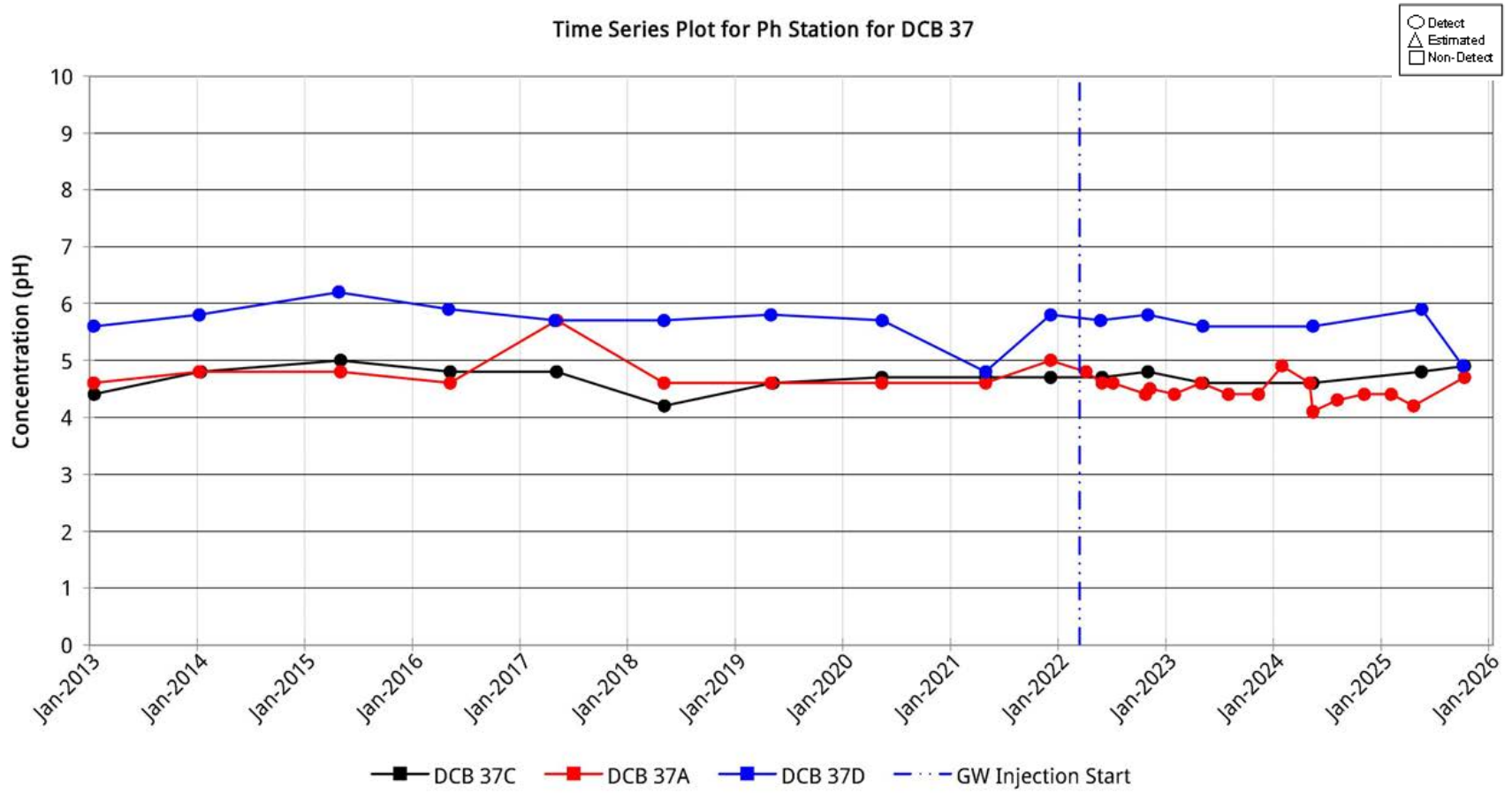

Time Series Plot for Ph Station for DCB026
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
GW Injection Start

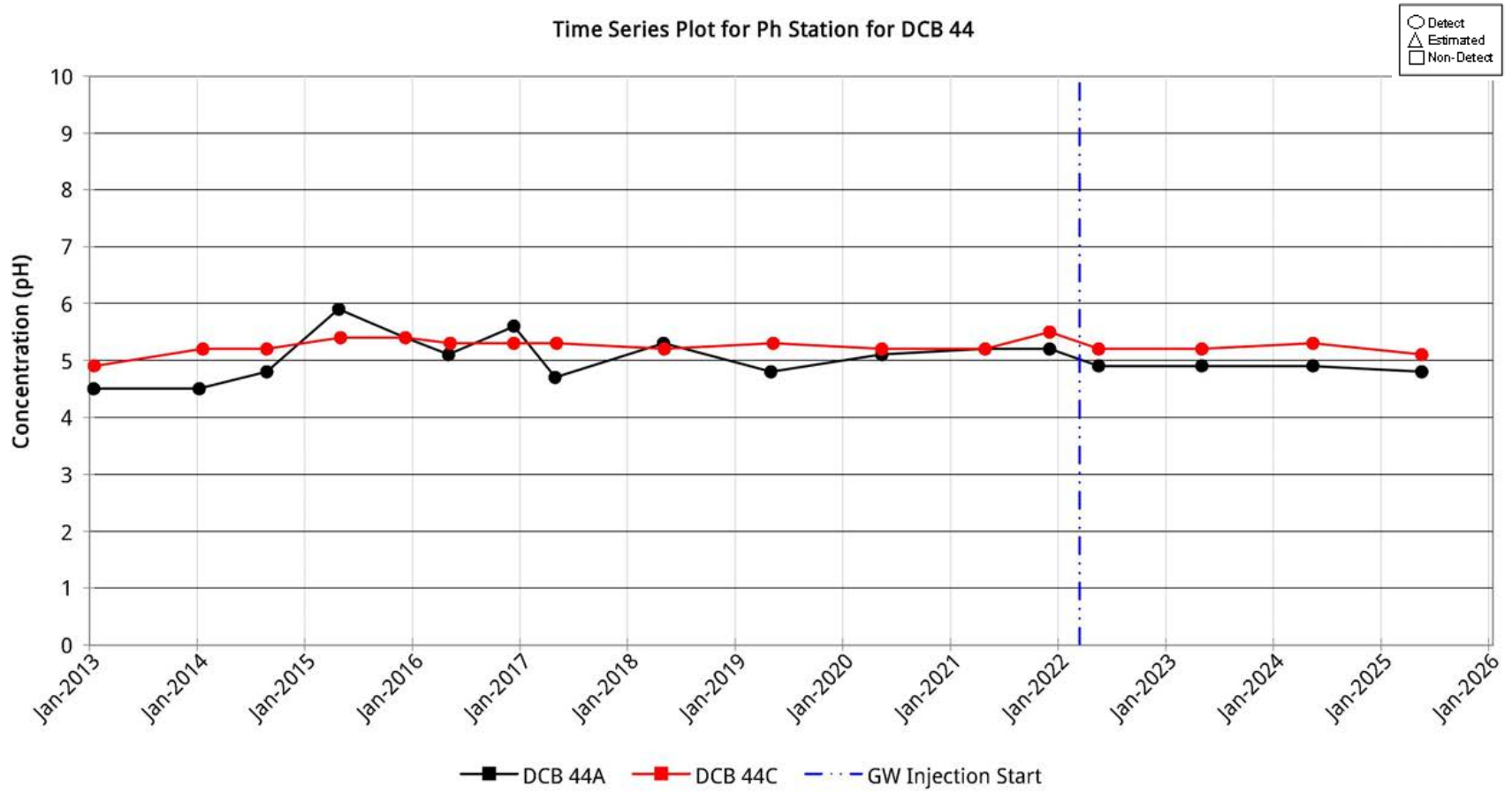

Time Series Plot for Ph Station for DCB 33
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 33B
DCB 33C
DCB 33D
GW Injection Start

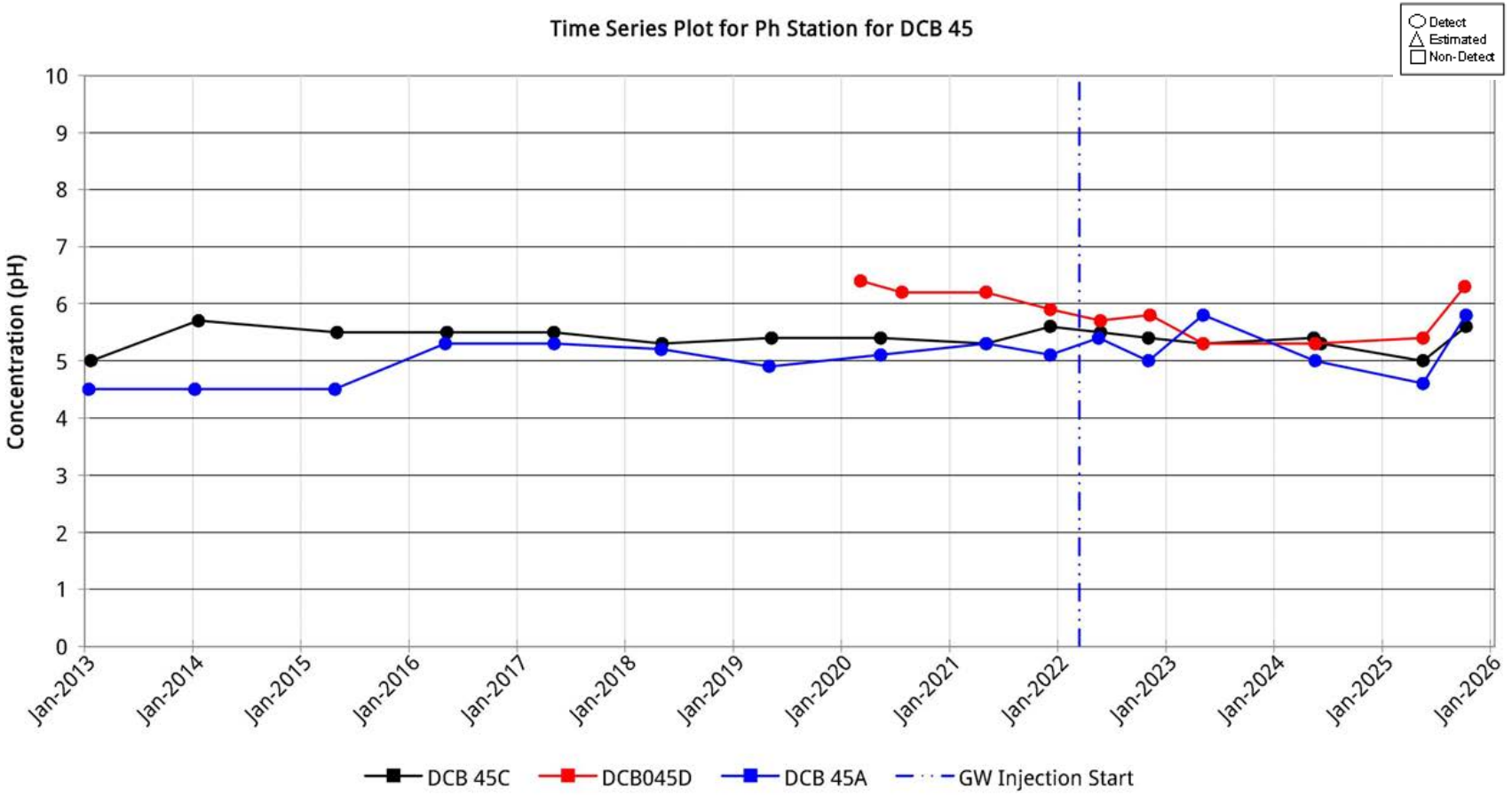

Time Series Plot for Ph Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
GW Injection Start

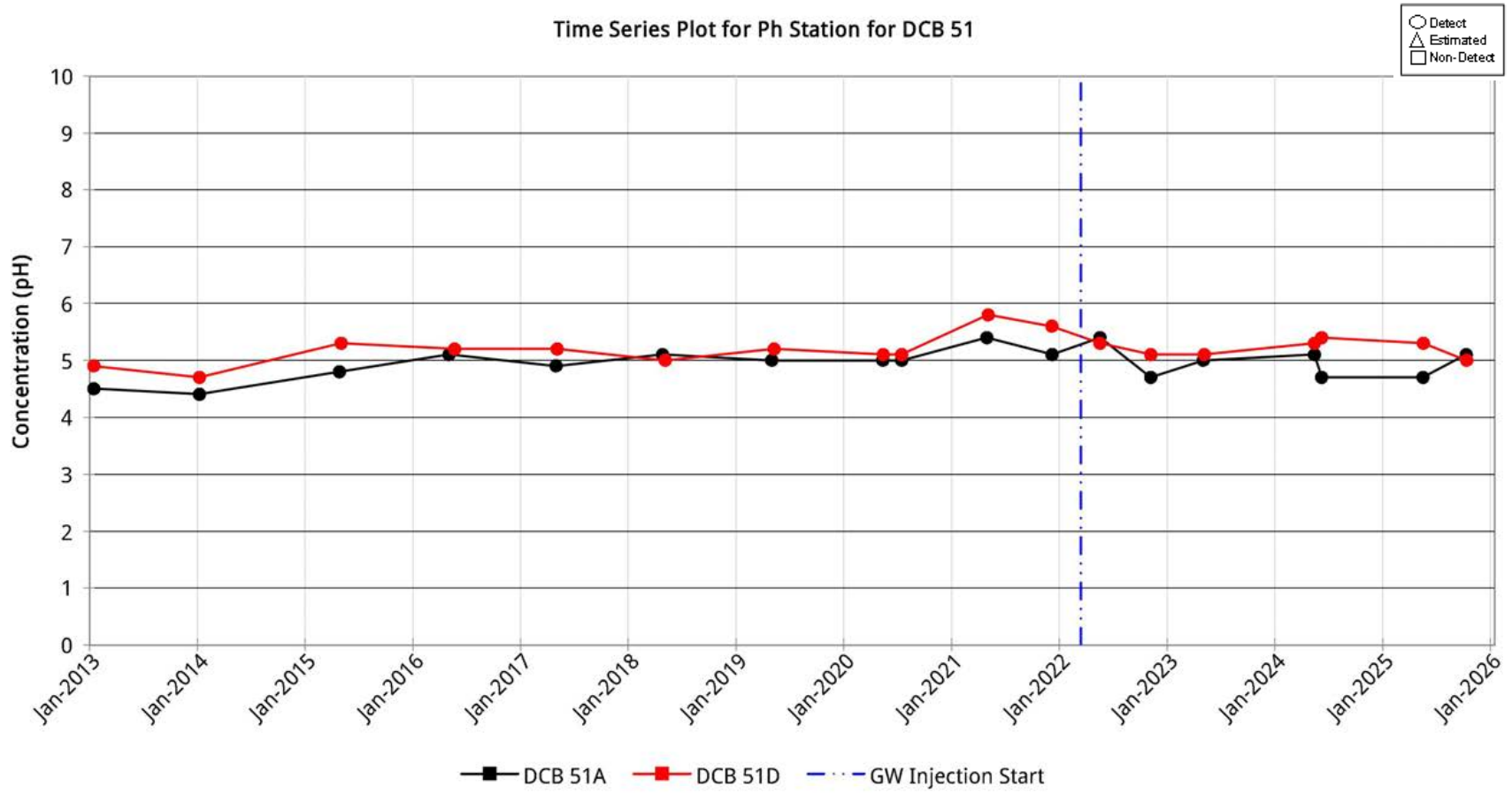

Time Series Plot for Ph Station for DCB035
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
GW Injection Start

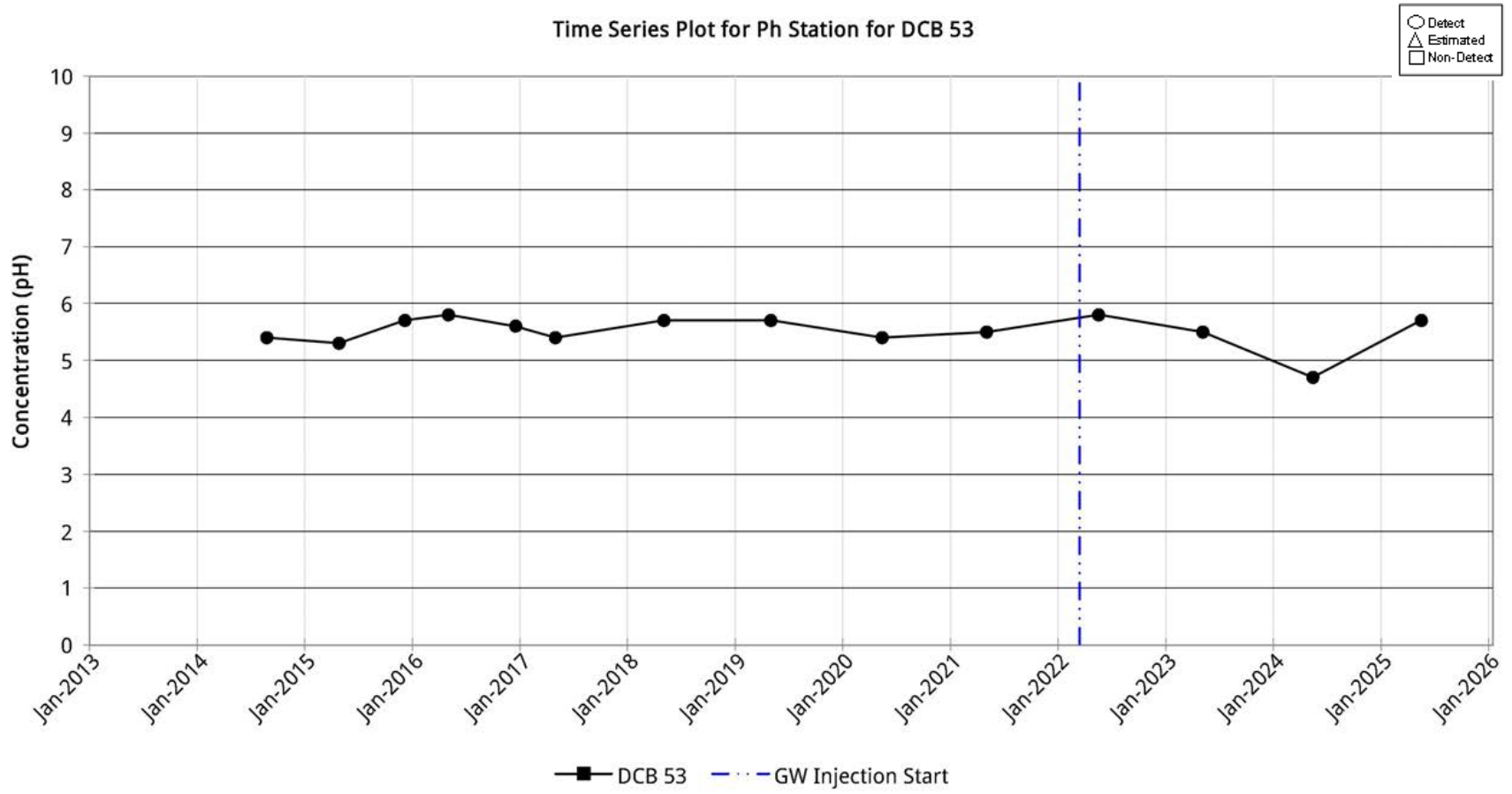

Time Series Plot for Ph Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
GW Injection Start

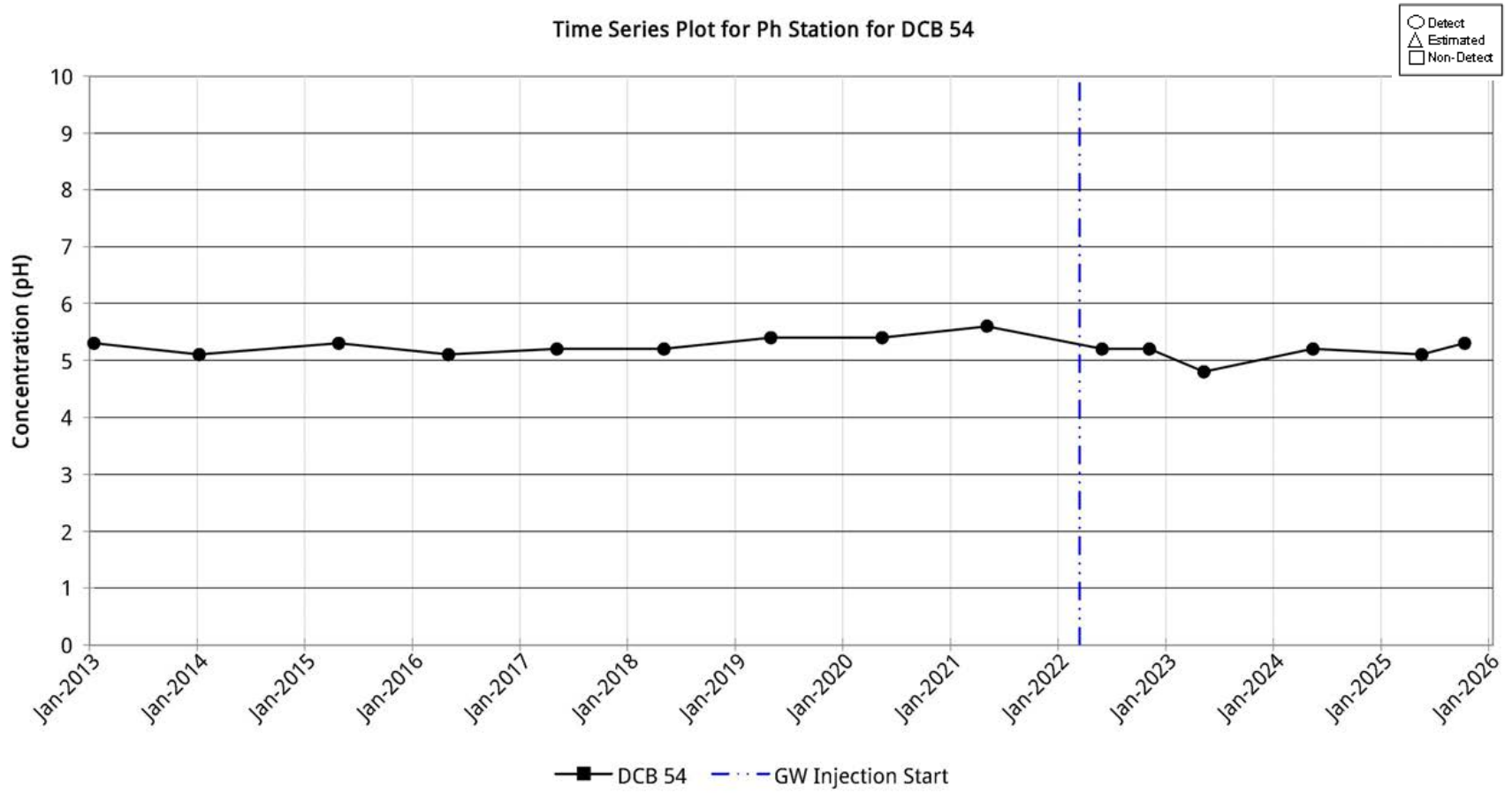

Time Series Plot for Ph Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
DCB 37D
GW Injection Start

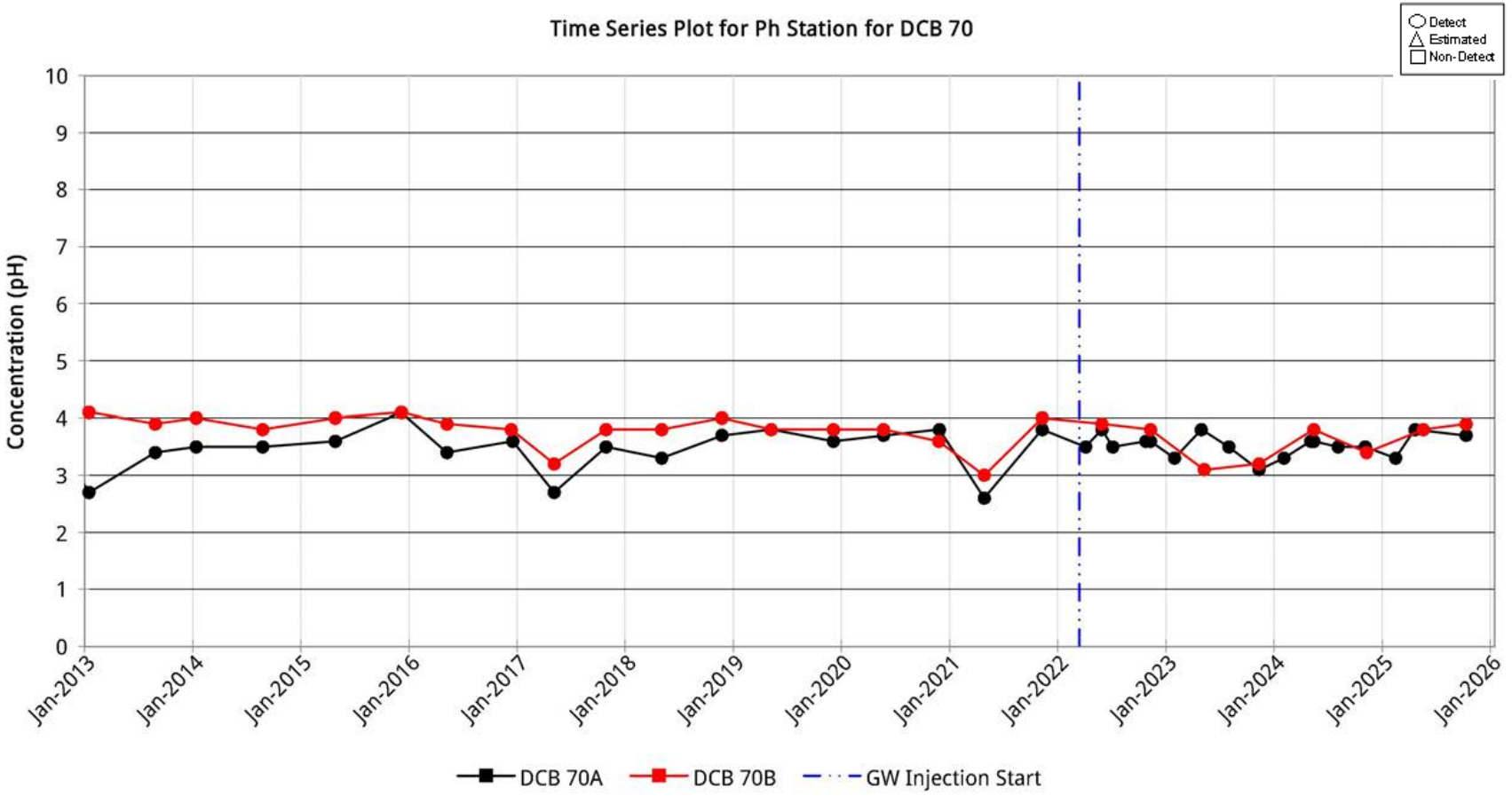

Time Series Plot for Ph Station for DCB 44
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 44A
DCB 44C
GW Injection Start

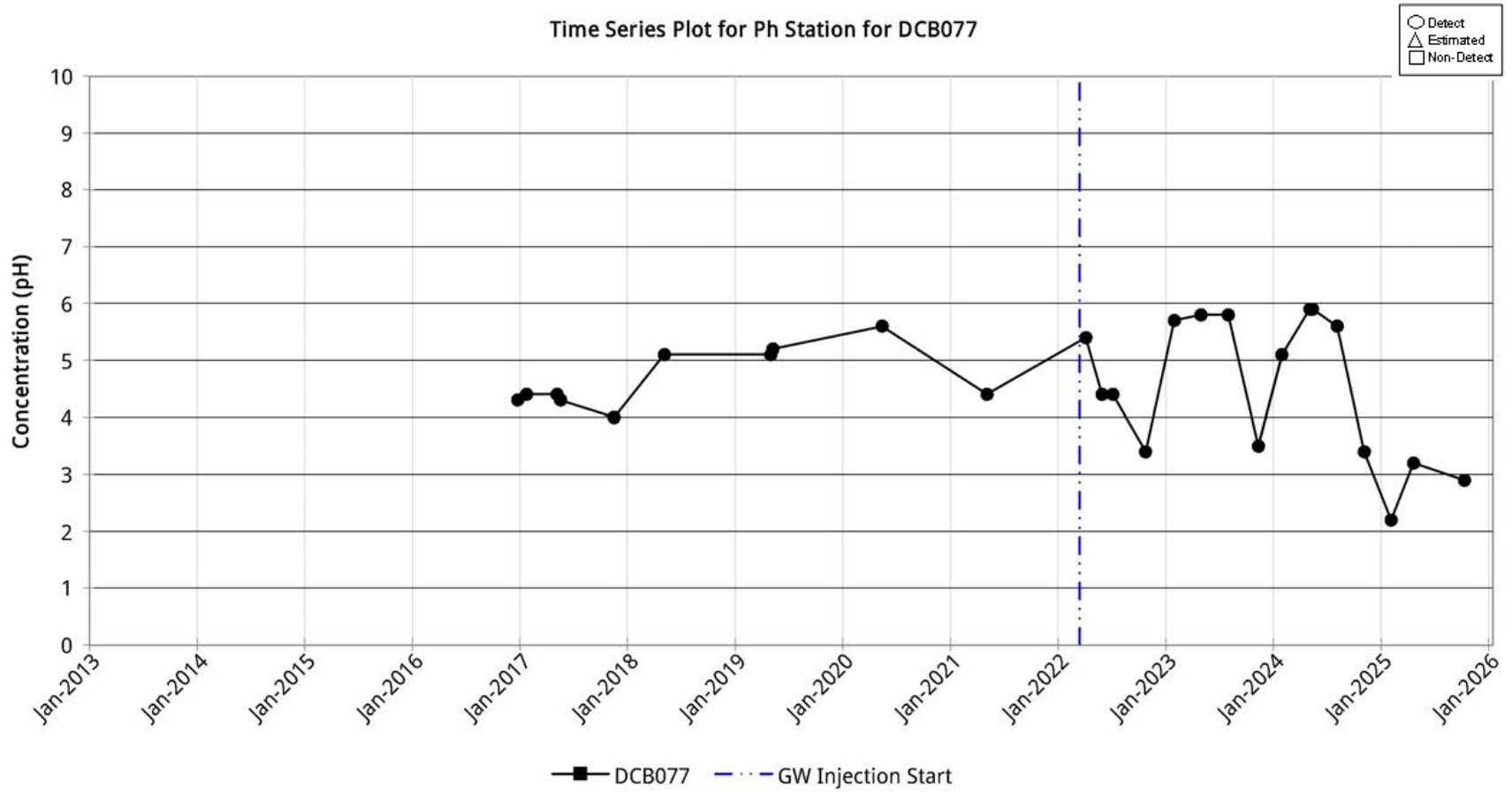

Time Series Plot for Ph Station for DCB 45
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 45C
DCB045D
DCB 45A
GW Injection Start

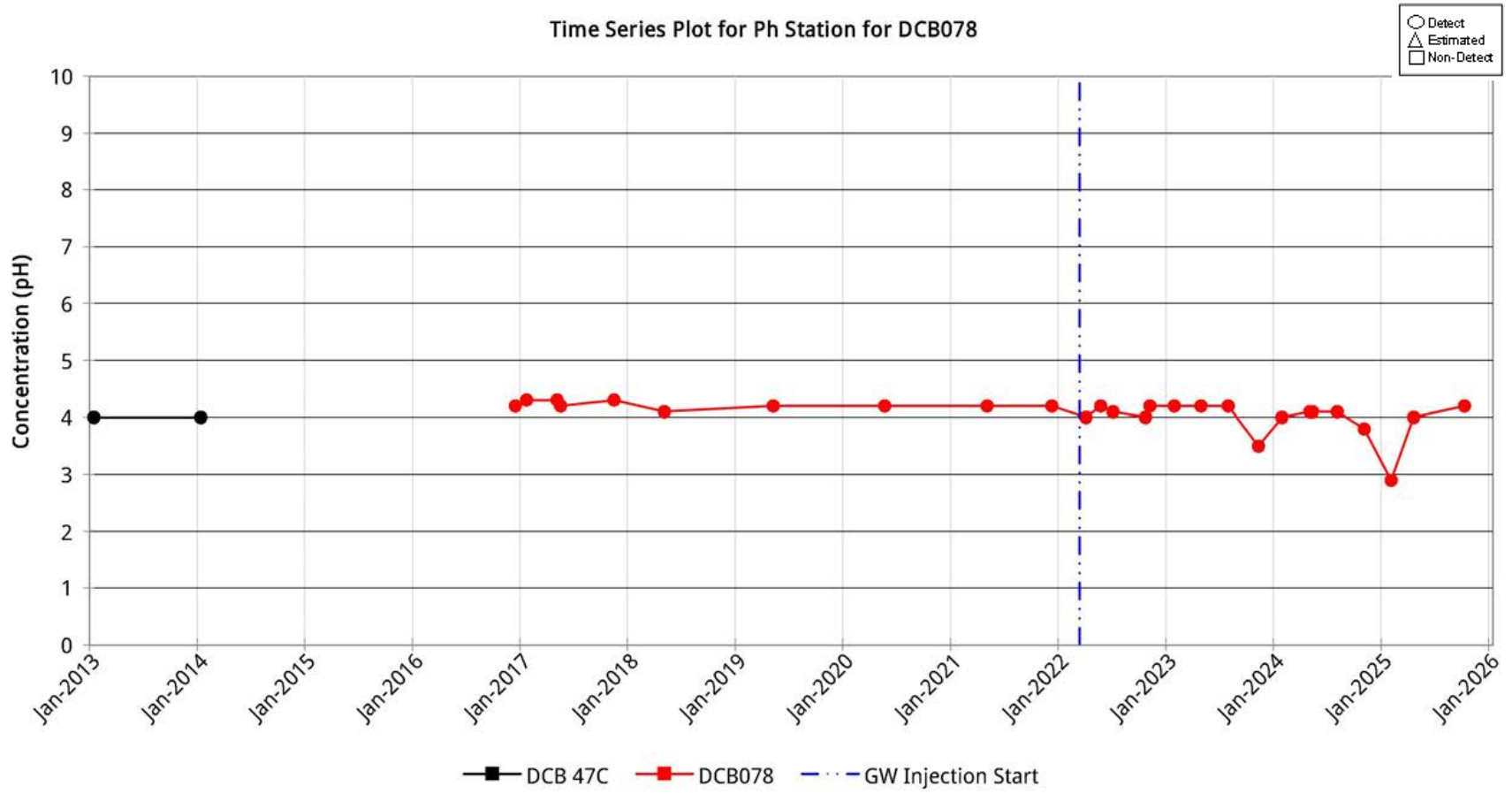

Time Series Plot for Ph Station for DCB 51
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 51A
DCB 51D
GW Injection Start


Time Series Plot for Ph Station for DCB 53
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
GW Injection Start

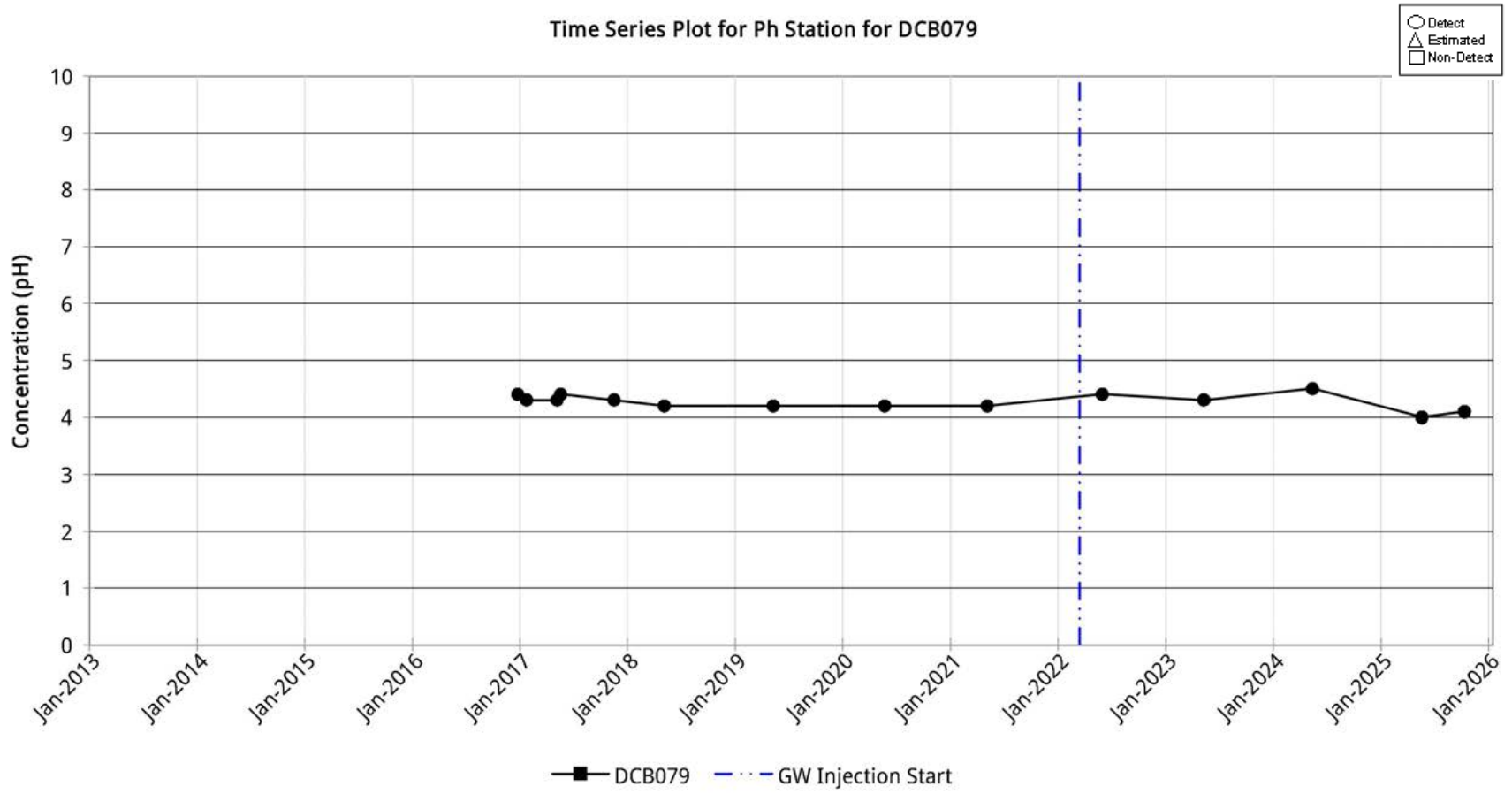

Time Series Plot for Ph Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
GW Injection Start

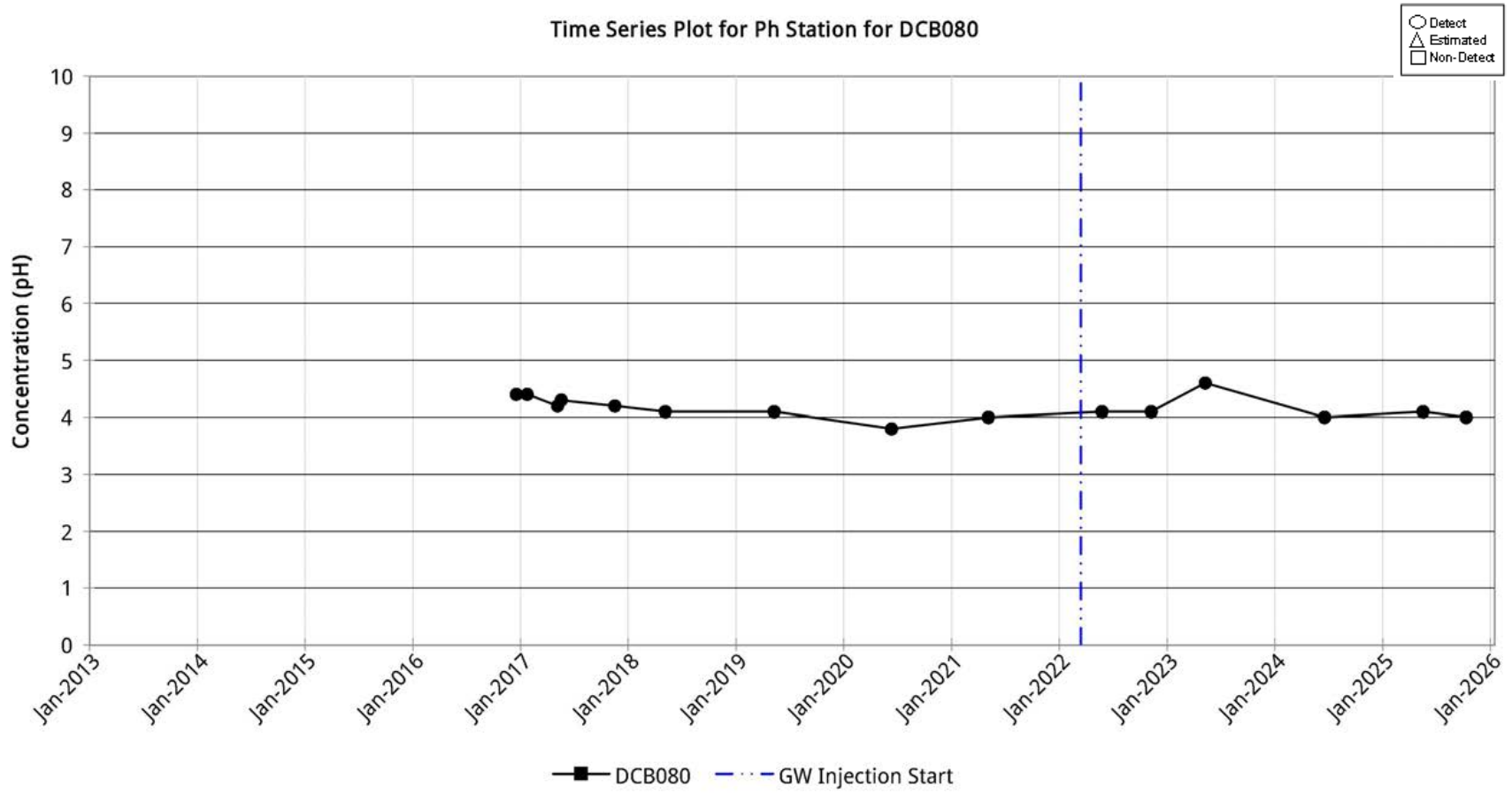

Time Series Plot for Ph Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
GW Injection Start

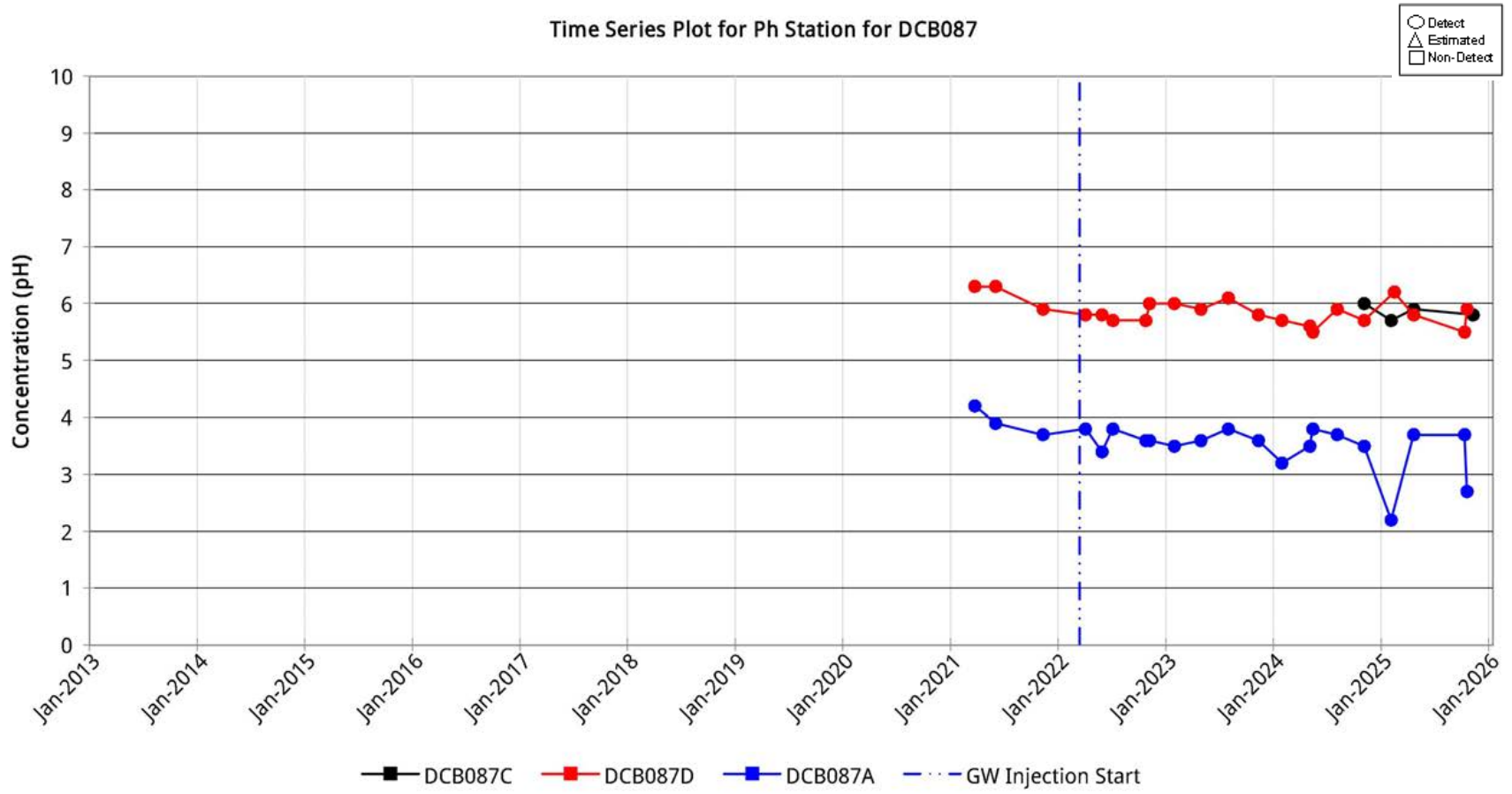

Time Series Plot for Ph Station for DCB077
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
GW Injection Start

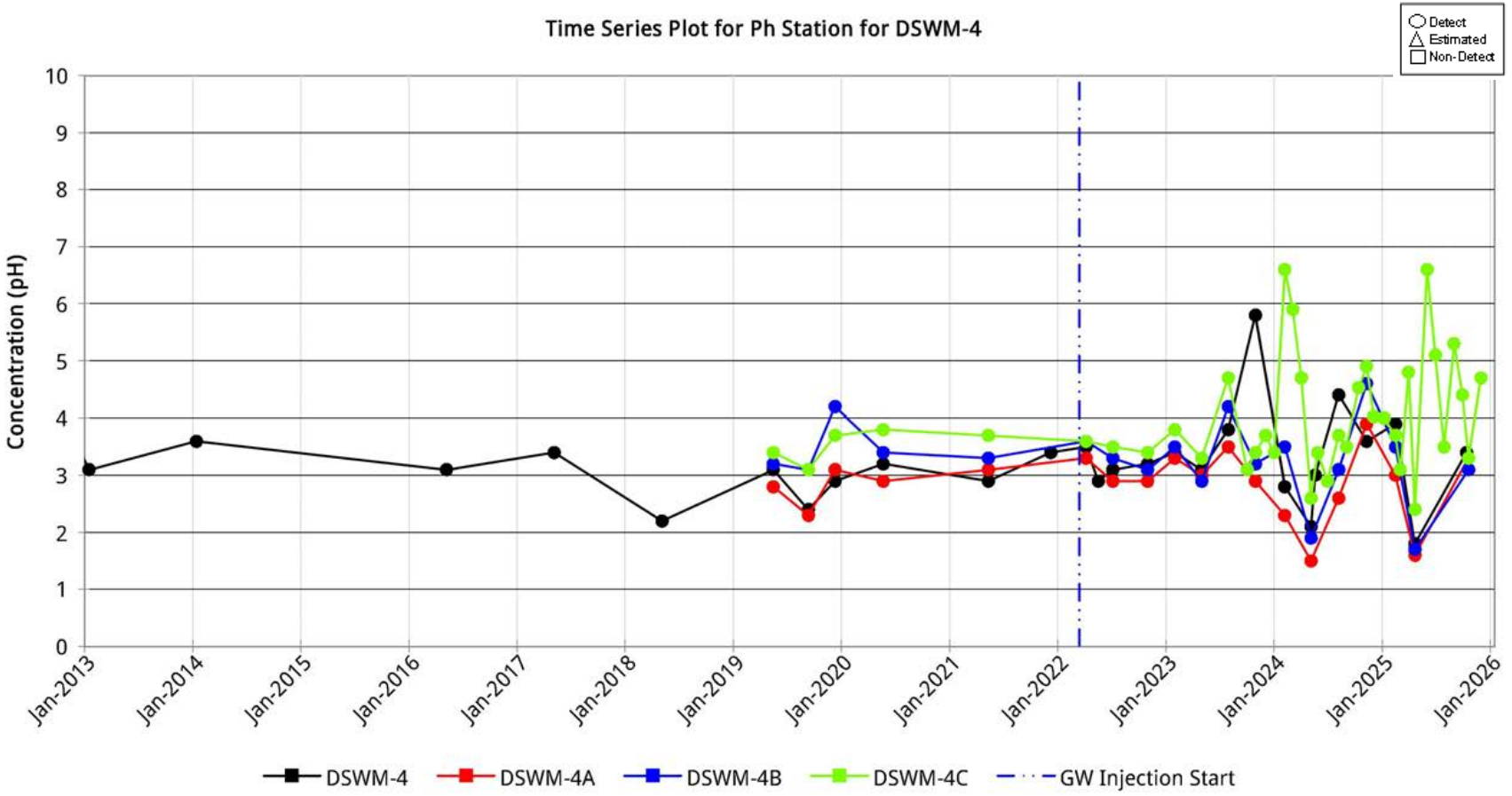


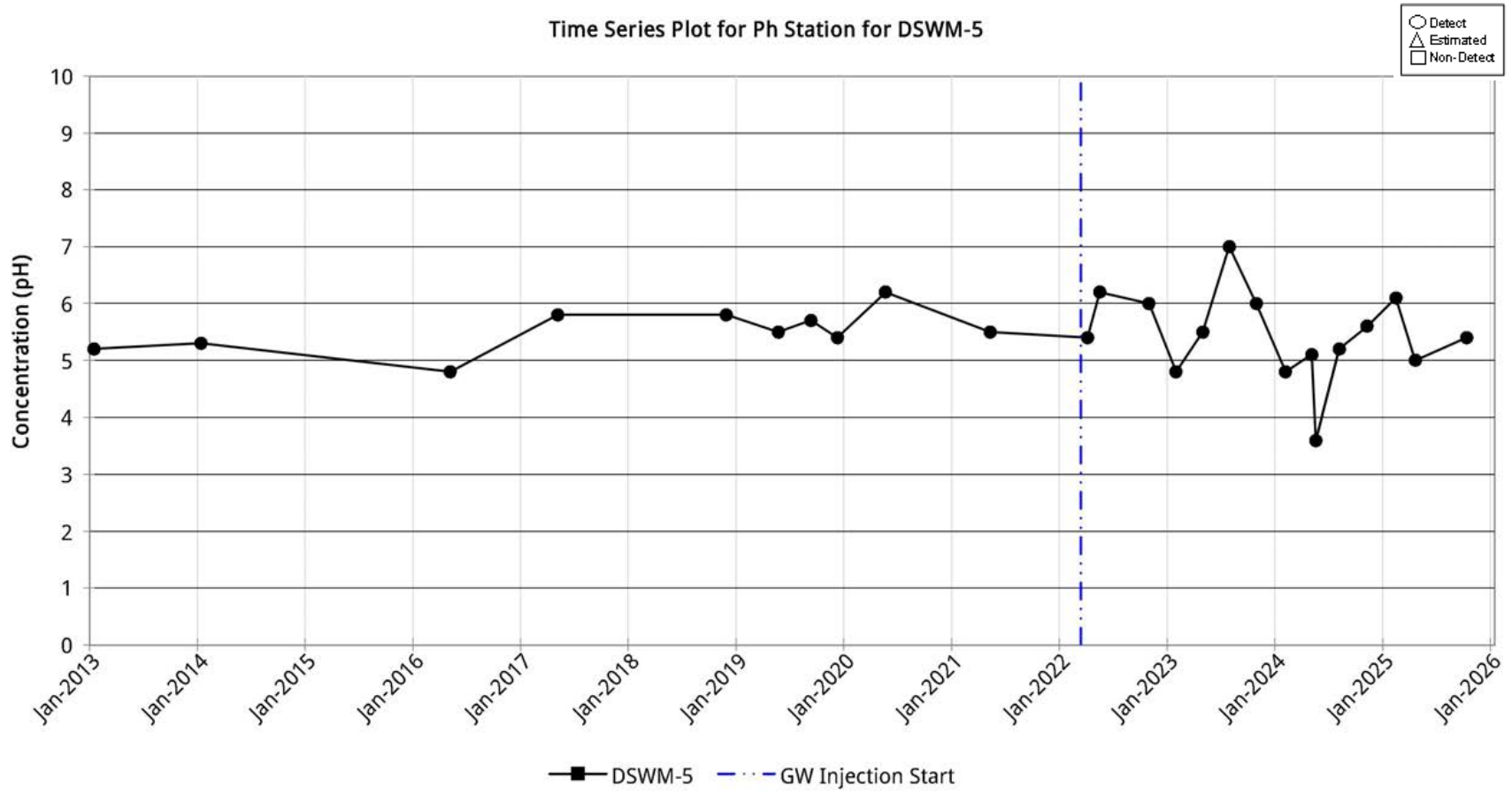
Note: Well DCB078 is a replacement well for DCB 47C

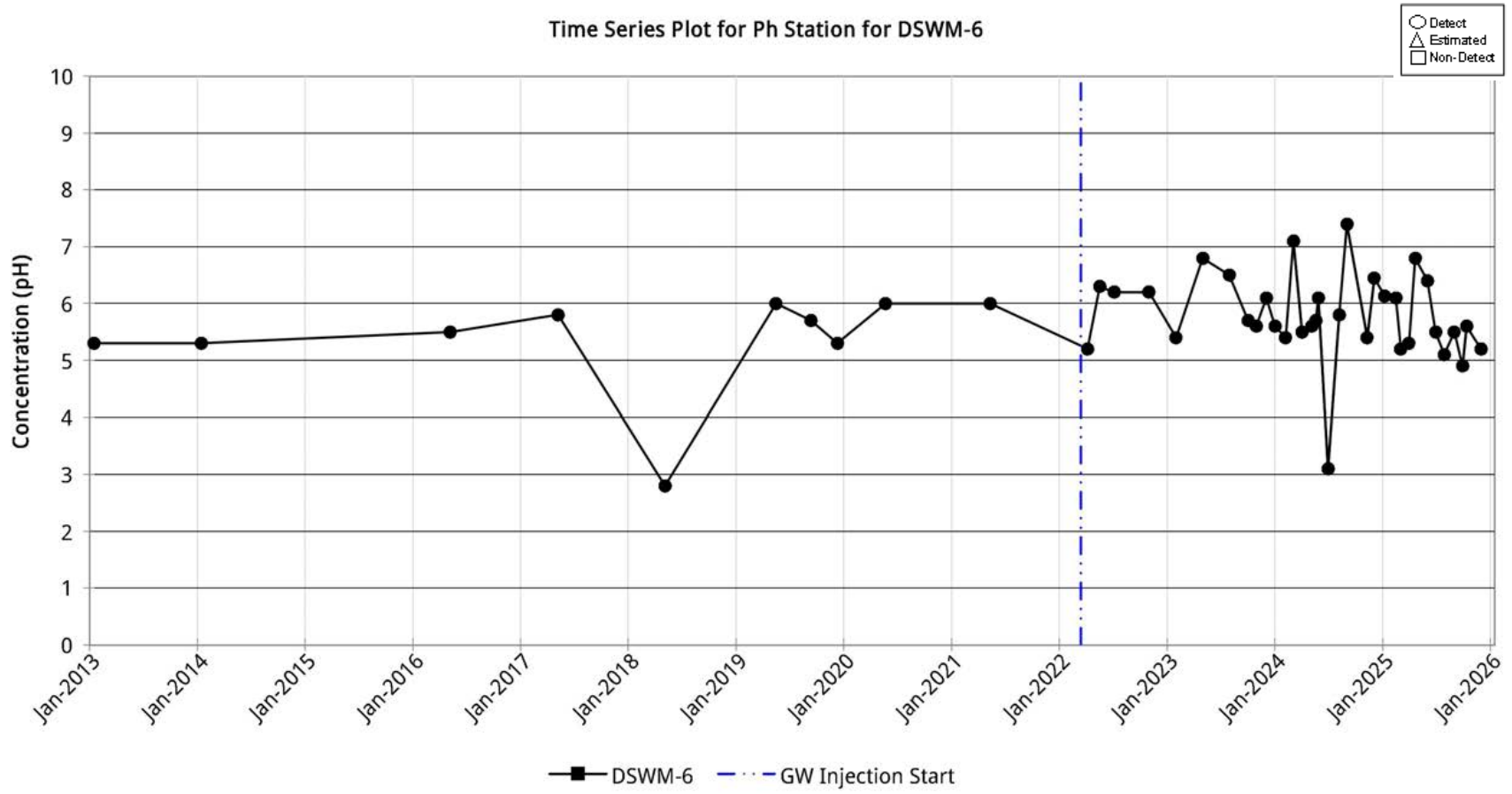

Time Series Plot for Ph Station for DCB079
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
GW Injection Start

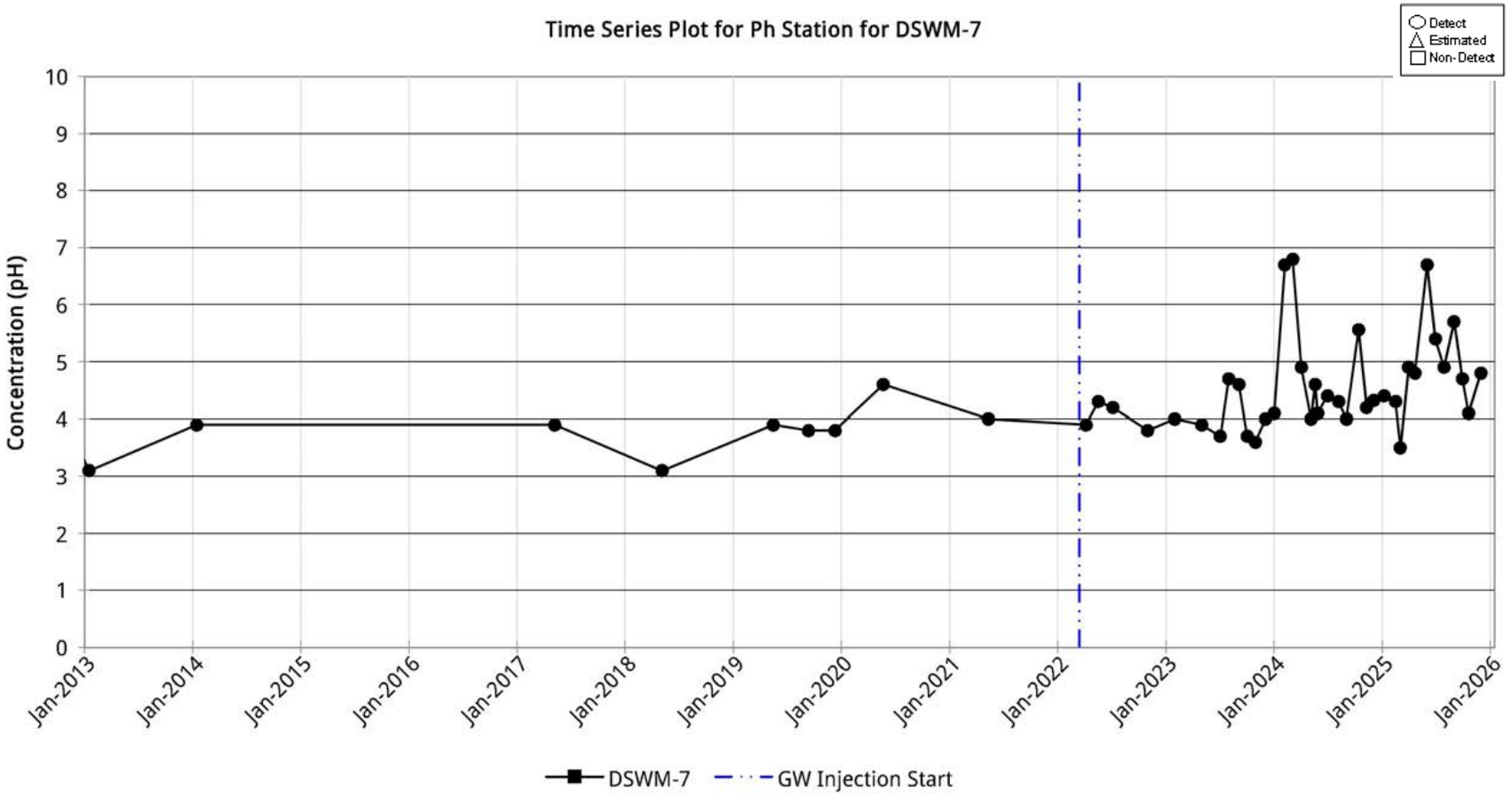

Time Series Plot for Ph Station for DCB080
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
GW Injection Start

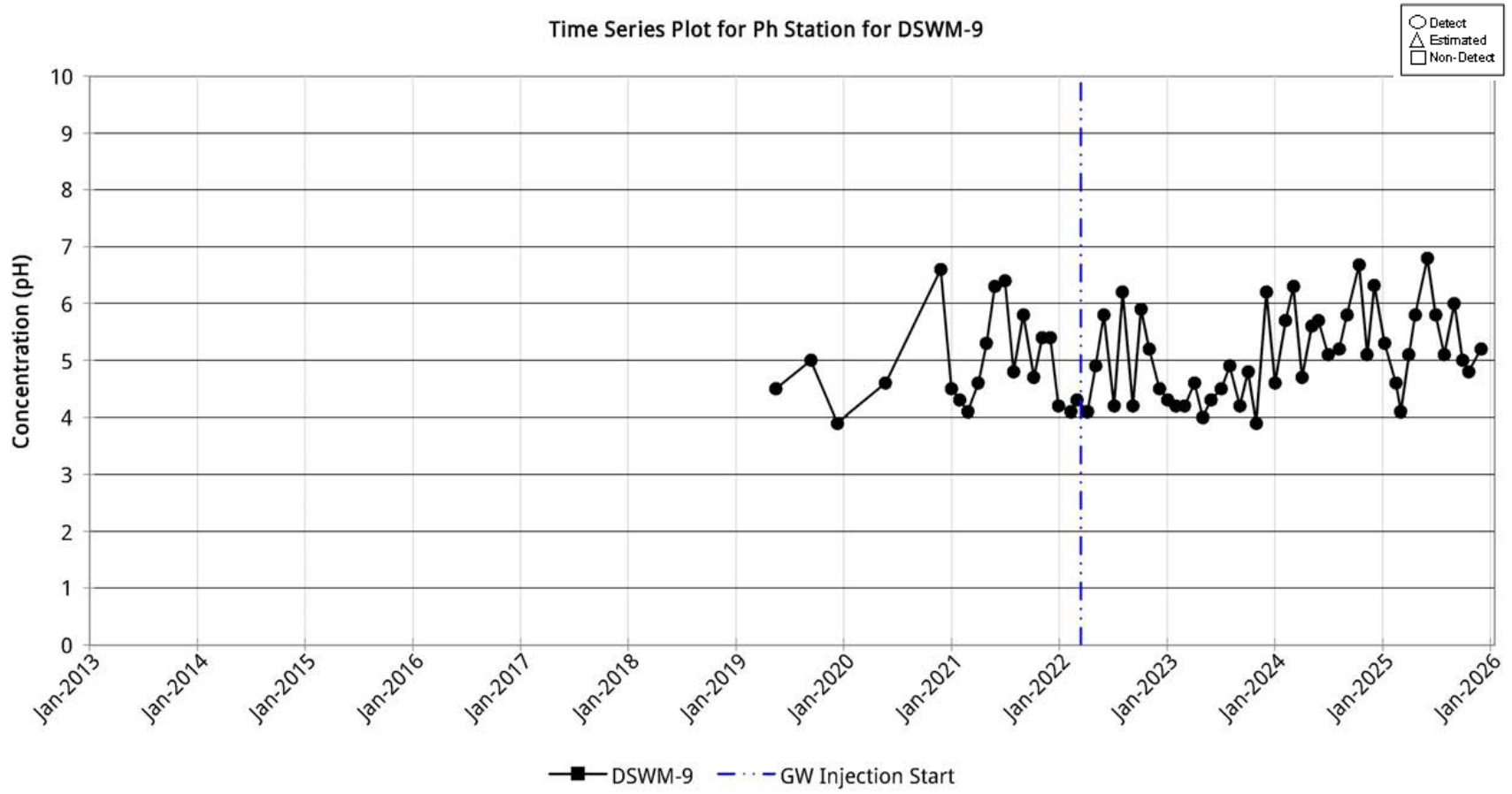

Time Series Plot for Ph Station for DCB087
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
GW Injection Start

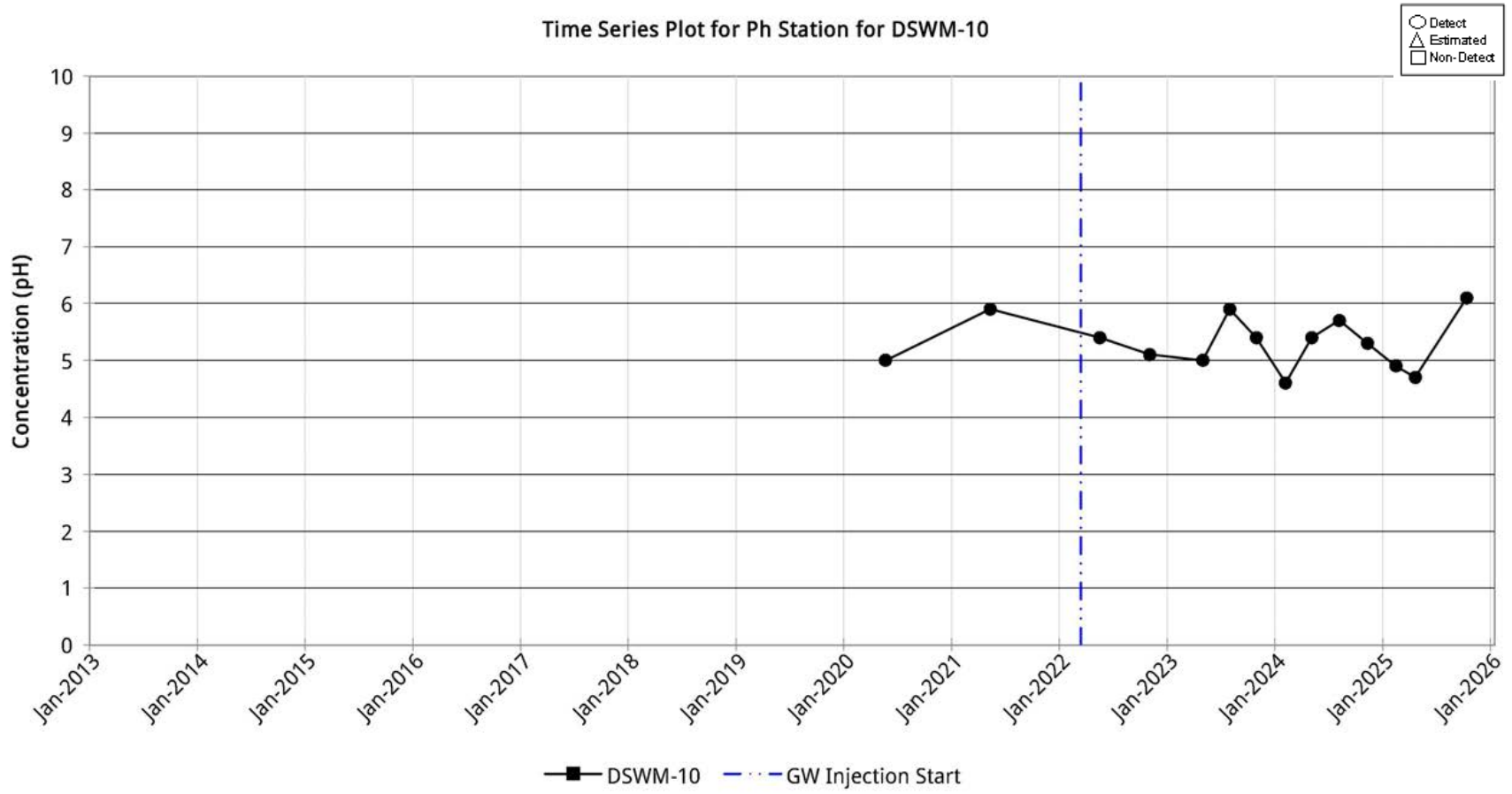

Time Series Plot for Ph Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
GW Injection Start

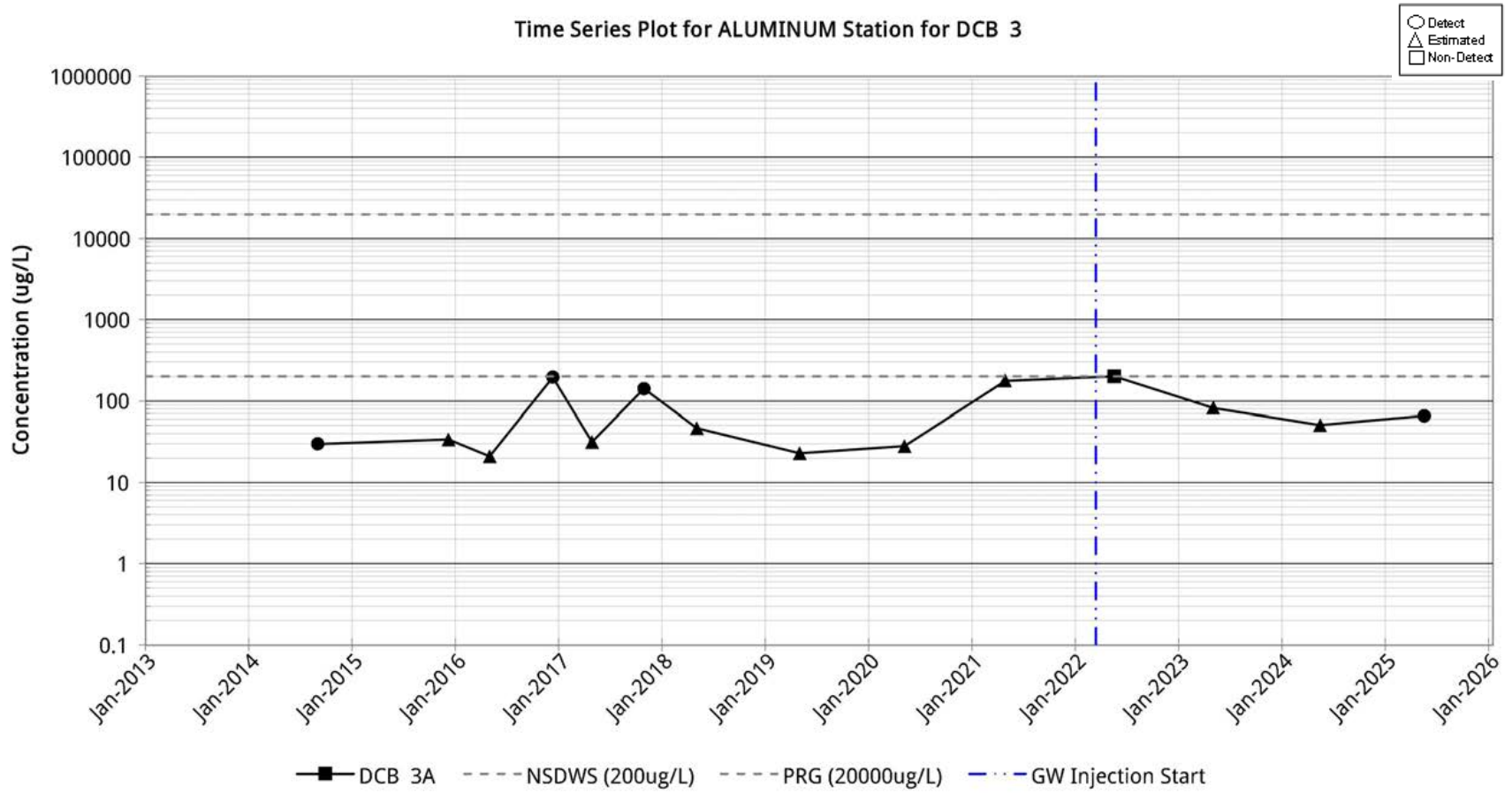

Time Series Plot for Ph Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
GW Injection Start

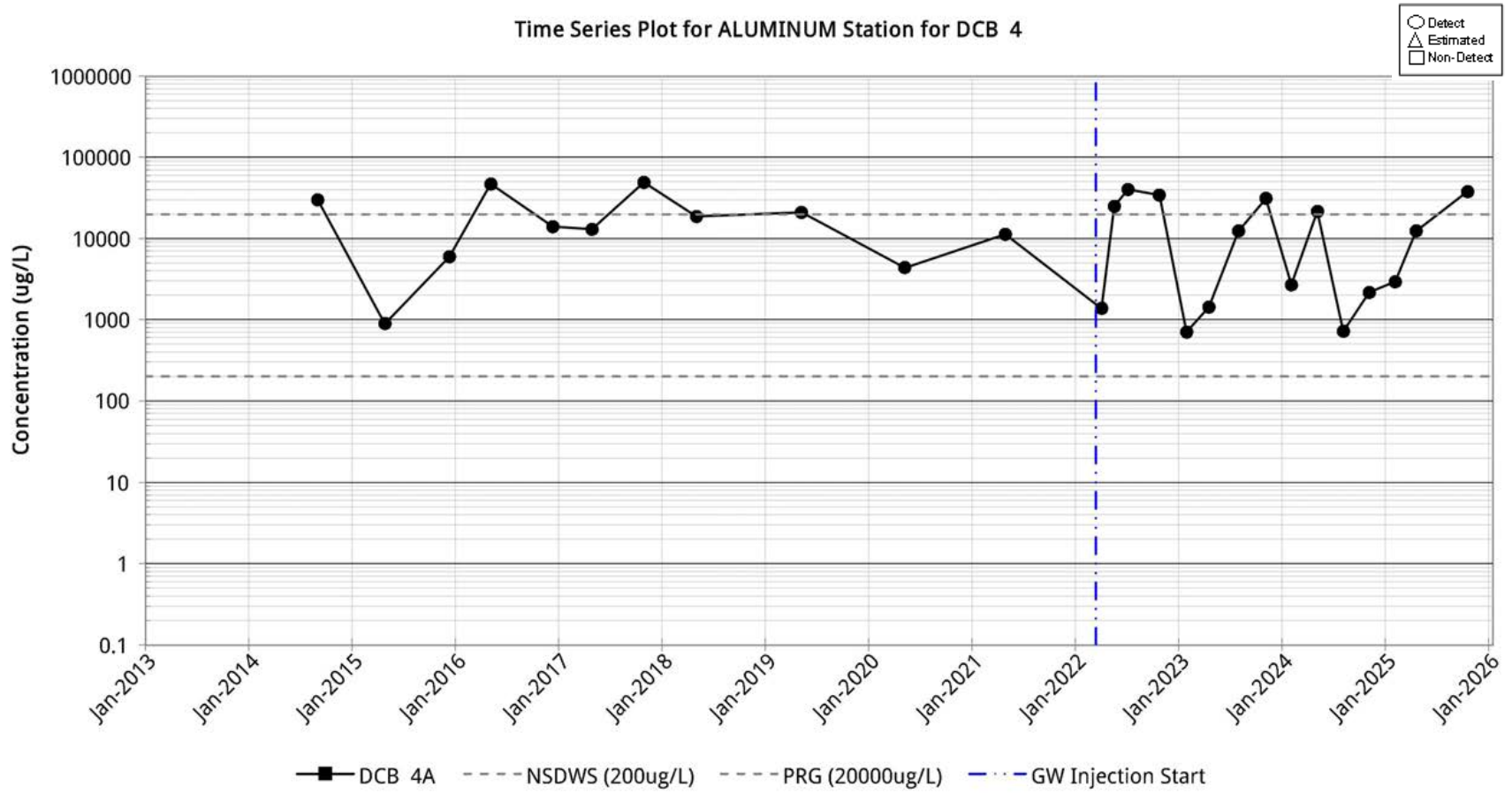

Time Series Plot for Ph Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
GW Injection Start

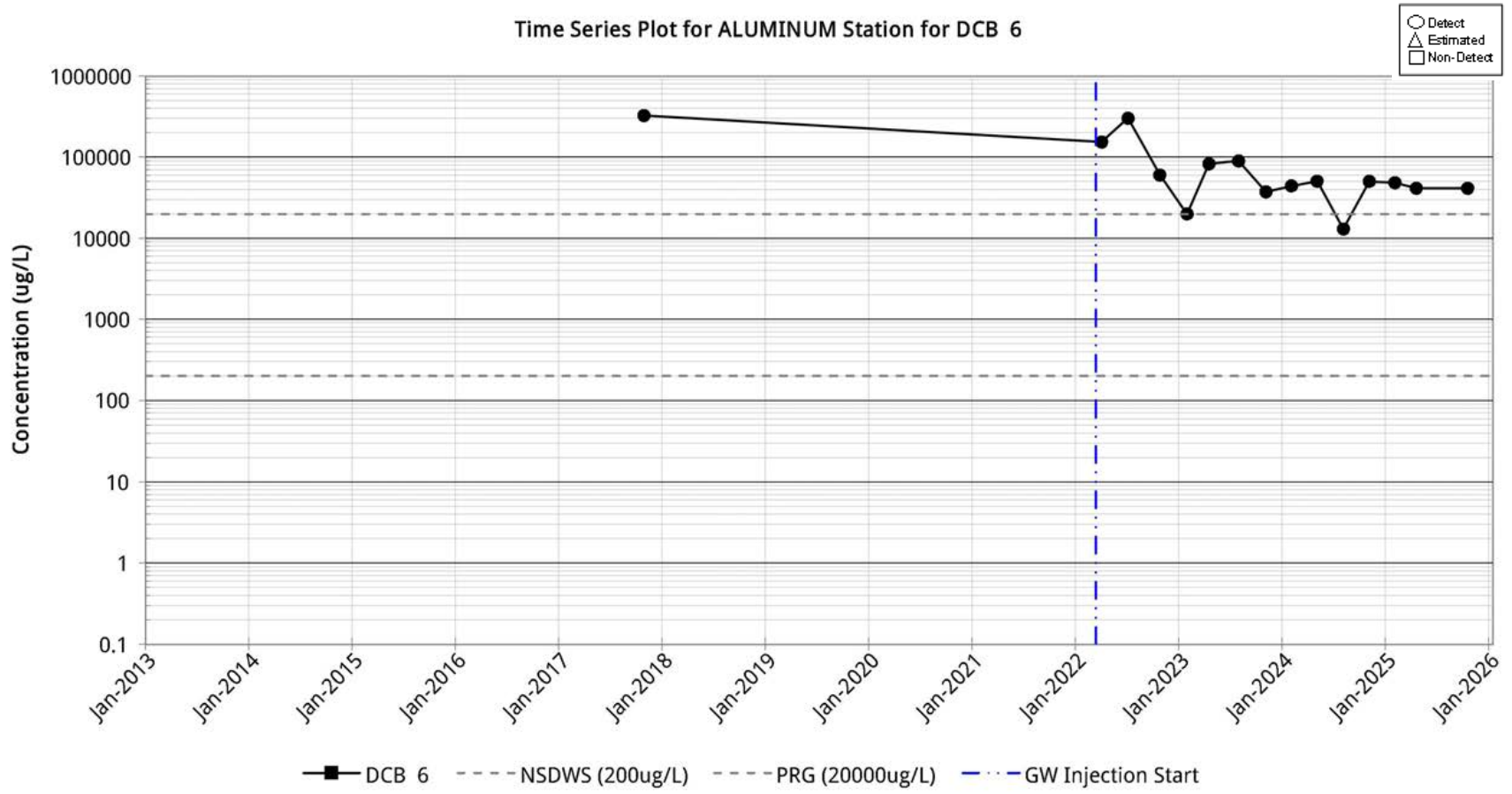

Time Series Plot for Ph Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
GW Injection Start

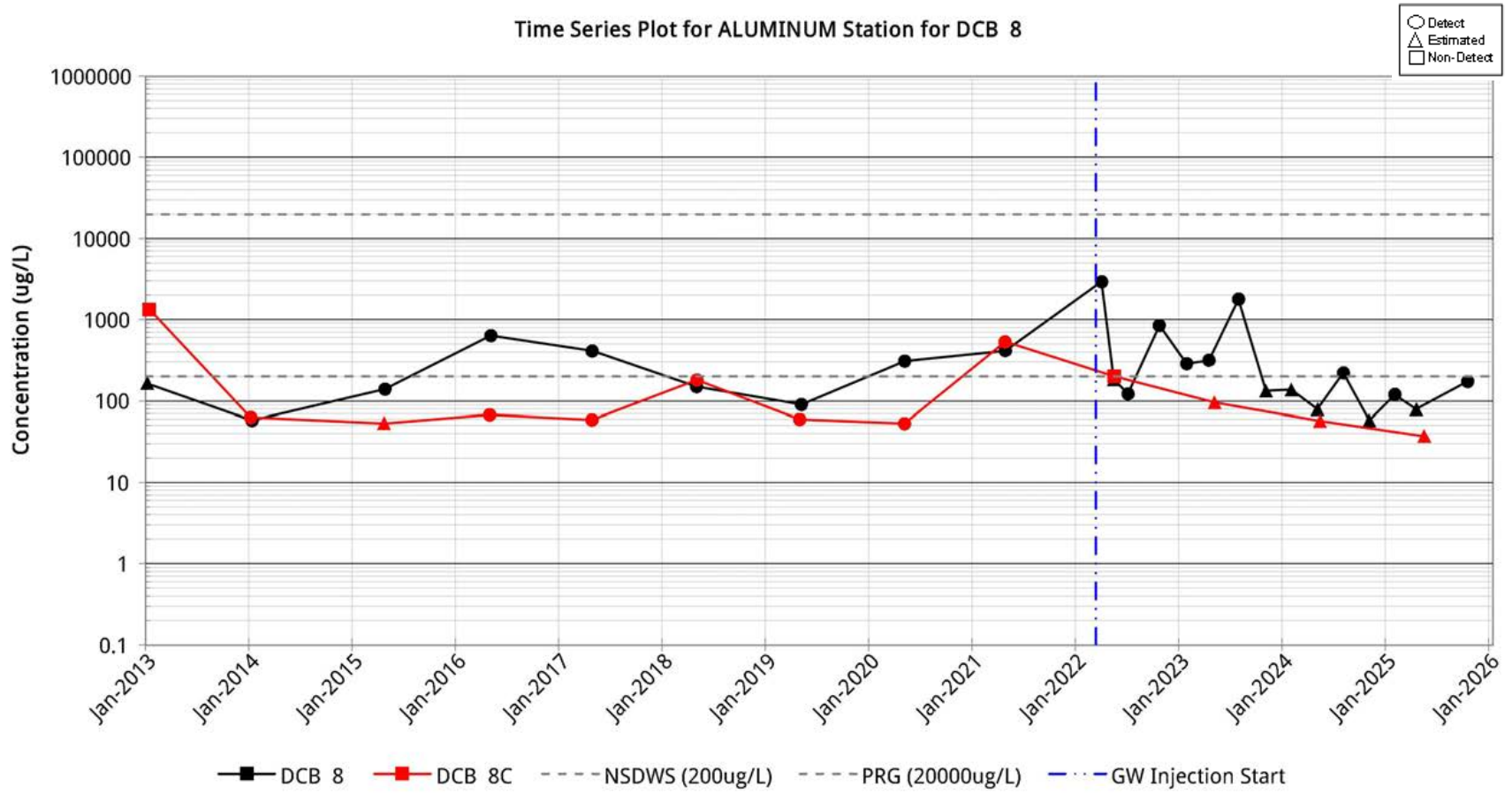

Time Series Plot for Ph Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
GW Injection Start

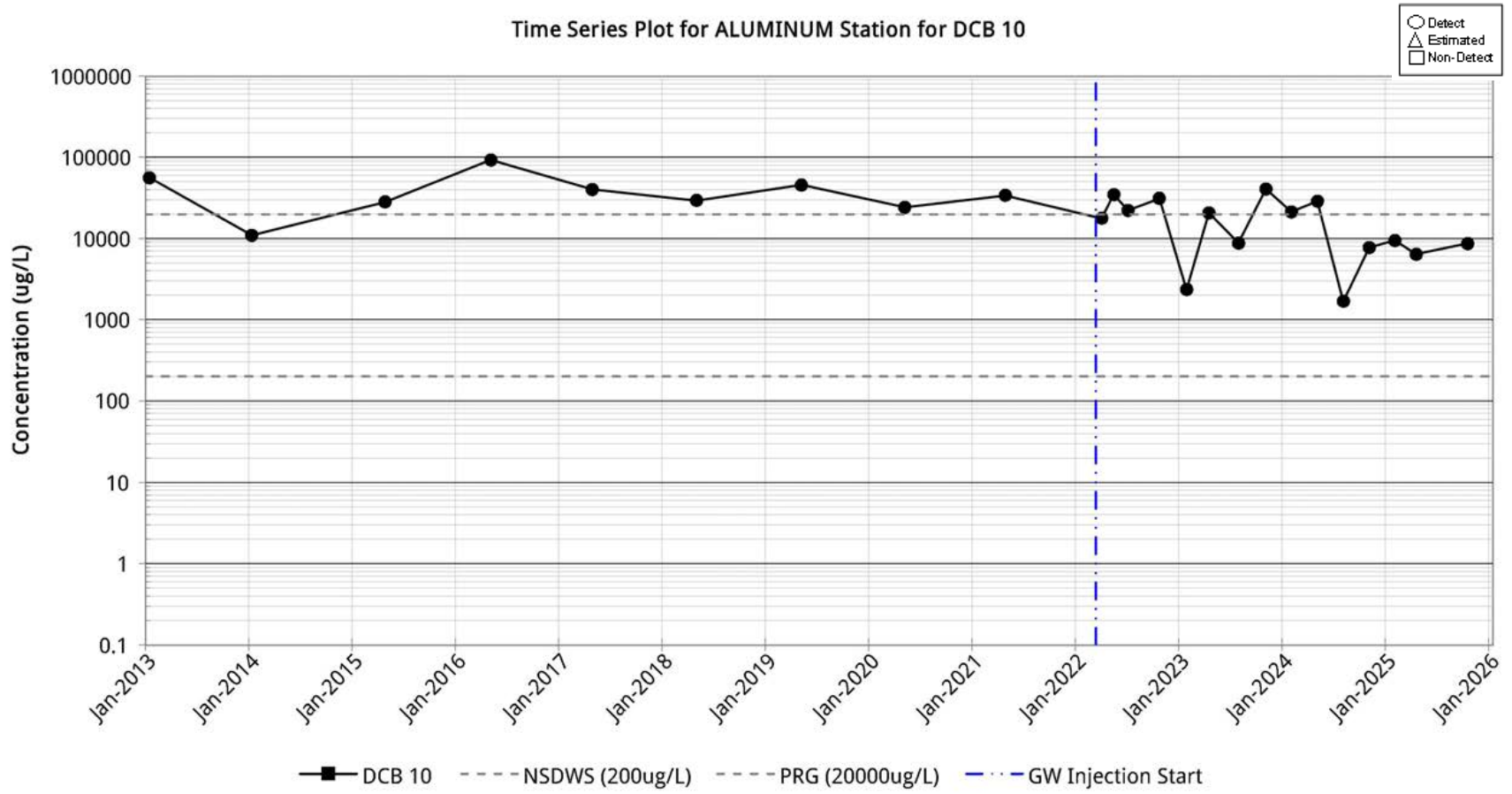

Time Series Plot for Ph Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (pH)
10
9
8
7
6
5
4
3
2
1
0
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
GW Injection Start

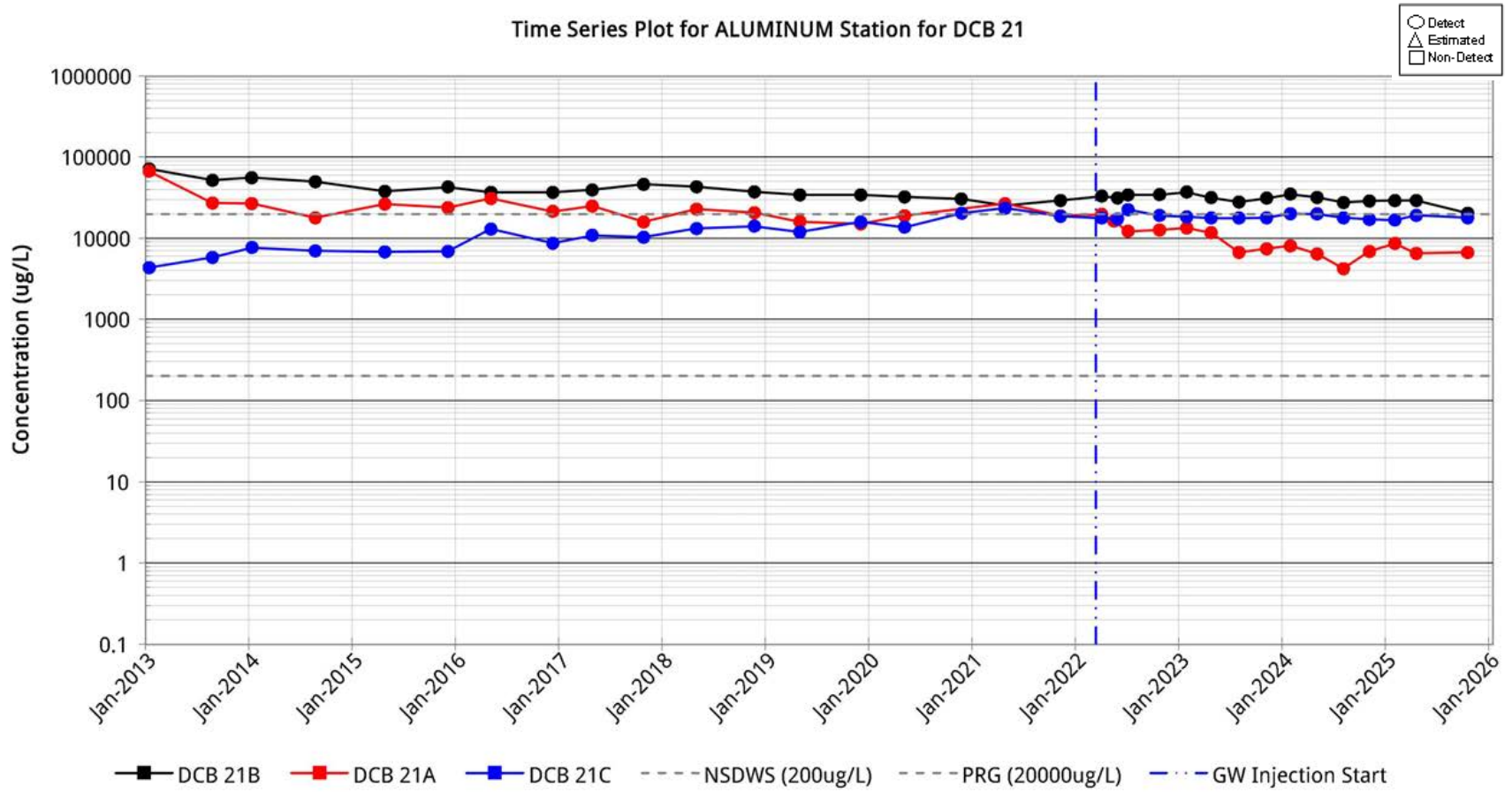

Time Series Plot for ALUMINUM Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

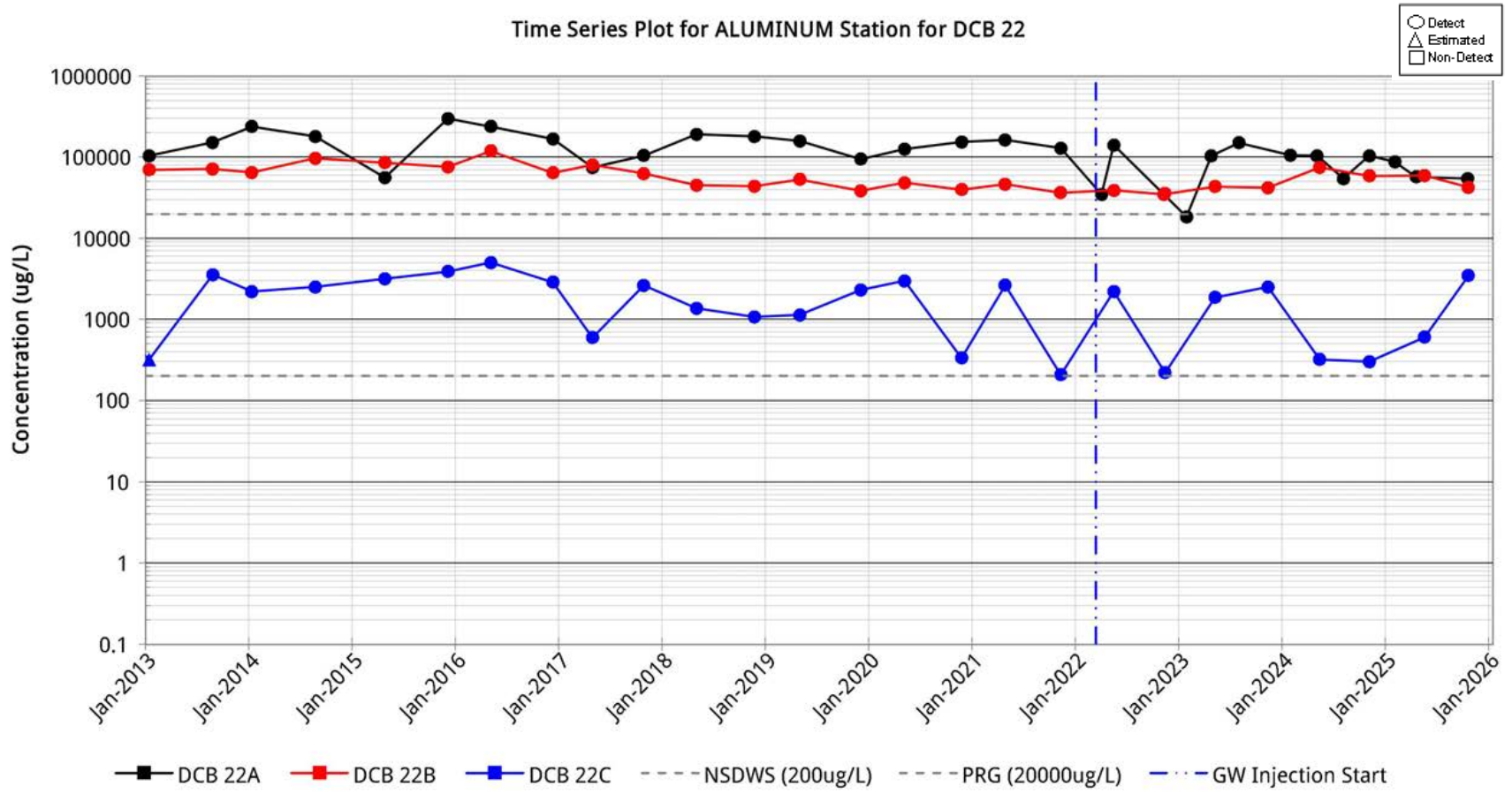

Time Series Plot for ALUMINUM Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

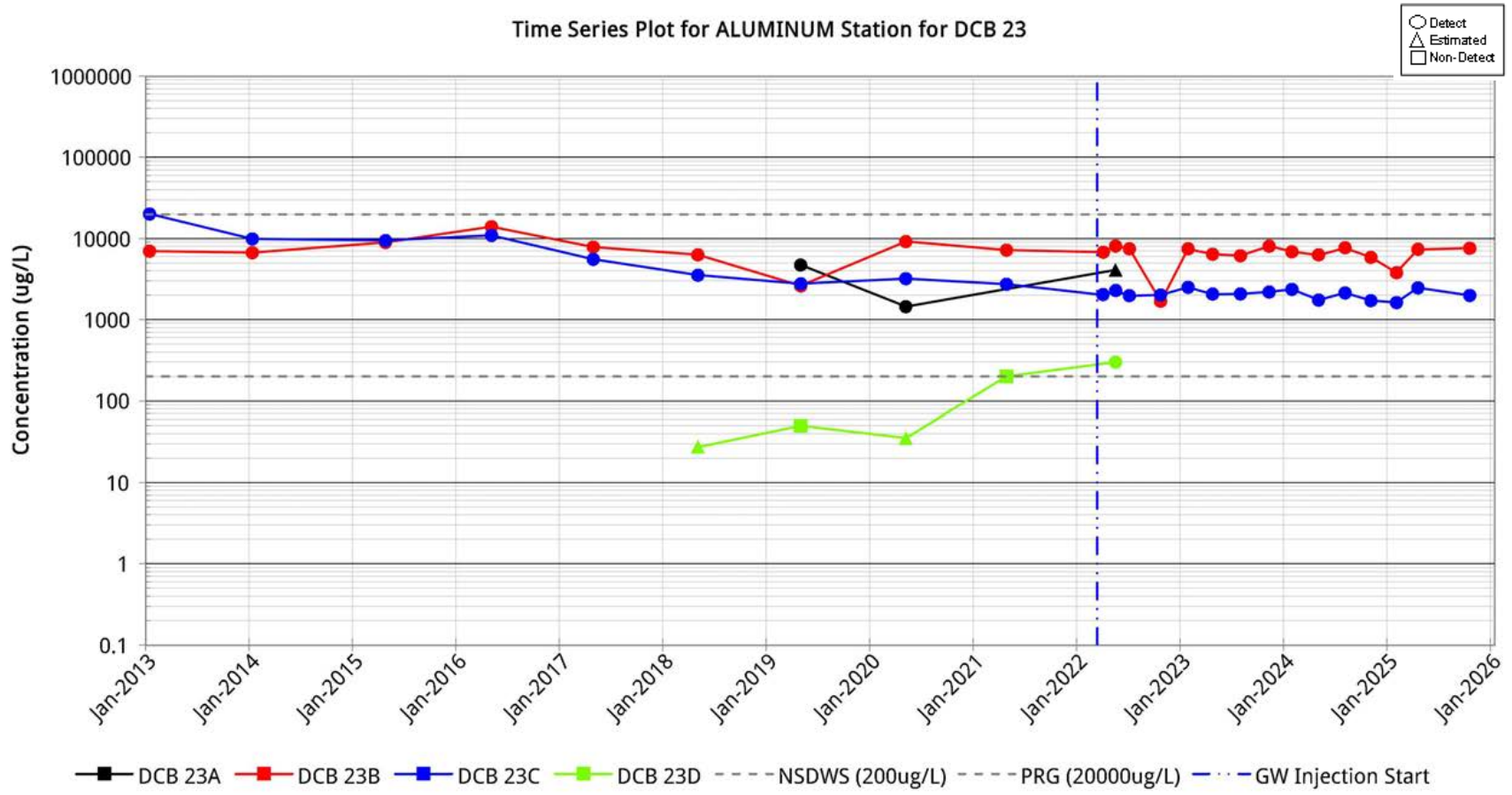

Time Series Plot for ALUMINUM Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

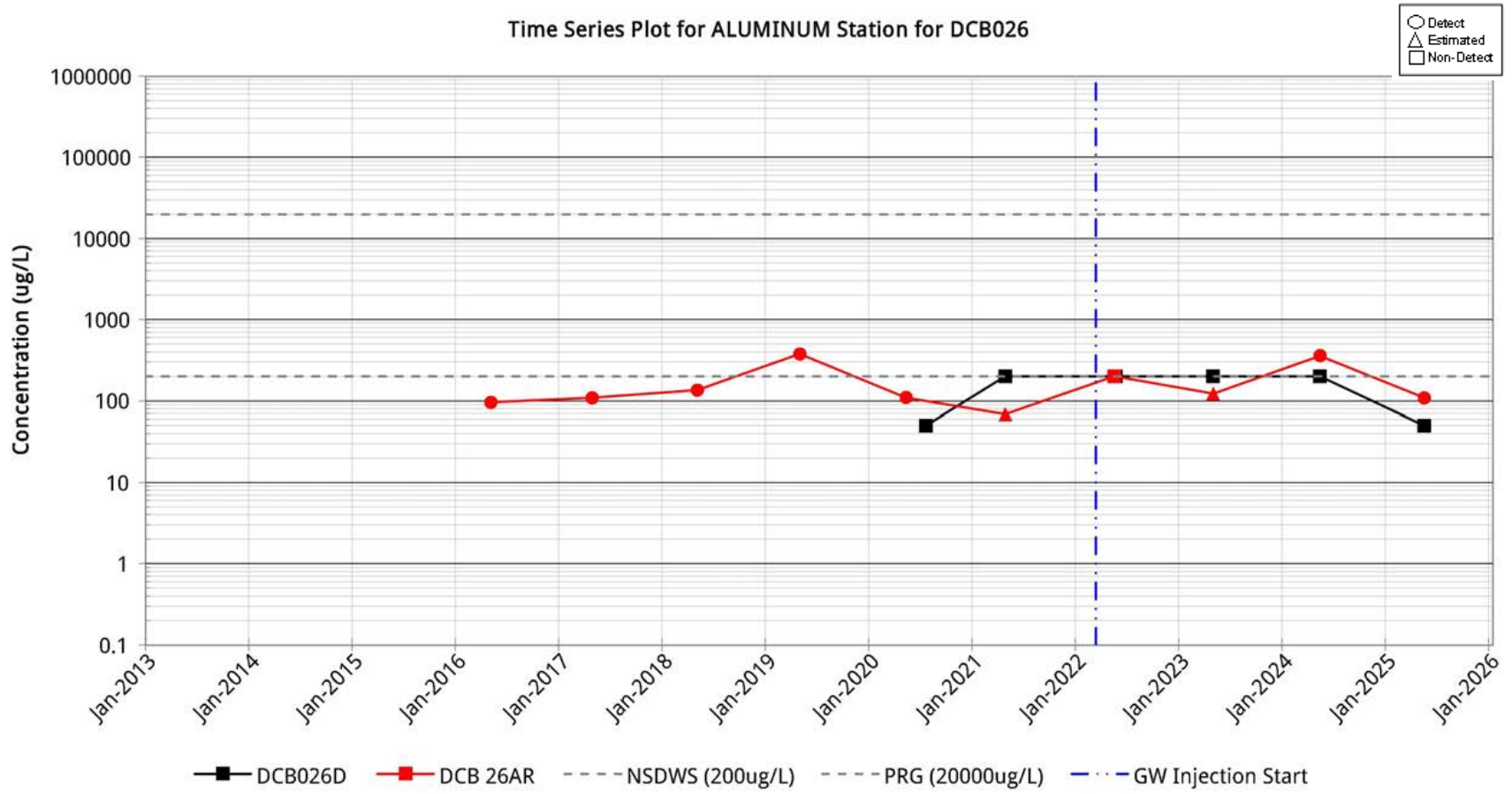

Time Series Plot for ALUMINUM Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

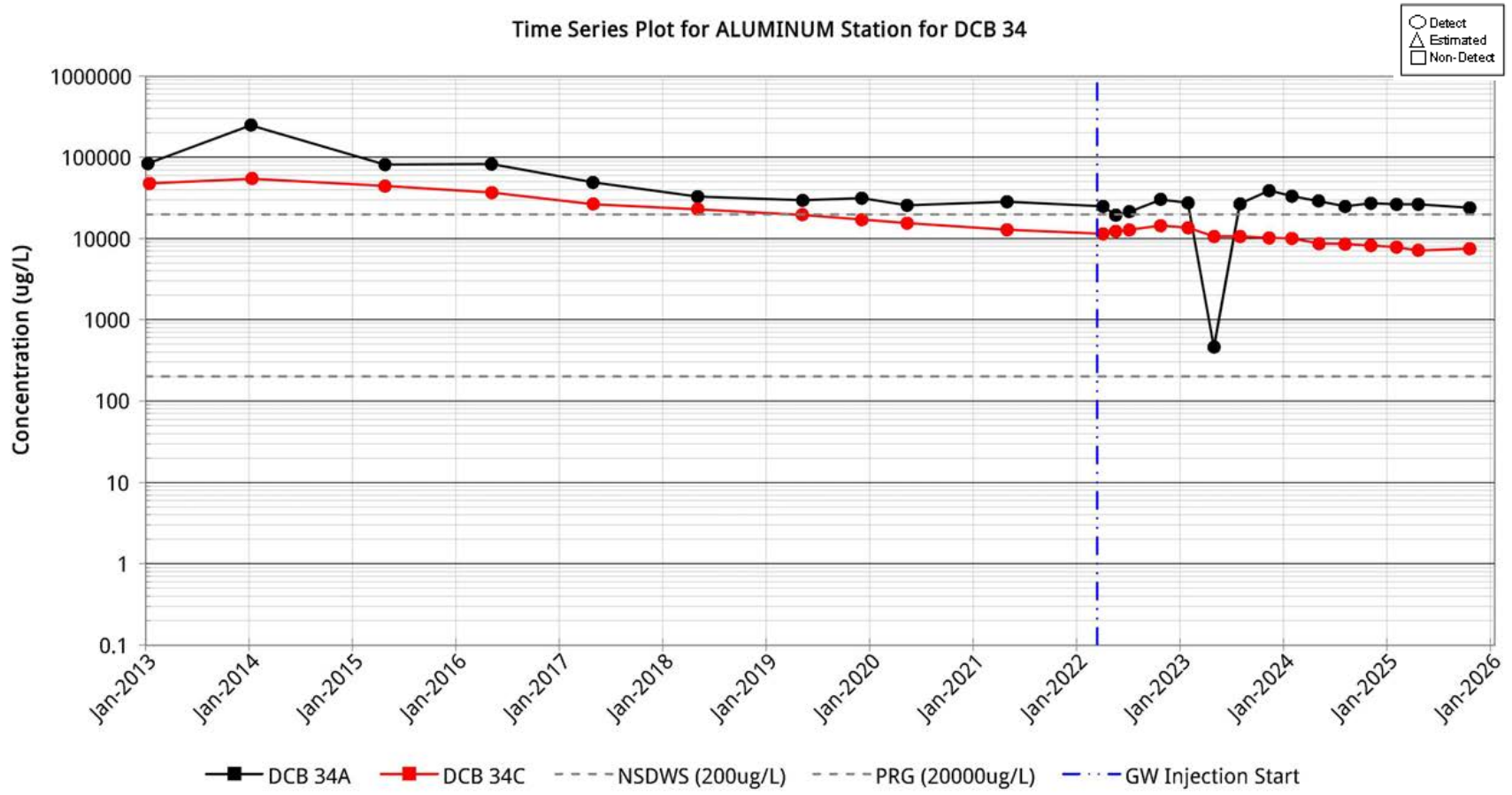

Time Series Plot for ALUMINUM Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

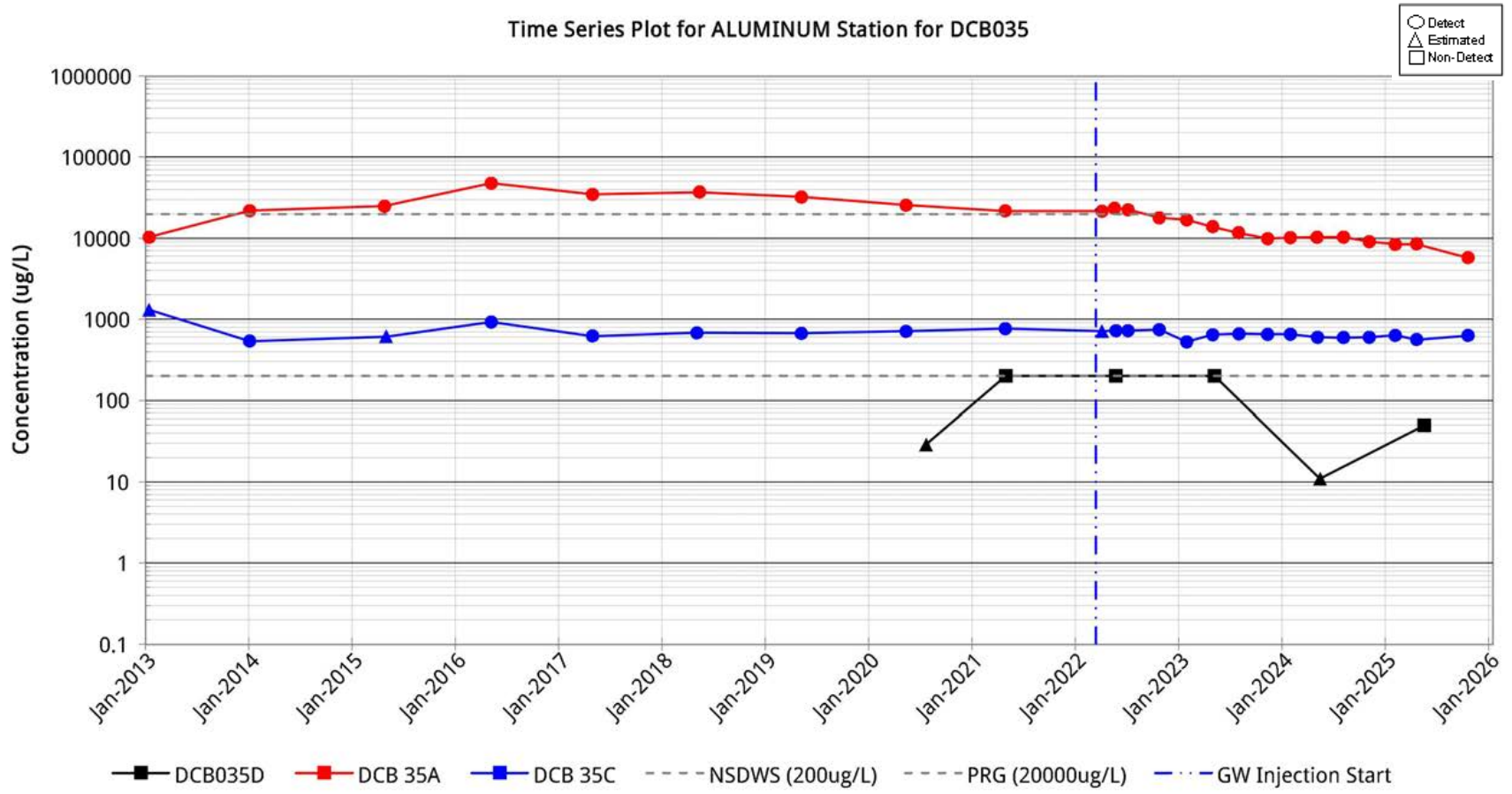

Time Series Plot for ALUMINUM Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

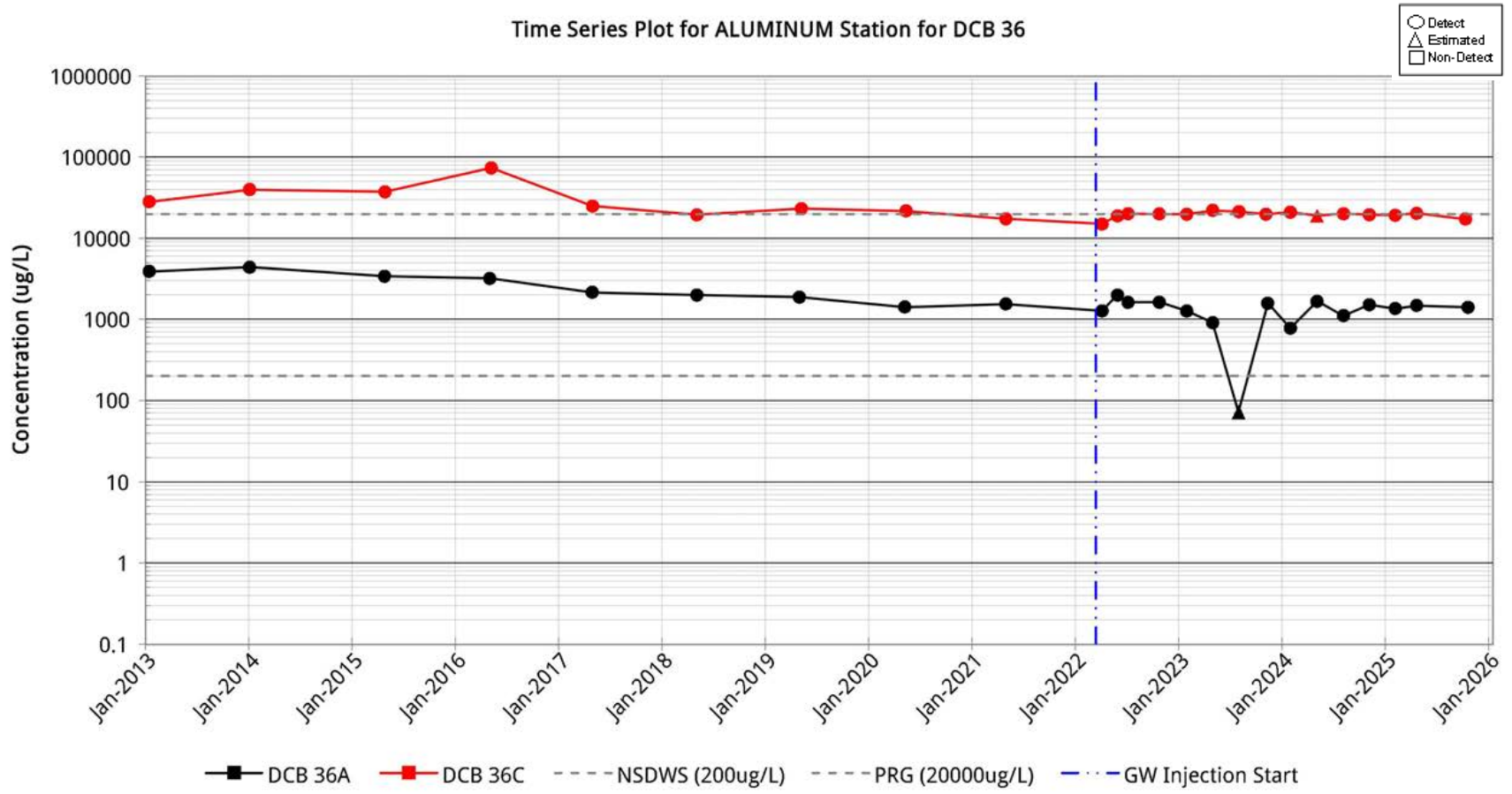

Time Series Plot for ALUMINUM Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

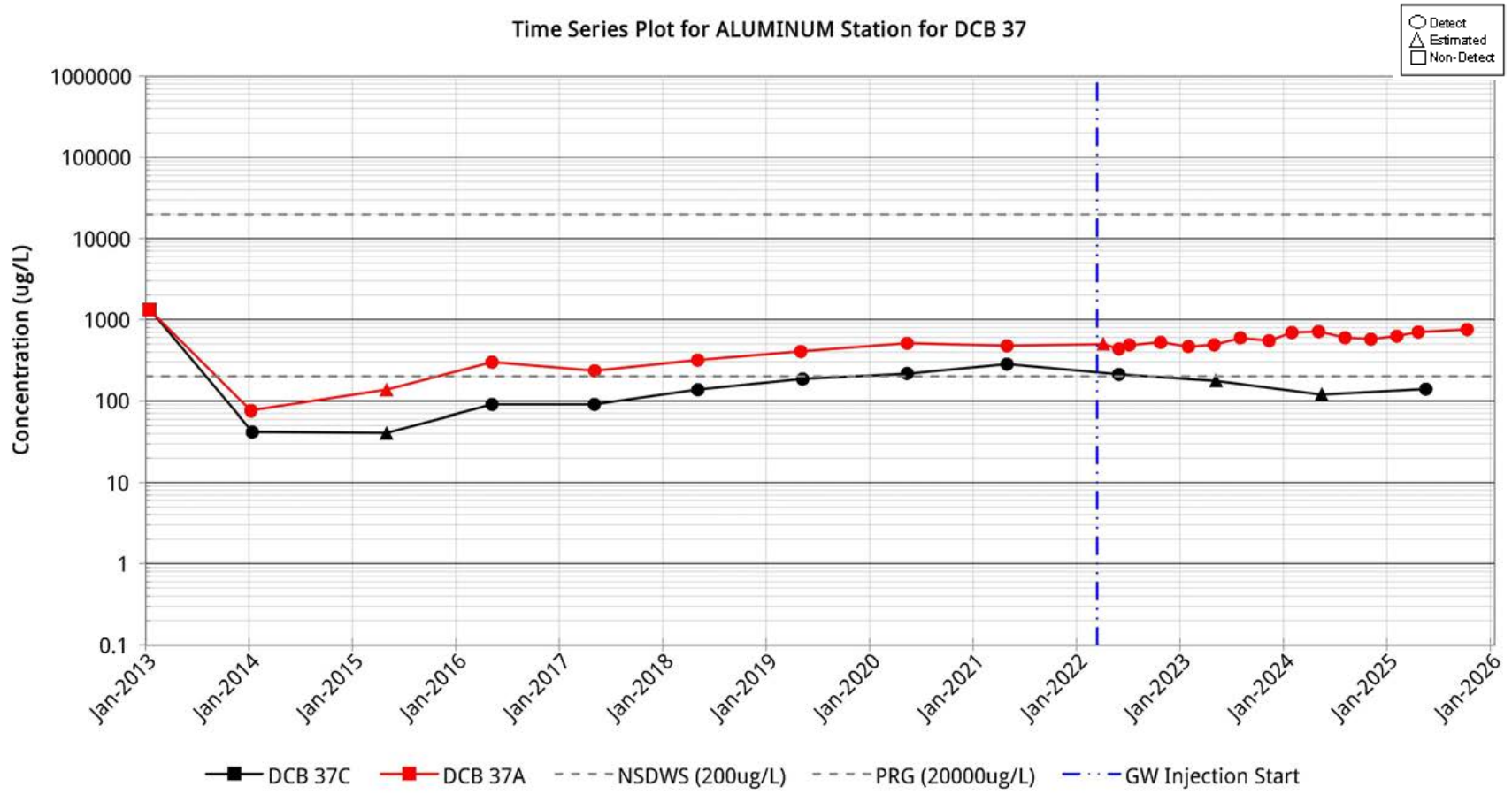

Time Series Plot for ALUMINUM Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

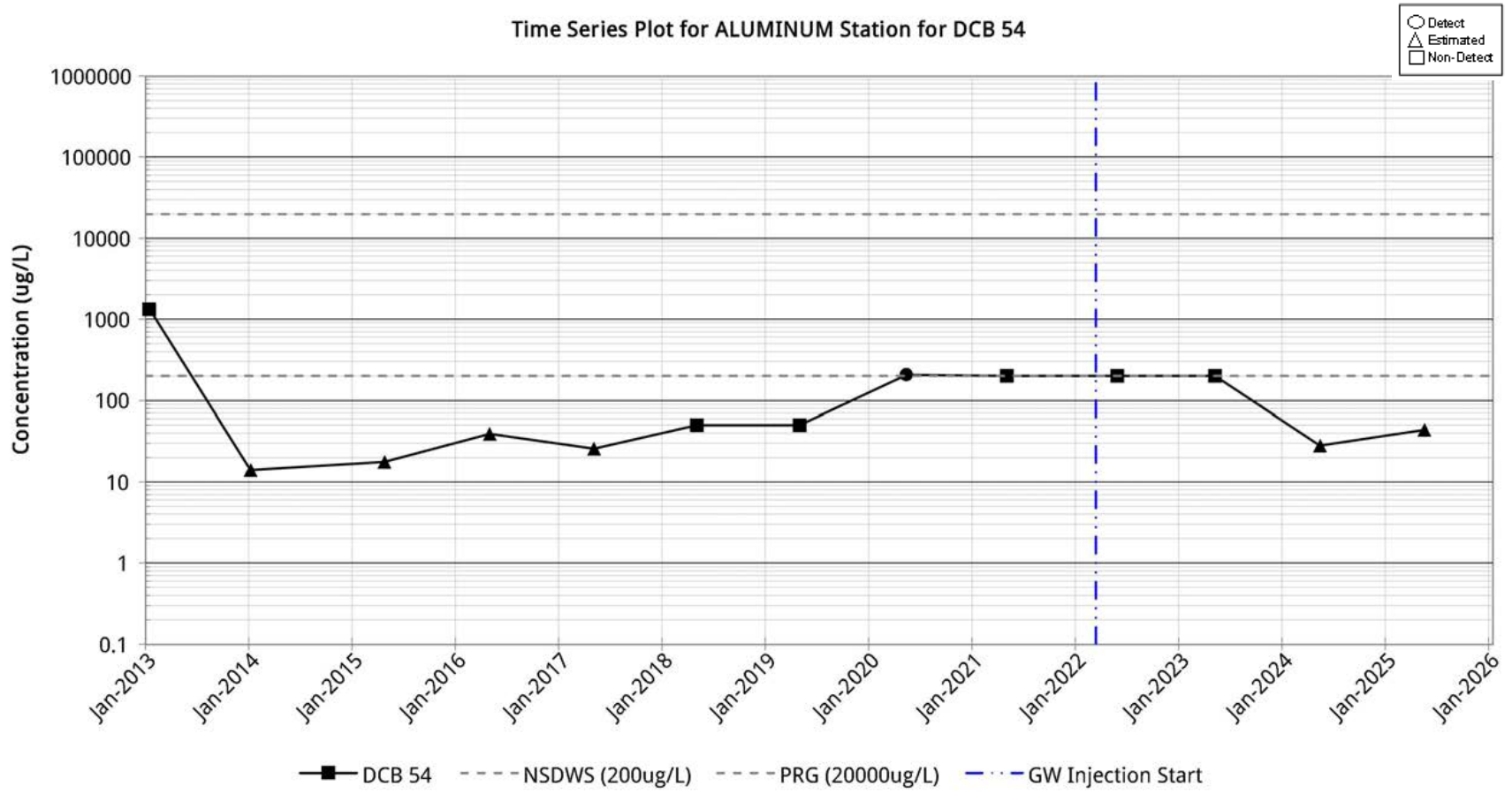

Time Series Plot for ALUMINUM Station for DCB026
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

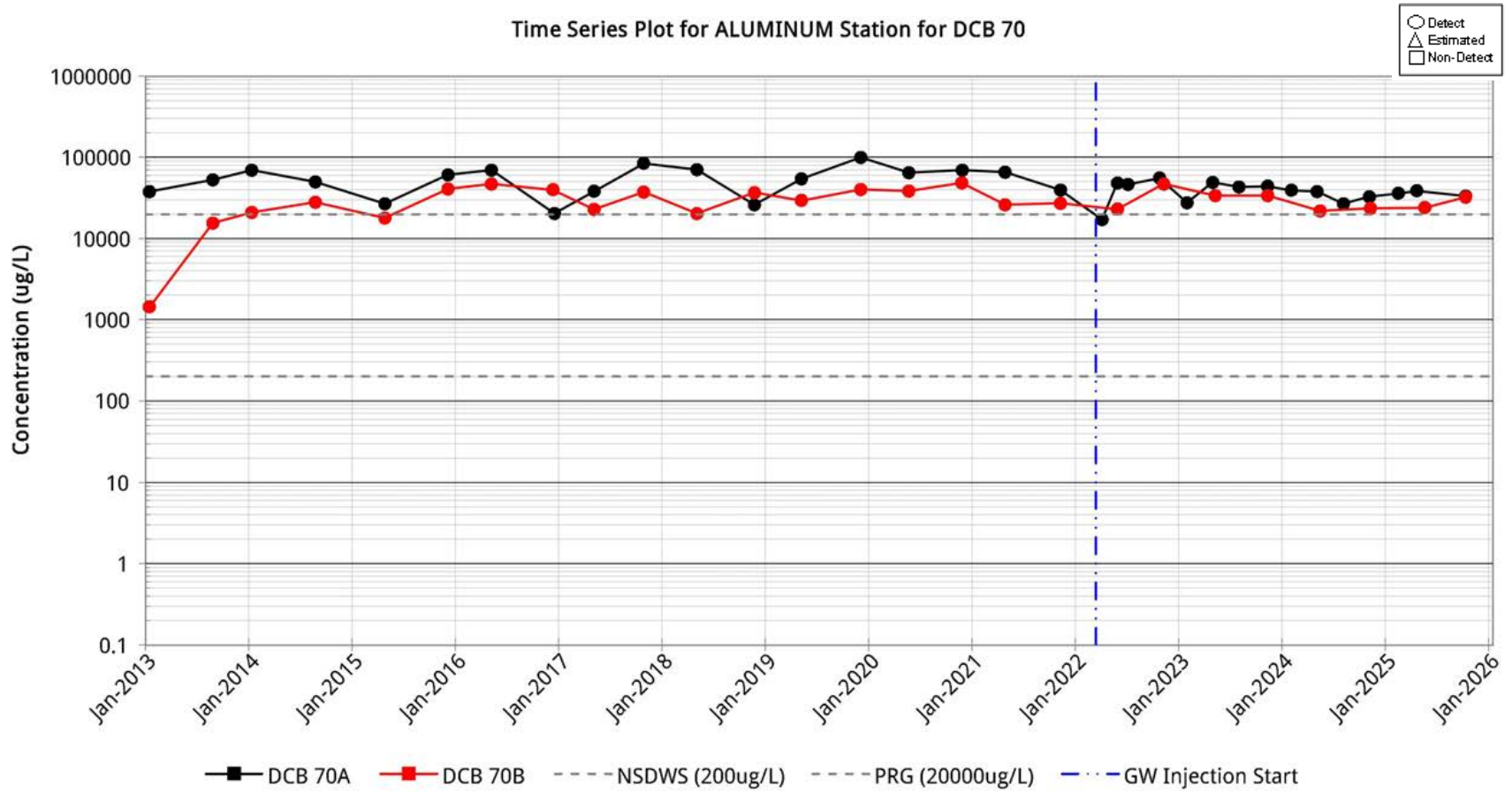

Time Series Plot for ALUMINUM Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

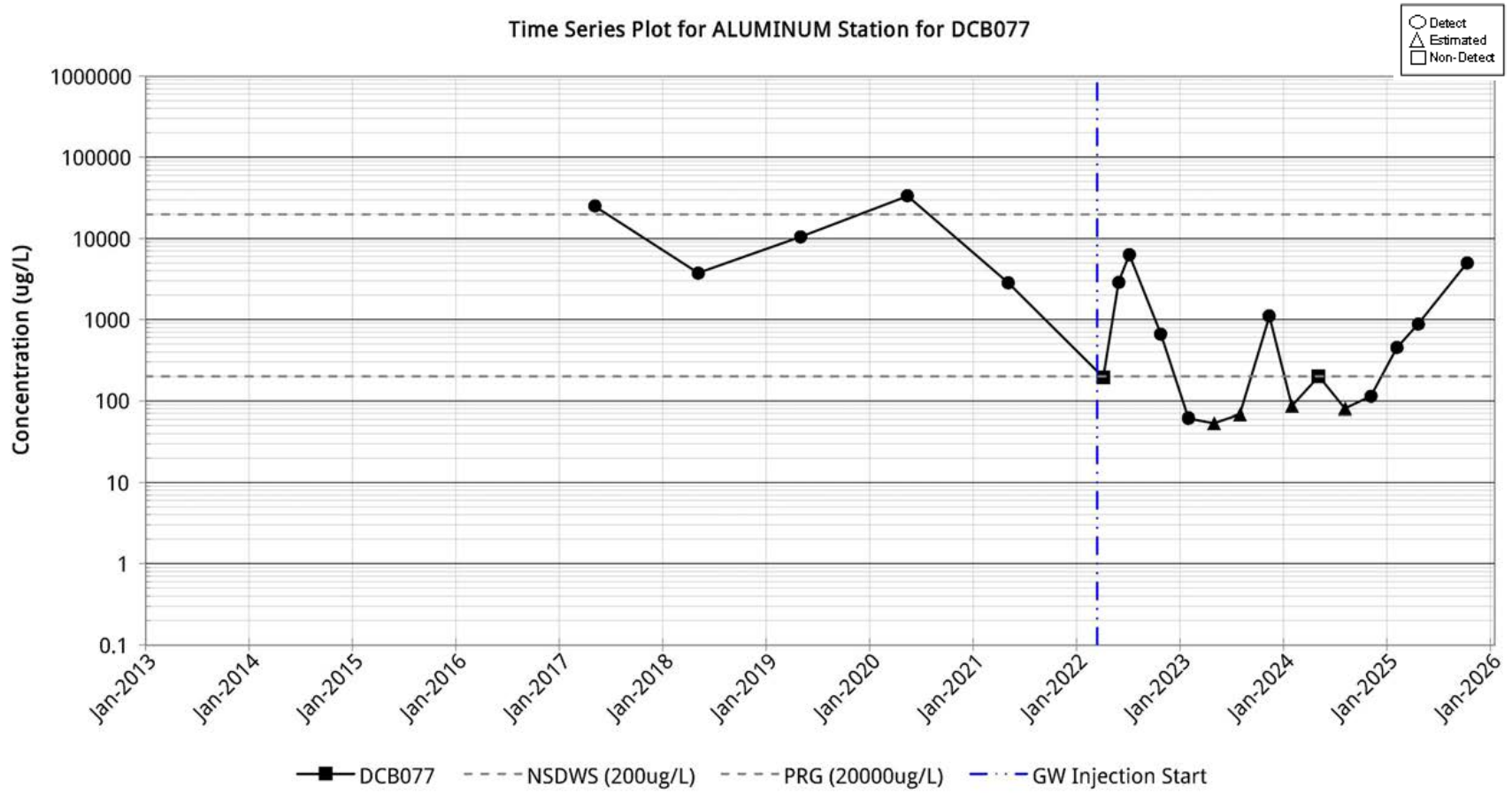

Time Series Plot for ALUMINUM Station for DCB035
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

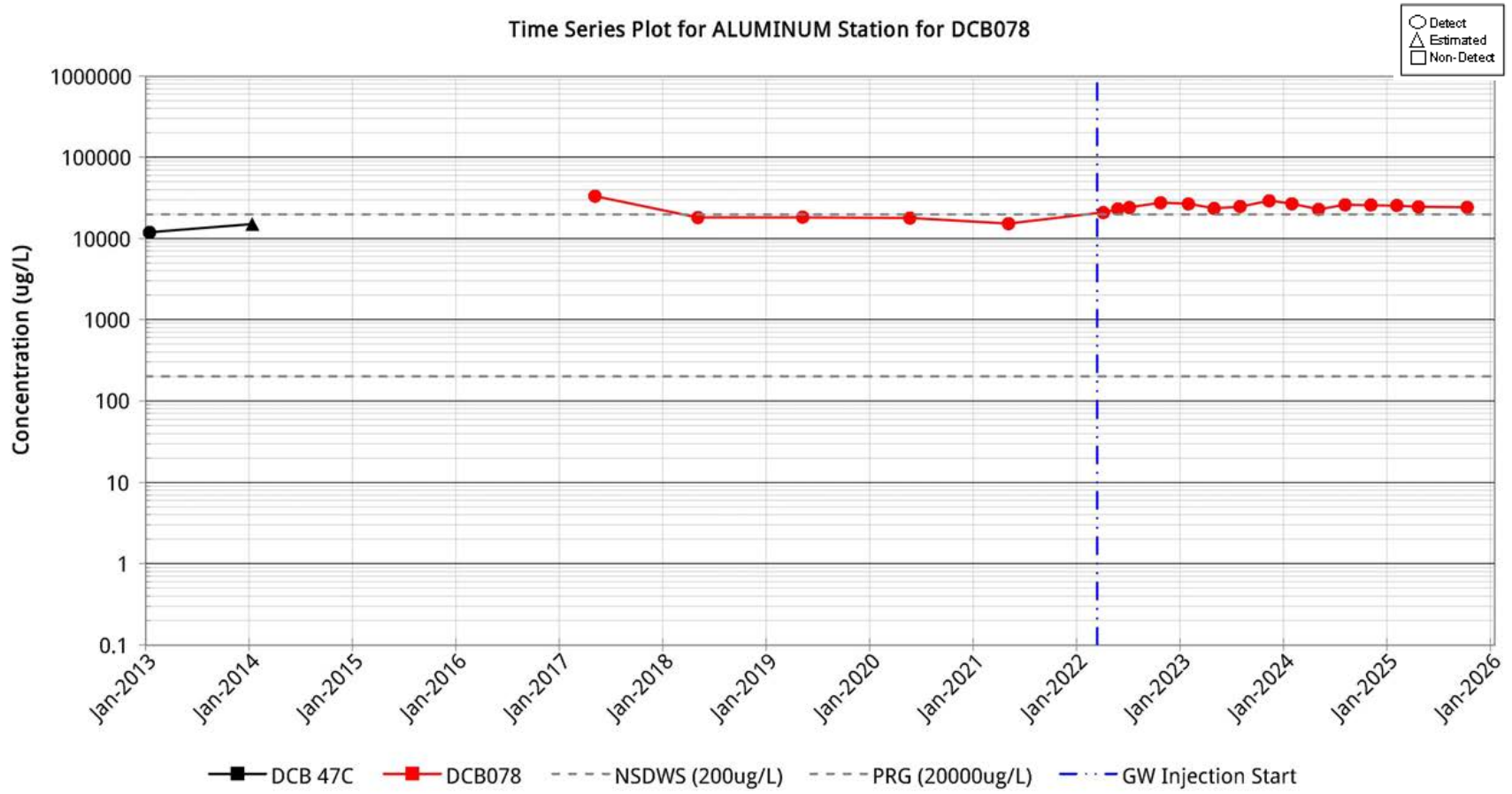

Time Series Plot for ALUMINUM Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start


Time Series Plot for ALUMINUM Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

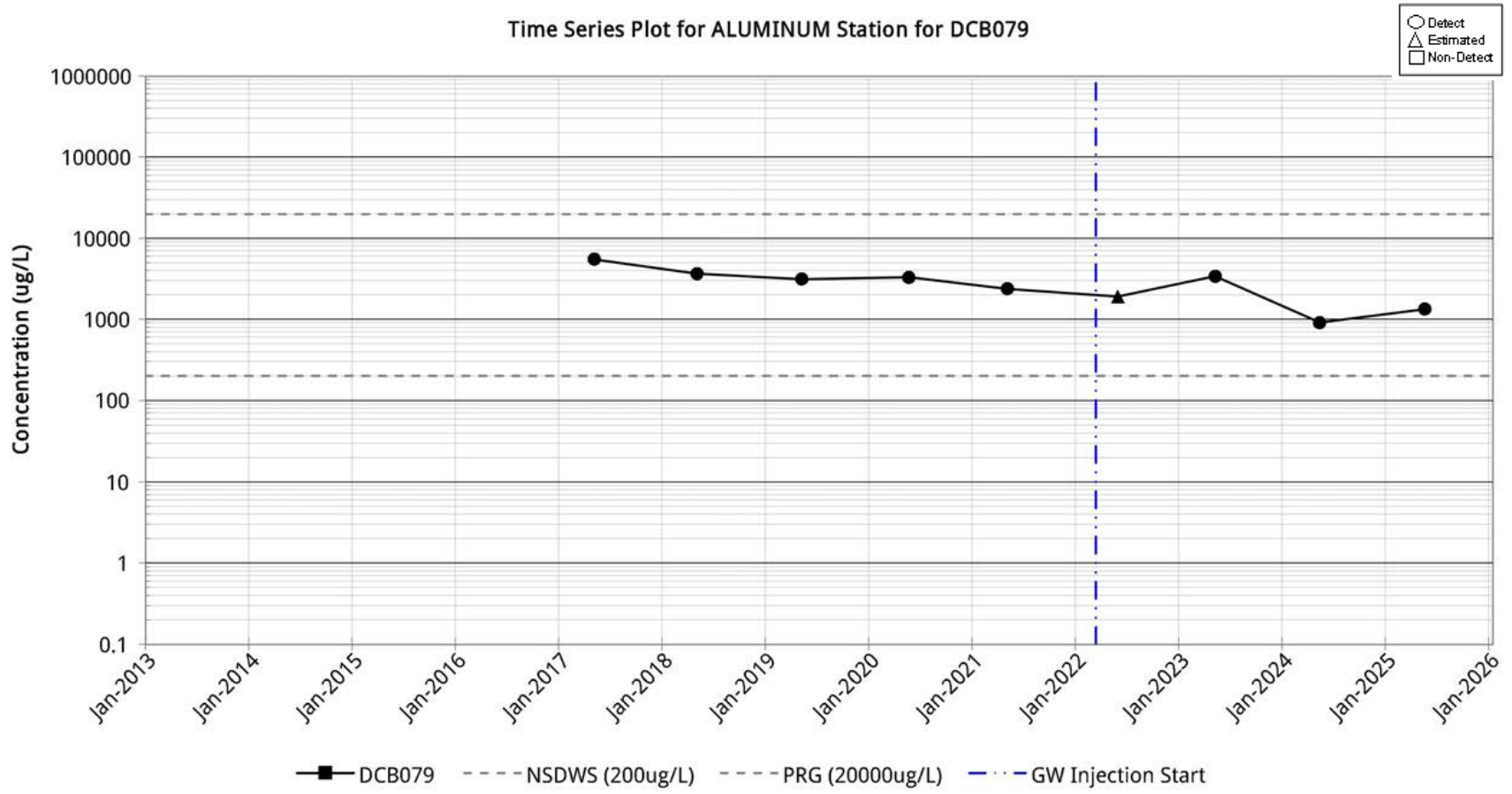

Time Series Plot for ALUMINUM Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

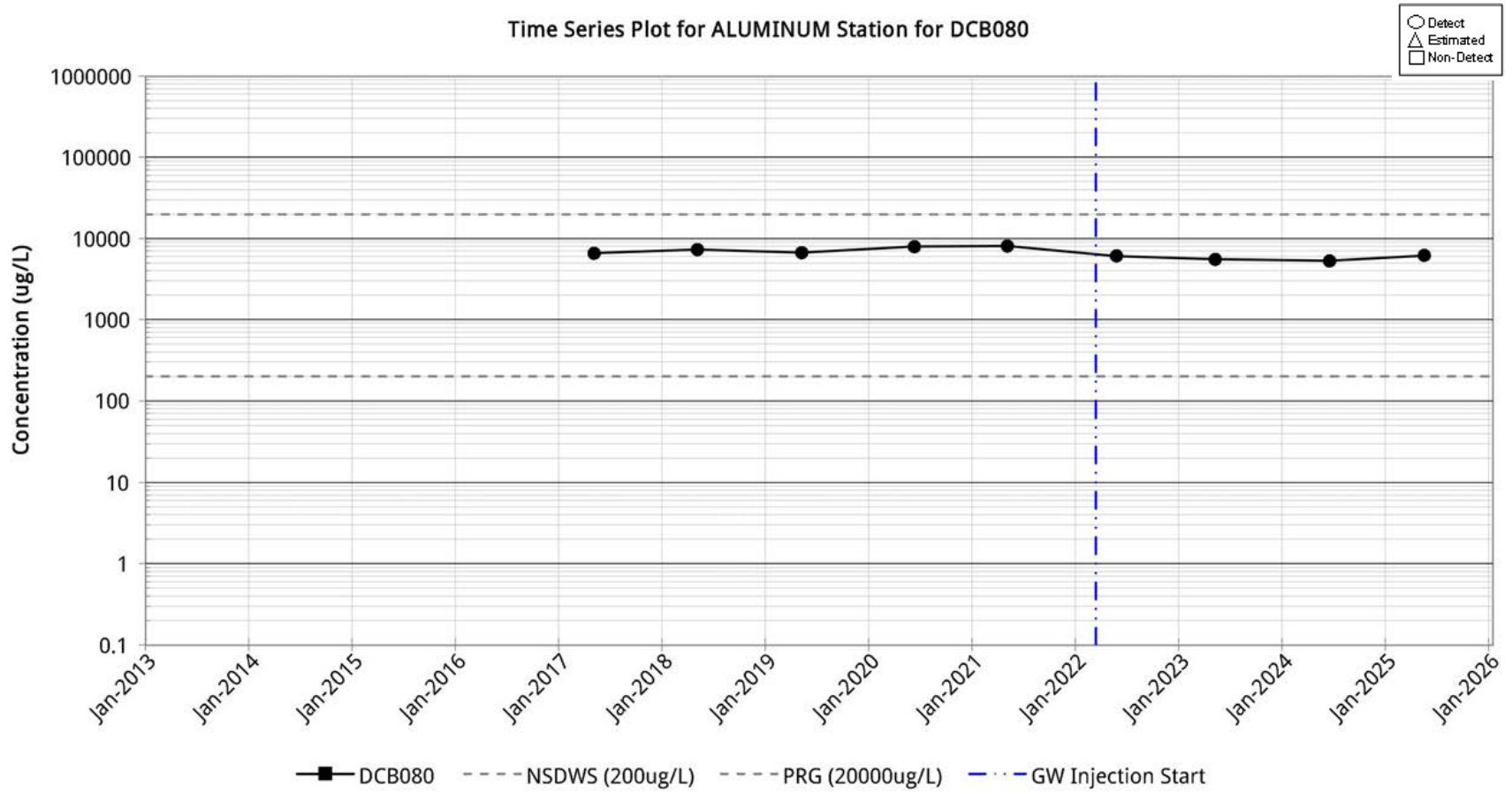

Time Series Plot for ALUMINUM Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

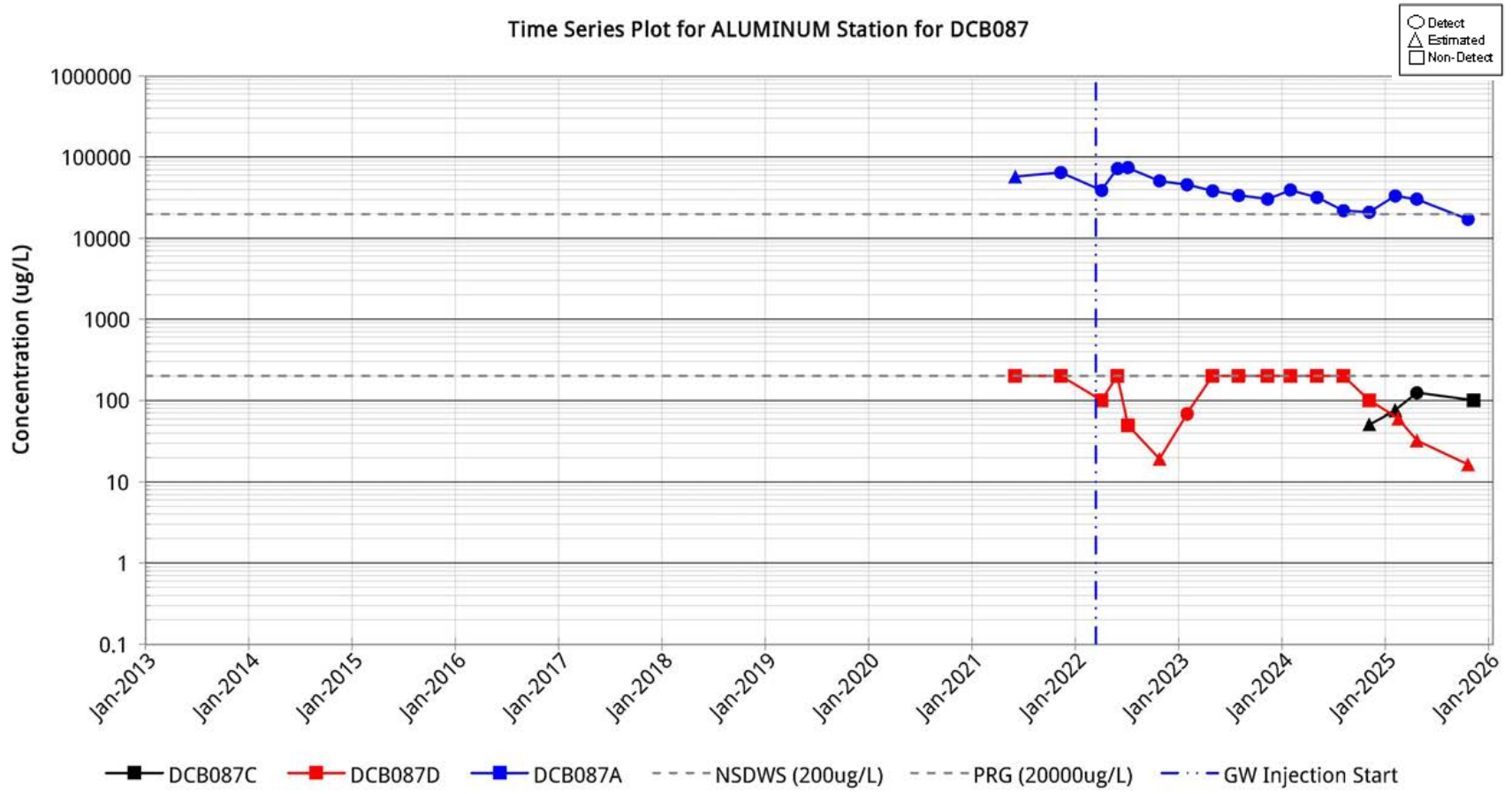

Time Series Plot for ALUMINUM Station for DCB077
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

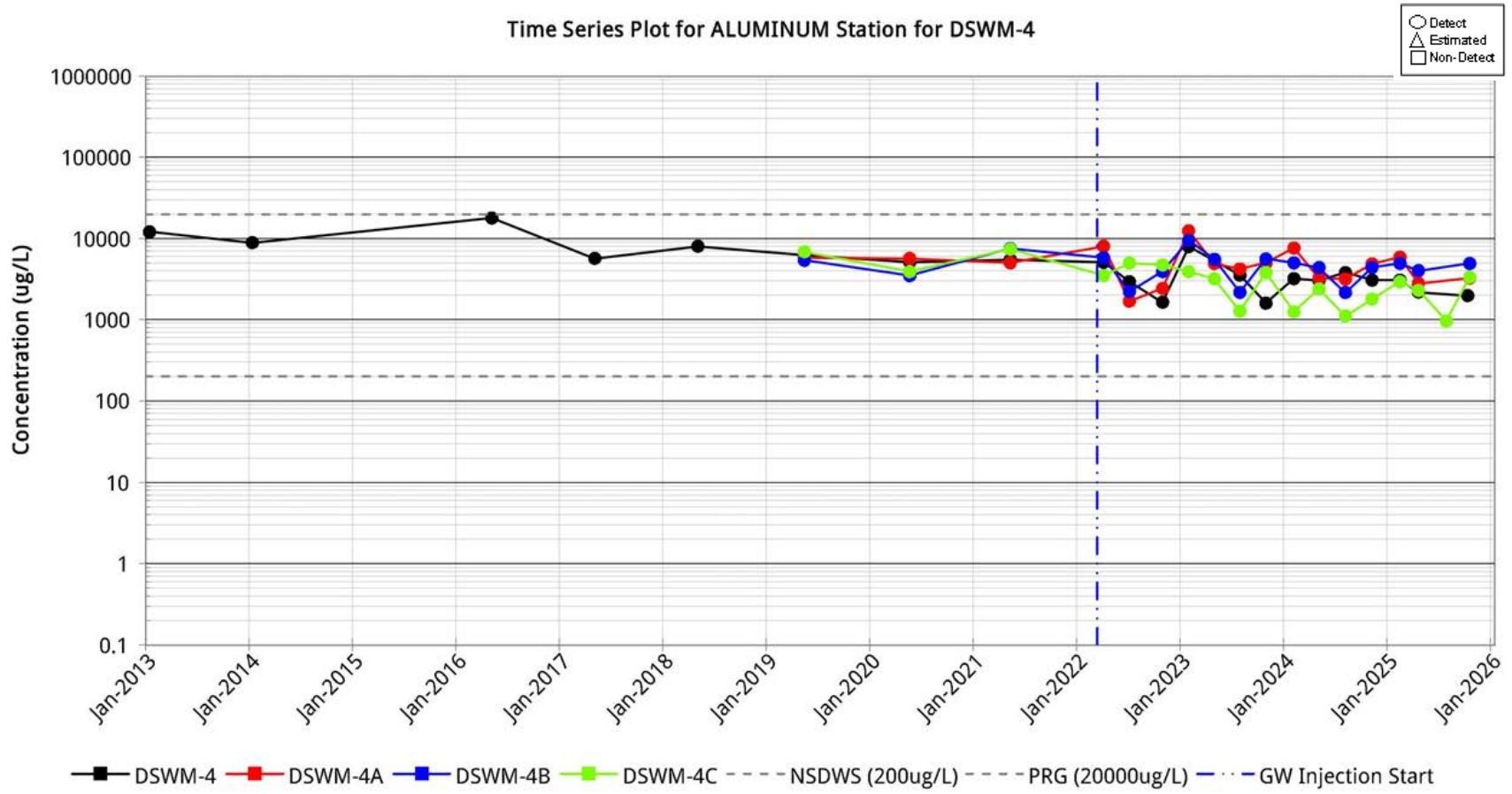


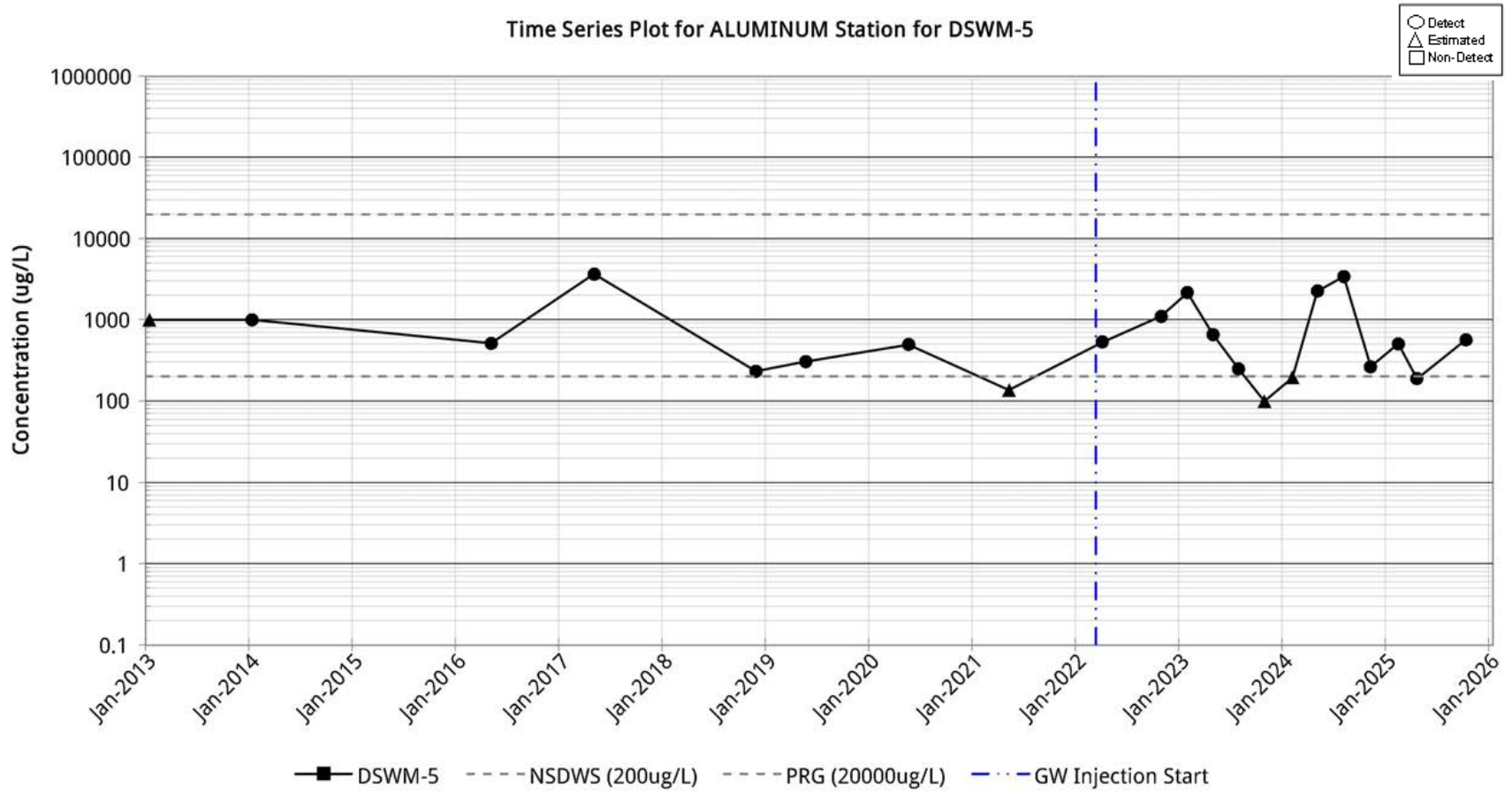
Note: Well DCB078 is a replacement well for DCB 47C

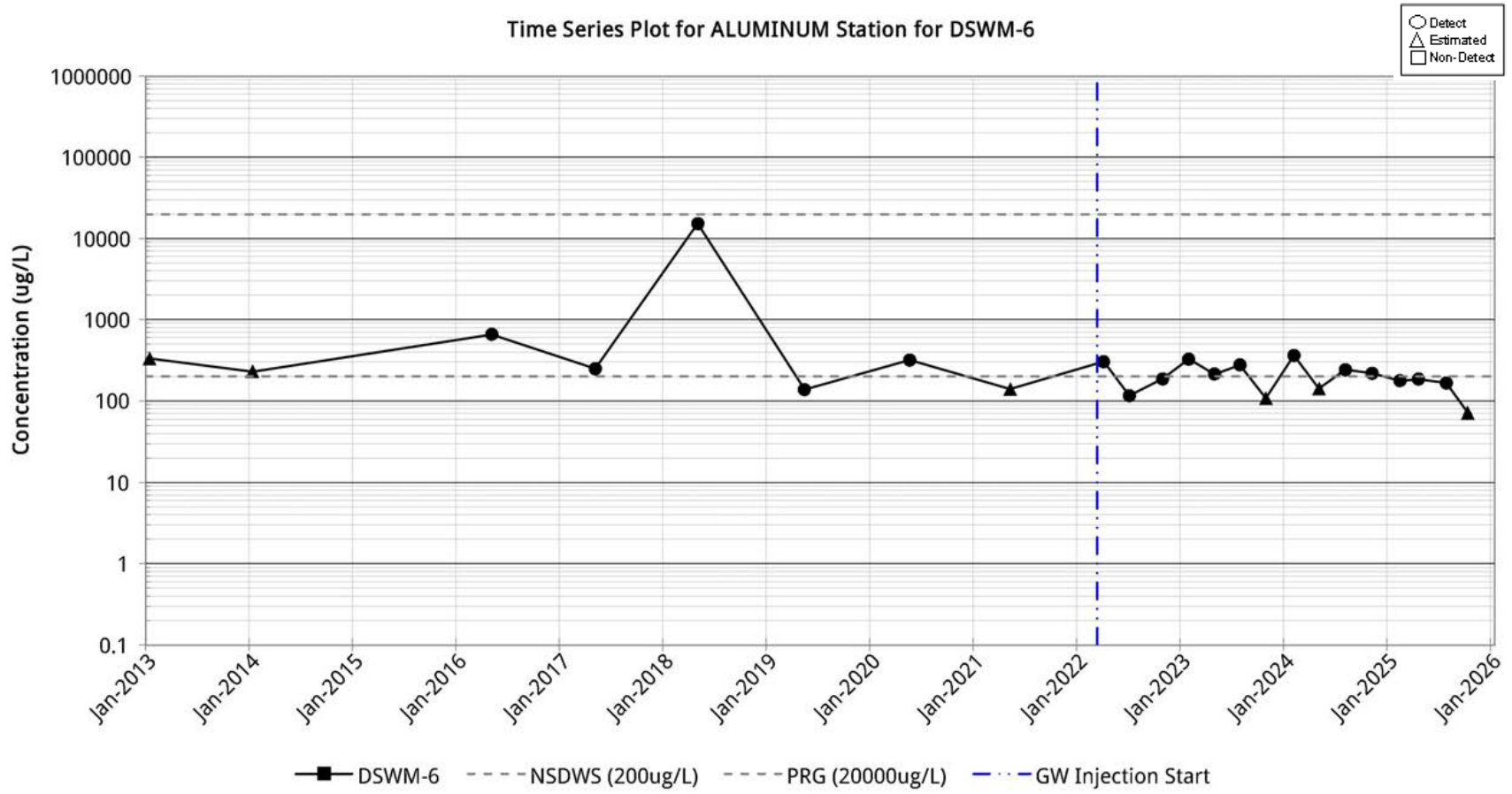

Time Series Plot for ALUMINUM Station for DCB079
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

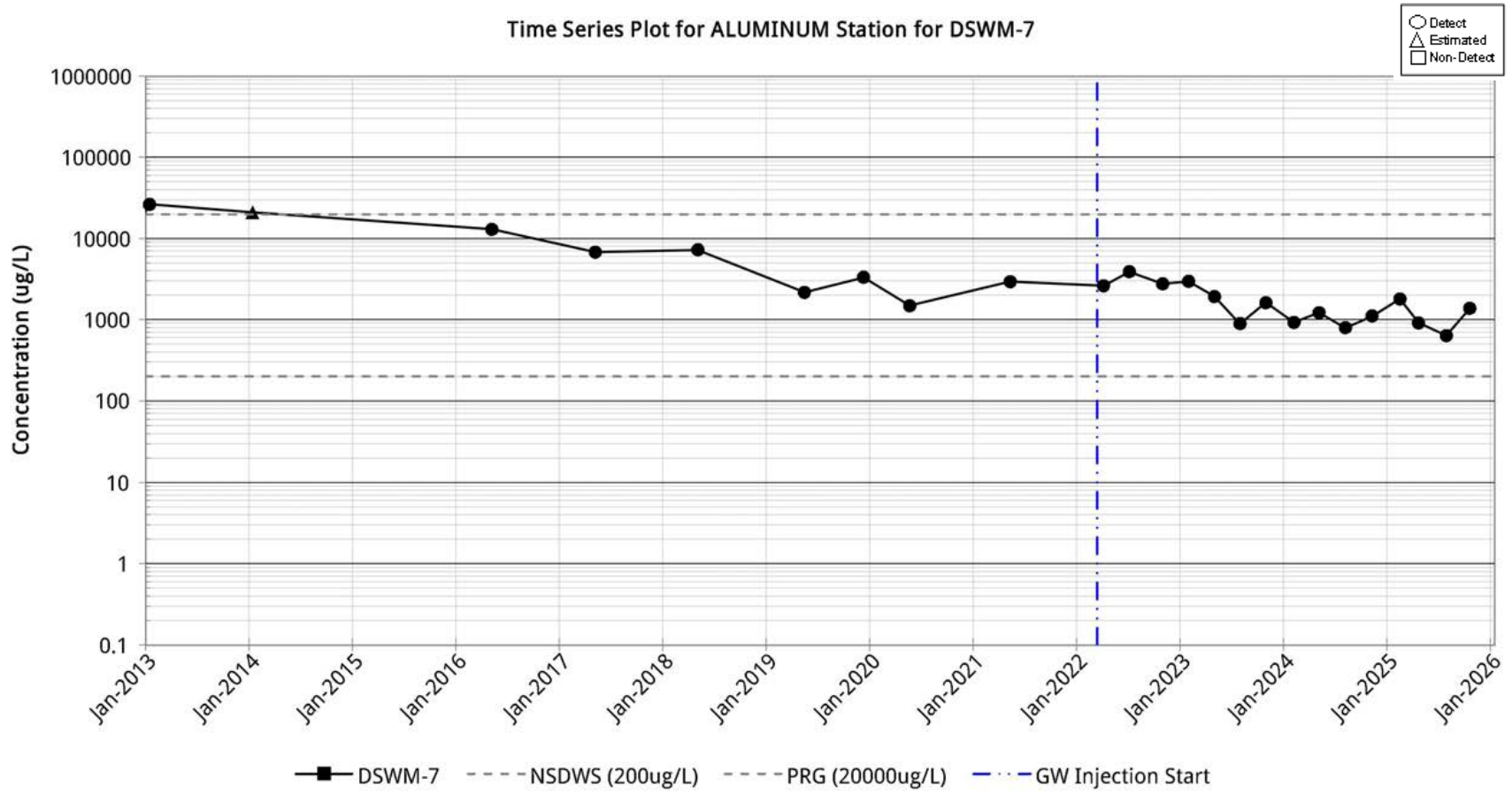

Time Series Plot for ALUMINUM Station for DCB080
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

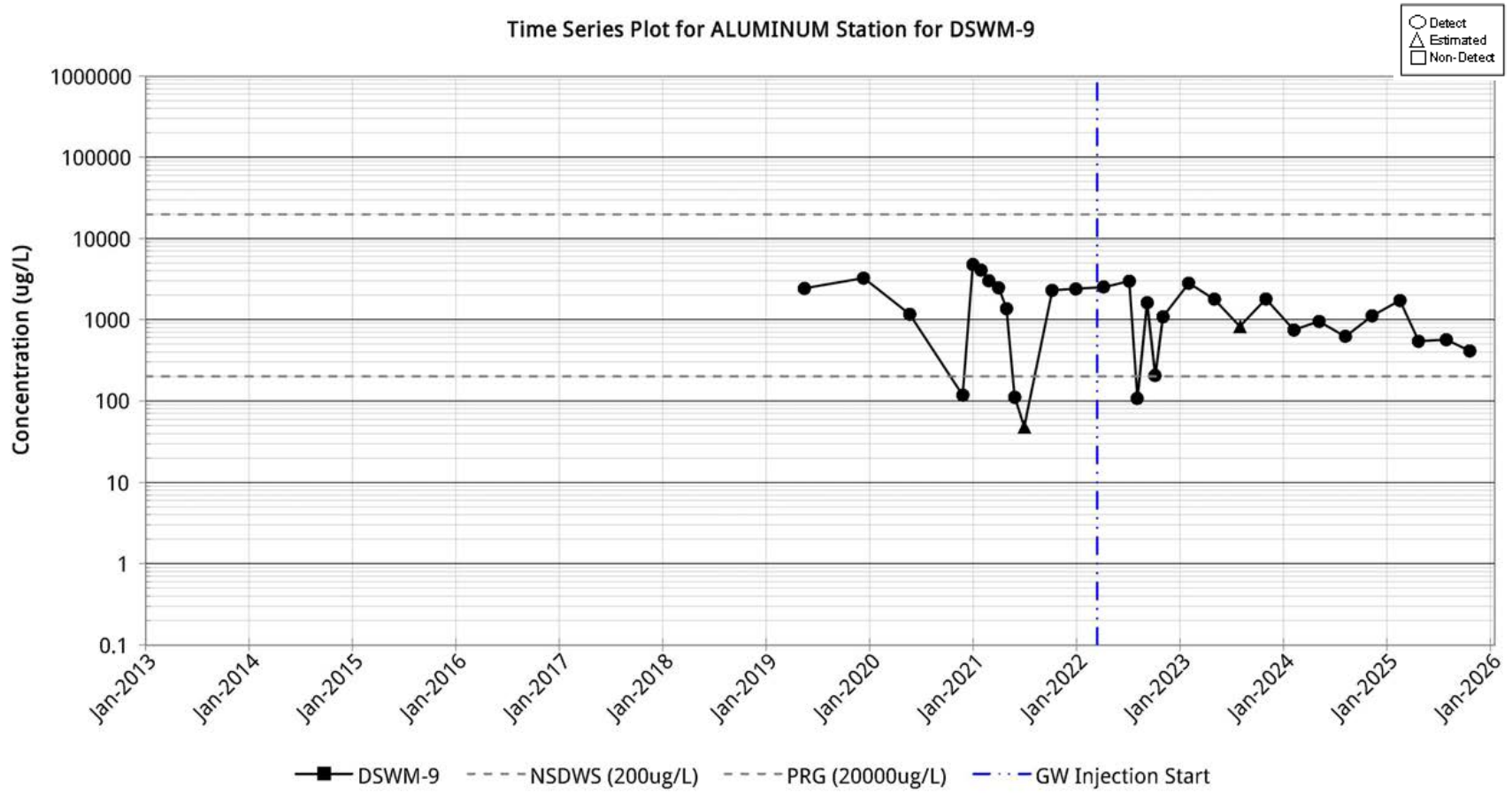

Time Series Plot for ALUMINUM Station for DCB087
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

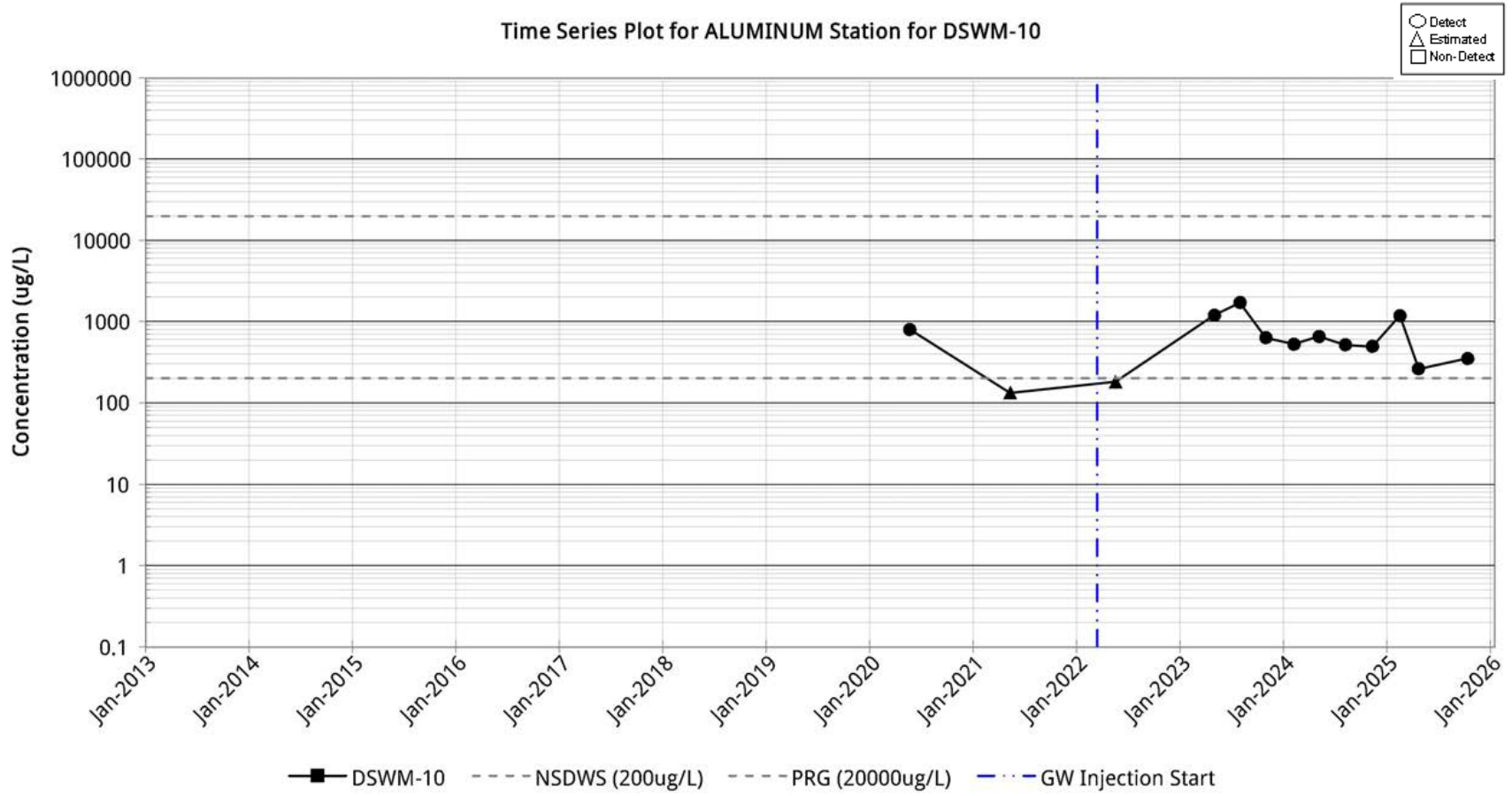

Time Series Plot for ALUMINUM Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

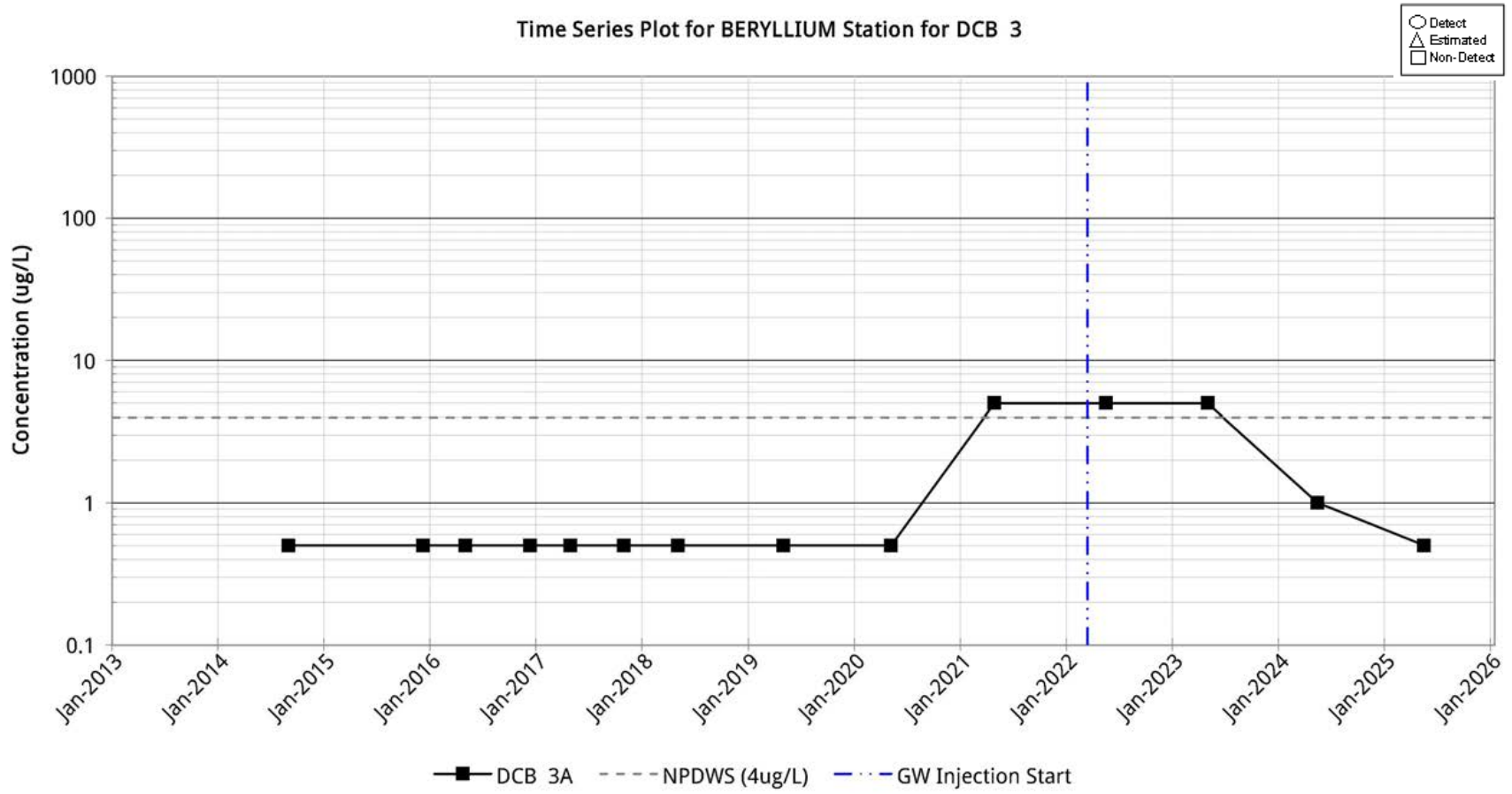

Time Series Plot for ALUMINUM Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

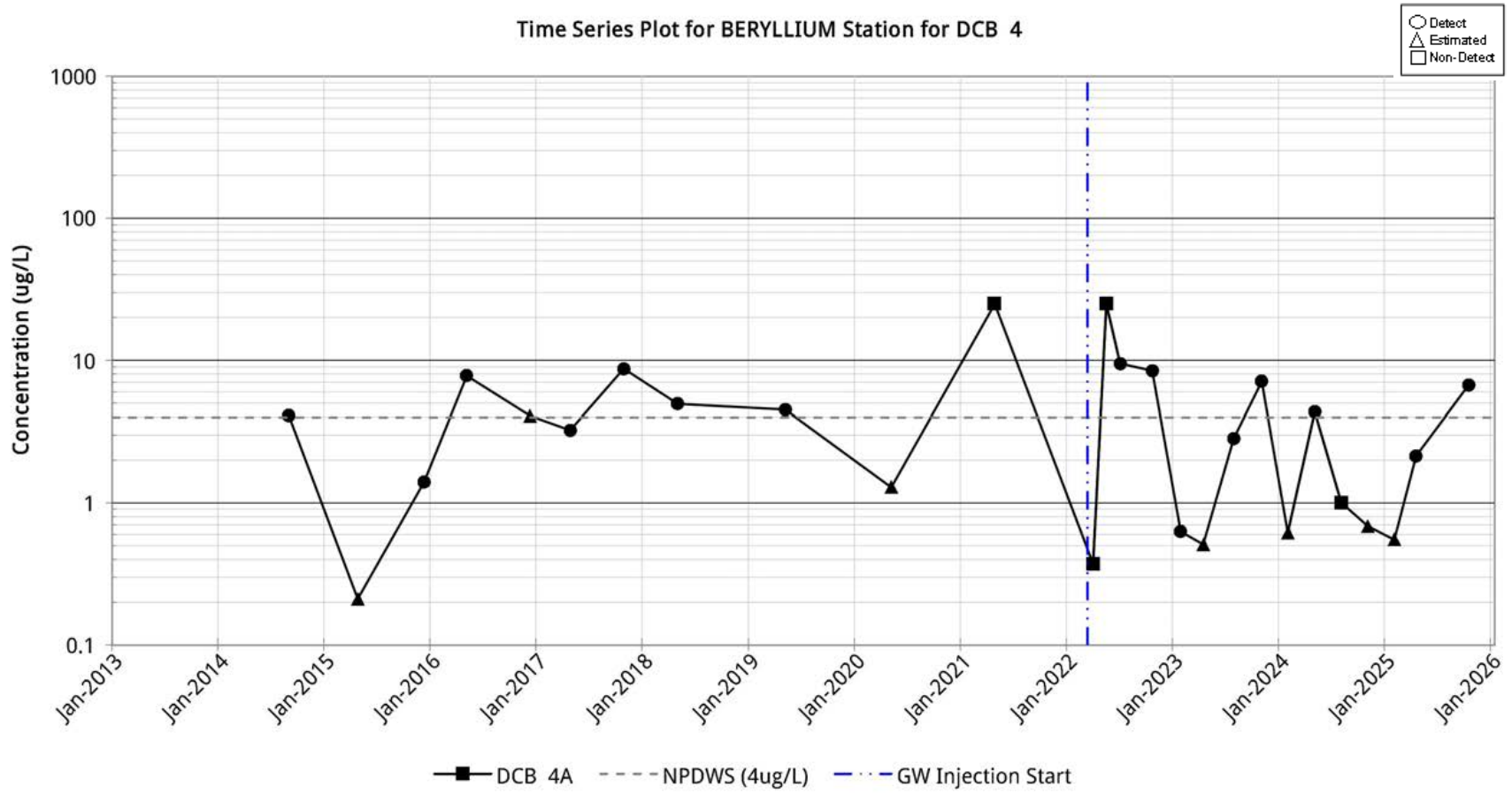

Time Series Plot for ALUMINUM Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

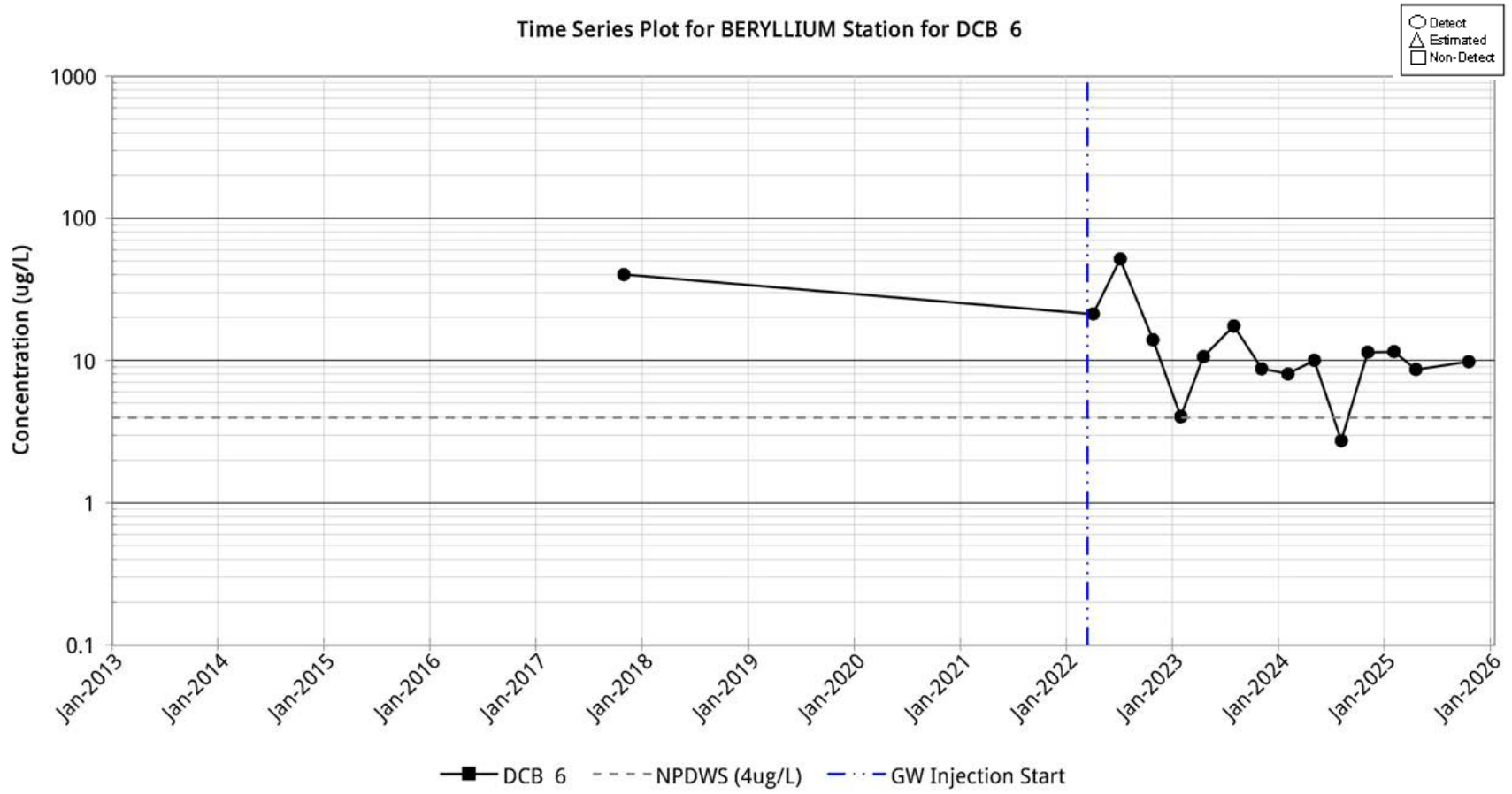

Time Series Plot for ALUMINUM Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

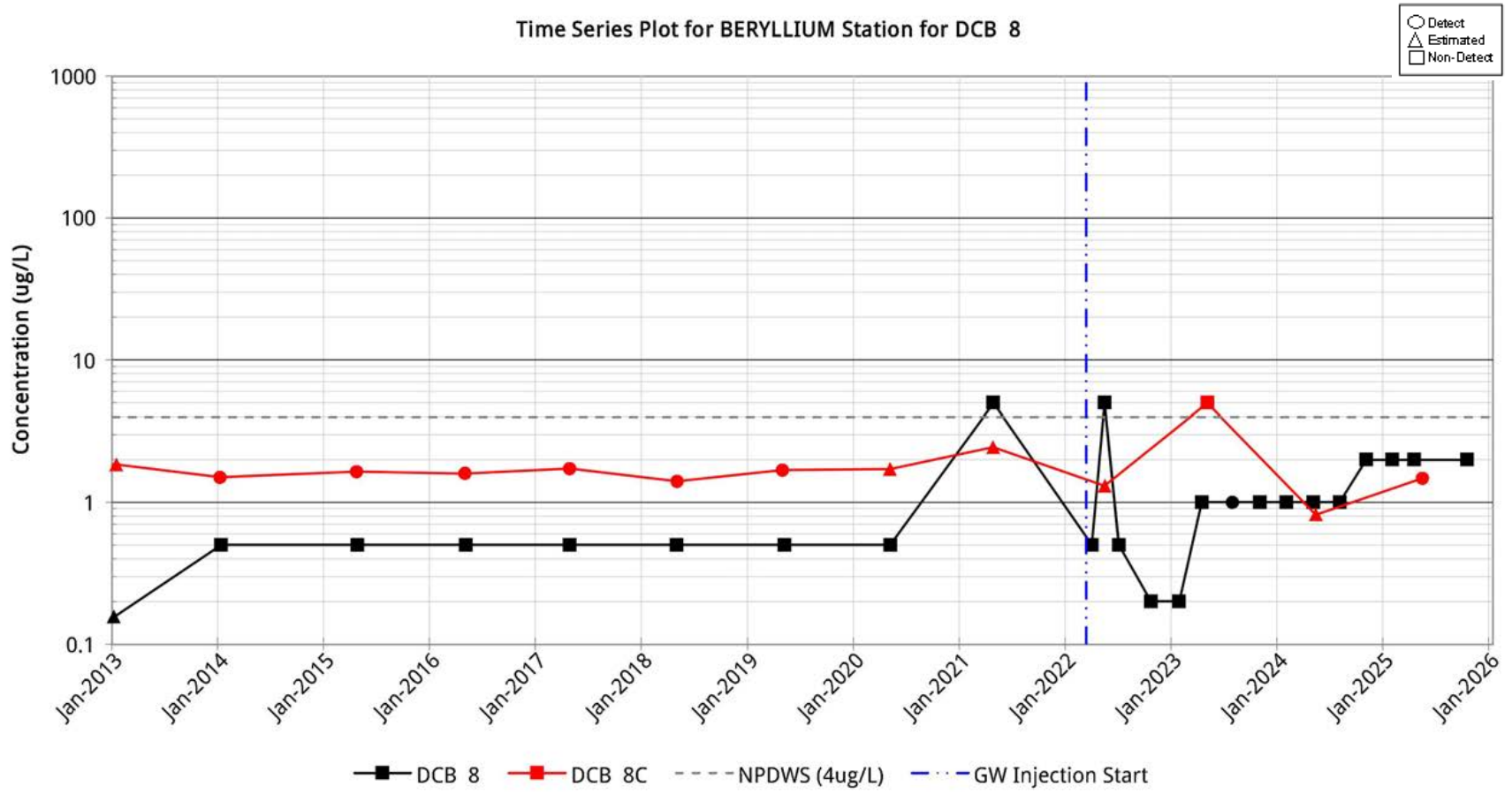

Time Series Plot for ALUMINUM Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

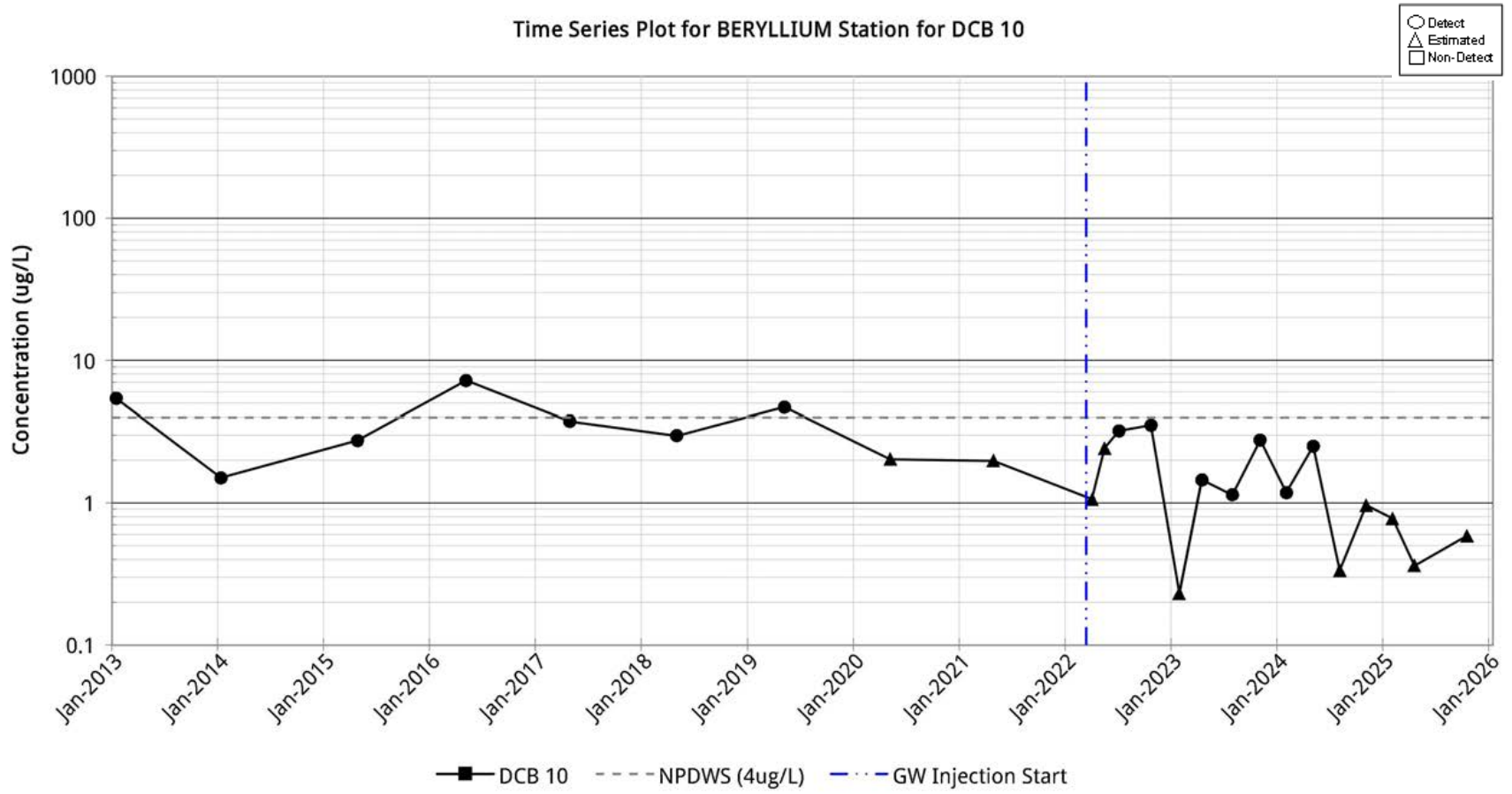

Time Series Plot for ALUMINUM Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
NSDWS (200ug/L)
PRG (20000ug/L)
GW Injection Start

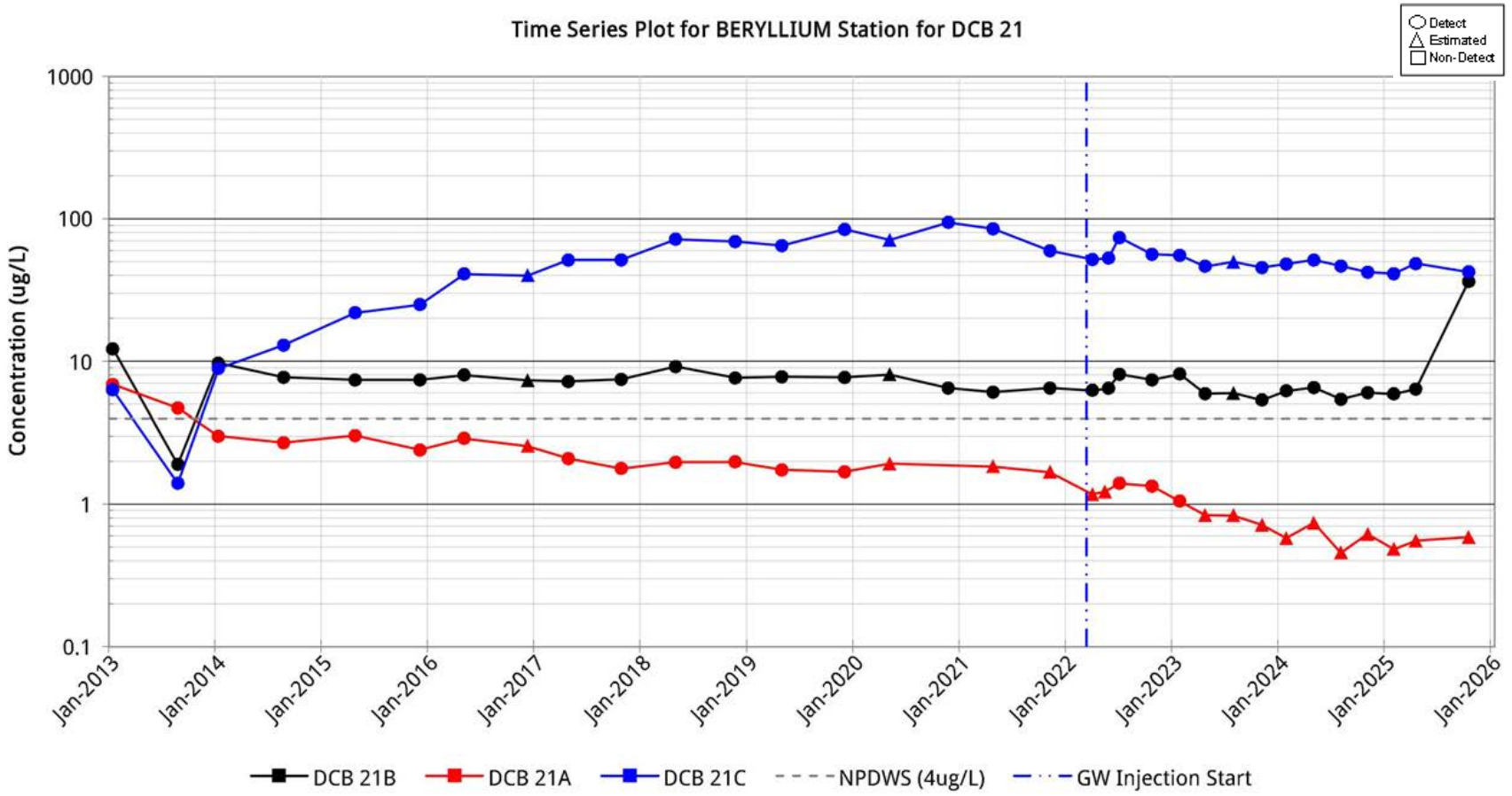

Time Series Plot for BERYLLIUM Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
NPDWS (4ug/L)
GW Injection Start

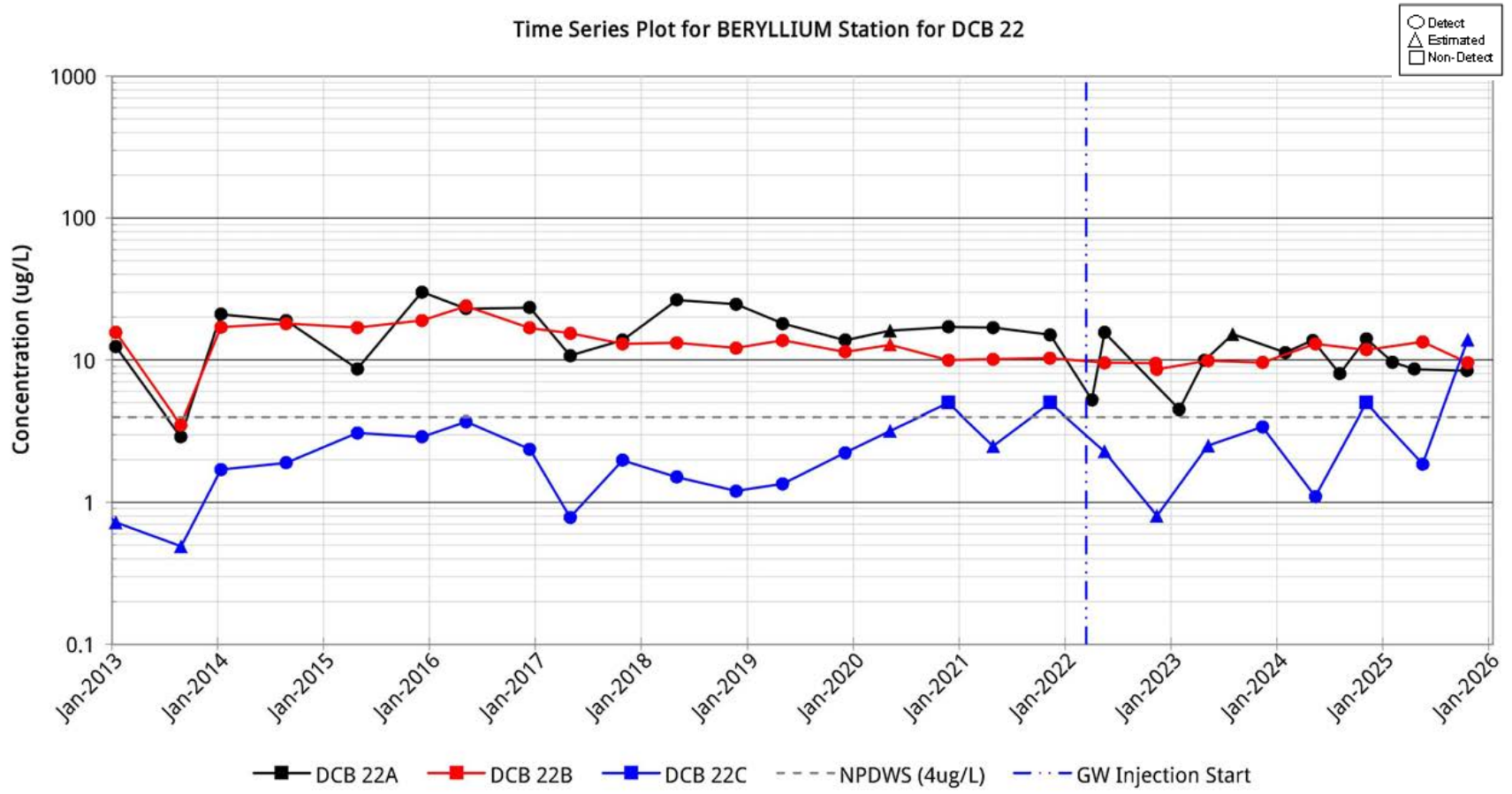

Time Series Plot for BERYLLIUM Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
NPDWS (4ug/L)
GW Injection Start

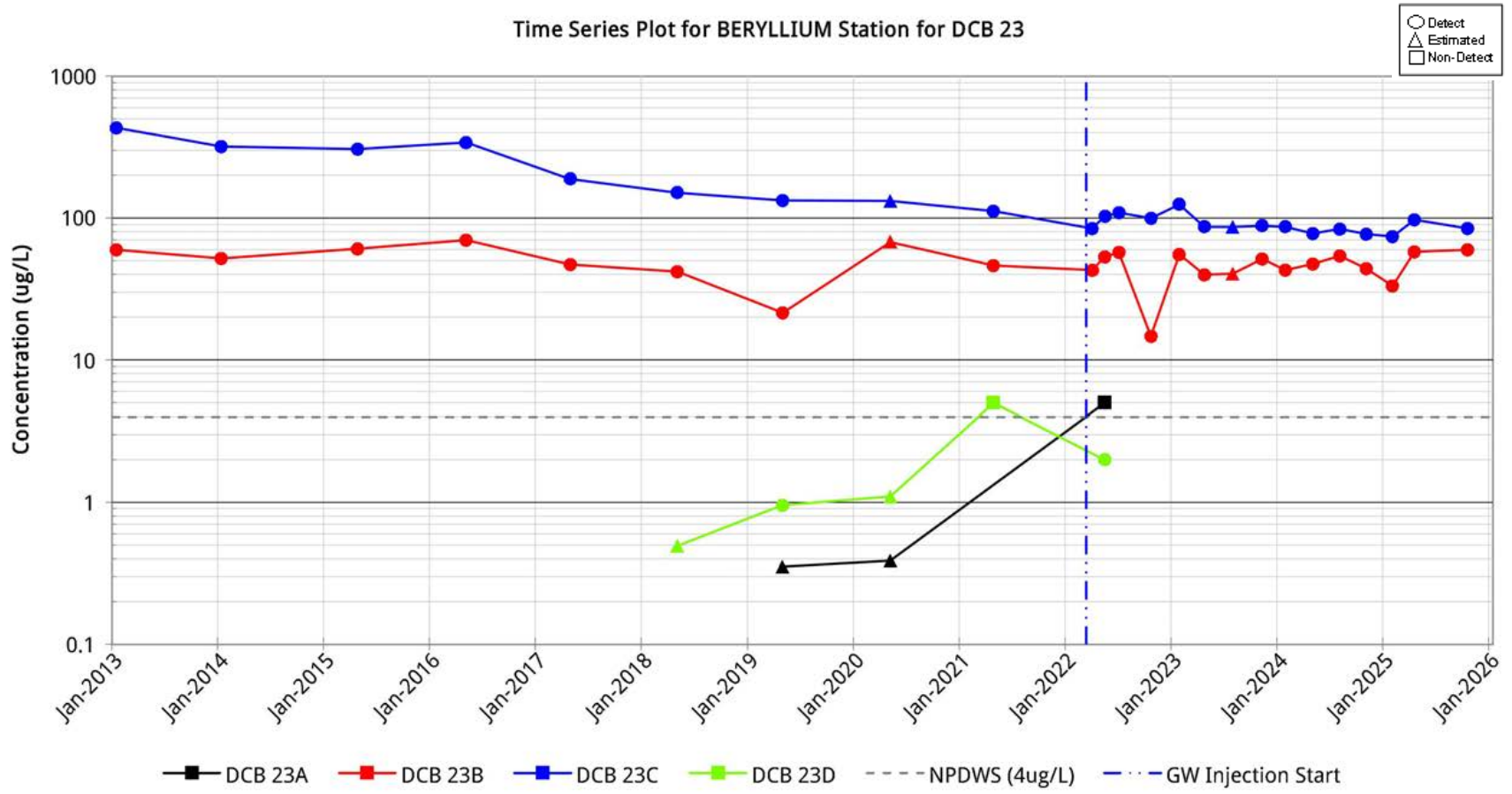

Time Series Plot for BERYLLIUM Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
NPDWS (4ug/L)
GW Injection Start

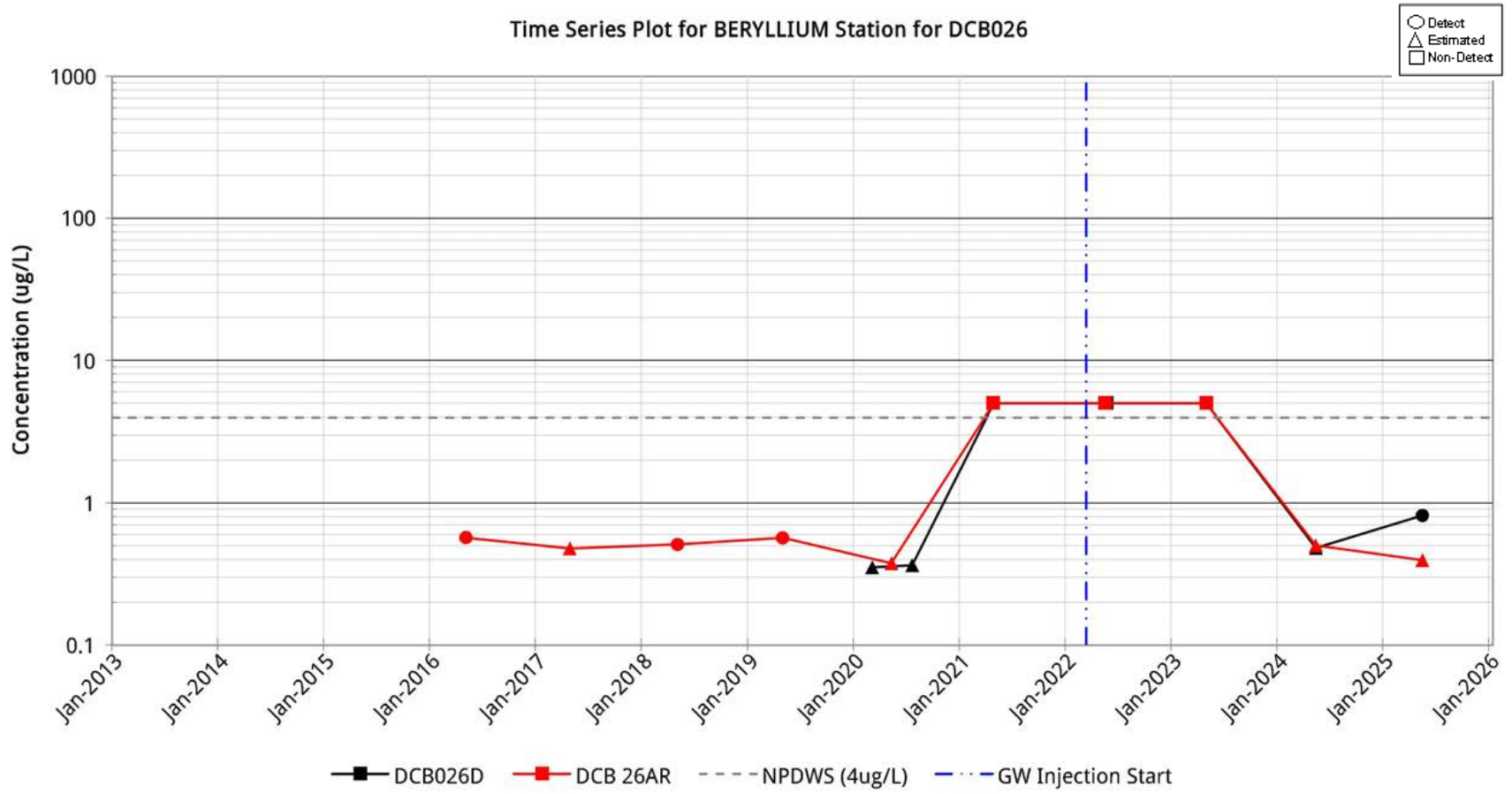

Time Series Plot for BERYLLIUM Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
NPDWS (4ug/L)
GW Injection Start

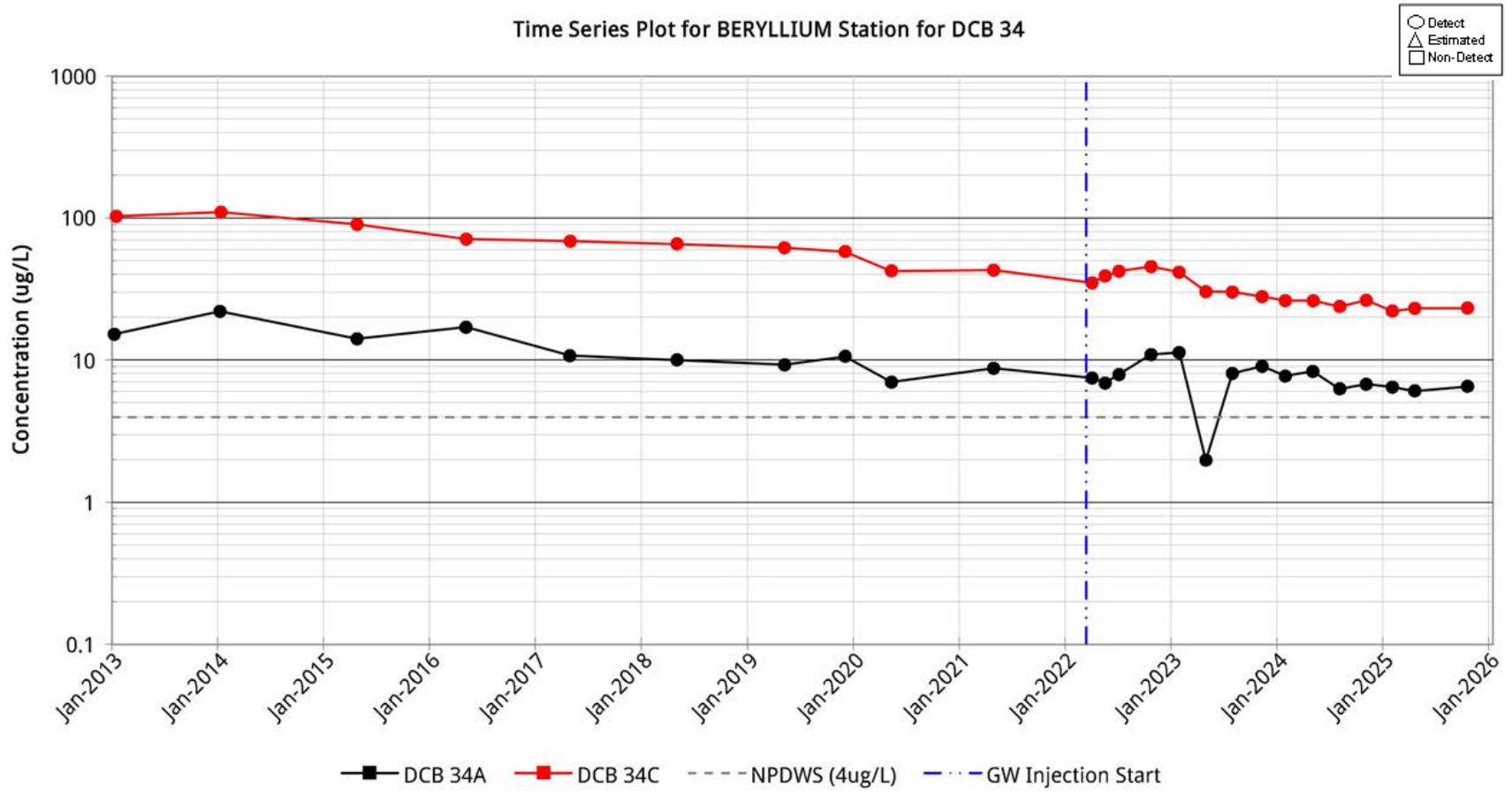

Time Series Plot for BERYLLIUM Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
NPDWS (4ug/L)
GW Injection Start

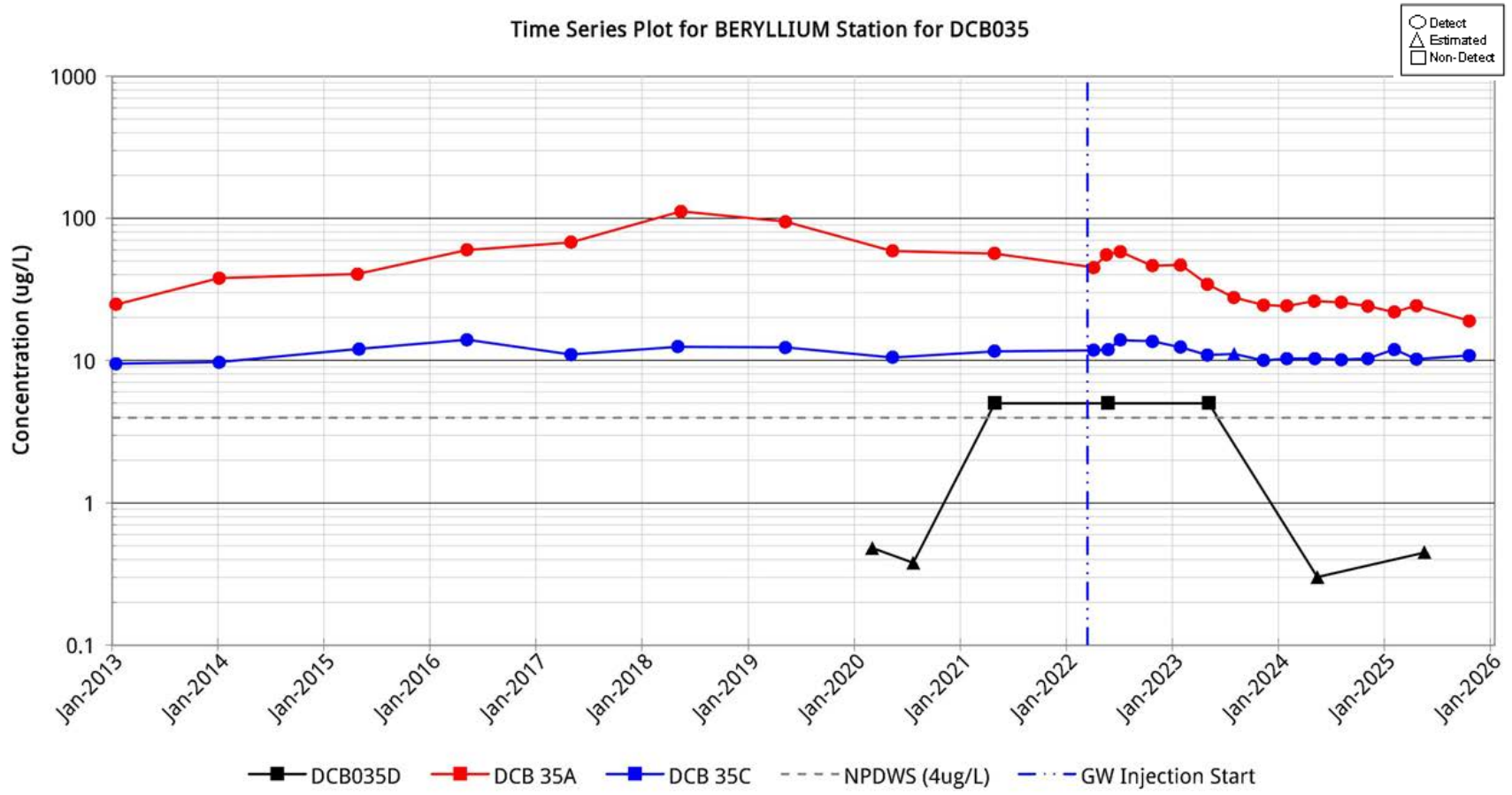

Time Series Plot for BERYLLIUM Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
NPDWS (4ug/L)
GW Injection Start

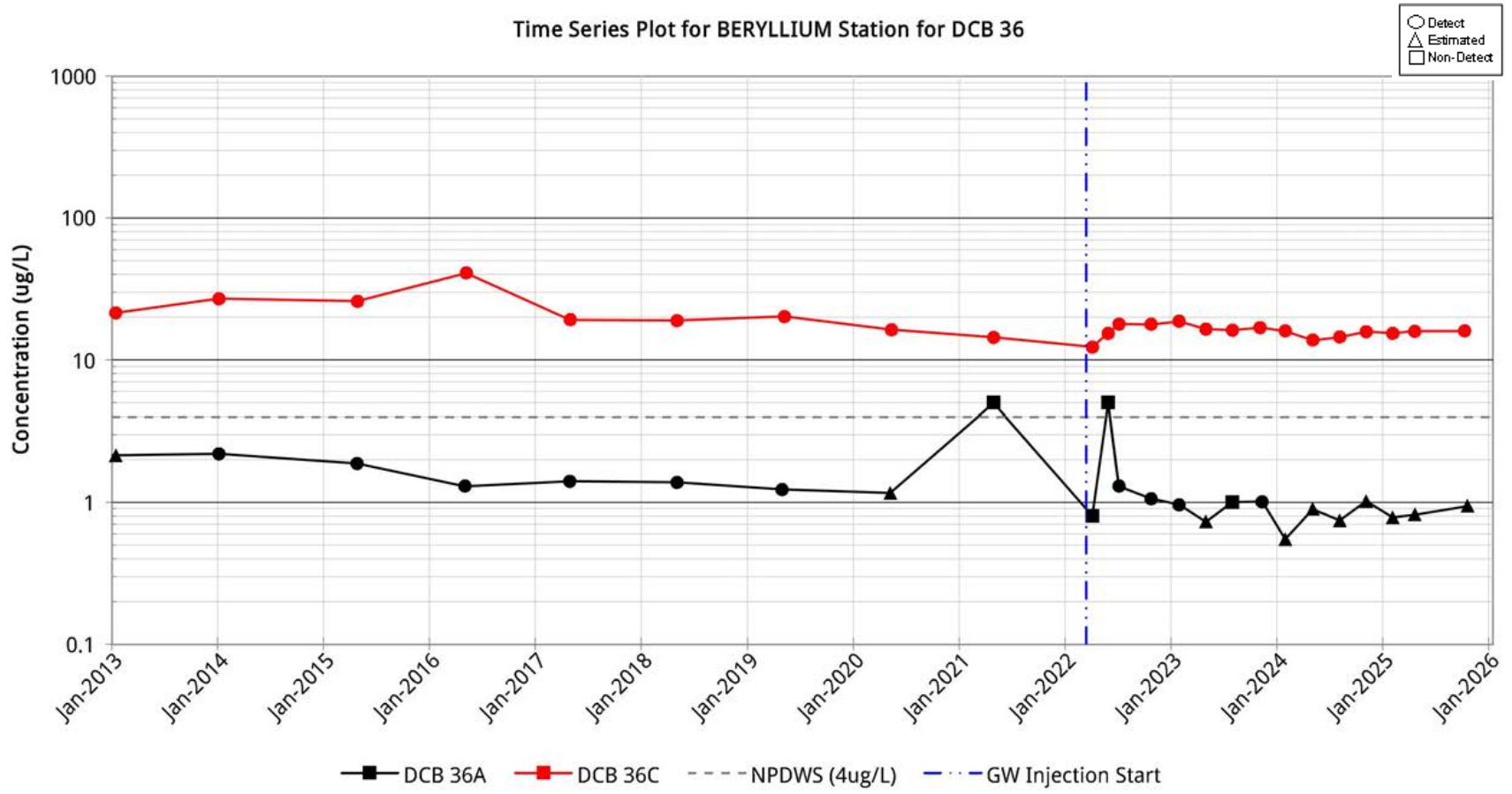

Time Series Plot for BERYLLIUM Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
NPDWS (4ug/L)
GW Injection Start

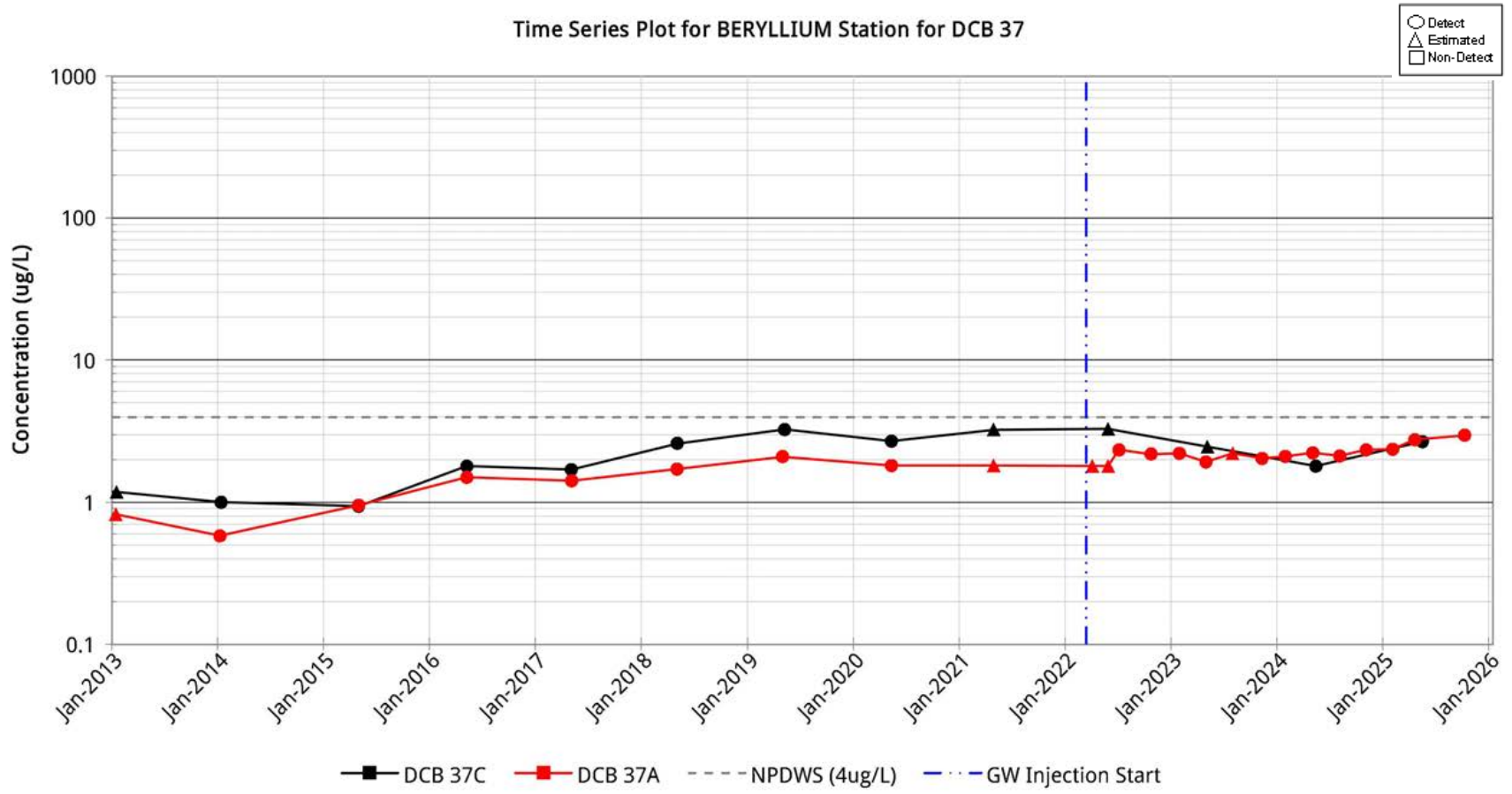

Time Series Plot for BERYLLIUM Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
NPDWS (4ug/L)
GW Injection Start

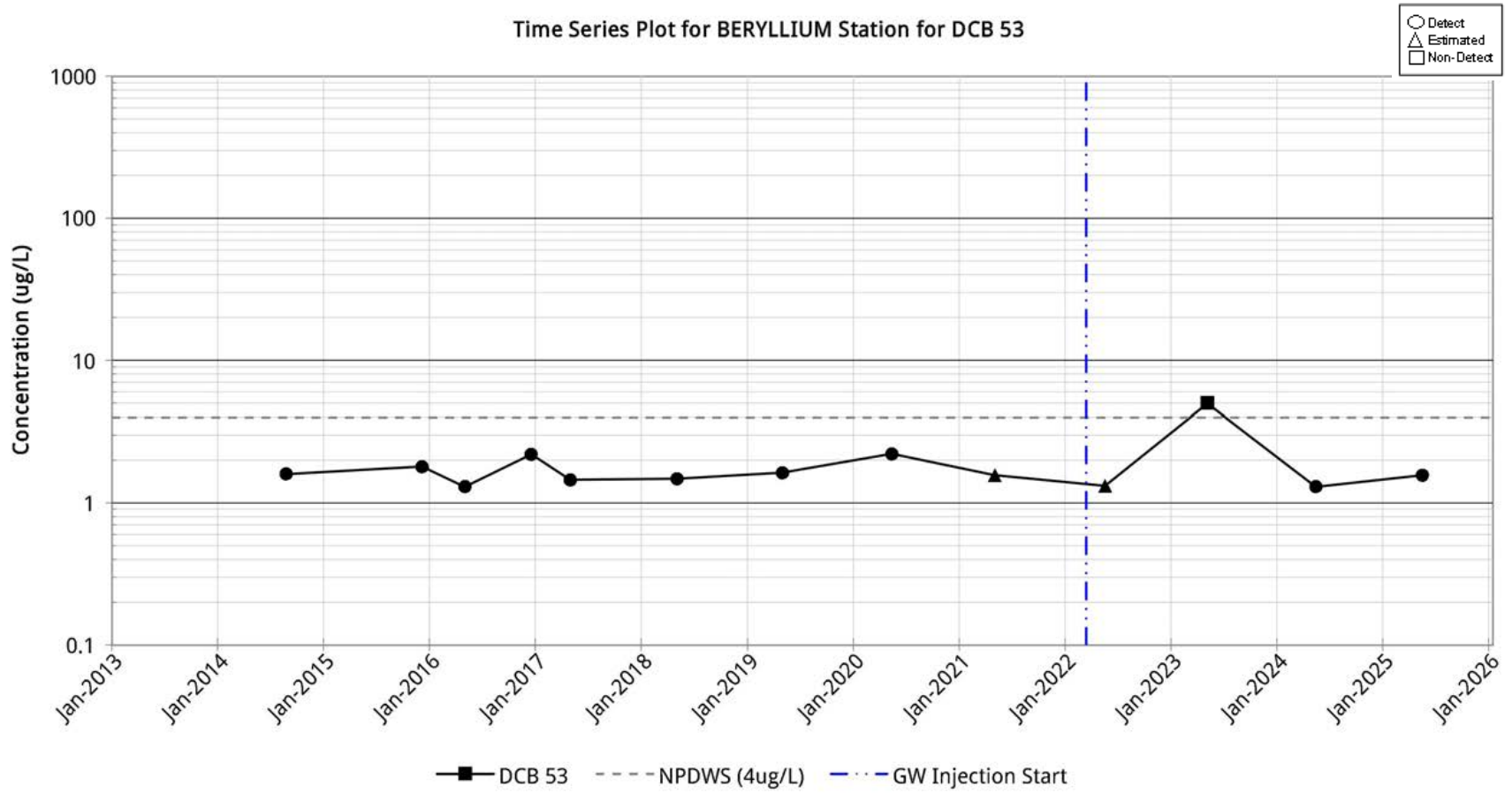

Time Series Plot for BERYLLIUM Station for DCB026
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
NPDWS (4ug/L)
GW Injection Start

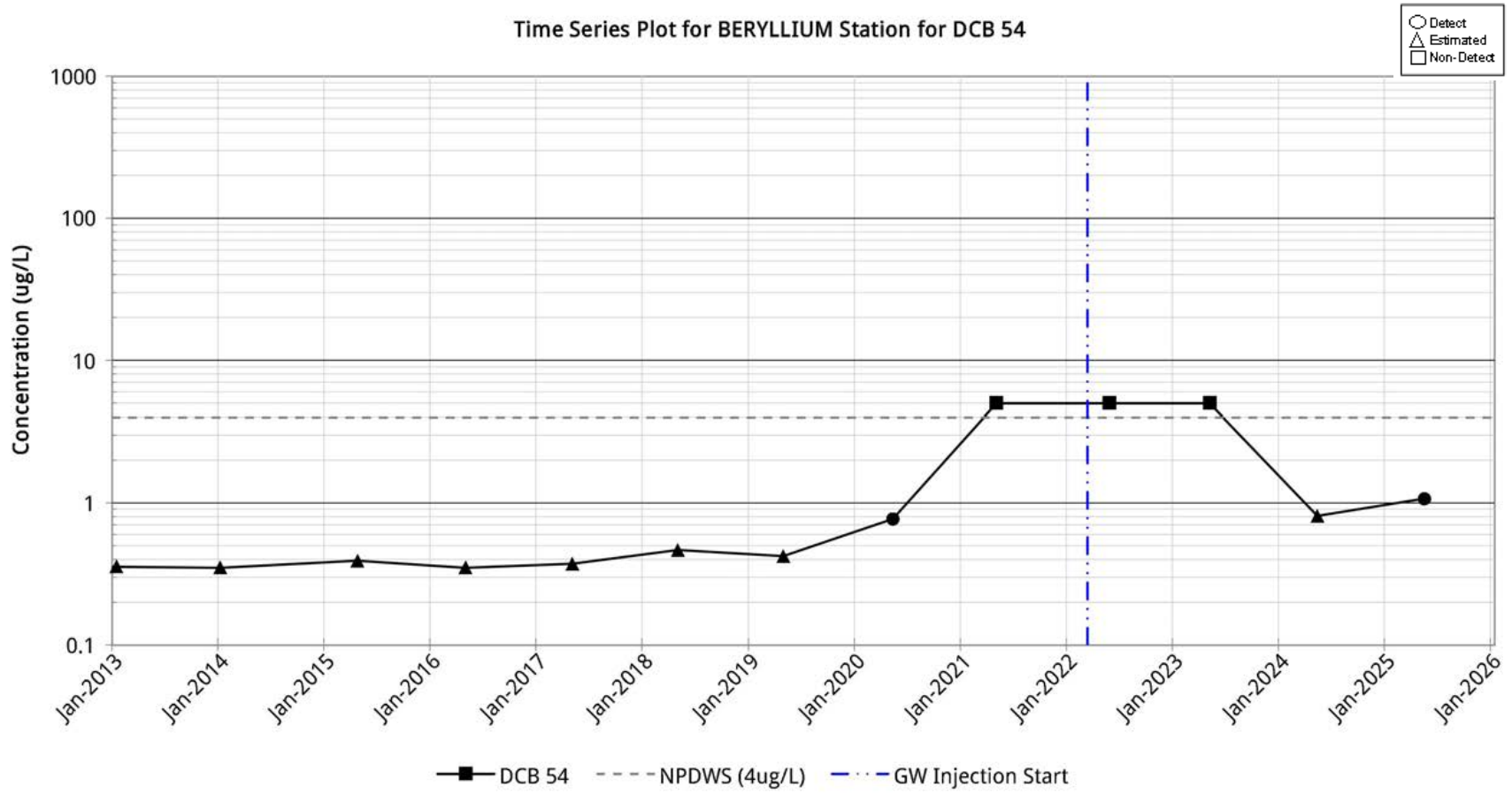

Time Series Plot for BERYLLIUM Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
NPDWS (4ug/L)
GW Injection Start

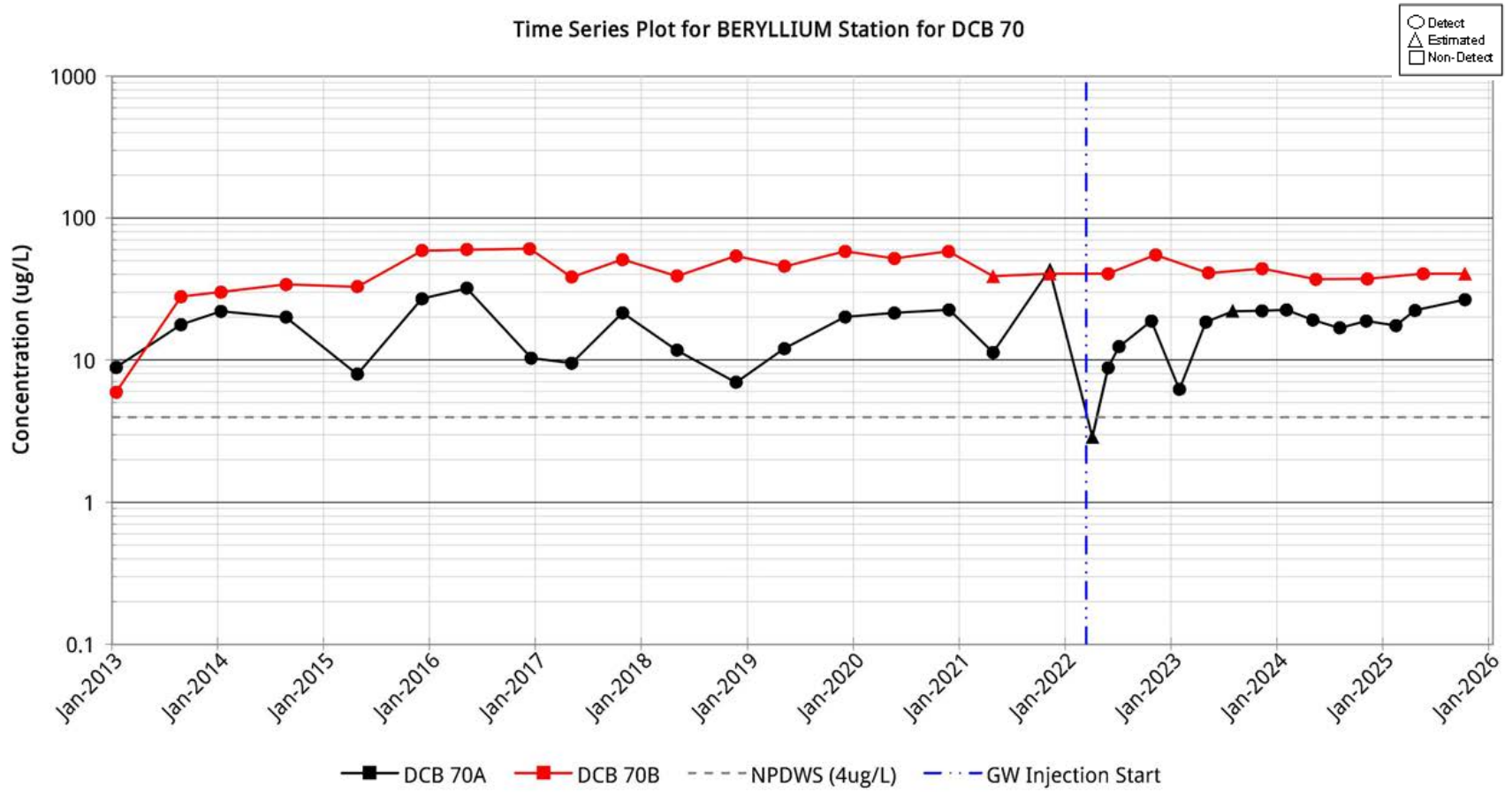

Time Series Plot for BERYLLIUM Station for DCB035
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
NPDWS (4ug/L)
GW Injection Start

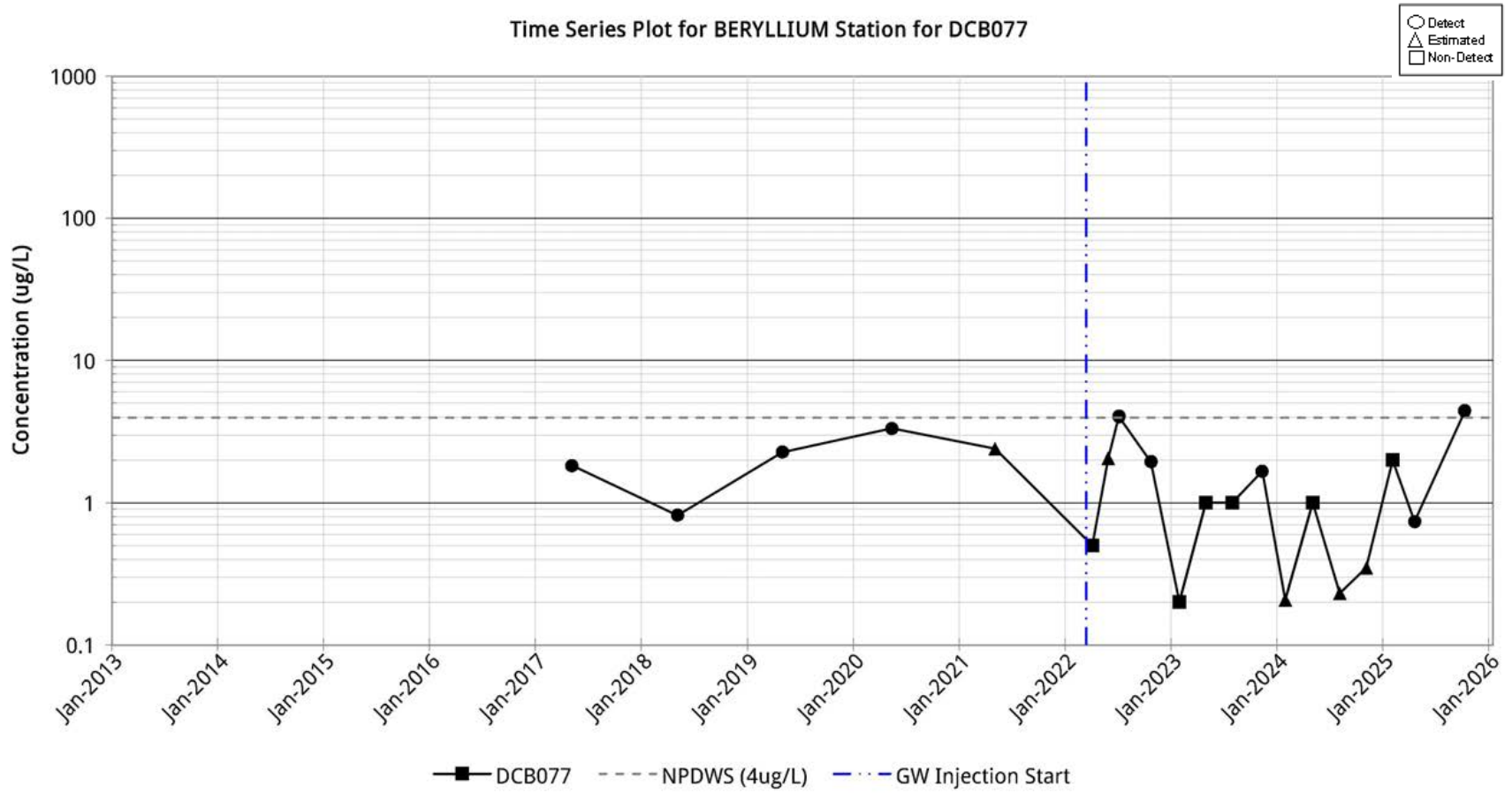

Time Series Plot for BERYLLIUM Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
NPDWS (4ug/L)
GW Injection Start

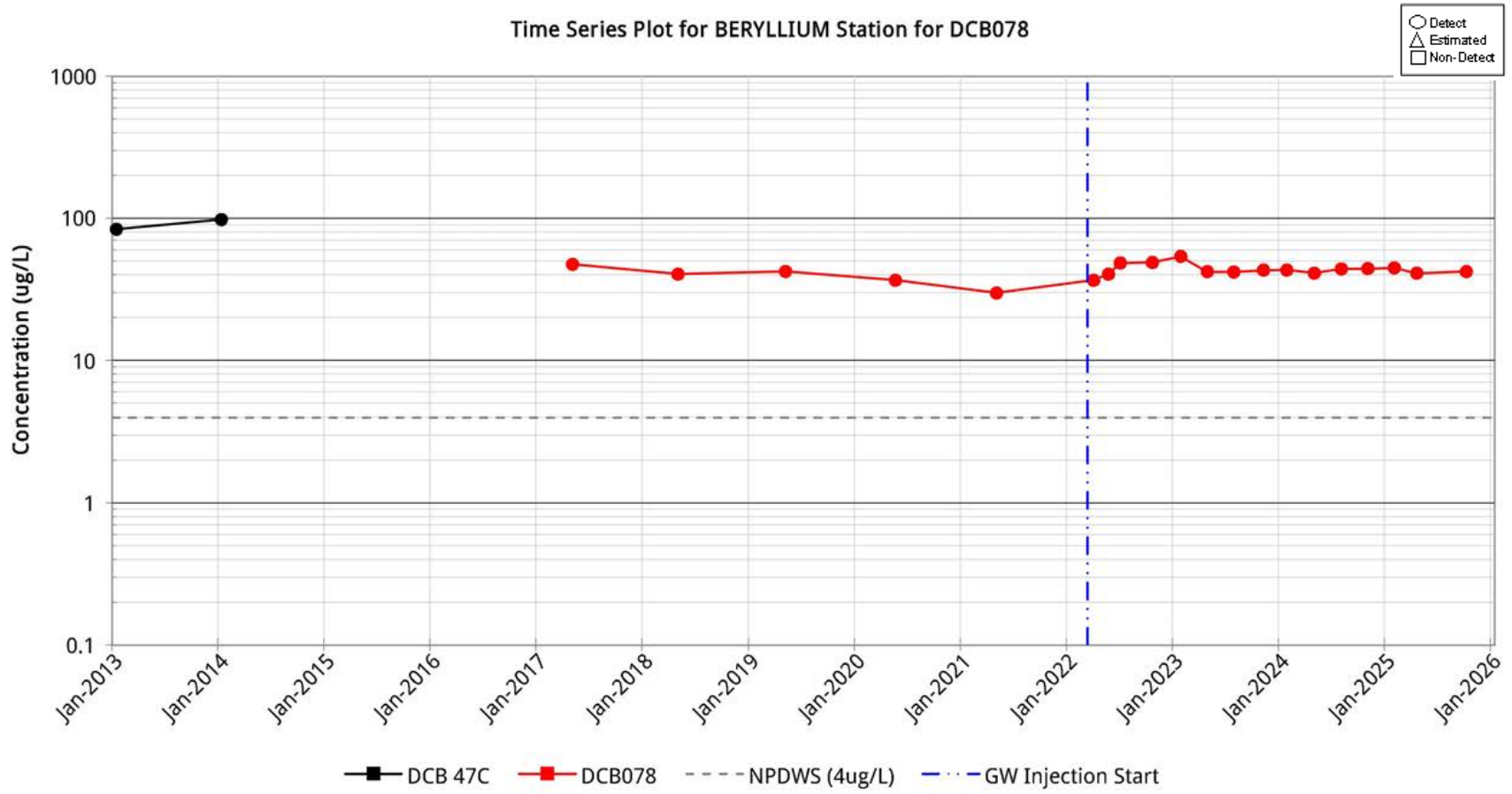

Time Series Plot for BERYLLIUM Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
NPDWS (4ug/L)
GW Injection Start


Time Series Plot for BERYLLIUM Station for DCB 53
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
NPDWS (4ug/L)
GW Injection Start

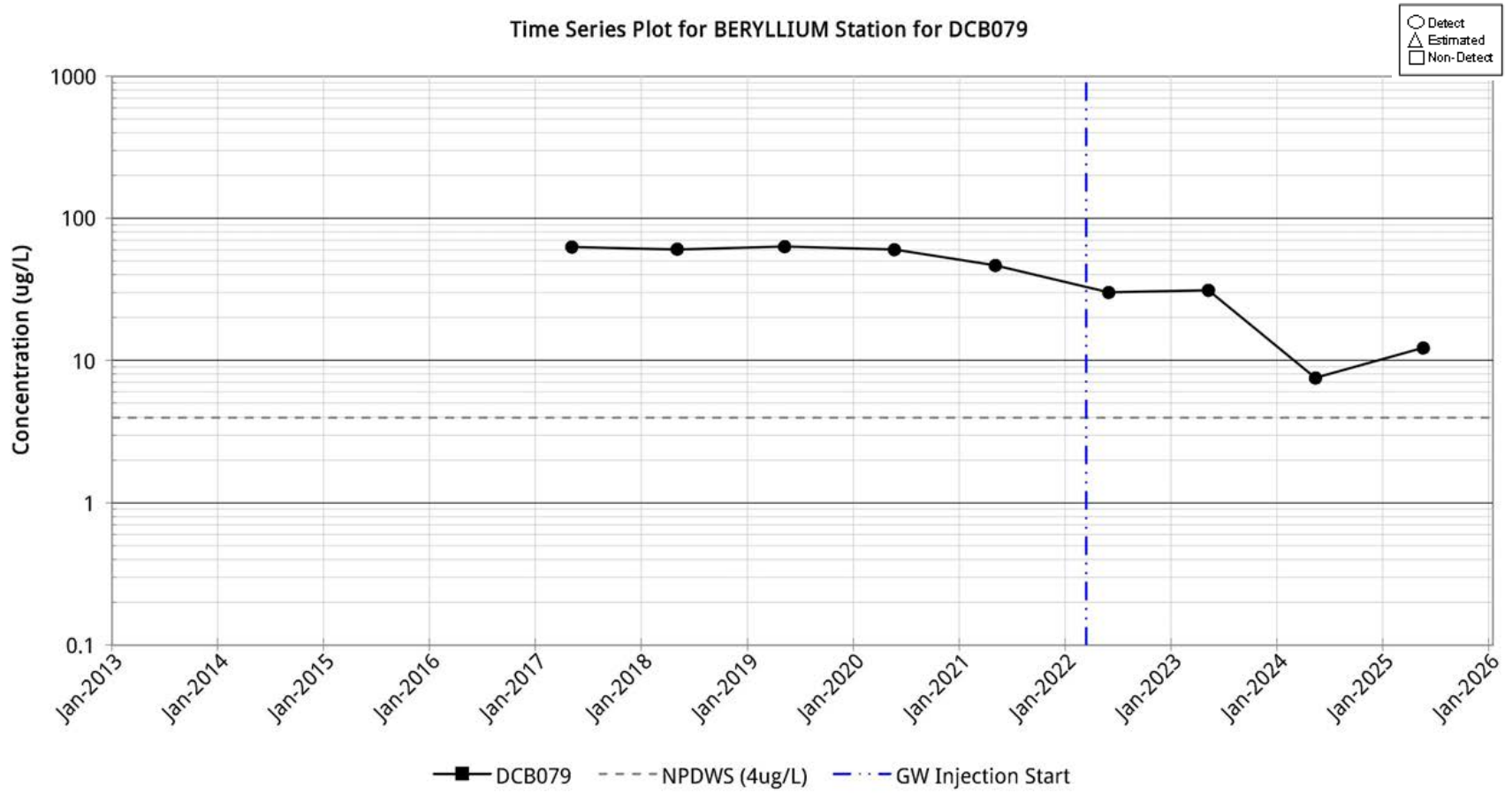

Time Series Plot for BERYLLIUM Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
NPDWS (4ug/L)
GW Injection Start

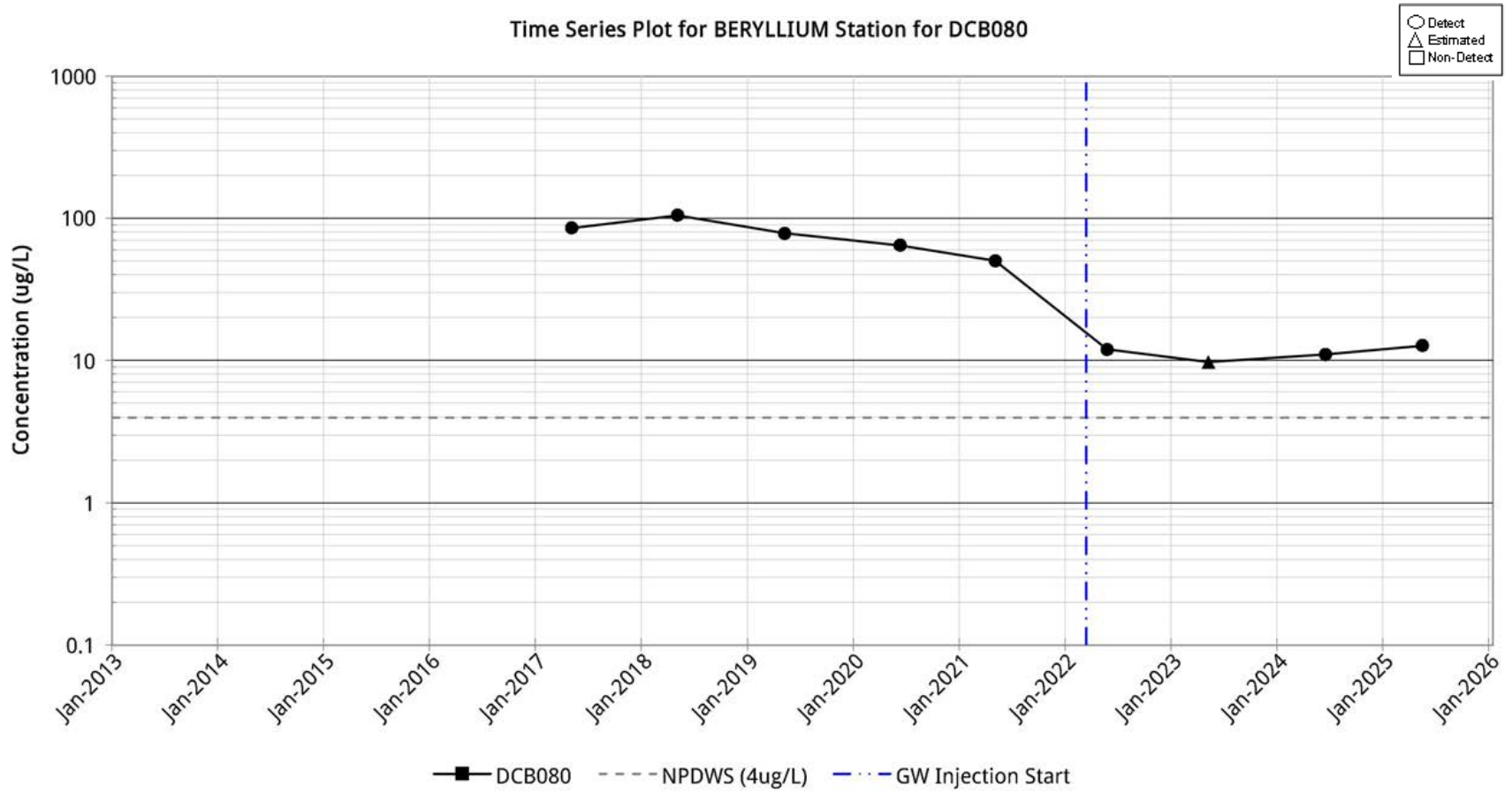

Time Series Plot for BERYLLIUM Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
NPDWS (4ug/L)
GW Injection Start

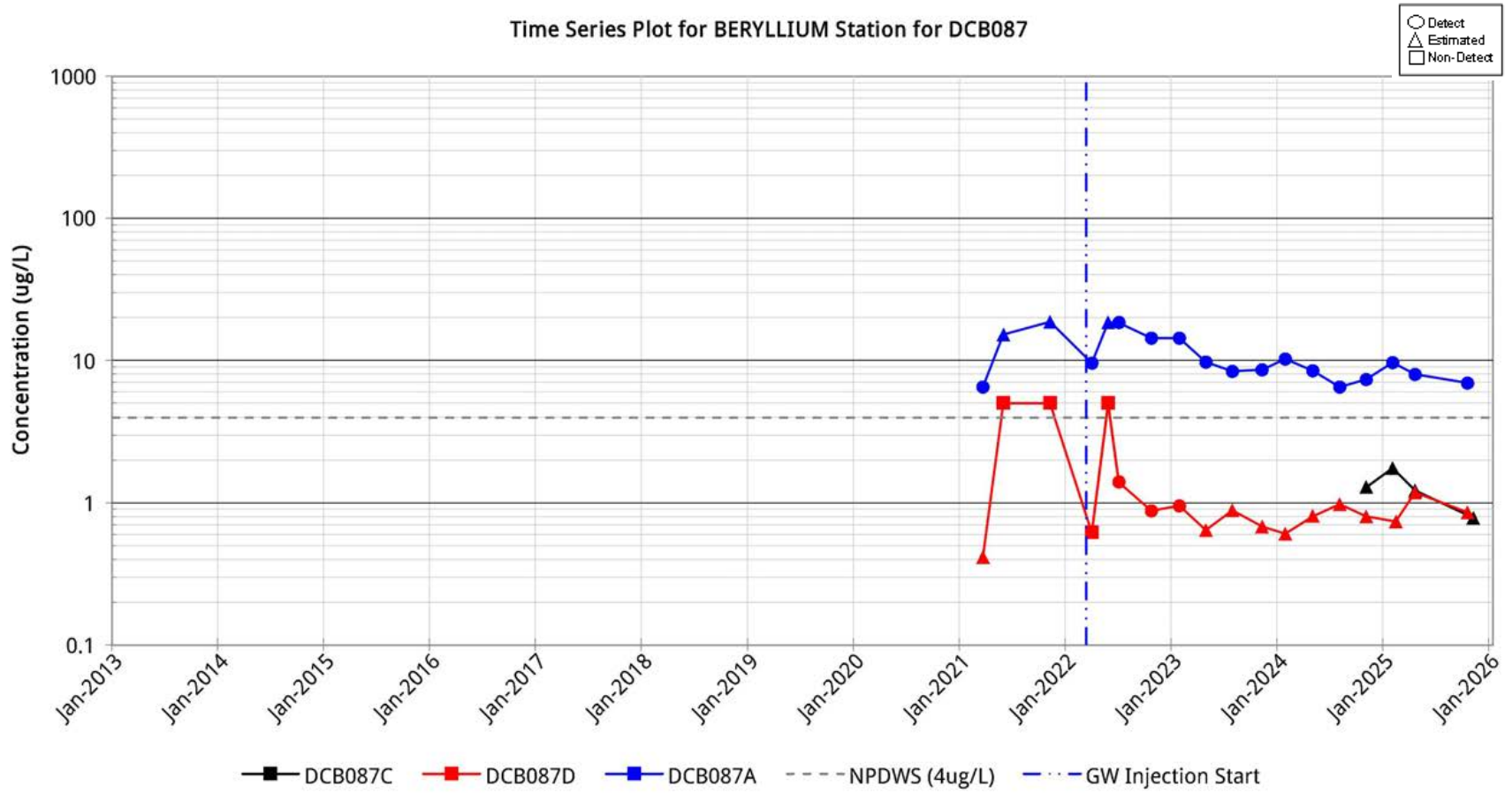

Time Series Plot for BERYLLIUM Station for DCB077
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
NPDWS (4ug/L)
GW Injection Start

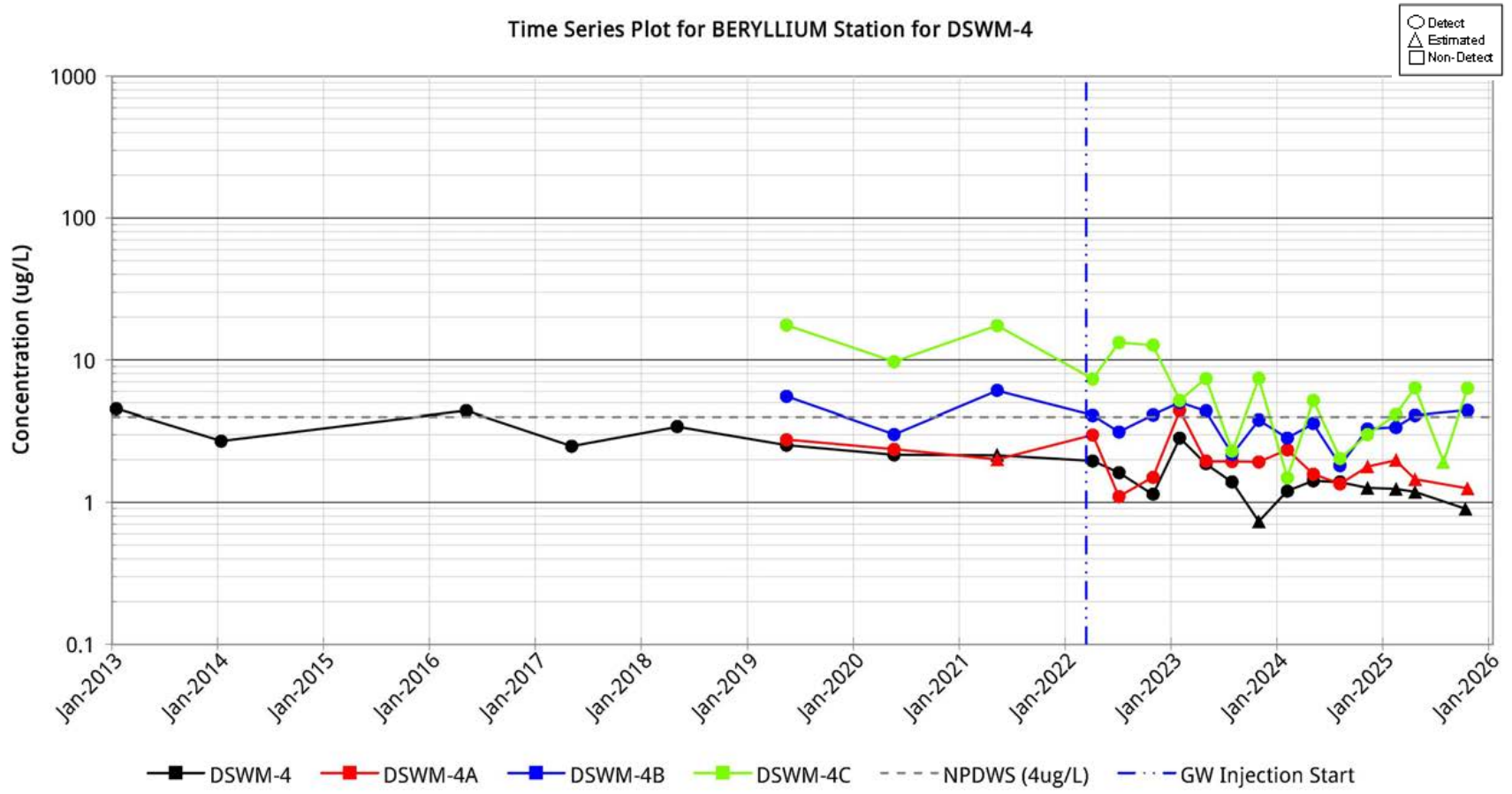


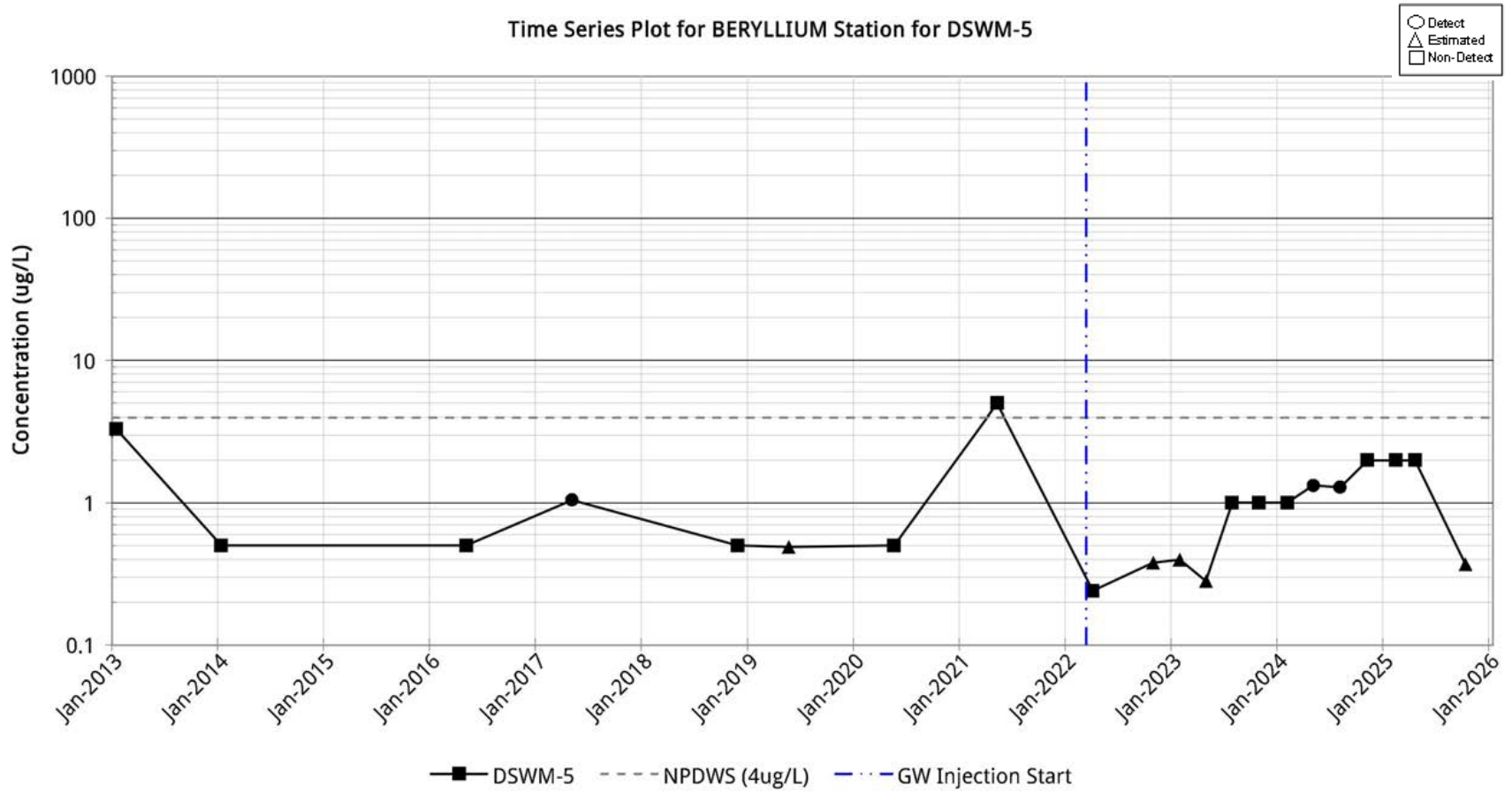
Note: Well DCB078 is a replacement well for DCB 47C

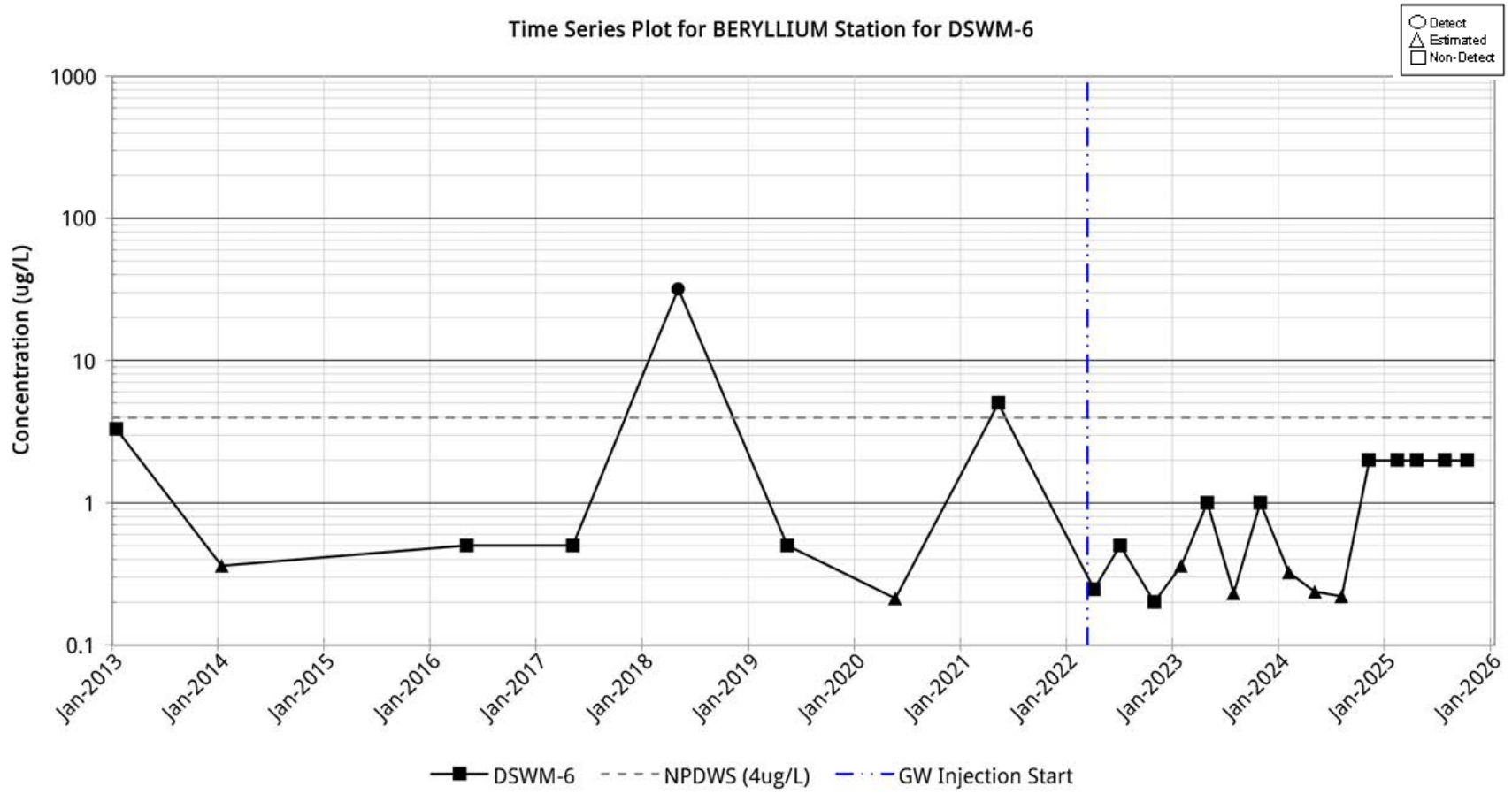

Time Series Plot for BERYLLIUM Station for DCB079
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
NPDWS (4ug/L)
GW Injection Start

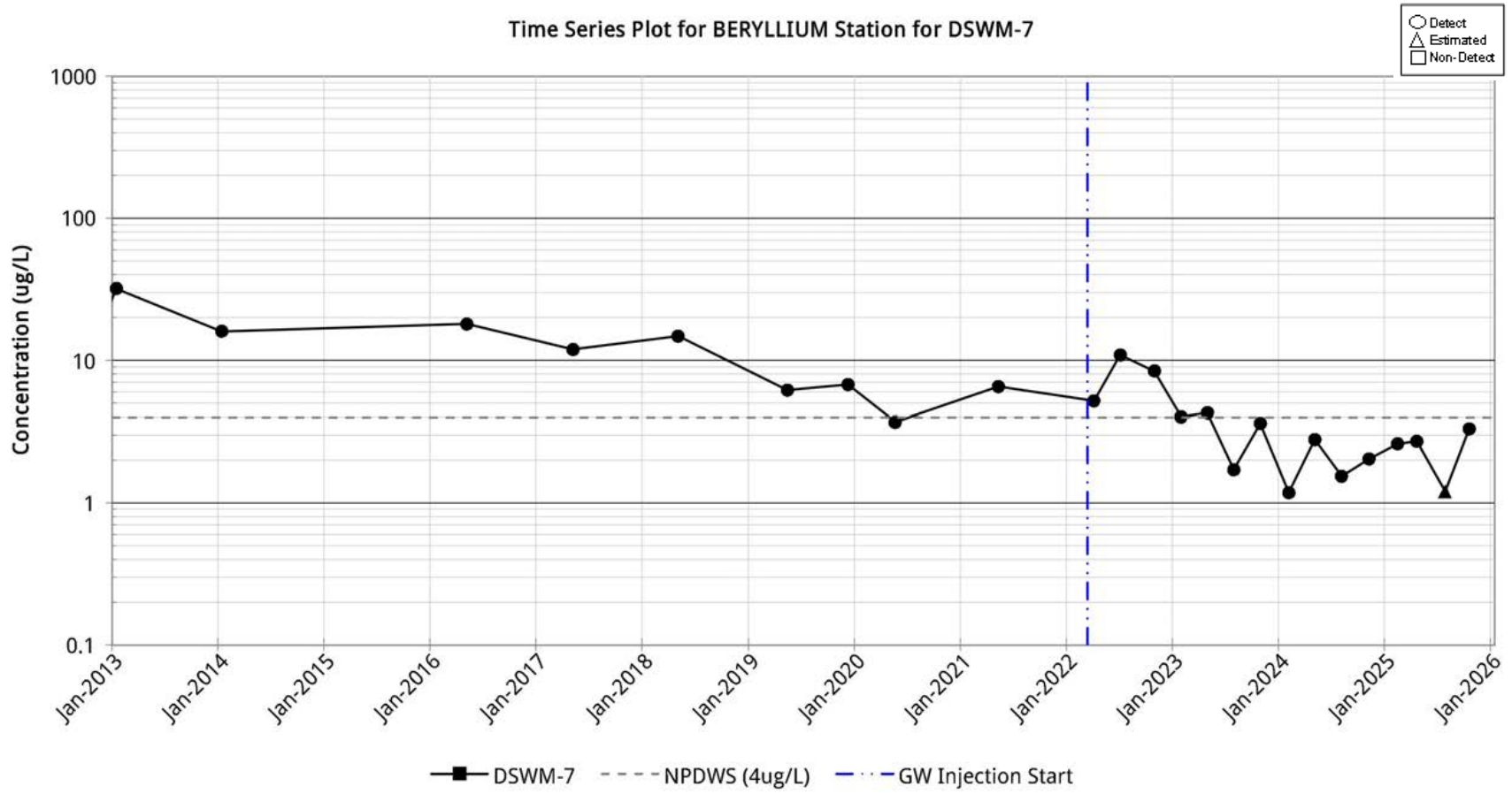

Time Series Plot for BERYLLIUM Station for DCB080
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
NPDWS (4ug/L)
GW Injection Start

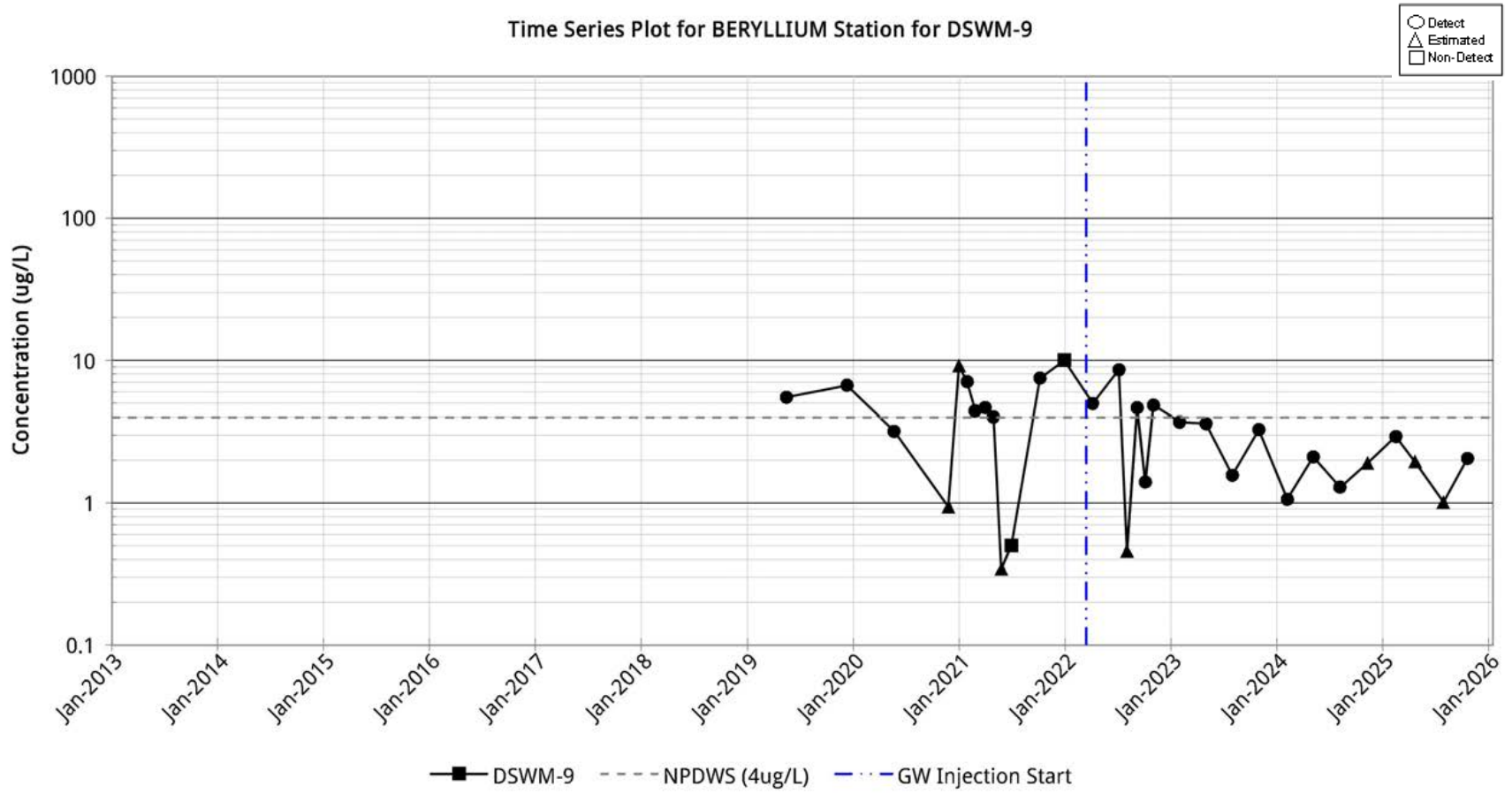

Time Series Plot for BERYLLIUM Station for DCB087
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
NPDWS (4ug/L)
GW Injection Start

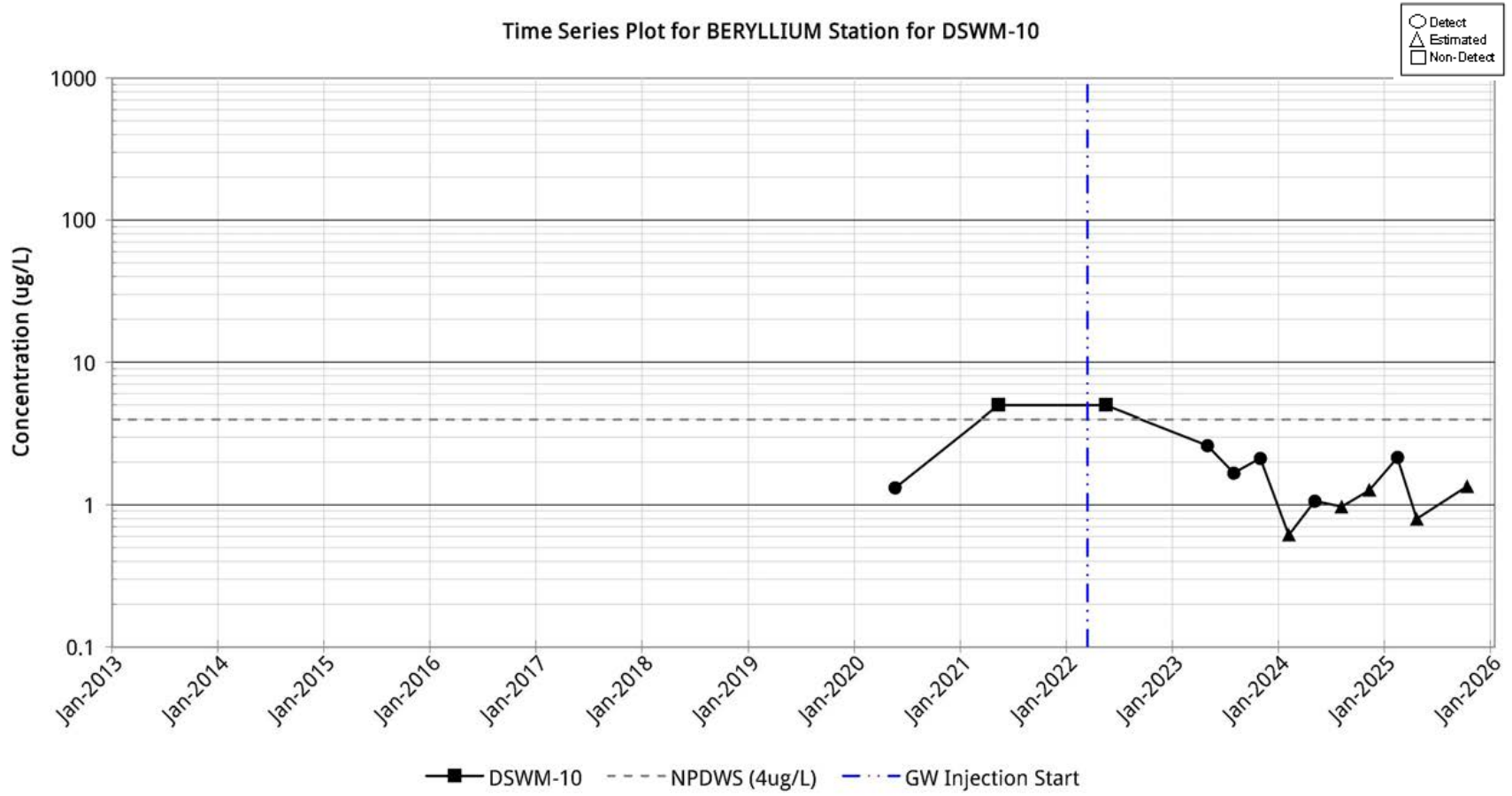

Time Series Plot for BERYLLIUM Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
NPDWS (4ug/L)
GW Injection Start

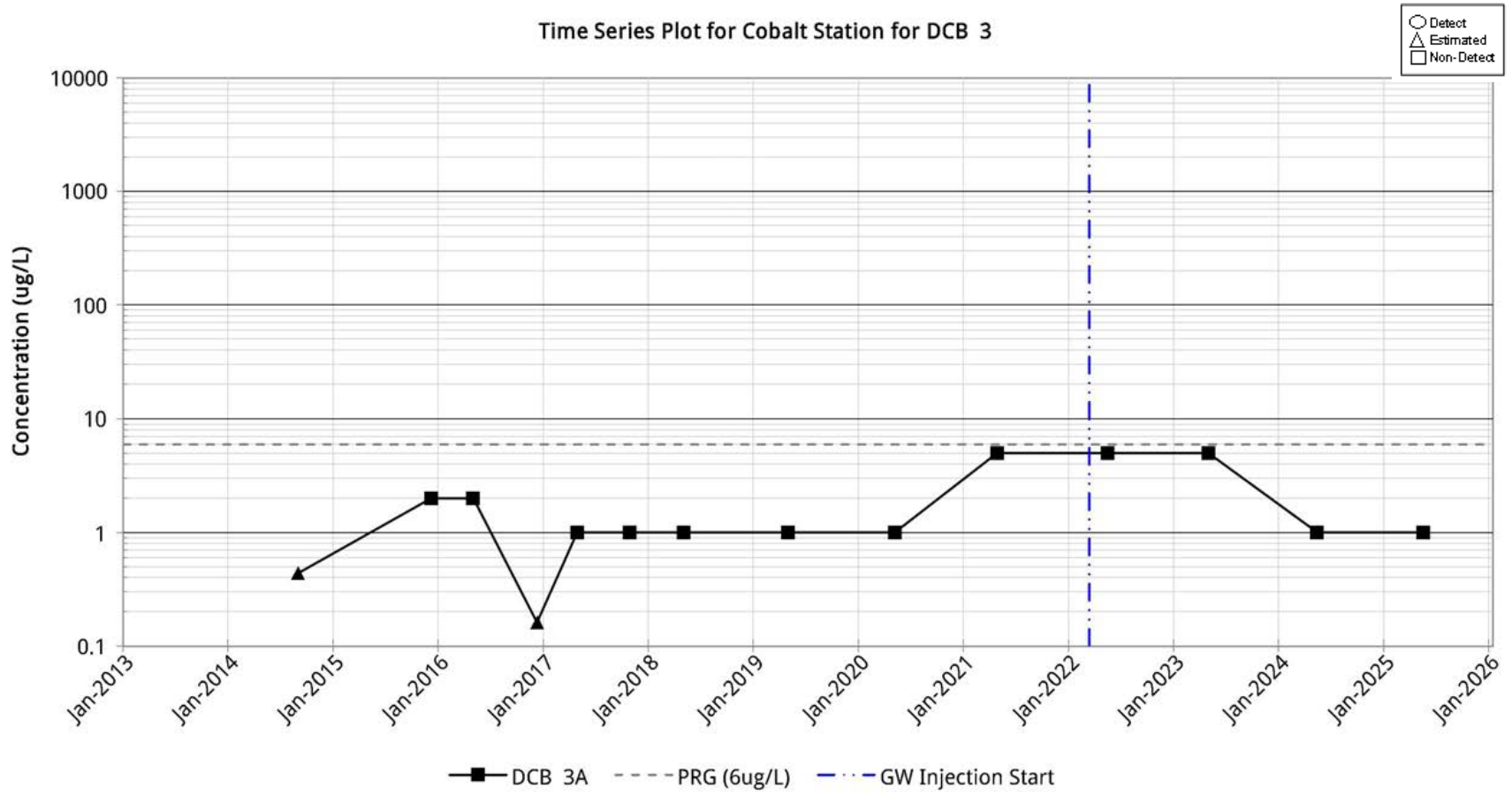

Time Series Plot for BERYLLIUM Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
NPDWS (4ug/L)
GW Injection Start

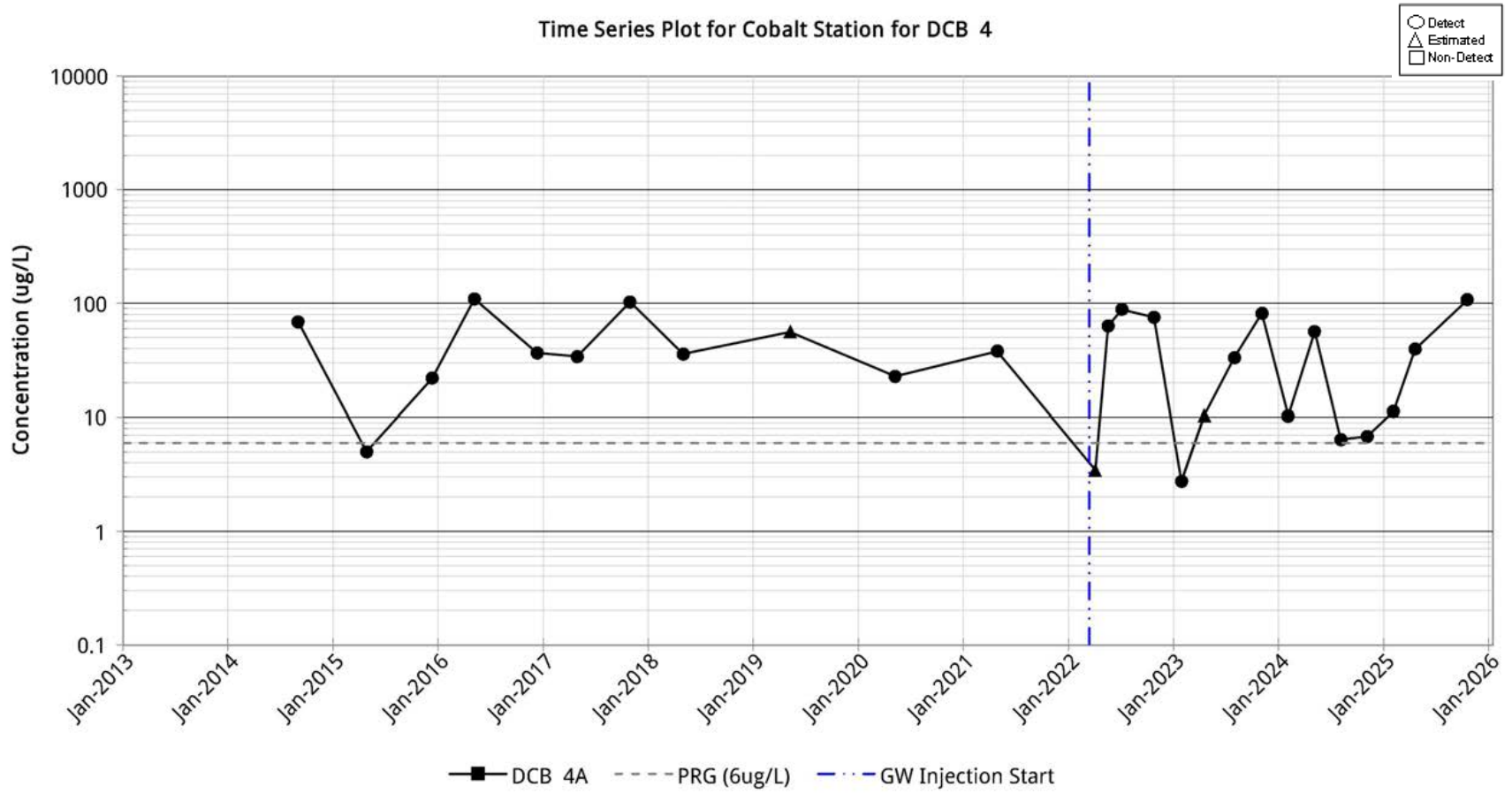

Time Series Plot for BERYLLIUM Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
NPDWS (4ug/L)
GW Injection Start

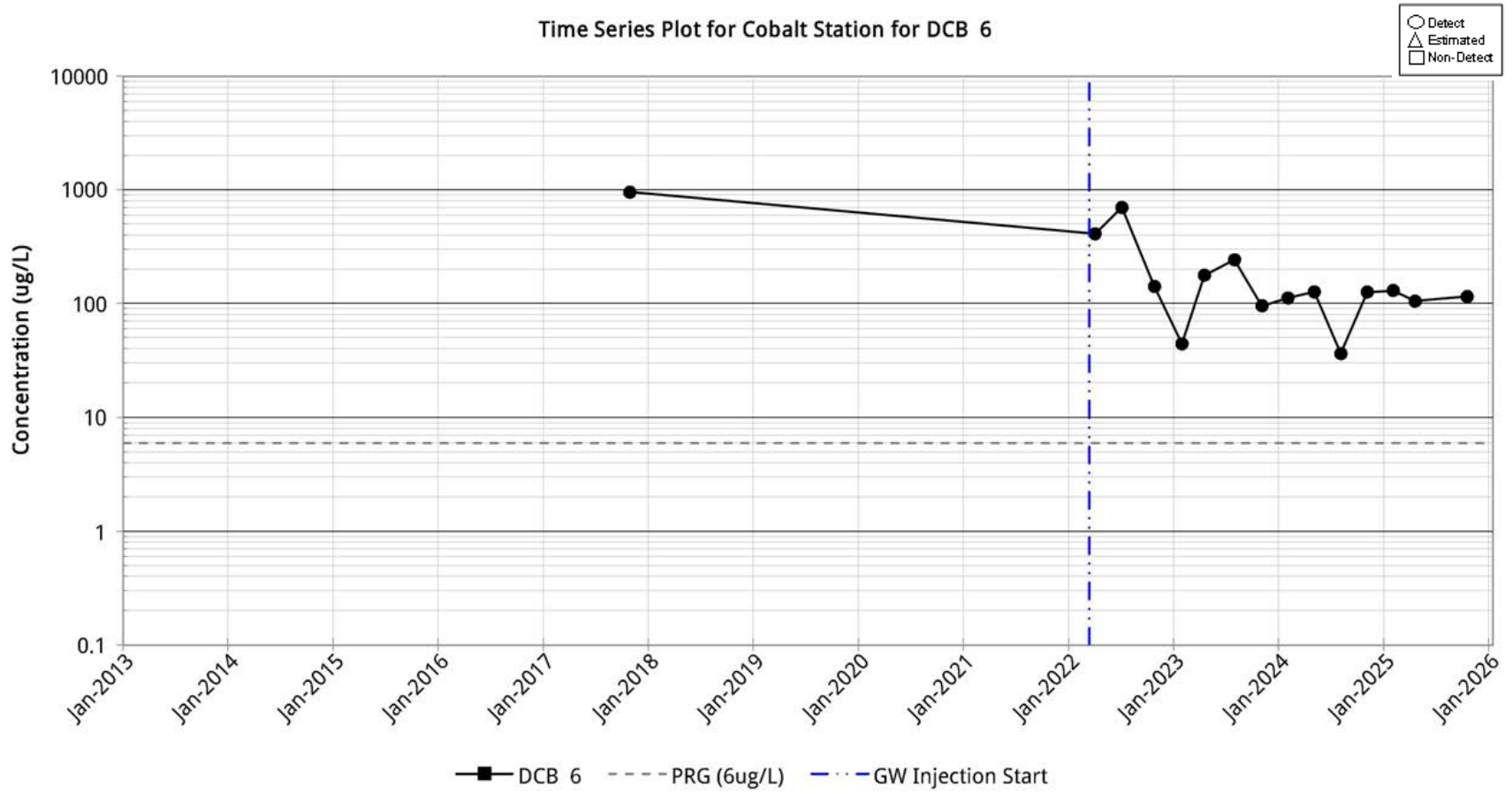

Time Series Plot for BERYLLIUM Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
NPDWS (4ug/L)
GW Injection Start

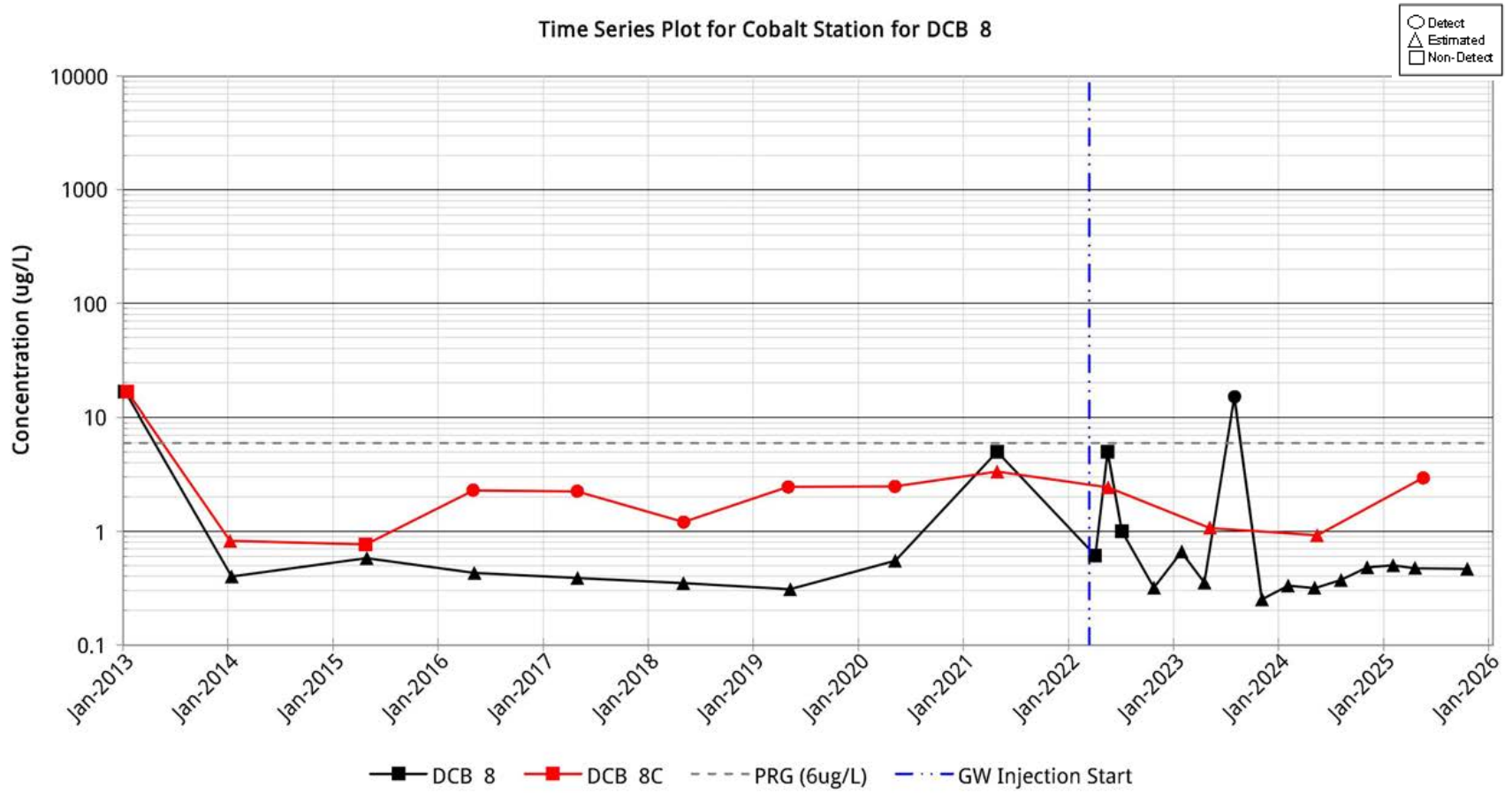

Time Series Plot for BERYLLIUM Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
NPDWS (4ug/L)
GW Injection Start

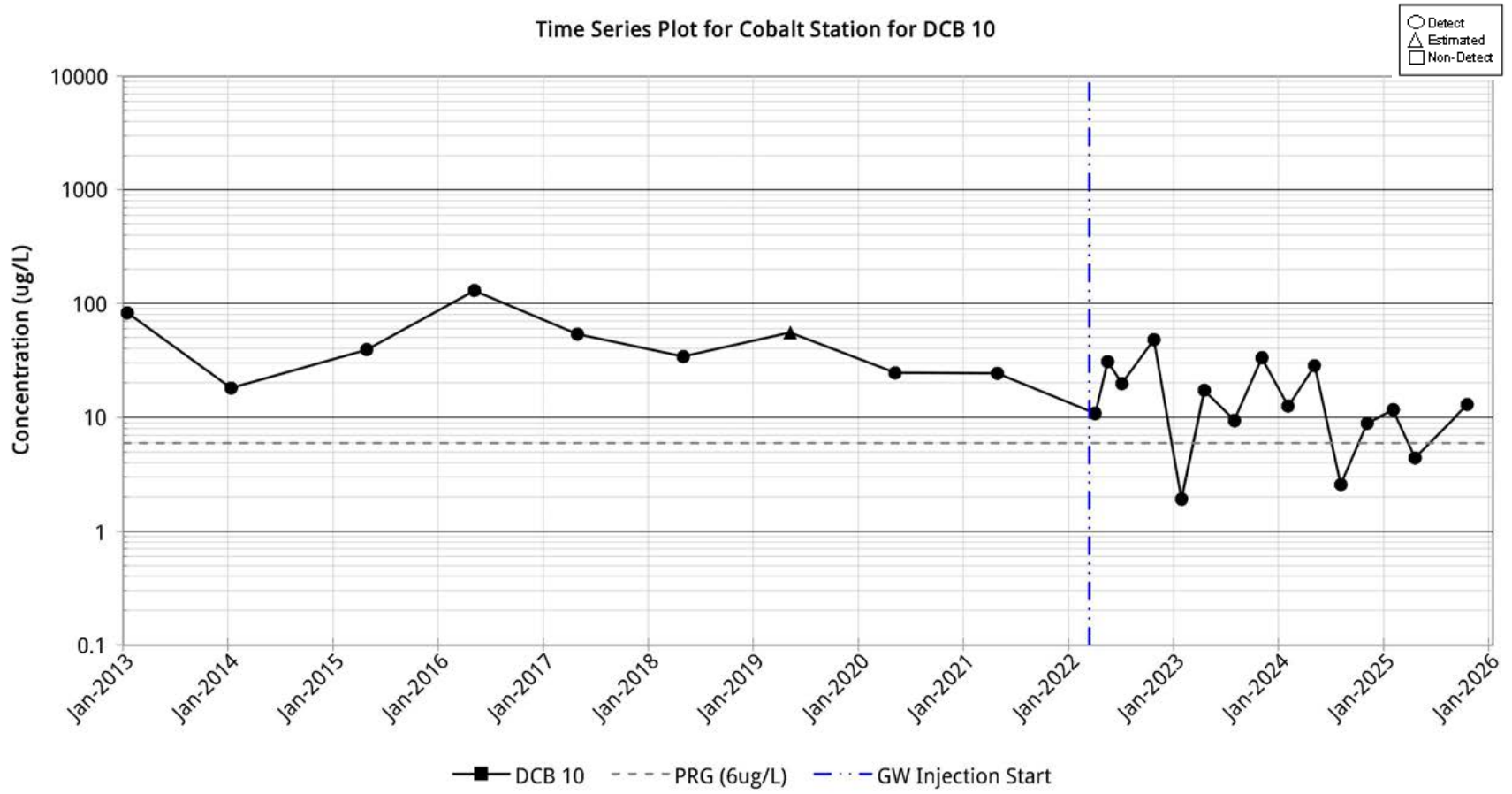

Time Series Plot for BERYLLIUM Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
NPDWS (4ug/L)
GW Injection Start

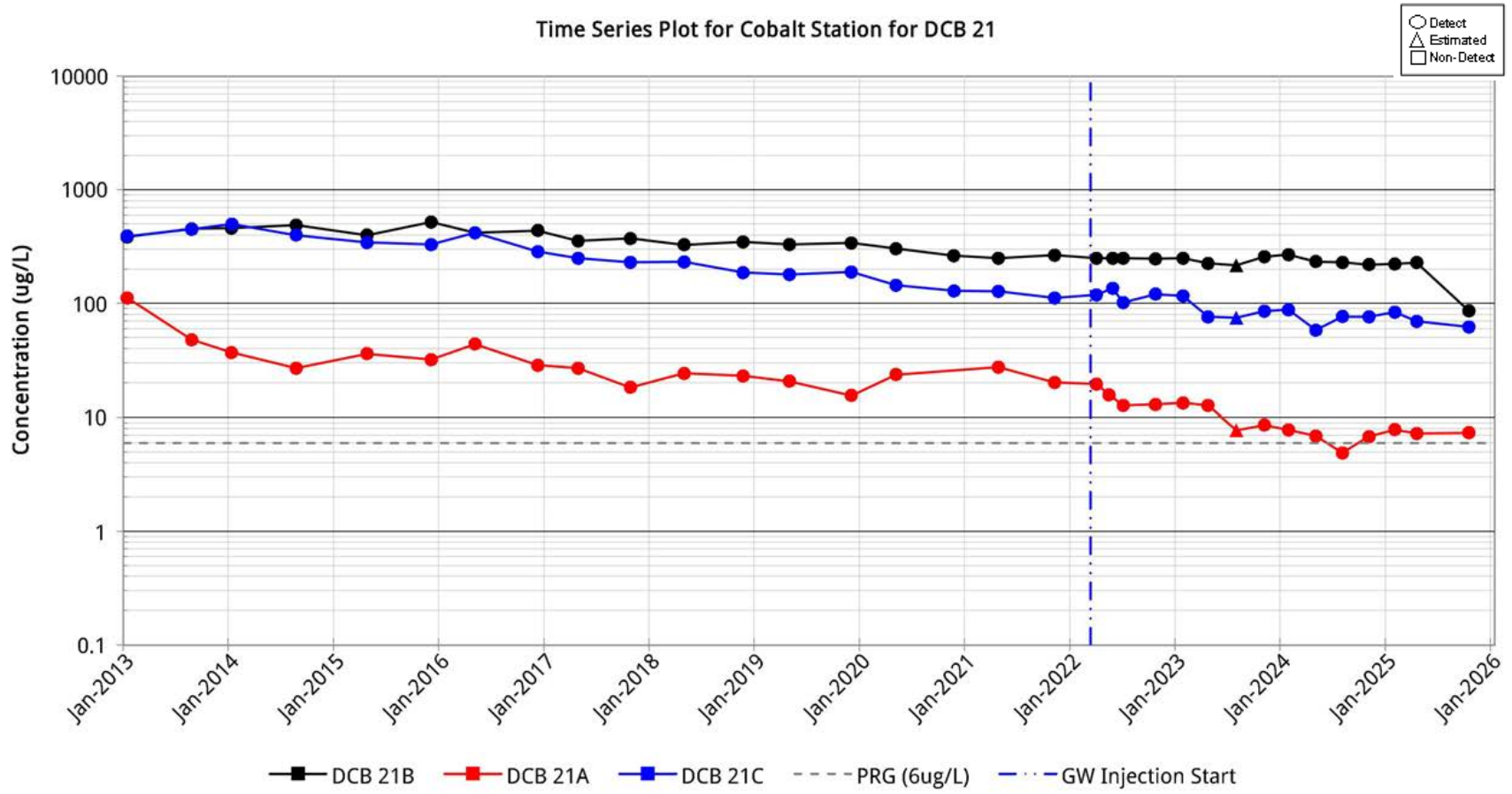

Time Series Plot for Cobalt Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
PRG (6ug/L)
GW Injection Start

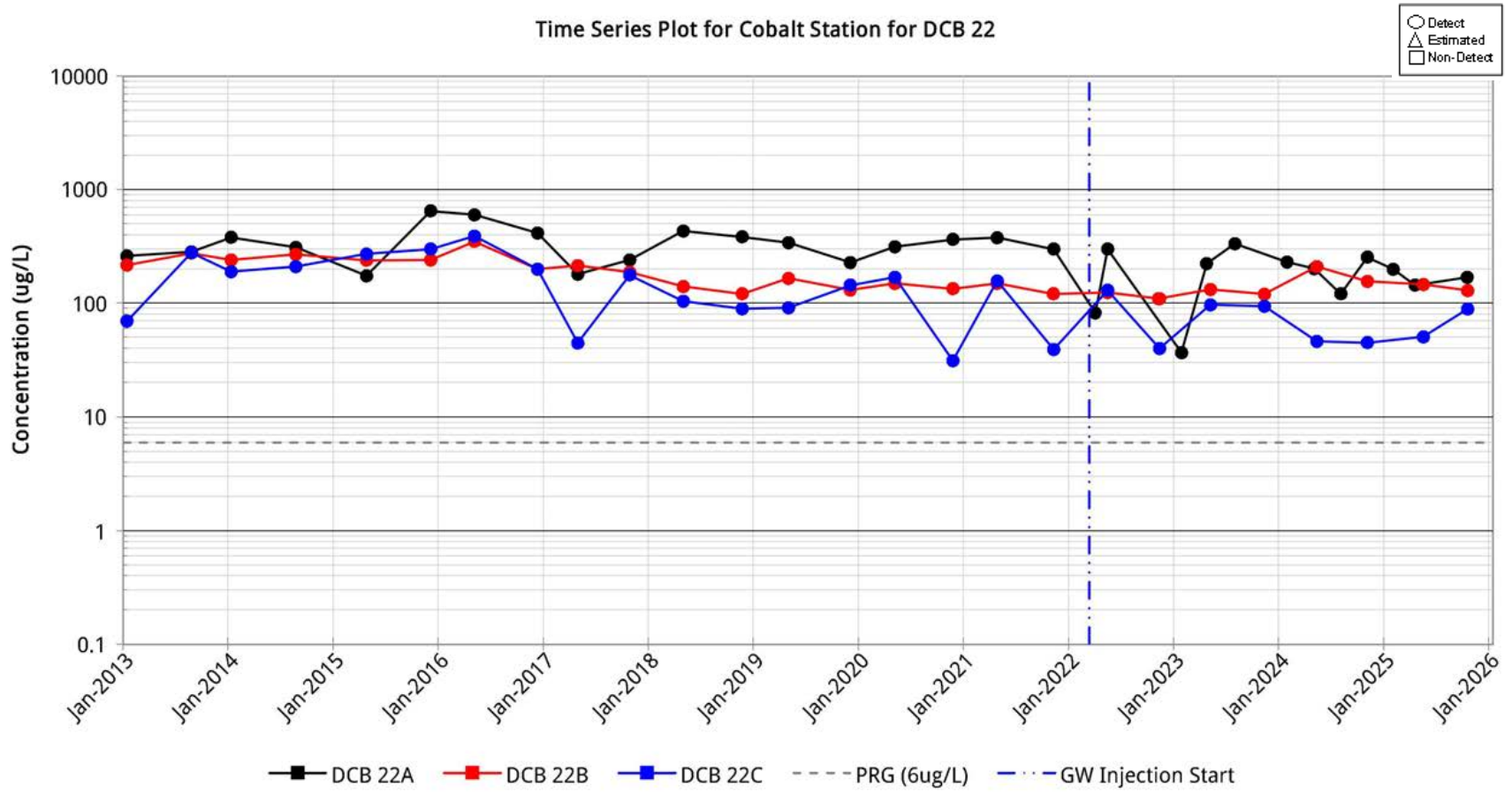

Time Series Plot for Cobalt Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
PRG (6ug/L)
GW Injection Start

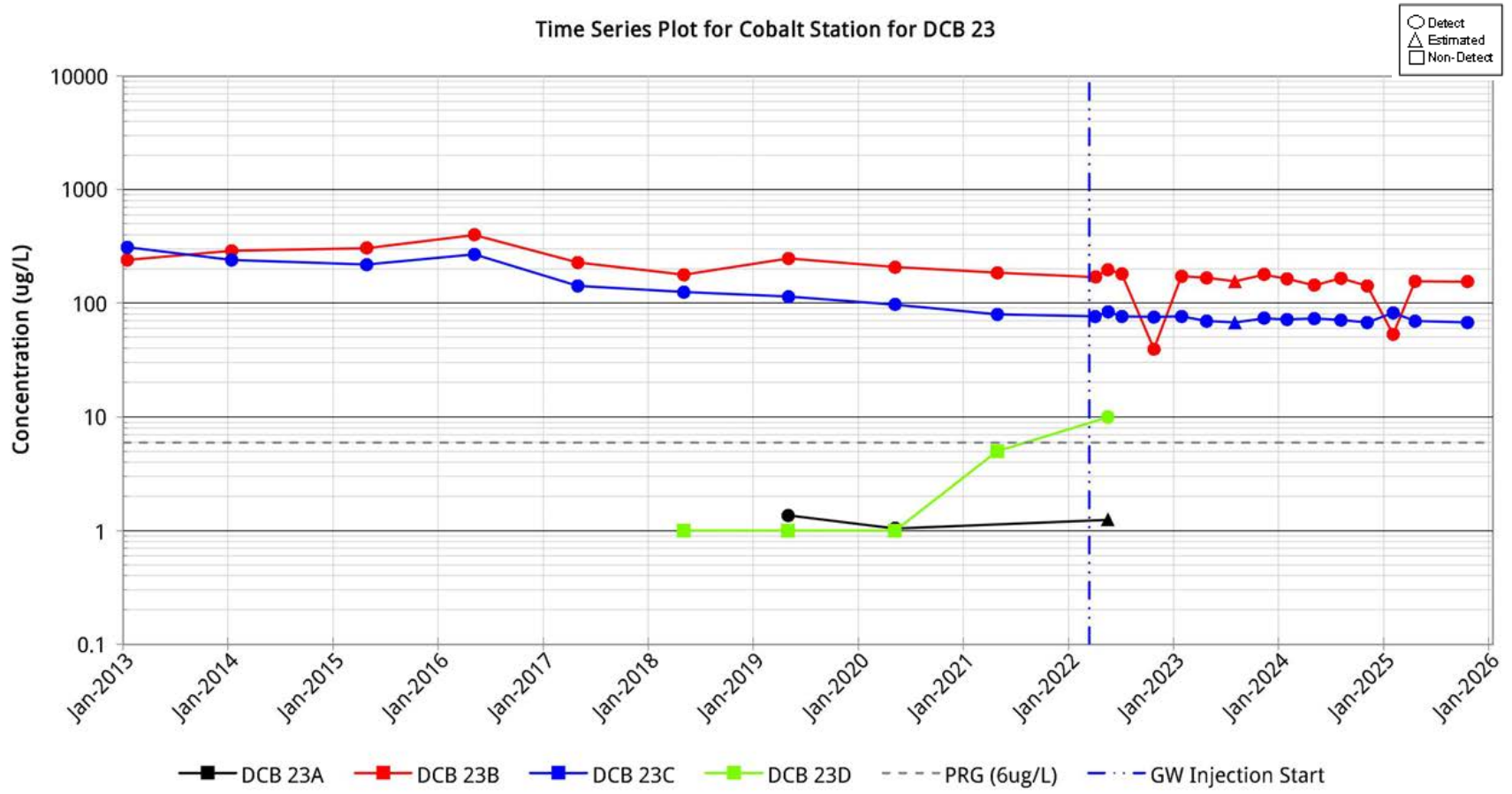

Time Series Plot for Cobalt Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
PRG (6ug/L)
GW Injection Start

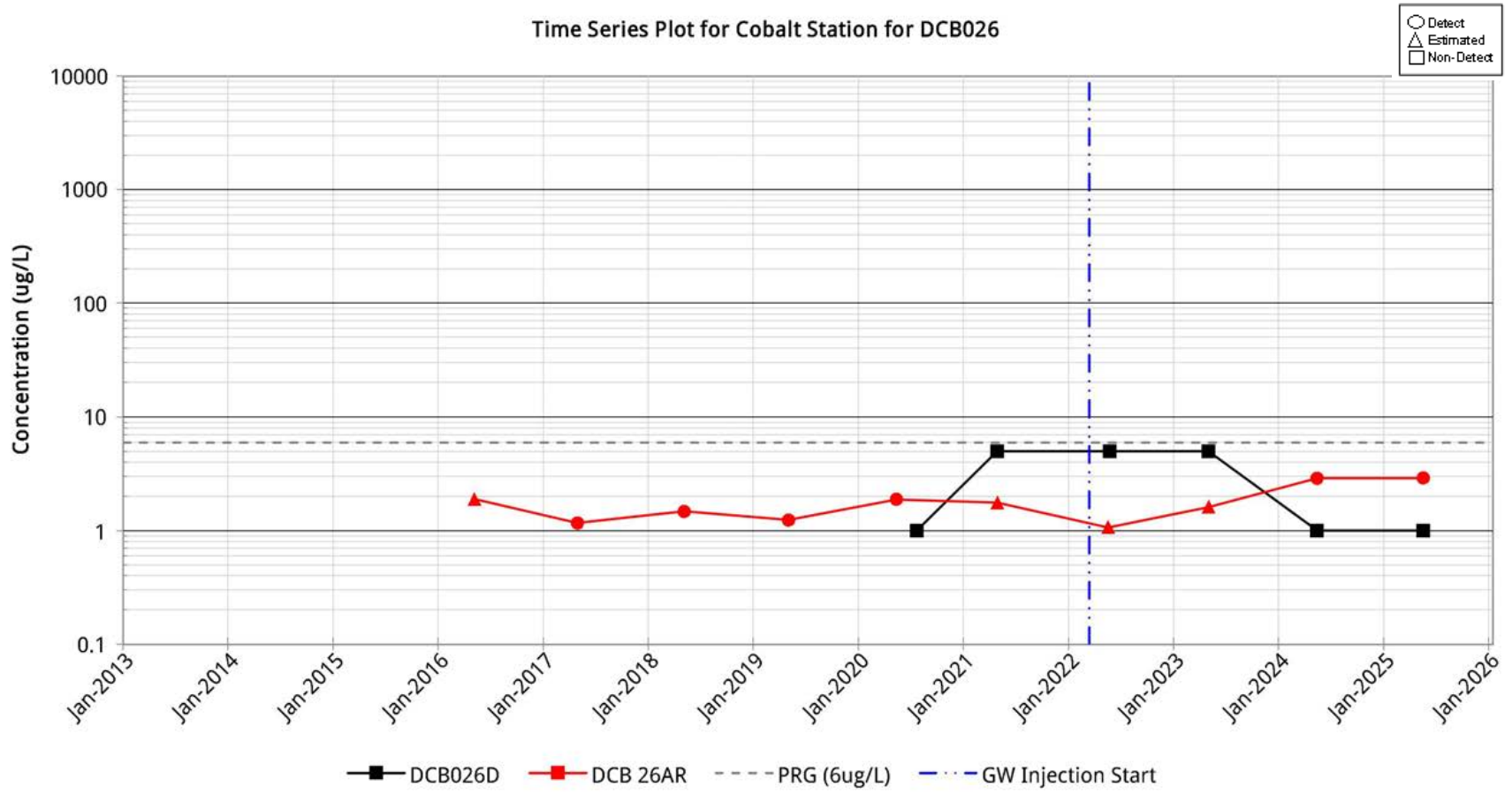

Time Series Plot for Cobalt Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
PRG (6ug/L)
GW Injection Start

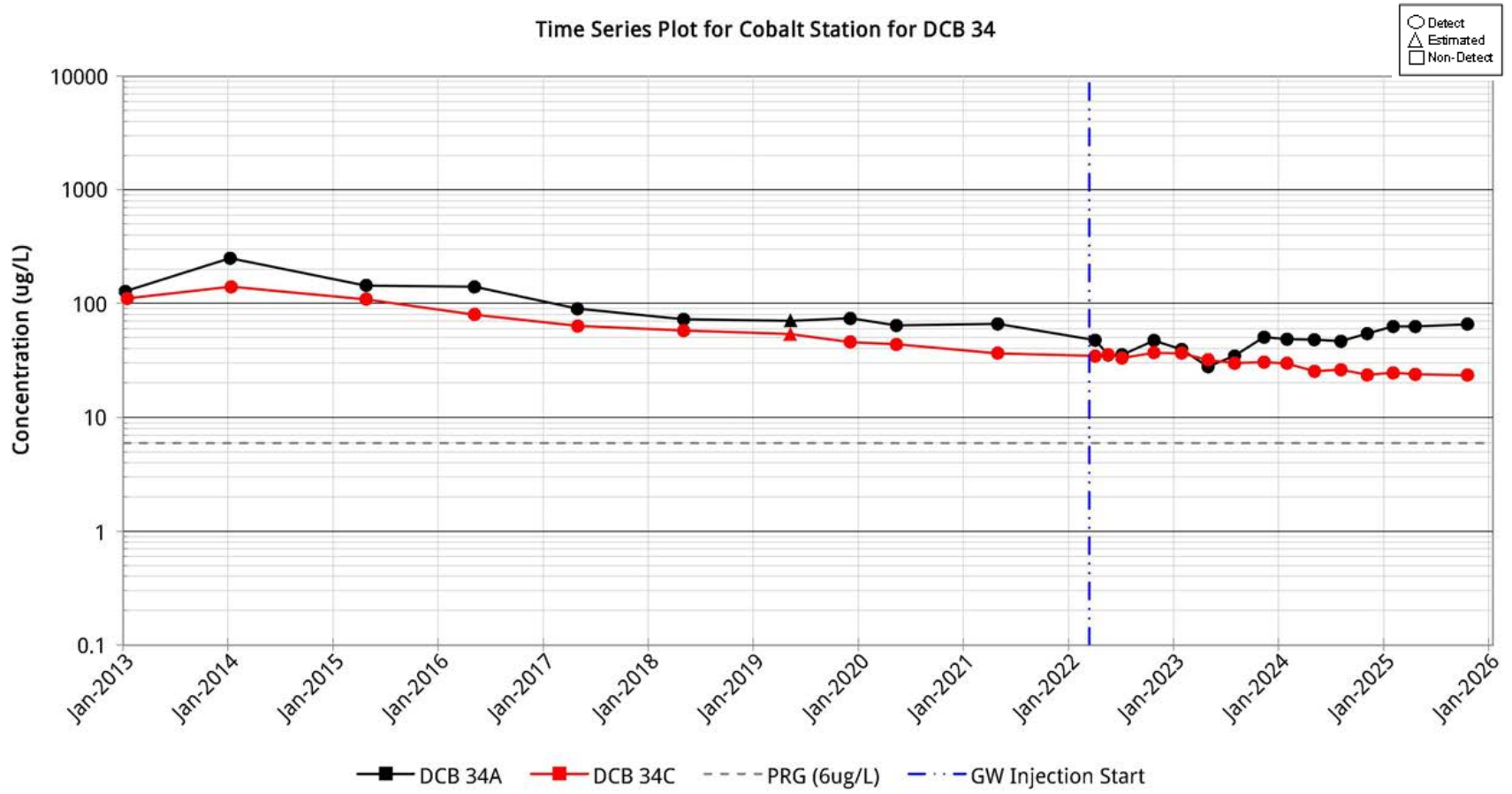

Time Series Plot for Cobalt Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
PRG (6ug/L)
GW Injection Start

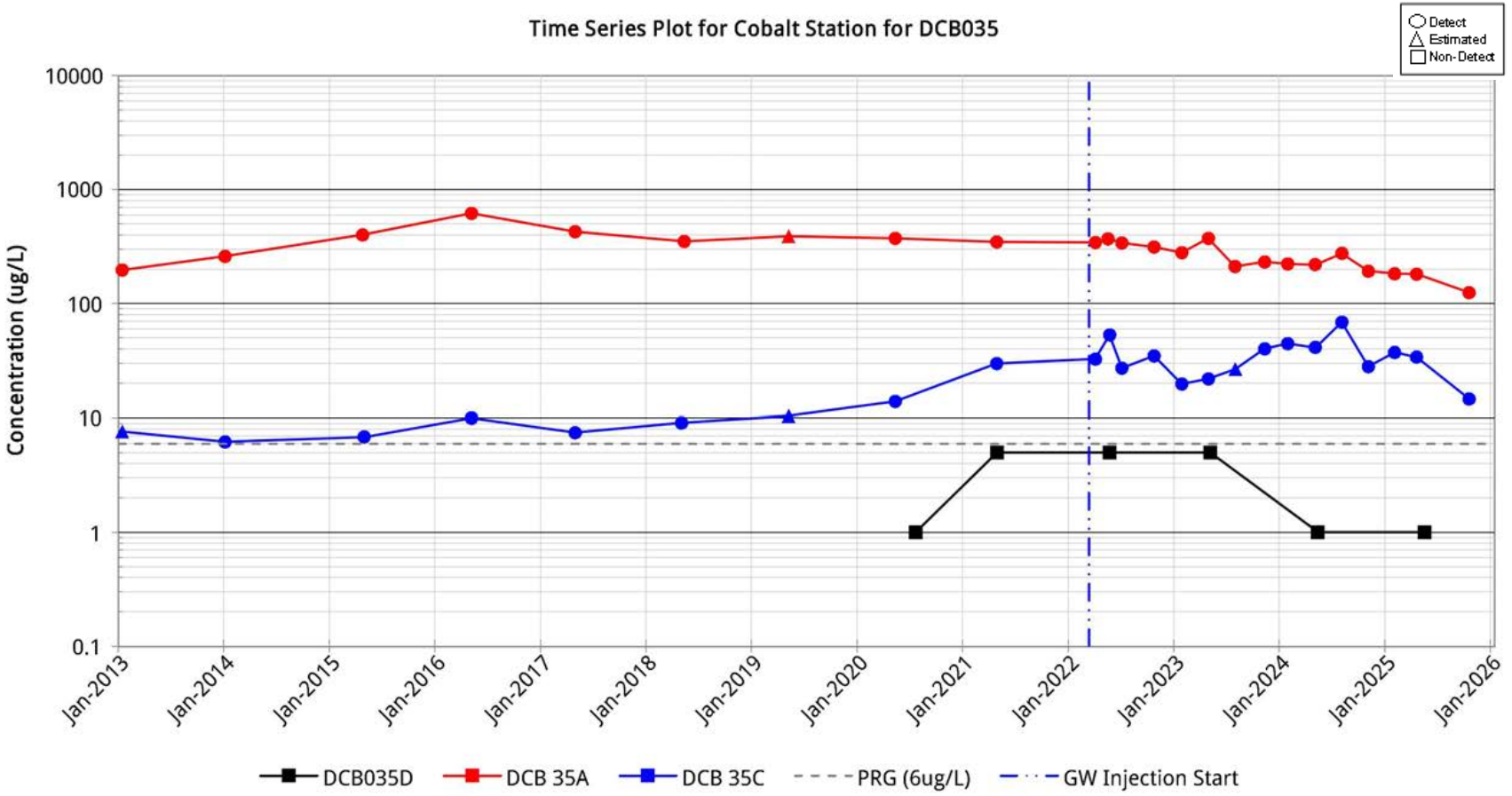

Time Series Plot for Cobalt Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
PRG (6ug/L)
GW Injection Start

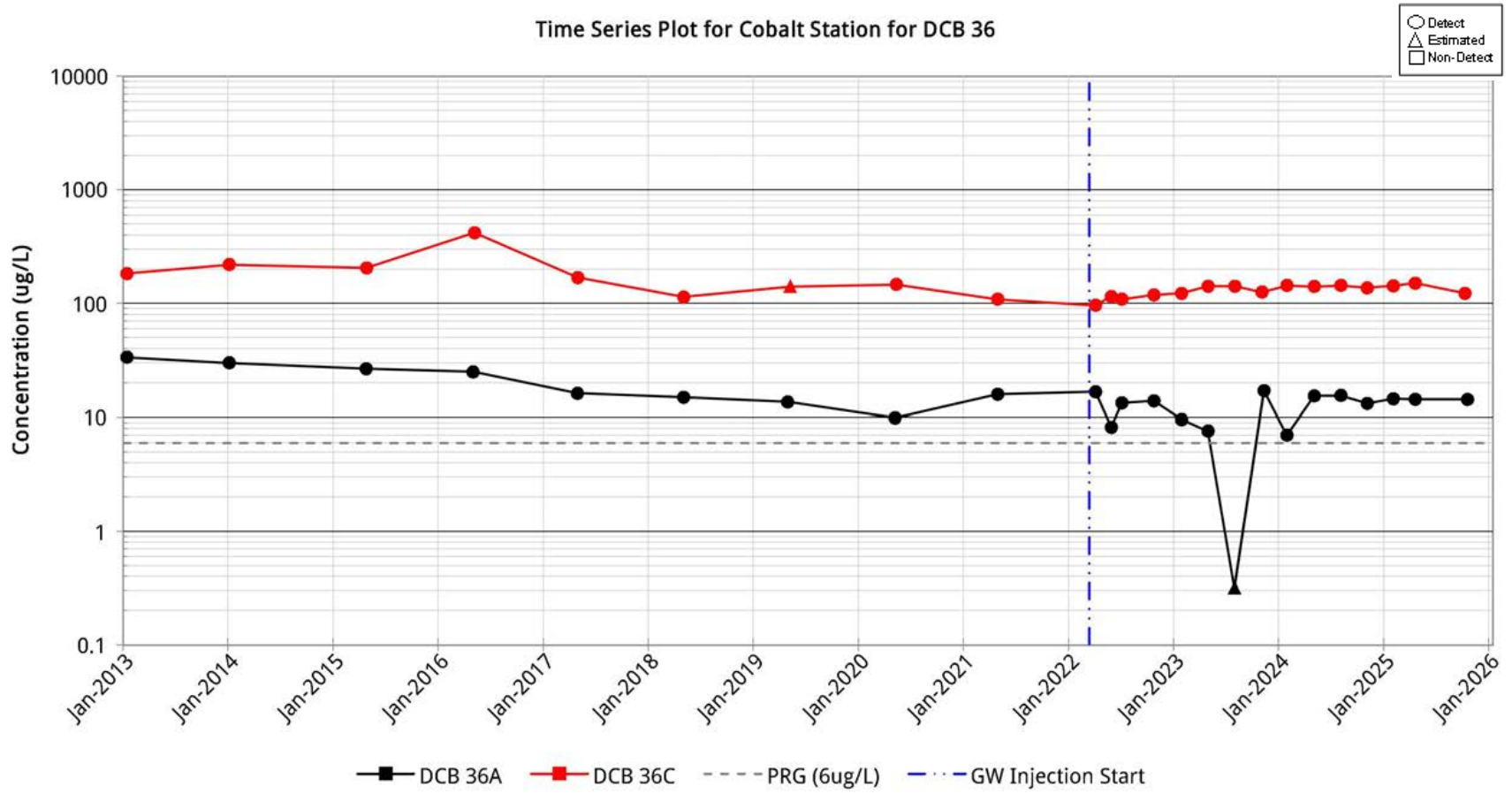

Time Series Plot for Cobalt Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
PRG (6ug/L)
GW Injection Start

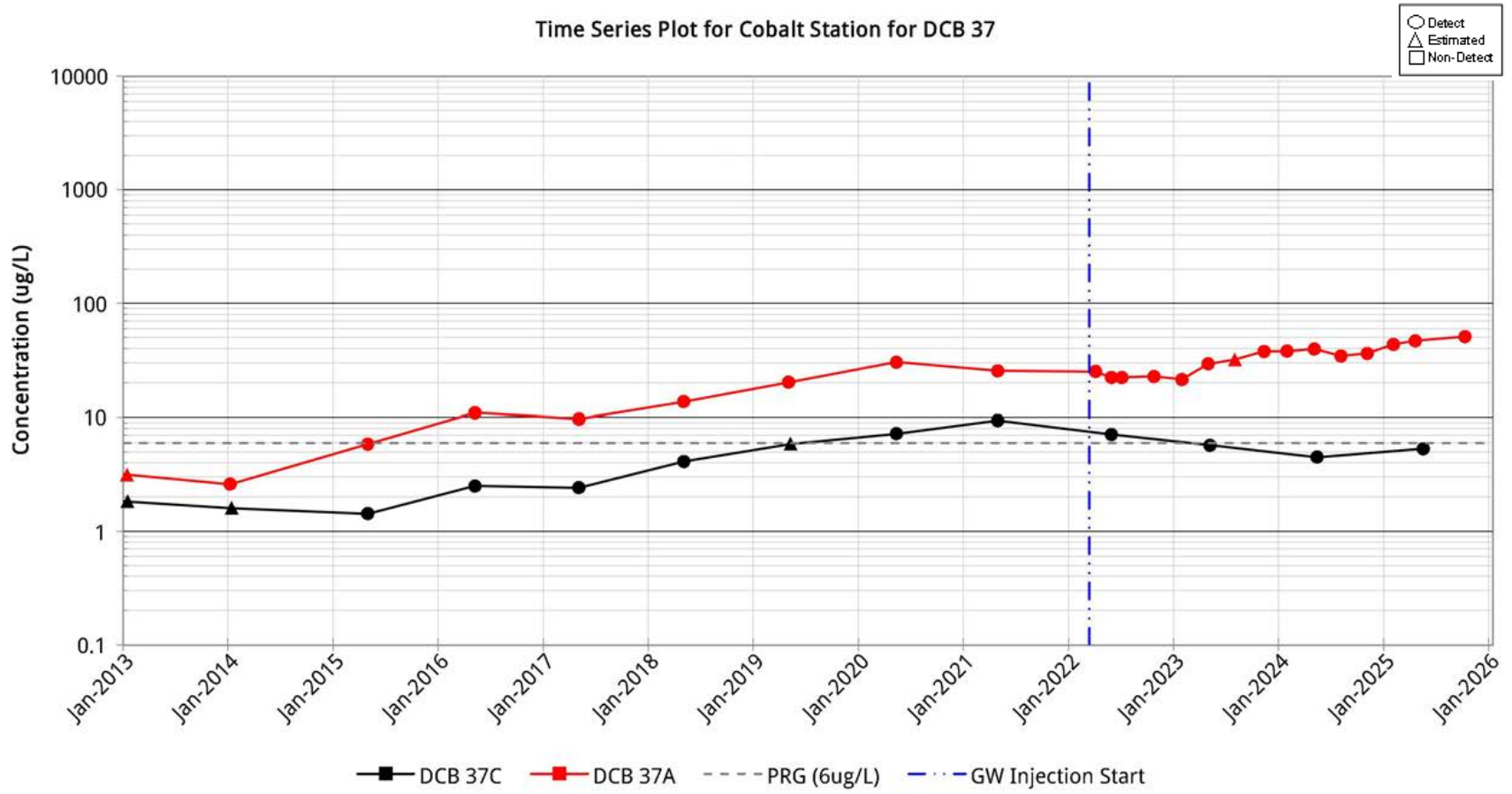

Time Series Plot for Cobalt Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
PRG (6ug/L)
GW Injection Start

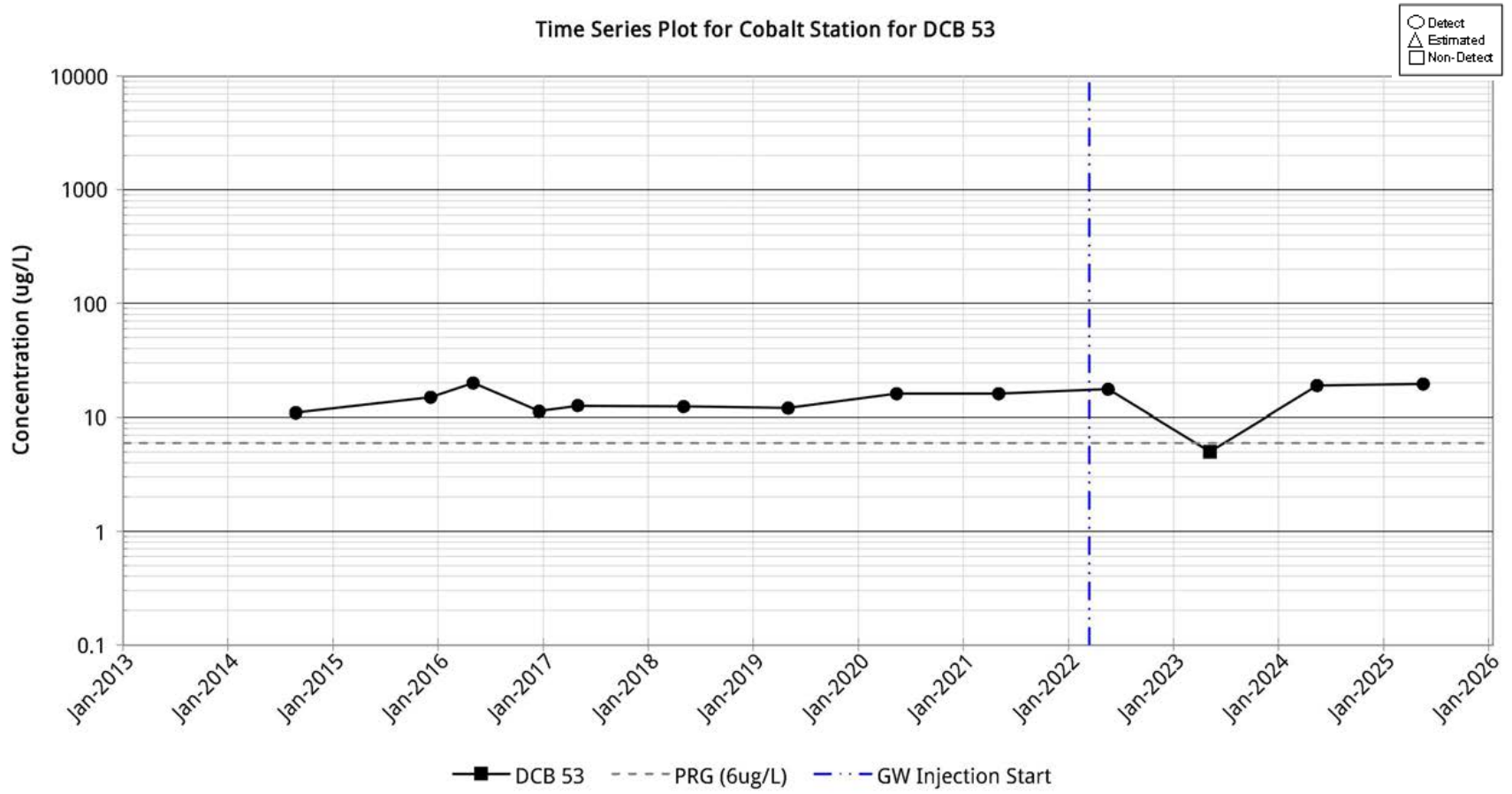

Time Series Plot for Cobalt Station for DCB026
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
PRG (6ug/L)
GW Injection Start

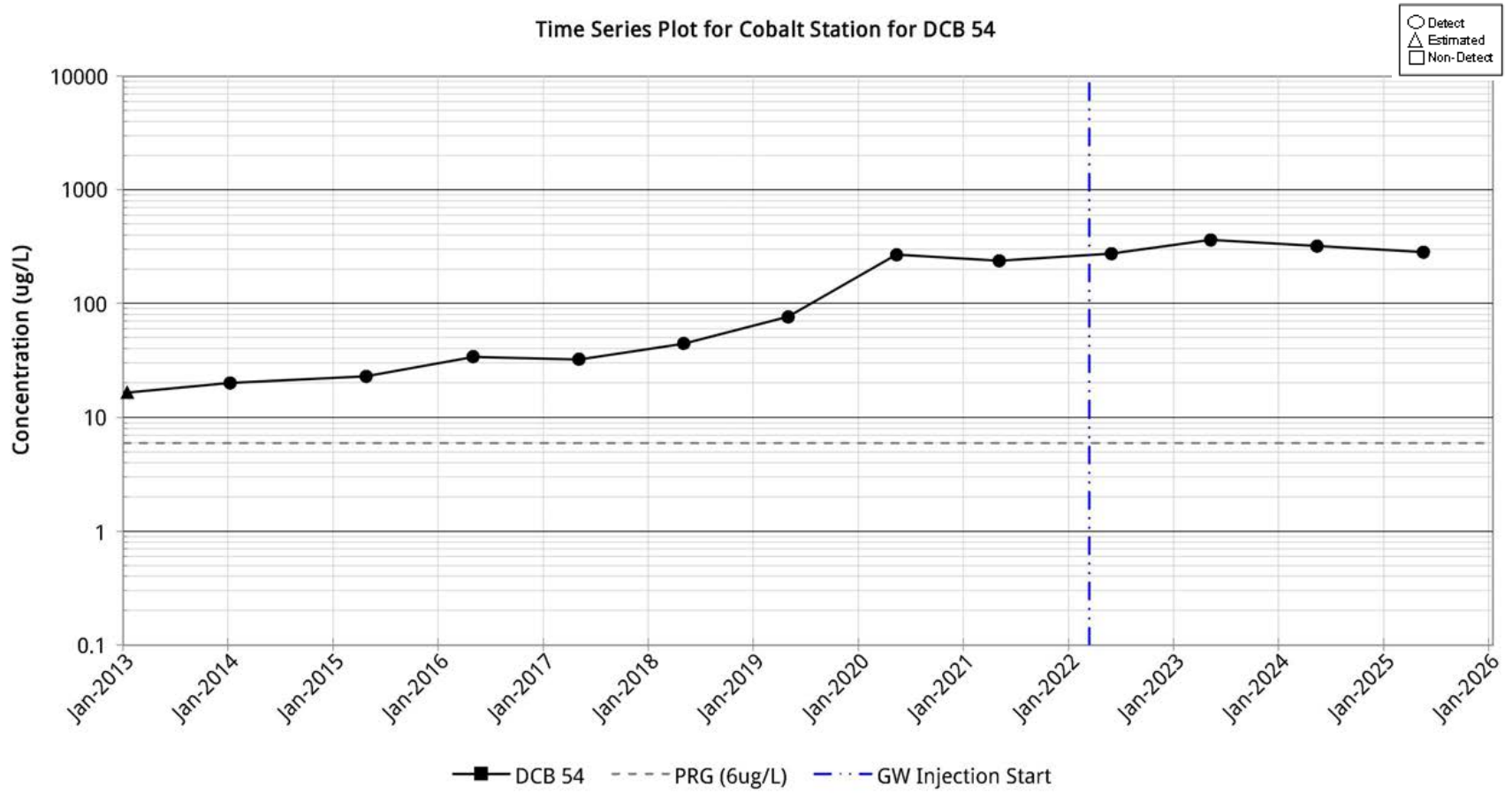

Time Series Plot for Cobalt Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
PRG (6ug/L)
GW Injection Start

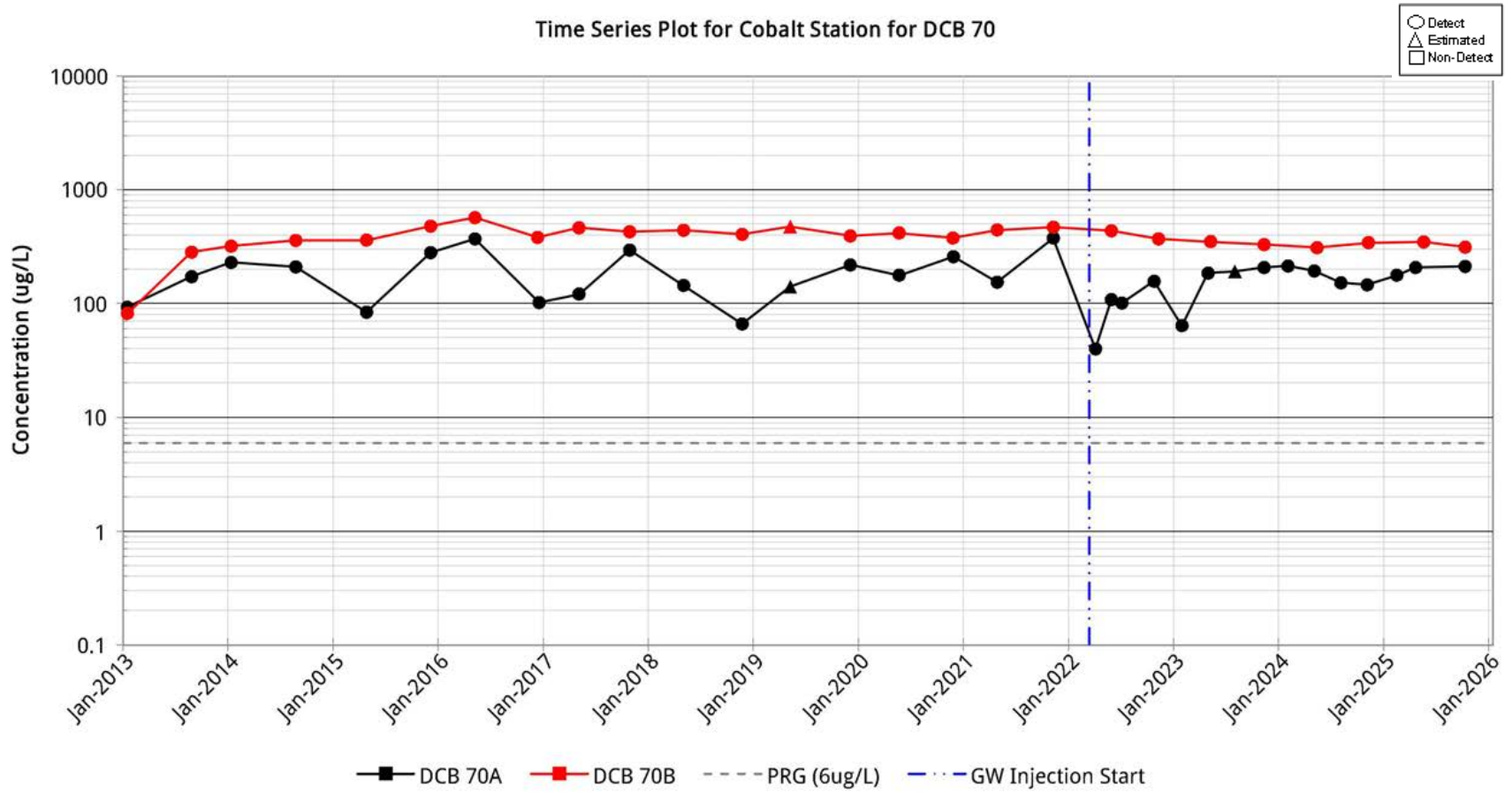

Time Series Plot for Cobalt Station for DCB035
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
PRG (6ug/L)
GW Injection Start

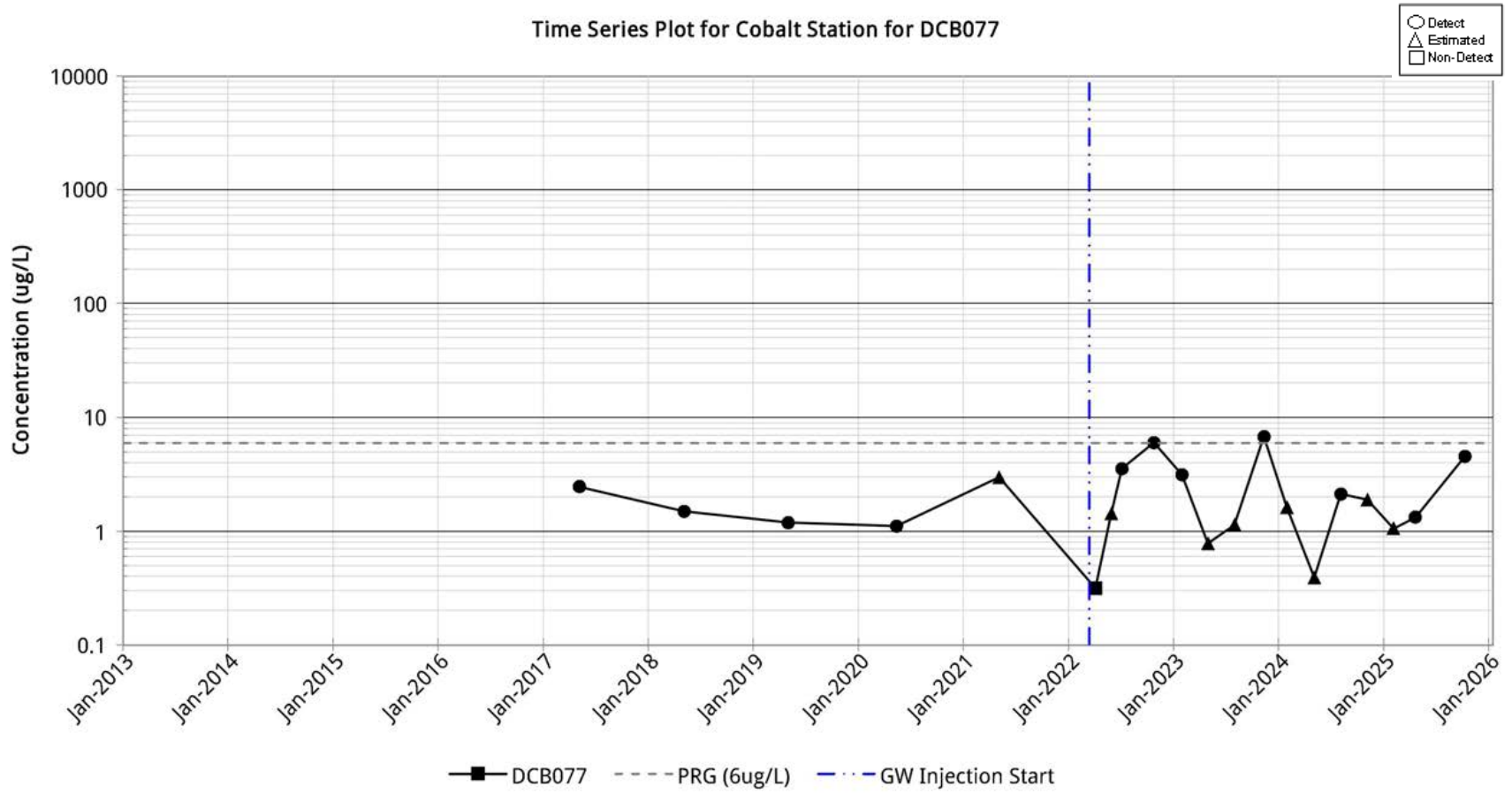

Time Series Plot for Cobalt Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
PRG (6ug/L)
GW Injection Start

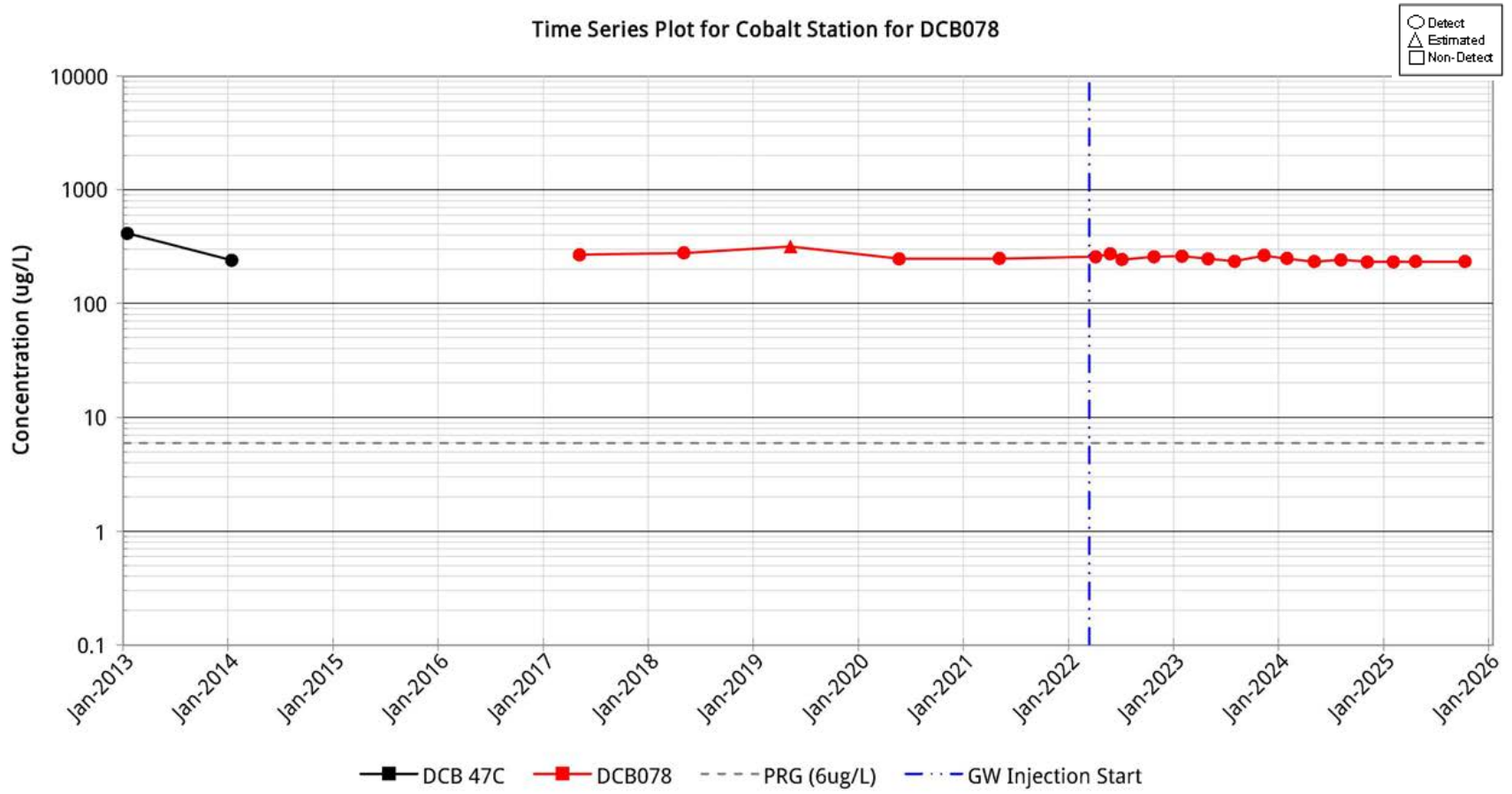

Time Series Plot for Cobalt Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
PRG (6ug/L)
GW Injection Start


Time Series Plot for Cobalt Station for DCB 53
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
PRG (6ug/L)
GW Injection Start

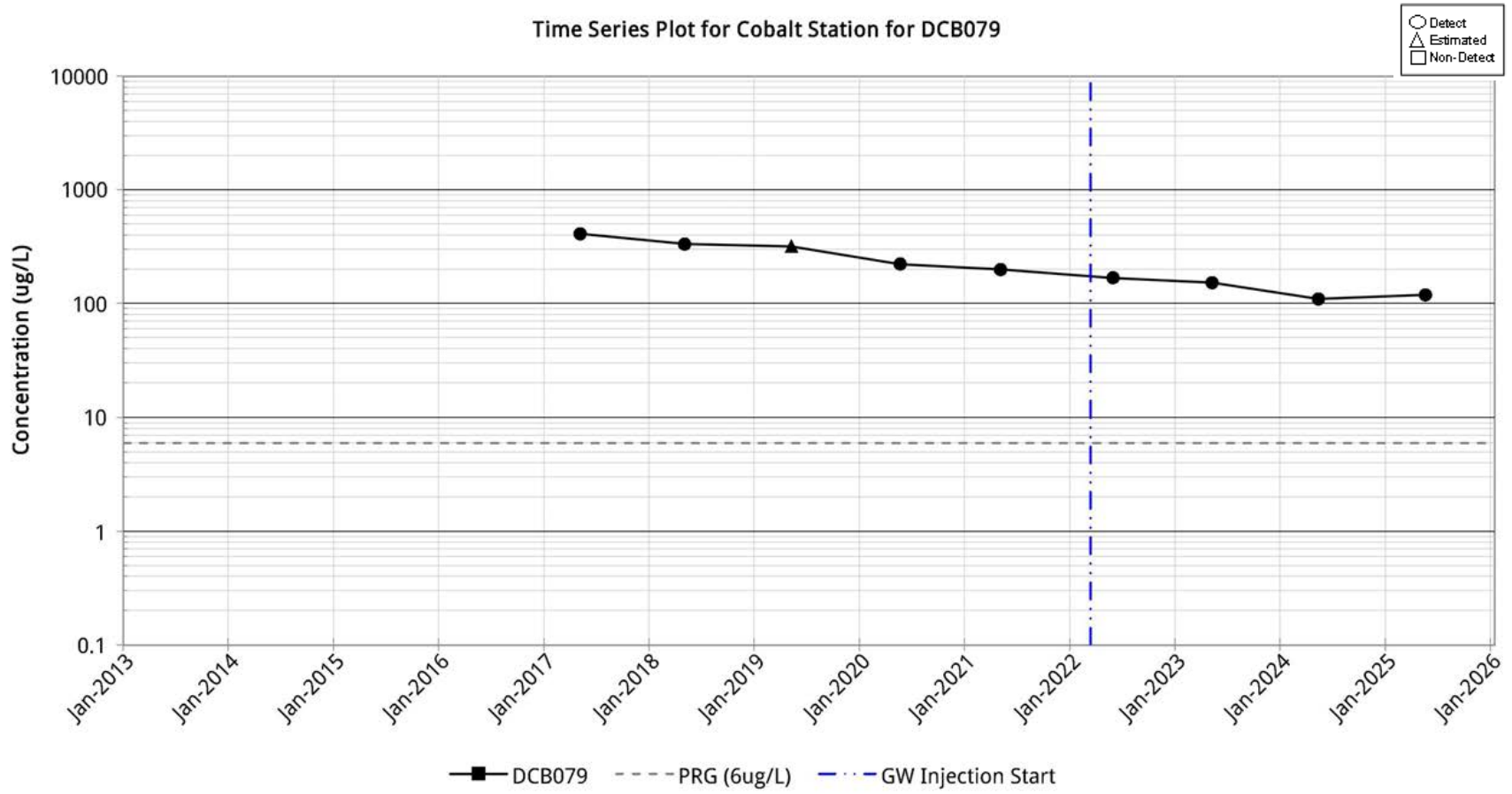

Time Series Plot for Cobalt Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
PRG (6ug/L)
GW Injection Start

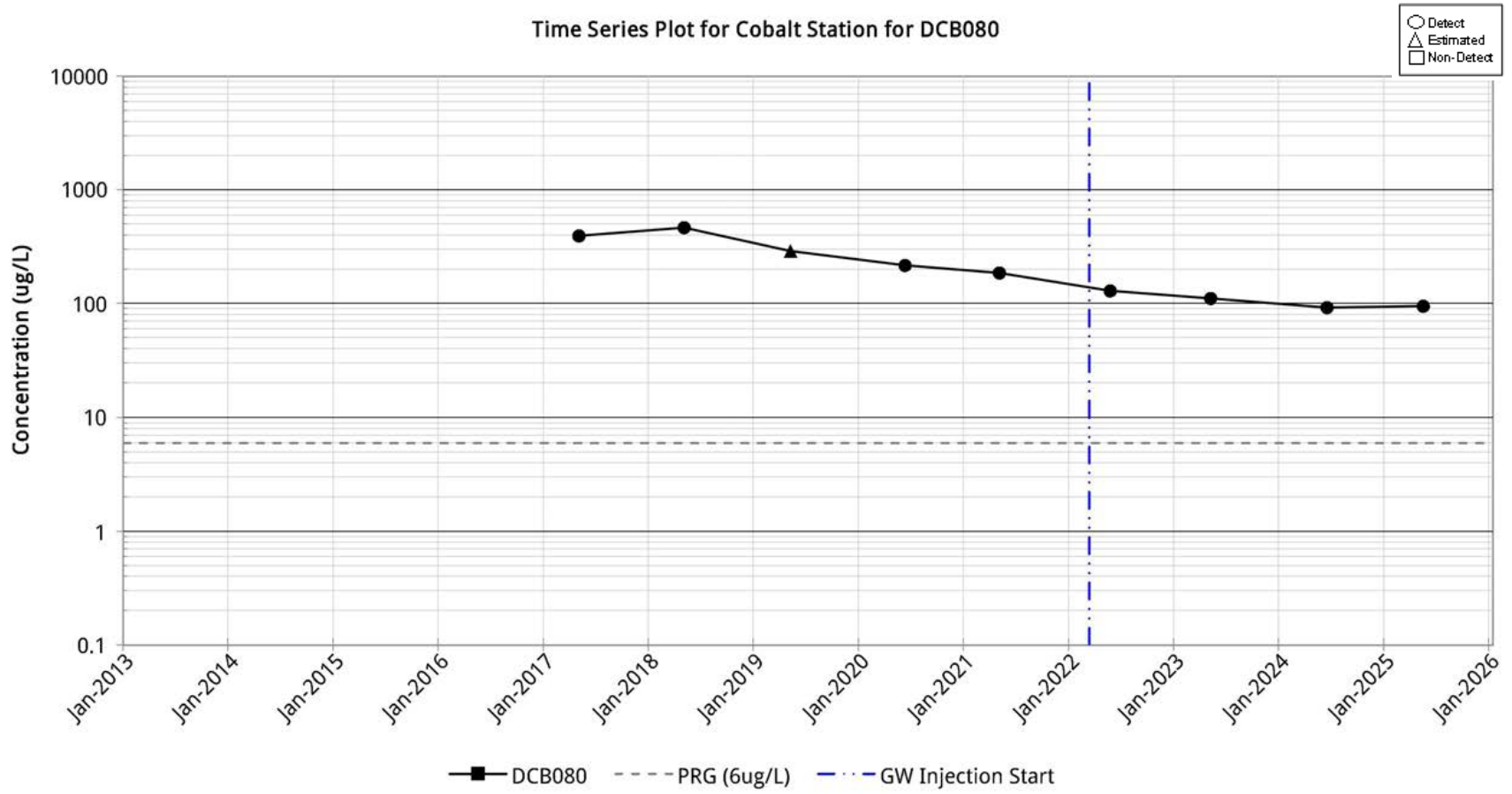

Time Series Plot for Cobalt Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
PRG (6ug/L)
GW Injection Start

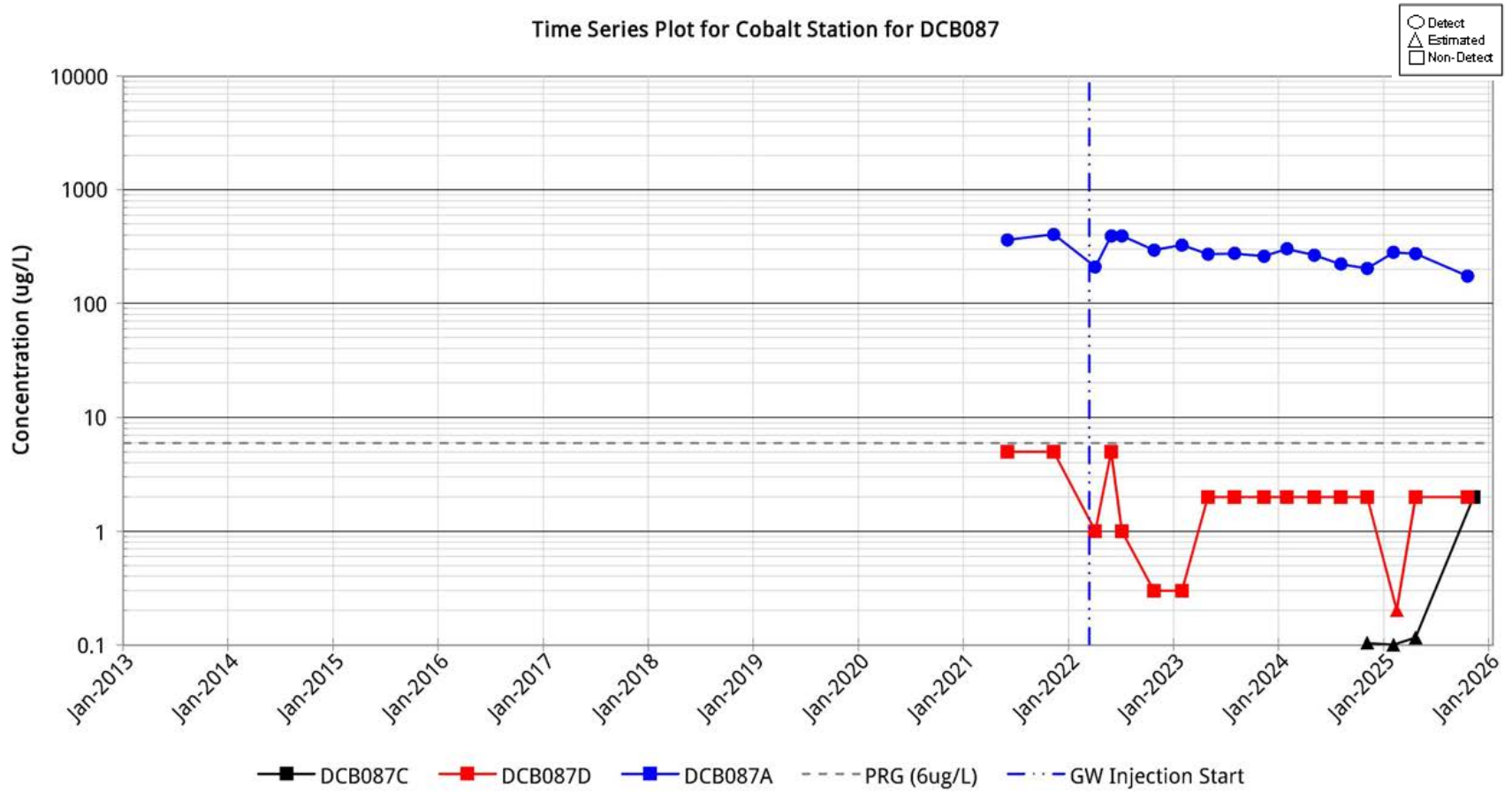

Time Series Plot for Cobalt Station for DCB077
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
PRG (6ug/L)
GW Injection Start

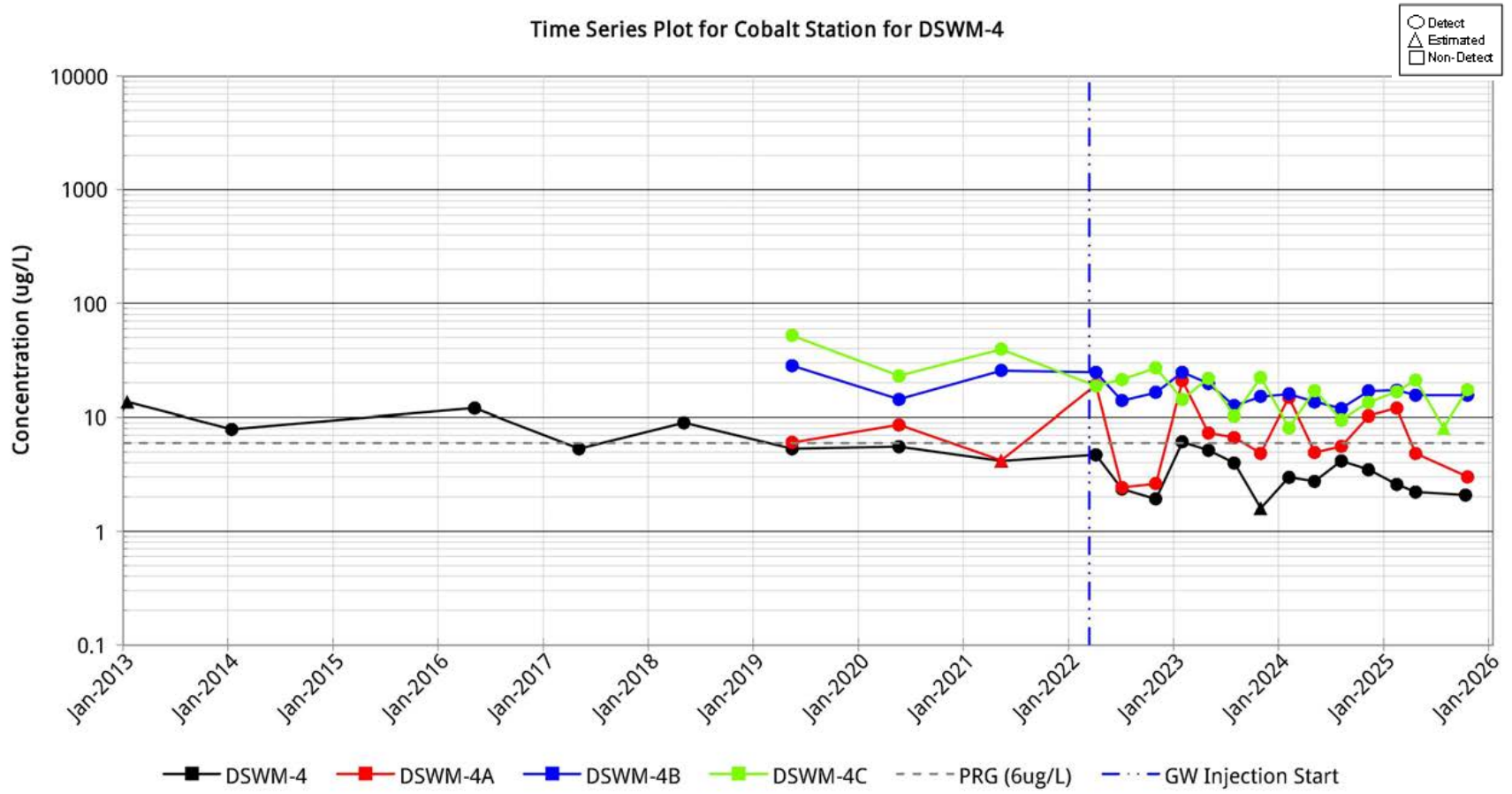


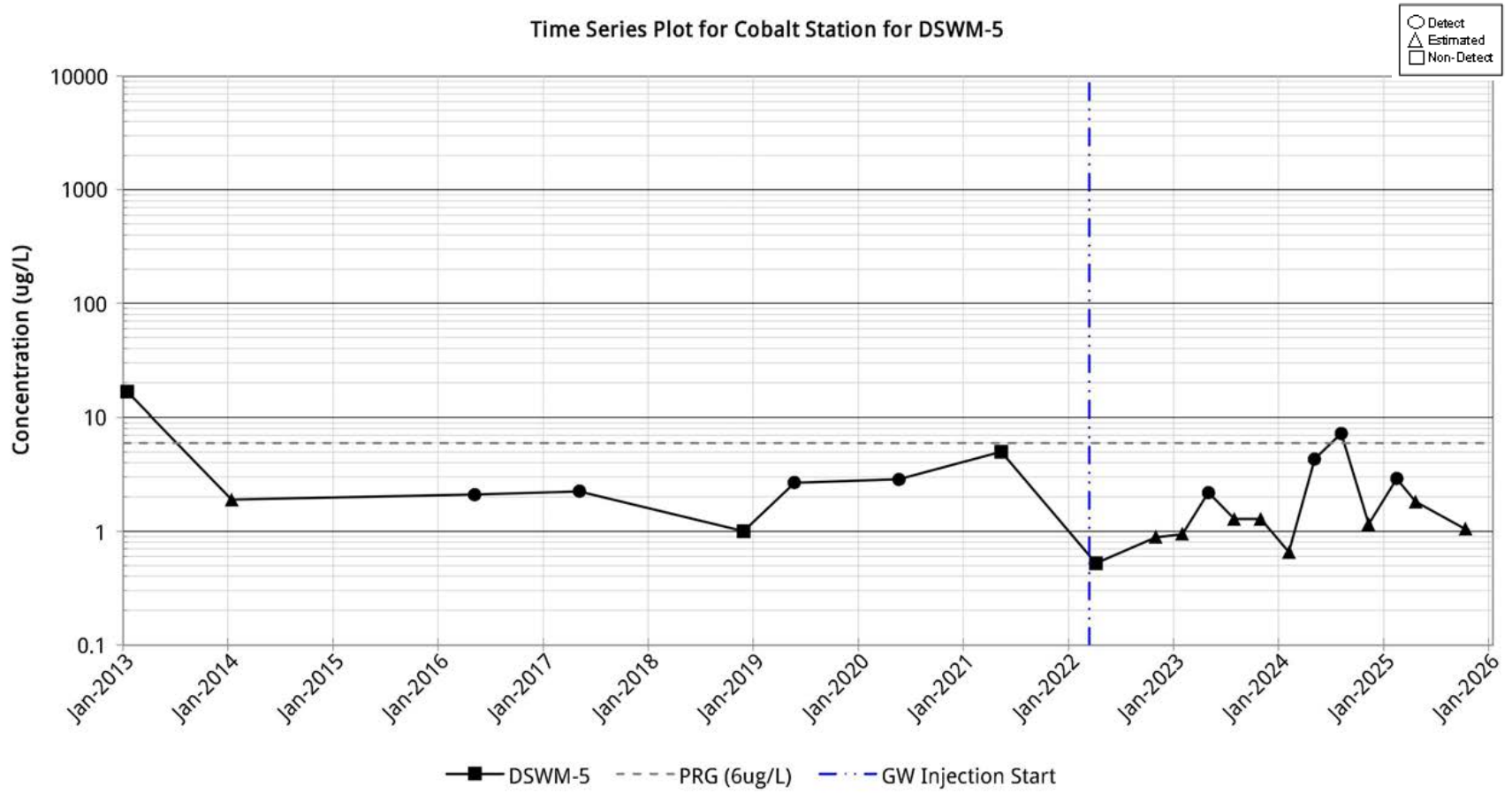
Note: Well DCB078 is a replacement well for DCB 47C

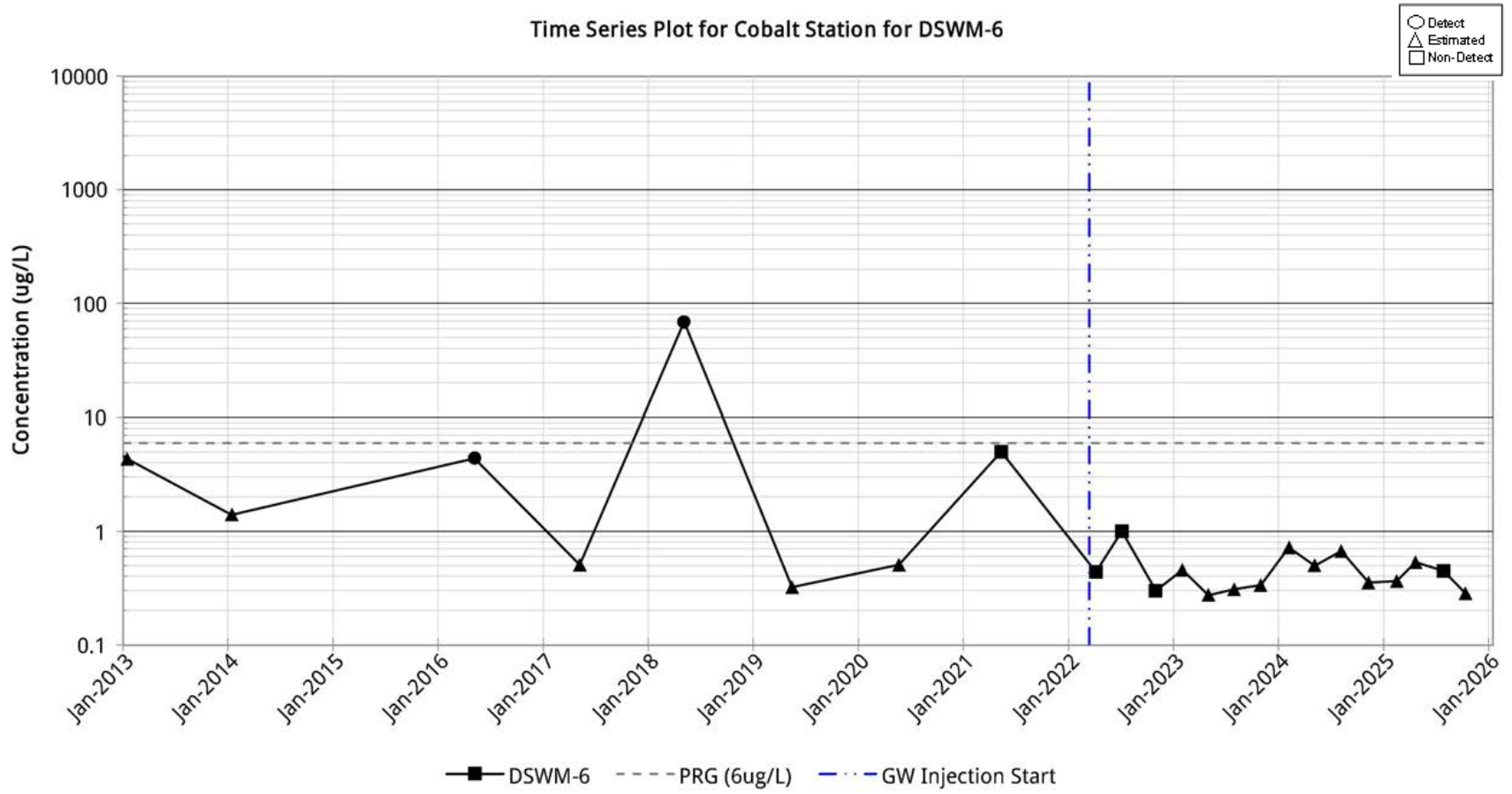

Time Series Plot for Cobalt Station for DCB079
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
PRG (6ug/L)
GW Injection Start

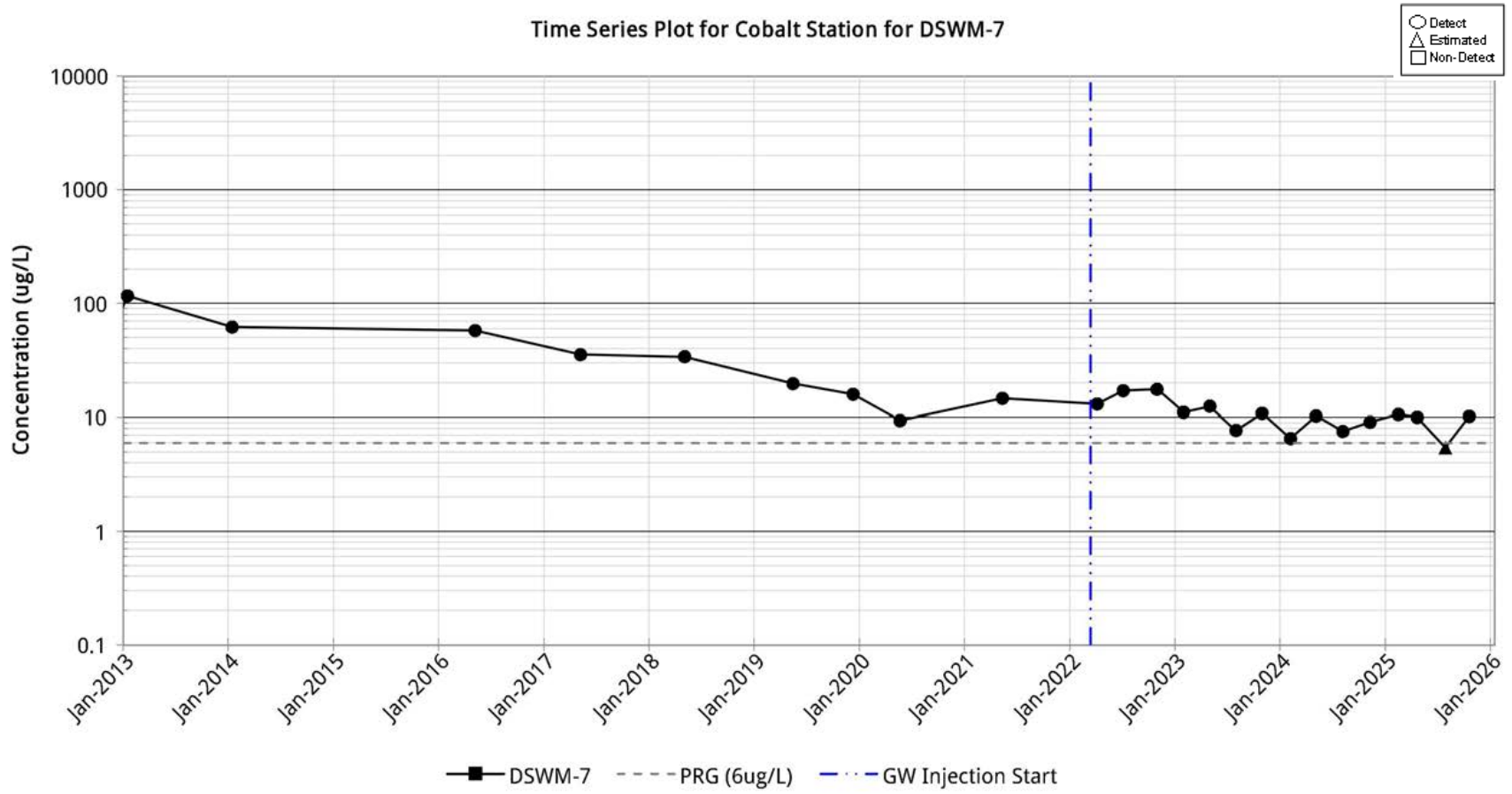

Time Series Plot for Cobalt Station for DCB080
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
PRG (6ug/L)
GW Injection Start

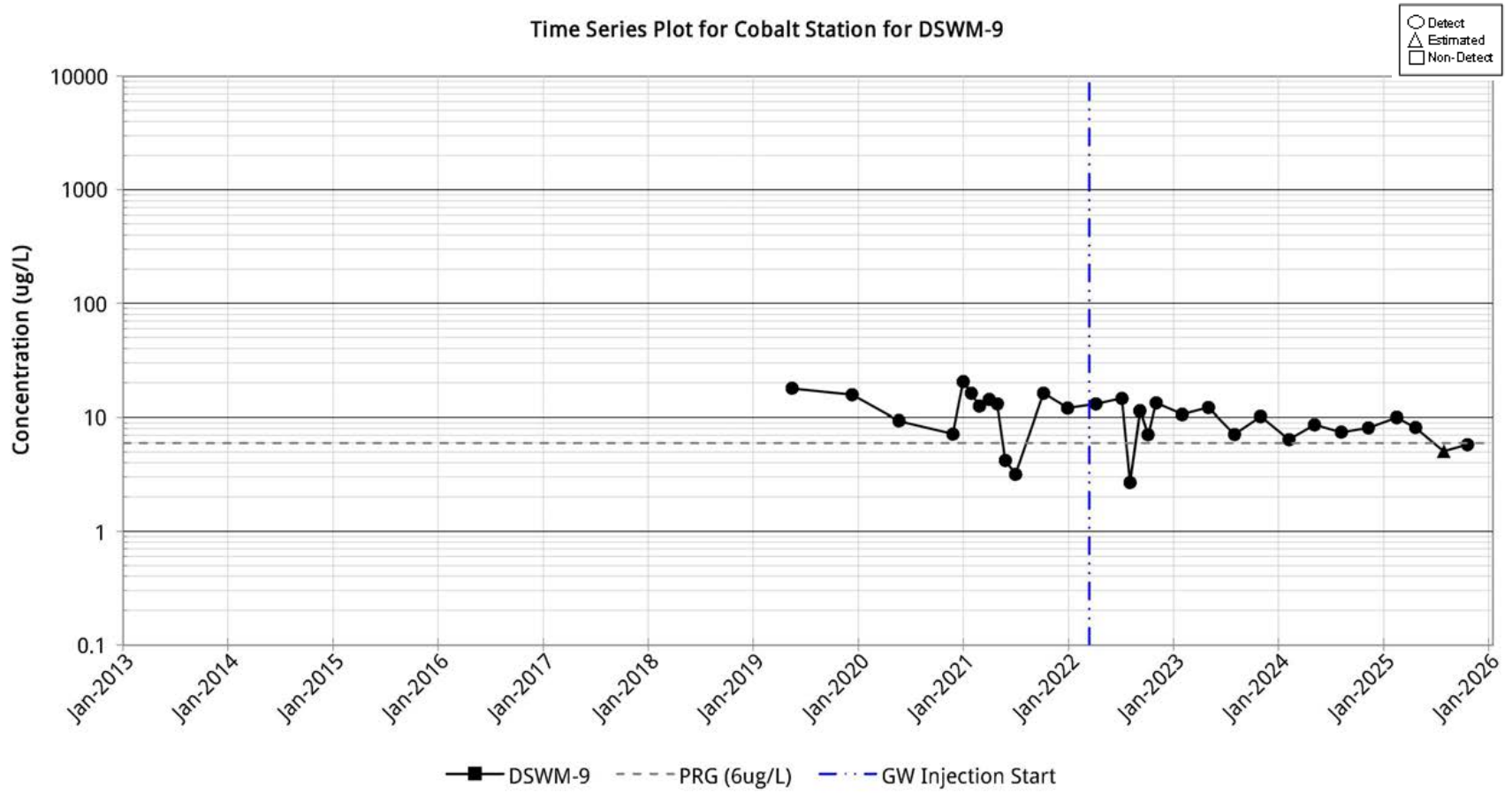

Time Series Plot for Cobalt Station for DCB087
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
PRG (6ug/L)
GW Injection Start

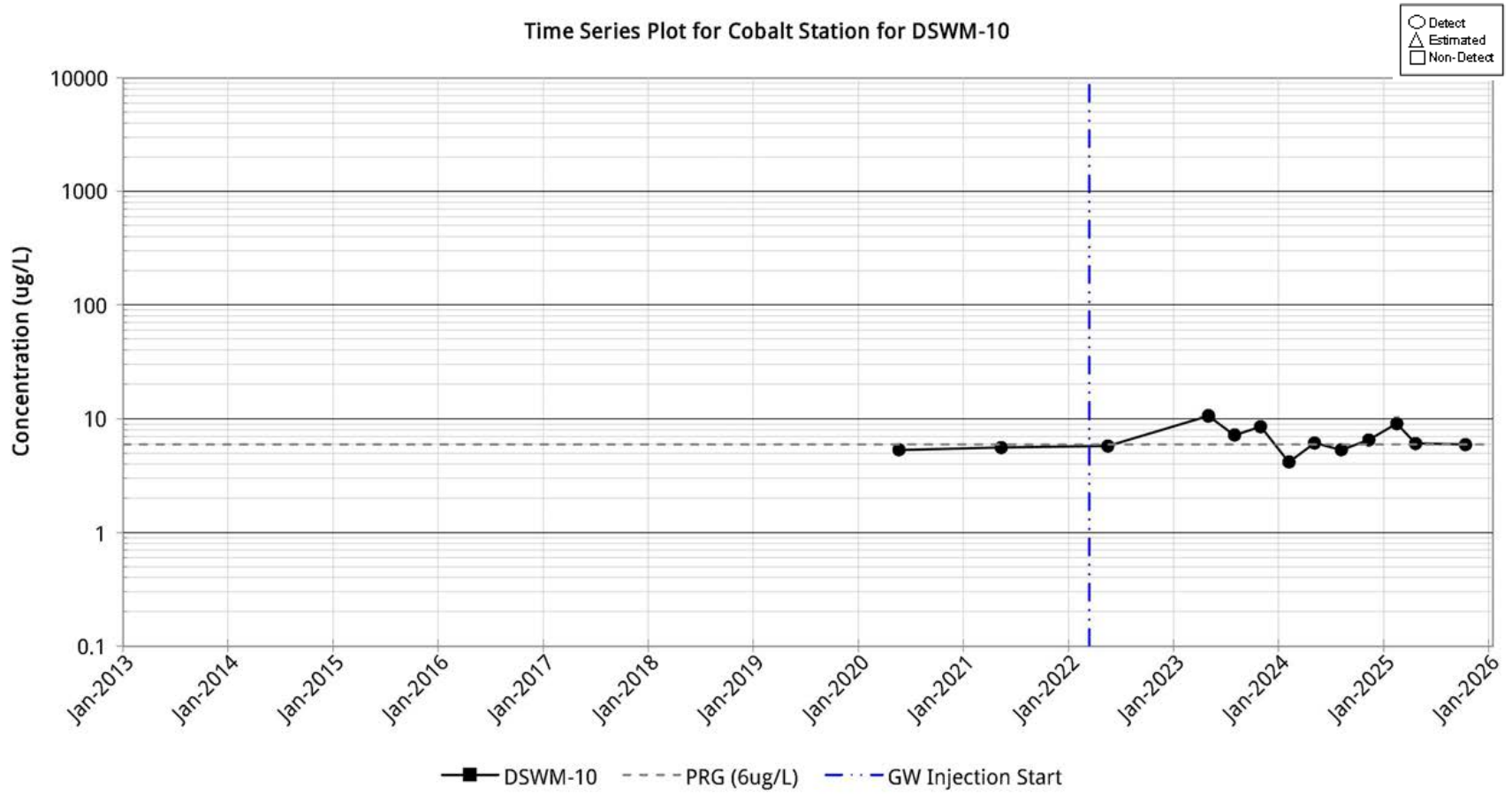

Time Series Plot for Cobalt Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
PRG (6ug/L)
GW Injection Start

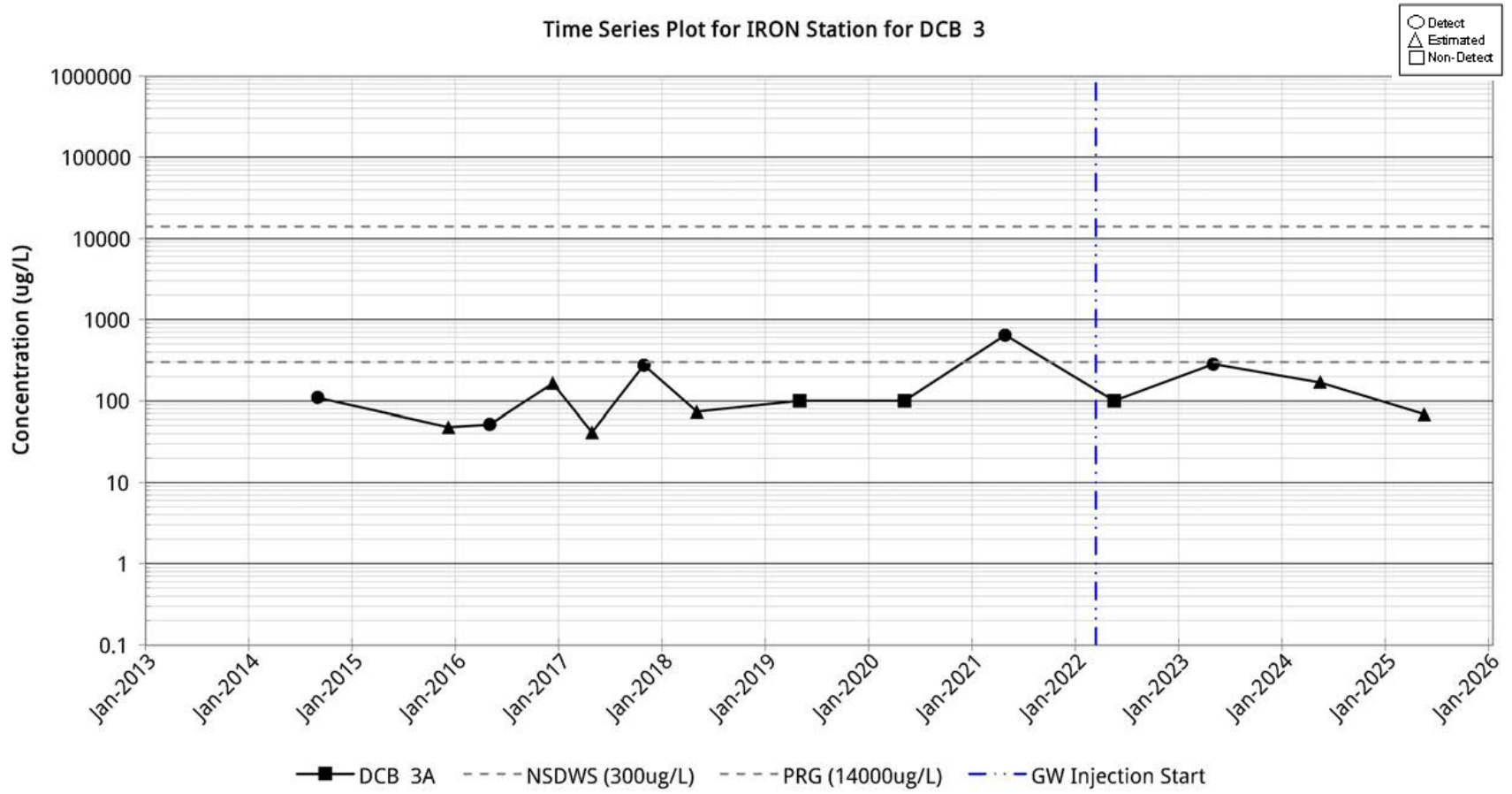

Time Series Plot for Cobalt Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
PRG (6ug/L)
GW Injection Start

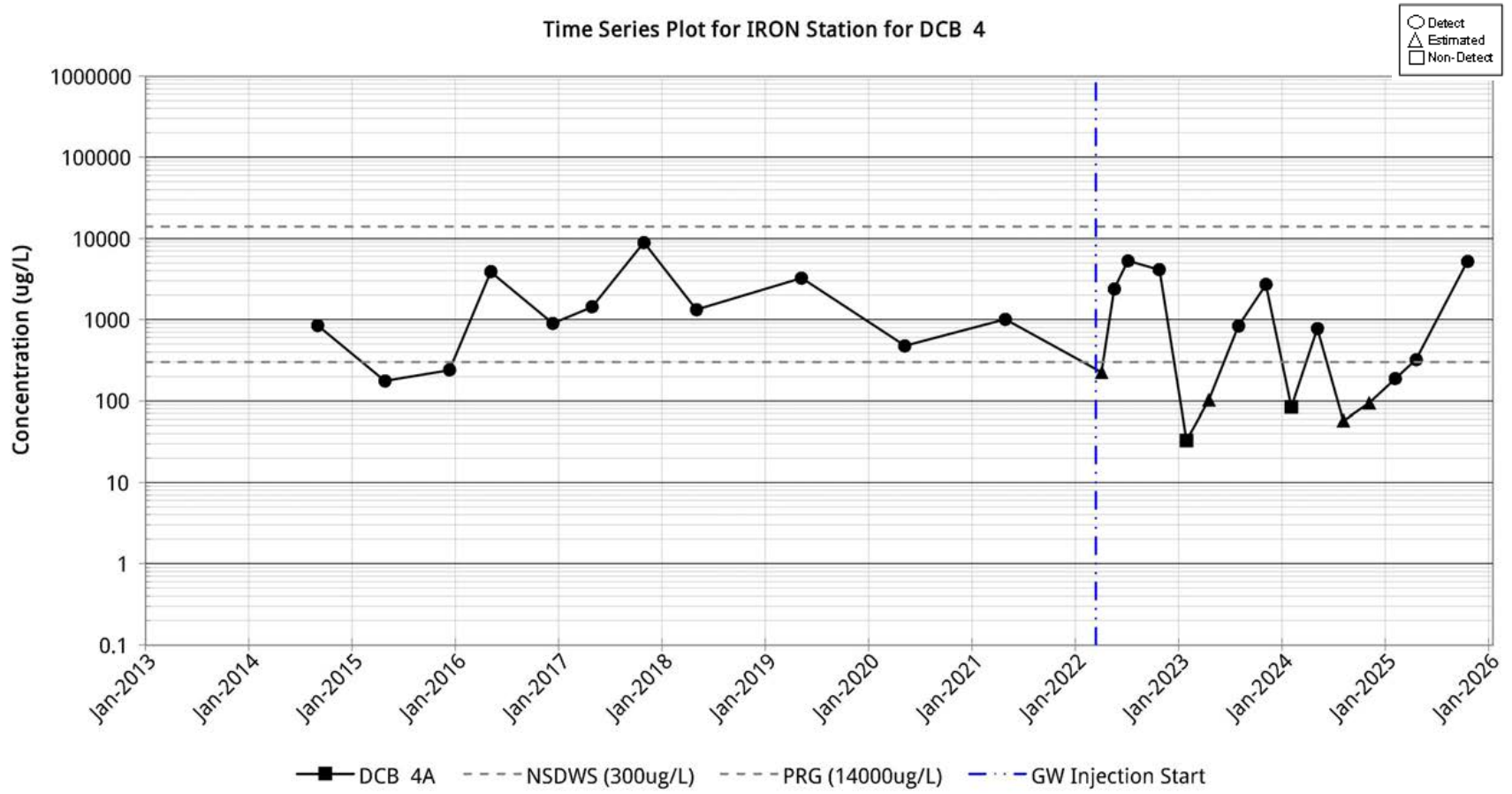

Time Series Plot for Cobalt Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
PRG (6ug/L)
GW Injection Start

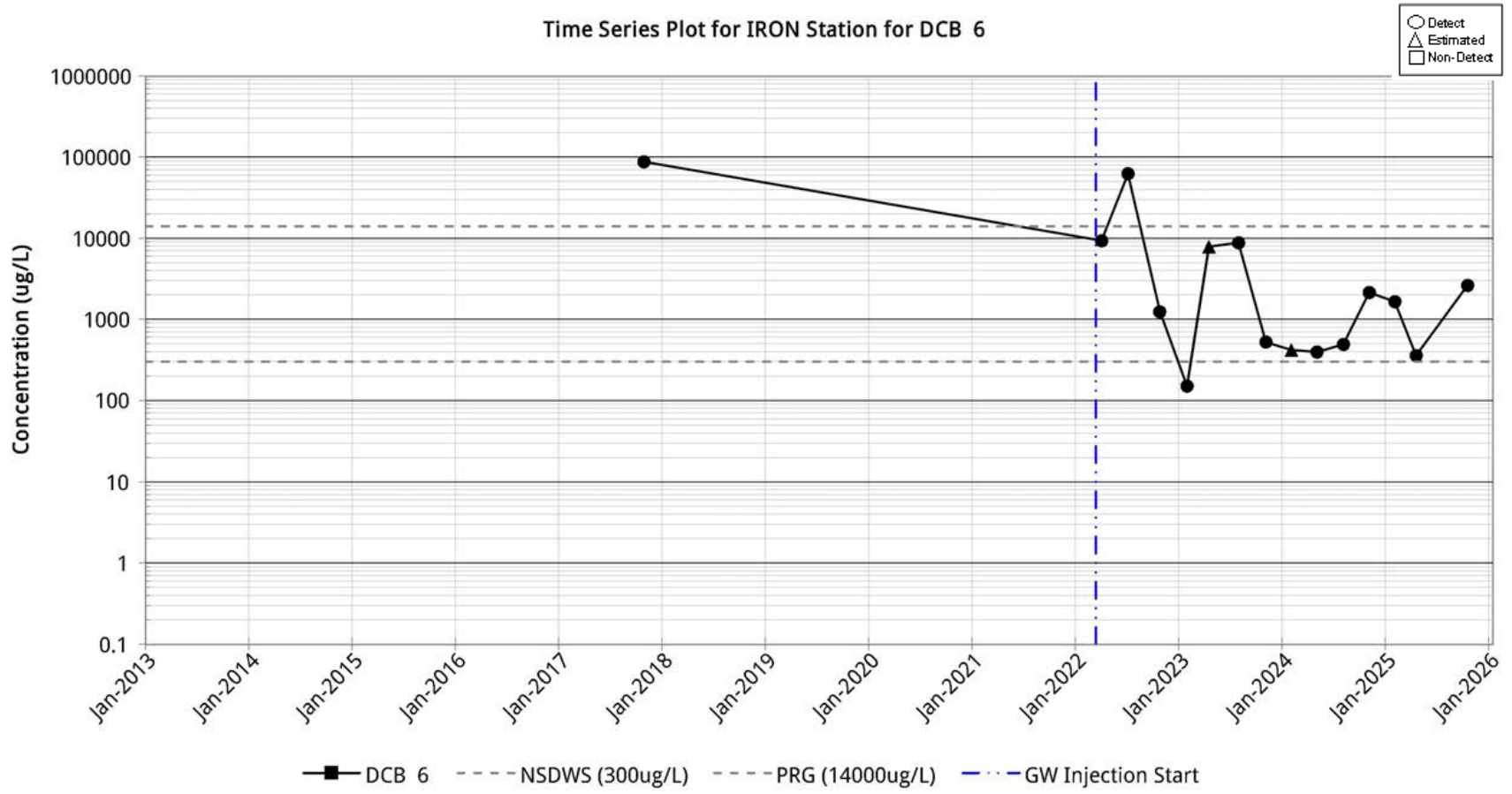

Time Series Plot for Cobalt Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
PRG (6ug/L)
GW Injection Start

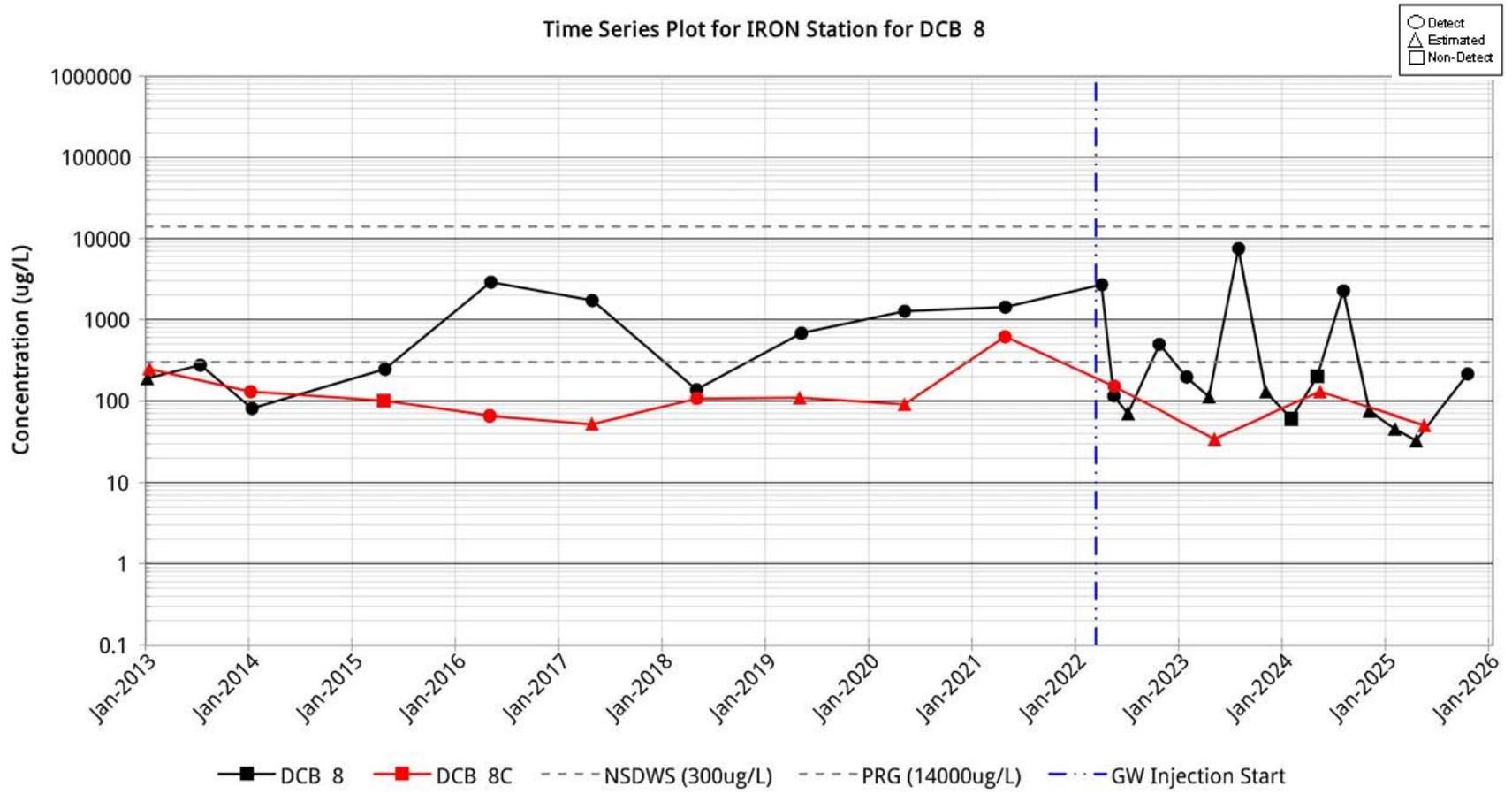

Time Series Plot for Cobalt Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
PRG (6ug/L)
GW Injection Start

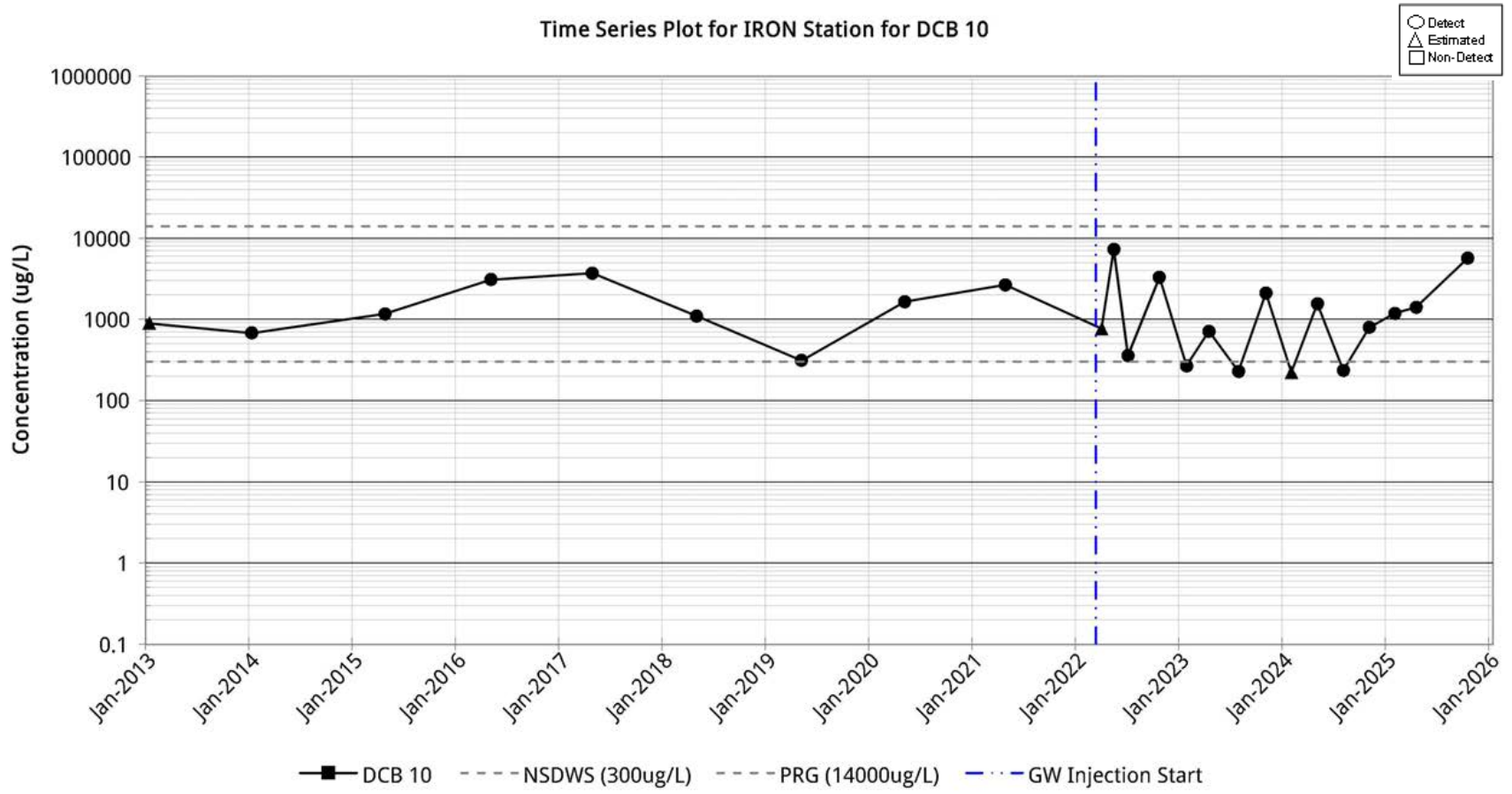

Time Series Plot for Cobalt Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
PRG (6ug/L)
GW Injection Start

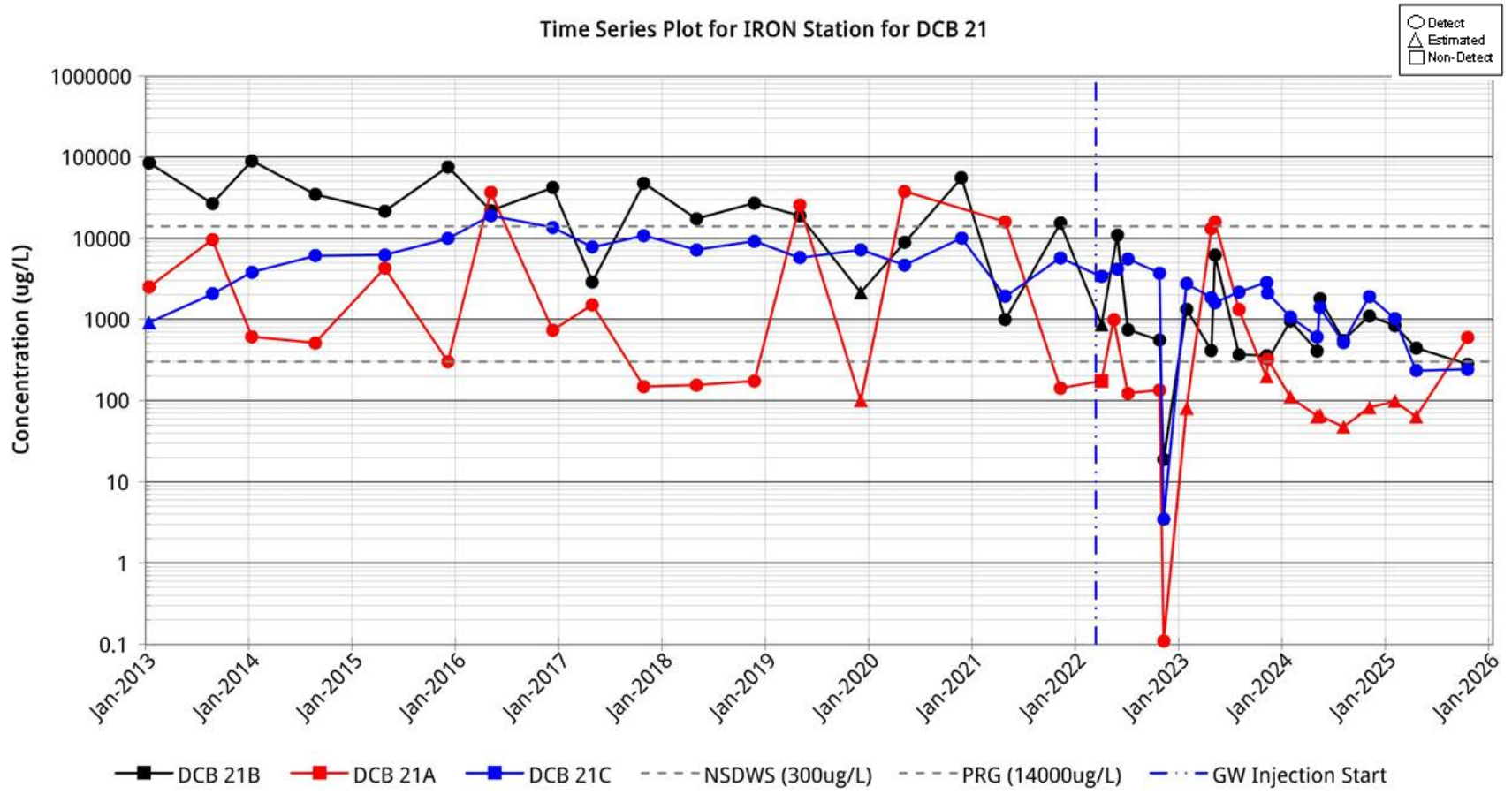

Time Series Plot for IRON Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

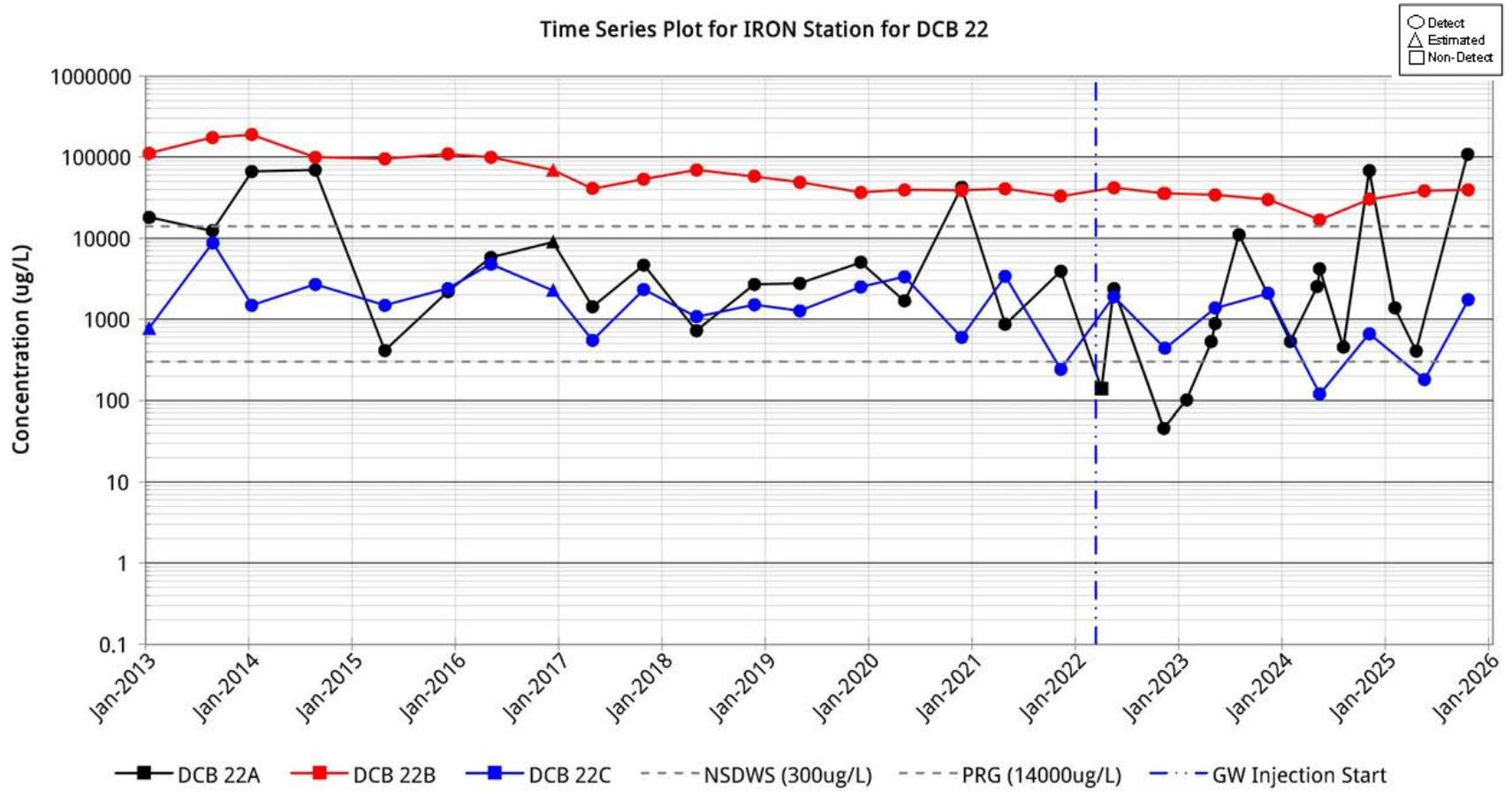

Time Series Plot for IRON Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

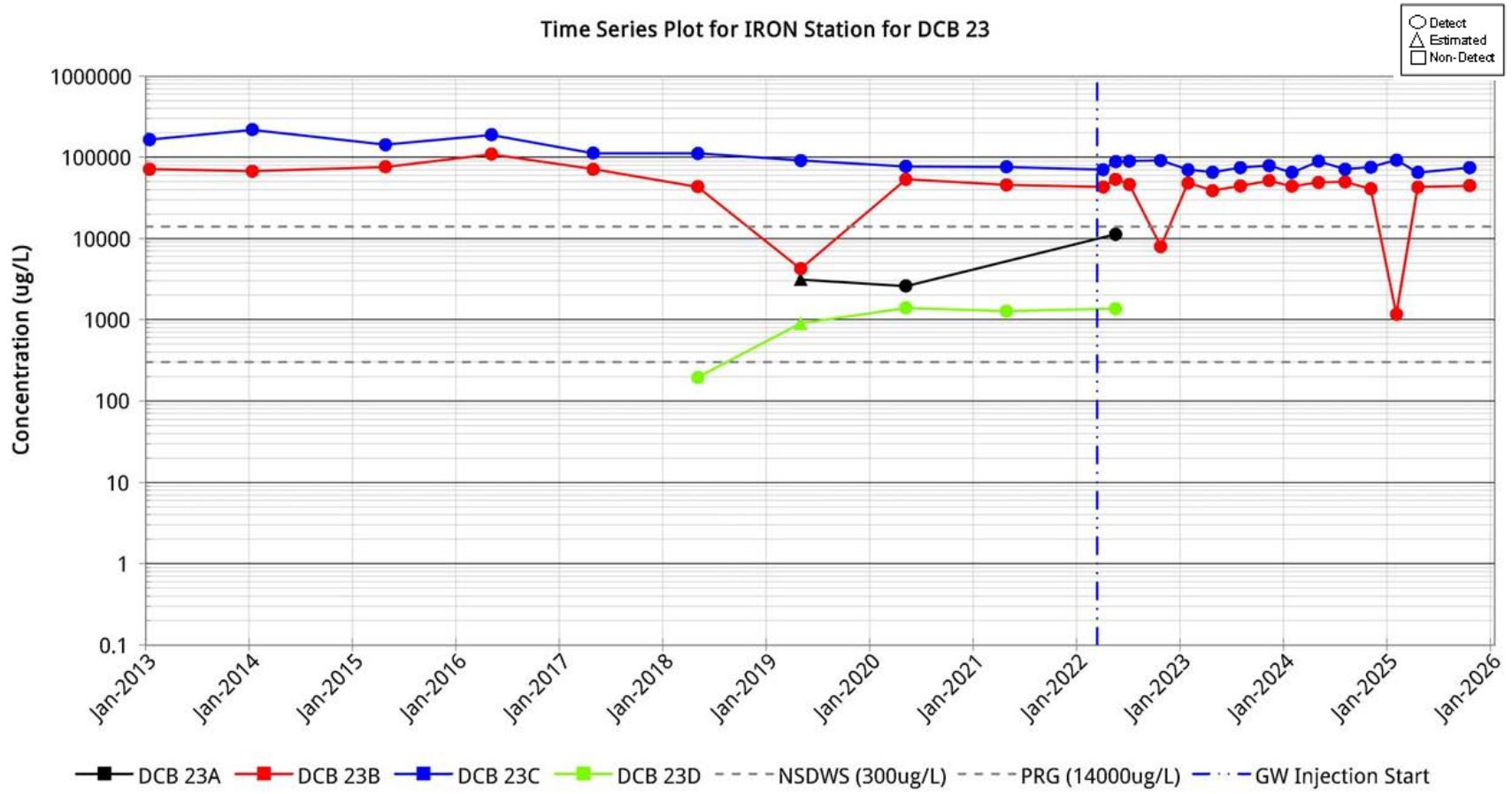

Time Series Plot for IRON Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

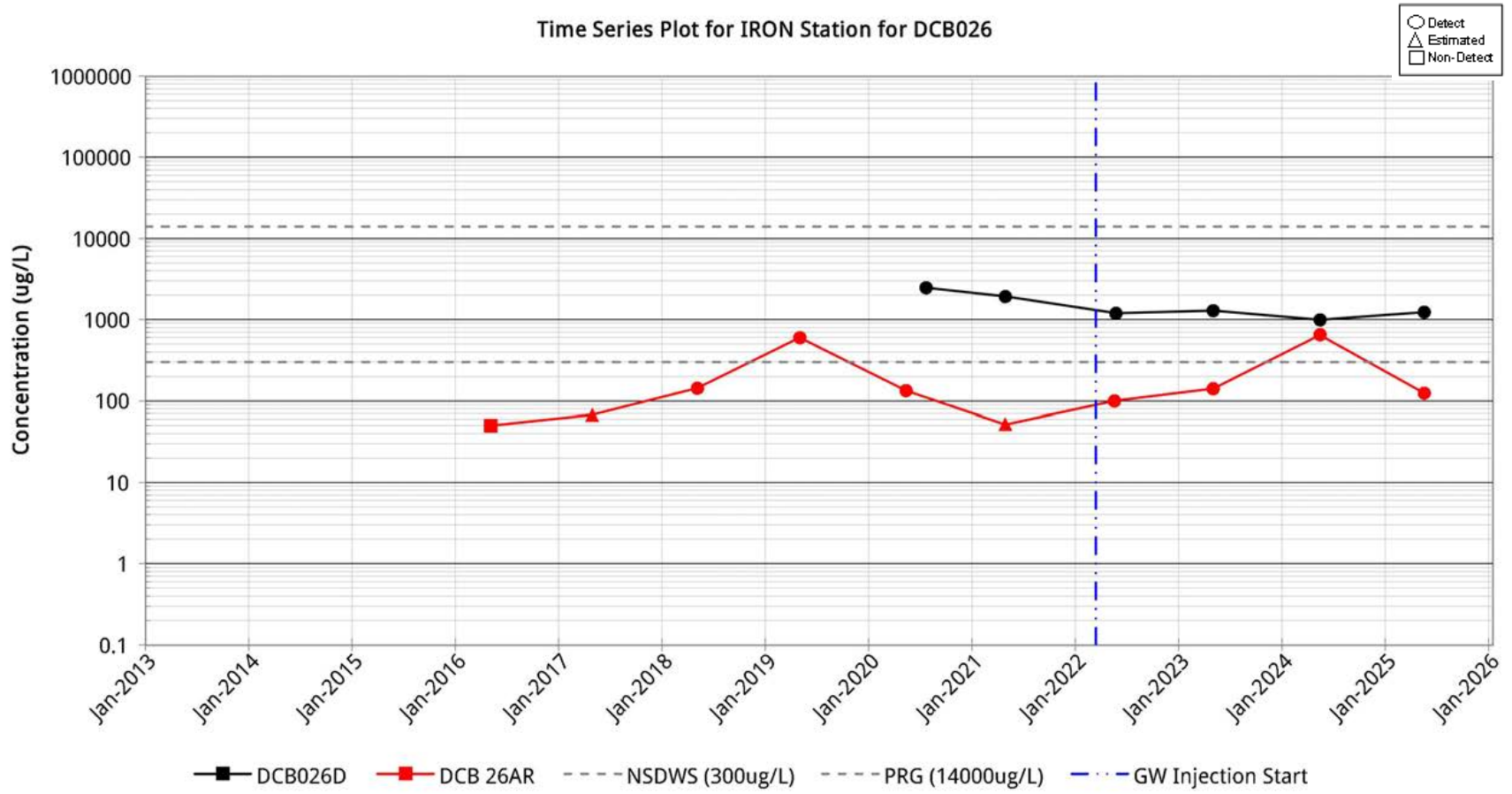

Time Series Plot for IRON Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

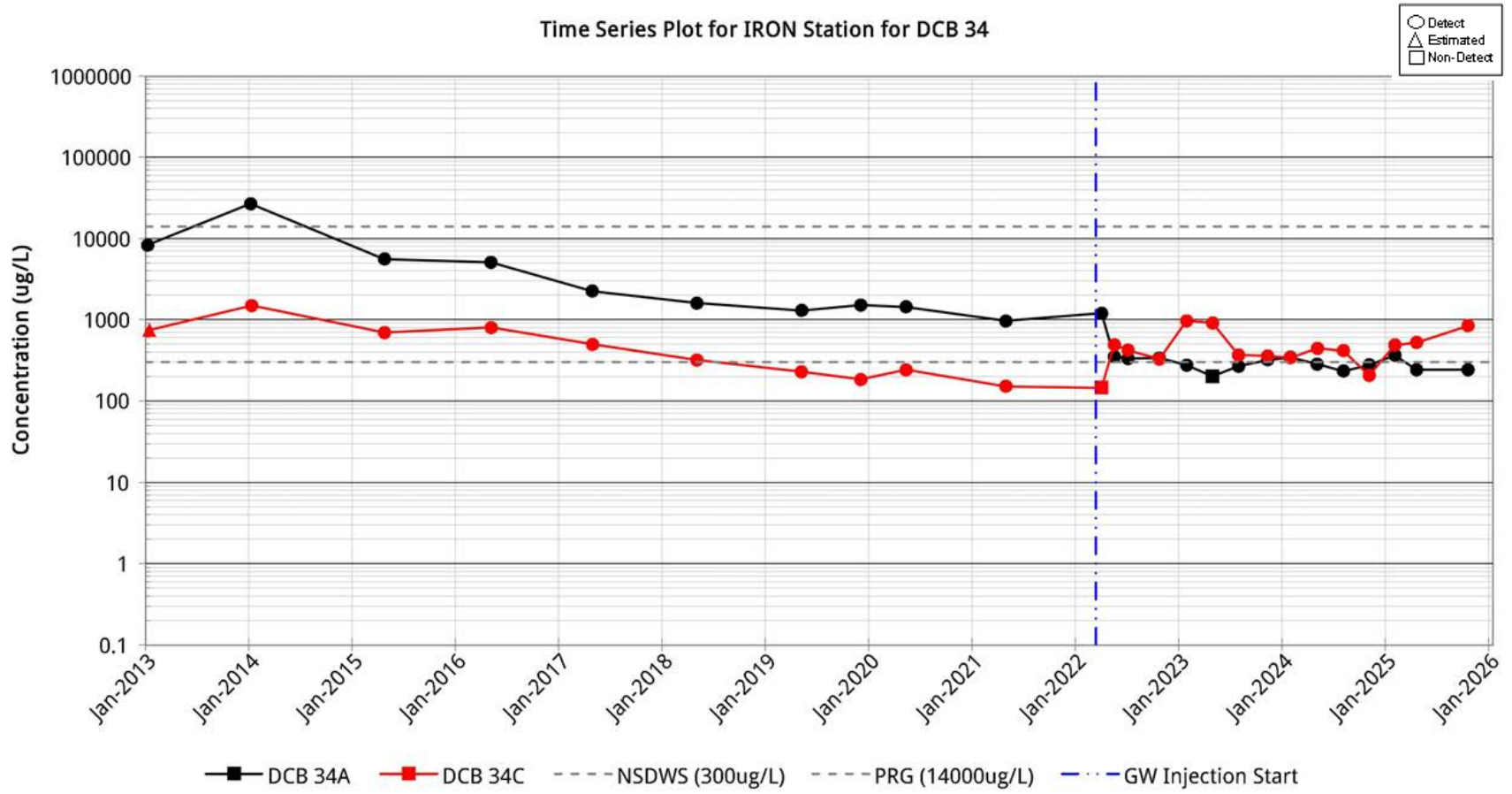

Time Series Plot for IRON Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

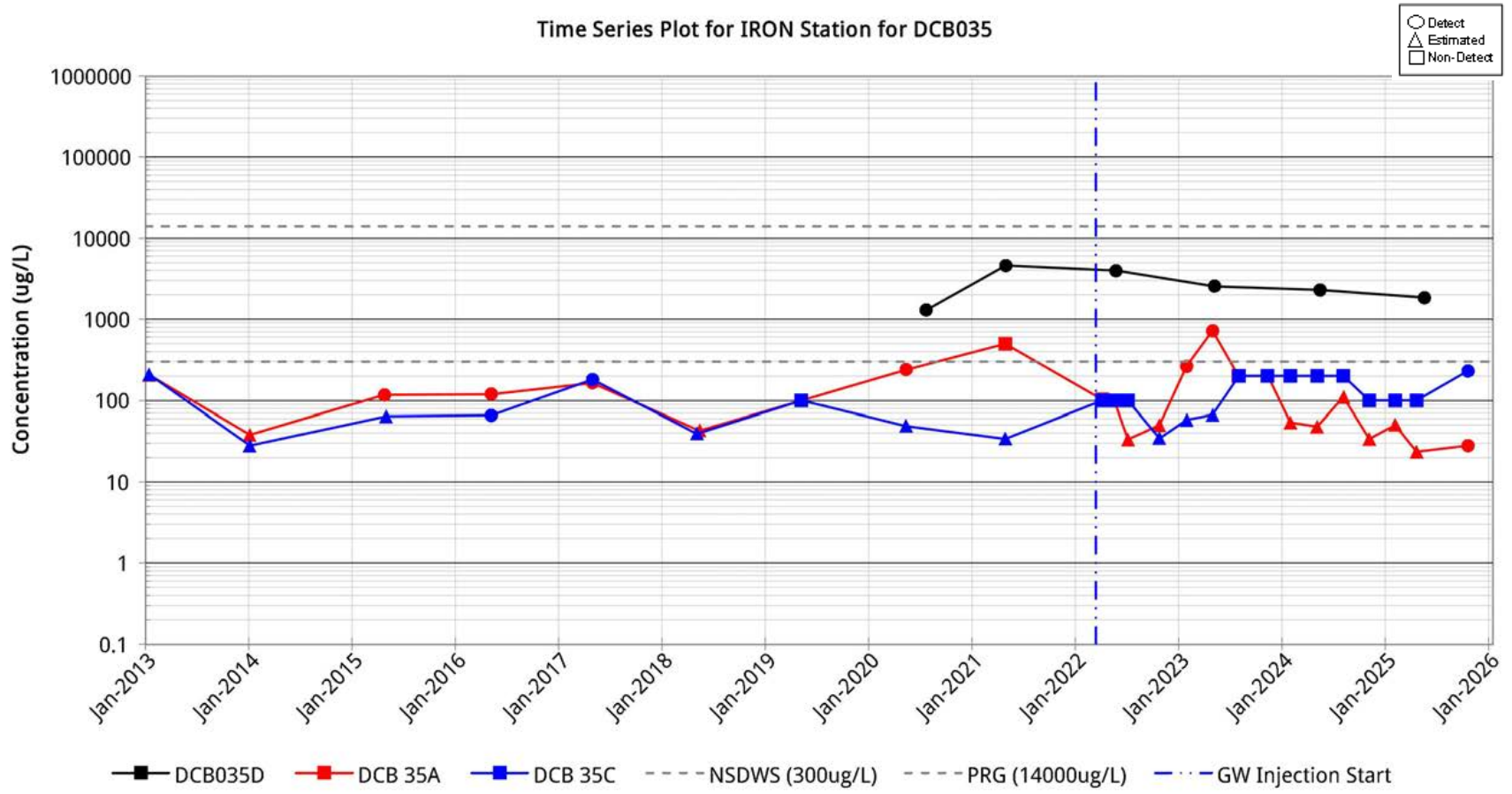

Time Series Plot for IRON Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

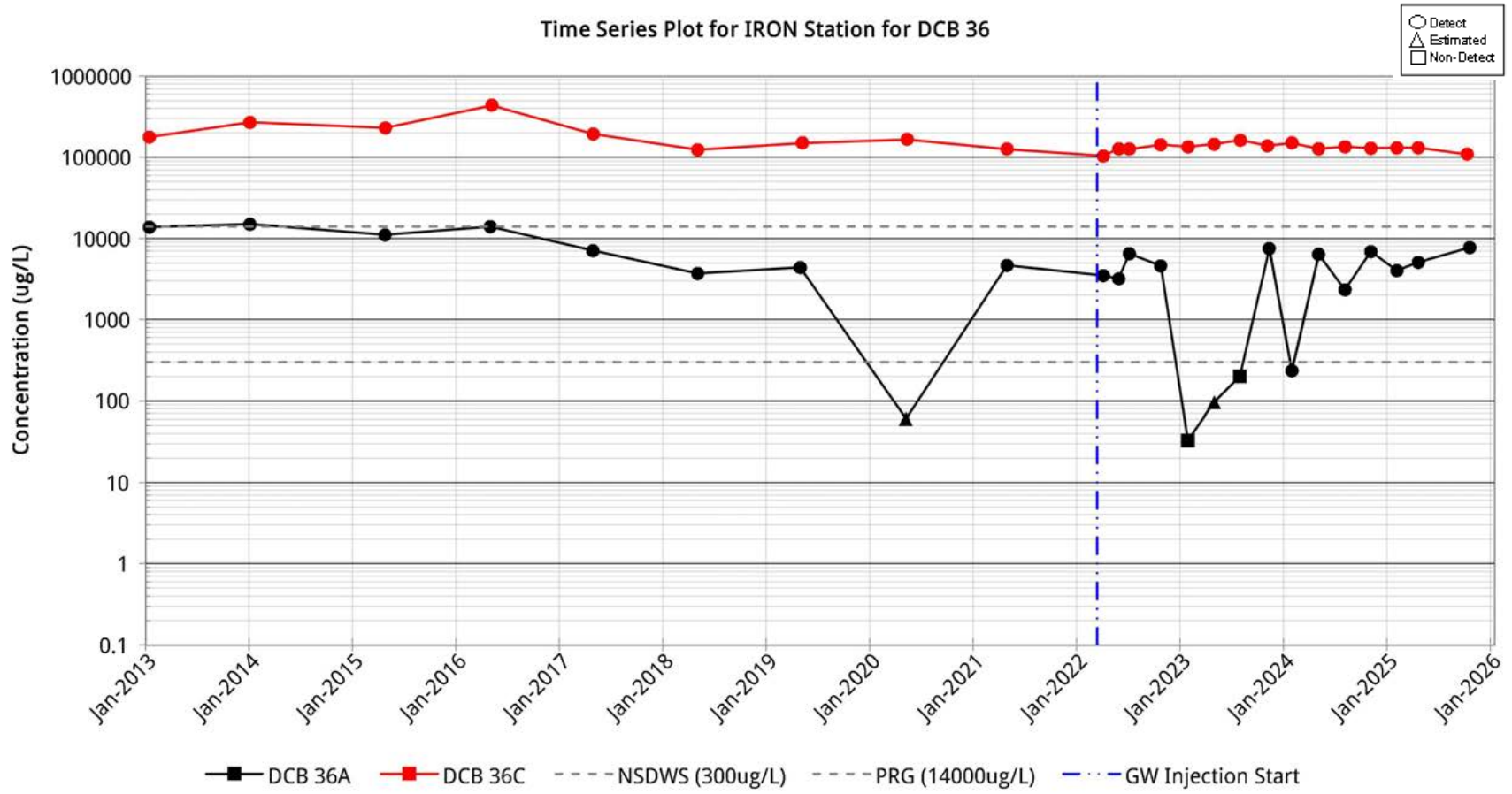

Time Series Plot for IRON Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

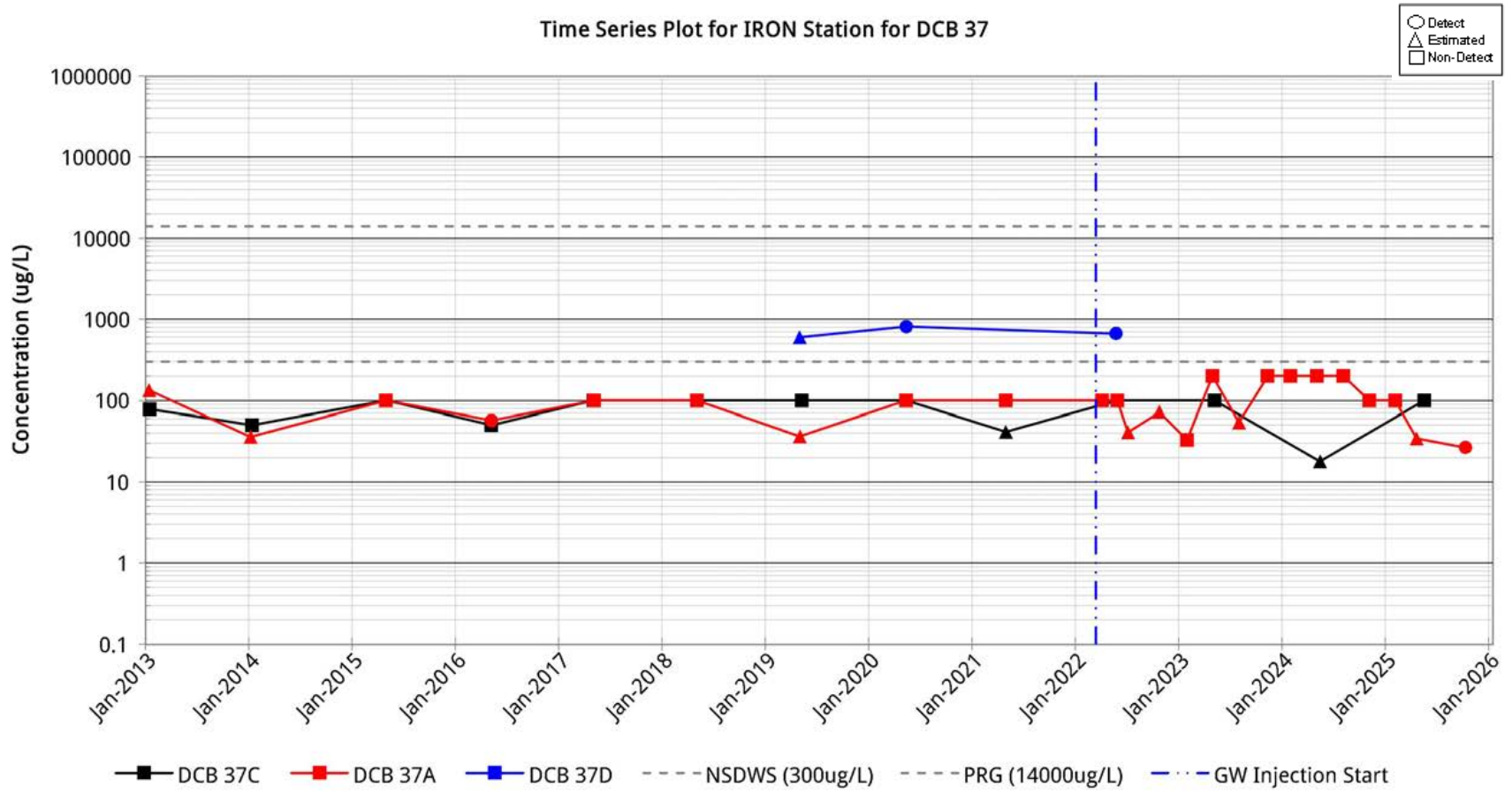

Time Series Plot for IRON Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

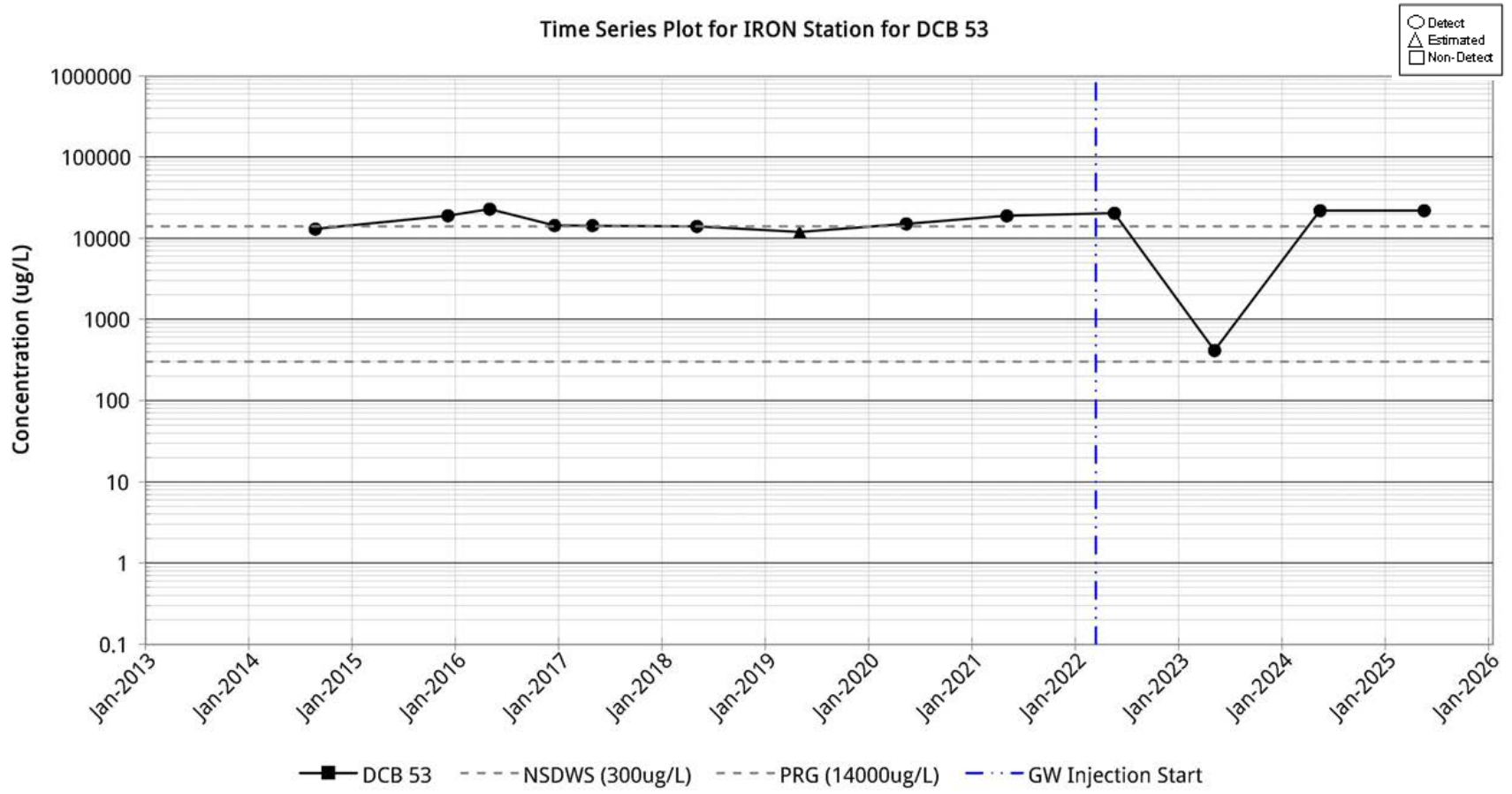

Time Series Plot for IRON Station for DCB026
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

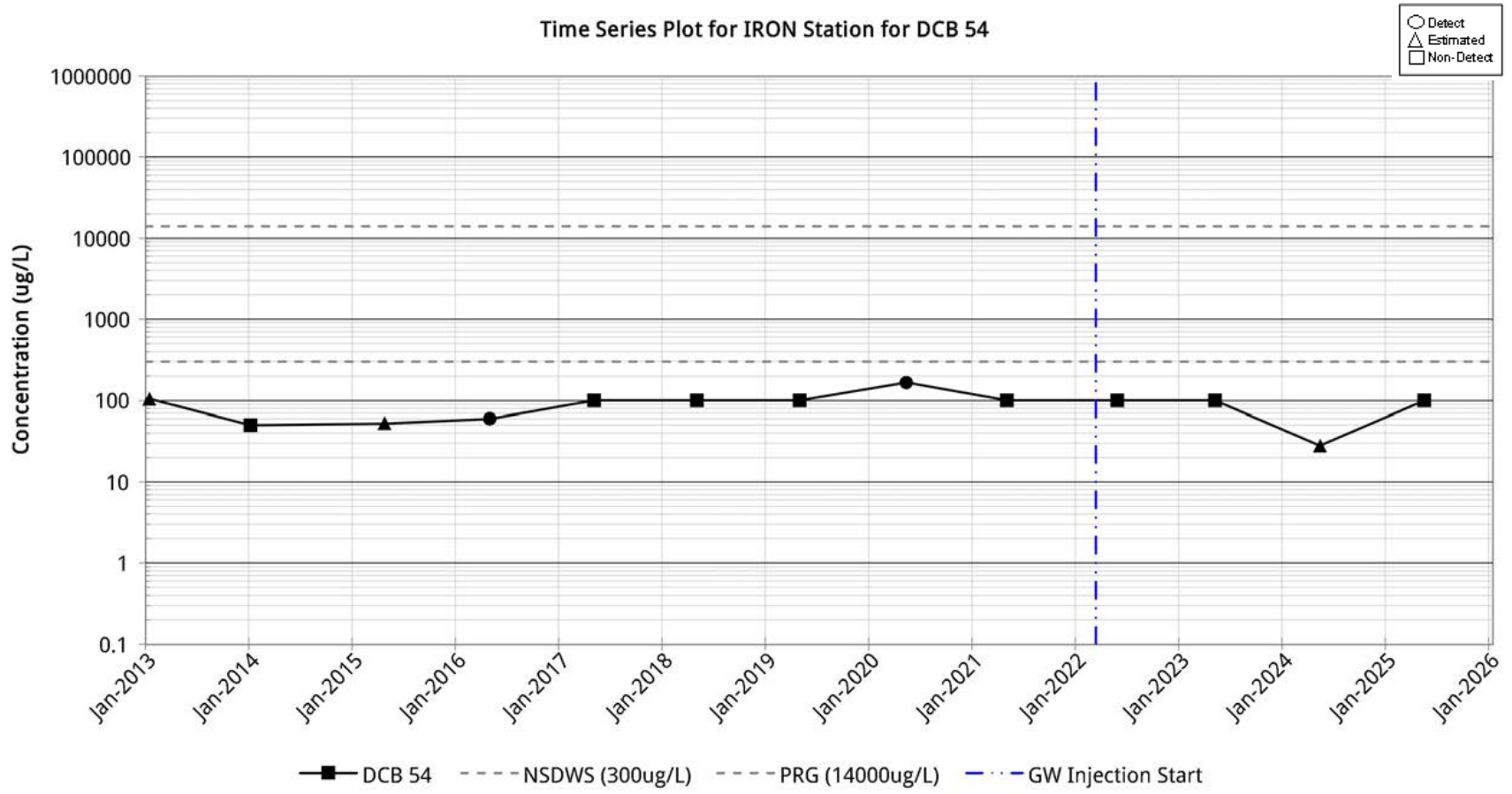

Time Series Plot for IRON Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

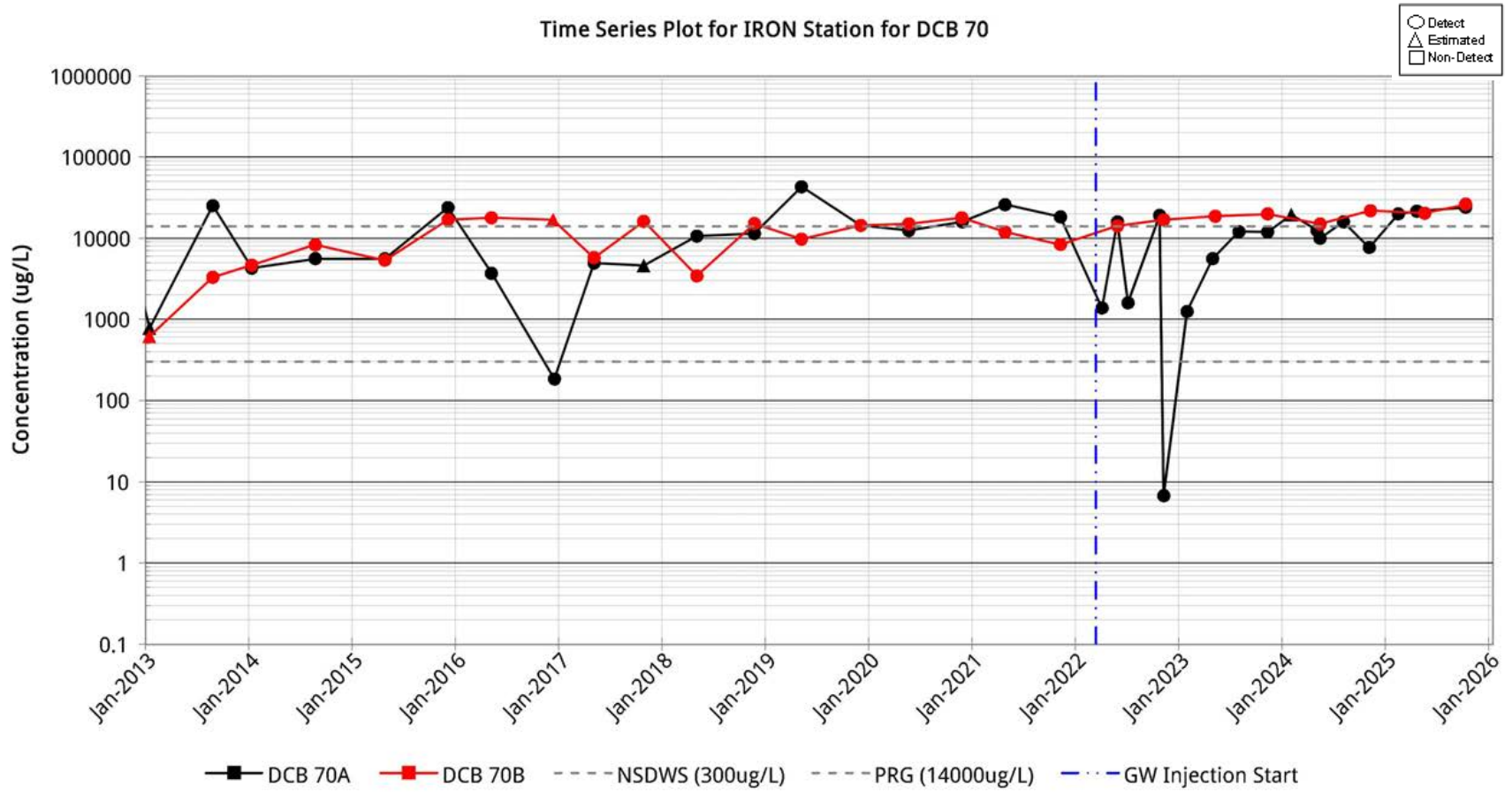

Time Series Plot for IRON Station for DCB035
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

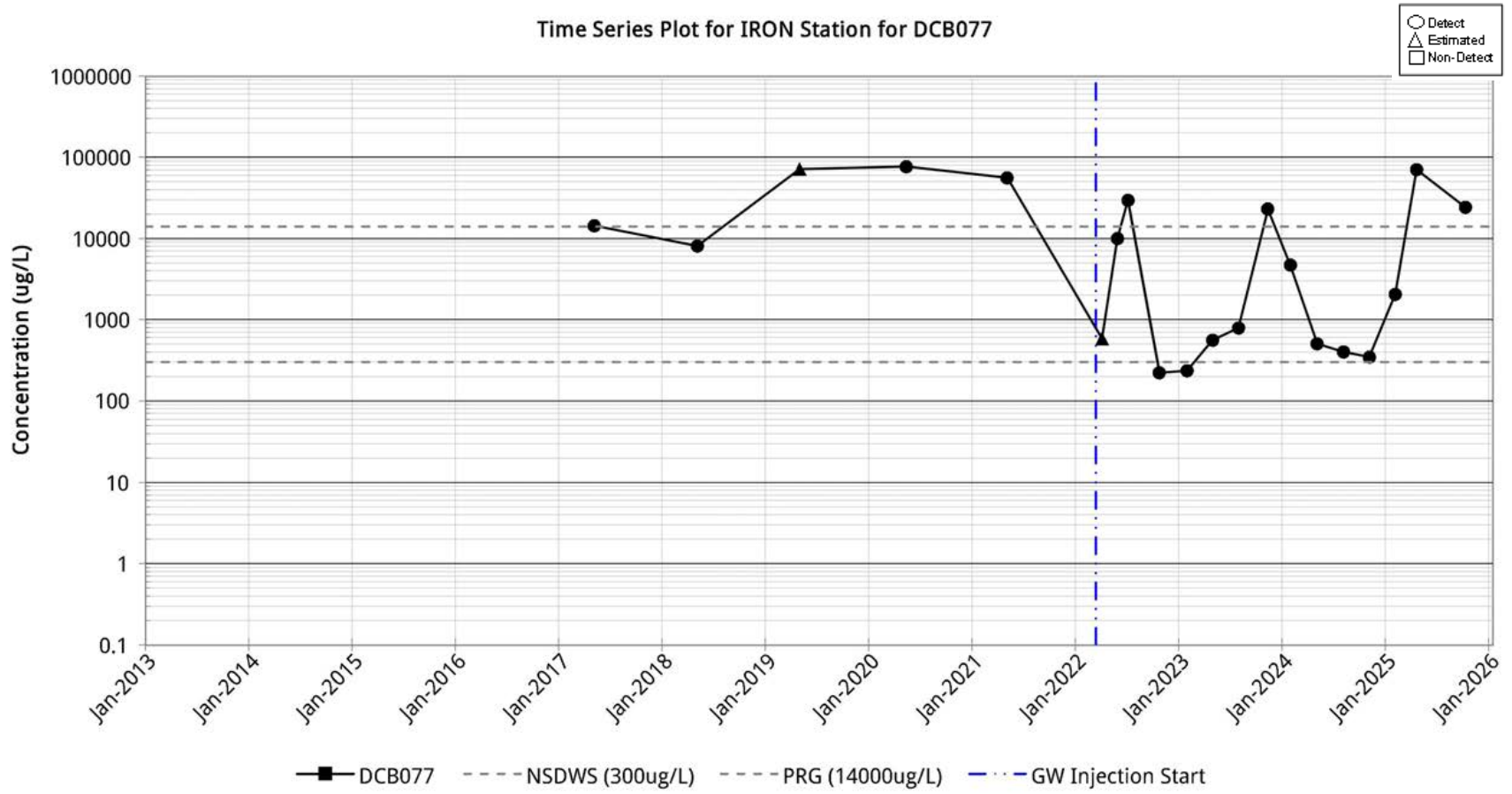

Time Series Plot for IRON Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

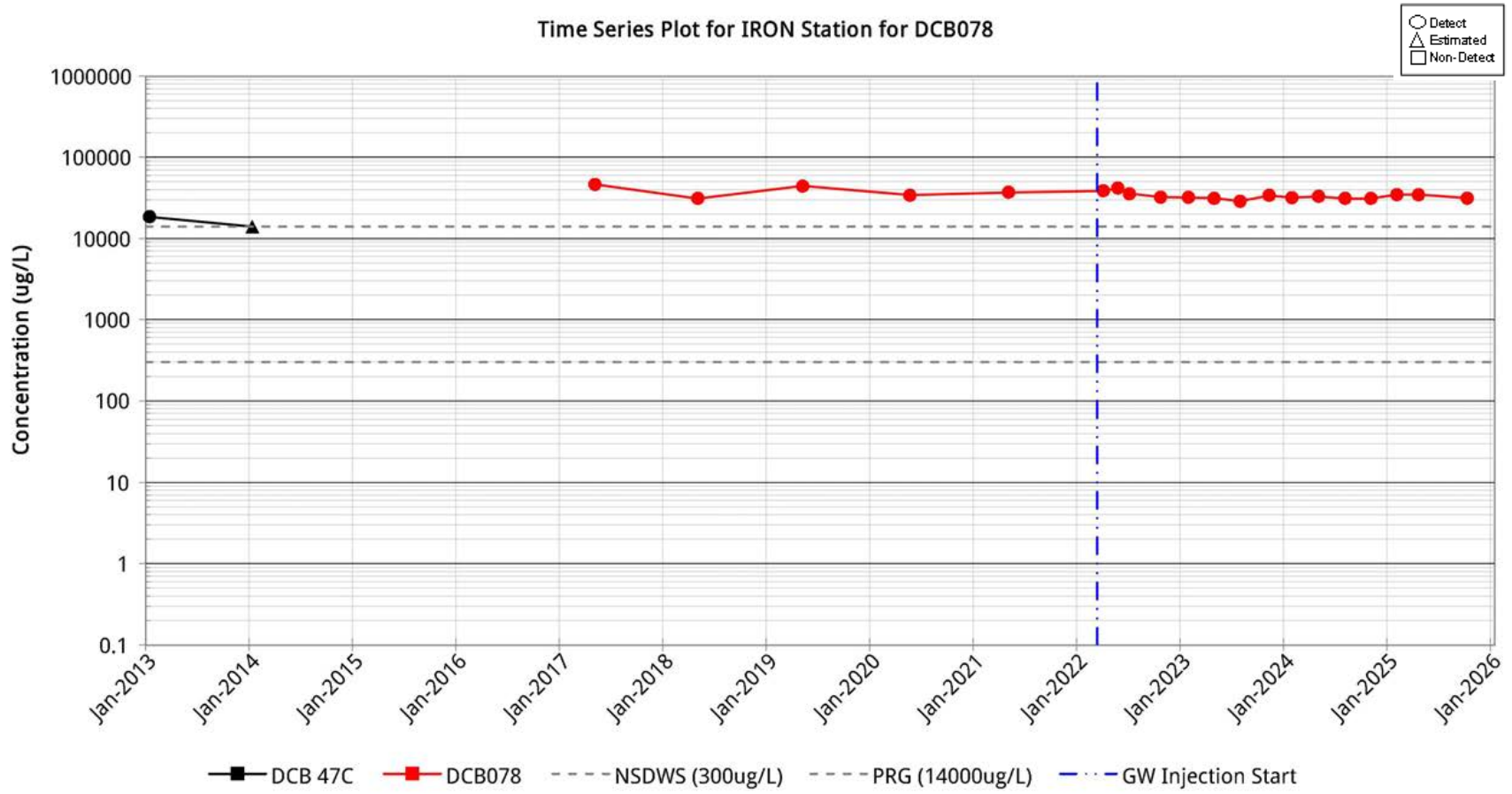

Time Series Plot for IRON Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
DCB 37D
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start


Time Series Plot for IRON Station for DCB 53
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

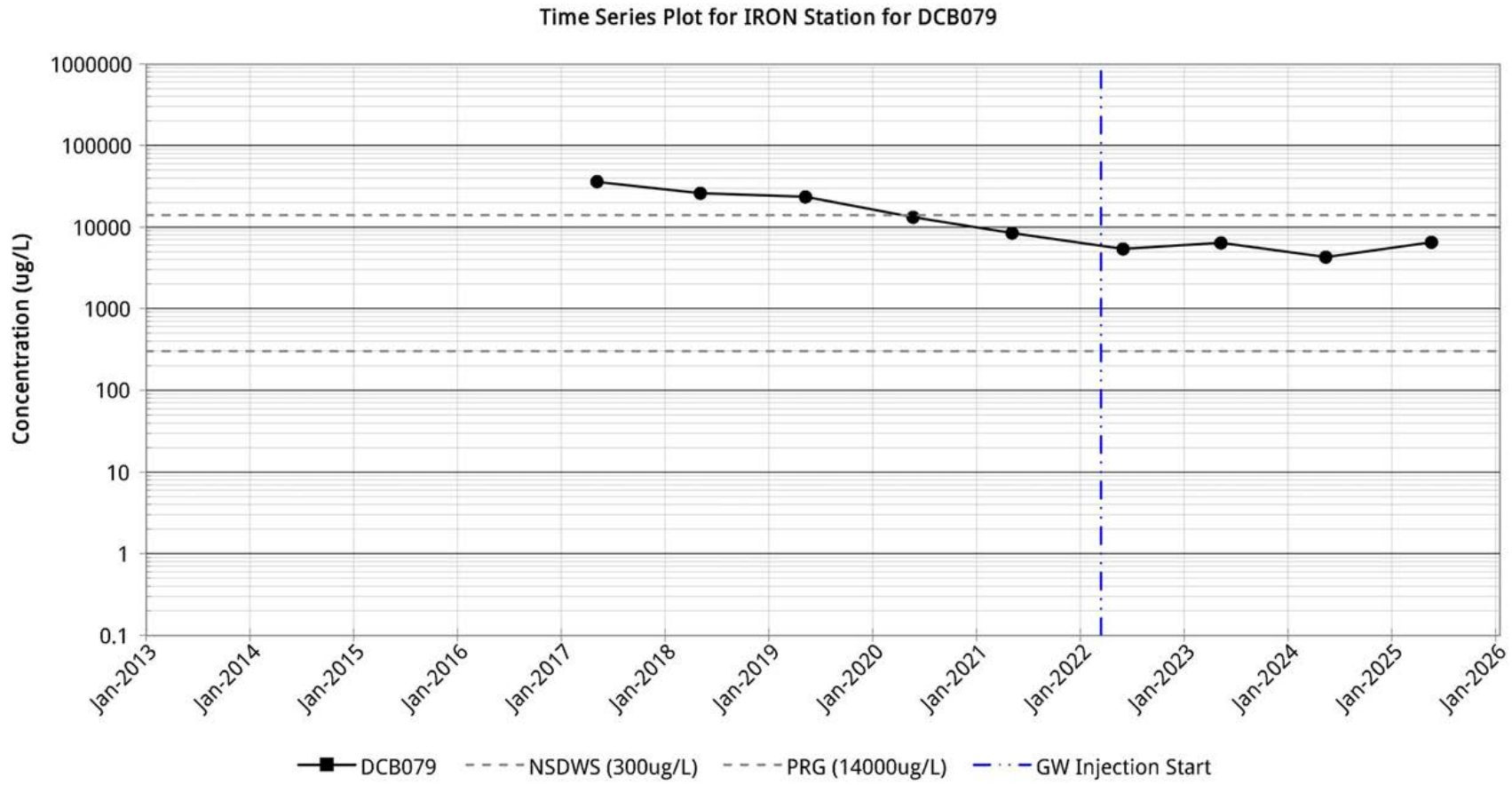

Time Series Plot for IRON Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

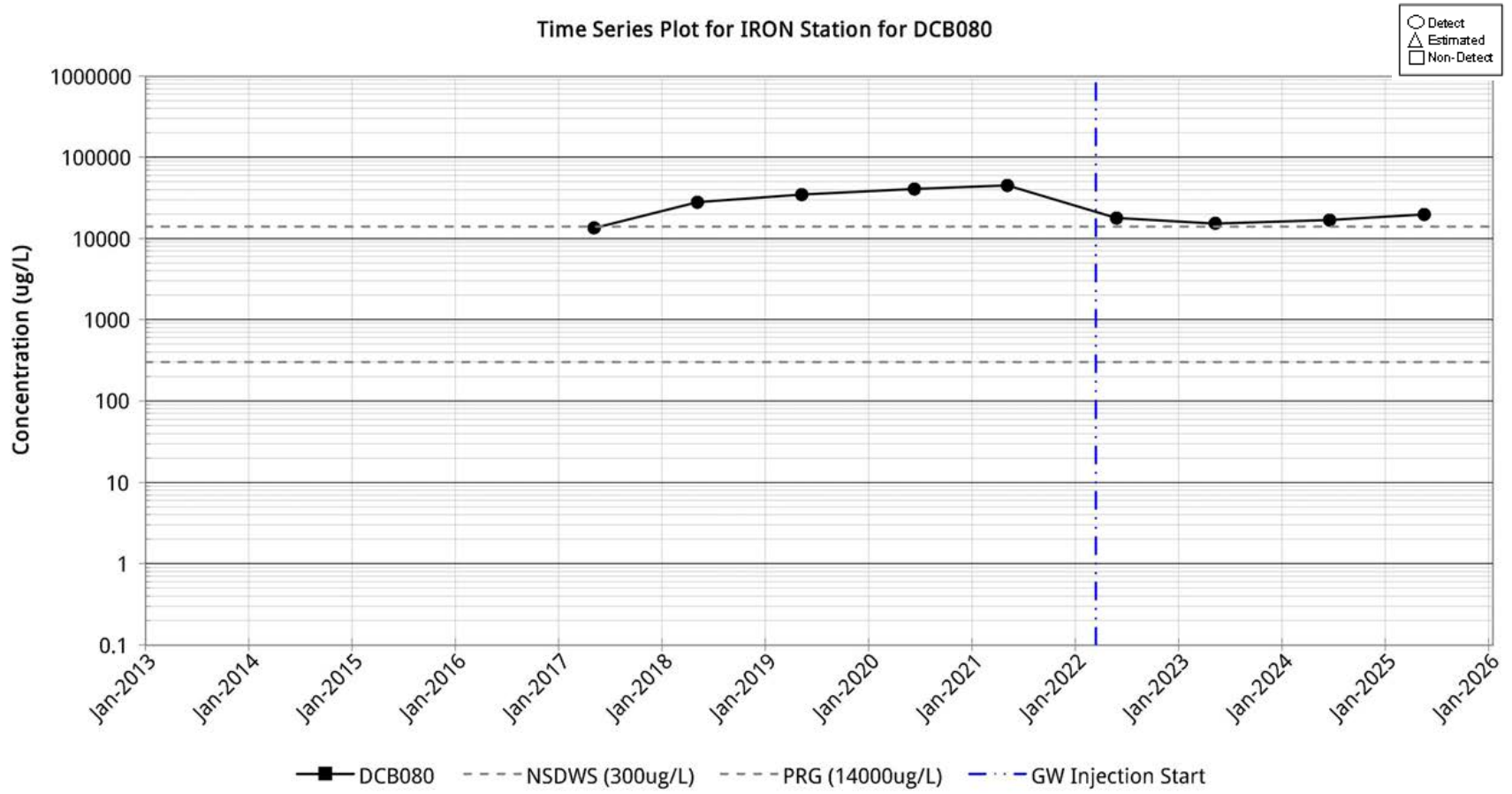

Time Series Plot for IRON Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

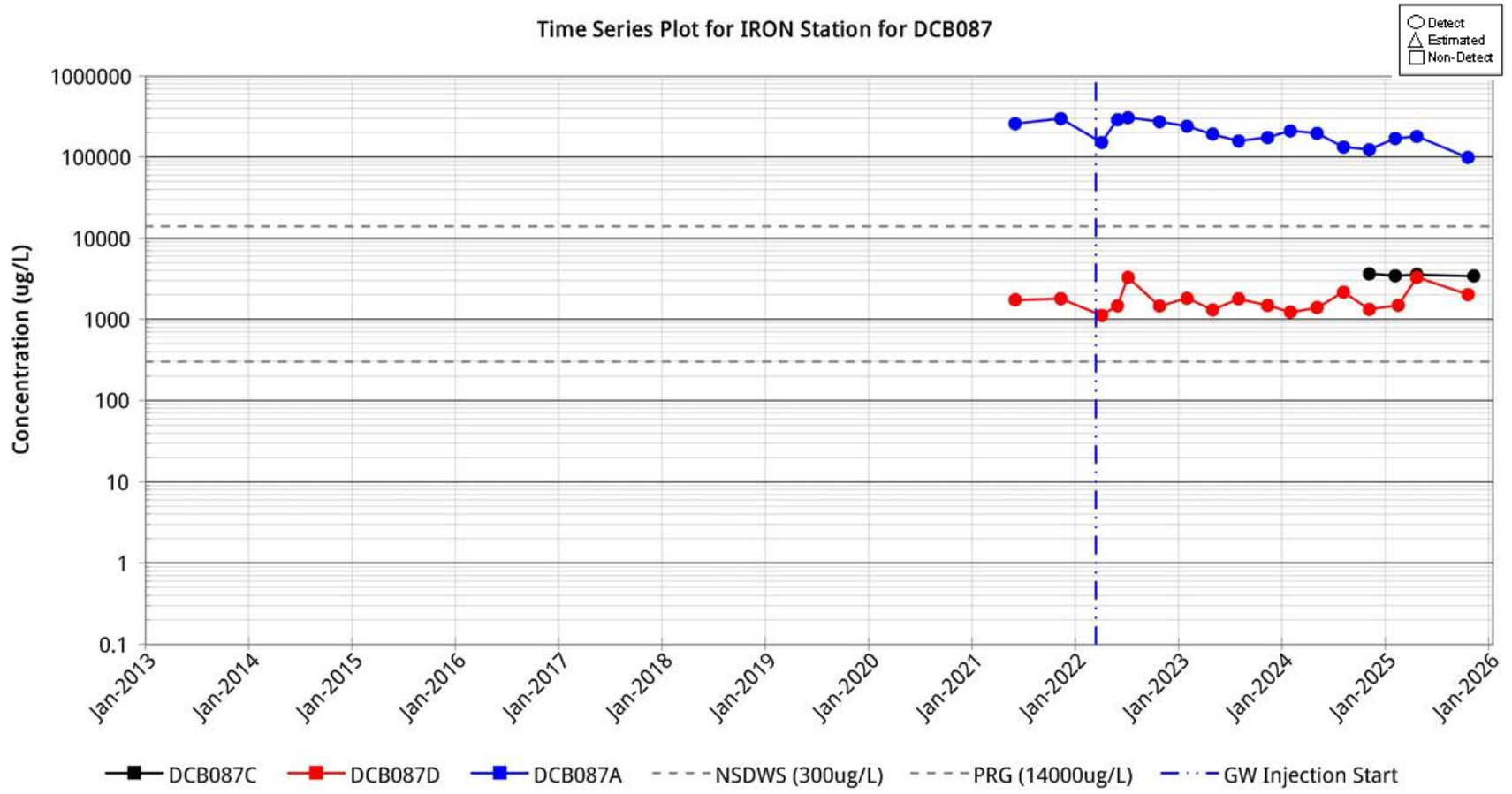

Time Series Plot for IRON Station for DCB077
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

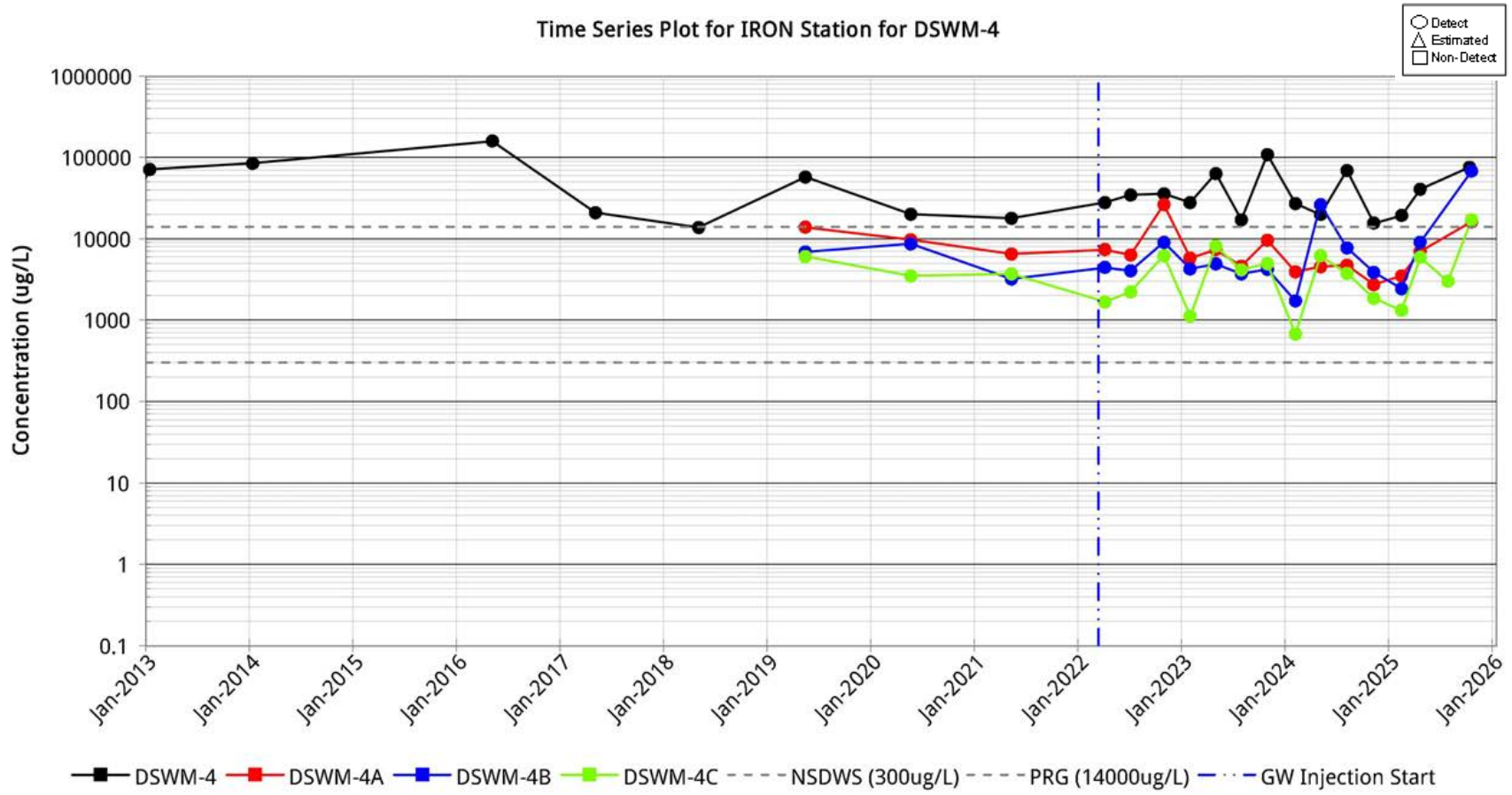


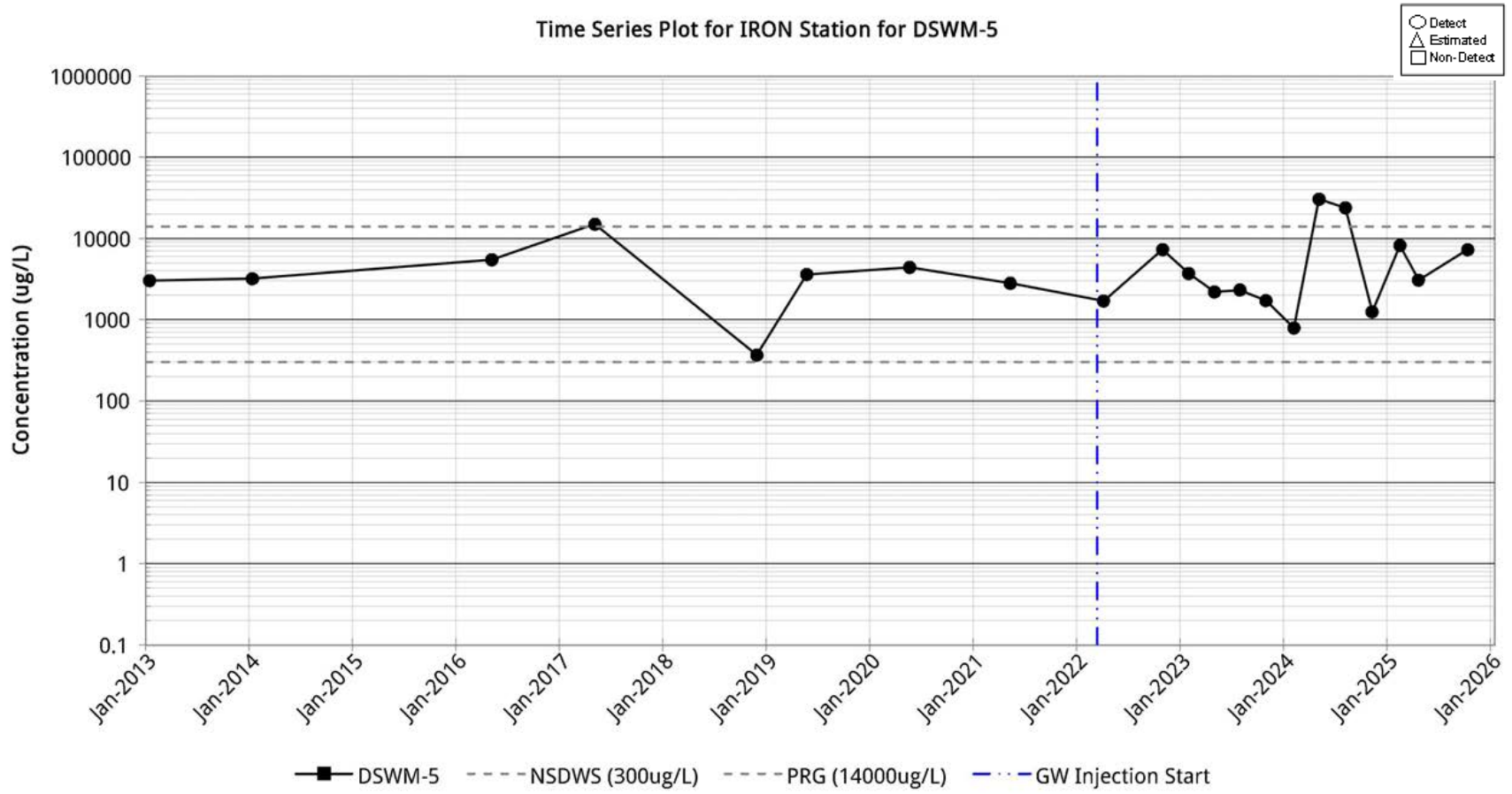
Note: Well DCB078 is a replacement well for DCB 47C

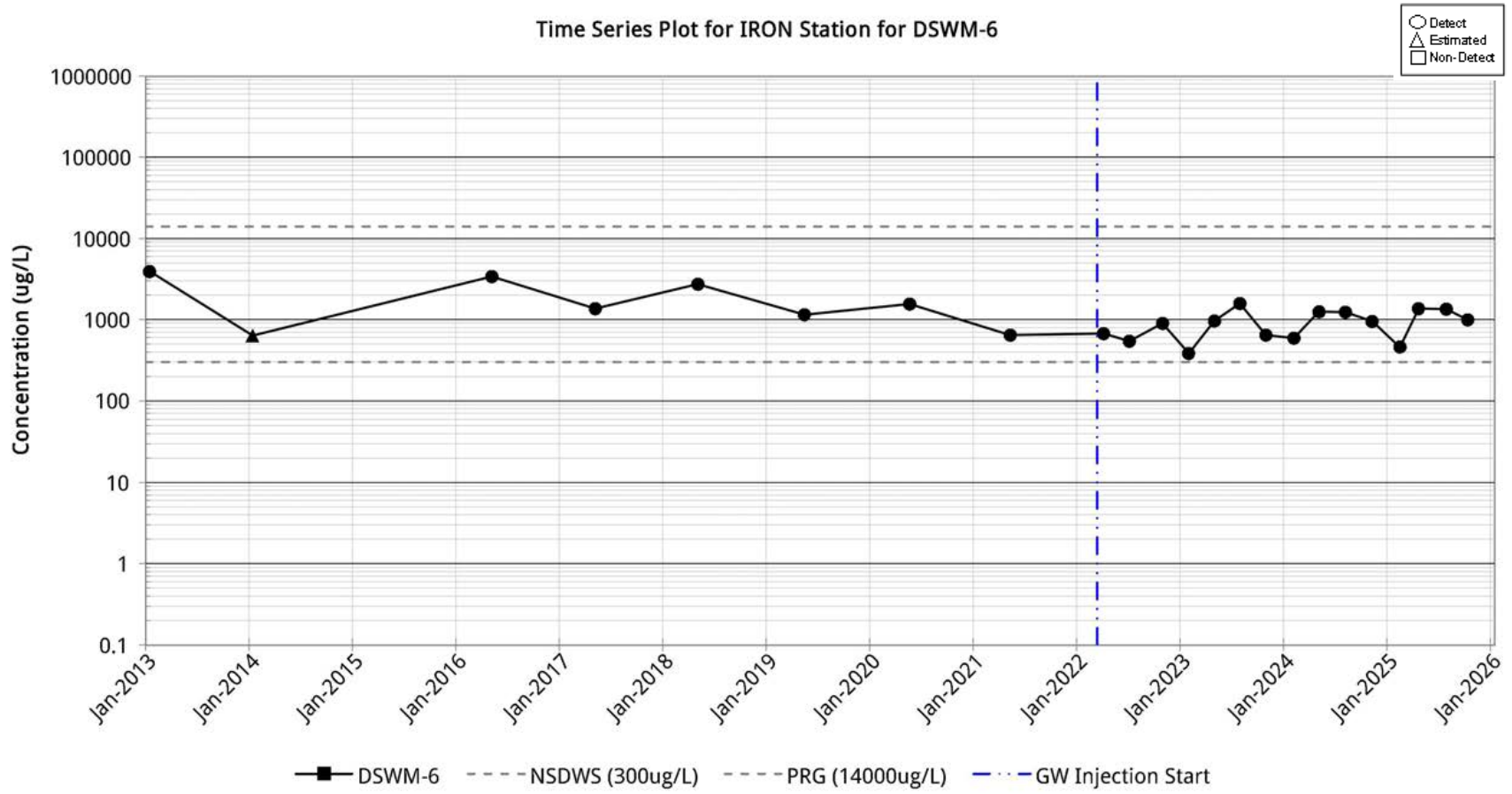

Time Series Plot for IRON Station for DCB079
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

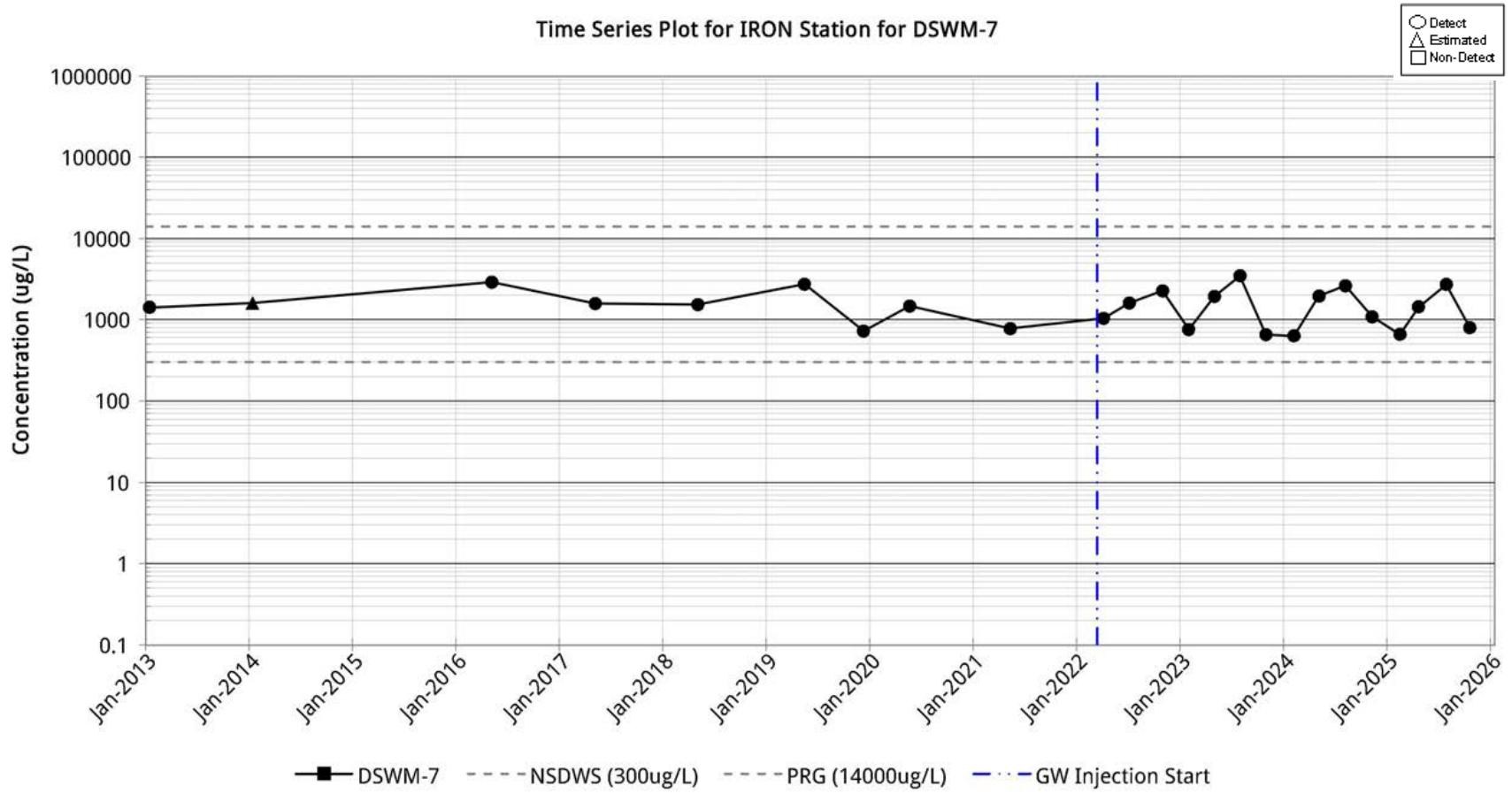

Time Series Plot for IRON Station for DCB080
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

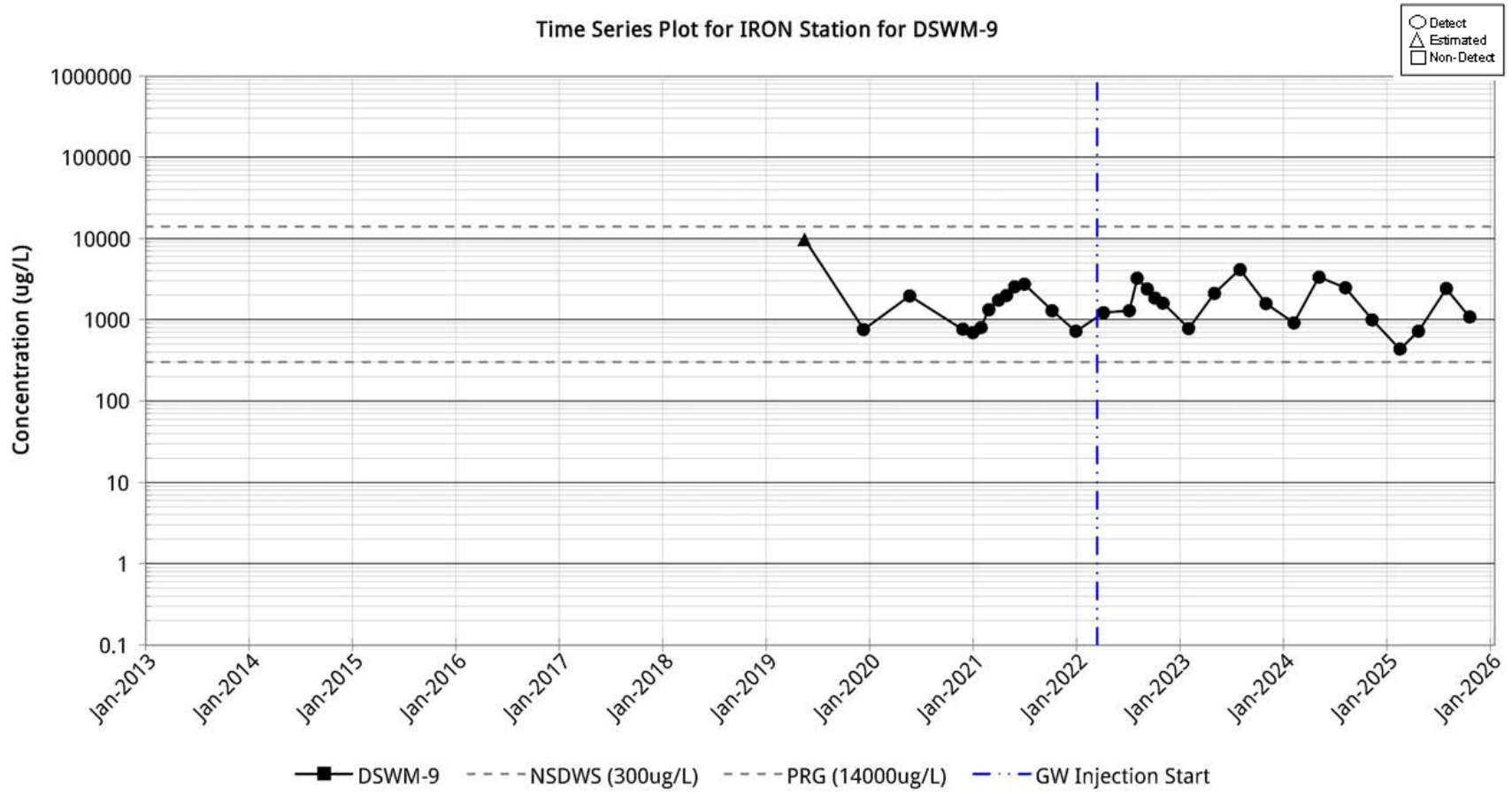

Time Series Plot for IRON Station for DCB087
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

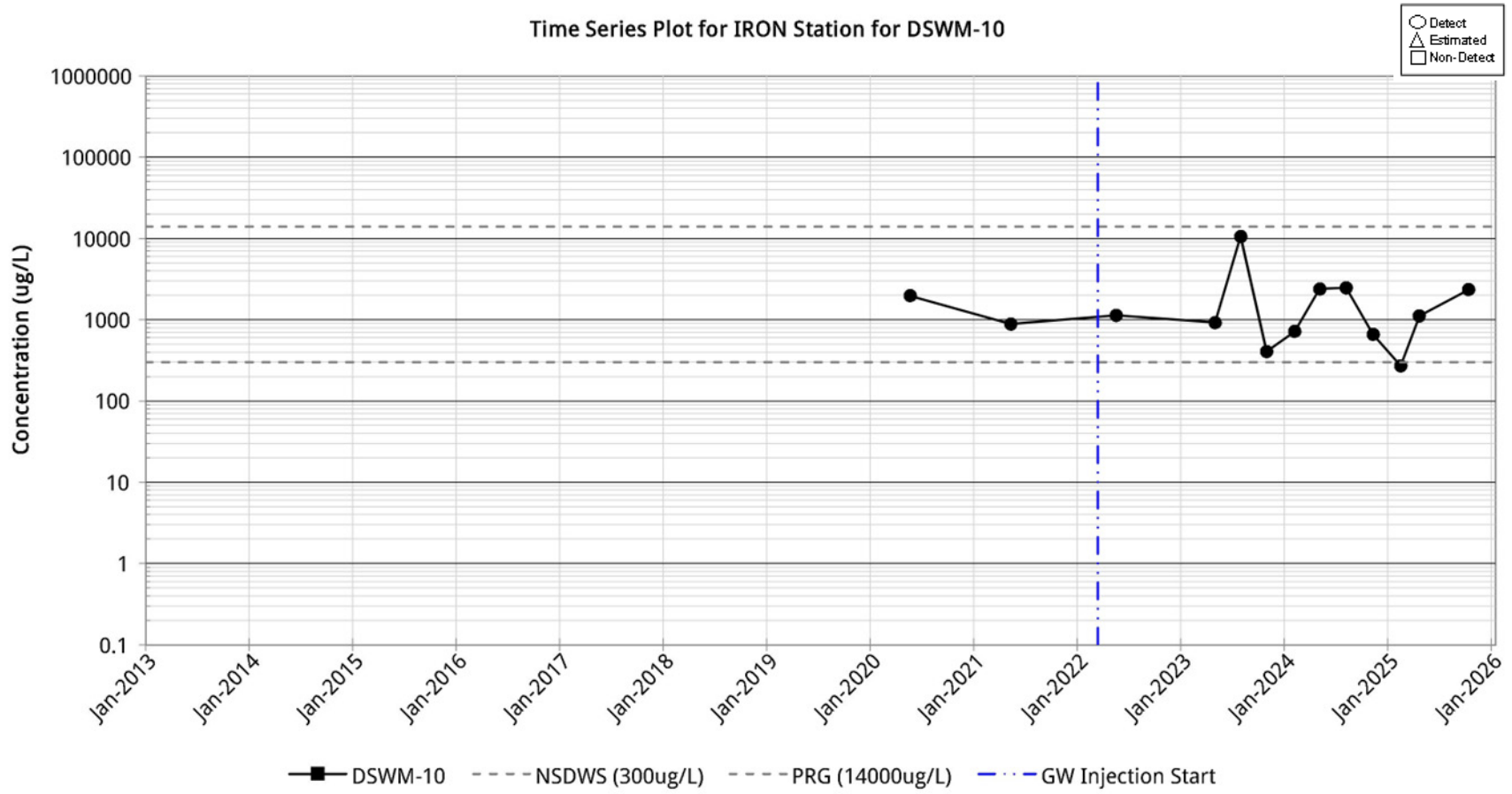

Time Series Plot for IRON Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

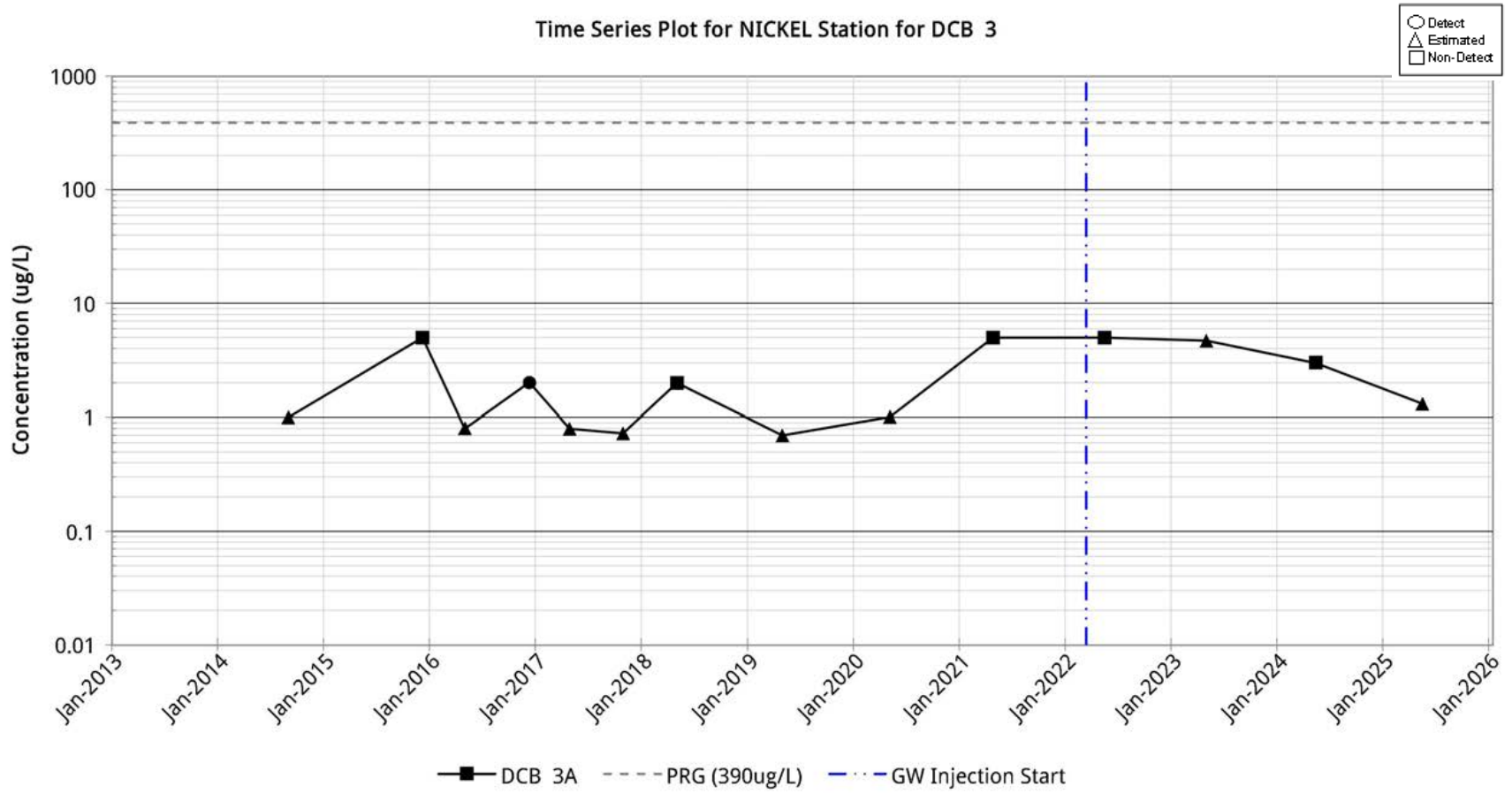

Time Series Plot for IRON Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

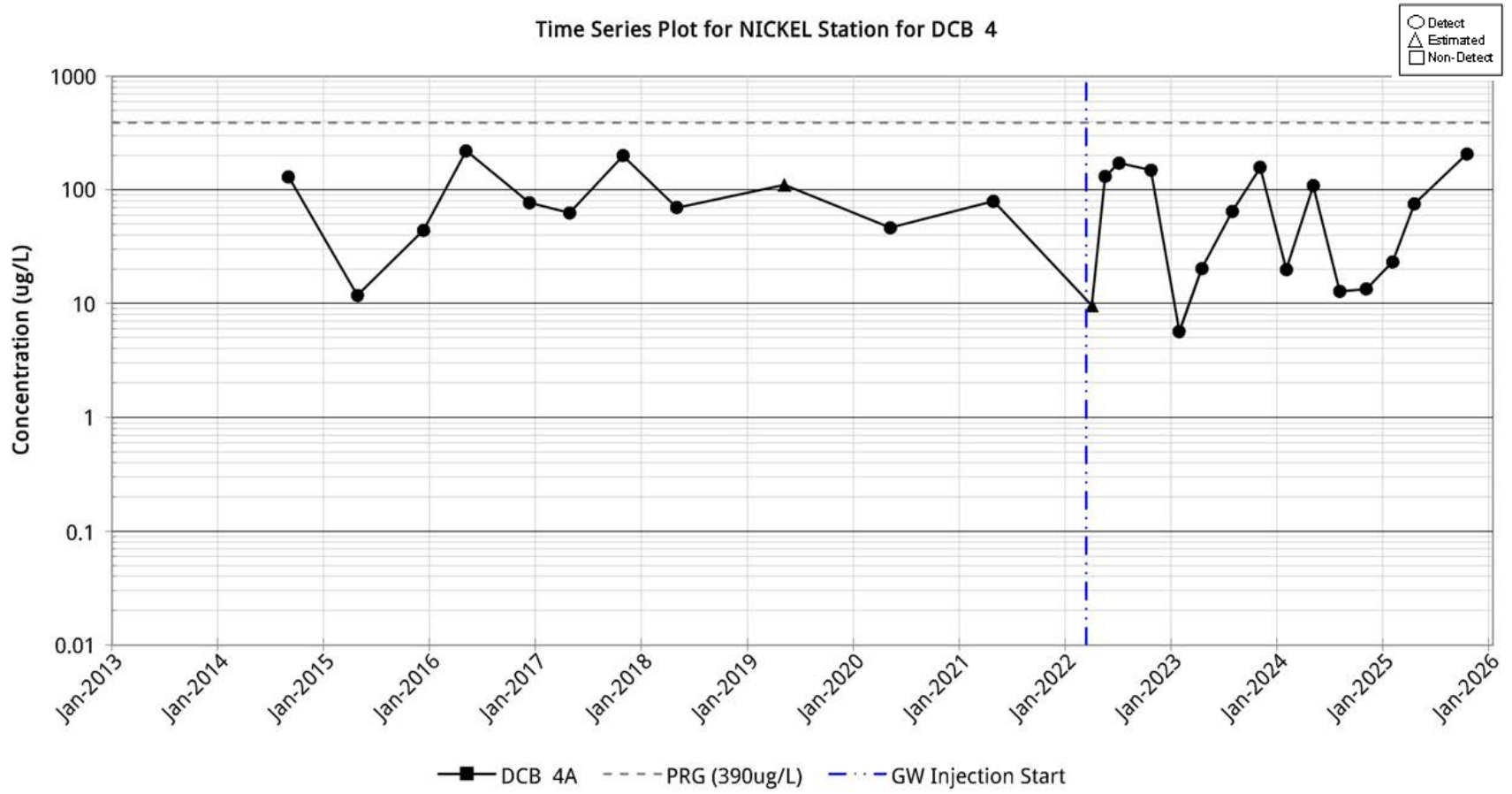

Time Series Plot for IRON Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

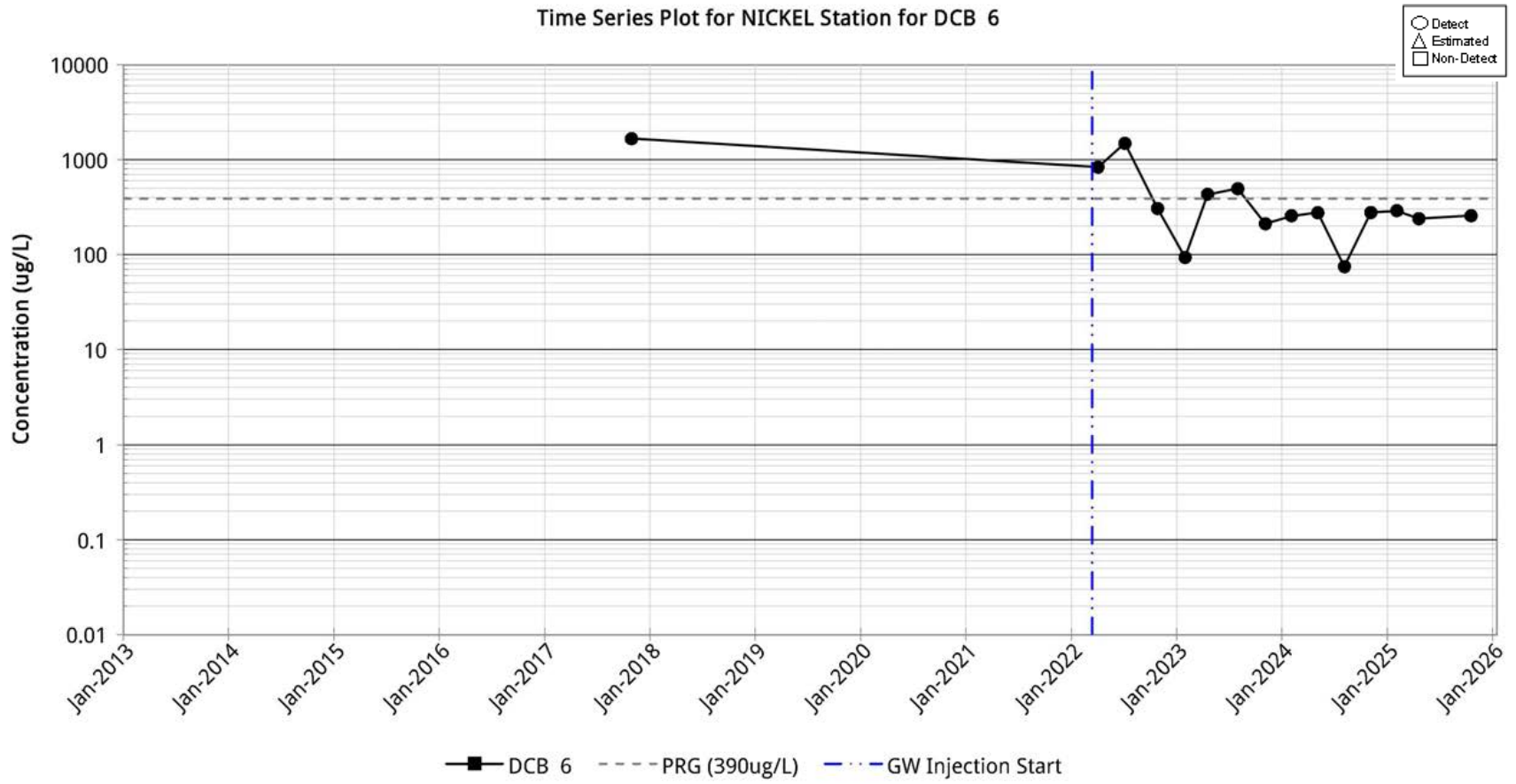

Time Series Plot for IRON Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

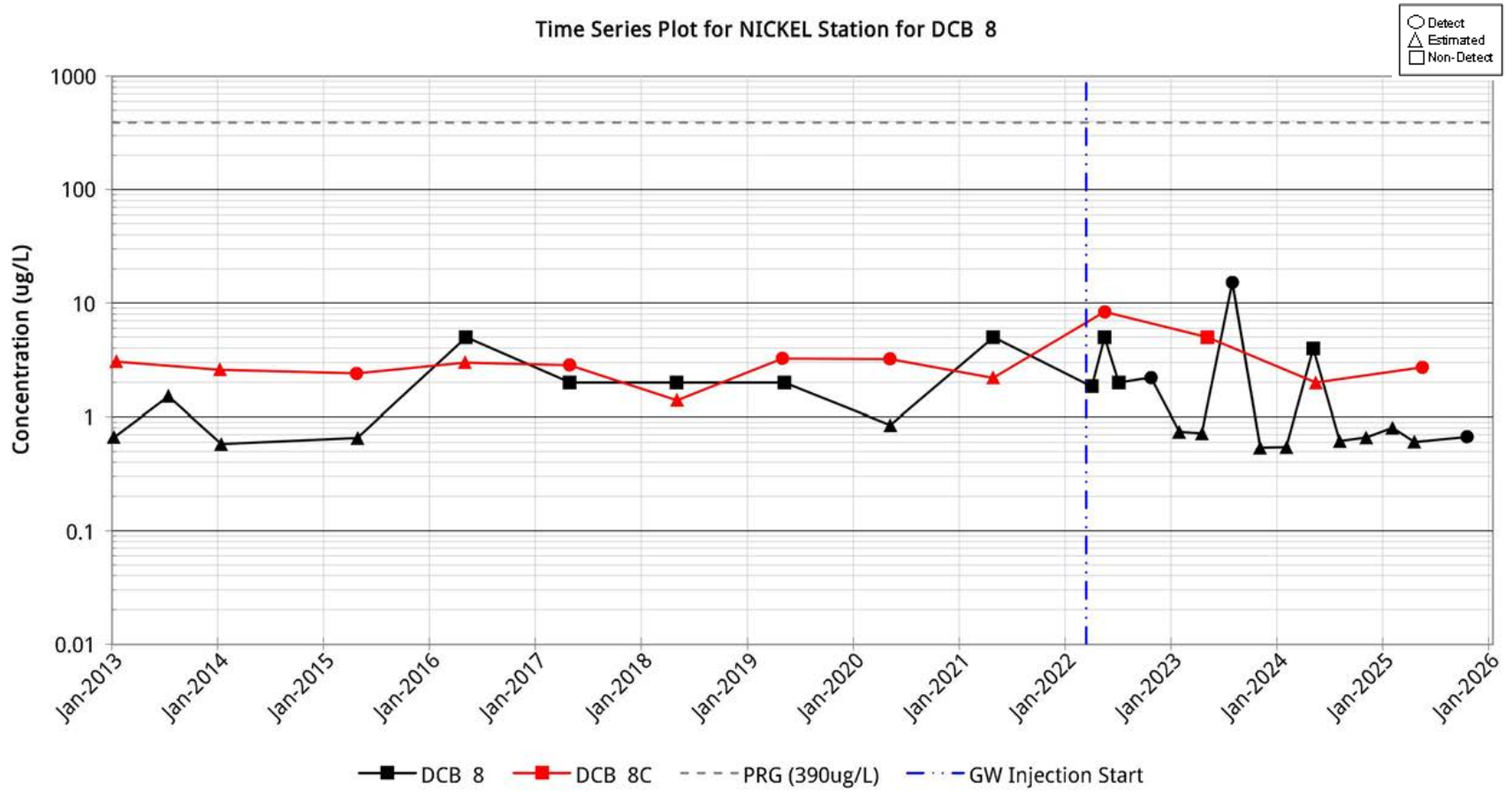

Time Series Plot for IRON Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

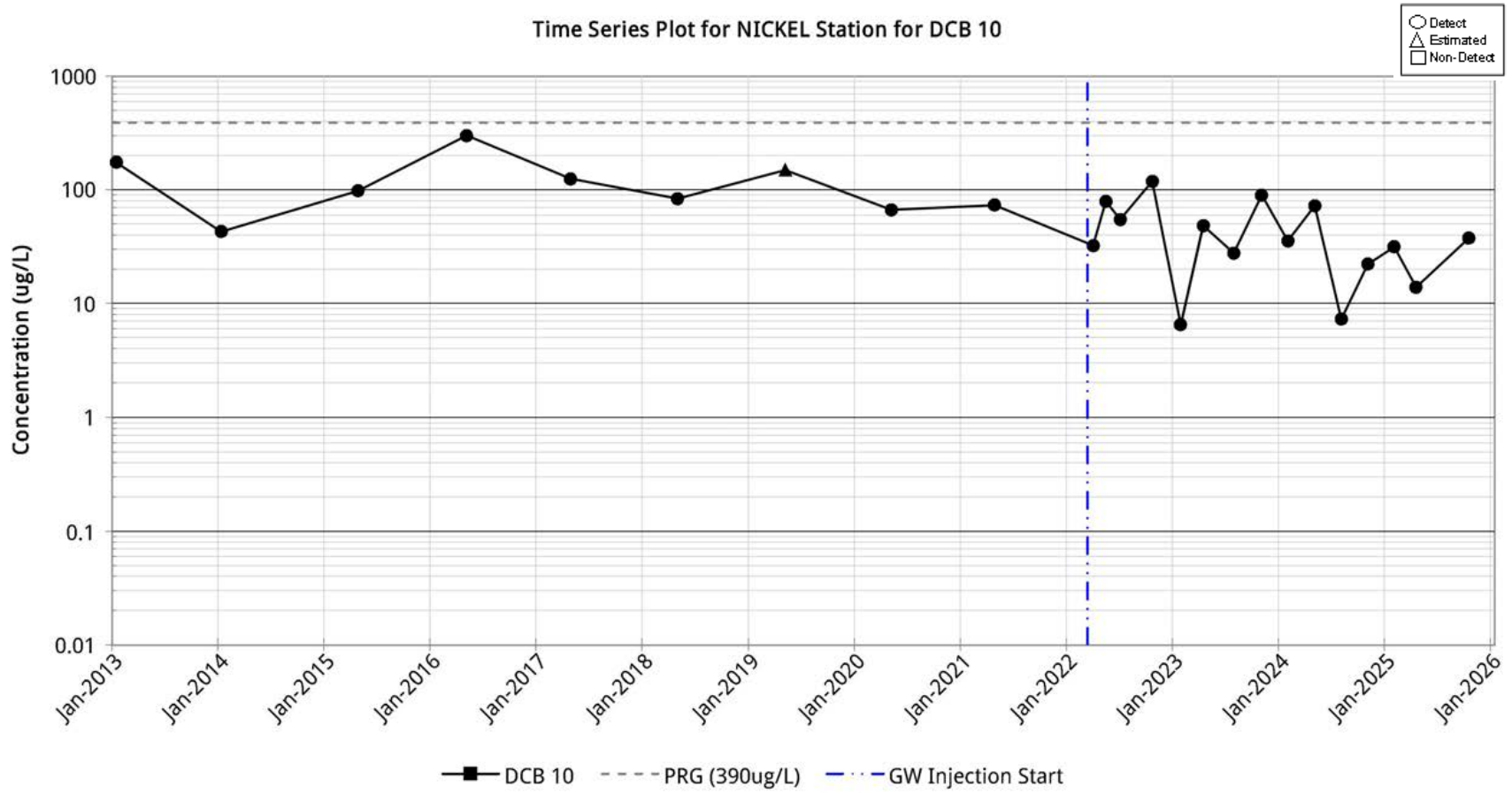

Time Series Plot for IRON Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
NSDWS (300ug/L)
PRG (14000ug/L)
GW Injection Start

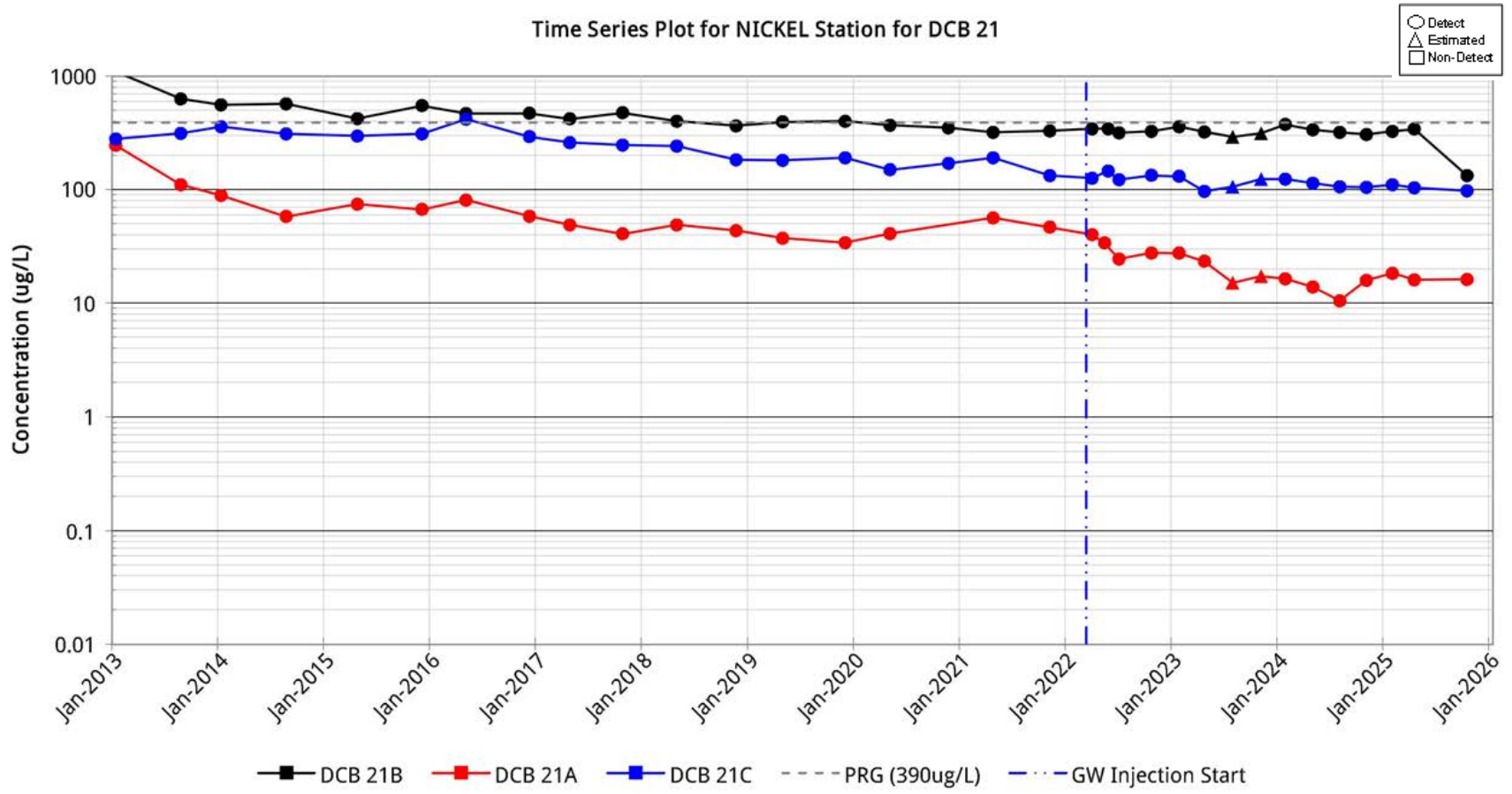

Time Series Plot for NICKEL Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
PRG (390ug/L)
GW Injection Start

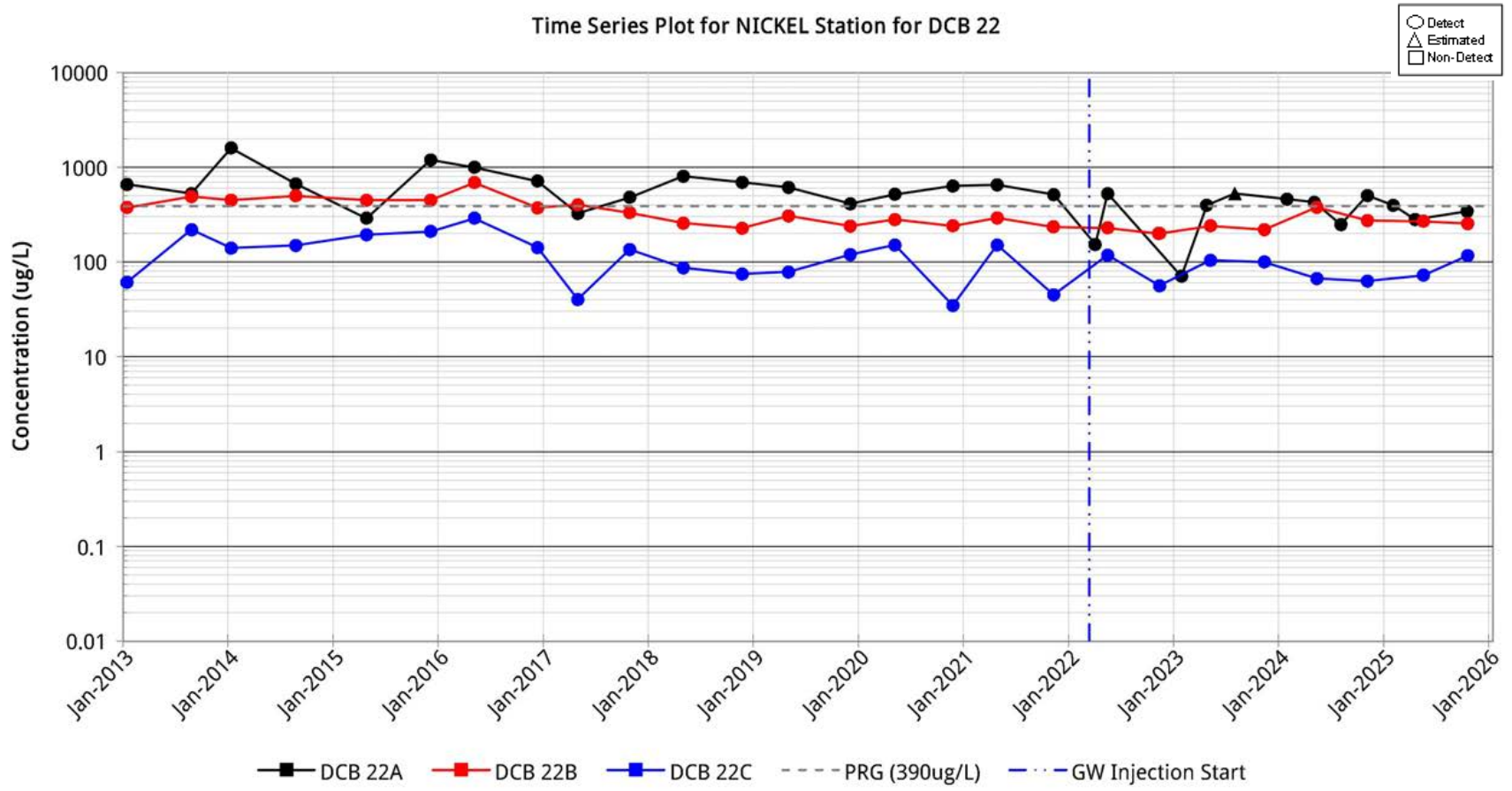

Time Series Plot for NICKEL Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
PRG (390ug/L)
GW Injection Start

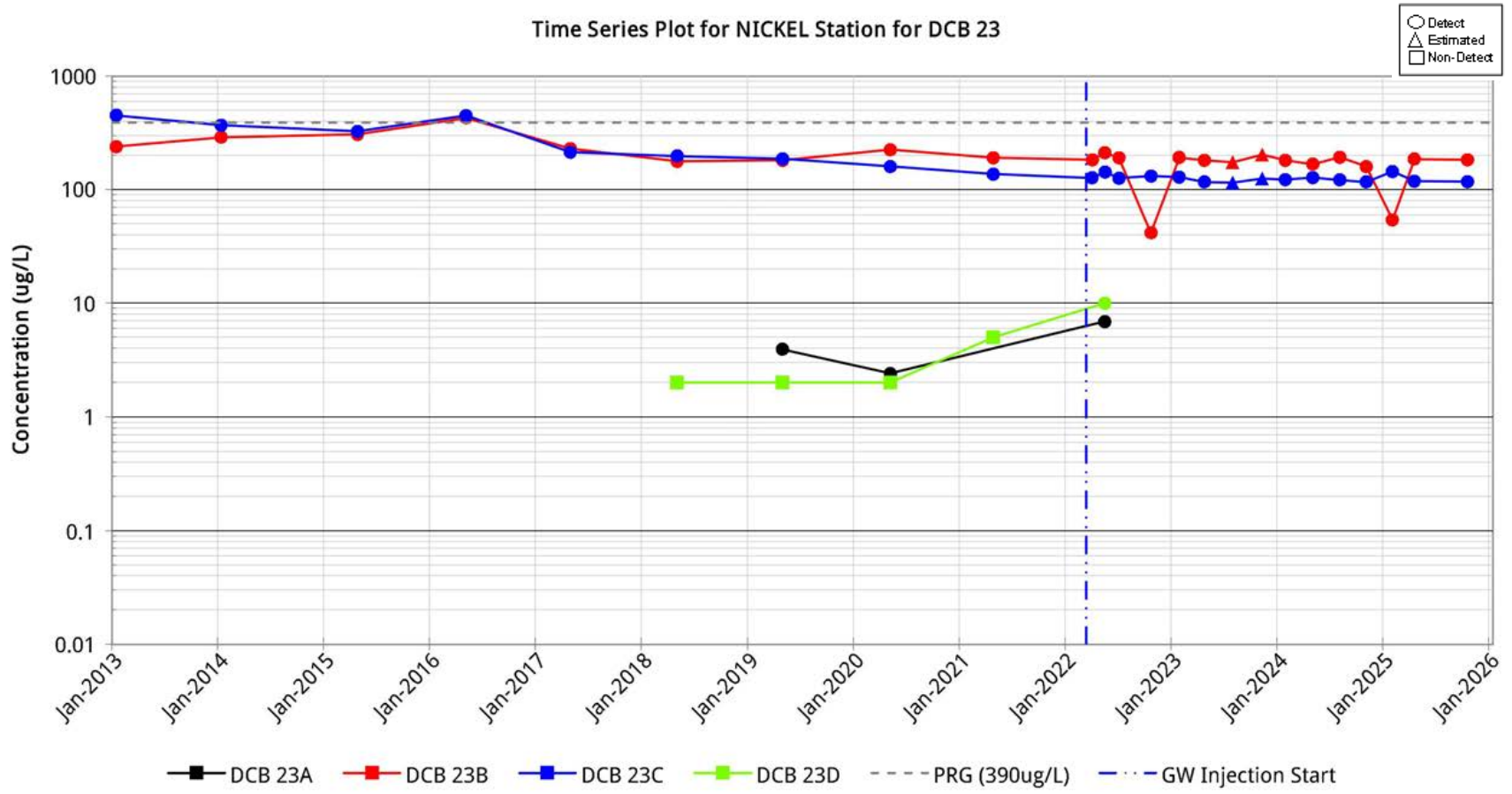

Time Series Plot for NICKEL Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
PRG (390ug/L)
GW Injection Start

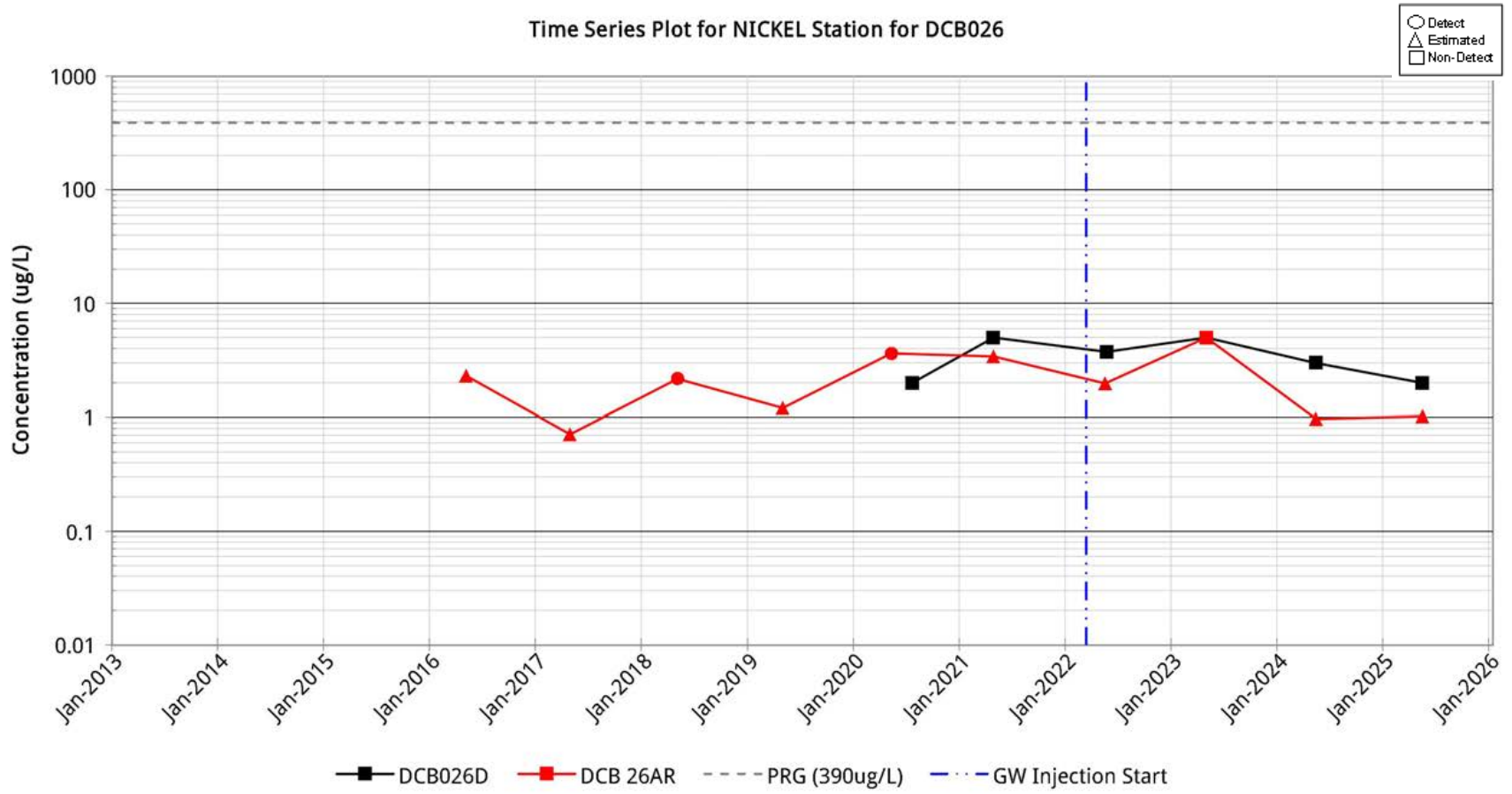

Time Series Plot for NICKEL Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
PRG (390ug/L)
GW Injection Start

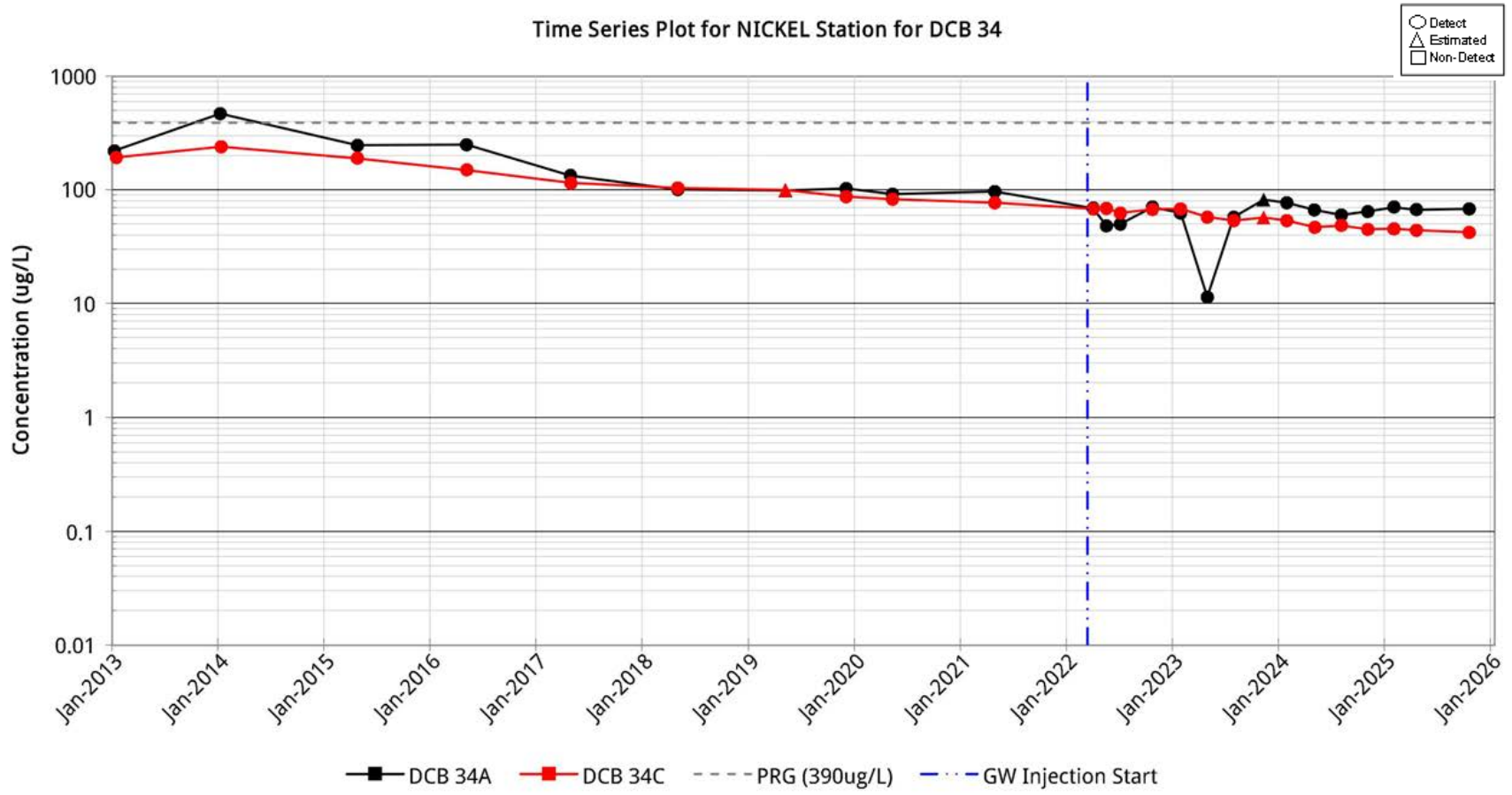

Time Series Plot for NICKEL Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
PRG (390ug/L)
GW Injection Start

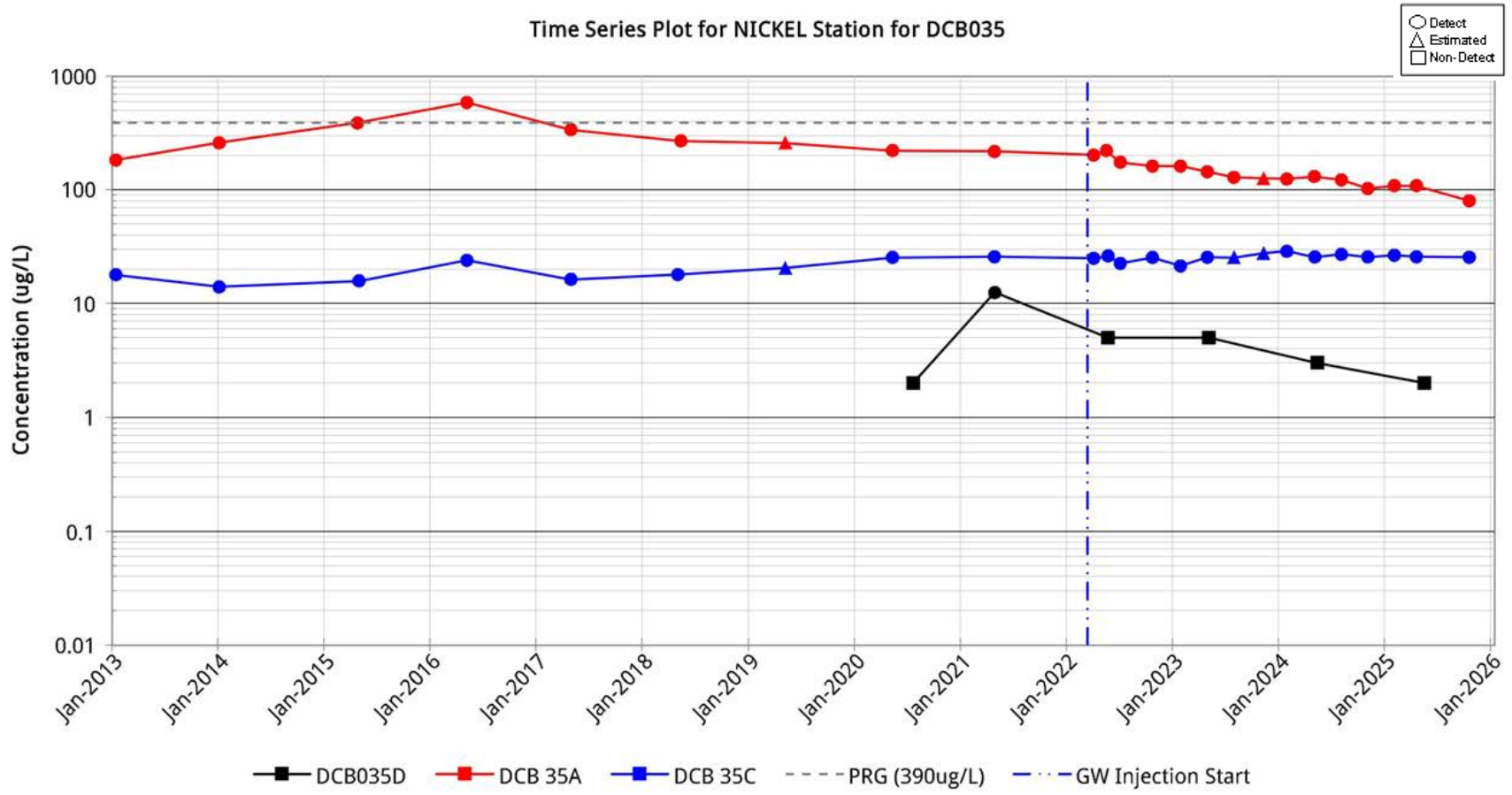

Time Series Plot for NICKEL Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
PRG (390ug/L)
GW Injection Start

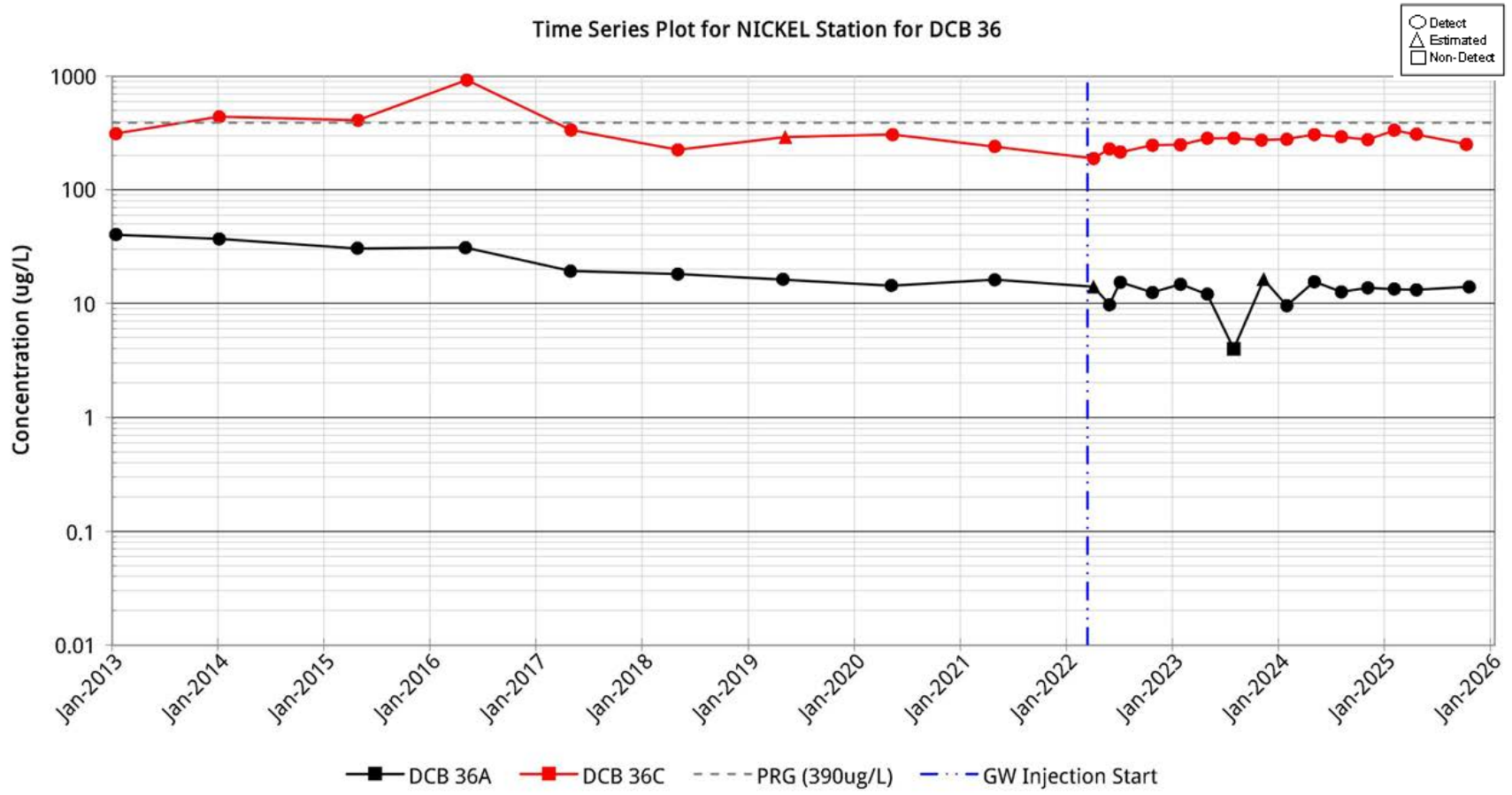

Time Series Plot for NICKEL Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (ug/L)
10000
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
PRG (390ug/L)
GW Injection Start

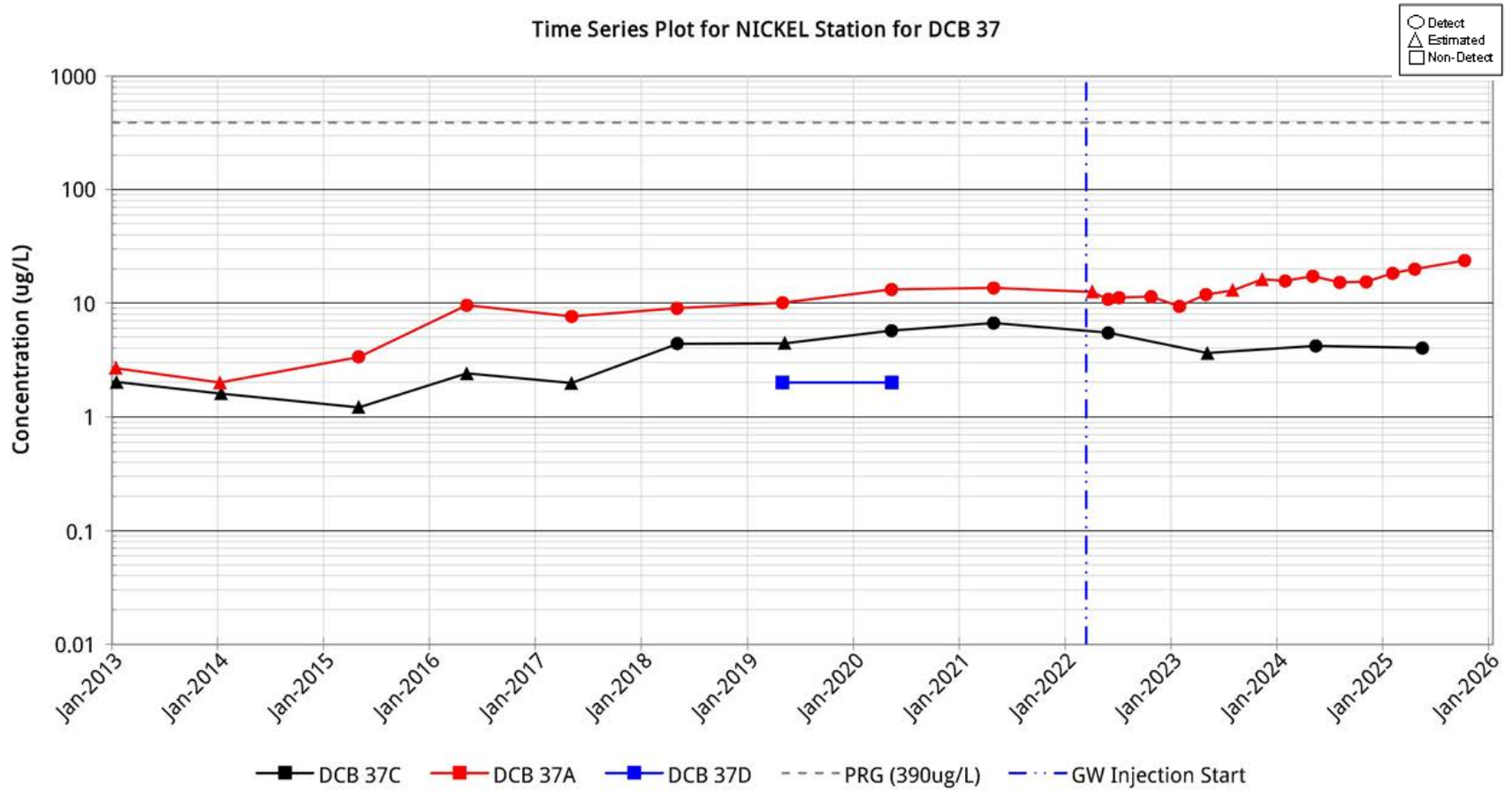

Time Series Plot for NICKEL Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
PRG (390ug/L)
GW Injection Start

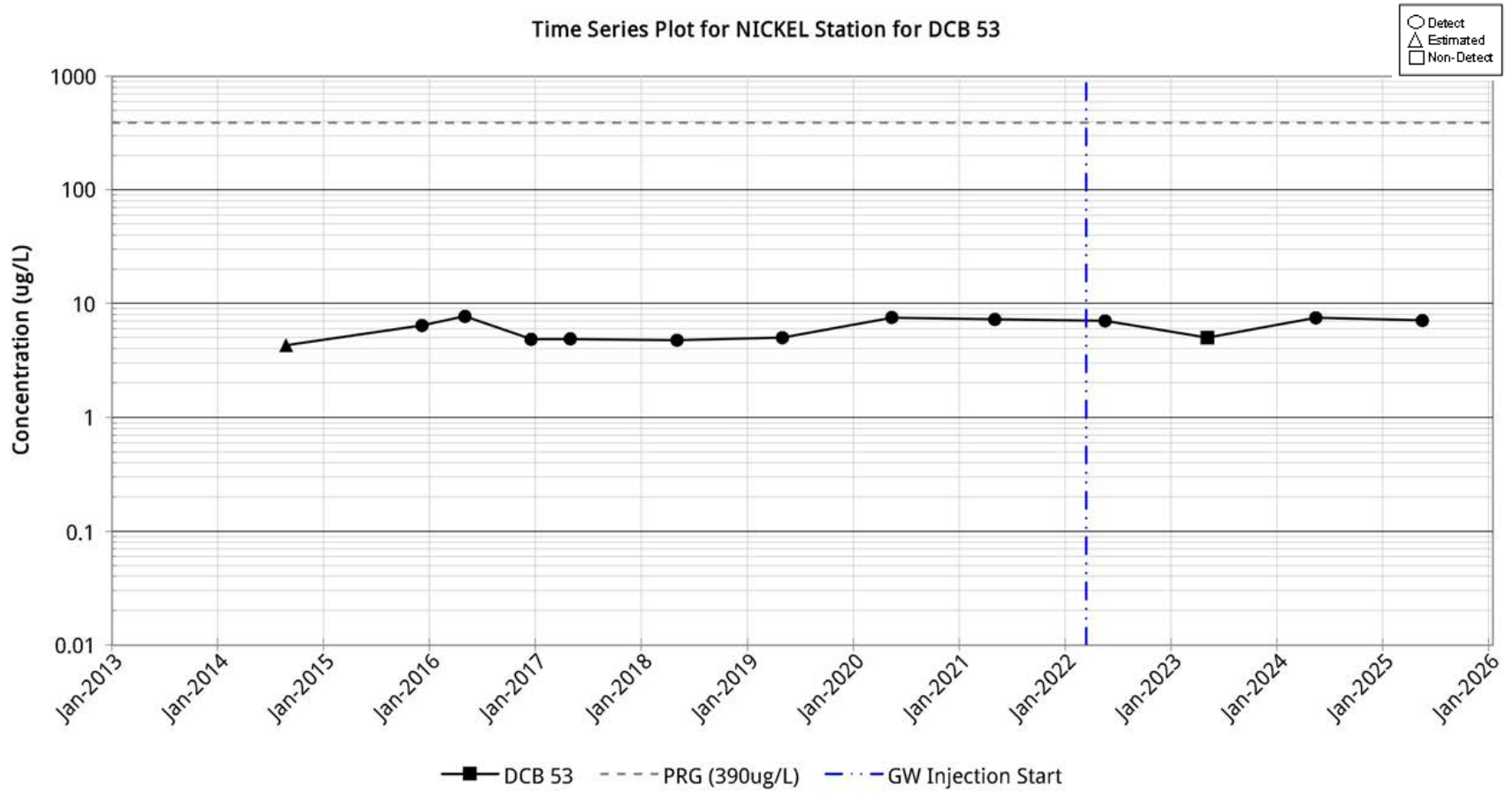

Time Series Plot for NICKEL Station for DCB026
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
PRG (390ug/L)
GW Injection Start

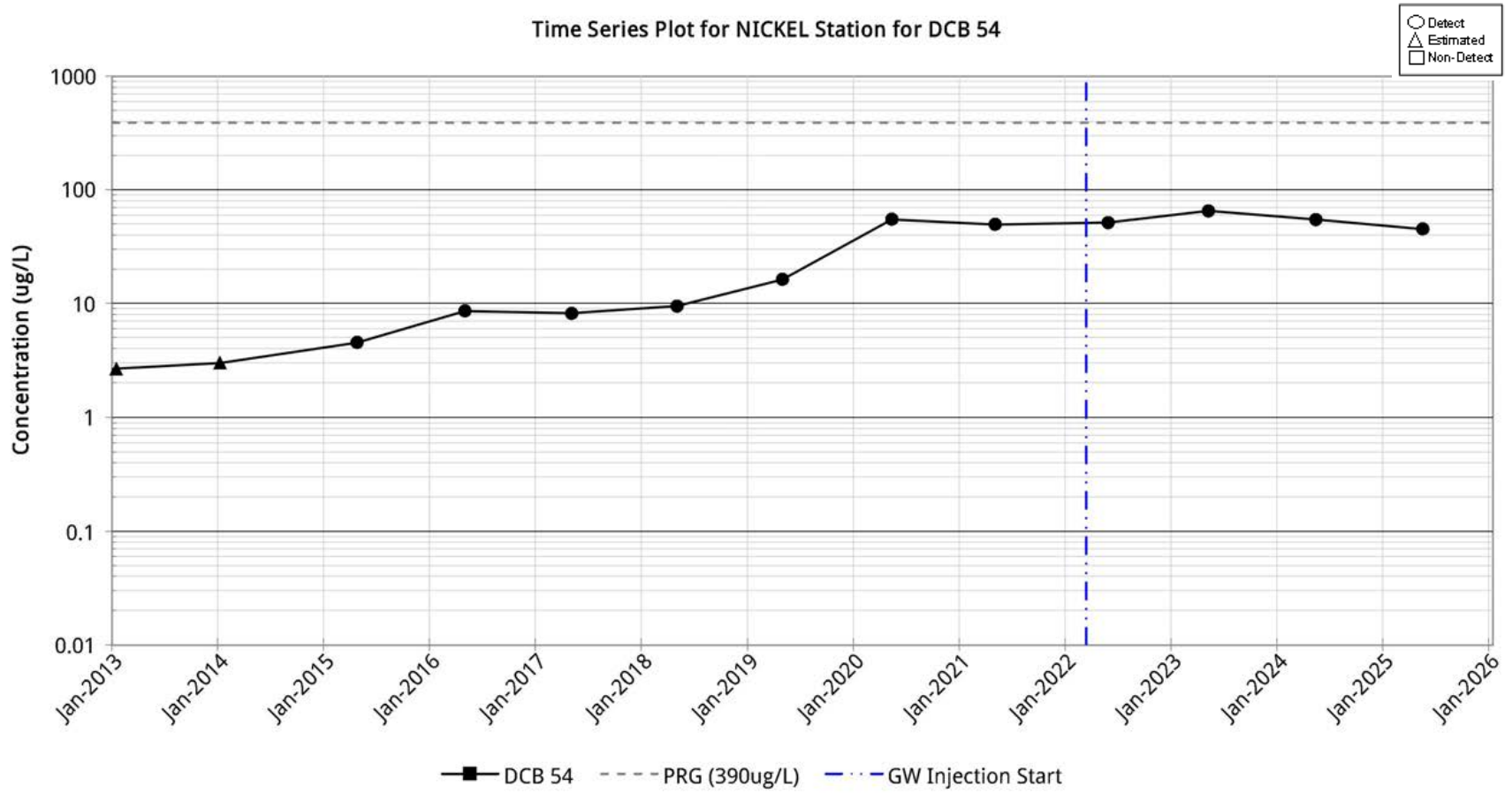

Time Series Plot for NICKEL Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
PRG (390ug/L)
GW Injection Start

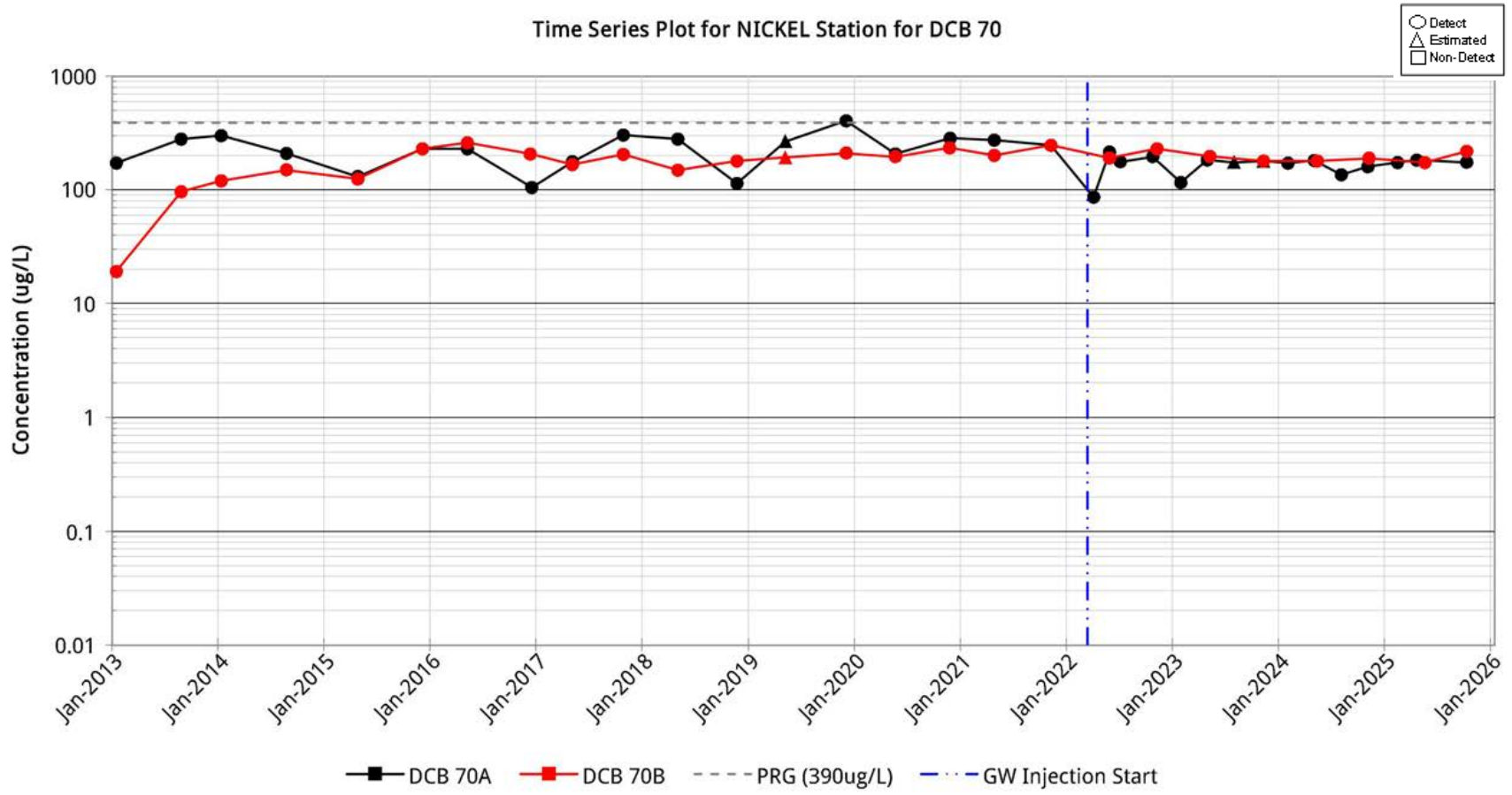

Time Series Plot for NICKEL Station for DCB035
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
PRG (390ug/L)
GW Injection Start

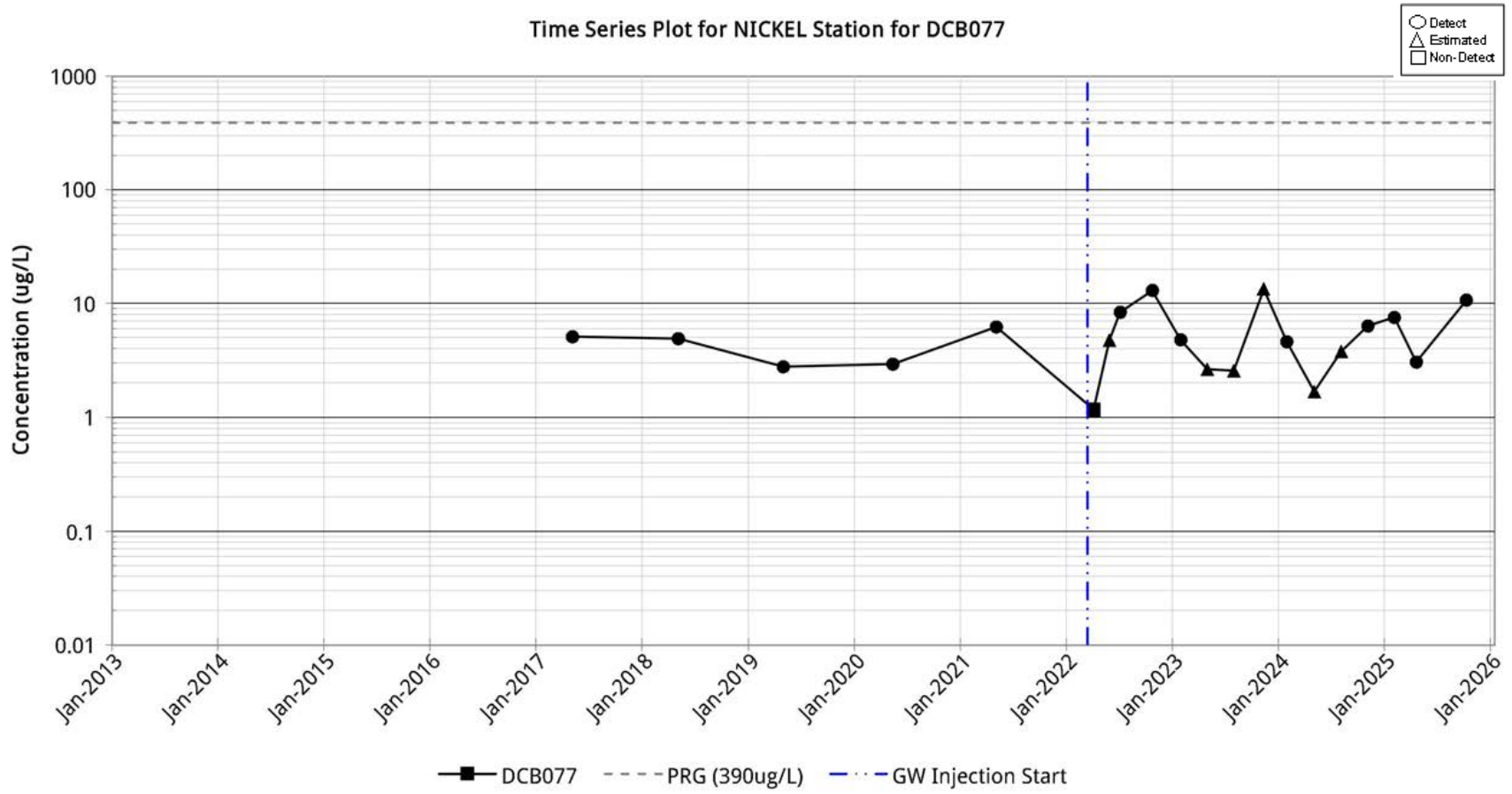

Time Series Plot for NICKEL Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
PRG (390ug/L)
GW Injection Start

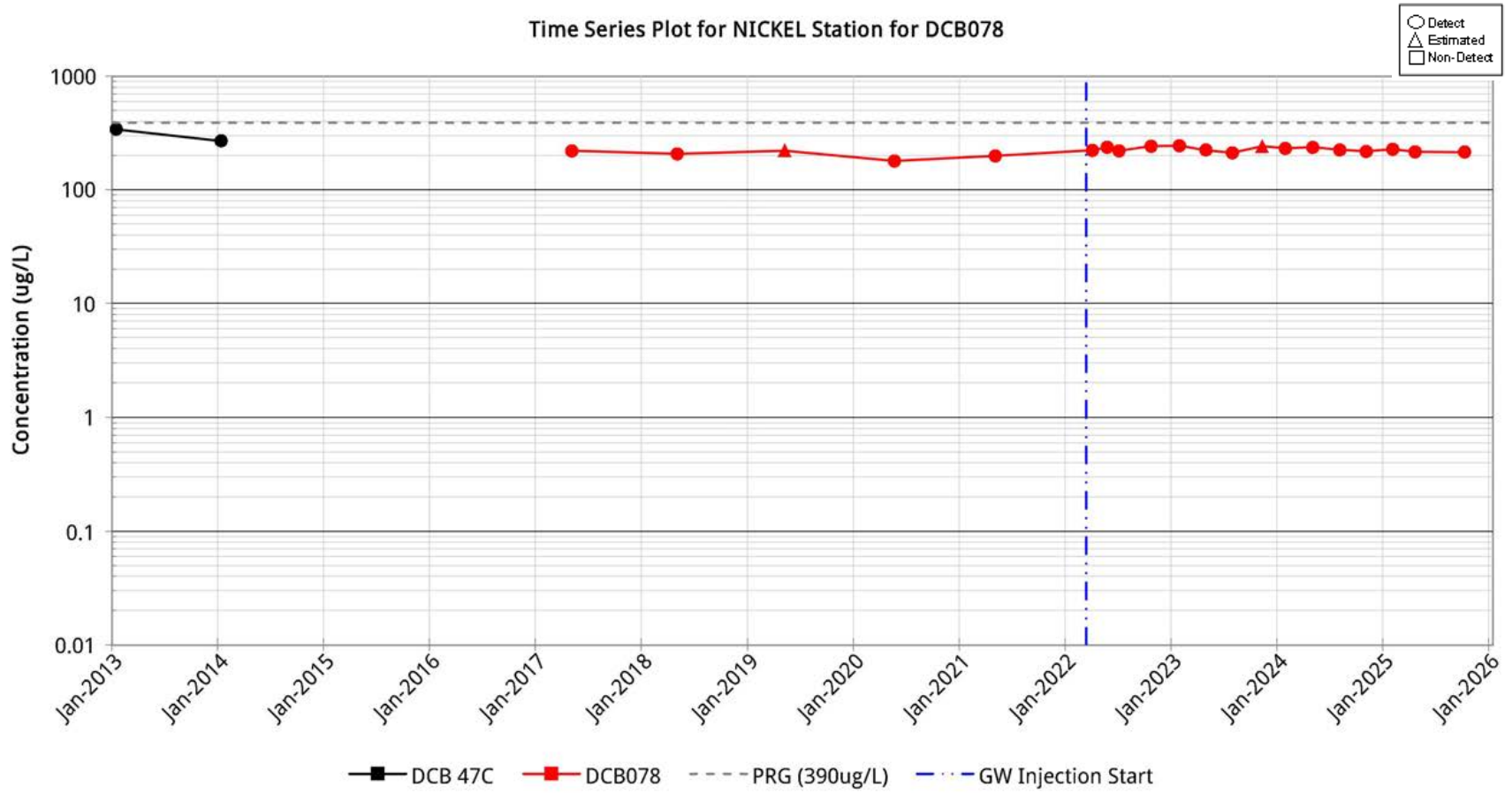

Time Series Plot for NICKEL Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
DCB 37D
PRG (390ug/L)
GW Injection Start


Time Series Plot for NICKEL Station for DCB 53
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
PRG (390ug/L)
GW Injection Start

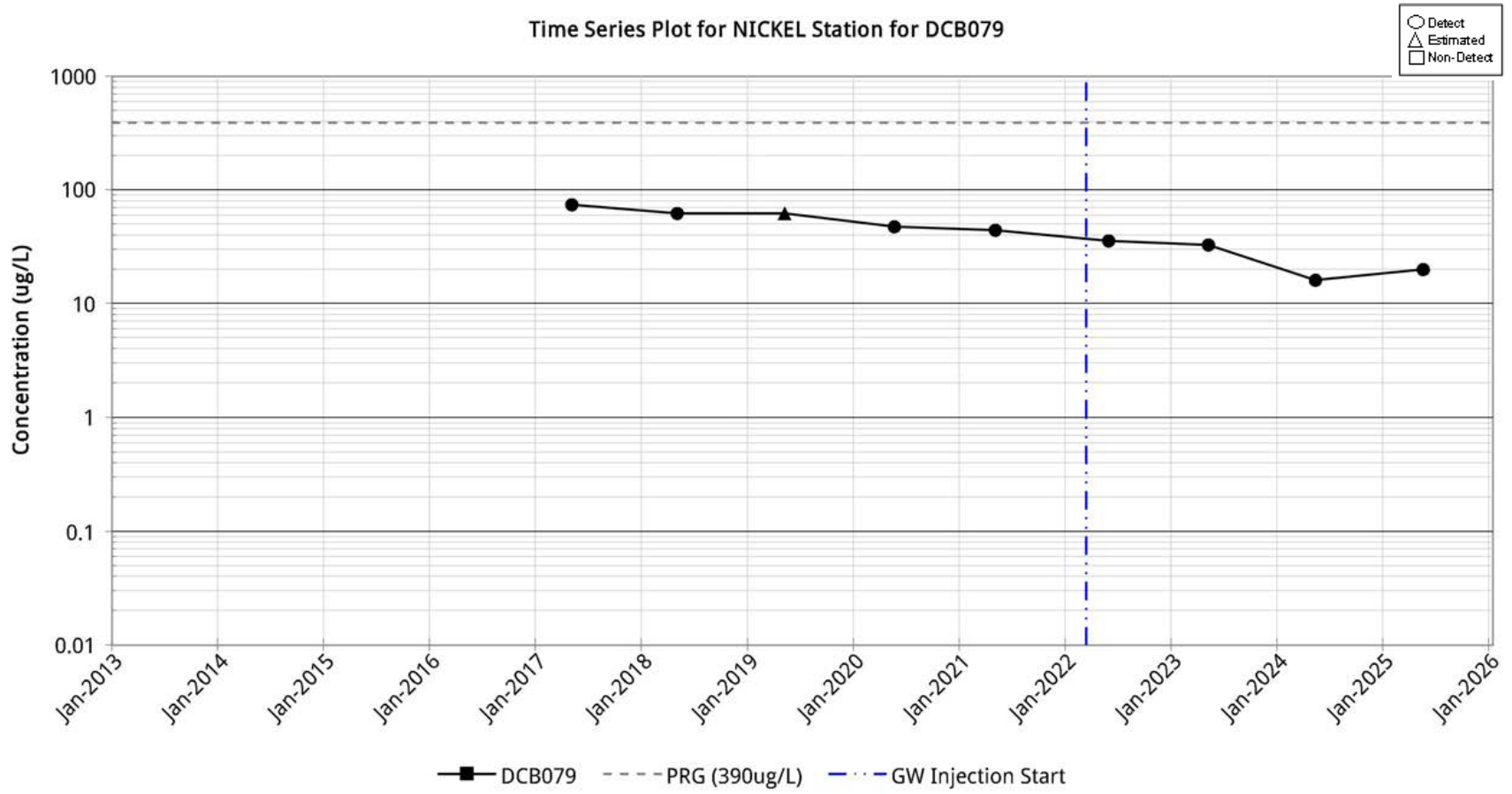

Time Series Plot for NICKEL Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
PRG (390ug/L)
GW Injection Start

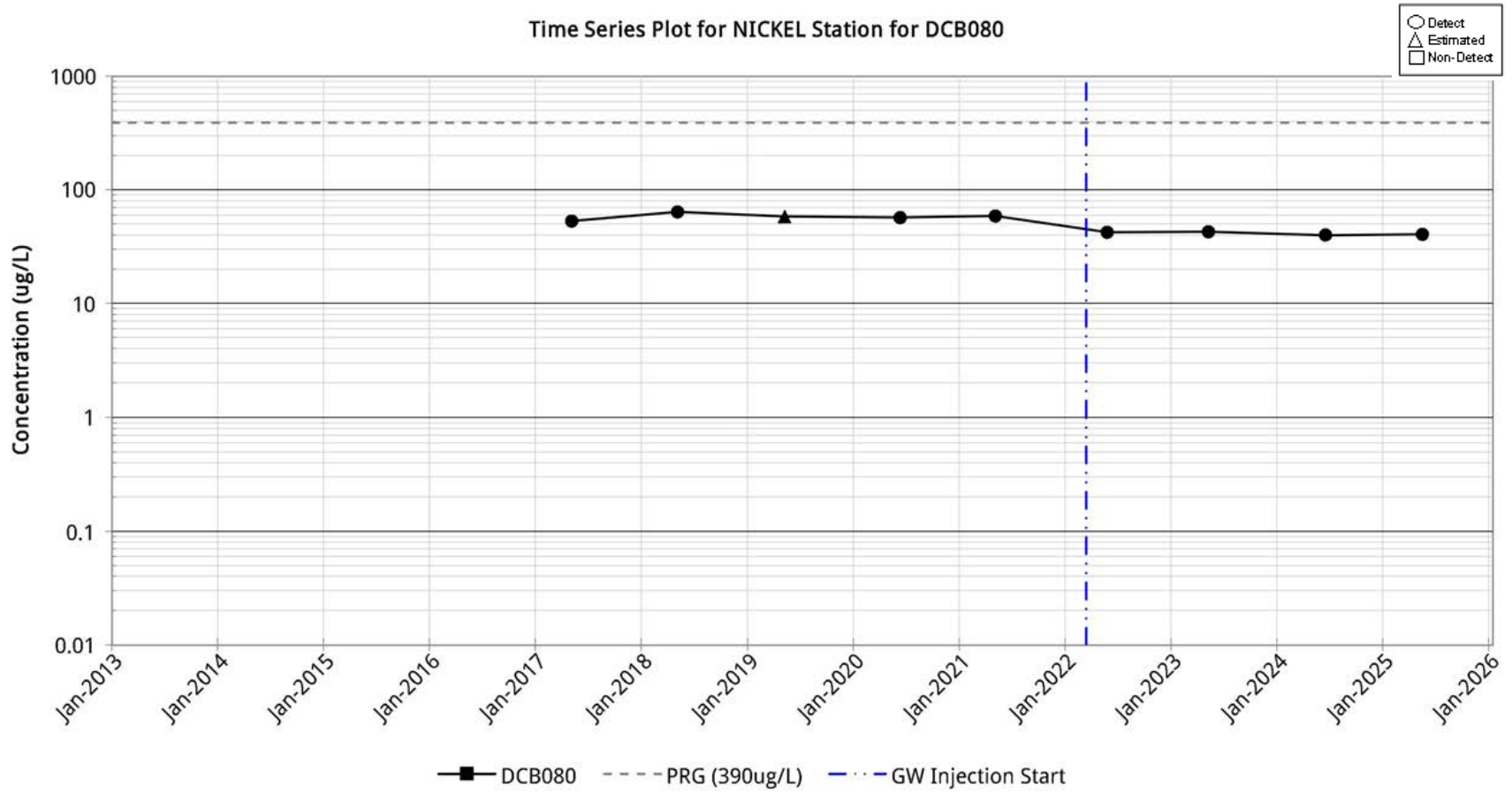

Time Series Plot for NICKEL Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
PRG (390ug/L)
GW Injection Start

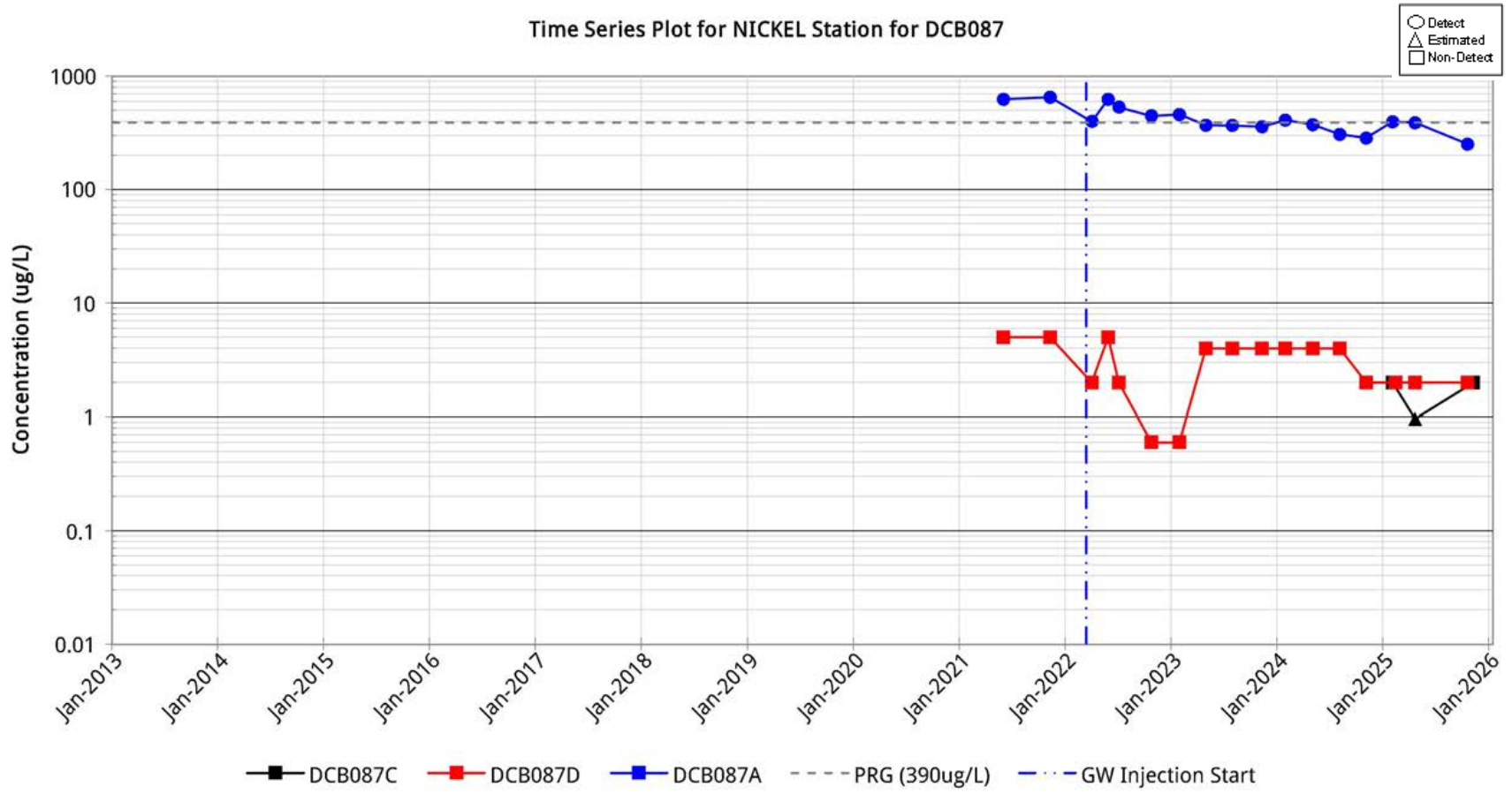

Time Series Plot for NICKEL Station for DCB077
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
PRG (390ug/L)
GW Injection Start

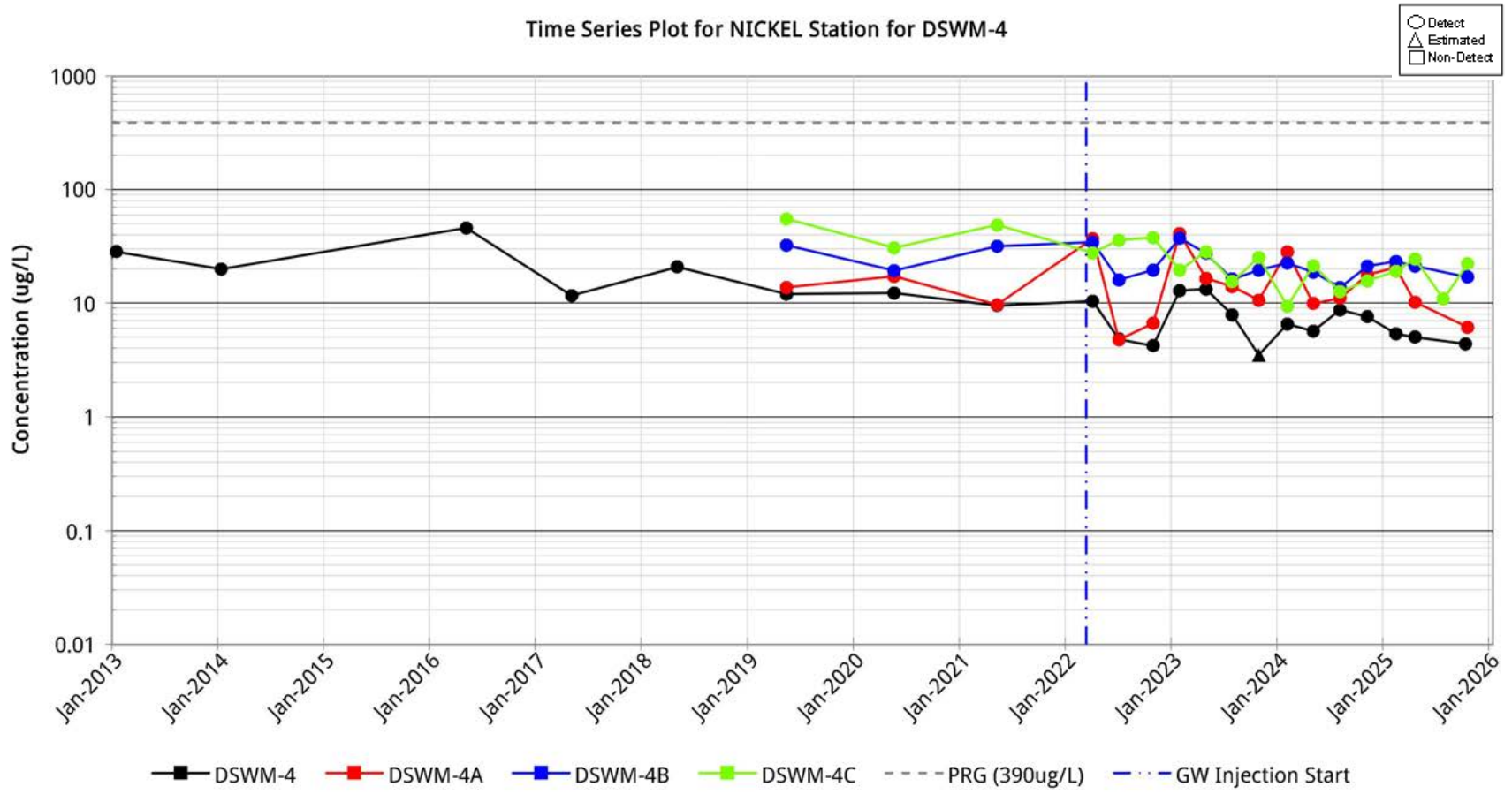


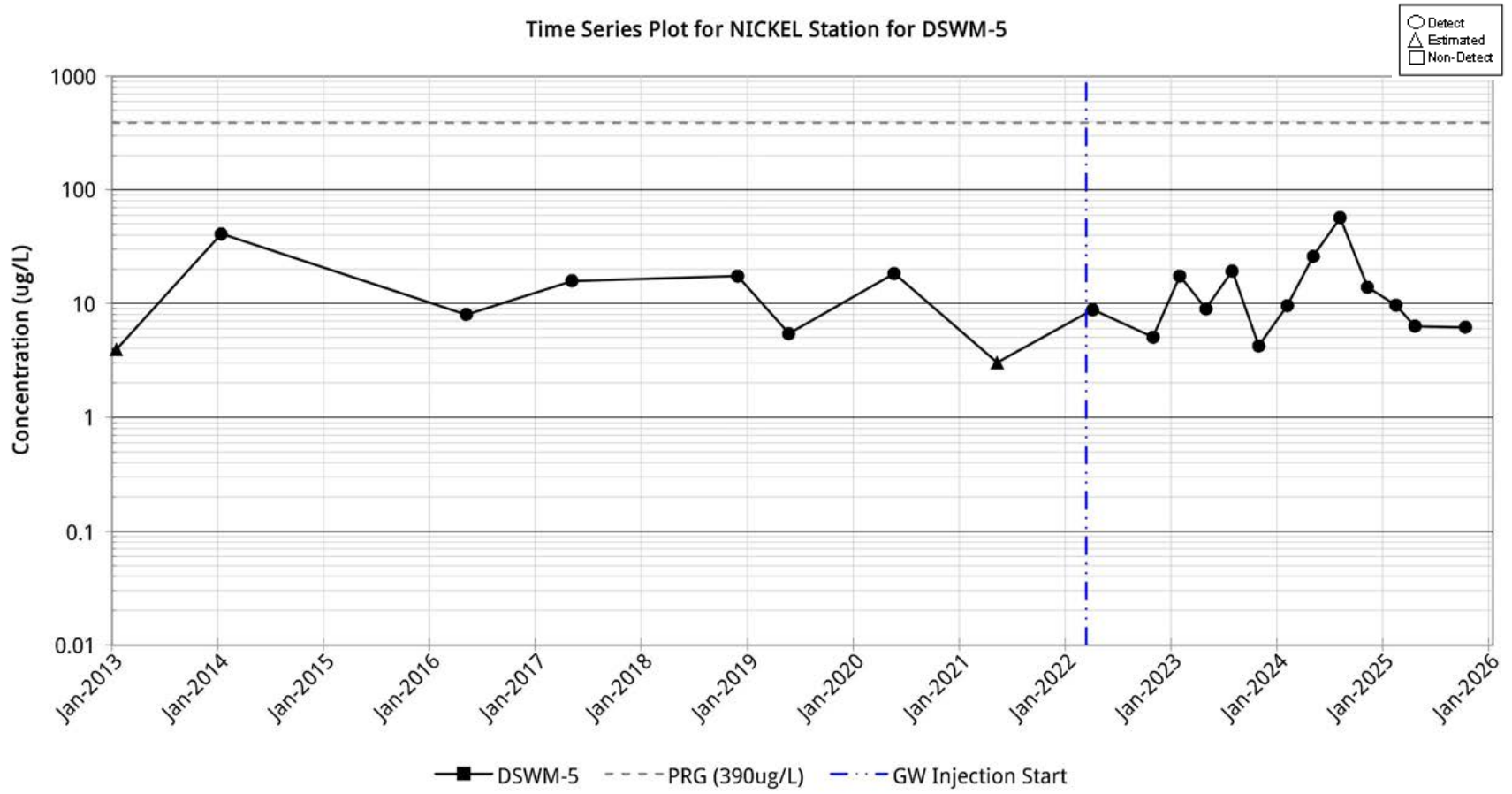
Note: Well DCB078 is a replacement well for DCB 47C

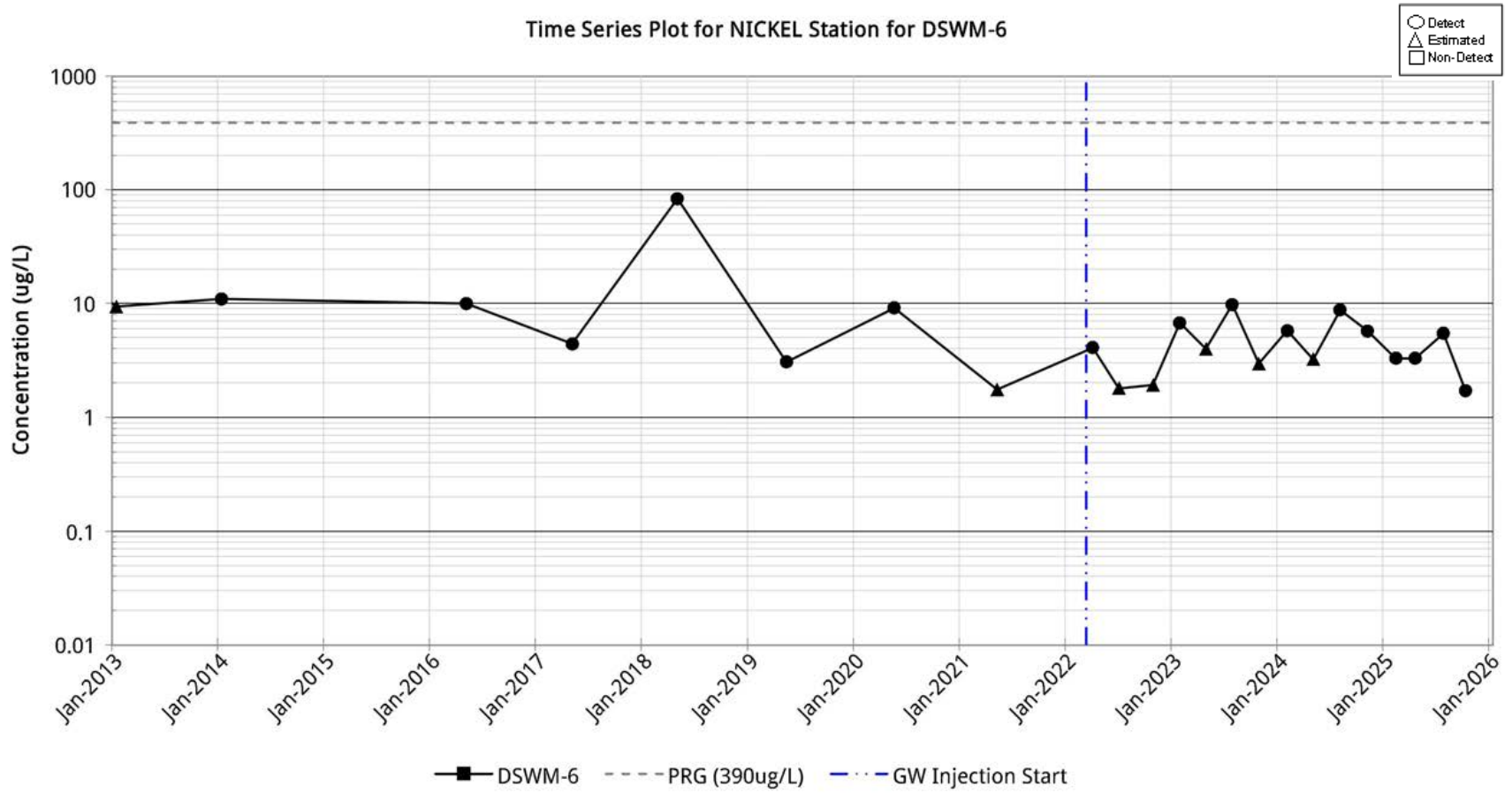

Time Series Plot for NICKEL Station for DCB079
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
PRG (390ug/L)
GW Injection Start

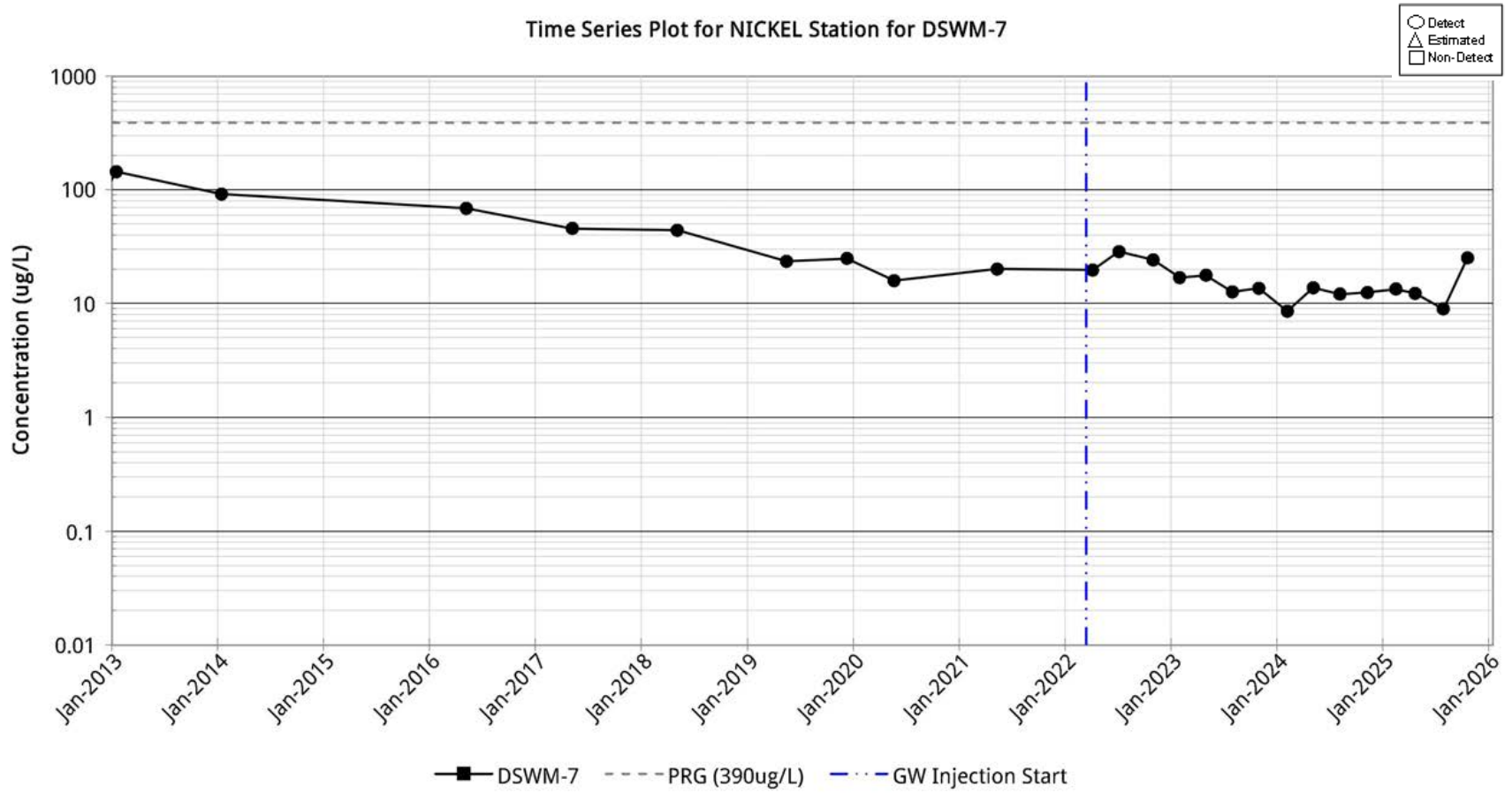

Time Series Plot for NICKEL Station for DCB080
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
PRG (390ug/L)
GW Injection Start

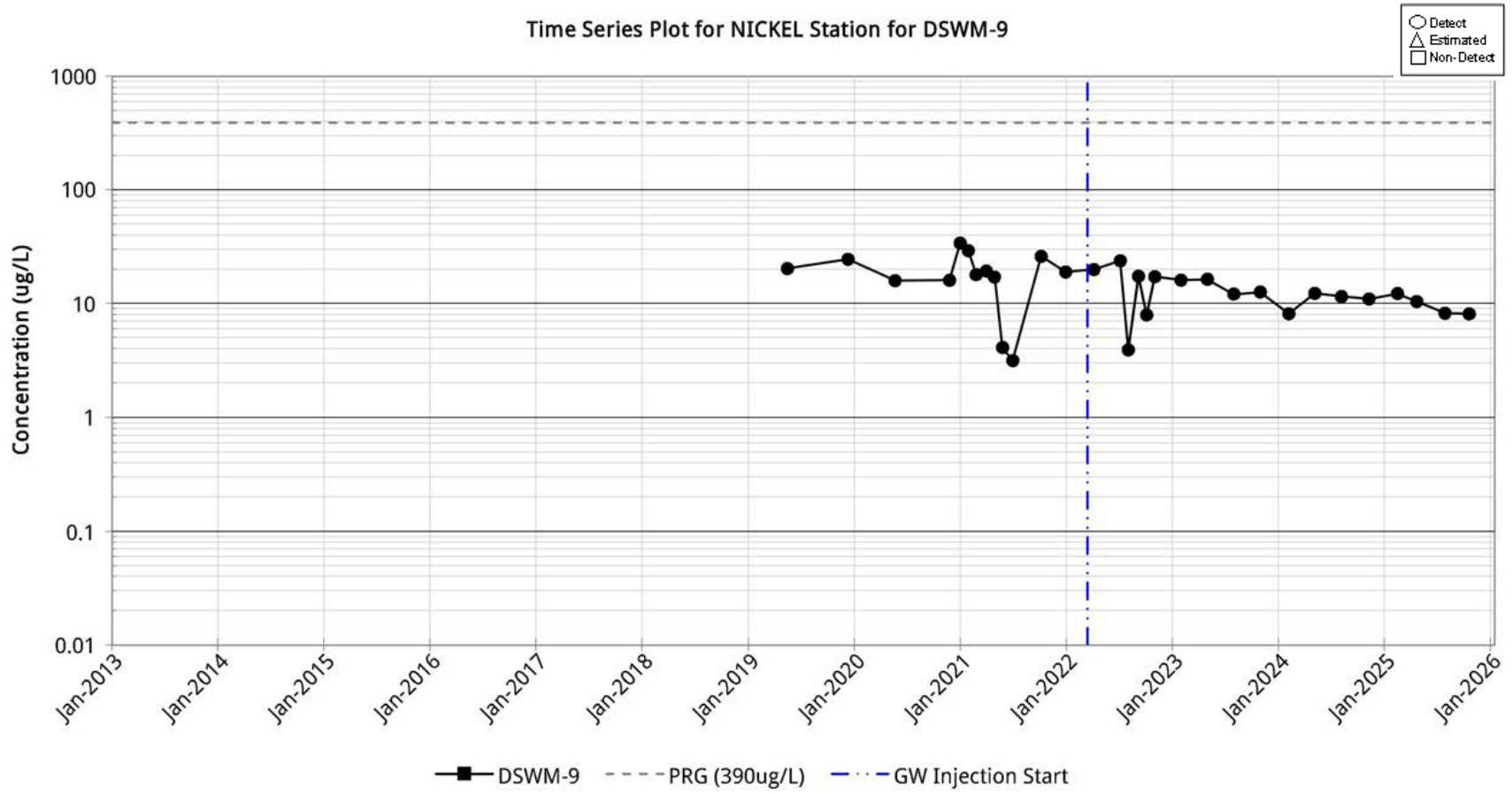

Time Series Plot for NICKEL Station for DCB087
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
PRG (390ug/L)
GW Injection Start

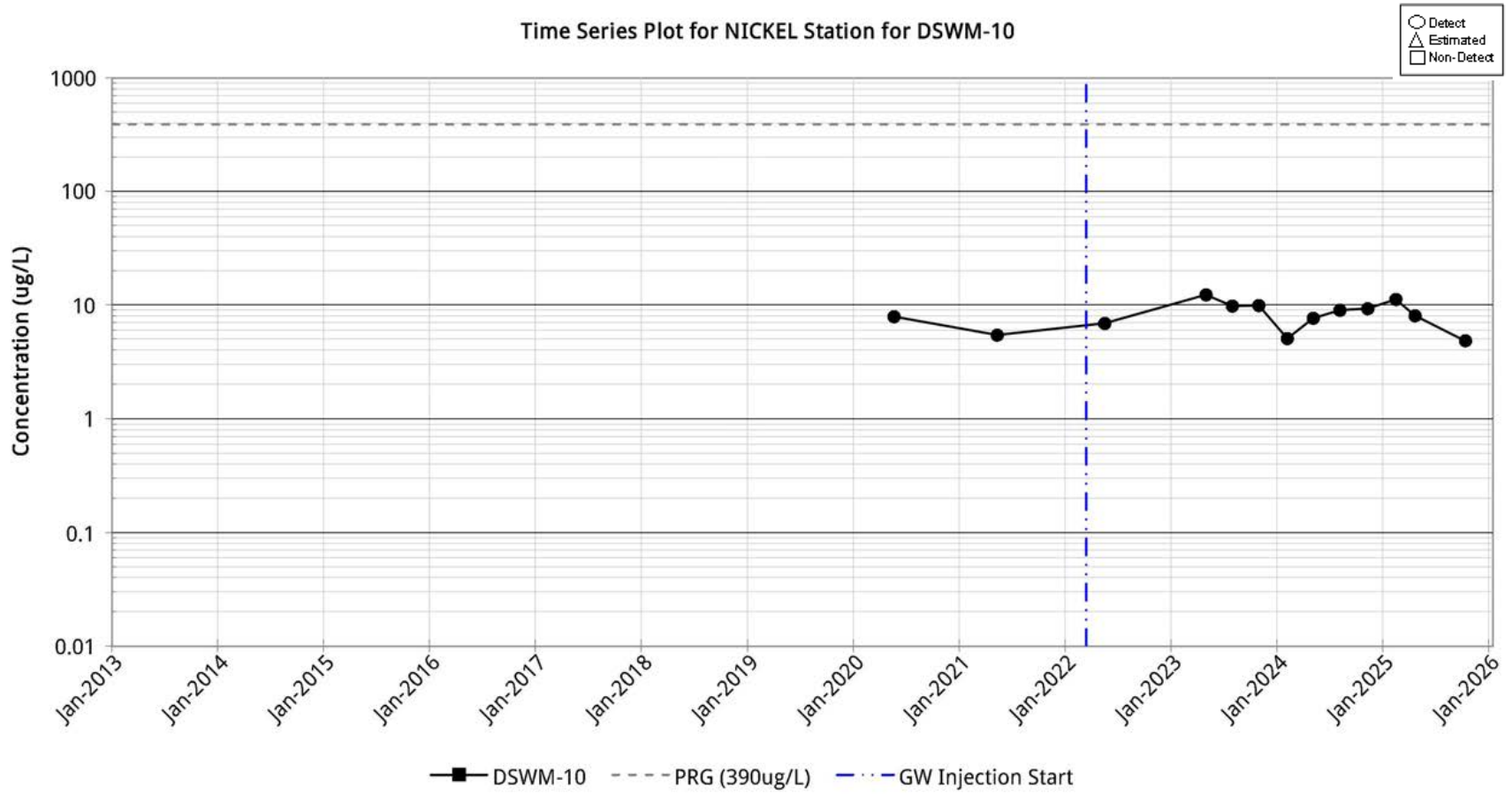

Time Series Plot for NICKEL Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
PRG (390ug/L)
GW Injection Start

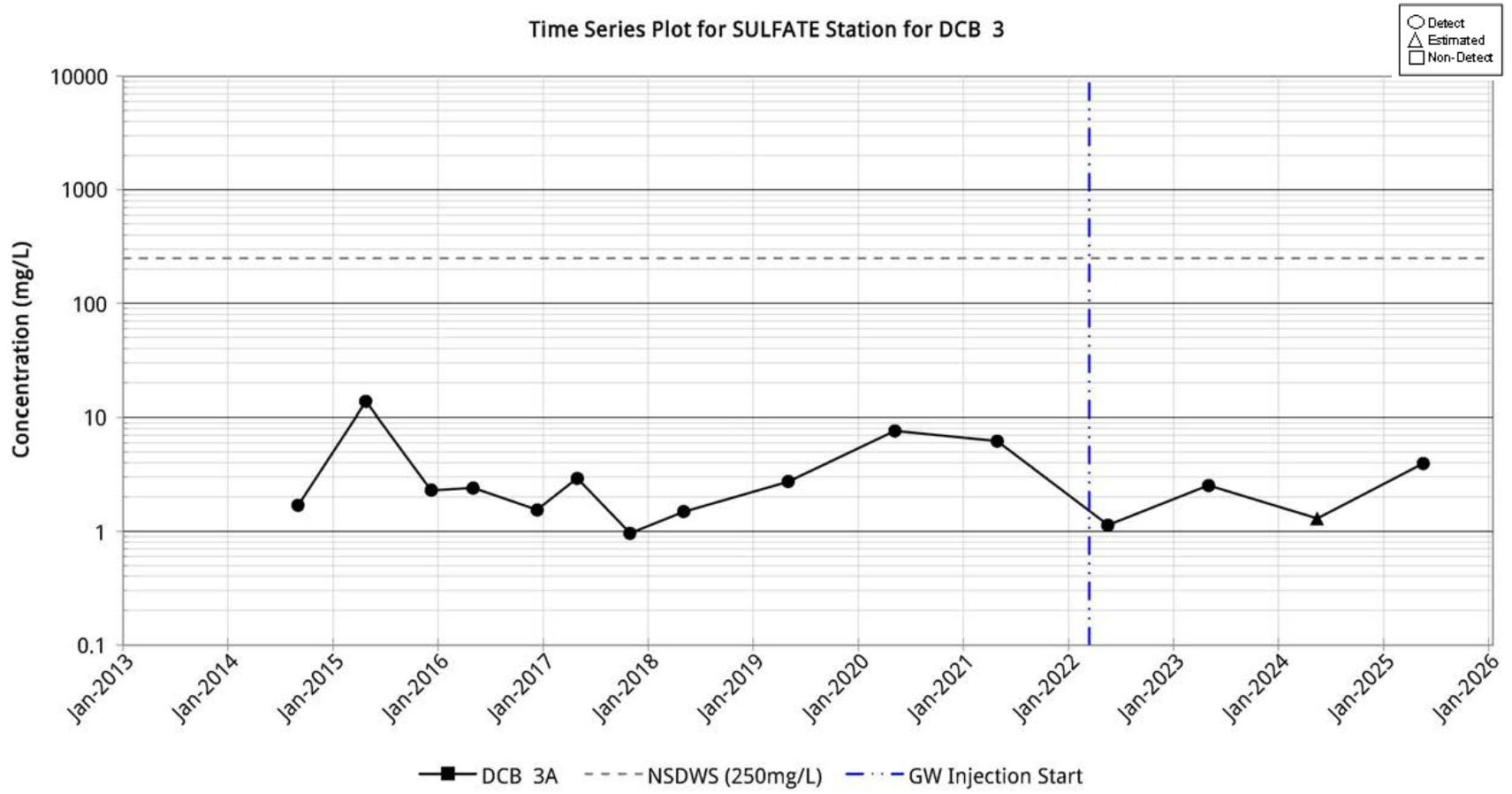

Time Series Plot for NICKEL Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
PRG (390ug/L)
GW Injection Start

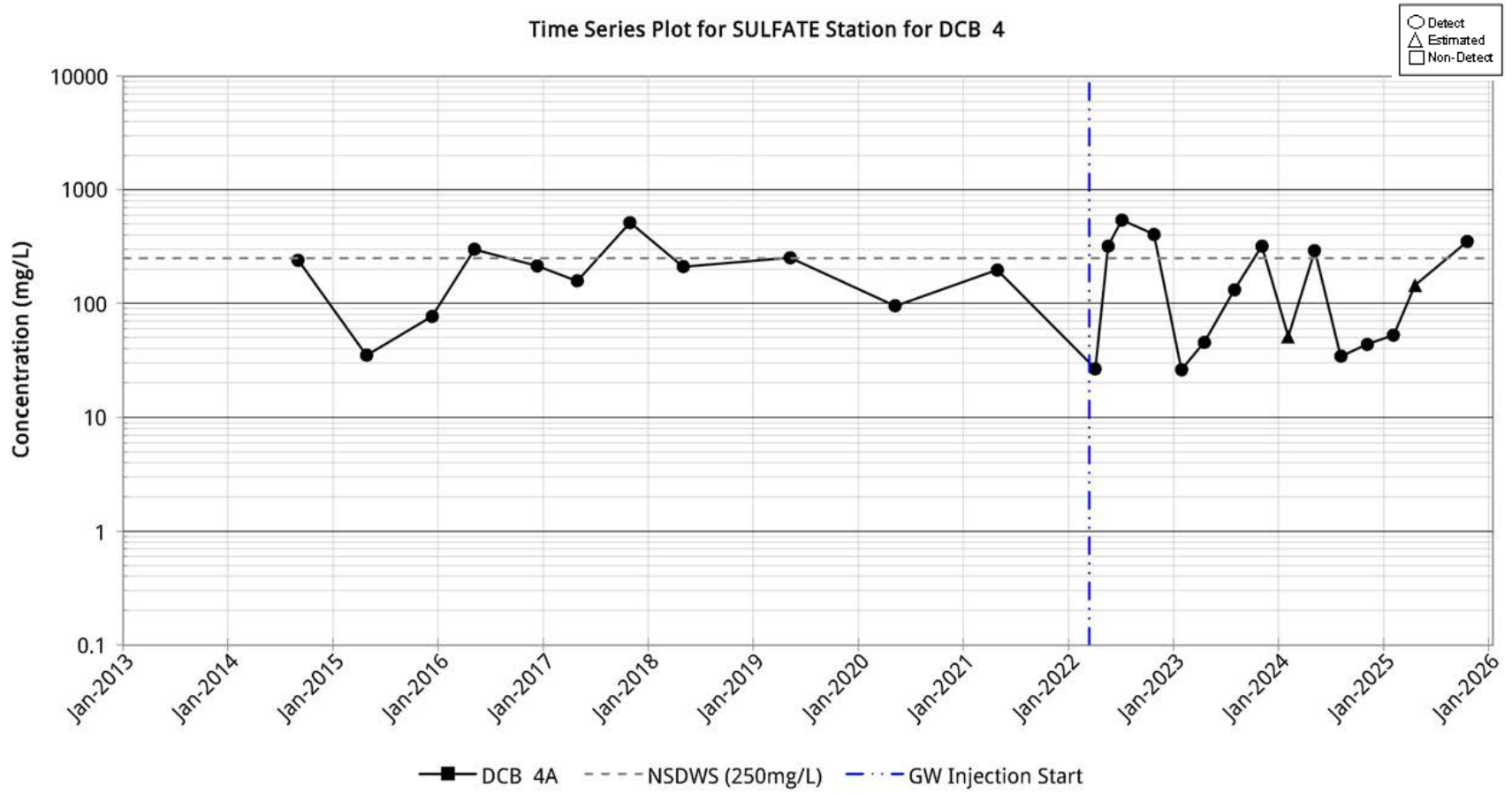

Time Series Plot for NICKEL Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
PRG (390ug/L)
GW Injection Start

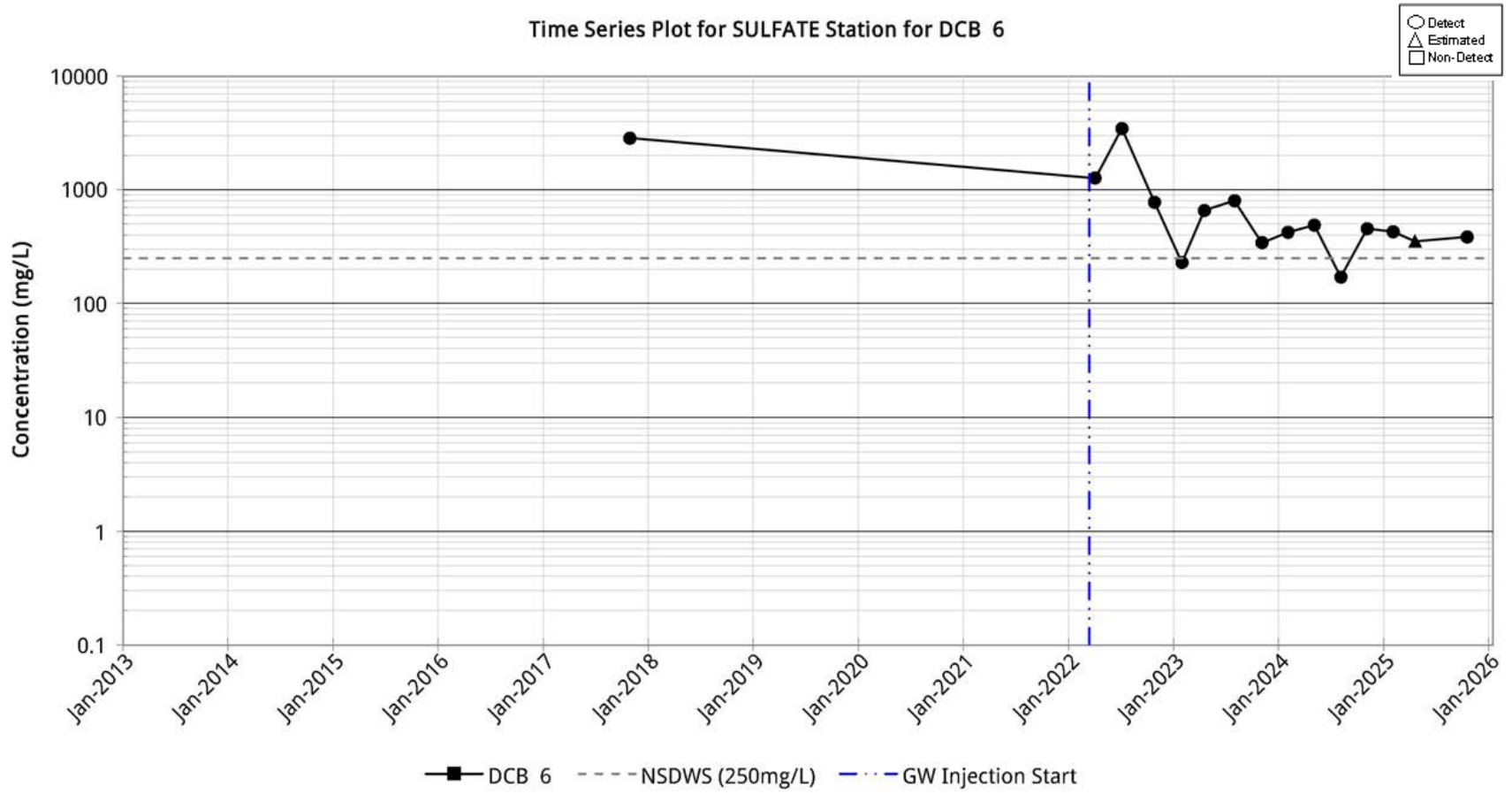

Time Series Plot for NICKEL Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
PRG (390ug/L)
GW Injection Start

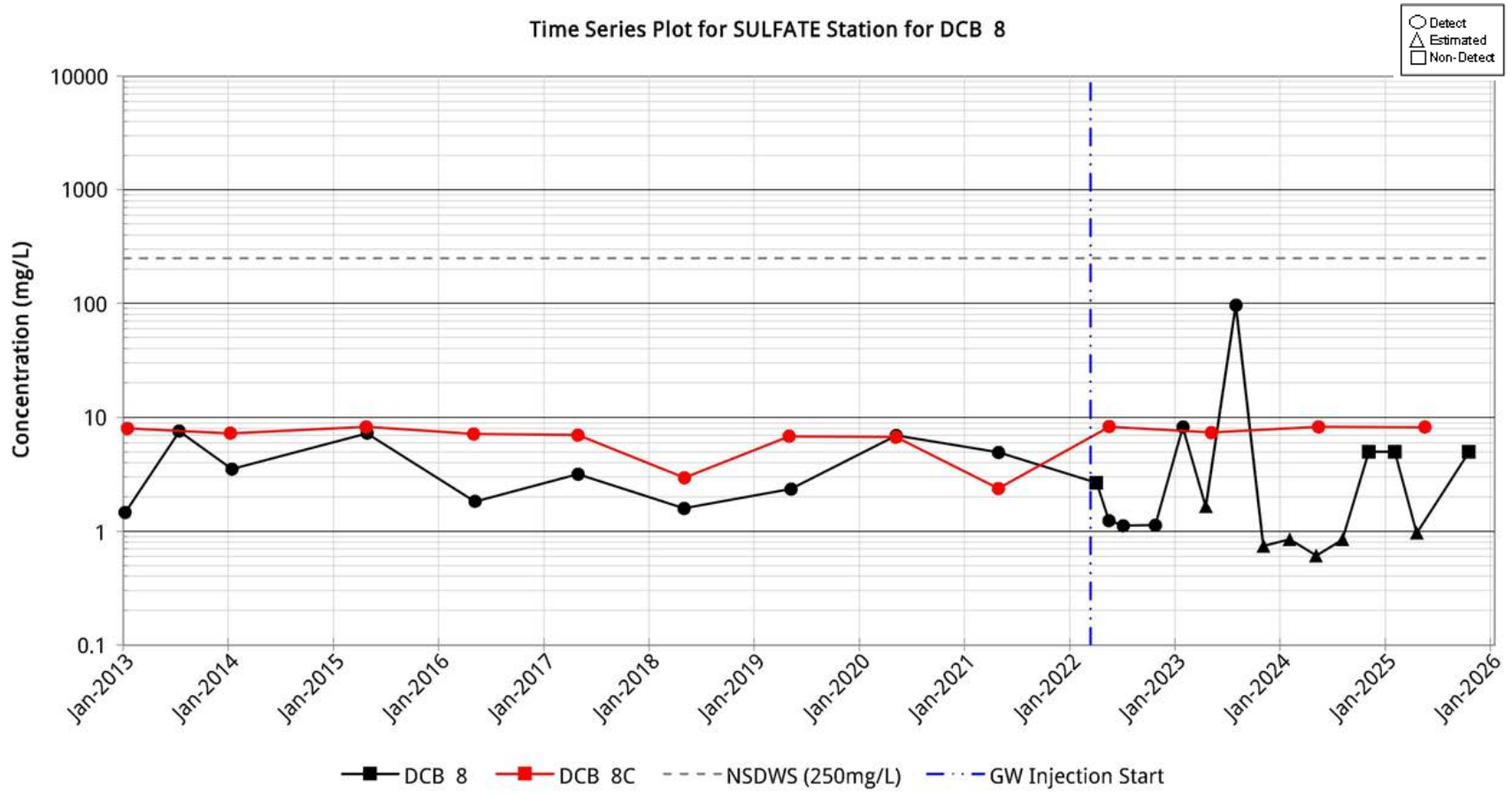

Time Series Plot for NICKEL Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
PRG (390ug/L)
GW Injection Start

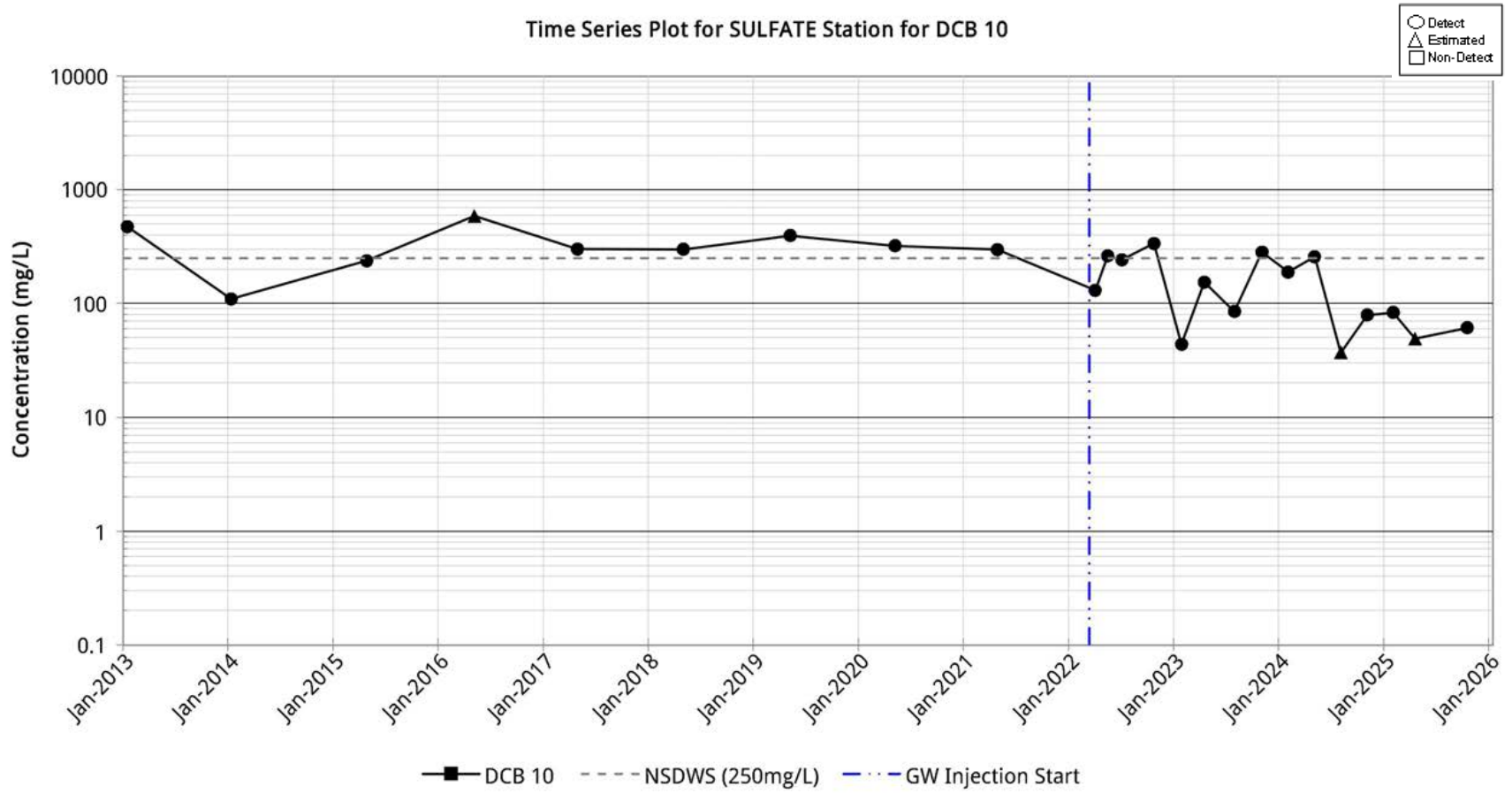

Time Series Plot for NICKEL Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (ug/L)
1000
100
10
1
0.1
0.01
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
PRG (390ug/L)
GW Injection Start

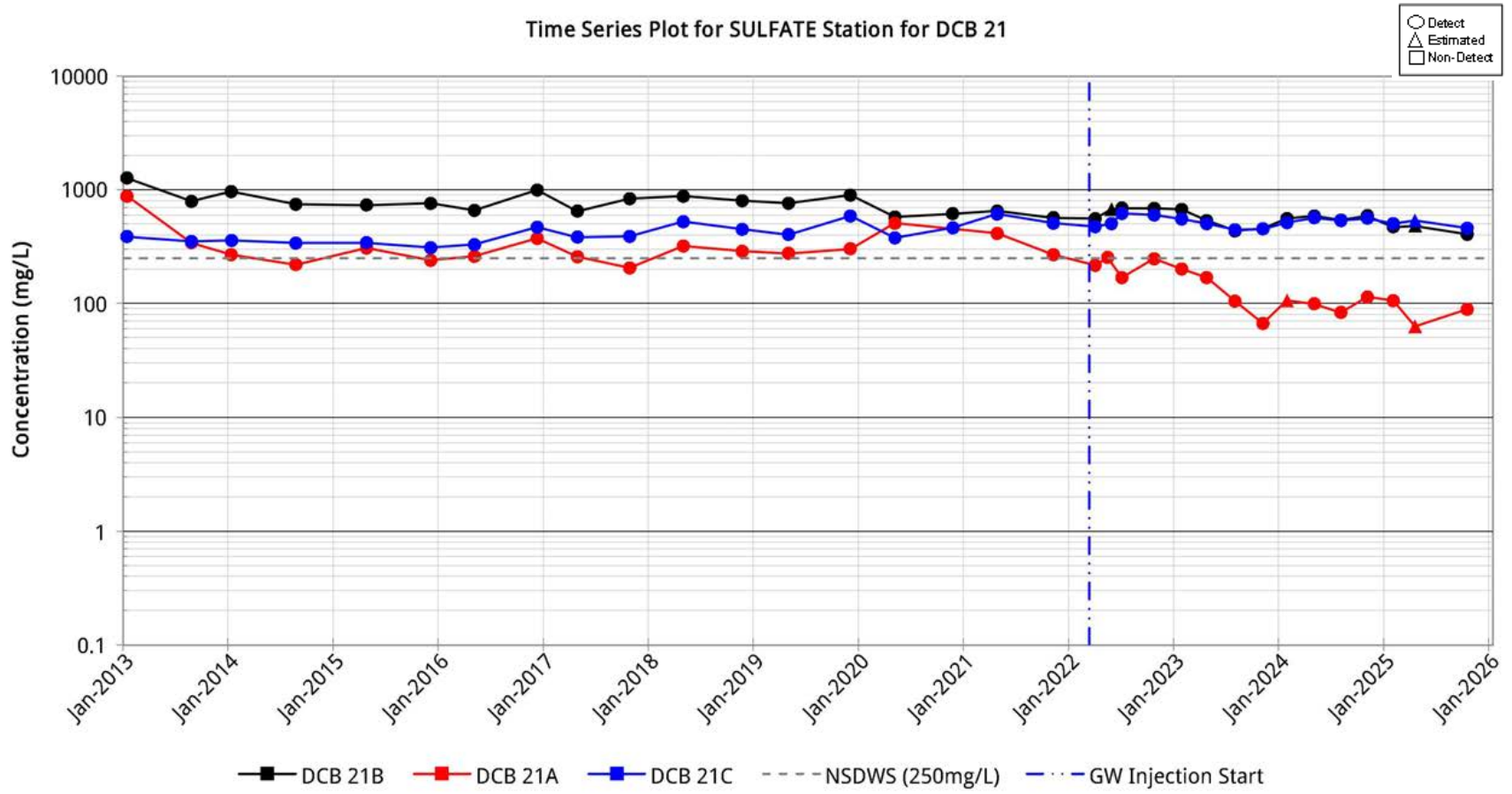

Time Series Plot for SULFATE Station for DCB 3
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 3A
NSDWS (250mg/L)
GW Injection Start

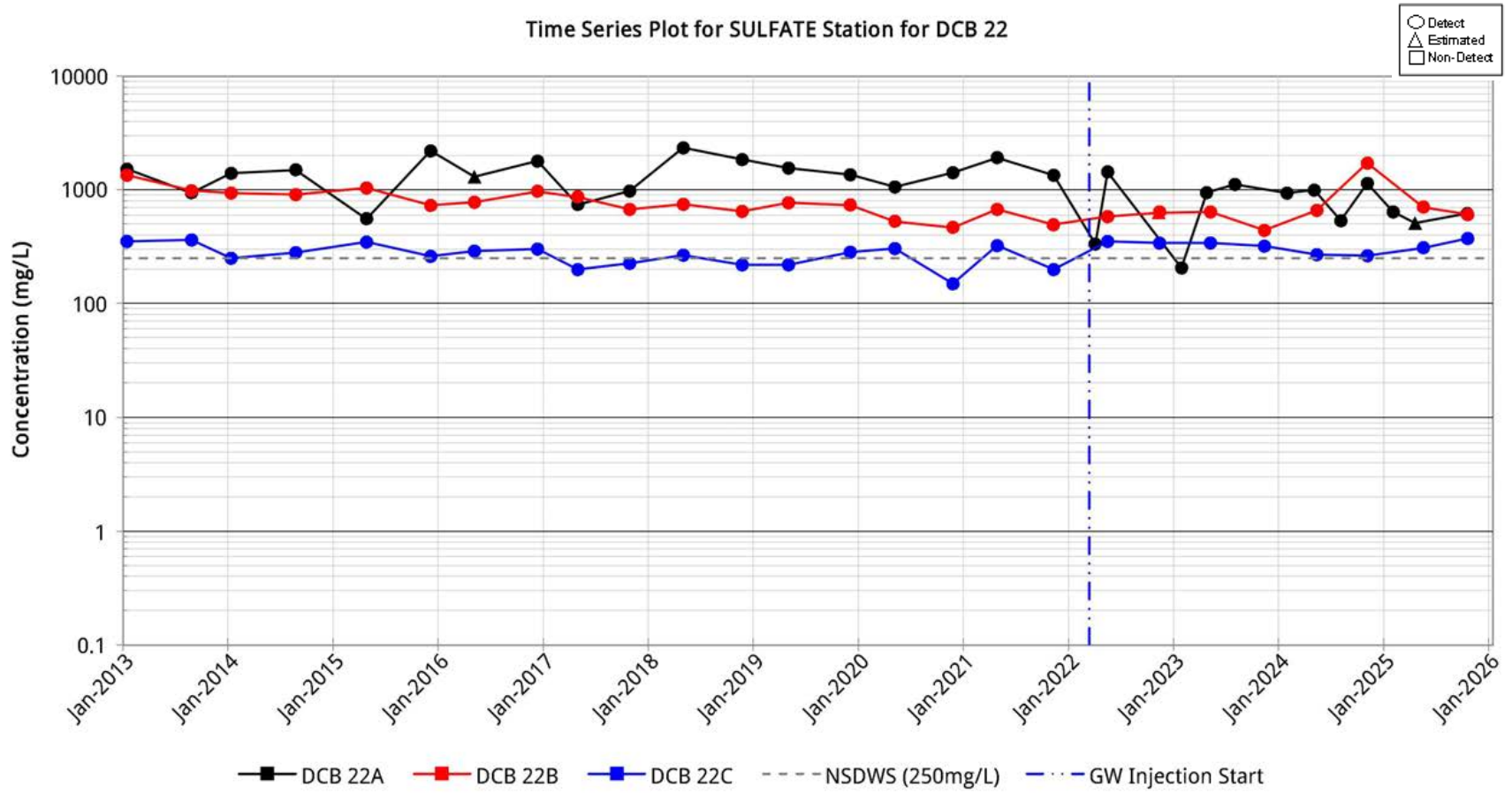

Time Series Plot for SULFATE Station for DCB 4
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 4A
NSDWS (250mg/L)
GW Injection Start

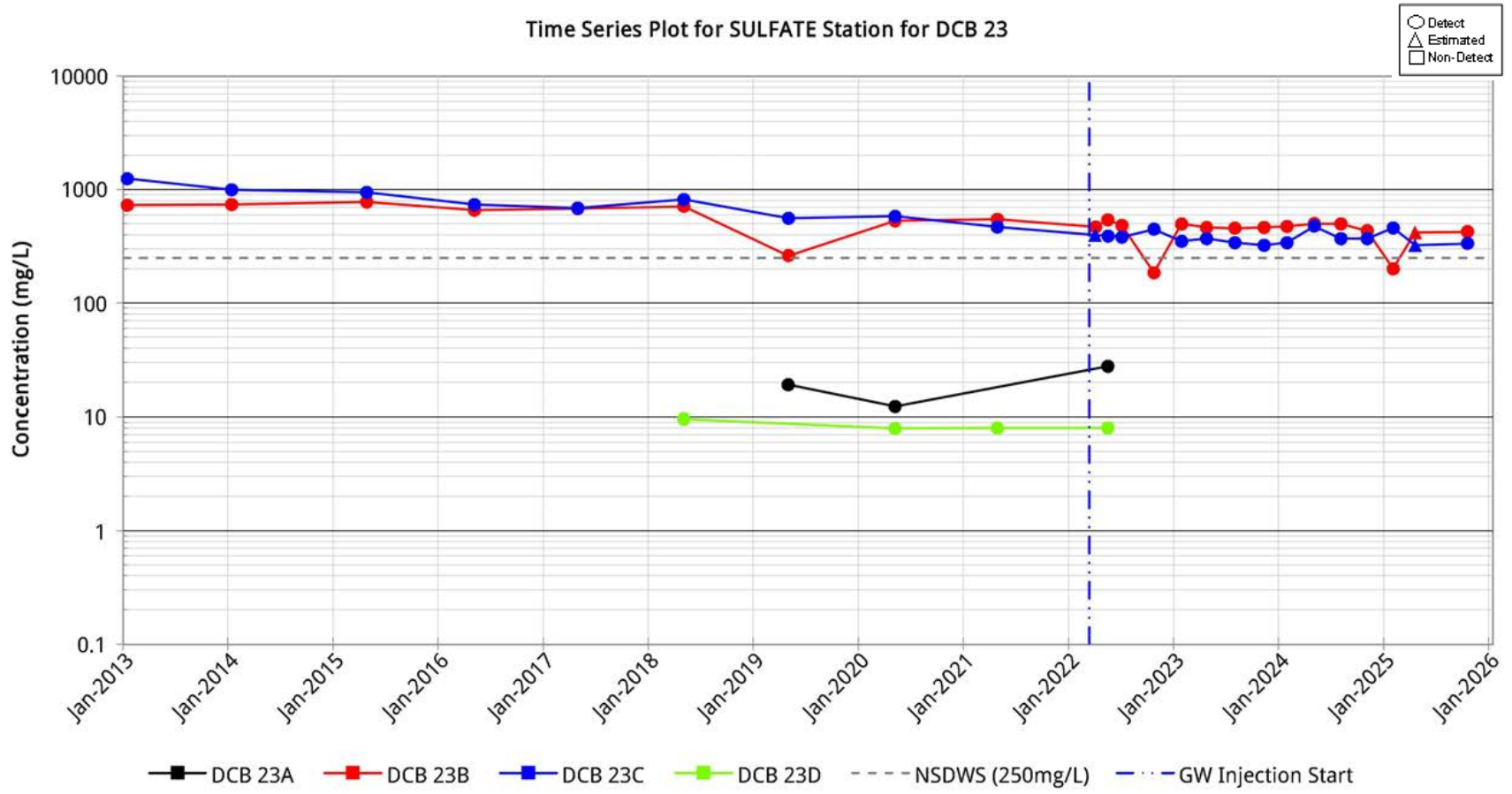

Time Series Plot for SULFATE Station for DCB 6
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 6
NSDWS (250mg/L)
GW Injection Start

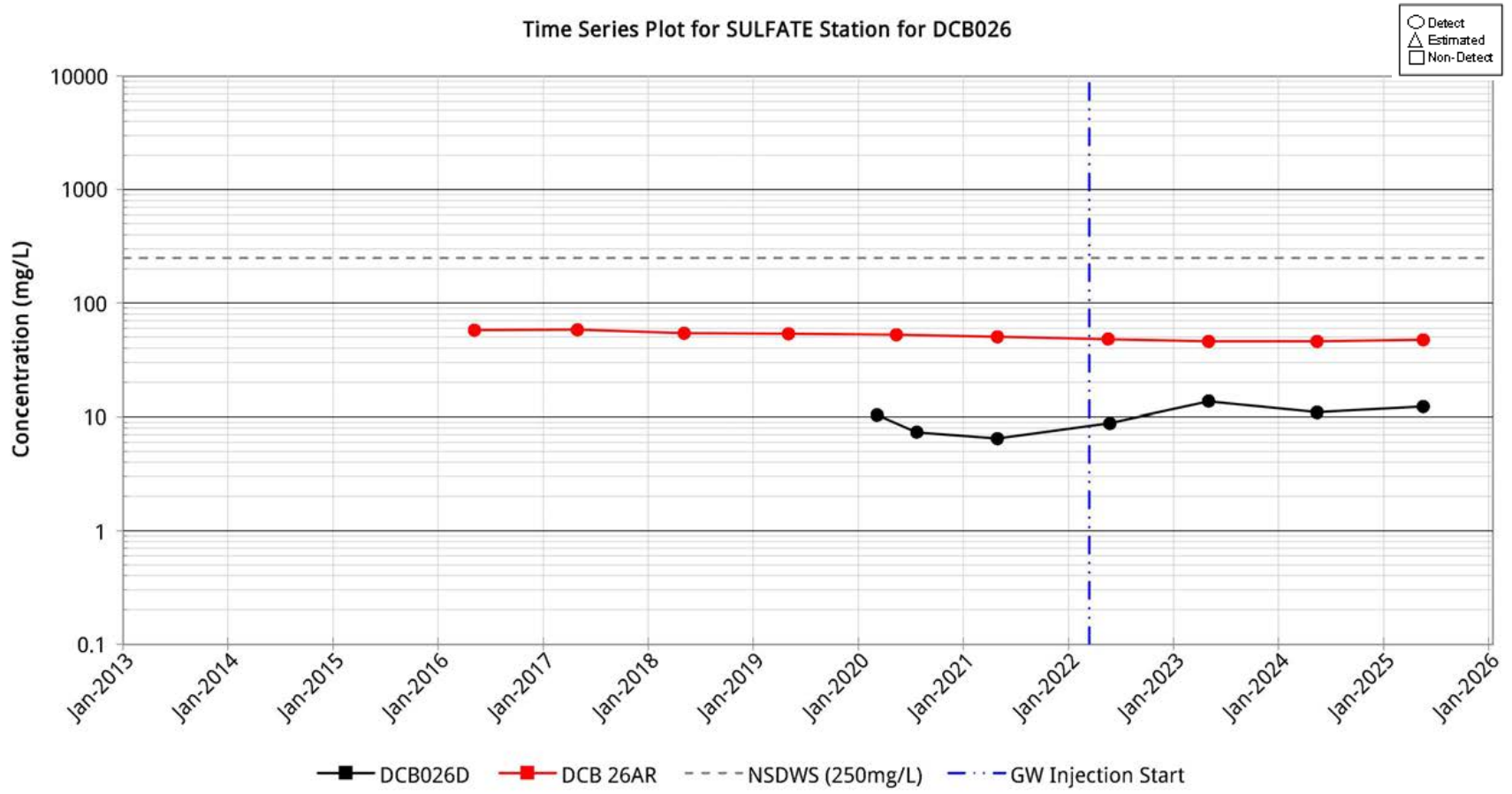

Time Series Plot for SULFATE Station for DCB 8
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 8
DCB 8C
NSDWS (250mg/L)
GW Injection Start

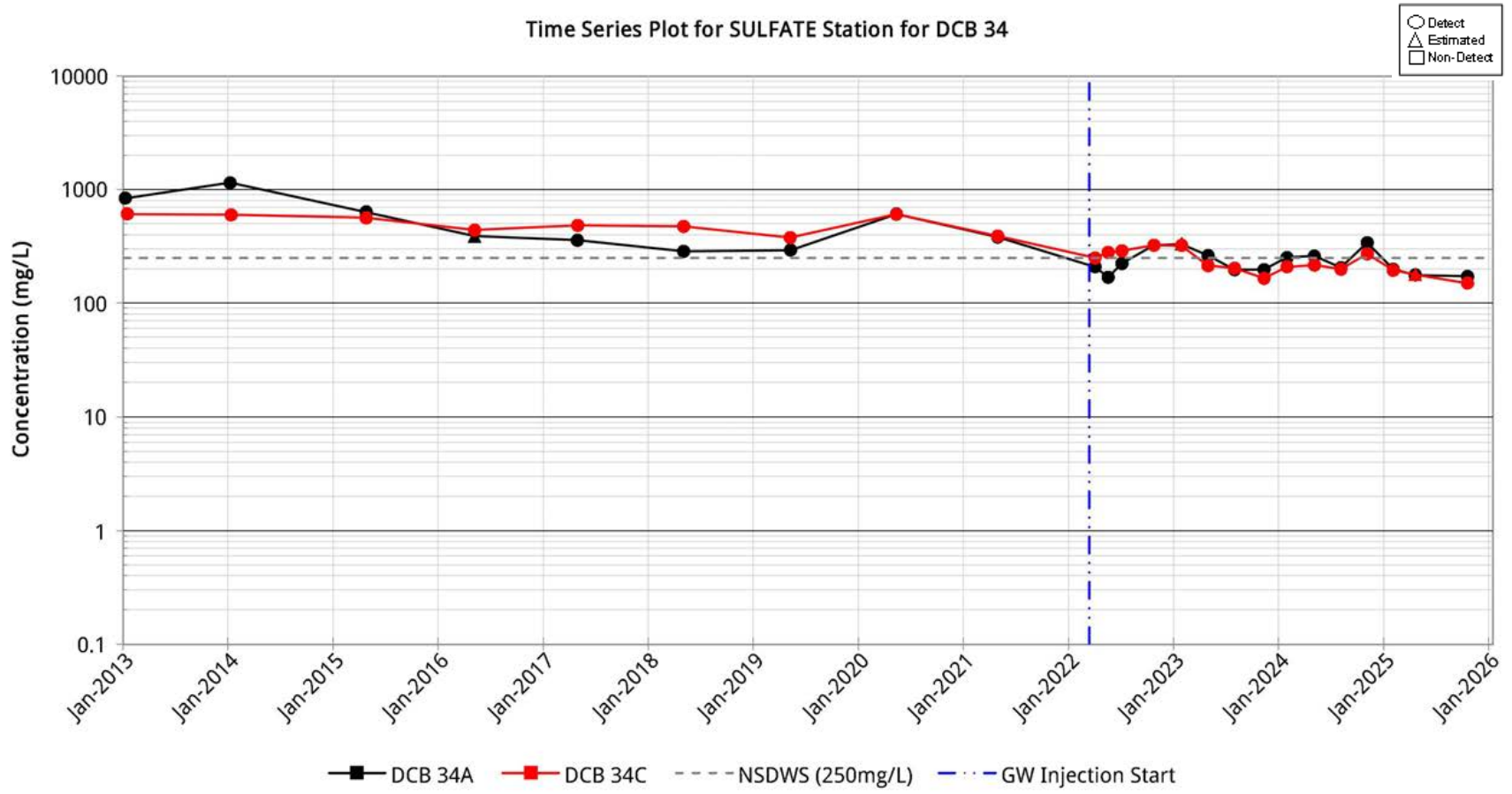

Time Series Plot for SULFATE Station for DCB 10
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 10
NSDWS (250mg/L)
GW Injection Start

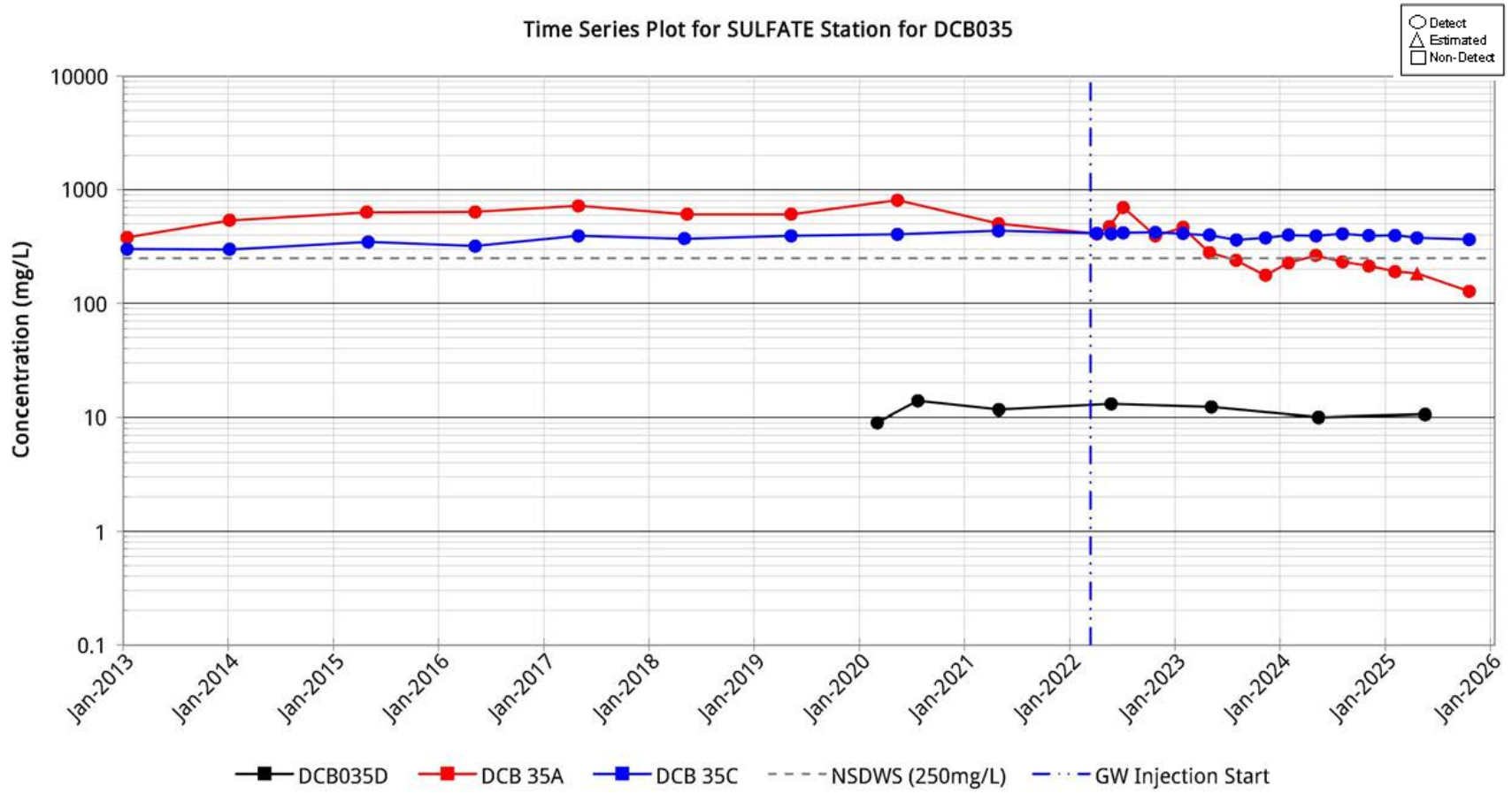

Time Series Plot for SULFATE Station for DCB 21
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 21B
DCB 21A
DCB 21C
NSDWS (250mg/L)
GW Injection Start

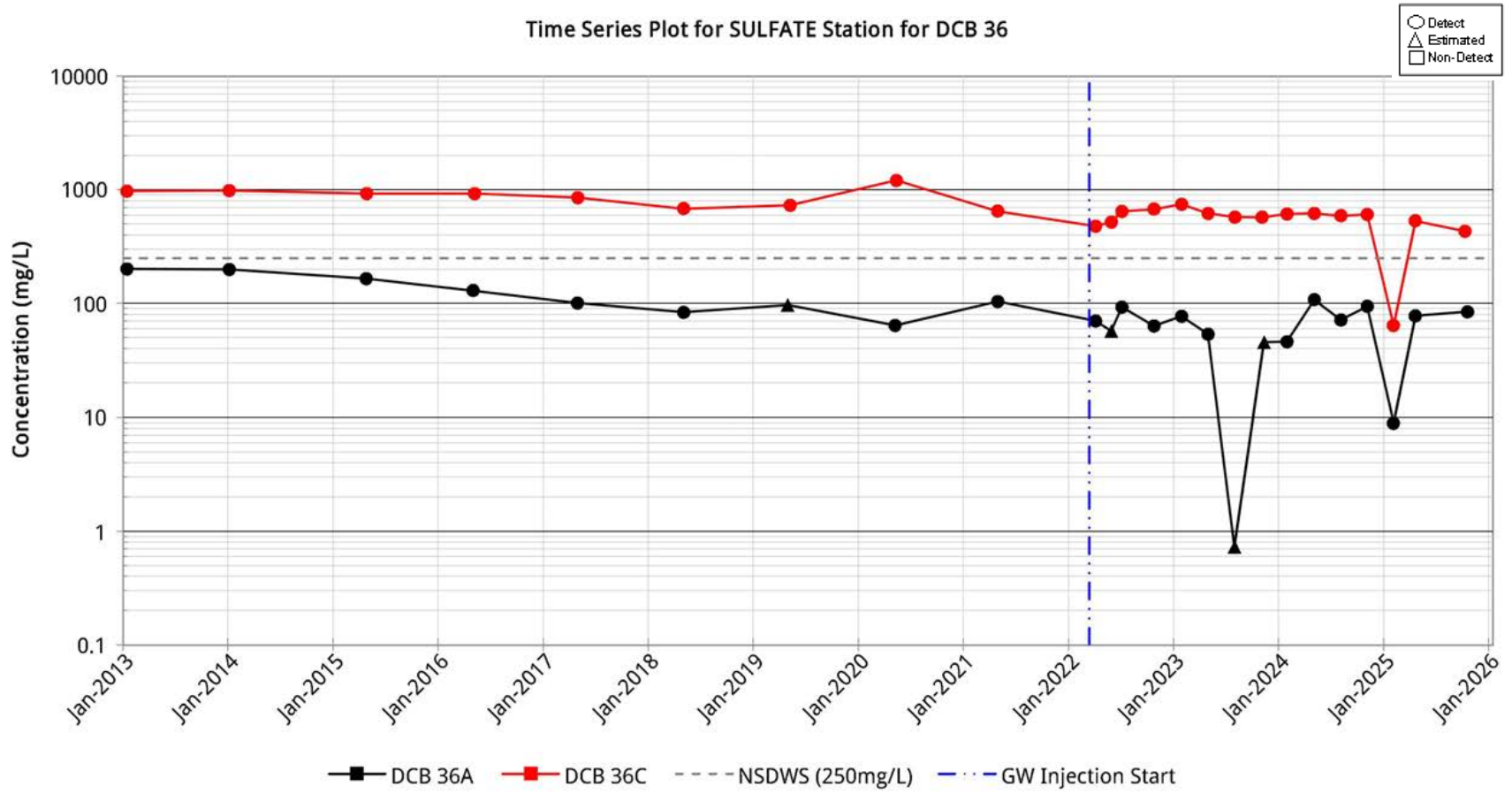

Time Series Plot for SULFATE Station for DCB 22
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 22A
DCB 22B
DCB 22C
NSDWS (250mg/L)
GW Injection Start

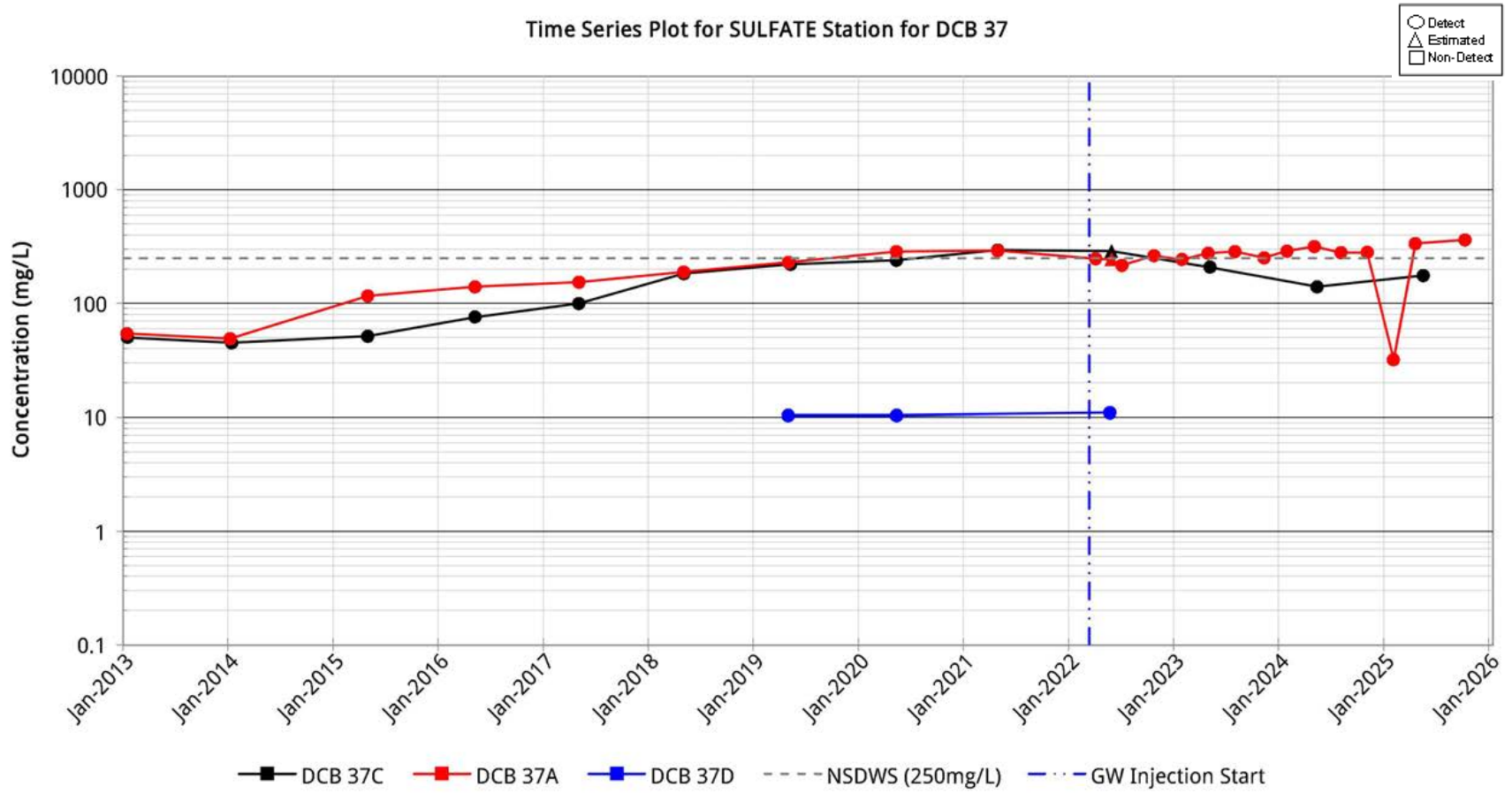

Time Series Plot for SULFATE Station for DCB 23
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 23A
DCB 23B
DCB 23C
DCB 23D
NSDWS (250mg/L)
GW Injection Start

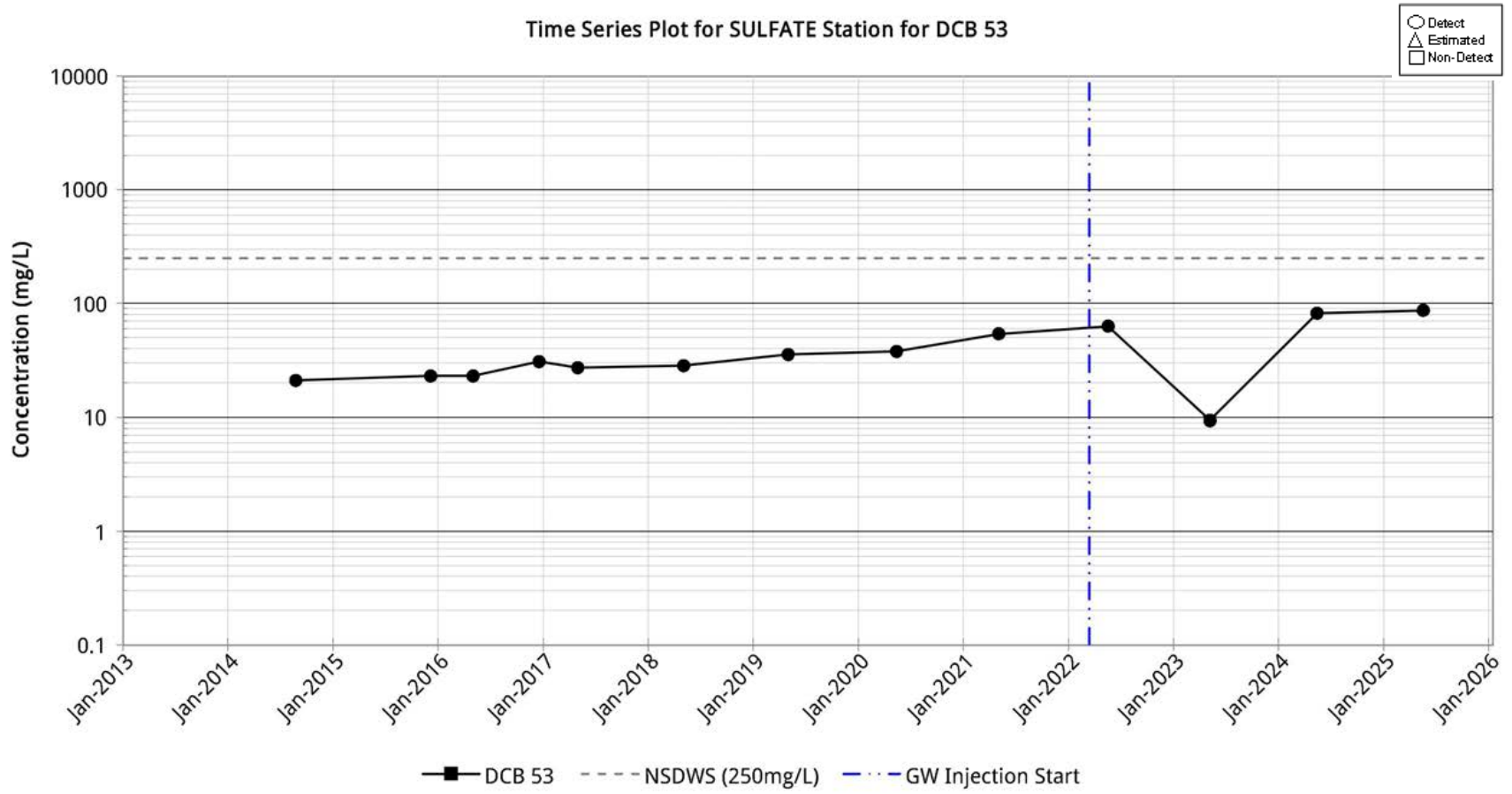

Time Series Plot for SULFATE Station for DCB026
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB026D
DCB 26AR
NSDWS (250mg/L)
GW Injection Start

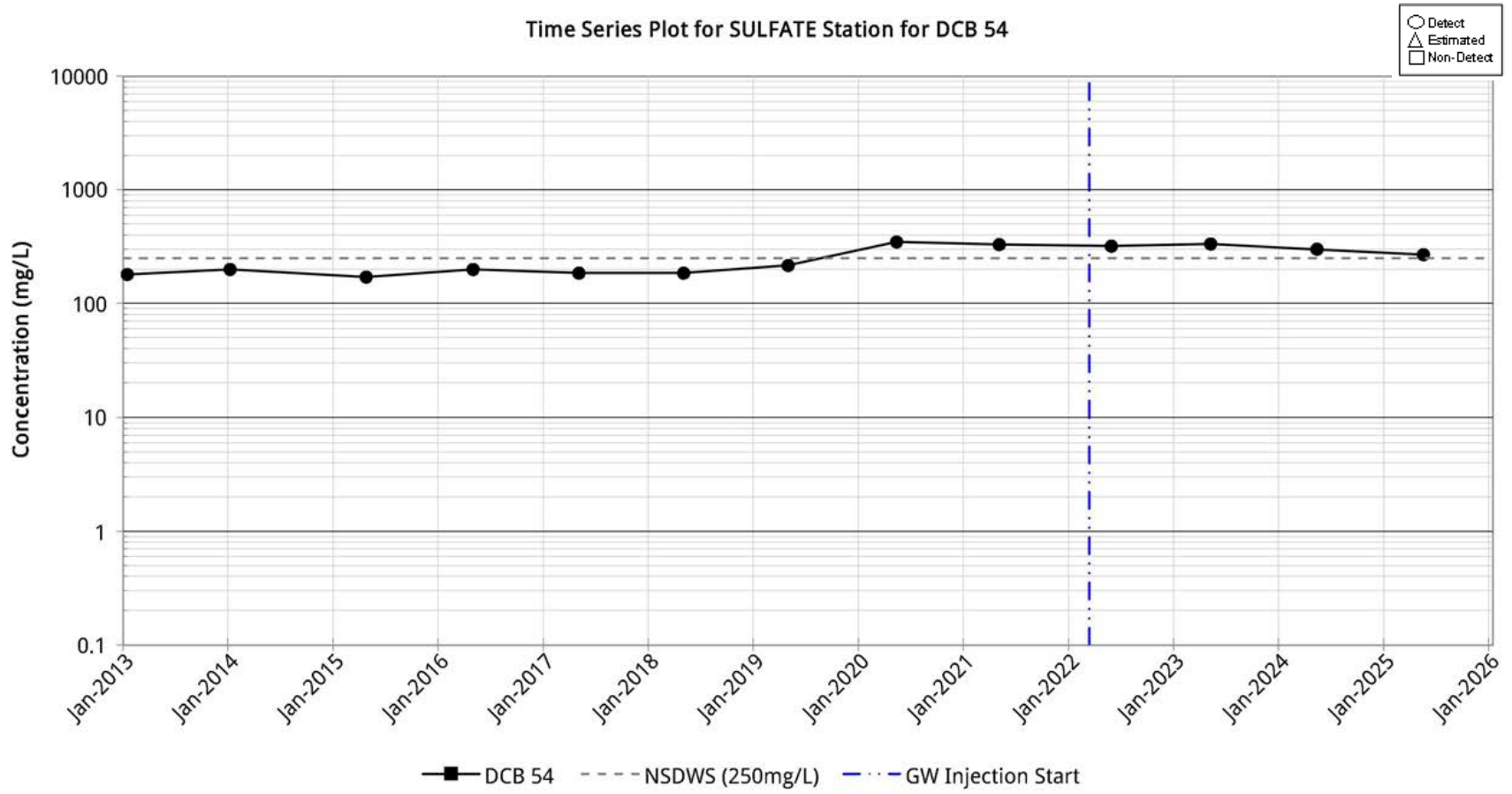

Time Series Plot for SULFATE Station for DCB 34
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 34A
DCB 34C
NSDWS (250mg/L)
GW Injection Start

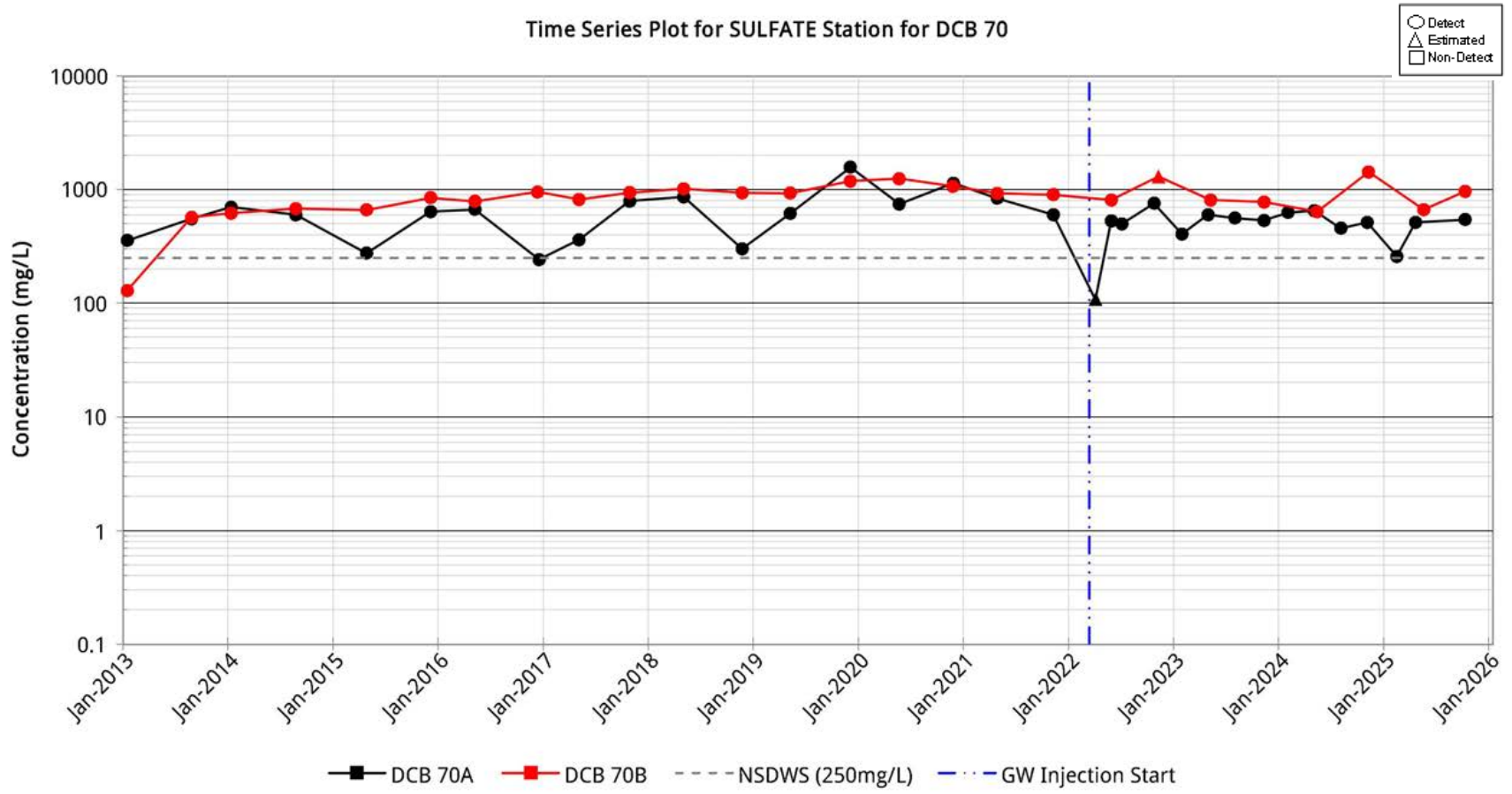

Time Series Plot for SULFATE Station for DCB035
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB035D
DCB 35A
DCB 35C
NSDWS (250mg/L)
GW Injection Start

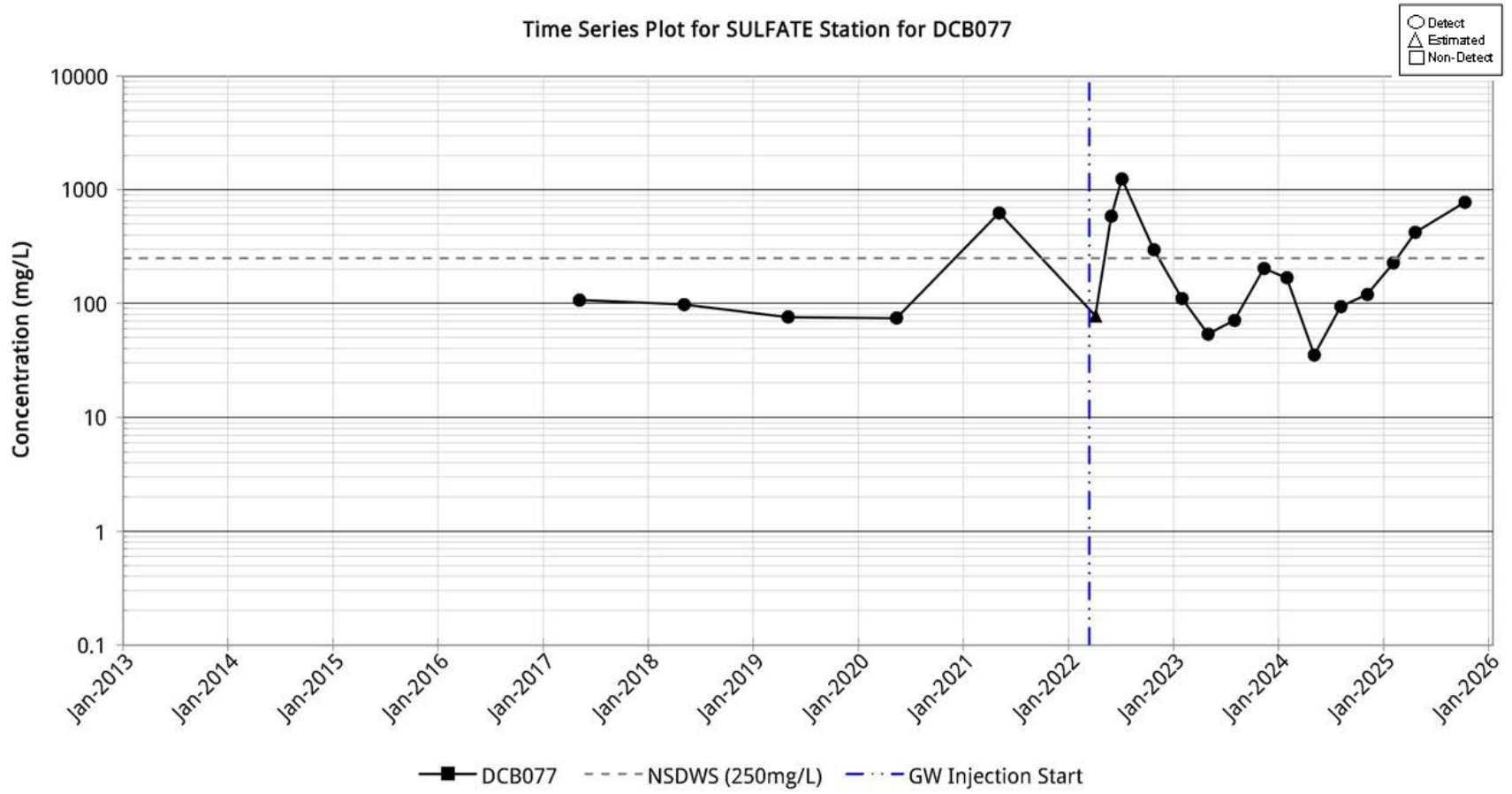

Time Series Plot for SULFATE Station for DCB 36
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 36A
DCB 36C
NSDWS (250mg/L)
GW Injection Start

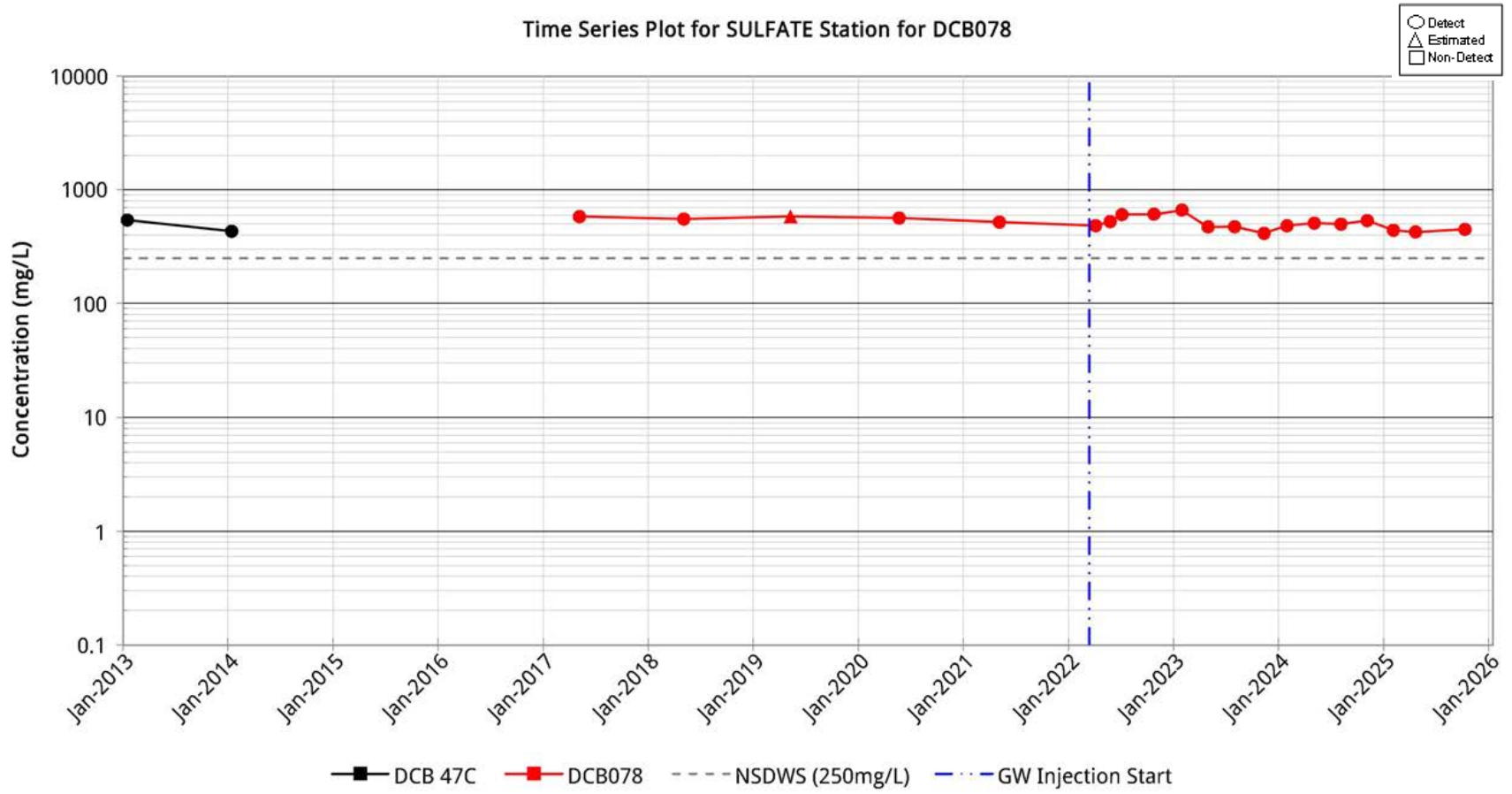

Time Series Plot for SULFATE Station for DCB 37
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 37C
DCB 37A
DCB 37D
NSDWS (250mg/L)
GW Injection Start


Time Series Plot for SULFATE Station for DCB 53
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 53
NSDWS (250mg/L)
GW Injection Start

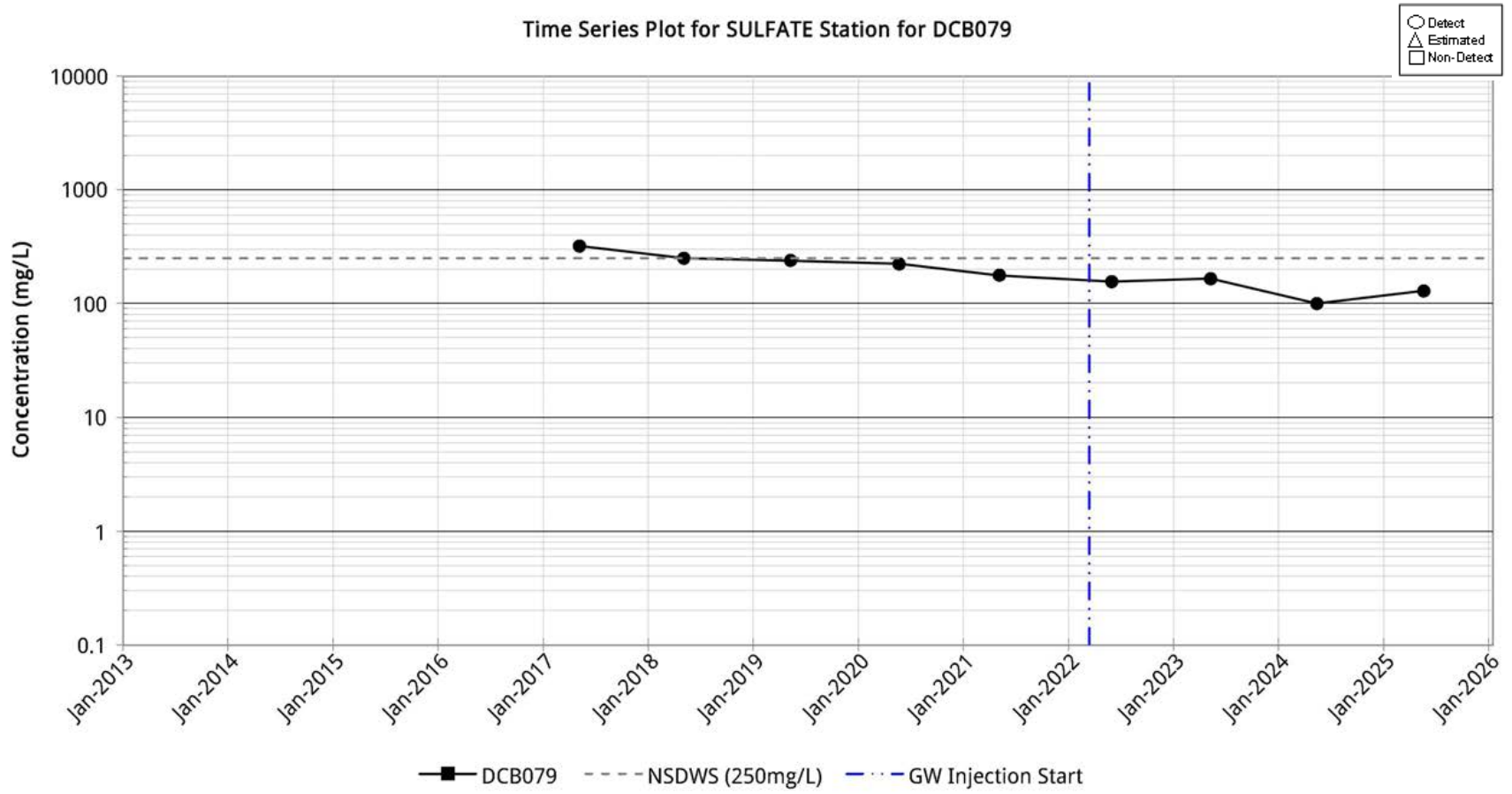

Time Series Plot for SULFATE Station for DCB 54
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 54
NSDWS (250mg/L)
GW Injection Start

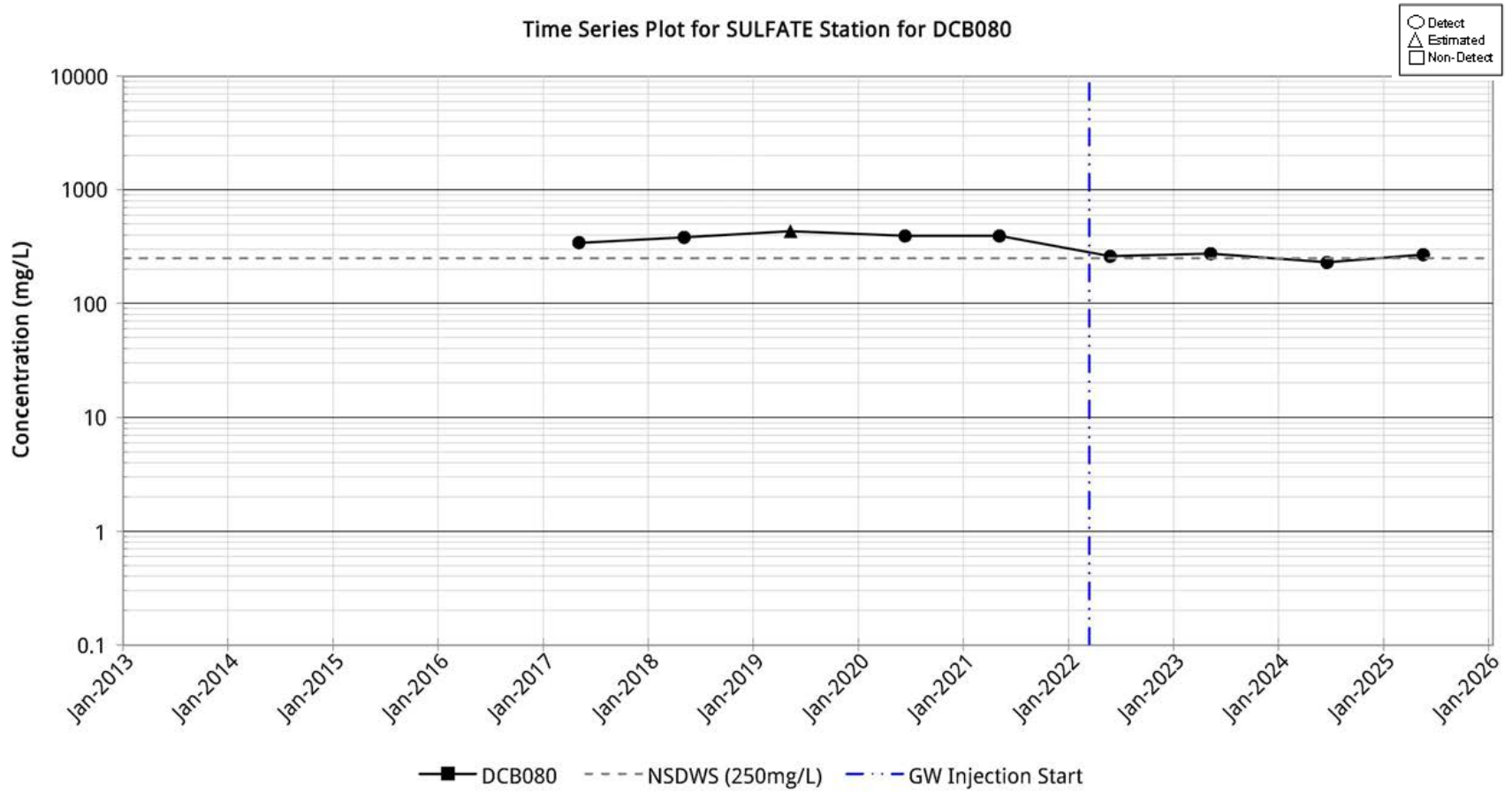

Time Series Plot for SULFATE Station for DCB 70
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB 70A
DCB 70B
NSDWS (250mg/L)
GW Injection Start

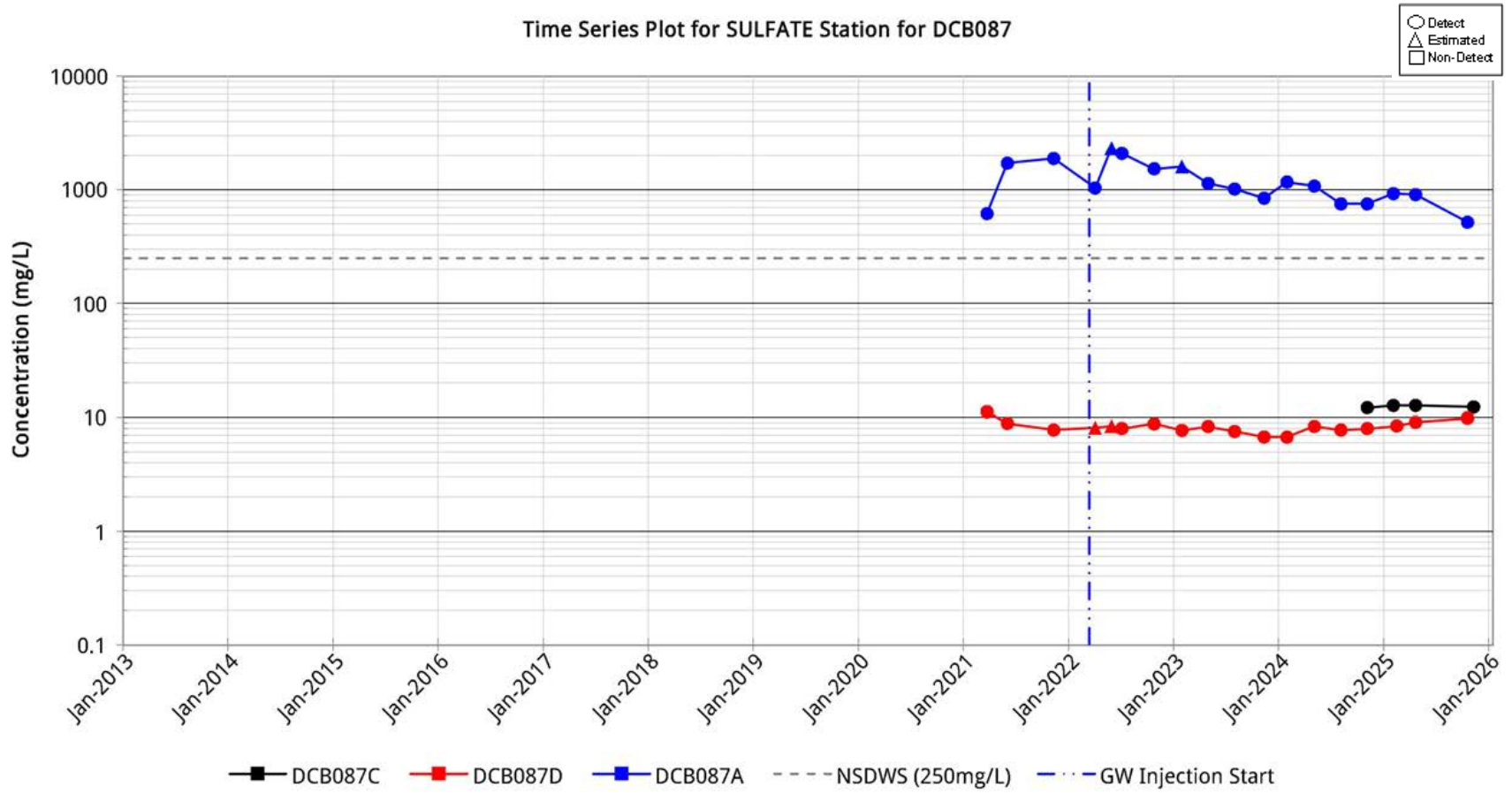

Time Series Plot for SULFATE Station for DCB077
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB077
NSDWS (250mg/L)
GW Injection Start

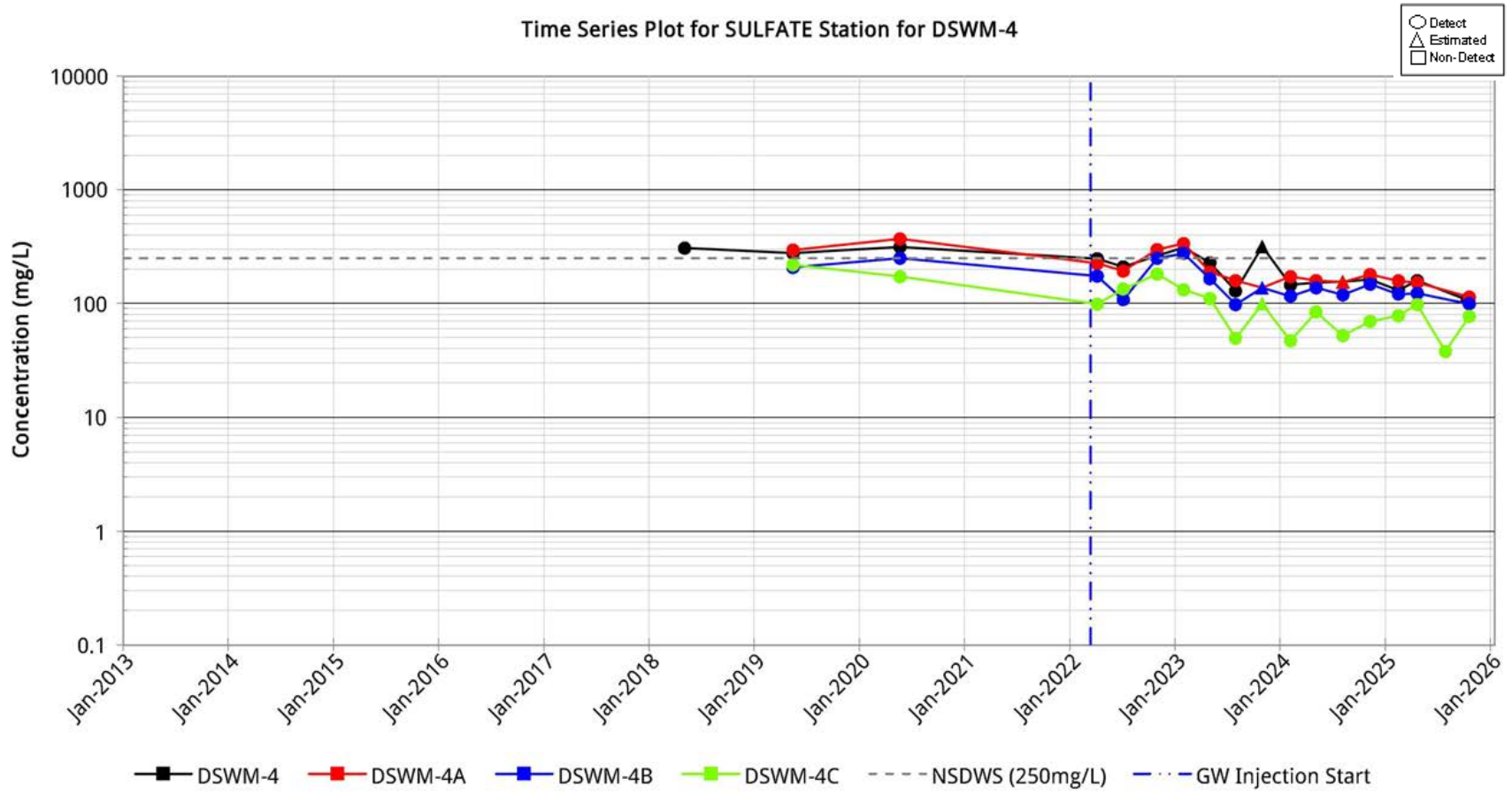


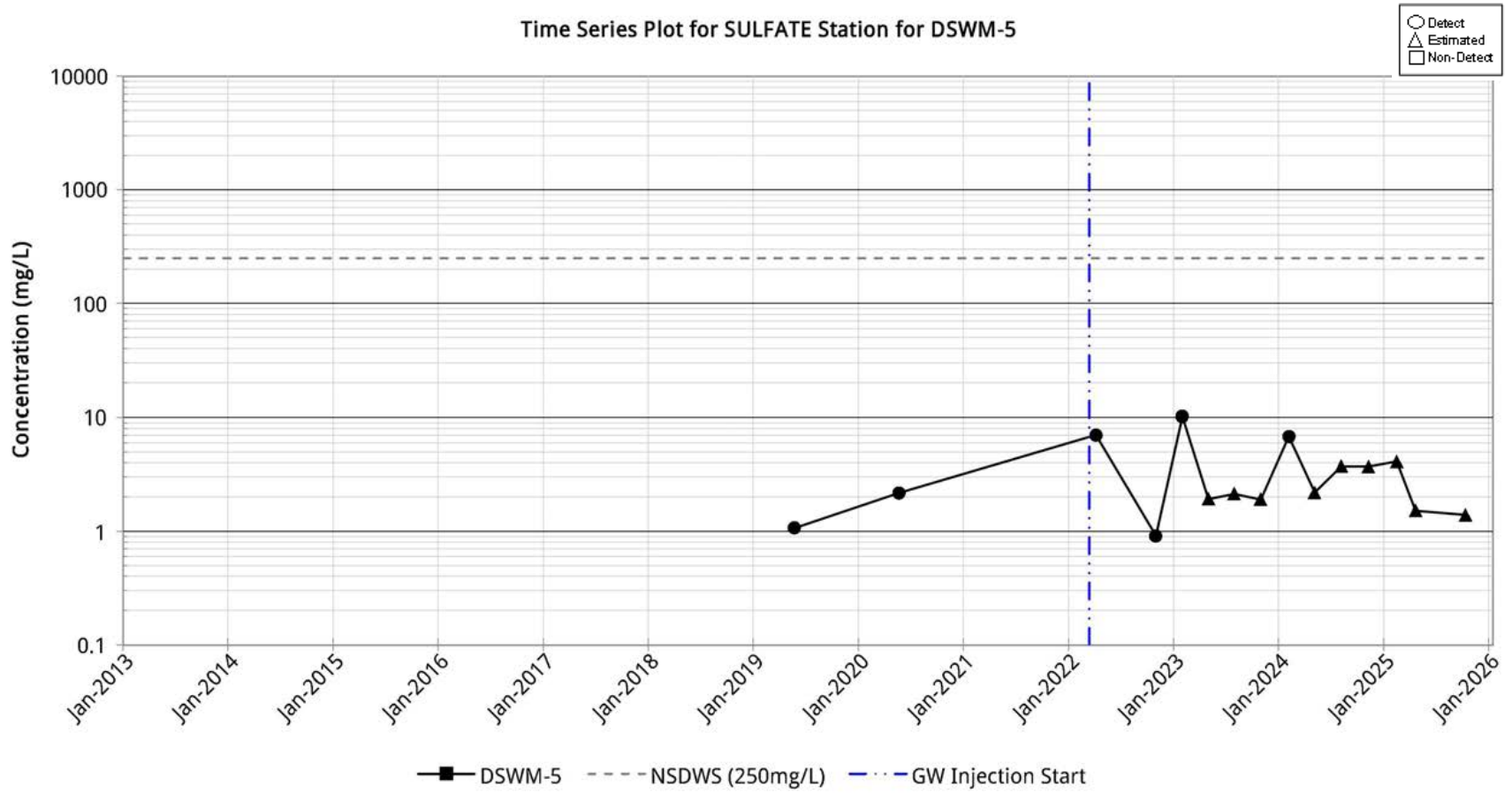
Note: Well DCB078 is a replacement well for DCB 47C

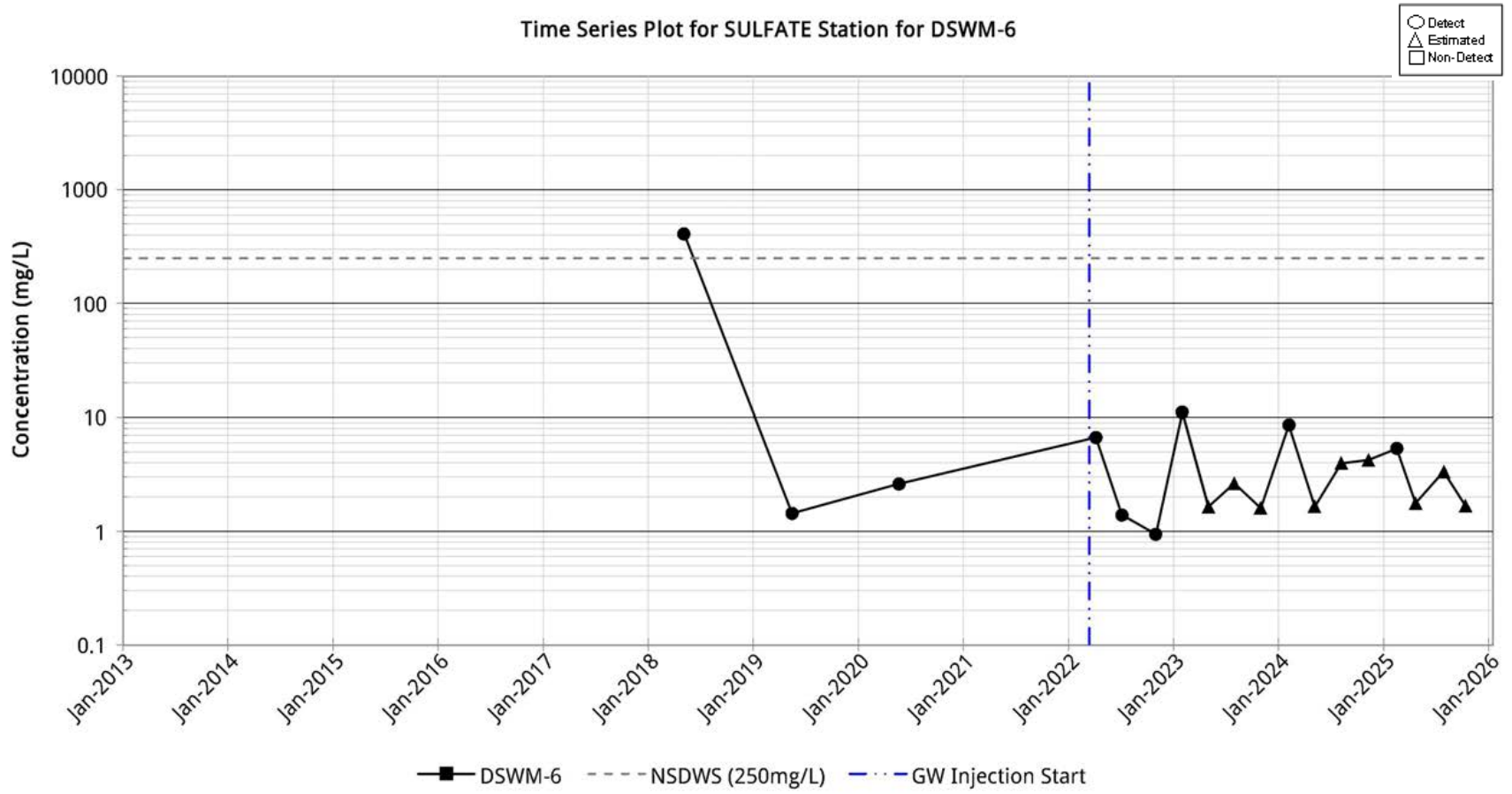

Time Series Plot for SULFATE Station for DCB079
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB079
NSDWS (250mg/L)
GW Injection Start

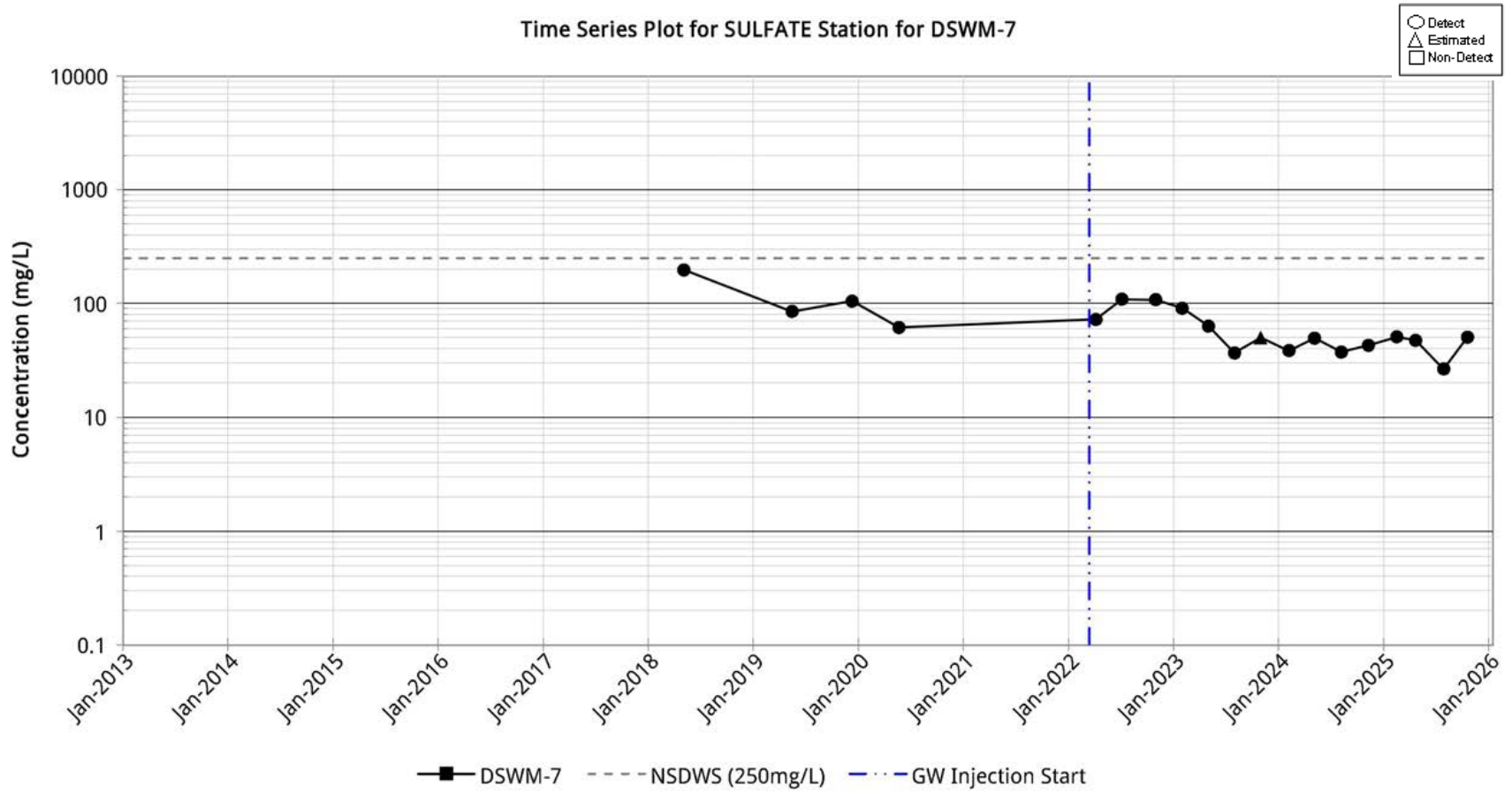

Time Series Plot for SULFATE Station for DCB080
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB080
NSDWS (250mg/L)
GW Injection Start

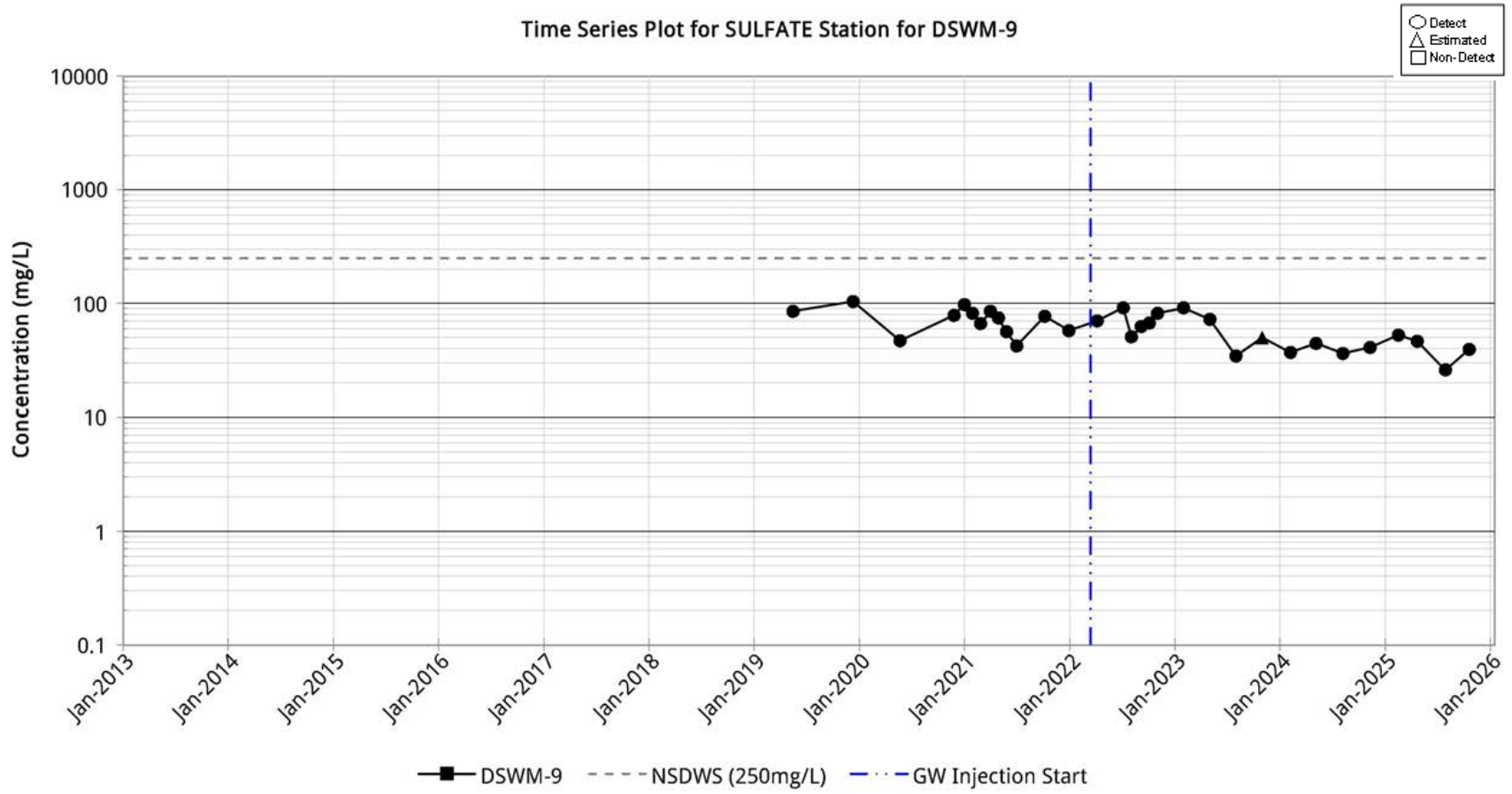

Time Series Plot for SULFATE Station for DCB087
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DCB087C
DCB087D
DCB087A
NSDWS (250mg/L)
GW Injection Start

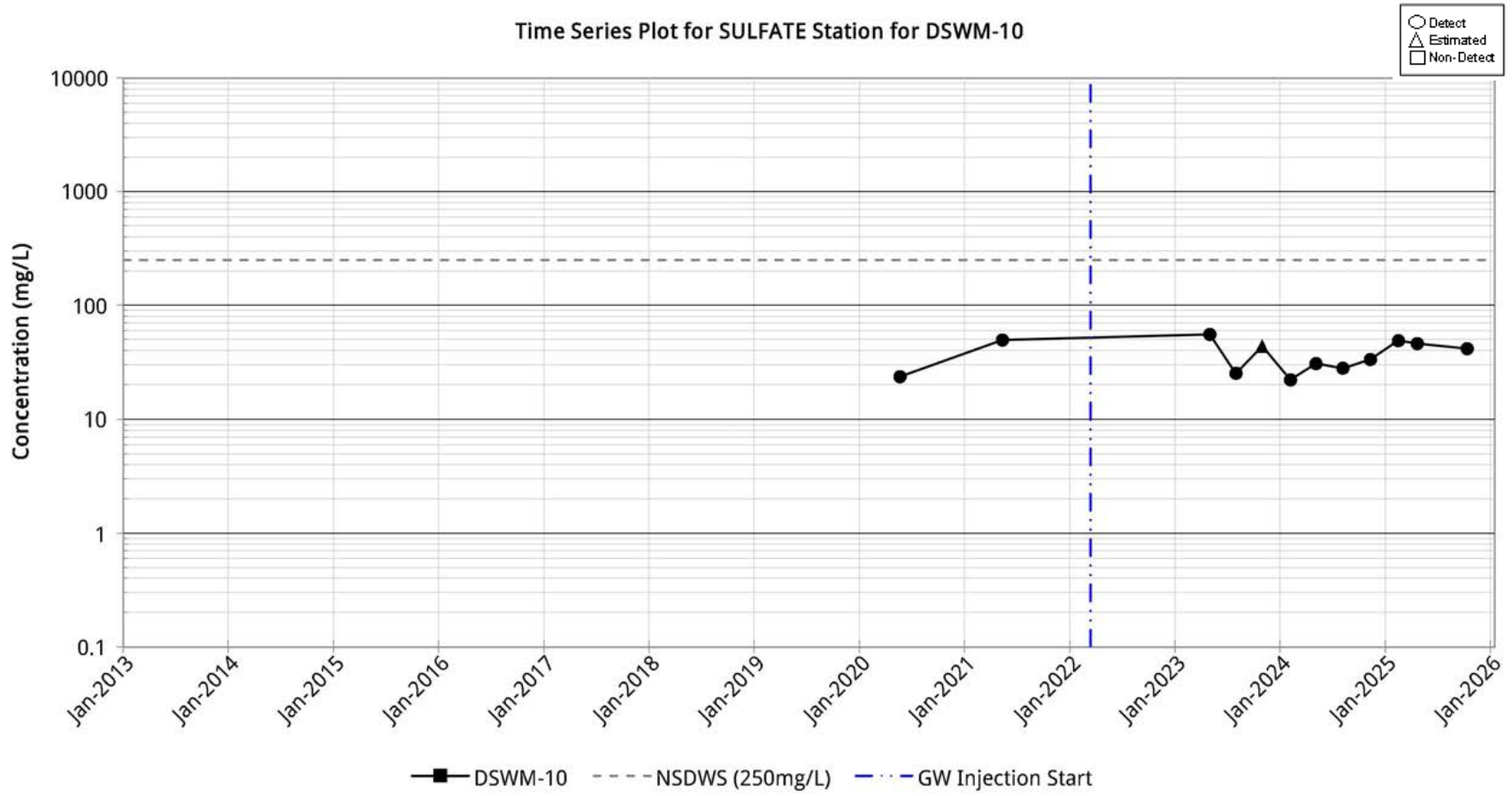

Time Series Plot for SULFATE Station for DSWM-4
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-4
DSWM-4A
DSWM-4B
DSWM-4C
NSDWS (250mg/L)
GW Injection Start


Time Series Plot for SULFATE Station for DSWM-5
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-5
NSDWS (250mg/L)
GW Injection Start


Time Series Plot for SULFATE Station for DSWM-6
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-6
NSDWS (250mg/L)
GW Injection Start


Time Series Plot for SULFATE Station for DSWM-7
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-7
NSDWS (250mg/L)
GW Injection Start


Time Series Plot for SULFATE Station for DSWM-9
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-9
NSDWS (250mg/L)
GW Injection Start


Time Series Plot for SULFATE Station for DSWM-10
Detect
Estimated
Non-Detect
Concentration (mg/L)
10000
1000
100
10
1
0.1
Jan-2013
Jan-2014
Jan-2015
Jan-2016
Jan-2017
Jan-2018
Jan-2019
Jan-2020
Jan-2021
Jan-2022
Jan-2023
Jan-2024
Jan-2025
Jan-2026
DSWM-10
NSDWS (250mg/L)
GW Injection Start

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