February 12, 2016

Project 8615180650

Ms. Kelly Manheimer
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, California 94105

Subject: **Phase 1 Pre-Design Groundwater Investigation**
North Hollywood Operable Unit, Second Interim Remedy
Groundwater Remediation Design

Dear Ms. Manheimer:

Amec Foster Wheeler, Environment & Infrastructure, Inc. (Amec Foster Wheeler) is pleased to submit this Phase 1 Pre-Design Groundwater Investigation findings letter, on behalf of Honeywell International Inc. and Lockheed Martin Corporation, to the U.S. EPA. This letter summarizes findings associated with the October 2015 sampling event.

If you have any questions regarding the contents in this letter, please contact Michael Taraszki at (510) 663-3996.

Sincerely yours,
Amec Foster Wheeler Environment & Infrastructure, Inc.

Michael Taraszki, PG, CHG, PMP
Principal Hydrogeologist

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Cc: Ms. Carolyn Monteith (Lockheed Martin)
Mr. Benny Dehghi (Honeywell)
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Subject: **Phase I Pre-Design Groundwater Investigation – October 2015**
North Hollywood Operable Unit, Second Interim Remedy
Groundwater Remediation Design

Dear Mr. Dehghi and Ms. Monteith:

This letter report presents Amec Foster Wheeler Environment & Infrastructure, Inc.'s (Amec Foster Wheeler) findings from the groundwater monitoring event conducted in September and October 2015 at the North Hollywood Operable Unit (NHOU) as part of the Phase 1 Pre-Design Investigation as described in the "Second Addendum to the Final Work Plan for the Phase 1 Pre-Design Investigation, North Hollywood Operable Unit, Second Interim Remedy, Groundwater Remediation System Design" (herein referred to as the "Work Plan"), dated August 7, 2015.

All activities described in this report were performed in accordance with the Sampling and Analysis Plan (SAP), Phase 1 Pre-Design Investigation, Revision 1 (AMEC, *Sampling and Analysis Plan, Phase I Pre-Design Investigation*, North Hollywood Operable Unit, Second Interim Remedy, Groundwater Remediation System Design, Revision 1, September 10, 2012), with the exception that additional piezometers and wells were included as described in the Work Plan.

DEPTH-TO-WATER MEASUREMENTS

Depth-to-water and total well depth measurements were collected from 71 monitoring wells between October 13 and 16, 2015. Depth-to-water measurements and groundwater elevations are presented in Table 1.

The hydrogeology of the NHOU area is divided into three hydrostratigraphic units, as follows:

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- The A-Zone, which is generally finer grained and has a lower hydraulic conductivity relative to the B-Zone, extends to depths ranging from the water table (currently approximately 270 feet below ground surface [bgs]) to approximately 400 feet bgs.
- The underlying B-Zone, which is generally coarser grained and has a relatively higher hydraulic conductivity, extends approximately 60 to 80 feet below the bottom of the A-Zone.
- Units underlying the B-Zone are generally associated with higher salinity.

Groundwater elevation contours are illustrated on Figures 1a and 1b for the A-Zone and B-Zone, respectively. Eight NHOU extraction wells penetrate the A-Zone; however, NHE-1 and NHE-5 are not active. As a result, contours on figures illustrating A-Zone groundwater elevations were interpreted considering potential influence of pumping from the six extraction wells that were active (NHE-2, NHE-3, NHE-4, NHE-6, NHE-7, and NHE-8). Inspection and interpretation of the contour maps support the following observations:

- A-Zone groundwater elevations measured in October 2015 are approximately 20 feet lower than those measured in March 2013, which in part likely reflects regional drought conditions that have persisted since 2011.
- A-Zone groundwater flow direction in the west and central portion of the study area is toward the west/northwest, substantially different from the south/southeast flow direction observed in this area in 2013. This change correlates with projections of substantially increased pumping rate from the Rinaldi-Toluca production well field (as reported by the Los Angeles Department of Water and Power [LADWP] in early 2015) and is consistent with the simulated head distribution as illustrated in the Final Groundwater Modeling Memo (see Figure 6-1; Amec Foster Wheeler, *Groundwater Modeling Memorandum*, North Hollywood Operable Unit, Second Interim Remedy, Groundwater Remediation System Design, July 2015). This change in groundwater flow direction is particularly apparent in the vicinity of the Hewitt Pit where northward groundwater flow predominates.
- A-Zone groundwater flow in the eastern portion of the study area is toward the southeast, which is consistent with previous observations. Groundwater gradients in the central portion of the study area are relatively flat due to the reversal in groundwater flow directions farther west/northwest.

Depth-to-water measurement collected in A-Zone well NH-VPB-10 within the northeastern portion of the study area was not used for contouring because the value is approximately 40 feet higher than those in the nearest A-Zone wells. The differences in water level elevation are likely a result of inhibited groundwater flow across the Verdugo fault or associated fault splays, which parallel the base of the Verdugo Mountains to the northeast.

Groundwater elevation measurements collected at wells screened in the B-Zone indicate groundwater flow directions and magnitudes of lateral hydraulic gradients were generally consistent with those in the A-Zone, including the significant flow direction reversal toward the west/northwest in the western portion of the study area.

A slight downward vertical gradient exists between the A- and B-Zones throughout most of the study area.

To further assess the significant change in groundwater elevations and flow directions since the previous monitoring event (March 2013), the differences in A-Zone and B-Zone groundwater elevations between these events were also evaluated. As illustrated on Figures 2a and 2b, groundwater elevations in both zones decreased by as much as 30 feet in the western portion of the study area and by approximately 20 feet in the central portion of the study area. This pattern strongly correlates with higher pumping rates that were projected by the LADWP to occur in 2015 at the Rinaldi-Toluca production well field. A-Zone groundwater elevations decreased by approximately 14 feet in the southeastern portion of the study area, compared with approximately 18 feet in the B-Zone in the same area, which is more likely a reflection of ongoing drought conditions. Despite the lower groundwater elevations, horizontal and vertical gradients observed in October 2015 are similar to those observed in 2013, with the exception of the nearly flat horizontal gradient present in the A-Zone in the area of the former Bendix facility.

GROUNDWATER SAMPLING

Between September 29 and October 19, 2015, low-flow sampling methods were used to collect depth-discrete groundwater samples from 57 monitoring wells, piezometers, and extraction wells screened in either the A-Zone or the B-Zone, or across both zones. Sampling was performed in accordance with the SAP (AMEC, 2012) with the exception of split samples collected from NH-MW-06 and NH-MW-11, which were constructed as zone isolation sampling technology (Zist™) wells, and with split samples collected from Hewitt Pit monitoring wells sampled on behalf of Calmat. The analytical suites and associated methods for each sample are listed below.

- Volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 524.2.
- 1,4-dioxane using EPA Method 522.
- Hexavalent chromium using EPA Method 218.6.

Isoconcentration contours for the four primary constituents of concern (COCs) – trichloroethene (TCE), tetrachloroethene (PCE), 1,4-dioxane, and hexavalent chromium – in the A- and B-Zones are illustrated on parts “a” and “b,” respectively, of Figures 3a through 6b. Data from the following sources was also considered in preparing the COC contour maps:

Quarterly Groundwater Monitoring Report, Fourth Quarter 2015, Former Bendix Facility.

Annual Groundwater Monitoring Report, Second Quarter 2015, Burbank Operable Unit.

Most recent data from within the investigation area available via the EPA database.

Laboratory analytical results for selected COCs from the October 2015 sampling event are summarized in Table 2 for the A-Zone and Table 3 for the B-Zone; analytical results for samples

collected at wells screened below the B-Zone are included in Table 4. Comprehensive analytical laboratory results for samples collected in October 2015 are presented in Attachment A.

Analytical laboratory reports were reviewed for accuracy and completeness. Data validation was performed by a qualified third party, pursuant to the National Functional Guidelines.[1] Data validation results are described in Attachment B. Time-concentration plots for wells included in the October 2015 sampling event are presented in Attachment C, and correlograms used to evaluate spatial and temporal trends and variability of groundwater elevations and COC concentrations are presented in Attachment D.

Interpretive COC distributions based on October 2015 results are discussed below, with a focus on concentrations greater than 10 times the maximum contaminant level (MCL) or other relevant regulatory level.

A-Zone TCE

The lateral extent of TCE distribution (Figure 3a) in the central and eastern portions of the study area is generally consistent with previous observations and interpretations. Concentrations in the central area were generally lower in October 2015 (e.g., NH-C18-365 and NH-C19-360) relative to 2013, whereas new data points west of the study area indicated higher concentrations in October 2015 than inferred in 2013.

TCE concentrations that exceed 50 micrograms per liter (µg/L; 10 times the 5 µg/L MCL) are located in three areas: (1) near and south of the closed Hewitt Pit; (2) several wells between NH-C27-290 and NH-C28-290 south of the former Bendix facility; and (3) wells LC1-CW06, NH-C12-280, and 3830S in the southeastern portion of the NHOU, which borders the Burbank Operable Unit (BOU). The areal extent of these concentrations in the central portion of the study area is generally consistent with observations in 2013, but in 2015 these areas are larger south of the former Hewitt Pit and in the southeast portion of the study area than illustrated in 2013 due to data now available from wells installed since the previous sampling event.

Concentration contours near and south of the former Hewitt Pit are based on split samples collected from monitoring wells installed by Calmat in 2014 and 2015 and from samples collected from two zone isolation sampling technology (ZIST™) monitoring wells owned by LADWP that were installed in 2014.

Elevated TCE concentrations beneath and south of the former Hewitt Pit area are associated with elevated PCE concentrations. This chemical signature is distinct from the plume south/southeast of the former Bendix Facility; thus, TCE concentrations in these areas are contoured separately.

[1] Two documents are collectively known as the National Functional Guidelines, as follows: "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," U.S. Environmental Protection Agency, June 2008; and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," U.S. Environmental Protection Agency, January 2010.

Three piezometer couplets were installed in 2014 and 2015 adjacent to NHE-2, NHE-4, and NHE-7 to facilitate aquifer testing. TCE concentrations in samples collected from piezometers adjacent to NHE-2 and NHE-4 were both an order of magnitude lower than those observed at the associated extraction wells (i.e., 150 µg/L at NHE-2 versus 13 µg/L at PZ-NHE-2S and 16 µg/L at NHE-4 versus 1.3 µg/L at PZ-NHE-4S). Concentrations were another order of magnitude lower in the deep piezometer at each location. The lowest TCE concentration from the three extraction wells was measured at NHE-7 (6.1 µg/L) and concentrations at the associated shallow and deep piezometers were lower by a factor of approximately three.

Without depth-discrete analytical data from within extraction wells NHE-2 and NHE-4, or spinner log data to assess flow contribution throughout each screen interval, it is not known whether the concentration differences with nearby piezometers suggest that the piezometers are located outside of the plume being captured by each extraction well or if higher TCE concentrations are present at a depth between the shallow and deep piezometer screen intervals.

A-Zone PCE

The interpreted lateral extent of PCE distribution in the A-Zone in October 2015 is generally consistent with that based on June/July 2013 data in the central and southeast portions of the study area, but is substantially larger in the western area (Figure 4a). Generally, PCE is less broadly distributed than TCE and the larger area of elevated concentrations indicated in the western area stems from monitoring wells that have been installed and sampled since the 2013 event.

With the exception of well NH-C01-325 downgradient of the Strathern Inert Landfill (last sampled in 2012), detections of PCE concentrations exceeding 50 µg/L (10 times the 5 µg/L MCL) were observed in the western portion of the study area at or south of the Hewitt Pit area (including several wells installed since the 2013 event) and northeast of the Lockheed Martin facility in the BOU (as was observed in 2013). Elevated PCE concentrations in the Hewitt Pit area had previously been indicated by the presence of 110 µg/L of PCE at well NH-C11-295.

In September 2013, well NH-C28-290 was installed adjacent to the southeast corner of the Pacific Steel facility, providing additional coverage in the area between the former Bendix facility and the downgradient NHE wells. PCE concentrations decreased from 29 µg/L in 2013 to 11 µg/L in 2015, which is generally consistent with the results from samples collected at surrounding monitoring wells south of the former Bendix facility.

The PCE analytical results of samples collected from wells NH-C26-310 and NH-C27-290 southeast of the former Hewitt Pit in October 2013 were 0.74 µg/L and 1.2 µg/L, respectively. Both results are consistent with the results from samples collected at monitoring wells to the north and south and support the existence of a distinct but unknown source of elevated PCE concentrations farther west.

PCE was detected at NHE-2, NHE-4, and NHE-7 (13, 5.2, and 5.7 µg/L, respectively) and, as was observed with TCE, at adjacent shallow and deep piezometers but at much lower concentrations (up to 3.4, 0.25, and1.9 µg/L, respectively). PCE was not detected in either deep piezometer at NHE-2 and NHE-4. Concentration discrepancies between the piezometers and

extraction wells are similar to those associated with TCE, although the magnitude is less because PCE concentrations are much lower than those of TCE at these locations.

A-Zone 1,4-Dioxane

The overall extent of 1,4-dioxane distribution in the A-Zone (Figure 5a) is similar to the distribution observed in 2013, with the exceptions of much higher concentrations at and south of the Hewitt Pit area than recognized in 2013 (due to recently installed wells). Concentrations greater than the 1 µg/L notification level (NL) are observed throughout the study area, as in 2013. The distribution of 1,4-dioxane above the NL in the eastern portion of the NHOU is consistent with the limited 1,4-dioxane data presented in the adjacent portion of the BOU.[2]

Analytical data from the October 2015 sampling event from wells near the former Bendix facility indicate that the number of wells in which concentrations exceeded 10 µg/L (10 times the 1 µg/L NL) decreased from 2013; the exception is GW-16-317 (77 µg/L).

The analytical results from a sample collected at well NH-C28-290 southeast of the Pacific Steel facility in October 2015 indicated a 1,4-dioxane concentration of 11 µg/L, which is lower than the 47 µg/L detected in 2013.

The analytical results from samples collected from monitoring wells NH-C26-310 and NH-C27-290 southeast of the former Hewitt Pit in October 2015 indicated 1,4-dioxane concentrations of 0.21 µg/L and 5.7 µg/L, respectively. The slightly higher concentration at NH-C27-290 is isolated from higher concentrations east and west of this area.

1,4-dioxane was detected at NHE-2, NHE-4, and NHE-7 (11, 1.8, and 1.4 µg/L, respectively) and at adjacent piezometers (up to 1.5, 0.25, and 4.2 µg/L, respectively). Unlike TCE and PCE, concentrations were slightly higher in the shallow piezometer at NHE-2 and concentrations at the shallow and deep piezometers were higher than at NHE-7. The differences in concentration ratios between TCE/PCE and 1,4-dioxane at NHE-7, compared to those at NHE-2 and NHE-4, may be indicative of different sources and/or migration pathways associated with these COCs in the eastern versus central portions of the study area.

A-Zone Hexavalent Chromium

Hexavalent chromium concentrations that exceeded the 10 µg/L MCL are primarily associated with wells in the area south of the former Bendix facility (Figure 6a), which is generally consistent with the previously observed distribution in 2013. The distribution beneath and south of the former Bendix facility has changed; concentrations have declined at NHE-3 and have increased at NH-C10-280 (farther downgradient).

NH-C18 and NH-C21 cluster wells are located cross-gradient from (south of) the former Bendix facility and are hydraulically isolated from that facility by extraction wells NHE-2 and NHE-3.

[2] "Groundwater Monitoring and Emerging Compound Report, Second Quarter 2013, Burbank Operable Unit, Burbank, California," Arcadis, August 8, 2013.

Concentrations at these wells have declined to below 10 µg/L since 2013 but increased at NH-C26-310, which is downgradient under current conditions.

Hexavalent chromium was detected at NHE-2, NHE-4, and NHE-7 (130, 6.8, and 1.9 µg/L, respectively) and at adjacent piezometers (up to 5.3, 4.9, and 3.1 µg/L, respectively). Concentrations at the piezometers are generally consistent with background concentrations and only slightly correlate with higher concentrations observed at NHE-2 and NHE-4. As with TCE, the concentration differences between NHE-2 and adjacent piezometers may be indicative of the piezometer location with respect to the plume being captured or of the depth of piezometer screen intervals with respect to higher concentrations captured by NHE-2.

B-Zone TCE

The interpreted lateral extent of TCE distribution in the B-Zone in October 2015 was generally consistent with that observed in June/July 2013, and its distribution comprises a curving elongated plume that extends from north of Sherman Way to the west and south of the former Bendix facility (Figure 3b). Elevated concentrations in the A-Zone near and south of Hewitt Pit are not apparent in the B-Zone in this area except for the 15 µg/L observed at NH-MW-011, due to a lack of B-Zone monitoring wells in this area. Similarly, A-Zone concentrations are lower than those observed in the B-Zone farther east (e.g., NH-C18, NH-C19 [as of July 2013], NH-C21 [slightly], NH-C20, and NH-C26).

TCE concentrations in the B-Zone that exceeded 50 µg/L (10 times the 5 µg/L MCL) in October 2015 were limited to NH-C21-400 (82 µg/L), which is similar to that observed in the A-Zone sample collected from this well (75 µg/L). Depth-discrete samples collected from this well were not hydraulically isolated from one another and thus the deeper depth-discrete sample may be more representative of the A-Zone than the B-Zone.

The analytical results from samples collected from monitoring well NH-C26-385 southeast of the former Hewitt Pit in October 2013 yielded a TCE concentration of 8.6 µg/L, which is lower than observed in June/July 2013 and with wells to the east and west during this sampling event.

B-Zone PCE

PCE is generally not present in the B-Zone at concentrations exceeding its MCL (5 µg/L) except in the area downgradient of the Lockheed Martin facility (Figure 4b).

PCE concentrations that exceed 50 µg/L (10 times the 5 µg/L MCL) were limited to wells LB6-CW05, LB6-CW08, and LB6-CW14, which are all associated with the BOU.

B-Zone 1,4-Dioxane

The lateral extent of 1,4-dioxane distribution in the B-Zone in October 2015 is similar to that observed in June/July 2013 (Figure 5b).

The maximum concentration of 1,4-dioxane detected in the B-Zone during the October 2015 sampling event was 3.0 µg/L at wells NH-C10-360 and NH-C26-385, which are not collocated.

Concentrations exceeding the 1 µg/L NL were broadly observed throughout the NHOU study area, which is consistent with previous observations.

No B-Zone monitoring wells are located within the area of highest concentrations in the A-Zone (greater than 100 µg/L), beneath and south of the former Hewitt Pit area.

B-Zone Hexavalent Chromium

The lateral extent of hexavalent chromium distribution in October 2015 was similar to that observed in June/July 2013 (Figure 6b).

Exceedances of the MCL of 10 µg/L were observed only at GW-11-407 (15 µg/L), GW-16-347 (12 µg/L), and NH-C21-340 (13 µg/L). The concentration of hexavalent chromium in NH-C21-340 was higher in the B-Zone sample than in the A-Zone sample, the same inverse relationship as for TCE.

A geostatistical analysis of COC concentration data, both with respect to each COC and to groundwater elevation changes, was performed using cross correlograms to evaluate time stability of each variable. As discussed in more detail in Attachment D, results indicate strong correlation for most data, which support that COC distributions have not changed substantially since 2013, despite the significant change in groundwater elevations and flow directions.

SUMMARY OF DEVIATIONS FROM THE WORK PLAN

Investigation activities included in the Work Plan that could not be completed as part of the September and October 2015 event are summarized below.

Water levels could not be measured (or were measured separately) at the following wells for reasons indicated parenthetically:

4899 (dry)

4909FR (dry)

4918B (not granted access)

4928A (not granted access)

LA1-CW05 (redeveloped since 2013, new property owner would not grant access)

NH-C05-320 (obstructed)

NH-C08-295 (well monument bolts jammed, unable to open)

NH-C20-380 (measured October 27, 2015)

NH-VPB-02 (obstructed)

NH-VPB-09 (dry)

NHE-2 (not accessible; active pumping well)

NHE-3 (not accessible; active pumping well)

NHE-4 (not accessible; active pumping well)

NHE-7 (not accessible; active pumping well)

NHE-8 (not accessible; active pumping well)

Groundwater samples could not be collected or could not be collected as planned at the following wells for reasons indicated parenthetically:

4899 (dry)

4909FR (dry)

MW-3 (dry)

MW-4 (dry)

NH-MW-06-280 (dry; split sample collected from LADWP from NH-MW-06-300 instead)

CONCLUSIONS AND RECOMMENDATIONS

Groundwater flow directions indicated by elevation measurements taken in October 2015 are substantially different from observations in 2013, but generally consistent with predictive simulations (see Figure 6-1 in the *Groundwater Modeling Memorandum*; Amec Foster Wheeler, July 2015). Specifically, groundwater flow now occurs toward the west/northwest in the western portion of the study area and south/southeast in the eastern portion of the study area; the groundwater gradient in the central portion of the study area is relatively flat and flow directions are relatively indeterminate.

Groundwater elevations have decreased by approximately 30 feet and 15 to 20 feet in the northwest and southeast portions of the study area, respectively, in both the A- and B-Zones. This pattern is consistent with the substantially higher pumping rates that were projected by the LADWP to occur in 2015, particularly at the Rinaldi-Toluca well field, which were simulated in the *Groundwater Modeling Memorandum* (Amec Foster Wheeler, 2015), as illustrated on Figure 6-1 therein. Otherwise, the overall decline in groundwater elevations throughout the subbasin is consistent with drought conditions that have predominated since 2011.

Despite the significant change in groundwater flow directions, COC distributions were generally consistent with those observed in 2013, except west of the Hewitt Pit area, where concentrations are higher than in 2013. This observation is supported by cross correlograms performed as part of a geostatistical analysis of changes in groundwater elevations and COC concentrations between 2013 and 2015. Highest concentrations are generally found in four areas, including, from west to east, at and south of the Hewitt Pit area, south of the former Bendix facility, south of the former Lockheed Martin facilities (near the western extent of the Burbank airport), and in the BOU area. The NHOU Second Interim Remedy is not intended to hydraulically capture and treat groundwater in the westernmost area and groundwater in the BOU area is already being addressed.

The objective of hydraulic capturing and treating groundwater in the central and eastern portions of the NHOU study area is to meet Remedial Action Objectives specified in the Administrative

Settlement Agreement and Order on Consent for Remedial Design (AOC; USEPA, *Administrative Settlement Agreement and Order on Consent for Remedial Design*, in the matter of North Hollywood Operable Unit, San Fernando Valley (Area 1) Superfund Site, Los Angeles, California, February 14, 2011). The *Groundwater Modeling Memorandum* included evaluations of multiple pumping/injection configurations to achieve this objective under various pumping scenarios. The extent of elevated COC concentrations observed in September and October 2015 is located well within probabilistic capture zones presented in that document. Existing empirical potentiometric and COC distribution data and the predictive numerical groundwater flow model provide sufficient information and tools to successfully develop the NHOU Second Interim Remedy design without additional groundwater characterization activities (i.e., "Phase 2").

As described in the Remedial Design Work Plan (AMEC, *Final Remedial Design Work Plan*, North Hollywood Operable Unit, Second Interim Remedy, Groundwater Remediation System Design, October 5, 2011), the intent of the initial groundwater monitoring plan (per the AOC) was met in 2010 and 2011 and a plan to establish routine monitoring will be implemented following approval of the preliminary remedial design. Routine data will be used to evaluate the location and movement of COCs in groundwater and the performance of the second interim remedy, once constructed.

Please contact either of the undersigned at (510) 663-3996 if you have any questions regarding this matter.

Sincerely yours,
Amec Foster Wheeler, Environment & Infrastructure, Inc.

Michael Taraszki, PG, CHG, PMP
Project Manager

Vinnie Robino, PG
Project Geologist

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Cc: Mr. Robert Hartwell, PE
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Mr. Tedd Yargeau (DTSC)
Mr. Chi Diep and Susan Brownstein (CDPH)
Mr. Larry Moore (RWQCB-LA)
Mr. Richard Slade (ULARA Watermaster)
Ms. Nova Clite (OTIE)
Mr. Kevin Murdock (CH2M)

Enclosures:

Table 1	Groundwater Elevations – October 2015
Table 2	Summary of Recent Analytical Results – A-Zone
Table 3	Summary of Recent Analytical Results – B-Zone
Table 4	Summary of Recent Analytical Results – Below B-Zone
Figure 1a	October 2015 Potentiometric Map – A-Zone Groundwater
Figure 1b	October 2015 Potentiometric Map – B-Zone Groundwater
Figure 2a	March 2013-October 2013 Delta Potentiometric Map – A-Zone Groundwater
Figure 2b	March 2013-October 2015 Delta Potentiometric Map – B-Zone Groundwater
Figure 3a	TCE Distribution In A-Zone Groundwater –October 2015
Figure 3b	TCE Distribution In B-Zone Groundwater – October 2015
Figure 4a	PCE Distribution In A-Zone Groundwater – October 2015
Figure 4b	PCE Distribution In B-Zone Groundwater – October 2015
Figure 5a	1,4-Dioxane Distribution In A-Zone Groundwater – October 2015
Figure 5b	1,4-Dioxane Distribution In B-Zone Groundwater – October 2015
Figure 6a	Chromium VI Distribution In A-Zone Groundwater – October 2015
Figure 6b	Chromium VI Distribution In B-Zone Groundwater – October 2015

Attachment A	Results of Detected Analytes
Attachment B	Data Validation Narrative
Attachment C	Time-Concentration Plots
Attachment D	Groundwater Elevation and COC Correlograms

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TABLES

TABLE 1

GROUNDWATER ELEVATION - OCTOBER 2015
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Date Measured	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Total Depth	Comments
3831Q	10/13/2015	660.31	188.09	472.22	254.75	
4918A	10/14/2015	807.48	327.54	479.94	NM	Pump in well
4919D	10/14/2015	769.96	291.42	478.54	NM	Transducer in well
GW-18B	10/14/2015	738.28	260.43	477.85	448.32	
GW-19B	10/14/2015	728.96	251.14	477.82	449.02	
HP-MW-01	10/13/2015	747.58	274.27	473.31	278.99	
HP-MW-02	10/13/2015	754.34	279.98	474.36	288.80	
HP-MW-05	10/13/2015	753.16	278.31	474.85	327.45	
HP-MW-06	10/13/2015	755.29	279.58	475.71	337.50	
HP-MW-07	10/13/2015	758.59	284.49	474.10	324.00	
HP-MW-08D	10/16/2015	760.26	288.03	472.23	401.10	
HP-MW-08S	10/15/2015	759.59	287.20	472.39	323.30	
HP-MW-09	10/14/2015	750.88	276.93	473.95	327.00	
LA1-CW01	10/13/2015	681.98	260.70	421.28	NM	Pump in well, water in well box
LA1-CW02	10/13/2015	682.12	260.41	421.71	NM	Pump in well
LA1-CW03R	10/13/2015	682.55	260.61	421.94	277.21	Pump in well
NH-C01-325	10/14/2015	783.66	303.67	479.99	NM	Pump in well
NH-C01-450	10/14/2015	783.63	303.48	480.15	NM	Pump in well
NH-C02-220	10/13/2015	660.32	184.63	475.69	NM	Pump in well
NH-C02-325	10/13/2015	659.42	185.27	474.15	321.01	
NH-C03-380	10/13/2015	711.34	232.59	478.75	379.16	
NH-C05-460	10/13/2015	774.85	299.91	474.94	NM	Pump in well
NH-C09-310	10/14/2015	736.83	260.79	476.04	309.63	
NH-C10-280	10/15/2015	710.04	231.50	478.54	279.80	
NH-C10-360	10/15/2015	710.15	231.93	478.22	359.10	
NH-C11-295	10/15/2015	730.87	256.72	474.15	294.01	
NH-C12-280	10/15/2015	705.35	227.90	477.45	279.80	
NH-C12-360	10/15/2015	705.31	228.30	477.01	355.85	
NH-C13-385	10/13/2015	760.47	286.72	473.75	384.21	
NH-C14-250	10/14/2015	694.20	215.16	479.04	249.20	

TABLE 1

GROUNDWATER ELEVATION - OCTOBER 2015
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Date Measured	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Total Depth	Comments
NH-C15-240	10/15/2015	679.04	200.24	478.80	239.23	
NH-C15-330	10/15/2015	679.11	201.39	477.72	329.17	
NH-C16-320	10/13/2015	777.29	298.30	478.99	319.18	
NH-C16-390	10/13/2015	777.33	298.68	478.65	388.00	
NH-C17-255	10/13/2015	675.61	199.90	475.71	254.98	
NH-C17-339	10/13/2015	675.77	200.71	475.06	338.32	
NH-C18-270	10/14/2015	717.87	237.39	480.48	268.92	
NH-C18-365	10/14/2015	717.96	239.35	478.61	363.61	
NH-C19-290	10/14/2015	732.23	253.19	479.04	288.88	
NH-C19-360	10/14/2015	732.08	254.22	477.86	358.76	
NH-C21-260	10/14/2015	704.85	224.41	480.44	259.90	
NH-C21-340	10/14/2015	705.06	226.10	478.96	339.26	
NH-C22-360	10/13/2015	802.34	326.61	475.73	358.70	
NH-C22-460	10/13/2015	802.62	327.10	475.52	459.91	
NH-C23-310	10/15/2015	745.50	267.24	478.26	309.02	
NH-C23-400	10/15/2015	745.49	268.03	477.46	398.79	
NH-C24-305	10/13/2015	731.44	252.31	479.13	304.68	
NH-C24-410	10/13/2015	731.48	252.64	478.84	409.14	
NH-C25-290	10/13/2015	725.70	247.64	478.06	289.57	
NH-C26-310	10/13/2015	725.55	246.70	478.85	307.40	
NH-C26-385	10/13/2015	725.56	247.72	477.84	383.64	
NH-C27-290	10/13/2015	734.49	255.74	478.75	289.11	
NH-C28-290	10/13/2015	715.14	236.53	478.61	287.04	
NH-MW-06	12/16/2015	733.31	255.16	478.61	NM	ZIST well (300' port)
NH-MW-06	10/13/2015	733.31	255.13	478.18	NM	ZIST well (580' port)
NH-MW-06	10/13/2015	733.31	254.92	478.39	NM	ZIST well (810' port)
NH-MW-11	10/14/2015	721.59	243.34	478.25	NM	ZIST well (300' port)
NH-MW-11	10/14/2015	721.59	243.33	478.26	NM	ZIST well (450' port)
NH-MW-11	10/14/2015	721.59	243.12	478.47	NM	ZIST well (710' port)

TABLE 1

GROUNDWATER ELEVATION - OCTOBER 2015
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Date Measured	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Total Depth	Comments
NH-VPB-03	10/13/2015	677.84	195.16	482.68	NM	Pump in well
NH-VPB-05	10/13/2015	657.94	184.68	473.26	NM	Pump in well
NH-VPB-06	10/15/2015	749.41	273.12	476.29	NM	Pump in well
NH-VPB-07	10/14/2015	757.99	276.86	481.13	NM	Pump in well
NH-VPB-08	10/15/2015	670.49	187.08	483.41	NM	Pump in well
NH-VPB-10	10/14/2015	765.92	244.70	521.22	NM	Pump in well
NH-VPB-11	10/14/2015	792.42	176.31	616.11	NM	Pump in well
PZ-NHE-2D	10/15/2015	725.89	247.89	478.00	320.72	
PZ-NHE-2S	10/15/2015	725.95	248.17	477.78	264.33	
PZ-NHE-4D	10/15/2015	712.03	233.87	478.16	304.06	
PZ-NHE-4S	10/13/2015	711.99	233.80	478.19	254.51	
PZ-NHE-7D	10/14/2015	692.27	216.12	476.15	292.90	
PZ-NHE-7S	10/14/2015	692.14	216.32	475.82	240.68	

Abbreviations
-- = not available
NM = not measured

TABLE 2

SUMMARY OF RECENT ANALYTICAL RESULTS - A-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Sample Date	Value Qual	Value Qual	Value Qual	Value Qual
3831Q	3831Q_233	8/1/2013	**3.1**	**4.7**	**65. J**	**3.3**
4909C	4909C_293	1/7/2013	ND(0.27) U	**14.**	**50.**	ND(0.20) U
4909C	4909C_293	7/12/2013	**0.35**	**1.7**	**20.**	ND(0.20) U
4909FR	4909FR_263	8/16/2013	**2.5**	**46.**	**64. J**	**1.0**
4918A	4918A_297.5	12/20/2012	**16.**	ND(0.50) U	**1.9**	ND(0.20) UJ
4919D	4919D_295	12/6/2012	**0.67**	**0.55**	**15.**	ND(0.20) U
4919D	4919D_295	6/21/2013	**1.2**	**1.1**	**4.0**	**0.14 J/J**
HP-MW-1	MW-1_277.2	**10/13/15**	**0.43**	**140**	**180**	**4.1**
HP-MW-2	MW-2_277.2	**10/15/15**	**250**	**27.**	**53.**	ND(0.20)
HP-MW-5	MW-5_324	**10/13/15**	**280**	**52.**	**65.**	**1.1**
HP-MW-6	MW-6_330	**10/13/15**	**2.3**	**26.**	**130**	**1.8**
HP-MW-7	MW-7_320	**10/13/15**	**2.0**	**42.**	**23.**	**1.4**
HP-MW-8S	MW-8S_320.7	**10/15/15**	**23.**	**48.**	**26.**	**3.6**
HP-MW-9	MW-9_324	**10/14/15**	**1.1**	**14.**	**22.**	**6.4**
NH-C07-300	NH-C07-300_246	6/28/2013	**2.7**	ND(0.50) U	**0.72**	**21.**
NH-C07-300	NH-C07-300_246-dup-2	6/28/2013	**2.7**	ND(0.50) U	**0.68**	**20.**
NH-C09-310	NH-C09-310_253	6/28/2013	**110. /DIL**	**25.**	**23.**	**1.5**
NH-C10-280	NH-C10-280_223	6/25/2013	**1.1**	**8.3**	**18.**	**20. J**
NH-C10-280	NH-C10-280-234	**09/29/15**	**6.7 J**	**19.**	**45.**	**51. J+**
NH-C10-360	NH-C10-360_313	12/14/2012	**1.6**	**3.3**	**3.2**	**1.4**
NH-C10-360	NH-C10-360_313	6/25/2013	**1.7**	**1.0**	**1.7**	**1.1**
NH-C11-295	NH-C11-295_238	7/9/2013	**2.9**	**110. /DIL**	**120. /DIL**	**1.7**
NH-C12-280	NH-C12-280_231	**10/01/15**	**0.80**	**7.6**	**270**	**9.0**
NH-C12-360	NH-C12-360_313	12/26/2012	**1.2**	**1.0**	**0.50 J/J**	**0.58**
NH-C12-360	NH-C12-360_313	6/24/2013	**1.0**	**0.63**	**0.28 J/J**	**0.45**
NH-C12-360	NH-C12-360_313	**09/30/15**	**1.1**	**0.71**	**0.24 /J**	**0.35**

TABLE 2

SUMMARY OF RECENT ANALYTICAL RESULTS - A-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Sample Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C13-385	NH-C13-385_338	12/12/2012	ND(0.14) U	**0.25 J/J**	**7.7**	**1.4**
NH-C13-385	NH-C13-385_338	7/11/2013	ND(0.33) U	**1.1**	**9.6**	**1.4**
NH-C14-250	NH-C14-250_202	6/28/2013	ND(0.28) U	**27.**	**8.1**	**2.7**
NH-C14-250	NH-C14-250_203	12/26/2012	ND(0.44) U	**16.**	**6.1**	**2.7**
NH-C15-240	NH-C15-240_203	**10/19/15**	**0.090**	ND(0.50)	ND(0.50)	ND(1.5) U
NH-C15-330	NH-C15-330_273	7/16/2013	**0.57**	**4.0**	**33.**	**3.4**
NH-C16-390	NH-C16-390_343	12/4/2012	**3.4**	**1.5**	**19.**	**0.53**
NH-C16-390	NH-C16-390_343	7/8/2013	**4.3**	**3.0**	**22.**	**0.49**
NH-C17-255	NH-C17-255_188	7/2/2013	ND(0.37) U	**0.17 J/J**	**2.3**	**1.7**
NH-C17-255	NH-C17-255_188-dup-3	7/2/2013	ND(0.37) U	**0.17 J/J**	**2.2**	**1.7**
NH-C17-255	NH-C17-255_203	**10/02/15**	**2.8**	**2.1**	**7.9**	**3.9**
NH-C17-339	NH-C17-339_281	1/2/2013	**1.2**	**1.7**	**0.91**	**0.68**
NH-C17-339	NH-C17-339_281	7/2/2013	**0.99**	**1.0**	**8.7**	**1.9**
NH-C17-339	NH-C17-339_281	**10/02/15**	**1.1**	**1.4**	**13.**	**1.6 J-**
NH-C18-270	NH-C18-270_223	12/11/2012	ND(0.24) U	ND(0.50) U	**0.59**	**2.1**
NH-C18-270	NH-C18-270_223	7/3/2013	ND(0.20) U	**0.24 J/J**	**0.63**	**2.6**
NH-C18-270	NH-C18-270_223-dup-4	7/3/2013	ND(0.19) U	**0.19 J/J**	**0.57**	**2.6**
NH-C18-270	NH-C18-270_240	**10/16/15**	**0.74**	ND(0.50)	**0.62**	**2.9**
NH-C18-270	NH-C18-270_240-Dup5	**10/16/15**	**0.65**	ND(0.50)	**0.50 /J**	**2.9**
NH-C18-365	NH-C18-365_308	12/7/2012	**1.6**	**2.5**	**70.**	**8.1**
NH-C18-365	NH-C18-365_308	7/16/2013	**0.72**	**0.50**	**64.**	**5.3**
NH-C18-365	NH-C18-365_308	**10/12/15**	**0.65**	ND(0.50)	**10.**	**3.8 J-**
NH-C19-290	NH-C19-290_233	12/21/2012	ND(0.76) U	**2.0**	**60.**	**2.4**
NH-C19-290	NH-C19-290_233	1/11/2013	NT	**2.1**	**78.**	NT
NH-C19-290	NH-C19-290_233_DUP-5	1/11/2013	NT	**2.1**	**79.**	NT
NH-C19-290	NH-C19-290_233	6/27/2013	**0.35**	**1.3**	**20.**	**2.3**

TABLE 2

SUMMARY OF RECENT ANALYTICAL RESULTS - A-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Sample Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C19-290	NH-C19-290_233	7/17/2013	NT	**0.23 J/J**	**8.7**	NT
NH-C19-290	NH-C19-290_243	1/11/2013	NT	**1.6**	**76.**	NT
NH-C19-290	NH-C19-290_243	7/17/2013	NT	**0.25 J/J**	**9.3**	NT
NH-C19-290	NH-C19-290_243-dup-7	7/17/2013	NT	**0.26 J/J**	**8.8**	NT
NH-C19-290	NH-C19-290_253	1/11/2013	NT	**1.9**	**77. J**	NT
NH-C19-290	NH-C19-290_253	7/17/2013	NT	**0.55**	**15.**	NT
NH-C19-290	NH-C19-290_263	1/11/2013	NT	**1.7**	**77.**	NT
NH-C19-290	NH-C19-290_263	7/17/2013	NT	**2.1**	**25.**	NT
NH-C19-290	NH-C19-290_263	**10/09/15**	**0.32**	ND(0.50)	**5.0**	**4.0**
NH-C19-290	NH-C19-290_263-DUP-4	**10/09/15**	**0.36**	ND(0.50)	**5.0**	**4.1**
NH-C19-290	NH-C19-290_273	1/11/2013	NT	**2.1**	**79.**	NT
NH-C19-290	NH-C19-290_273	7/17/2013	NT	**1.9**	**23.**	NT
NH-C19-290	NH-C19-290_283	1/11/2013	NT	**2.0**	**82.**	NT
NH-C19-290	NH-C19-290_283	7/17/2013	NT	**2.2**	**26.**	NT
NH-C19-360	NH-C19-360_303	12/21/2012	**1.8**	**1.7**	**42.**	**1.5**
NH-C19-360	NH-C19-360_303	1/11/2013	NT	**2.0**	**69. J**	NT
NH-C19-360	NH-C19-360_303	6/27/2013	**1.2**	**1.3**	**40.**	**1.6**
NH-C19-360	NH-C19-360_303	**10/09/15**	**0.63**	ND(0.50)	**7.2**	**3.6**
NH-C19-360	NH-C19-360_303	7/17/2013	NT	**1.8**	**46.**	NT
NH-C19-360	NH-C19-360_313	1/11/2013	NT	**2.5**	**55.**	NT
NH-C19-360	NH-C19-360_313	7/17/2013	NT	**2.6**	**67.**	NT
NH-C19-360	NH-C19-360_323	1/11/2013	NT	**3.3**	**45.**	NT
NH-C19-360	NH-C19-360_323	7/17/2013	NT	**3.2**	**49.**	NT
NH-C19-360	NH-C19-360_333	1/11/2013	NT	**2.6**	**45.**	NT
NH-C19-360	NH-C19-360_333	7/17/2013	NT	**3.0**	**48.**	NT
NH-C19-360	NH-C19-360_333	**10/09/15**	**2.7**	**0.51**	**17.**	**2.0**

TABLE 2

SUMMARY OF RECENT ANALYTICAL RESULTS - A-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Sample Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C20-380	NH-C20-380_322	12/19/2012	**1.6**	**1.3**	**46.**	**0.48**
NH-C20-380	NH-C20-380_322	7/10/2013	**1.4**	**0.62**	**21.**	**0.78**
NH-C20-380	NH-C20-380_322	**10/27/15**	**1.7**	ND(0.50)	**2.8**	**1.0**
NH-C21-260	NH-C21-260_213	1/3/2013	**0.79**	**0.76**	**23.**	**15.**
NH-C21-260	NH-C21-260_213_DUP-3	1/3/2013	**0.86**	**0.70**	**24.**	**15.**
NH-C21-260	NH-C21-260_213	7/10/2013	ND(0.16) U	**2.4**	**40.**	**18.**
NH-C21-260	NH-C21-260_229	**10/08/15**	ND(0.07)	**2.8**	**79.**	**3.3 J-**
NH-C21-260	NH-C21-260_229-DUP-3	**10/08/15**	ND(0.07)	**3.1**	**77.**	**3.8 J-**
NH-C21-340	NH-C21-340_283	1/4/2013	**2.1**	**0.51**	**15.**	**19.**
NH-C21-340	NH-C21-340_283	7/9/2013	**1.3**	**1.2**	**95.**	**8.6**
NH-C21-340	NH-C21-340-283	**10/08/15**	**2.0**	**1.1**	**75.**	**6.1 J-**
NH-C23-310	NH-C23-310_253	12/28/2012	**2.7**	**1.7**	**1.9**	**0.96**
NH-C23-310	NH-C23-310_253	1/11/2013	NT	**1.2**	**1.7**	NT
NH-C23-310	NH-C23-310_253	7/1/2013	ND(0.36) U	**0.69**	**1.1**	**1.0**
NH-C23-310	NH-C23-310_253	7/17/2013	NT	**0.25 J/J**	**1.3**	NT
NH-C23-310	NH-C23-310_263	1/11/2013	NT	**2.1**	**2.4**	NT
NH-C23-310	NH-C23-310_263	7/17/2013	NT	**0.25 J/J**	**1.8**	NT
NH-C23-310	NH-C23-310_273	1/11/2013	NT	**2.4**	**2.2**	NT
NH-C23-310	NH-C23-310_273	7/17/2013	NT	**0.36 J/J**	**2.1**	NT
NH-C23-310	NH-C23-310_283	1/11/2013	NT	**2.5**	**2.2**	NT
NH-C23-310	NH-C23-310_283	7/17/2013	NT	**0.37 J/J**	**2.0**	NT
NH-C23-310	NH-C23-310_293	1/11/2013	NT	**2.4**	**2.5**	NT
NH-C23-310	NH-C23-310_293	7/17/2013	NT	**0.75**	**3.2**	NT
NH-C23-310	NH-C23-310_303	1/11/2013	NT	**2.3**	**2.0**	NT
NH-C23-310	NH-C23-310_303	7/17/2013	NT	**0.87**	**3.5**	NT
NH-C24-305	NH-C24-305_247	12/18/2012	**0.89**	**1.6**	**0.24 J/J**	**0.80**

TABLE 2

SUMMARY OF RECENT ANALYTICAL RESULTS - A-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Sample Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C24-305	NH-C24-305_247	6/21/2013	0.41	4.9	0.84	1.5
NH-C26-310	NH-C26-310-249	09/29/15	0.21	0.74	6.2	24.
NH-C27-290	NH-C27-290_259	10/16/15	5.7	1.2	70.	2.1
NH-C28-290	NH-C28-290_240	10/16/15	11.	11.	47.	45.
NHE-1	NHE-1_240	12/11/2012	3.2	2.6	38.	0.20 J/J
NHE-1	NHE-1_240	7/11/2013	1.1	4.8	71.	0.24
NHE-2	NHE-2	10/19/15	11.	9.8	150	130
NHE-2	NHE-2-Dup6	10/19/15	11.	13.	160	140
NHE-3	NHE-3	11/11/15	1.5	5.6	56.	59. J-
NHE-4	NHE-4	10/05/15	1.8	5.2	16.	6.8 J-
NHE-6	NHE-6	10/05/15	1.0	4.9	13.	3.8 J-
NHE-7	NHE-7	10/07/15	1.4	5.3	5.7	1.9
NHE-7	NHE-7-DUP-2	10/07/15	1.4	5.7	6.1	1.9
NHE-8	NHE-8	10/05/15	1.7	3.9	49.	1.1 J-
NH-MW-06	NH-MW-06_Z1B	12/16/15	3.6 J	140	290	4.6
NH-MW-11	NH-MW-11_Z1A	10/14/15	0.25	170	16.	2.9
PZ-NHE-2S	PZ-NHE-2S_253	10/19/15	0.36	3.4	13.	3.3
PZ-NHE-2D	PZ-NHE-2D_318	10/19/15	1.5	ND(0.50)	4.8	5.3
PZ-NHE-4S	PZ-NHE-4S_243	10/06/15	0.25	0.25 /J	1.3	4.9
PZ-NHE-4D	PZ-NHE-4D_293	10/06/15	0.22	ND(0.50)	0.23 /J	2.3
PZ-NHE-7S	PZ-NHE-7S_235	10/07/15	4.2	1.9	1.9	3.1
PZ-NHE-7D	PZ-NHE-7D_288	10/07/15	2.6	0.98	1.3	1.2

TABLE 2

SUMMARY OF RECENT ANALYTICAL RESULTS - A-ZONE
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Abbreviations
DIL = sample analyzed at dilution
EPA = United States Environmental Protection Agency
ND = not detected at the specific reporting level in parentheses
NT = not tested
µg/L = microgram per liter

Validation Qualifiers
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

Laboratory Qualifiers
B = Compound is also detected in the laboratory method blank.
J = Result is detected below the reporting limit or is an estimated concentration.

TABLE 3

SUMMARY OF RECENT ANALYTICAL RESULTS - B-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Date	Value Qual	Value Qual	Value Qual	Value Qual
4909C	4909C_392	1/7/2013	ND(0.13) U	**0.18 J/J**	**2.7**	**0.41**
4909C	4909C_392	7/12/2013	**0.49**	**0.23 J/J**	**10.**	ND(0.20) U
4909C	4909C_398	1/7/2013	ND(0.14) U	**0.37 J/J**	**3.6**	**0.32**
4909C	4909C_398	7/12/2013	**0.49**	**0.52**	**18.**	**0.37**
4918A	4918A_483	12/20/2012	**8.7**	ND(0.50) U	**2.6**	ND(0.20) UJ
GW-18B	GW-18B_402	12/5/2012	ND(0.38) U	**0.31 J/J**	**8.4**	**0.39**
GW-18B	GW-18B_402	6/19/2013	**0.63**	**0.30 J/J**	**11.**	**0.34**
GW-18B	GW-18B_402-dup-1	6/19/2013	**0.43**	**0.34 J/J**	**11.**	**0.33**
GW-18B	GW-18B_405	12/6/2012	**0.41**	**0.25 J/J**	**7.3**	**0.40**
GW-18B	GW-18B_405_DUP-1	12/6/2012	**0.39**	**0.29 J/J**	**7.4**	**0.41**
GW-18B	GW-18B_405	6/19/2013	**0.48**	**0.29 J/J**	**11.**	**0.28**
GW-19B	GW-19B_401.5	12/13/2012	ND(0.082) U	**0.22 J/J**	**0.42 J/J**	**0.53**
GW-19B	GW-19B_401.5_DUP-2	12/13/2012	ND(0.07) U/J	**0.17 J/J**	**0.37 J/J**	**0.55**
GW-19B	GW-19B_401.5	6/24/2013	ND(0.26) U	**0.19 J/J**	**2.9**	**0.44**
GW-19B	GW-19B_405.5	12/13/2012	ND(0.10) U	**0.18 J/J**	**0.39 J/J**	**0.55**
GW-19B	GW-19B_405.5	6/19/2013	ND(0.29) U	**0.25 J/J**	**4.0**	**0.45**
HP-MW-8D	MW-8d_396	10/16/15	ND(0.07)	ND(0.50)	**0.22 /J**	**2.7**
LA1-CW05	LA1-CW05_339	12/10/2012	**1.8**	**6.0**	**2.0**	**0.30**
LA1-CW05	LA1-CW05_339	7/15/2013	**2.0**	**5.4**	**1.8**	ND(0.20) U
LA1-CW05	LA1-CW05_356	12/10/2012	**1.9 J**	**19.**	**2.5**	**0.26**
LA1-CW05	LA1-CW05_356	7/15/2013	**1.9**	**6.2**	**1.8**	**0.27**
LA1-CW05	LA1-CW05_356-dup-6	7/15/2013	**1.9**	**6.2**	**1.9**	**0.24**

TABLE 3

SUMMARY OF RECENT ANALYTICAL RESULTS - B-ZONE
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C01-450	NH-C01-450_403	12/27/2012	**1.8**	**0.63**	**2.2**	ND(0.20) U
NH-C01-450	NH-C01-450_403	7/26/2013	**2.2**	**0.98**	**2.8**	**0.24**
NH-C01-450	NH-C01-450_447	12/27/2012	**1.9**	ND(0.50) U	**0.56**	ND(0.20) U
NH-C01-450	NH-C01-450_447	7/26/2013	**2.0**	**0.30 J/J**	**2.2**	ND(0.20) U
NH-C03-380	NH-C03-380_317	10/06/15	**0.23**	ND(0.50)	**0.76**	ND(0.20)
NH-C05-460	NH-C05-460_425	7/26/2013	**0.05 J/J**	ND(0.50) U	**4.0**	**0.12 J/J**
NH-C10-360	NH-C10-360_340	12/14/2012	**1.5**	**2.2**	**3.4**	**1.4**
NH-C10-360	NH-C10-360_340	6/25/2013	**1.6**	**3.2**	**4.4**	**1.5 J**
NH-C10-360	NH-C10-360_340	10/01/15	**3.0**	**2.0**	**2.9**	**1.4**
NH-C10-360	NH-C10-360_340-DUP-1	10/01/15	**3.0**	**2.1**	**3.0**	**1.4**
NH-C12-360	NH-C12-360_343	12/26/2012	**0.86**	**0.98**	**0.47 J/J**	**0.51 J-/BU**
NH-C12-360	NH-C12-360_343	6/24/2013	**0.92**	**1.5**	**0.39 J/J**	**0.28**
NH-C12-360	NH-C12-360_343	09/30/15	**0.78**	**1.1**	**0.54**	**0.36**
NH-C13-385	NH-C13-385_363	12/12/2012	ND(0.16) U	**0.15 J/J**	**7.3**	**1.5**
NH-C13-385	NH-C13-385_363	7/11/2013	ND(0.23) U	**0.26 J/J**	**5.5**	**1.3**
NH-C15-330	NH-C15-330_293	7/16/2013	ND(0.28) U	**0.98**	**10.**	**2.6**
NH-C15-330	NH-C15-330_327	7/17/2013	ND(0.35) U	**0.92**	**9.3**	**2.4**
NH-C16-390	NH-C16-390_375	12/4/2012	**1.3**	**2.0**	**24.**	**0.43**
NH-C16-390	NH-C16-390_375	7/8/2013	**1.3**	**1.5**	**25.**	**0.47**
NH-C16-390	NH-C16-390_375-dup-5	7/8/2013	**1.3**	**1.4**	**24.**	**0.41**
NH-C17-339	NH-C17-339_313	1/2/2013	**1.2**	**1.5**	**0.79**	**0.72**
NH-C17-339	NH-C17-339_313	7/2/2013	**0.82**	**1.3**	**4.3**	**1.3**
NH-C17-339	NH-C17-339_313	10/02/15	**1.0**	**0.73**	**4.0**	**1.2**

TABLE 3

SUMMARY OF RECENT ANALYTICAL RESULTS - B-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C18-365	NH-C18-365_348	12/7/2012	**3.3 J**	**2.8**	**38.**	**6.8**
NH-C18-365	NH-C18-365_348	7/15/2013	**1.5**	**1.1**	**71. J**	**11.**
NH-C18-365	NH-C18-365_348	10/12/15	**0.88**	**0.29 /J**	**22.**	**5.1 J-**
NH-C19-360	NH-C19-360_343	1/11/2013	NT	**2.3**	**45.**	NT
NH-C19-360	NH-C19-360_343_DUP-6	1/11/2013	NT	**2.5**	**46.**	NT
NH-C19-360	NH-C19-360_343	7/17/2013	NT	**2.6**	**46.**	NT
NH-C19-360	NH-C19-360_349	12/21/2012	**2.3**	**2.1**	**38.**	**1.4**
NH-C19-360	NH-C19-360_349	6/27/2013	**2.3**	**0.71**	**26.**	**1.2**
NH-C19-360	NH-C19-360_353	1/11/2013	NT	**2.2**	**44.**	NT
NH-C19-360	NH-C19-360_353	7/17/2013	NT	**2.6**	**47.**	NT
NH-C20-380	NH-C20-380_361	12/19/2012	**1.3**	**1.1**	**71.**	**0.43**
NH-C20-380	NH-C20-380_361	7/10/2013	**1.3**	**1.6**	**48. J**	**0.45**
NH-C20-380	NH-C20-380_361	10/26/15	**2.3**	**0.60**	**26.**	**0.64**
NH-C21-340	NH-C21-340_325	1/4/2013	**2.0**	**1.7**	**18.**	**21.**
NH-C21-340	NH-C21-340_325_DUP-4	1/4/2013	**2.1**	**1.6**	**16.**	**21.**
NH-C21-340	NH-C21-340_325	7/9/2013	**1.9**	**1.2**	**65. J**	**18.**
NH-C21-340	NH-C21-340_325	10/08/15	**2.2**	**1.1**	**82.**	**13. J-**
NH-C23-400	NH-C23-400_343	12/28/2012	**2.2**	**2.0**	**58.**	**0.42**
NH-C23-400	NH-C23-400_343	1/11/2013	NT	**0.32 J/J**	**26.**	NT
NH-C23-400	NH-C23-400_343	7/1/2013	**1.6**	**1.6**	**48.**	**0.29**
NH-C23-400	NH-C23-400_343	7/17/2013	NT	ND(0.50) U	**0.13 J/J**	NT
NH-C23-400	NH-C23-400_353	1/11/2013	NT	**2.5**	**80.**	NT
NH-C23-400	NH-C23-400_353	7/17/2013	NT	ND(0.50) U	**0.18 J/J**	NT
NH-C23-400	NH-C23-400_363	1/11/2013	NT	**2.5**	**80.**	NT
NH-C23-400	NH-C23-400_363	7/17/2013	NT	ND(0.50) U	**0.16 J/J**	NT
NH-C23-400	NH-C23-400_373	1/11/2013	NT	**2.2**	**81.**	NT

TABLE 3

SUMMARY OF RECENT ANALYTICAL RESULTS - B-ZONE
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	Test Method	EPA 522	EPA 524.2		EPA 218.6
		Analyte/ Units:	1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Date	Value Qual	Value Qual	Value Qual	Value Qual
NH-C23-400	NH-C23-400_373	7/17/2013	NT	ND(0.50) U	**0.19 J/J**	NT
NH-C23-400	NH-C23-400_383	1/11/2013	NT	**2.0**	**77. J**	NT
NH-C23-400	NH-C23-400_383	7/17/2013	NT	ND(0.50) U	**0.53**	NT
NH-C23-400	NH-C23-400_393	1/11/2013	NT	**1.8**	**73.**	NT
NH-C23-400	NH-C23-400_393	7/17/2013	NT	ND(0.50) U	**0.80**	NT
NH-C23-400	NH-C23-400_393-dup-8	7/17/2013	NT	ND(0.50) U	**0.73**	NT
NH-C23-400	NH-C23-400_397	12/28/2012	**1.4**	**0.89**	**45.**	**0.45**
NH-C23-400	NH-C23-400_397	7/1/2013	**1.6**	**1.2**	**48.**	**0.37**
NH-C26-385	NH-C26-385_360	10/07/15	**3.0**	**0.24 /J**	**8.6**	**3.0**
NH-MW-11	NH-MW-11_Z2	10/14/15	**0.30**	**0.65 J**	**15.**	**2.5**

TABLE 3

SUMMARY OF RECENT ANALYTICAL RESULTS - B-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Abbreviations
EPA = United States Environmental Protection Agency
ND = not detected at the specific
NT = not tested
µg/L = microgram per liter

Validation Qualifiers
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

Laboratory Qualifiers
B = Compound is also detected in the laboratory method blank.
J = Result is detected below the reporting limit or is an estimated concentration.

TABLE 4

SUMMARY OF RECENT ANALYTICAL RESULTS - BELOW B-ZONE

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Well	Sample	EPA 522	EPA 524.2		EPA 218.6
		1,4-Dioxane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	Chromium VI (µg/L)
		Value Qual	Value Qual	Value Qual	Value Qual
NH-MW-06	NH-MW-06_Z2	ND(0.07)	ND(0.50)	ND(0.50)	**2.7 J-**
NH-MW-06	NH-MW-06_Z3	ND(0.07)	ND(0.50)	ND(0.50)	**3.0 J-**
NH-MW-11	NH-MW-11_Z3	ND(0.07)	ND(0.50)	ND(0.50)	**3.5**

Abbreviations

EPA = United States Environmental Protection Agency
ng/L = nanogram per liter
ND = not detected at the
NT = not tested
µg/L = microgram per liter

Validation Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

Laboratory Qualifiers

B = Compound is also detected in the laboratory method blank.
J = Result is detected below the reporting limit or is an estimated concentration.

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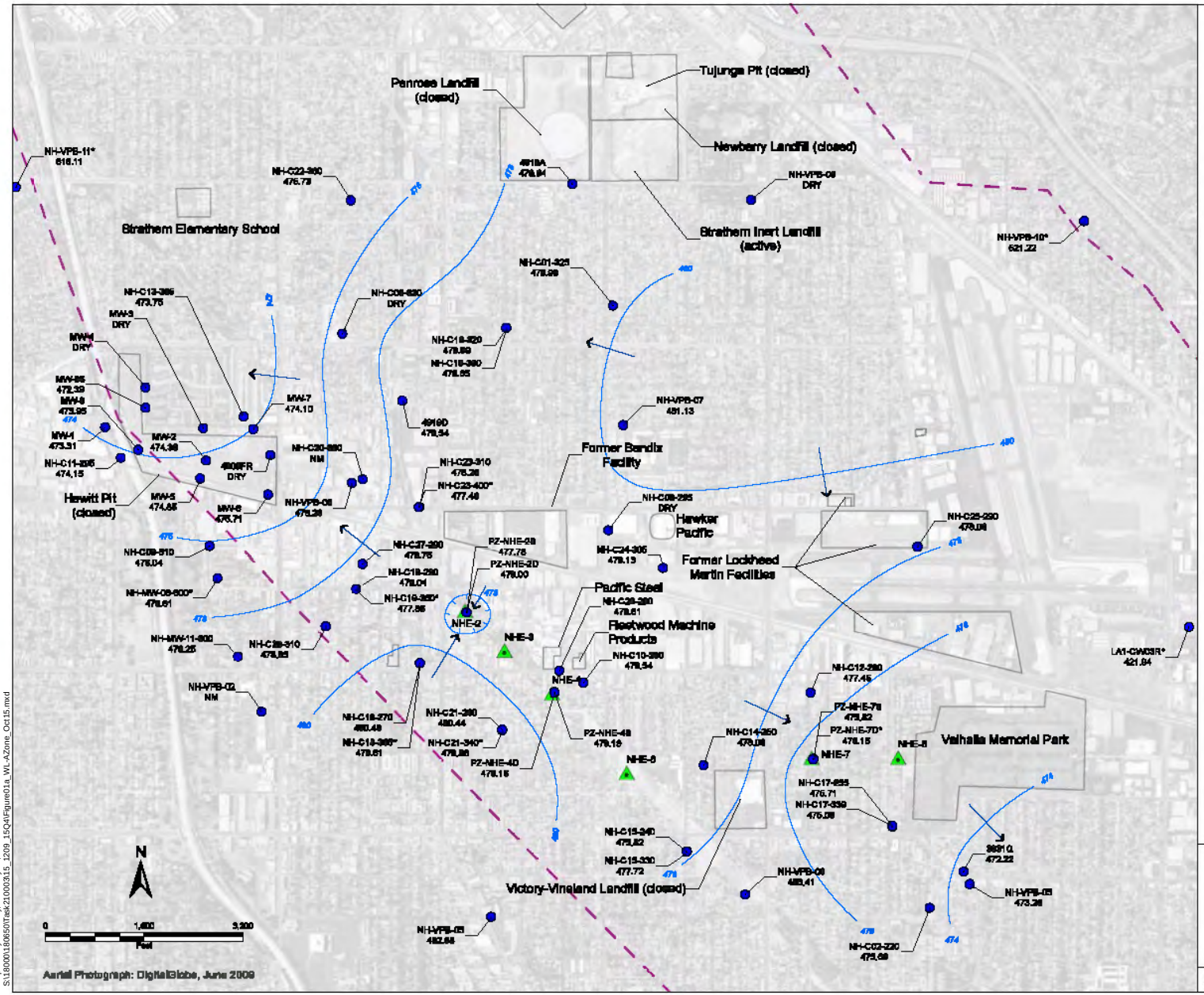
wheeler

FIGURES



EXPLANATION

- Well with Groundwater Elevation
- NHOU Extraction Well
- Groundwater Elevation Contour (Feet NAVD88)
- Groundwater Flow Direction
- Approximate Boundary San Fernando Valley Investigation Area 1

NOTE:

- Depth to water levels were measured between October 13-15, 2015 except at MW-NH-06-300, which was measured on December 16, 2015.
- Groundwater elevation not used for contouring indicated with *.
- NM = not measured

POTENTIOMETRIC MAP
A-ZONE GROUNDWATER
FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

Date: 2/2016 | Project No. 6515150650

amec foster wheeler

Figure 1a

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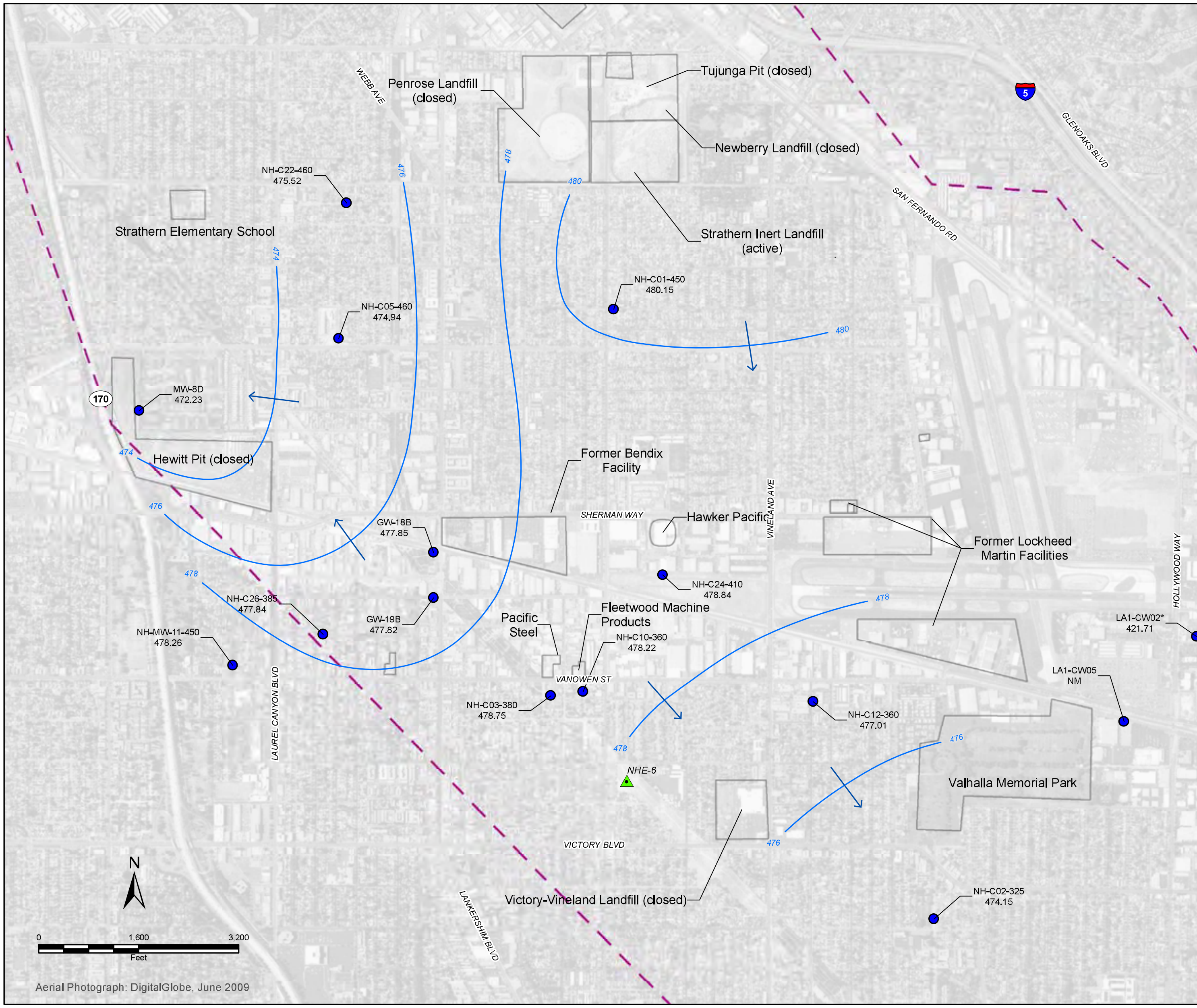

EXPLANATION

- Well with Groundwater Elevation
- NHOU Extraction Well
- Groundwater Elevation Contour (Feet NAVD88)
- Groundwater Flow Direction
- Approximate Boundary San Fernando Valley Investigation Area 1

NOTE:
- Depth to water levels were measured between October 13-15, 2015.
- Groundwater elevation not used for contouring indicated with *.
- NM = not measured

POTENTIOMETRIC MAP
B-ZONE GROUNDWATER
FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016 | Project No. 8615180650

Figure
1b

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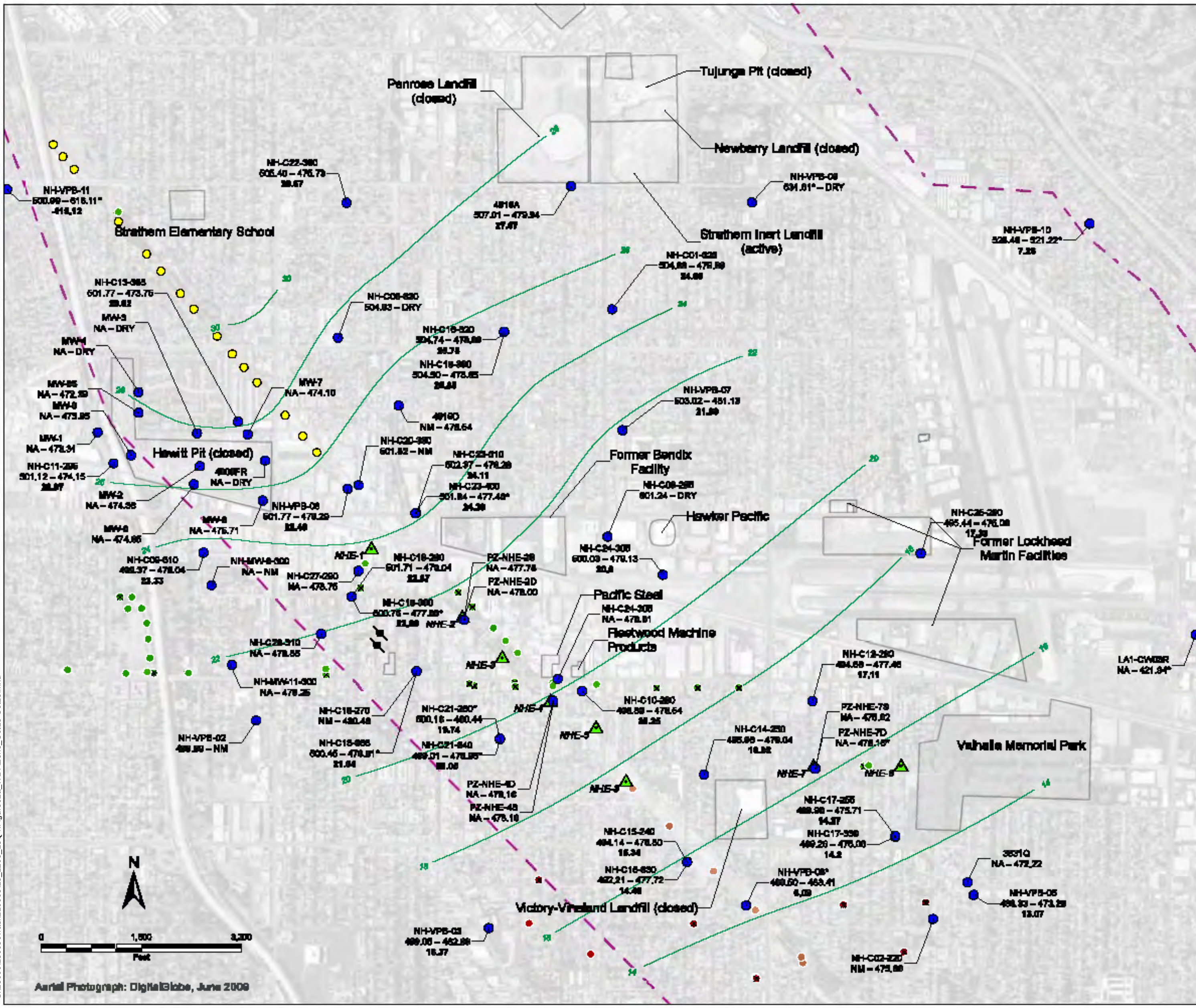

EXPLANATION

- Well with Groundwater Elevation
- Well ID [1] — NH-C18-280 / 501.71 – 479.04 / 22.67 — Fall 2015 WL [3]; Fall 2013 WL [2]; Delta Head Value
- Decrease in Groundwater Elevation Fall 2013 – Fall 2015 (feet)
- NHOU Extraction Well
- North Hollywood (NH) Production Well
- Inactive North Hollywood (NH) Production Well
- Rinaldi-Toluca (RT) Production Well
- Whitnall (WH) Production Well
- Inactive Whitnall (WH) Production Well
- Erwin (EW) Production Well
- Inactive Erwin (EW) Production Well
- Abandoned Production Well
- Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviation:
NA = not applicable (well was not part of Fall 2013 sampling)
NM = not measured
WL = water level (groundwater elevation in feet NAVD88)

Notes:
1. Groundwater elevation excluded for contouring in head analysis indicated with asterisk (*) here.
2. Groundwater elevation excluded for contouring in Fall 2013 indicated with asterisk (*) here.
3. Groundwater elevation excluded for contouring in Fall 2015 indicated with asterisk (*) here.

SEPTEMBER 2013 – OCTOBER 2015
DELTA POTENTIOMETRIC MAP
A-ZONE GROUNDWATER
FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

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Date: 2/2016 | Project No. 6516150650 | Figure 2a

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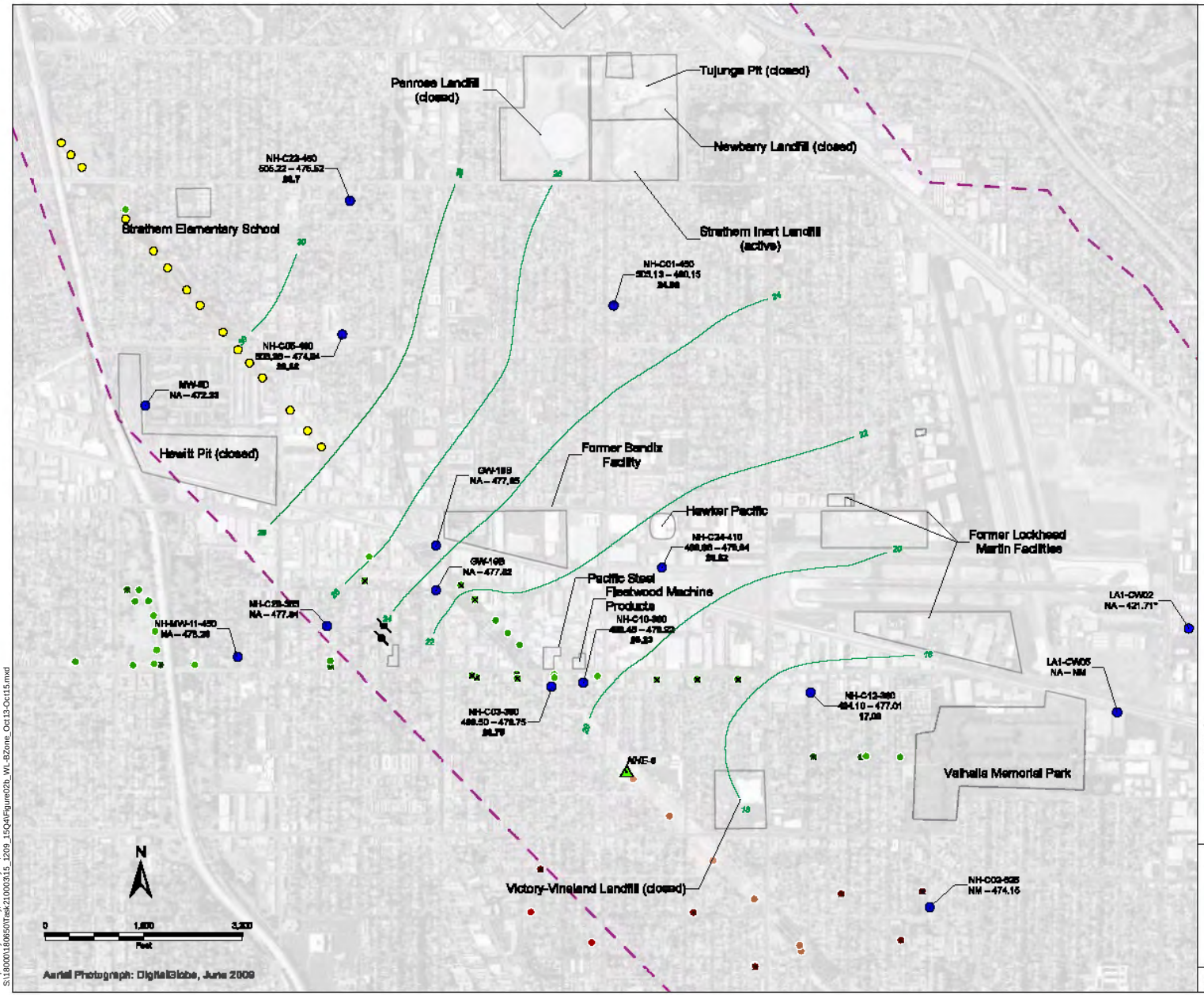

Abbreviation:
NA = not applicable (well was not part of Fall 2013 sampling)
NM = not measured
WL = water level (groundwater elevation in feet NAVD88)

Note:
1. Groundwater elevation excluded for contouring in Fall 2015 indicated with asterisk (*) here.

SEPTEMBER 2013 – OCTOBER 2015 DELTA POTENTIOMETRIC MAP B-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT North Hollywood Operable Unit Los Angeles County, California

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Figure 2b

Date: 2/2016 | Project No. 6515150650

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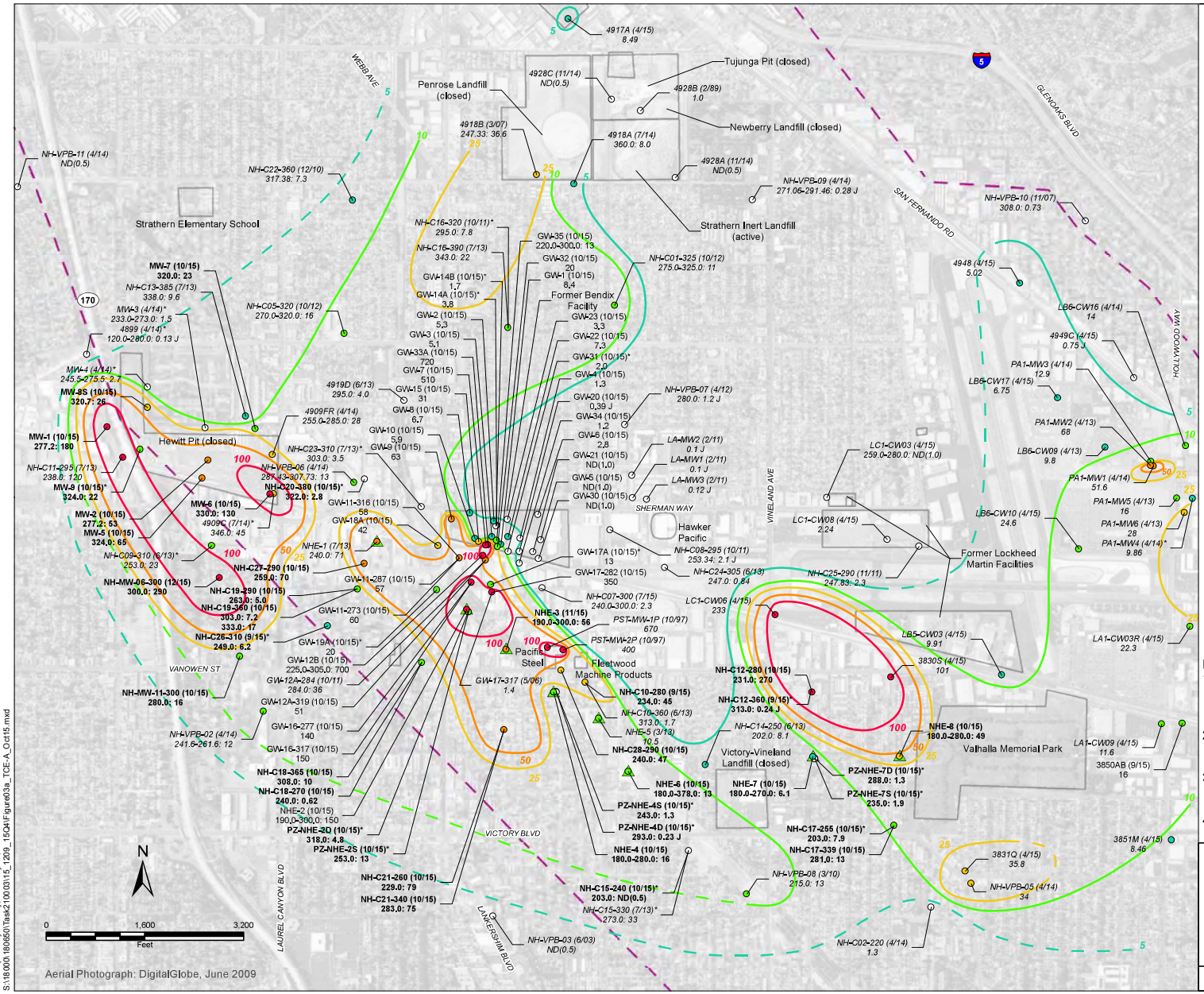

EXPLANATION

TCE concentration (µg/L) of sample collected in A-Zone

- <5
- 5 - 10
- 10 - 25
- 25 - 50
- 50 - 100
- >100

Well ID [1] — Sample Date

NH-C10-280 (9/15)
234.0: 45

Sample depth [2] — TCE concentration in groundwater (µg/L) [3]

NHOU Extraction Well

Concentration Contours (µg/L) [4] (Dashed where inferred)

- 5
- 10
- 25
- 50
- 100

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:

µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled
TCE = Trichloroethene

Notes:

1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
4. TCE concentration not used for contouring indicated with (*)

TCE DISTRIBUTION IN A-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT North Hollywood Operable Unit Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure 3a

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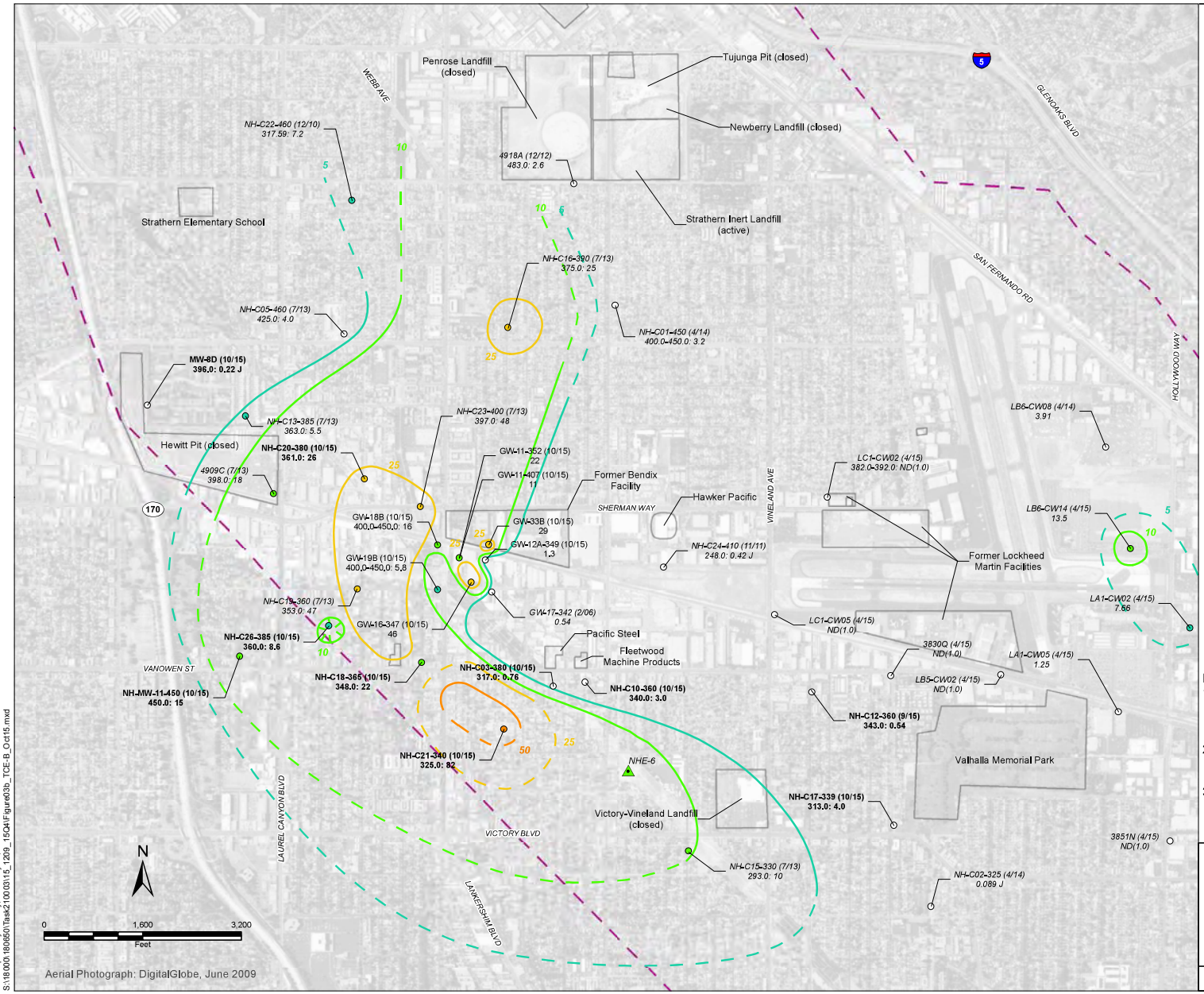

EXPLANATION

TCE concentration (µg/L) of sample collected in B-Zone

- <5
- 5 - 10
- 10 - 25
- 25 - 50
- 50 - 100
- >100

Well ID [1] — Sample Date

NH-C17-339 (10/15)
313.0: 4.0

Sample depth [2] — TCE concentration in groundwater (µg/L) [3]

NHOU Extraction Well

Concentration Contours (µg/L)
(Dashed where inferred)

- 5
- 10
- 25
- 50
- 100

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:
µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled
TCE = Trichloroethene

Notes:
1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

TCE DISTRIBUTION IN B-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016 | Project No. 8615180650 | Figure 3b

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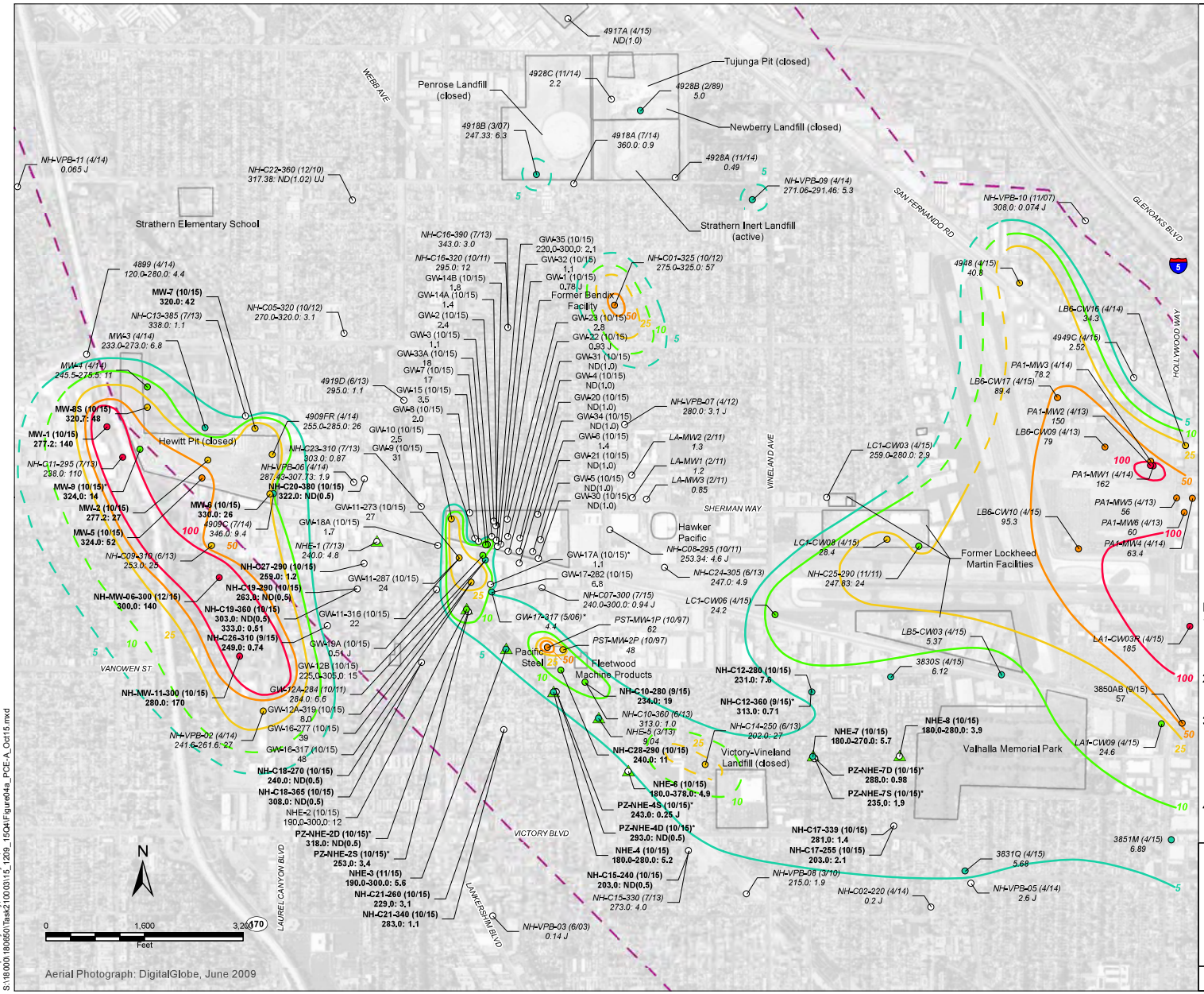


EXPLANATION

PCE concentration (µg/L) of sample collected in A-Zone

- <5
- 5 - 10
- 10 - 25
- 25 - 50
- 50 - 100
- >100

Well ID [1] — Sample Date

NHE-3 (11/15) 190.0-300.0: 5.6

Sample depth [2] — PCE concentration in groundwater (µg/L) [3]

NHOU Extraction Well

Concentration Contours (µg/L) [4] (Dashed where inferred)

- 5
- 10
- 25
- 50
- 100

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:

µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled
PCE = Tetrachloroethene

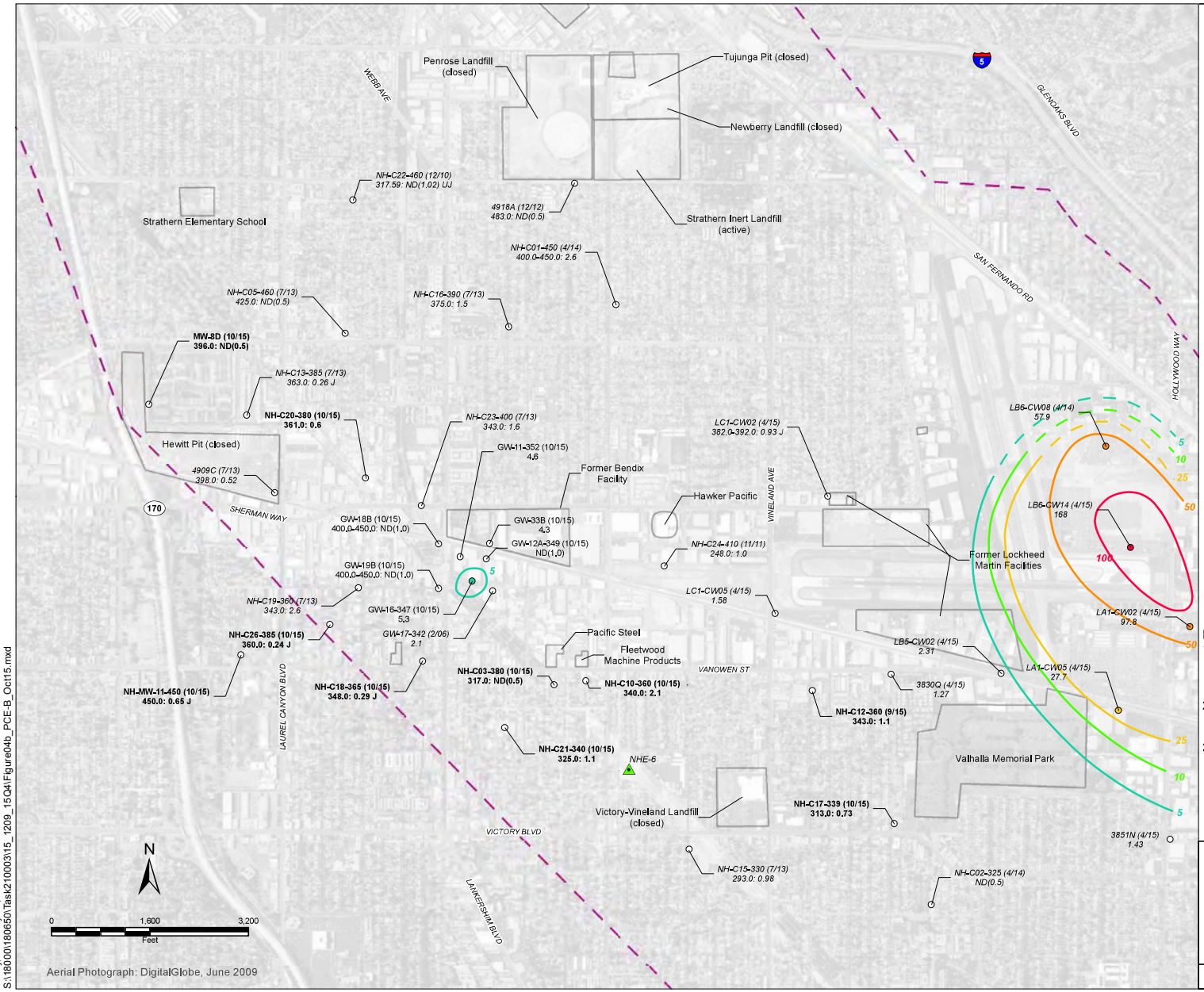
Notes:

1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). UJ indicates the analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.
4. PCE concentrations not used for contouring indicated with an asterisk (*).

PCE DISTRIBUTION IN A-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT North Hollywood Operable Unit Los Angeles County, California

amec foster wheeler

Date: 2/2016 | Project No. 8615180650 | Figure 4a



EXPLANATION

PCE concentration (µg/L) of sample collected in B-Zone

- <5
- 5 - 10
- 10 - 25
- 25 - 50
- 50 - 100
- >100

Well ID [1] — Sample Date

NH-C12-360 (9/15)
343.0: 1.10

Sample depth [2] — PCE concentration in groundwater (µg/L) [3]

NHOU Extraction Well

Concentration Contours (µg/L)
(Dashed where inferred)

- 5
- 10
- 25
- 50
- 100

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:
µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled
PCE = Tetrachloroethene

Notes:
1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). UJ indicates the analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

PCE DISTRIBUTION IN
B-ZONE GROUNDWATER
FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016 | Project No. 8615180650 | Figure 4b

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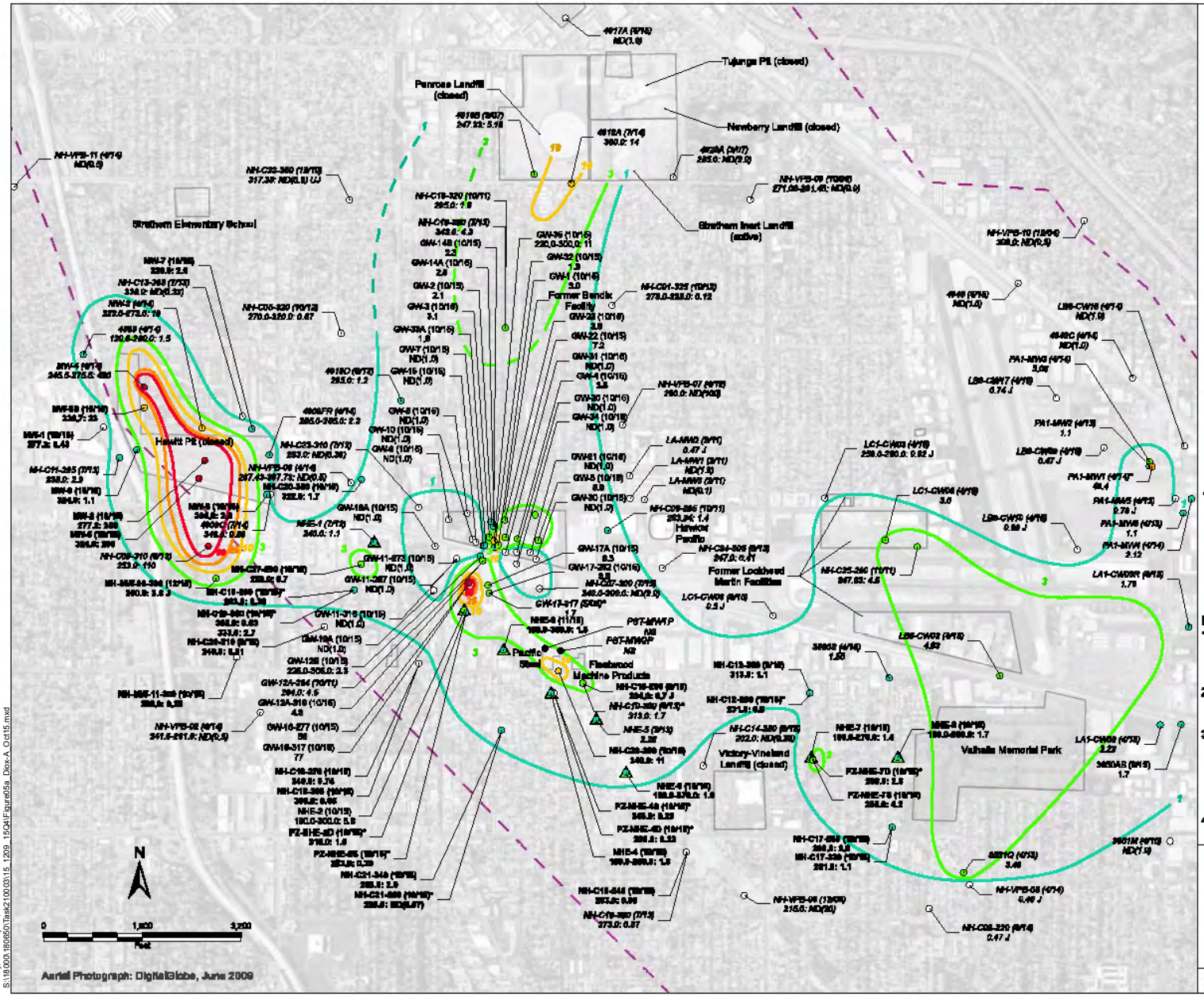

EXPLANATION

1,4-Dioxane concentration (µg/L) of sample collected in A-Zone

<1	3 - 10	25 - 60
1 - 3	10 - 25	>50

Well ID [1] — Sample Date

NHE-4 (10/15)
160.0-290.0: 1.6

Sample depth [2] — 1,4-Dioxane concentration in groundwater (µg/L) [3]

NHOU Extraction Well

Concentration Contours (µg/L) [4] (Dashed where inferred)

1	10	50
3	25	

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:
µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parentheses
NS = not sampled

Notes:
1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2016 are indicated in bold. Sample data indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). UJ indicates the analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.
4. PCE concentrations not used for contouring indicated with an asterisk (*).

1,4-DIOXANE DISTRIBUTION IN A-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Figure 5a

Date: 2/2016 | Project No. 6515180650

Friday, February 12, 2016 10:12:59 AM
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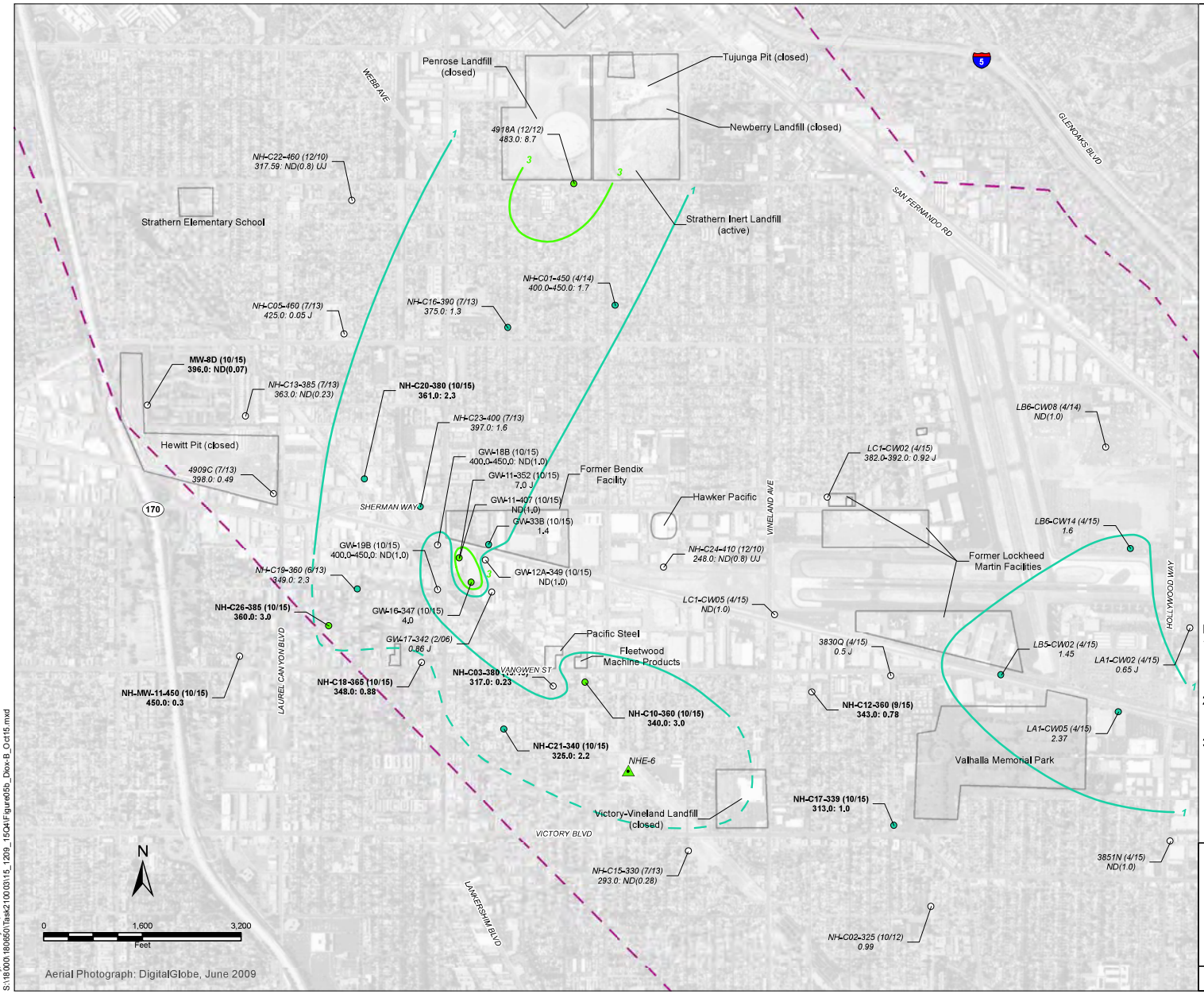

EXPLANATION

1,4-Dioxane concentration (µg/L) of sample collected in B-Zone

○ <1 ● 1 - 3 ● 3 - 10

Well ID [1] — Sample Date

NH-C17-339 (10/15)
313.0: 1.0

Sample depth [2] — 1,4-Dioxane concentration in groundwater (µg/L) [3]

▲ NHOU Extraction Well

Concentration Contours (µg/L)
(Dashed where inferred)

1 3

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:
µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled

Notes:
1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). UJ indicates the analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

1,4-DIOXANE DISTRIBUTION IN B-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT North Hollywood Operable Unit Los Angeles County, California

amec foster wheeler

Date: 2/2016 | Project No. 8615180650 | Figure 5b

Friday, February 12, 2016 10:14:38 AM
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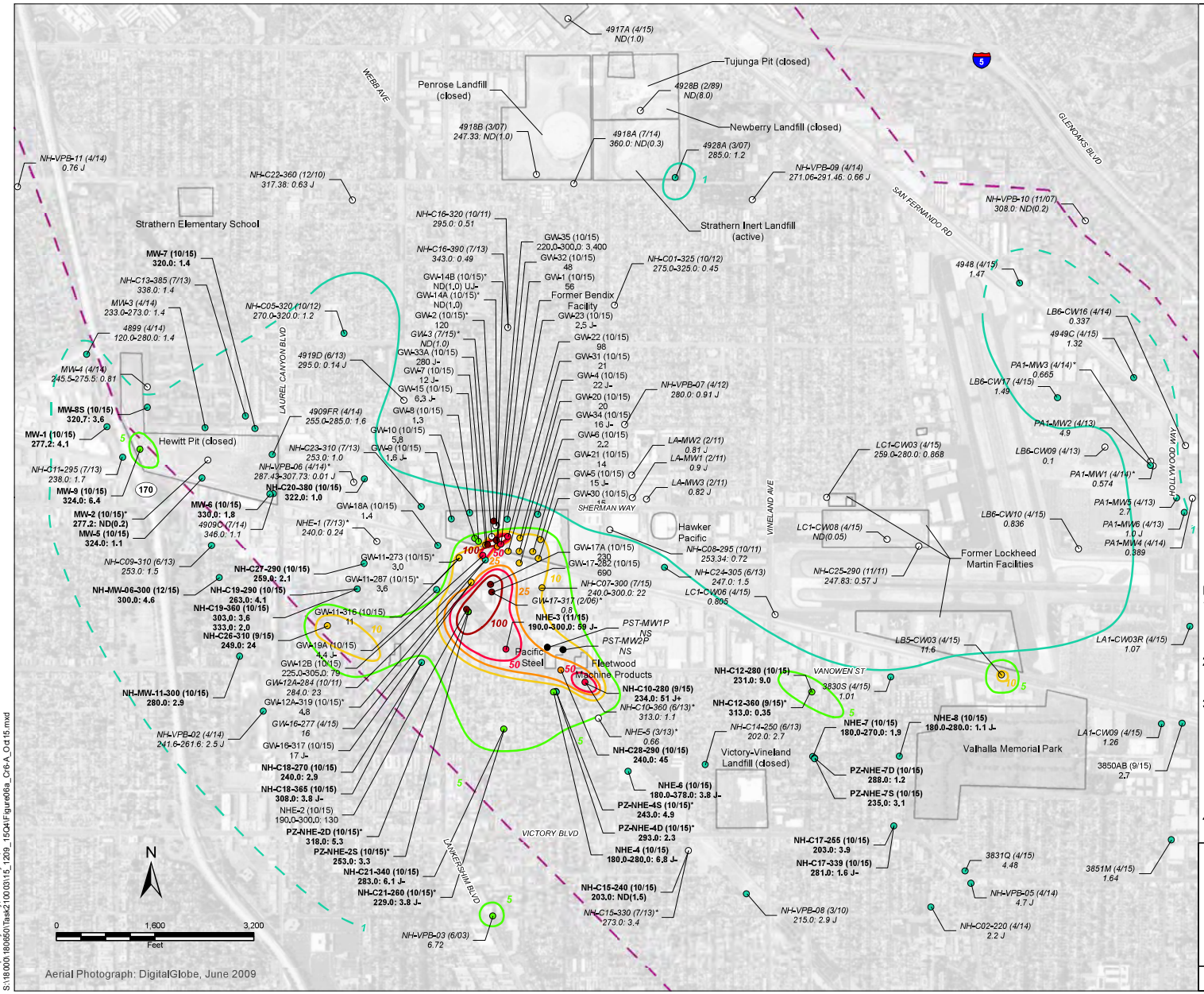

EXPLANATION

Cr VI concentration (µg/L) of sample collected in A-Zone

○ <1	● 5 - 10	● 25 - 50	● > 100	
● 1 - 5	● 10 - 25	● 50 - 100		

Well ID [1] — Sample Date

NH-C18-365 (10/15)
308.0: 3.8

Sample depth[2] — CrVI concentration in groundwater (µg/L)[3]

▲ NHOU Extraction Well

Concentration Contours (µg/L)[4]
(Dashed where inferred)

1	10	50
5	25	>100

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:
µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled
Cr VI = Chromium VI

Notes:
1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses.
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias. UJ indicates the analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.
4. Cr VI concentrations not used for contouring indicated with an asterisk (*).

CHROMIUM VI DISTRIBUTION IN A-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016 | Project No. 8615180650 | Figure 6a

reuben.pillsbury Friday, February 12, 2016 10:16:18 AM
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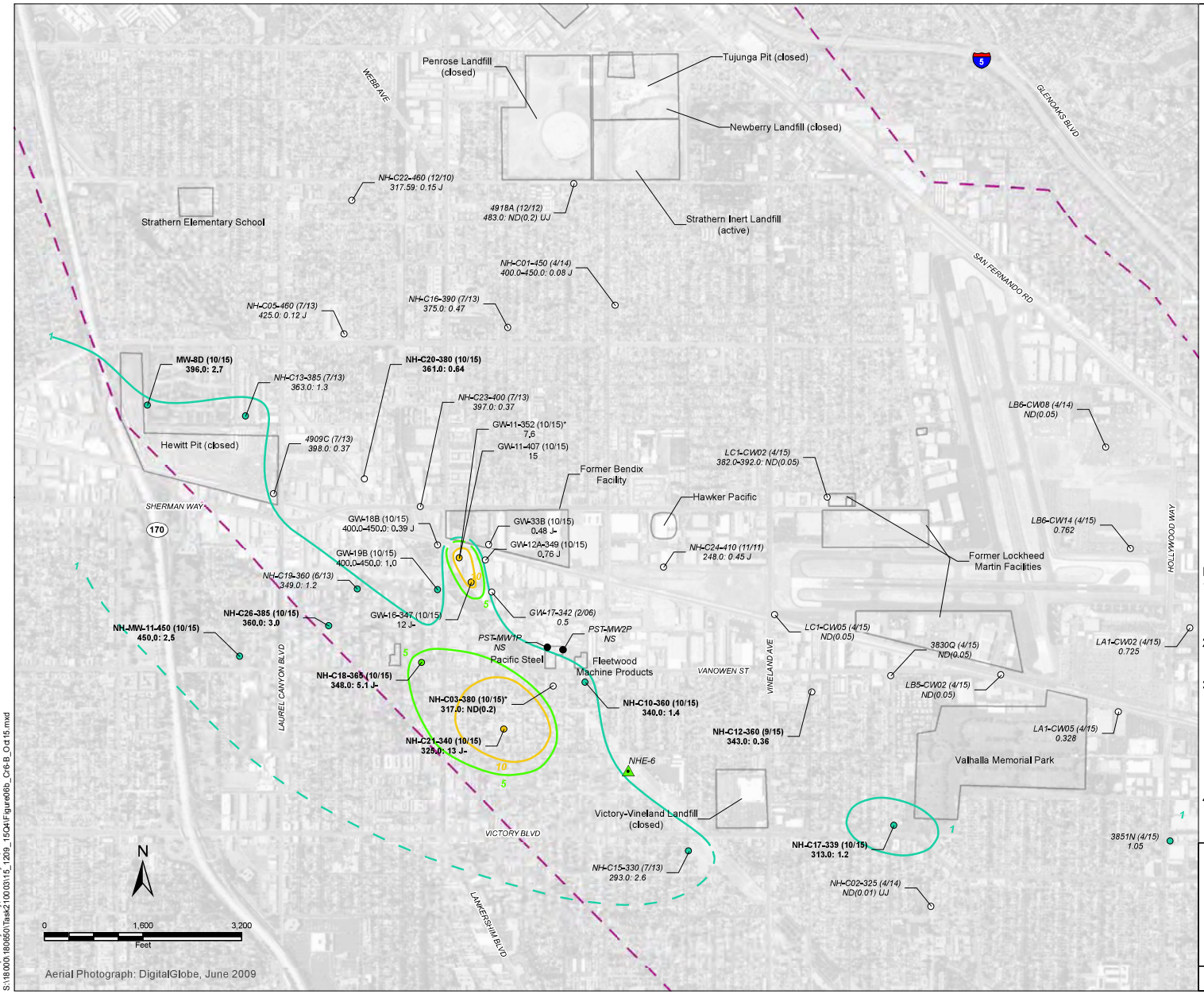

EXPLANATION

Cr VI concentration (µg/L) of sample collected in B-Zone

○ <1 ● 1 - 5 ● 5 - 10 ● 10 - 25

Well ID [1] — Sample Date

NH-C18-365 (10/15)
348.0: 5.1

Sample depth[2] — Cr VI concentration in groundwater (µg/L)[3]

▲ NHOU Extraction Well

Concentration Contours (µg/L)[4]
(Dashed where inferred)

1 5 10

Approximate Boundary San Fernando Valley Investigation Area 1

Abbreviations:

µg/L = micrograms per liter
ND = not detected above reporting limit indicated in parantheses
NS = not sampled
Cr VI = Chromium VI

Notes:

1. Samples collected prior to Fall 2015 sampling event indicated in italics. The sample results obtained by Amec Foster Wheeler in Fall 2015 are indicated in bold. Sample date indicated in parentheses..
2. Where available, sample depths are indicated in feet below top of casing. Results for locations with multiple depth-discrete samples are displayed by increasing depth.
3. J qualifier indicates estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias. UJ indicates the analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.
4. Cr VI conncentrations not used for contouring indicated with an asterisk (*).

CHROMIUM VI DISTRIBUTION IN B-ZONE GROUNDWATER FALL 2015 SAMPLING EVENT
North Hollywood Operable Unit
Los Angeles County, California

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Date: 2/2016 | Project No. 8615180650 | Figure 6b

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ATTACHMENT A

Results of Detected Analytes

ATTACHMENT A

ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	1,4-DIOXANE	HEXAVALENT CHROMIUM	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROPANE
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	**0.43**	**4.1**	<0.50	**1.2**	<0.50	**0.31J**	**0.50J**	**1.5**	**11**	<0.50	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	**250**	<0.20	<0.50	<0.50	<0.50	**0.22J**	<0.50	**2.9**	**0.89**	<0.50	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	**280**	**1.1**	<0.50	<0.50	<0.50	**0.37J**	<0.50	**4.4**	**1.1**	<0.50	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	**2.3**	**1.8**	<0.50	**0.28J**	<0.50	**0.48J**	<0.50	**3.3**	**1.3**	<0.50	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	**2.0**	**1.4**	<0.50	<0.50	<0.50	<0.50	<0.50	**6.3**	**0.28J**	<0.50	<0.50	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<0.070	**2.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	**23**	**3.6**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.35J**	**4.1**	<0.50	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	**1.1**	**6.4**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.26J**	**2.1**	<0.50	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	**0.23**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	**6.7J**	**51J+**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.25J**	**0.40J**	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	**3.0**	**1.4**	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	**3.0**	**1.4**	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	<0.50	<0.50	<0.50	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	**0.80**	**9.0**	<0.50	**0.72**	<0.50	<0.50	<0.50	**0.52**	**15**	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	**1.1**	**0.35**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.79**	<0.50	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	**0.78**	**0.36**	<0.50	<0.50	<0.50	<0.50	<0.50	**1.7**	<0.50	<0.50	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	**0.090**	**1.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	**2.8**	**3.9**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.44J**	**0.54**	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	**1.1**	**1.6J-**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.24J**	**0.21J**	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	**1.0**	**1.2**	<0.50	<0.50	<0.50	<0.50	<0.50	**1.2**	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	**0.74**	**2.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	**0.65**	**2.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

ATTACHMENT A

ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2,2-DICHLOROPROPANE
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.45J**	**0.44J**	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.57**	**0.51**	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	**0.26J**	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	**0.79**	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.74**	**0.49J**	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.44J**	**0.20J**	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.47J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.23J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.21J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.30J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.22J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

ATTACHMENT A

ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	2-BUTANONE	2-CHLOROTOLUENE	2-HEXANONE	2-PROPENENITRILE, 2-METHYL-	4-CHLOROTOLUENE	4-METHYL-2-PENTANONE	ACETONE	ACRYLONITRILE	ALLYL CHLORIDE	BENZENE	BROMOBENZENE	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	**5.1J**	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	**4.0J**	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	**1.1**
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	**4.5J**	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50

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Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	BROMOFORM	BROMOMETHANE	BUTYLBENZENE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	Dibromochloromethane
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.7**	<0.50	**1.0**	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.94**	<0.50	**6.7**	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.5**	<0.50	**6.6**	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.1**	<0.50	**3.8**	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.5**	<0.50	**2.1**	<0.50	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.1**	<0.50	**1.3**	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.84**	<0.50	**0.23J**	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	<0.50	<0.50	<0.50	**1.8**	<0.50	<0.50	<0.50	**0.29J**	<0.50	**0.86J**	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	<0.50	<0.50	<0.50	<0.50	**0.97**	<0.50	<0.50	**2.7**	<0.50UJ	**0.73**	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.27J**	<0.50	**14**	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.25J**	<0.50	**14**	<0.50	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	<0.50	<0.50	<0.50	<0.50	**1.1**	<0.50	<0.50	**4.7J**	<0.50	**0.79J**	<0.50	**0.23J**
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	<0.50	<0.50	<0.50	<0.50	**0.21J**	<0.50	<0.50	<0.50	<0.50	**0.45J**	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.64J**	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99	<0.50	<0.50	<0.50	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.51**	<0.50	**1.5**	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	<0.50	<0.50	<0.50	<0.50	**0.33J**	<0.50	<0.50	**0.55**	<0.50	**0.41J**	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.33J**	<0.50	**0.59**	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8**	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.7**	<0.50	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	DIETHYL ETHER	ETHANOL	ETHYL METHACRYLATE	ETHYLBENZENE	HEXACHLOROBUTADIENE	IODOMETHANE	ISOPROPYLBENZENE	METHYL METHACRYLATE	METHYL TERT-BUTYL ETHER	METHYLENE CHLORIDE
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	<0.50	**0.53**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	<0.50	**15**	**0.33J**	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	<0.50	**19**	**0.42J**	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	<0.50	**4.5**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	<0.50	**2.4**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	**0.41J**	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	<0.50	**1.6**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	<0.50	**0.24J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	<0.50	**0.21J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	<0.50	**0.30J**	<0.50	<50UJ	<2.0UJ	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	<0.50	**4.8**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	<0.50	**4.7**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	**0.97**	<0.50
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	<0.50	**0.78**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	<0.50	**1.9**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	**0.35J**	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	<0.50	**0.82**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	<0.50	**0.46**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	<0.50	**1.2**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	N-PROPYLBENZENE	NAPHTHALENE	O-XYLENE	P-ISOPROPYLTOLUENE	SEC-BUTYLBENZENE	STYRENE	TERT-BUTYLBENZENE	TETRACHLOROETHENE	TETRAHYDROFURAN	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**140**	<5.0	<0.50	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**27**	**4.4J**	<0.50	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**52**	**4.5J**	<0.50	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**26**	<5.0	<0.50	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**42**	<5.0	<0.50	<0.50	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**48**	<5.0	<0.50	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	<5.0	<0.50	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**19**	<5.0UJ	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.0**	<5.0	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.1**	<5.0	<0.50	**0.30J**	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.6**	<5.0	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.71**	<5.0UJ	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	<5.0	<0.50	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.1**	<5.0	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.4**	<5.0	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.73**	<5.0	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	TRANS-1,4-DICHLORO-2-BUTENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES, M & P	XYLENES, TOTAL
MW-1	MW-1_277.2	277.2	A Zone	10/13/2015	<5.0	**180**	<0.50	<0.50	<0.50	<0.50
MW-2	MW-2_277.2	277.2	A Zone	10/15/2015	<5.0	**53**	**0.86**	<0.50	<0.50	<0.50
MW-5	MW-5_324	324	A Zone	10/13/2015	<5.0	**65**	**1.6**	<0.50	<0.50	<0.50
MW-6	MW-6_330	330	A Zone	10/13/2015	<5.0	**130**	**0.68**	<0.50	<0.50	<0.50
MW-7	MW-7_320	320	A Zone	10/13/2015	<5.0	**23**	**0.46J**	<0.50	<0.50	<0.50
MW-8D	MW-8D_396	396	B Zone	10/16/2015	<5.0	**0.22J**	<0.50	<0.50	<0.50	<0.50
MW-8S	MW-8S_320.7	320.7	A Zone	10/15/2015	<5.0	**26**	**0.34J**	<0.50	<0.50	<0.50
MW-9	MW-9_324	324	A Zone	10/14/2015	<5.0	**22**	<0.50	<0.50	<0.50	<0.50
NH-C03-380	NH-C03-380_317	317	B Zone	10/6/2015	<5.0	**0.76**	<0.50	<0.50	<0.50	<0.50
NH-C10-280	NH-C10-280-234	234	A Zone	9/29/2015	<5.0	**45**	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340	340	B Zone	10/1/2015	<5.0	**2.9**	<0.50	<0.50	<0.50	<0.50
NH-C10-360	NH-C10-360_340-DUP-1	340	B Zone	10/1/2015	<5.0	**3.0**	<0.50	<0.50	<0.50	<0.50
NH-C12-280	NH-C12-280_231	231	A Zone	10/1/2015	<5.0	**270**	<0.50	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_313	313	A Zone	9/30/2015	<5.0	**0.24J**	<0.50	<0.50	<0.50	<0.50
NH-C12-360	NH-C12-360_343	343	B Zone	9/30/2015	<5.0	**0.54**	<0.50	<0.50	<0.50	<0.50
NH-C15-240	NH-C15-240_203	203	A Zone	10/19/2015	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C17-255	NH-C17-255_203	203	A Zone	10/2/2015	<5.0	**7.9**	<0.50	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_281	281	A Zone	10/2/2015	<5.0	**13**	<0.50	<0.50	<0.50	<0.50
NH-C17-339	NH-C17-339_313	313	B Zone	10/2/2015	<5.0	**4.0**	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240	240	A Zone	10/16/2015	<5.0	**0.62**	<0.50	<0.50	<0.50	<0.50
NH-C18-270	NH-C18-270_240-Dup5	240	A Zone	10/16/2015	<5.0	**0.50J**	<0.50	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	1,4-DIOXANE	HEXAVALENT CHROMIUM	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROPANE
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	**0.65**	**3.8J-**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	**0.88**	**5.1J-**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.23J**	**0.31J**	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	**0.32**	**4.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	**0.36**	**4.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	**0.63**	**3.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	**2.7**	**2.0**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.26J**	**0.42J**	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	**1.7**	**1.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	**2.3**	**0.64**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.54**	**0.29J**	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<0.070	**3.3J-**	<0.50	<0.50	<0.50	<0.50	**0.38J**	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<0.070	**3.8J-**	<0.50	<0.50	<0.50	<0.50	**0.39J**	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	**2.0**	**6.1J-**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.42J**	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	**2.2**	**13J-**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.40J**	**0.50**	<0.50	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	**0.21**	**24**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	**3.0**	**3.0**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.33J**	<0.50	<0.50	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	**5.7**	**2.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.23J**	<0.50	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	**11**	**45**	<0.50	<0.50	<0.50	<0.50	**0.36J**	**0.32J**	**0.90**	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	**3.6J**	**4.6**	<0.50	**0.75**	<0.50	**1.0**	<0.50	**11**	**3.7**	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2,2-DICHLOROPROPANE
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.22J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.23J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**7.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	**0.88**	<0.50	<0.50	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	2-BUTANONE	2-CHLOROTOLUENE	2-HEXANONE	2-PROPENENITRILE, 2-METHYL-	4-CHLOROTOLUENE	4-METHYL-2-PENTANONE	ACETONE	ACRYLONITRILE	ALLYL CHLORIDE	BENZENE	BROMOBENZENE	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10U	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	**0.49J**
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	BROMOFORM	BROMOMETHANE	BUTYLBENZENE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	Dibromochloromethane
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**13**	<0.50	**0.62**	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**10**	<0.50	**1.2**	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8**	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8**	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.8**	<0.50	**0.34J**	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.3**	<0.50	**1.7**	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	<0.50	<0.50	<0.50	**3.1**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.67**	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.45J**	<0.50	**4.2**	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0U	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0U	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.3**	<0.50	**0.83**	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.3**	<0.50	**2.8**	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.6**	<0.50UJ	<0.50	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.42J**	<0.50	**2.9**	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.1	<0.50	**0.82**	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	**0.32J**	<0.50	<0.50	**3.1**	<0.50	**1.6**	<0.50	**0.23J**
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.2**	<0.50	**5.2**	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	DIETHYL ETHER	ETHANOL	ETHYL METHACRYLATE	ETHYLBENZENE	HEXACHLOROBUTADIENE	IODOMETHANE	ISOPROPYLBENZENE	METHYL METHACRYLATE	METHYL TERT-BUTYL ETHER	METHYLENE CHLORIDE
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	<0.50	**1.3**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	<0.50	**2.8**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	<0.50	**0.36J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	<0.50	**2.2**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	<0.50	**1.1**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	<0.50	**2.6**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	<0.50	**3.1**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	<0.50	**1.3**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	<0.50	**0.30J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	<0.50	**0.39J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	<0.50	**24**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	N-PROPYLBENZENE	NAPHTHALENE	O-XYLENE	P-ISOPROPYLTOLUENE	SEC-BUTYLBENZENE	STYRENE	TERT-BUTYLBENZENE	TETRACHLOROETHENE	TETRAHYDROFURAN	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.29J**	<5.0	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.51**	<5.0	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.60**	<5.0	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.8**	<5.0	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.1**	<5.0	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	<5.0	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	<5.0	<0.50	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.74**	<5.0	<0.50	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.24J**	<5.0	<0.50	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.2**	<5.0	<0.50	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**11**	<5.0	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**140**	<5.0	<0.50	**0.28J**	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	TRANS-1,4-DICHLORO-2-BUTENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES, M & P	XYLENES, TOTAL
NH-C18-365	NH-C18-365_308	308	A Zone	10/12/2015	<5.0	**10**	<0.50	<0.50	<0.50	<0.50
NH-C18-365	NH-C18-365_348	348	B Zone	10/12/2015	<5.0	**22**	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263	263	A Zone	10/9/2015	<5.0	**5.0**	<0.50	<0.50	<0.50	<0.50
NH-C19-290	NH-C19-290_263-DUP-4	263	A Zone	10/9/2015	<5.0	**5.0**	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_303	303	A Zone	10/9/2015	<5.0	**7.2**	<0.50	<0.50	<0.50	<0.50
NH-C19-360	NH-C19-360_333	333	A Zone	10/9/2015	<5.0	**17**	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_322	322	A Zone	10/27/2015	<5.0	**2.8**	<0.50	<0.50	<0.50	<0.50
NH-C20-380	NH-C20-380_361	361	B Zone	10/26/2015	<5.0	**26**	**0.26J**	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229	229	A Zone	10/8/2015	<5.0	**79**	<0.50	<0.50	<0.50	<0.50
NH-C21-260	NH-C21-260_229-DUP-3	229	A Zone	10/8/2015	<5.0	**77**	<0.50	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_283	283	A Zone	10/8/2015	<5.0	**75**	**0.34J**	<0.50	<0.50	<0.50
NH-C21-340	NH-C21-340_325	325	B Zone	10/8/2015	<5.0	**82**	**0.37J**	<0.50	<0.50	<0.50
NH-C26-310	NH-C26-310-249	249	A Zone	9/29/2015	<5.0	**6.2**	<0.50	<0.50	<0.50	<0.50
NH-C26-385	NH-C26-385_360	360	B Zone	10/7/2015	<5.0	**8.6**	<0.50	<0.50	<0.50	<0.50
NH-C27-290	NH-C27-290_259	259	A Zone	10/16/2015	<5.0	**70**	<0.50	<0.50	<0.50	<0.50
NH-C28-290	NH-C28-290_240	240	A Zone	10/16/2015	<5.0	**47**	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z1B	300	A Zone	12/16/2015	<5.0	**290**	**4.5**	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	1,4-DIOXANE	HEXAVALENT CHROMIUM	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROPANE
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<0.070	**2.7J-**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<0.070	**3.0J-**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	**0.25**	**2.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.22J**	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	**0.30**	**2.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<0.070	**3.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	**11**	**130**	<0.50	**0.70**	<0.50	<0.50	<0.50	**0.80**	**6.3**	<0.50	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	**11**	**140**	<0.50	**0.77**	<0.50	<0.50	<0.50	**0.86**	**7.5**	<0.50	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	**1.5**	**59J-**	<0.50	**0.34J**	<0.50	<0.50	<0.50	**0.71**	**3.1**	<0.50	<0.50	<0.50
NHE-4	NHE-4	-	A Zone	10/5/2015	**1.8**	**6.8J-**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	**1.0**	**3.8J-**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.33J**	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	**1.4**	**1.9**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.65**	**0.49J**	<0.50	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	**1.4**	**1.9**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.64**	**0.59**	<0.50	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	**1.7**	**1.1J-**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.34J**	**1.3**	<0.50	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	**0.36**	**3.3**	<0.50	**0.66**	<0.50	<0.50	<0.50	<0.50	**6.9**	<0.50	<0.50	<0.50
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	**1.5**	**5.3**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.32J**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	**0.22**	**2.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	**0.25**	**4.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	**2.6**	**1.2**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.25J**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	**4.2**	**3.1**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.37J**	**0.81**	<0.50	<0.50	<0.50

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Well	Sample ID	Sample Depth	Zone	Sample Date	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2,2-DICHLOROPROPANE
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.25J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.25J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-4	NHE-4	-	A Zone	10/5/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.71**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	<0.50	<0.50	<2.0	<0.50	<0.50	**0.21J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	2-BUTANONE	2-CHLOROTOLUENE	2-HEXANONE	2-PROPENENITRILE, 2-METHYL-	4-CHLOROTOLUENE	4-METHYL-2-PENTANONE	ACETONE	ACRYLONITRILE	ALLYL CHLORIDE	BENZENE	BROMOBENZENE	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	**0.60**	<0.50	<0.50	**0.87**
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-4	NHE-4	-	A Zone	10/5/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	**0.62**
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	<10	<0.50	<5.0	<5.0	<0.50	<5.0	<10	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50

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ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	BROMOFORM	BROMOMETHANE	BUTYLBENZENE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	Dibromochloromethane
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.7**	<0.50	<0.50	<0.50	**0.22J**
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.0**	<0.50	**0.24J**	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.40J**	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	<0.50	<0.50	<0.50	**0.38J**	**0.56**	<0.50	<0.50	**7.5**	<0.50	**2.6**	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	**0.65**	<0.50	<0.50	**7.9**	<0.50	**2.8**	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.92**	<0.50	**1.8**	<0.50	<0.50
NHE-4	NHE-4	-	A Zone	10/5/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.3**	<0.50	**0.89**	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.68**	<0.50	**1.6**	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.40J**	<0.50	**0.77**	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.42J**	<0.50	**0.85**	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	<0.50	<0.50	<0.50	<0.50	**0.98**	<0.50	<0.50	**0.63**	<0.50	**0.33J**	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**9.5**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.7**	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.57**	<0.50	**0.34J**	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.91**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	**0.38J**	<0.50	<0.50	**0.46J**	<0.50	**0.74**	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.47J**	<0.50	**1.6**	<0.50	<0.50

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ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	DIETHYL ETHER	ETHANOL	ETHYL METHACRYLATE	ETHYLBENZENE	HEXACHLOROBUTADIENE	IODOMETHANE	ISOPROPYLBENZENE	METHYL METHACRYLATE	METHYL TERT-BUTYL ETHER	METHYLENE CHLORIDE
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	<0.50	**2.2**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	**4.3**	<0.50
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	<0.50	**1.2**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	<0.50	**0.47J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	<0.50	**0.72**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	<0.50	**0.27J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.35
NHE-4	NHE-4	-	A Zone	10/5/2015	<0.50	**0.58**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	<0.50	**1.3**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	<0.50	**0.71**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	<0.50	**0.81**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	<0.50	**0.27J**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	<0.50	<0.50	**0.21J**	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	<0.50	**0.61**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	<0.50	<0.50	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	<0.50	**0.91**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	<0.50	**0.94**	<0.50	<50	<2.0	<0.50	<0.50	<2.0	<0.50	<5.0	<0.50	<0.50

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ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	N-PROPYLBENZENE	NAPHTHALENE	O-XYLENE	P-ISOPROPYLTOLUENE	SEC-BUTYLBENZENE	STYRENE	TERT-BUTYLBENZENE	TETRACHLOROETHENE	TETRAHYDROFURAN	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**170**	<5.0	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.65J**	<5.0	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**9.8**	<5.0	<0.50	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**13**	<5.0	<0.50	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.6**	<5.0	<0.50	<0.50	<0.50
NHE-4	NHE-4	-	A Zone	10/5/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.2**	<5.0	<0.50	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.9**	<5.0	<0.50	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.3**	<5.0	<0.50	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.7**	<5.0	<0.50	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.9**	<5.0	<0.50	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.4**	<5.0	<0.50	<0.50	<0.50
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.25J**	<5.0	<0.50	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.98**	<5.0	<0.50	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	<5.0	<0.50	<0.50	<0.50

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ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Well	Sample ID	Sample Depth	Zone	Sample Date	TRANS-1,4-DICHLORO-2-BUTENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES, M & P	XYLENES, TOTAL
NH-MW-06	NH-MW-06_Z2	580	Below B Zone	10/13/2015	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-06	NH-MW-06_Z3	810	Below B Zone	10/13/2015	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z1A	280	A Zone	10/14/2015	<5.0	**16**	**0.30J**	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z2	450	B Zone	10/14/2015	<5.0	**15**	<0.50	<0.50	<0.50	<0.50
NH-MW-11	NH-MW-11_Z3	710	Below B Zone	10/14/2015	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2	-	A Zone	10/19/2015	<5.0	**150**	<0.50	<0.50	<0.50	<0.50
NHE-2	NHE-2-Dup6	-	A Zone	10/19/2015	<5.0	**160**	<0.50	<0.50	<0.50	<0.50
NHE-3	NHE-3	-	A Zone	11/11/2015	<5.0	**56**	<0.50	<0.50	<0.50	<0.50
NHE-4	NHE-4	-	A Zone	10/5/2015	<5.0	**16**	<0.50	<0.50	<0.50	<0.50
NHE-6	NHE-6	-	A Zone	10/5/2015	<5.0	**13**	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7	-	A Zone	10/7/2015	<5.0	**5.7**	<0.50	<0.50	<0.50	<0.50
NHE-7	NHE-7-DUP-2	-	A Zone	10/7/2015	<5.0	**6.1**	<0.50	<0.50	<0.50	<0.50
NHE-8	NHE-8	-	A Zone	10/5/2015	<5.0	**49**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-2S	PZ-NHE-2S_253	253	A Zone	10/19/2015	<5.0	**13**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-2D	PZ-NHE-2D_318	318	A Zone	10/19/2015	<5.0	**4.8**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4D	PZ-NHE-4D_293	293	A Zone	10/6/2015	<5.0	**0.23J**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-4S	PZ-NHE-4S_243	243	A Zone	10/6/2015	<5.0	**1.3**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7D	PZ-NHE-7D_288	288	A Zone	10/7/2015	<5.0	**1.3**	<0.50	<0.50	<0.50	<0.50
PZ-NHE-7S	PZ-NHE-7S_235	235	A Zone	10/7/2015	<5.0	**1.9**	<0.50	<0.50	<0.50	<0.50

ATTACHMENT A

ANALYTICAL RESULTS - OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Results reported in micrograms per liter

Abbreviations
< = Less than

Qualifiers
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

amec foster wheeler

ATTACHMENT B

Data Validation Narrative

ATTACHMENT B

DATA VALIDATION SUMMARY REPORT – OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

1.0 INTRODUCTION

The equivalent of a USPEA Level II data review was completed on groundwater samples collected between September and December 2015 as part of the 2015 Sampling Event of the North Hollywood Operable Unit, in North Hollywood, California. A summary of samples included in this review and the laboratory report number are presented in Table B1.

The Level II data review was performed in general accordance with the SAP (AMEC, 2012), the USEPA *National Functional Guidelines for Inorganic Methods Review* (USEPA, 2014) and the USEPA *National Functional Guidelines for Organic Methods Data Review* (USEPA, 2014). During the Level II data validation the following data quality indicators were reviewed.

- Case Narrative Review
- Sample Collection and Holding Times
- QC Blanks
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Surrogate Spikes
- Field and Laboratory Duplicates
- Project Reporting Limits
- Electronic Data Verification

Data quality control reviews are completed using laboratory QC summary forms. Data qualifications are completed if necessary in accordance with the guidelines using the following qualifiers, as applicable:

- U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. (A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.)

- UJ = The analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.
- R = The reported value is rejected and is considered to be unusable

The following data validation reason codes were applied to one or more sample results:

- EB = Equipment Blank Contamination
- HTA = Holding Time Exceedance
- LCSDL = Low Laboratory Control Sample Duplicate Recovery
- LCSH = High Laboratory Control Sample Recovery
- LCSL = Low Laboratory Control Sample Recovery
- LCSP = High Laboratory Control Sample Relative Percent Difference
- MSDH = High Matrix Spike Duplicate Recovery
- MSDL = Low Matrix Spike Duplicate Recovery
- MSDP = High Matrix Spike Duplicate Relative Percent Difference
- MSH = High Matrix Spike Recovery
- MSL = Low Matrix Spike Recovery
- TB = Trip Blank Contamination

2.0 DATA VALIDATION ACTIONS AND OBSERVATIONS

The Level II validation qualification actions for this data set and associated validation reason codes are presented in Table B3. Sample results that are not included on Table B3 were interpreted to be usable as reported by the laboratory. Overall, the findings of the Level II validation indicate that the data are usable as reported, with additional validation qualifiers as applied.

TABLE B1

SAMPLE AND ANALYTICAL SUMMARY - OCTOBER 2015
DATA VALIDATION SUMMARY REPORT
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Sample	Sample Date	Laboratory Sample ID	Sample Type	Analyses
NH-C10-280-234	9/29/2015	15-09-2259-1	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-092915-PUMP1	9/29/2015	15-09-2259-2	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C26-310-249	9/29/2015	15-09-2259-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-2-092915-PUMP2	9/29/2015	15-09-2259-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
FB-092915	9/29/2015	15-09-2259-5	Field Blank	CrVI, 1,4-Dioxane, and VOCs
TB-092915	9/29/2015	15-09-2259-6	Trip Blank	VOCs
NH-C12-360_343	9/30/2015	15-09-2352-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB093015	9/30/2015	15-09-2352-2	Trip Blank	VOCs
NH-C12-360_313	9/30/2015	15-09-2352-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-0930015-Pump2	9/30/2015	15-09-2352-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C12-280_231	10/1/2015	15-10-0109-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-100115	10/1/2015	15-10-0109-2	Trip Blank	VOCs
EB-1-10015-Pump 2	10/1/2015	15-10-0109-3	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C10-360_340	10/1/2015	15-10-0109-4	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-C10-360_340-DUP-1	10/1/2015	15-10-0109-5	Field Duplicate	CrVI, 1,4-Dioxane, and VOCs
EB-2-100115-Pump 1	10/1/2015	15-10-0109-6	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NHC17-339_313	10/2/2015	15-10-0211-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-100215	10/2/2015	15-10-0211-2	Trip Blank	VOCs
NH-C17-339_281	10/2/2015	15-10-0211-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-100215-Pump4	10/2/2015	15-10-0211-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C17-255_203	10/2/2015	15-10-0211-5	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-2-100215-Pump1	10/2/2015	15-10-0211-6	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NHE-6	10/5/2015	15-10-0419-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-100515	10/5/2015	15-10-0419-2	Trip Blank	VOCs
NHE-8	10/5/2015	15-10-0419-3	Primary	CrVI, 1,4-Dioxane, and VOCs
NHE-4	10/5/2015	15-10-0419-4	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-C03-380_317	10/6/2015	15-10-0418-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB_100615	10/6/2015	15-10-0418-2	Trip Blank	VOCs
PZ-NHE-4D_293	10/6/2015	15-10-0418-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-100615-Pump 1	10/6/2015	15-10-0418-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
EB-1-100615-Pump 4	10/6/2015	15-10-0418-5	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
PZNHE-4S_243	10/6/2015	15-10-0418-6	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-3-100615-Pump 3	10/6/2015	15-10-0418-7	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
PZ-HNE-7D_288	10/7/2015	15-10-0556-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-100715	10/7/2015	15-10-0556-2	Trip Blank	VOCs
PZ-NHE-7S_235	10/7/2015	15-10-0556-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-100715-Pump2	10/7/2015	15-10-0556-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
EB-2-100715-Pump4	10/7/2015	15-10-0556-5	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NHE-7	10/7/2015	15-10-0556-6	Primary	CrVI, 1,4-Dioxane, and VOCs
NHE-7-DUP-2	10/7/2015	15-10-0556-7	Field Duplicate	CrVI, 1,4-Dioxane, and VOCs
NH-C26-385_360	10/7/2015	15-10-0556-8	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-3-100715-Pump1	10/7/2015	15-10-0556-9	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs

TABLE B1

SAMPLE AND ANALYTICAL SUMMARY - OCTOBER 2015
DATA VALIDATION SUMMARY REPORT
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Sample	Sample Date	Laboratory Sample ID	Sample Type	Analyses
NH-C21-260_229	10/8/2015	15-10-0796-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-100815	10/8/2015	15-10-0796-2	Trip Blank	VOCs
NH-C21-260_229-DUP-3	10/8/2015	15-10-0796-3	Field Duplicate	CrVI, 1,4-Dioxane, and VOCs
EB-1-100815-Pump 1	10/8/2015	15-10-0796-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C21-340_325	10/8/2015	15-10-0796-5	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-C21-340_283	10/8/2015	15-10-0796-6	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-2-100815-Pump2	10/8/2015	15-10-0796-7	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C19-360_330	10/9/2015	15-10-0795-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-100915	10/9/2015	15-10-0795-2	Trip Blank	VOCs
NH-C19-360_303	10/9/2015	15-10-0795-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-100915-Pump4	10/9/2015	15-10-0795-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C19-290_263	10/9/2015	15-10-0795-5	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-C19-290_263-DUP-4	10/9/2015	15-10-0795-6	Field Duplicate	CrVI, 1,4-Dioxane, and VOCs
EB-2-100915-Pump1	10/9/2015	15-10-0795-7	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C18-365_348	10/12/2015	15-10-0945-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-101215	10/12/2015	15-10-0945-2	Trip Blank	VOCs
NH-C18-365_308	10/12/2015	15-10-0945-3	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-1-101215-Pump 4	10/12/2015	15-10-0945-4	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
TB-2-101315	10/13/2015	15-10-0981-1	Trip Blank	VOCs
MW-1_277.2	10/13/2015	15-10-0981-2	Primary	CrVI, 1,4-Dioxane, and VOCs
MW-7_320	10/13/2015	15-10-0981-3	Primary	CrVI, 1,4-Dioxane, and VOCs
MW-6_330	10/13/2015	15-10-0981-4	Primary	CrVI, 1,4-Dioxane, and VOCs
MW-5_324	10/13/2015	15-10-0981-5	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-MW-06_Z3	10/13/2015	15-10-1064-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-101315	10/13/2015	15-10-1064-2	Trip Blank	VOCs
NH-MW-06_Z2	10/13/2015	15-10-1064-3	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-2-101415	10/14/2015	15-10-1065-1	Trip Blank	VOCs
MW-9_324	10/14/2015	15-10-1065-2	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-MW-11_Z1A	10/14/2015	15-10-1065-3	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-MW-11_Z2	10/14/2015	15-10-1065-4	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-MW-11_Z3	10/14/2015	15-10-1065-5	Primary	CrVI, 1,4-Dioxane, and VOCs
MW-8S_320.7	10/15/2015	15-10-1182-1	Primary	CrVI, 1,4-Dioxane, and VOCs
MW-2_277.2	10/15/2015	15-10-1182-2	Primary	CrVI, 1,4-Dioxane, and VOCs
MW-8D_396	10/16/2015	15-10-1286-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-2-101615	10/16/2015	15-10-1286-2	Trip Blank	VOCs
NH-C27-290_259	10/16/2015	15-10-1287-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-1-101615	10/16/2015	15-10-1287-2	Trip Blank	VOCs
EB-1-101615-Pump2	10/16/2015	15-10-1287-3	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C28-290_240	10/16/2015	15-10-1287-4	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-2-101615-Pump6	10/16/2015	15-10-1287-5	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C18-270_240	10/16/2015	15-10-1287-6	Primary	CrVI, 1,4-Dioxane, and VOCs
NH-C18-270_240-DUP5	10/16/2015	15-10-1287-7	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-3-101615-Pump1	10/16/2015	15-10-1287-8	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs

TABLE B1

SAMPLE AND ANALYTICAL SUMMARY - OCTOBER 2015
DATA VALIDATION SUMMARY REPORT
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Sample	Sample Date	Laboratory Sample ID	Sample Type	Analyses
NH-C15-240_203	10/19/2015	15-10-1369-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-101915	10/19/2015	15-10-1369-2	Trip Blank	VOCs
EB-1-101915-Pump5	10/19/2015	15-10-1369-3	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
PZ-NHE-2D_318	10/19/2015	15-10-1369-4	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-2-101915-Pump2	10/19/2015	15-10-1369-5	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
PZ-NHE2S_253	10/19/2015	15-10-1369-6	Primary	CrVI, 1,4-Dioxane, and VOCs
EB-3-101915-Pump 1	10/19/2015	15-10-1369-7	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NHE-2	10/19/2015	15-10-1369-8	Primary	CrVI, 1,4-Dioxane, and VOCs
NHE-2-Dup6	10/19/2015	15-10-1369-9	Field Duplicate	CrVI, 1,4-Dioxane, and VOCs
NH-C20-380_361	10/26/2015	15-10-1922-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-1-102615	10/26/2015	15-10-1922-2	Trip Blank	VOCs
EB-1-102615-Pump2	10/26/2015	15-10-1922-3	Equipment Blank	CrVI, 1,4-Dioxane, and VOCs
NH-C20-380_322	10/27/2015	15-10-2028-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-1-102715	10/27/2015	15-10-2028-2	Trip Blank	VOCs
NHE-3	11/11/2015	15-11-0820-1	Primary	CrVI, 1,4-Dioxane, and VOCs
TB-1-111115	11/11/2015	15-11-0820-2	Trip Blank	VOCs
NH-MW-06_Z1B	12/16/2015	15-12-1318-1	Primary	CrVI, 1,4-Dioxane, and VOCs

Notes
CrVI = Chromium VI by USEPA Method 218.6
1,4-Dioxane = 1,4-Dioxane by USEPA Method 522
VOCs = volatile organic compounds by USEPA Method 524.2

TABLE B2

SAMPLE AND ANALYTICAL SUMMARY
FIELD DUPLICATES - 2015
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Primary Sample ID	Test Method	Anatlye	Primary Result	Units	Duplicate Sample ID	Duplicate Result	Reporting Limit	RPD
NH-C10-360_340	218.6	Hexavalent Chromium	1.4	µg/L	NH-C10-360_340-DUP-1	1.4	0.20	0.0
NH-C10-360_340	522	1,4-Dioxane	3.0	µg/L	NH-C10-360_340-DUP-1	3.0	0.070	0.0
NH-C10-360_340	524.2	Dichlorodifluoromethane	4.8	µg/L	NH-C10-360_340-DUP-1	4.7	0.50	2.1
NH-C10-360_340	524.2	trans-1,2-Dichloroethene	<0.50	µg/L	NH-C10-360_340-DUP-1	0.30 J	0.50	N/A
NH-C10-360_340	524.2	1,1-Dichloroethane	1.9	µg/L	NH-C10-360_340-DUP-1	1.9	0.50	0.0
NH-C10-360_340	524.2	cis-1,2-Dichloroethene	14	µg/L	NH-C10-360_340-DUP-1	14.0	0.50	0.0
NH-C10-360_340	524.2	Chloroform	0.27 J	µg/L	NH-C10-360_340-DUP-1	0.25 J	0.50	N/A
NH-C10-360_340	524.2	1,2-Dichloroethane	0.44 J	µg/L	NH-C10-360_340-DUP-1	0.47 J	0.50	N/A
NH-C10-360_340	524.2	Trichloroethene	2.9	µg/L	NH-C10-360_340-DUP-1	3.0	0.50	3.4
NH-C10-360_340	524.2	1,2-Dichloropropane	0.20 J	µg/L	NH-C10-360_340-DUP-1	<0.50	0.50	N/A
NH-C10-360_340	524.2	Tetrachloroethene	2.0	µg/L	NH-C10-360_340-DUP-1	2.1	0.50	4.9
NHE-7	218.6	Hexavalent Chromium	1.9	µg/L	NHE-7-DUP-2	1.9	0.20	0.0
NHE-7	522	1,4-Dioxane	1.4	µg/L	NHE-7-DUP-2	1.4	0.070	0.0
NHE-7	524.2	Dichlorodifluoromethane	0.71	µg/L	NHE-7-DUP-2	0.81	0.50	13.2
NHE-7	524.2	1,1-Dichloroethene	0.49 J	µg/L	NHE-7-DUP-2	0.59	0.50	N/A
NHE-7	524.2	1,1-Dichloroethane	0.65	µg/L	NHE-7-DUP-2	0.64	0.50	1.6
NHE-7	524.2	cis-1,2-Dichloroethene	0.77	µg/L	NHE-7-DUP-2	0.85	0.50	9.9
NHE-7	524.2	Chloroform	0.40 J	µg/L	NHE-7-DUP-2	0.42 J	0.50	N/A
NHE-7	524.2	Trichlroethene	5.7	µg/L	NHE-7-DUP-2	6.1	0.50	6.8
NHE-7	524.2	Tetrachloroethene	5.3	µg/L	NHE-7-DUP-2	5.7	0.50	7.3
NH-C21-260_229	218.6	Hexavalent Chromium	3.3	µg/L	NH-C21-260_229-DUP-3	3.3	0.20	0.0
NH-C21-260_229	524.2	Trichloroethene	79	µg/L	NH-C21-260_229-DUP-3	77	2.5	2.6
NH-C21-260_229	524.2	1,1,2-Trichloroethane	0.38 J	µg/L	NH-C21-260_229-DUP-3	0.39 J	0.50	N/A
NH-C21-260_229	524.2	Tetrachloroethene	2.8	µg/L	NH-C21-260_229-DUP-3	3.1	0.50	10.2
NH-C19-290_263	218.6	Hexavalent Chromium	4.0	µg/L	NH-C19-290_263-DUP-4	4.1	0.20	2.5
NH-C19-290_263	522	1,4-Dioxane	0.32	µg/L	NH-C19-290_263-DUP-4	0.36	0.070	11.8
NH-C19-290_263	524.2	Chloroform	8.0	µg/L	NH-C19-290_263-DUP-4	8.0	0.50	0.0
NH-C19-290_263	524.2	Trichloroethene	5.0	µg/L	NH-C19-290_263-DUP-4	5.0	0.50	0.0
NHE-2	218.6	Hexavalent Chromium	130	µg/L	NHE-2-Dup6	140	0.40	7.4
NHE-2	522	1,4-Dioxane	11	µg/L	NHE-2-Dup6	11	0.070	0.0
NHE-2	524.2	Dichlorodifluoromethane	0.47 J	µg/L	NHE-2-Dup6	0.72	0.50	N/A

TABLE B2

SAMPLE AND ANALYTICAL SUMMARY
FIELD DUPLICATES - 2015
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Primary Sample ID	Test Method	Anatlye	Primary Result	Units	Duplicate Sample ID	Duplicate Result	Reporting Limit	RPD
NHE-2	524.2	1,1-Dichlorothene	6.3	µg/L	NHE-2-Dup6	7.5	0.50	17.4
NHE-2	524.2	Carbon Disulfide	0.38 J	µg/L	NHE-2-Dup6	<0.50	0.50	N/A
NHE-2	524.2	1,1-Dichloroethane	0.80	µg/L	NHE-2-Dup6	0.9	0.50	7.2
NHE-2	524.2	cis,1-2,Dichloroethene	2.6	µg/L	NHE-2-Dup6	2.8	0.50	7.4
NHE-2	524.2	Chloroform	7.5	µg/L	NHE-2-Dup6	7.9	0.50	5.2
NHE-2	524.2	1,1,1-Trichloroethane	0.70	µg/L	NHE-2-Dup6	0.77	0.50	9.5
NHE-2	524.2	Carbon Tetrachloride	0.56	µg/L	NHE-2-Dup6	0.65	0.50	14.9
NHE-2	524.2	1,2-Dichloroethane	0.25 J	µg/L	NHE-2-Dup6	0.25 J	0.50	N/A
NHE-2	524.2	Trichloroethene	150	µg/L	NHE-2-Dup6	160	5.0	6.5
NHE-2	524.2	Tetrachloroethene	9.8	µg/L	NHE-2-Dup6	13	0.50	28.1

Notes
Bold RPDs indicate results that are outside of the control limit of <30% for groundwater samples.
RPD = relative percent difference
< = analyte was not detected at or above the reporting limit indicated.
µg/l = microgram per liter
J = estimated value
N/A = not applicable

TABLE B3

VALIDATION ACTIONS SUMMARY - OCTOBER 2015
DATA VALIDATION SUMMARY REPORT
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Sample	Sample Date	Lab Sample ID	Test Method	Analyte	Result	Units	Qualifier	Reason Code
NH-C10-280-234	9/29/2015	15-09-2259-1	218.6	Chromium, Hexavalent	54	µg/L	J+	MSH,MSDH
NH-C10-280-234	9/29/2015	15-09-2259-1	522	1,4-Dioxane	6.7	µg/L	J	MSL,MSDL
NH-C10-280-234	9/29/2015	15-09-2259-1	524.2	Chloromethane	<0.50	µg/L	UJ	LCSL, MSL,MSDL
NH-C10-280-234	9/29/2015	15-09-2259-1	524.2	Tetrahydrofuran	<5.0	µg/L	UJ	MSL,MSDL
NH-C10-280-234	9/29/2015	15-09-2259-1	524.2	Ethyl Methacrylate	<2.0	µg/L	UJ	MSL,MSDL
NH-C10-280-234	9/29/2015	15-09-2259-1	524.2	Ethanol	<50	µg/L	UJ	MSL,MSDL
EB-1-092915-PUMP1	9/29/2015	15-09-2259-2	524.2	Chloromethane	<0.50	µg/L	UJ	LCSL
NH-C26-310-249	9/29/2015	15-09-2259-3	524.2	Chloromethane	<0.50	µg/L	UJ	LCSL
EB-2-092915-PUMP2	9/29/2015	15-09-2259-4	524.2	Chloromethane	<0.50	µg/L	UJ	LCSL
FB-092915	9/29/2015	15-09-2259-5	524.2	Bromomethane	0.32	µg/L	J	LCSH
FB-092915	9/29/2015	15-09-2259-5	524.2	Chloromethane	<0.50	µg/L	UJ	LCSL
TB-092915	9/29/2015	15-09-2259-6	524.2	Chloromethane	<0.50	µg/L	UJ	LCSL
NH-C12-360_343	9/30/2015	15-09-2352-1	524.2	c-1,2-Dichloroethene	0.64	µg/L	J	MSH
NH-C12-360_343	9/30/2015	15-09-2352-1	524.2	Tetrahydrofuran	<5.0	µg/L	UJ	MSDL
NH-C12-280_231	10/1/2015	15-10-0109-1	524.2	Chloroform	4.7	µg/L	J	MSH
NH-C12-280_231	10/1/2015	15-10-0109-1	524.2	c-1,2-Dichloroethene	0.79	µg/L	J	MSH
EB-2-100115-Pump 1	10/1/2015	15-10-0109-6	524.2	Acetone	<10	µg/L	UJ	LCSL
EB-2-100115-Pump 1	10/1/2015	15-10-0109-6	524.2	trans-1,3-Dichloropropene	<0.50	µg/L	UJ	LCSL
NH-C17-339_281	10/2/2015	15-10-0211-3	218.6	Chromium, Hexavalent	1.6	µg/L	J-	MSL,MSDL
NH-C17-339_281	10/2/2015	15-10-0211-3	524.2	Carbon Tetrachloride	0.33	µg/L	J	MSH,MSDH
NH-C17-339_281	10/2/2015	15-10-0211-3	524.2	c-1,2-Dichloroethene	0.41	µg/L	J	MSH,MSDH
NH-C03-380_317	10/6/2015	15-10-0418-1	524.2	c-1,2-Dichloroethene	0.86	µg/L	J	LCSH,MSH,MSDH
PZ-NHE-4D_293	10/6/2015	15-10-0418-3	524.2	c-1,2-Dichloroethene	0.34	µg/L	J	LCSH
NHE-6	10/5/2015	15-10-0419-1	218.6	Chromium, Hexavalent	3.8	µg/L	J-	HTA
NHE-8	10/5/2015	15-10-0419-3	218.6	Chromium, Hexavalent	1.1	µg/L	J-	HTA
NHE-8	10/5/2015	15-10-0419-3	524.2	c-1,2-Dichloroethene	0.33	µg/L	J	MSH,MSDP
NHE-4	10/5/2015	15-10-0419-4	218.6	Chromium, Hexavalent	6.8	µg/L	J-	HTA
NH-C21-260_229	10/8/2015	15-10-0796-1	218.6	Chromium, Hexavalent	3.3	µg/L	J-	HTA
NH-C21-260_229	10/8/2015	15-10-0796-1	524.2	Chloroform	<1.0	µg/L	U	EB
NH-C21-260_229-DUP-3	10/8/2015	15-10-0796-3	218.6	Chromium, Hexavalent	3.8	µg/L	J-	HTA
NH-C21-260_229-DUP-3	10/8/2015	15-10-0796-3	524.2	Acetone	<10	µg/L	U	EB
NH-C21-260_229-DUP-3	10/8/2015	15-10-0796-3	524.2	Chloroform	<1.0	µg/L	U	EB
EB-1-100815-Pump 1	10/8/2015	15-10-0796-4	218.6	Chromium, Hexavalent	<0.20	µg/L	UJ	HTA
EB-1-100815-Pump 1	10/8/2015	15-10-0796-4	524.2	Chloroform	0.21	µg/L	J	LCSP

TABLE B3

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Sample	Sample Date	Lab Sample ID	Test Method	Analyte	Result	Units	Qualifier	Reason Code
NH-C21-340_325	10/8/2015	15-10-0796-5	218.6	Chromium, Hexavalent	13	µg/L	J-	HTA
NH-C21-340_325	10/8/2015	15-10-0796-5	524.2	Chloroform	3.3	µg/L	J	LCSP
NH-C21-340_283	10/8/2015	15-10-0796-6	218.6	Chromium, Hexavalent	6.1	µg/L	J-	HTA
NH-C21-340_283	10/8/2015	15-10-0796-6	524.2	Chloroform	4.3	µg/L	J	LCSP
EB-2-100815-Pump2	10/8/2015	15-10-0796-7	218.6	Chromium, Hexavalent	<0.20	µg/L	UJ	HTA
NH-C19-360_330	10/9/2015	15-10-0795-1	524.2	Acetone	<10	µg/L	UJ	LCSL
TB-100915	10/9/2015	15-10-0795-2	524.2	Acetone	<10	µg/L	UJ	LCSL
NH-C19-360_303	10/9/2015	15-10-0795-3	524.2	Acetone	<10	µg/L	UJ	LCSL
EB-1-100915-Pump4	10/9/2015	15-10-0795-4	524.2	Acetone	4.9	µg/L	J	LCSL
NH-C19-290_263	10/9/2015	15-10-0795-5	524.2	Acetone	<10	µg/L	UJ	LCSL
NH-C19-290_263-DUP-4	10/9/2015	15-10-0795-6	524.2	Acetone	<10	µg/L	UJ	LCSL
EB-2-100915-Pump1	10/9/2015	15-10-0795-7	524.2	Acetone	5.3	µg/L	J	LCSL
NH-C18-365_348	10/12/2015	15-10-0945-1	218.6	Chromium, Hexavalent	5.1	µg/L	J-	HTA
NH-C18-365_348	10/12/2015	15-10-0945-1	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSL
TB-101215	10/12/2015	15-10-0945-2	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSDL,LCSL
TB-101215	10/12/2015	15-10-0945-2	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSL
NH-C18-365_308	10/12/2015	15-10-0945-3	218.6	Chromium, Hexavalent	3.8	µg/L	J-	HTA
NH-C18-365_308	10/12/2015	15-10-0945-3	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSDL,LCSL
NH-C18-365_308	10/12/2015	15-10-0945-3	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSL
EB-1-101215-Pump 4	10/12/2015	15-10-0945-4	218.6	Chromium, Hexavalent	<0.20	µg/L	UJ	HTA
EB-1-101215-Pump 4	10/12/2015	15-10-0945-4	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSDL,LCSL
EB-1-101215-Pump 4	10/12/2015	15-10-0945-4	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSL
TB-2-101315	10/13/2015	15-10-0980-1	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSL
MW-1_277.2	10/13/2015	15-10-0980-2	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSL
MW-7_320	10/13/2015	15-10-0980-3	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSL
MW-6_330	10/13/2015	15-10-0980-4	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSL
MW-5_324	10/13/2015	15-10-0980-5	524.2	Carbon Disulfide	<0.50	µg/L	UJ	LCSL,MSDL
MW-5_324	10/13/2015	15-10-0980-5	524.2	Tetrahydrofuran	4.5	µg/L	J	MSDH
NH-MW-06_Z3	10/13/2015	15-10-1064-1	218.6	Chromium, Hexavalent	3.0	µg/L	J-	HTA
TB-101315	10/13/2015	15-10-1064-2	524.2	2,2-Dichloropropane	<0.50	µg/L	UJ	LCSDL,LCSL
TB-101315	10/13/2015	15-10-1064-2	524.2	Chloroethane	<0.50	µg/L	UJ	LCSDL,LCSL
TB-101315	10/13/2015	15-10-1064-2	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSDL,LCSL
NH-MW-06_Z2	10/13/2015	15-10-1064-3	218.6	Chromium, Hexavalent	2.7	µg/L	J-	HTA
NH-MW-11_Z2	10/14/2015	15-10-1065-4	524.2	Tetrachloroethene	0.65	µg/L	J	MSH

TABLE B3

VALIDATION ACTIONS SUMMARY - OCTOBER 2015
DATA VALIDATION SUMMARY REPORT
Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
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Sample	Sample Date	Lab Sample ID	Test Method	Analyte	Result	Units	Qualifier	Reason Code
NH-MW-11_Z2	10/14/2015	15-10-1065-4	524.2	c-1,2-Dichloroethene	0.24	µg/L	J	MSH
MW-8S_320.7	10/15/2015	15-10-1182-1	524.2	Chloroethane	<0.50	µg/L	UJ	LCSL
MW-8S_320.7	10/15/2015	15-10-1182-1	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSDL,LCSL
MW-2_277.2	10/15/2015	15-10-1182-2	524.2	Chloroethane	<0.50	µg/L	UJ	LCSL
MW-2_277.2	10/15/2015	15-10-1182-2	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSDL,LCSL
NH-C27-290_259	10/16/2015	15-10-1287-1	524.2	Chloroform	<1.1	µg/L	U	EB
NH-C15-240_203	10/19/2015	15-10-1369-1	218.6	Chromium, Hexavalent	<0.99	µg/L	U	EB
NHE-3	11/11/2015	15-11-0820-1	218.6	Chromium, Hexavalent	59	µg/L	J-	MSL, MSDL
NHE-3	11/11/2015	15-11-0820-1	524.2	Methylene Chloride	<0.50	µg/L	U	TB
NH-MW-06_Z1B	12/16/2015	15-12-1318-1	522	1,4-Dioxane	3.6	µg/L	J	MSDL,MSL
NH-MW-06_Z1B	12/16/2015	15-12-1318-1	524.2	Chloromethane	<0.50	µg/L	UJ	LCSDL
NH-MW-06_Z1B	12/16/2015	15-12-1318-1	524.2	t-1,4-Dichloro-2-Butene	<5.0	µg/L	UJ	LCSDL

Abbreviations
< = Less than
µg/L = Microgram per liter

Qualifiers
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was analyzed for but was not detected above the reported value. The reported quantitation limit is approximate.

Reason Codes
EB = Equipment Blank Contamination
HTA = Holding Time Exceedance
LCSDL = Low Laboratory Control Sample Duplicate Recovery
LCSH = High Laboratory Control Sample Recovery
LCSL = Low Laboratory Control Sample Recovery
LCSP = High Laboratory Control Sample Relative Percent Difference
MSDH = High Matrix Spike Duplicate Recovery
MSDL = Low Matrix Spike Duplicate Recovery
MSDP = High Matrix Spike Duplicate Relative Percent Difference
MSH = High Matrix Spike Recovery
MSL = Low Matrix Spike Recovery
TB = Trip Blank Contamination

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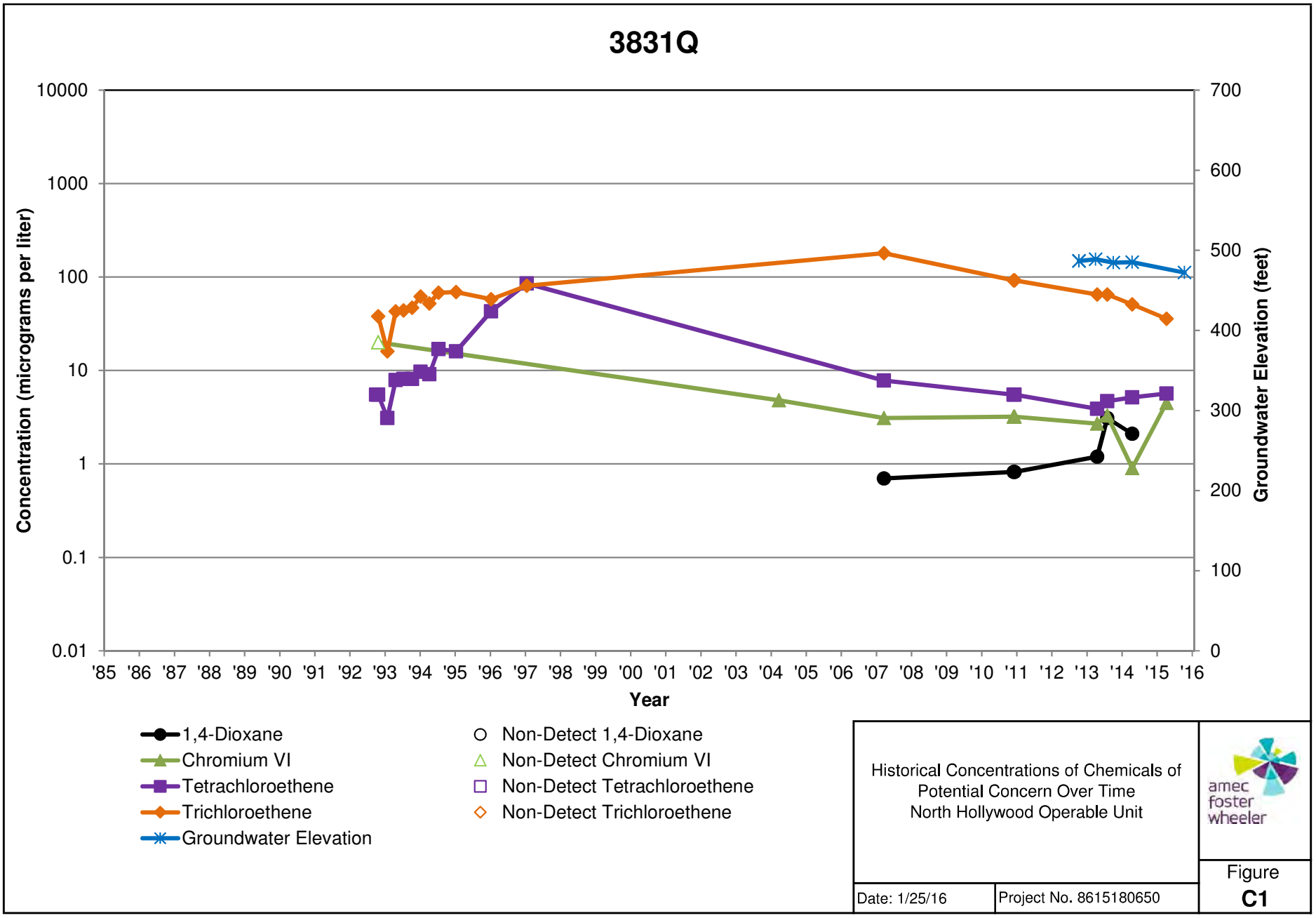
ATTACHMENT C

Time-Concentration Plots



Historical Concentrations of Chemicals of Potential Concern Over Time
North Hollywood Operable Unit

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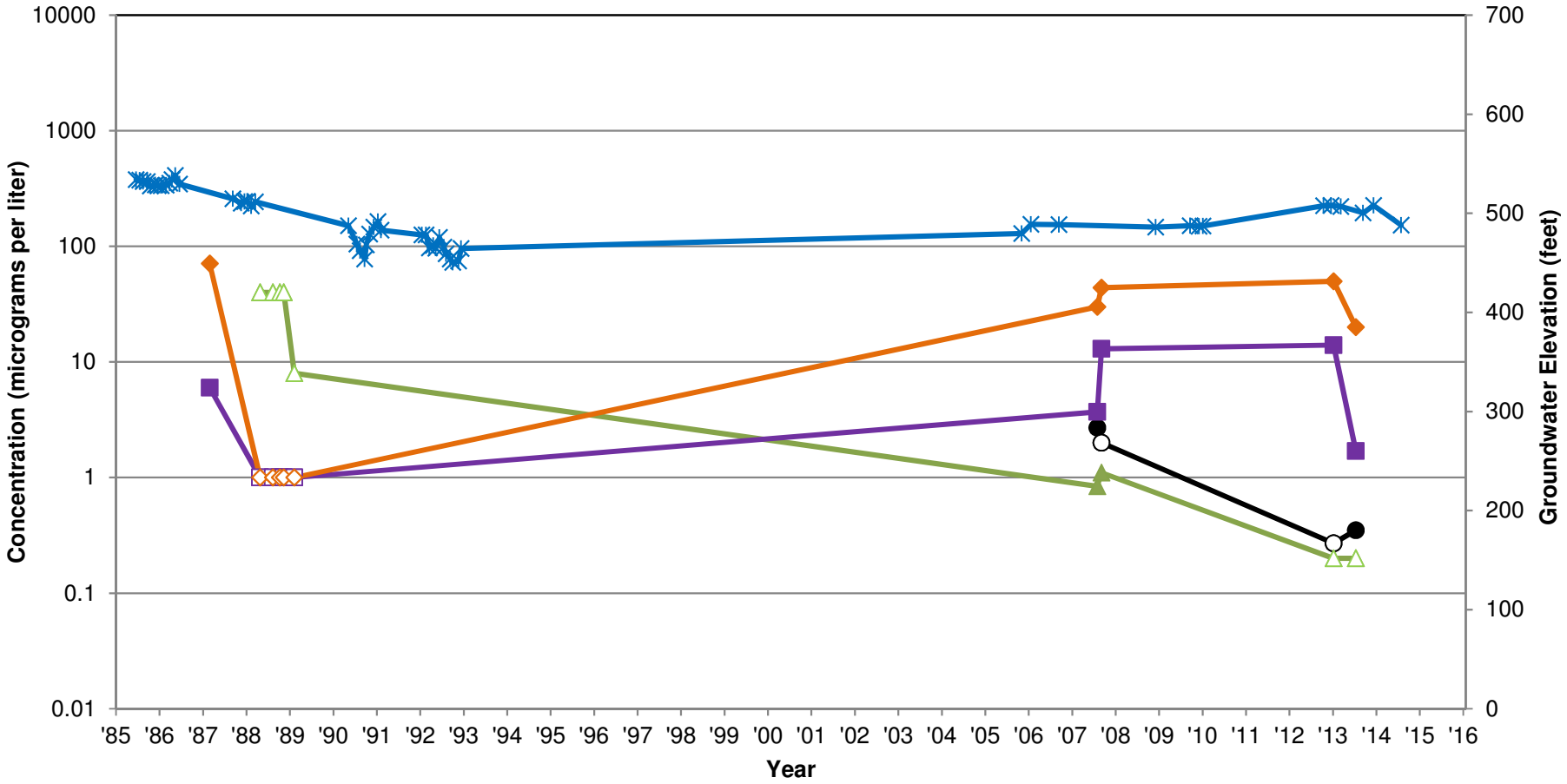
Date: 1/25/16

Project No. 8615180650

Figure
C1

4909C (A Zone)



Historical Concentrations of Chemicals of Potential Concern Over Time
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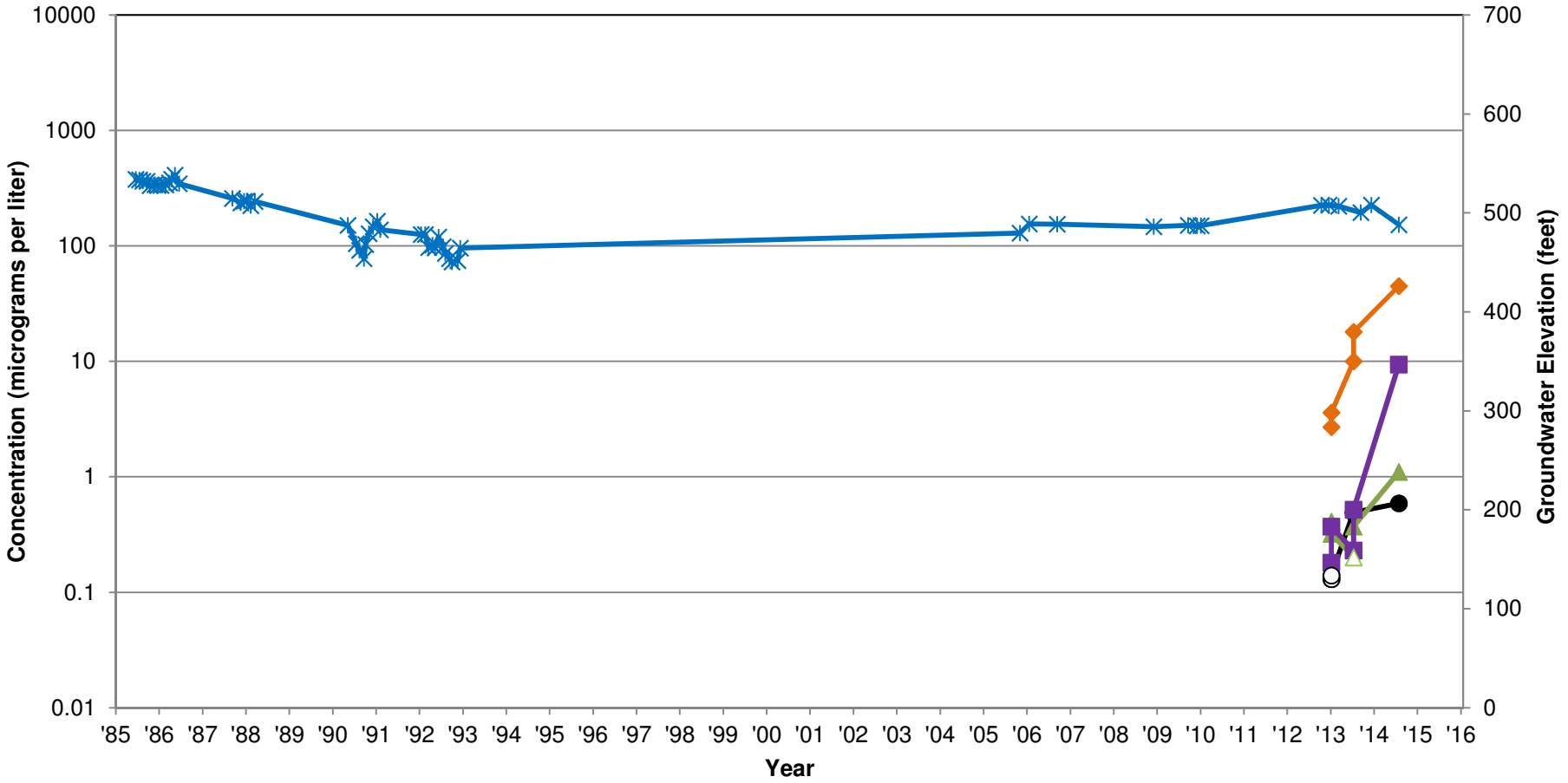
Figure
C2

4909C (B Zone)



Historical Concentrations of Chemicals of Potential Concern Over Time
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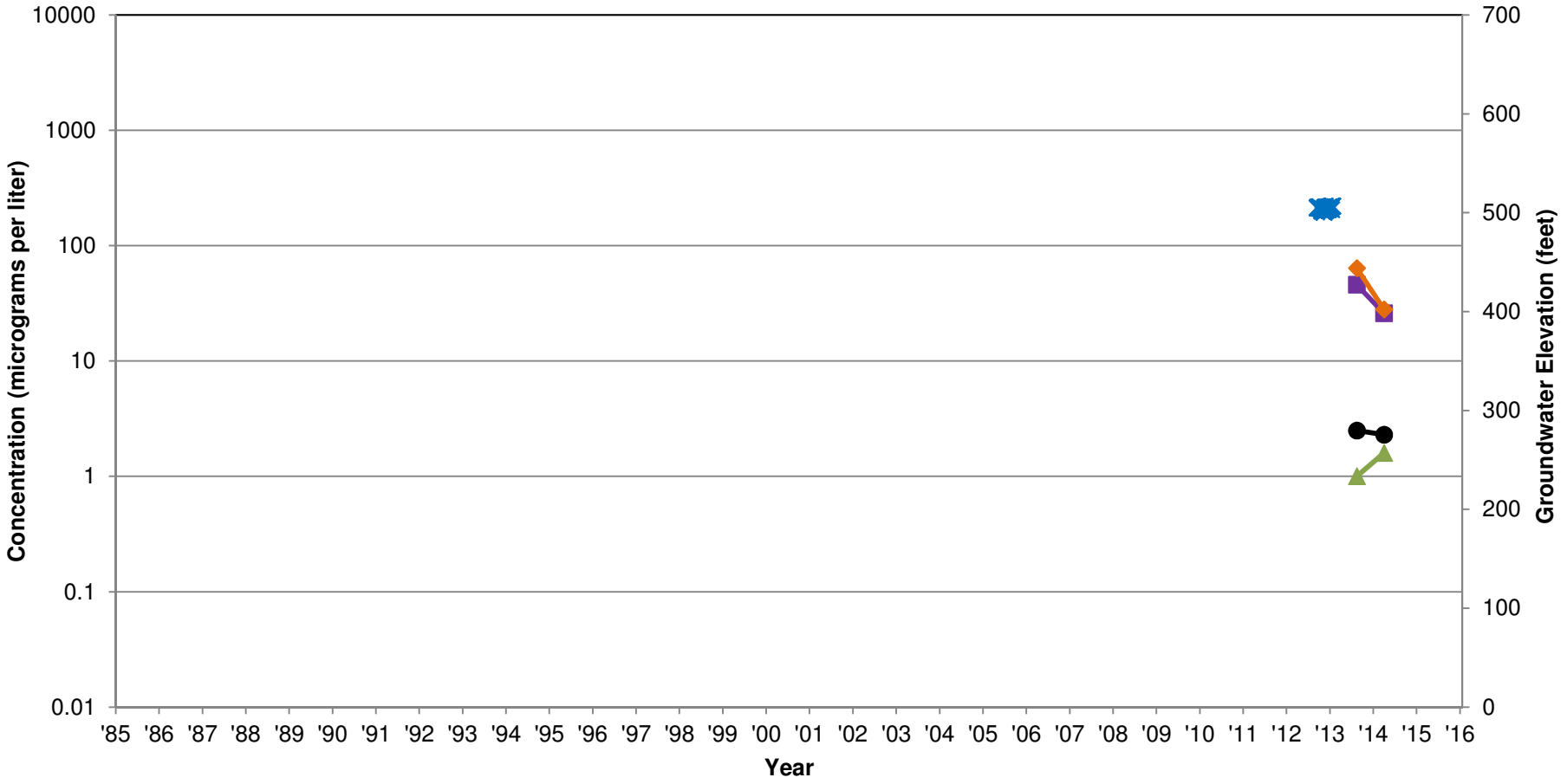
Figure
C3

4909FR



Historical Concentrations of Chemicals of Potential Concern Over Time
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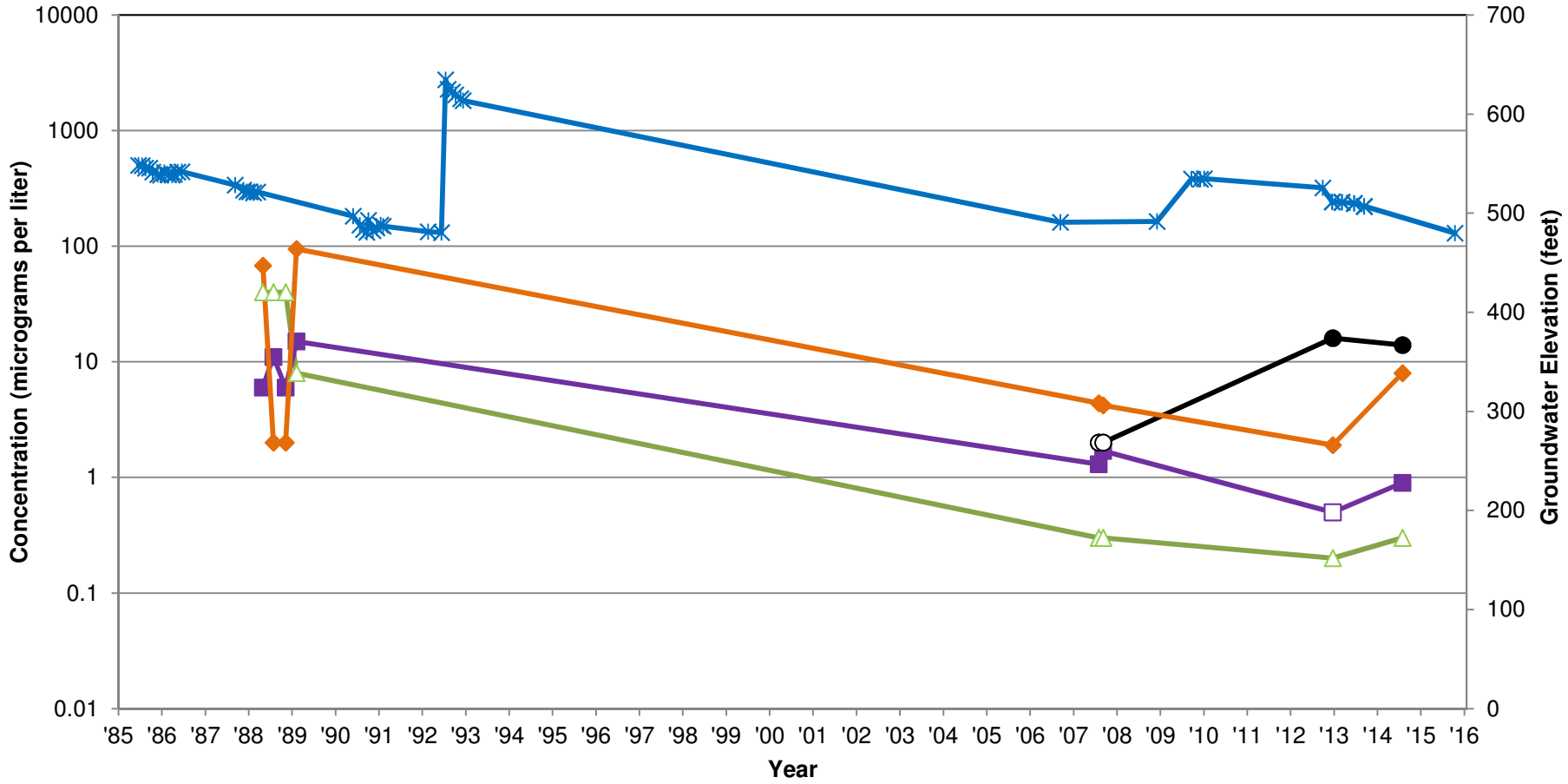
Figure
C4

4909FR (A Zone)



Historical Concentrations of Chemicals of Potential Concern Over Time
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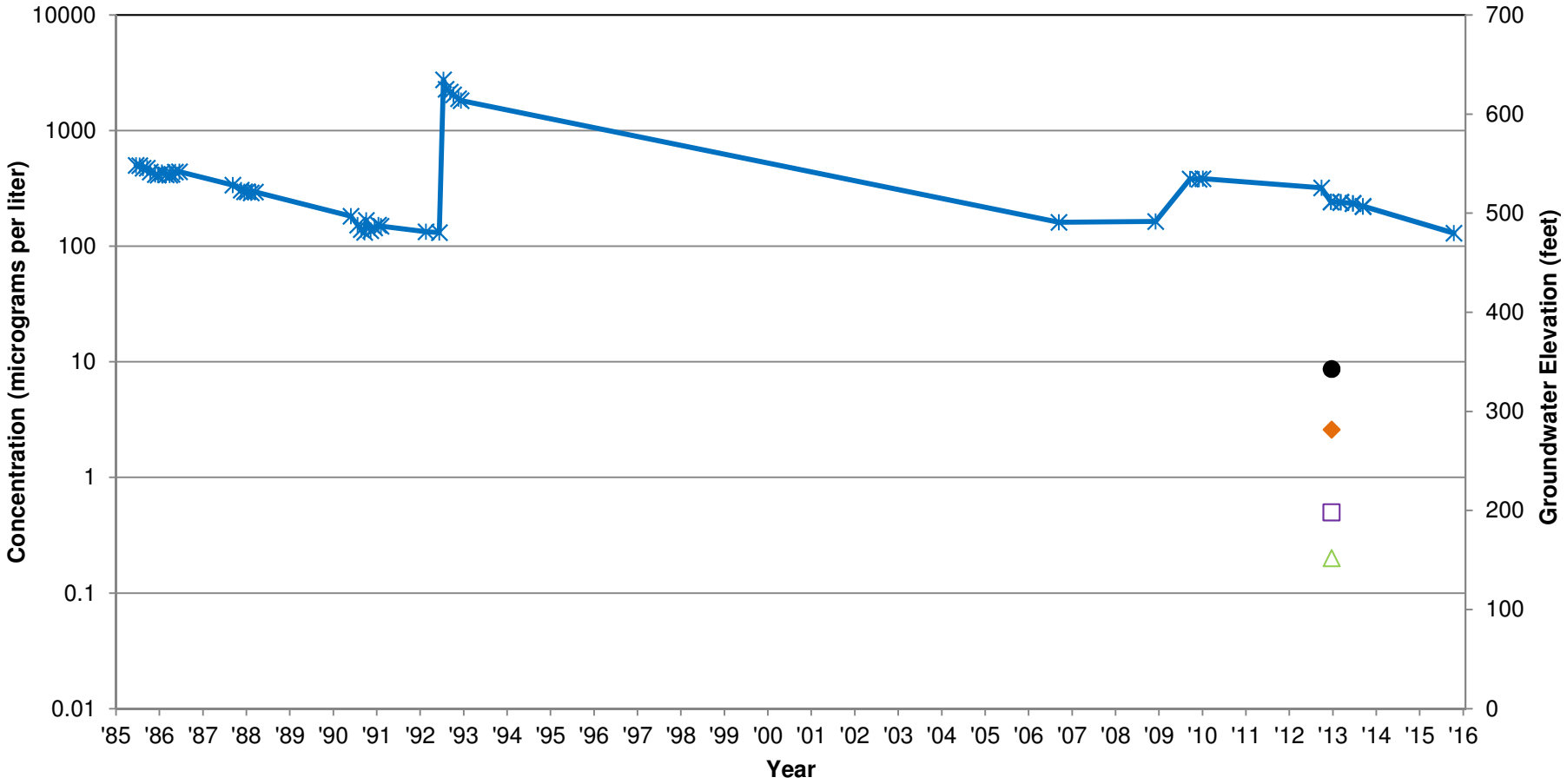
Figure
C5

4909FR (A Zone)



Historical Concentrations of Chemicals of Potential Concern Over Time
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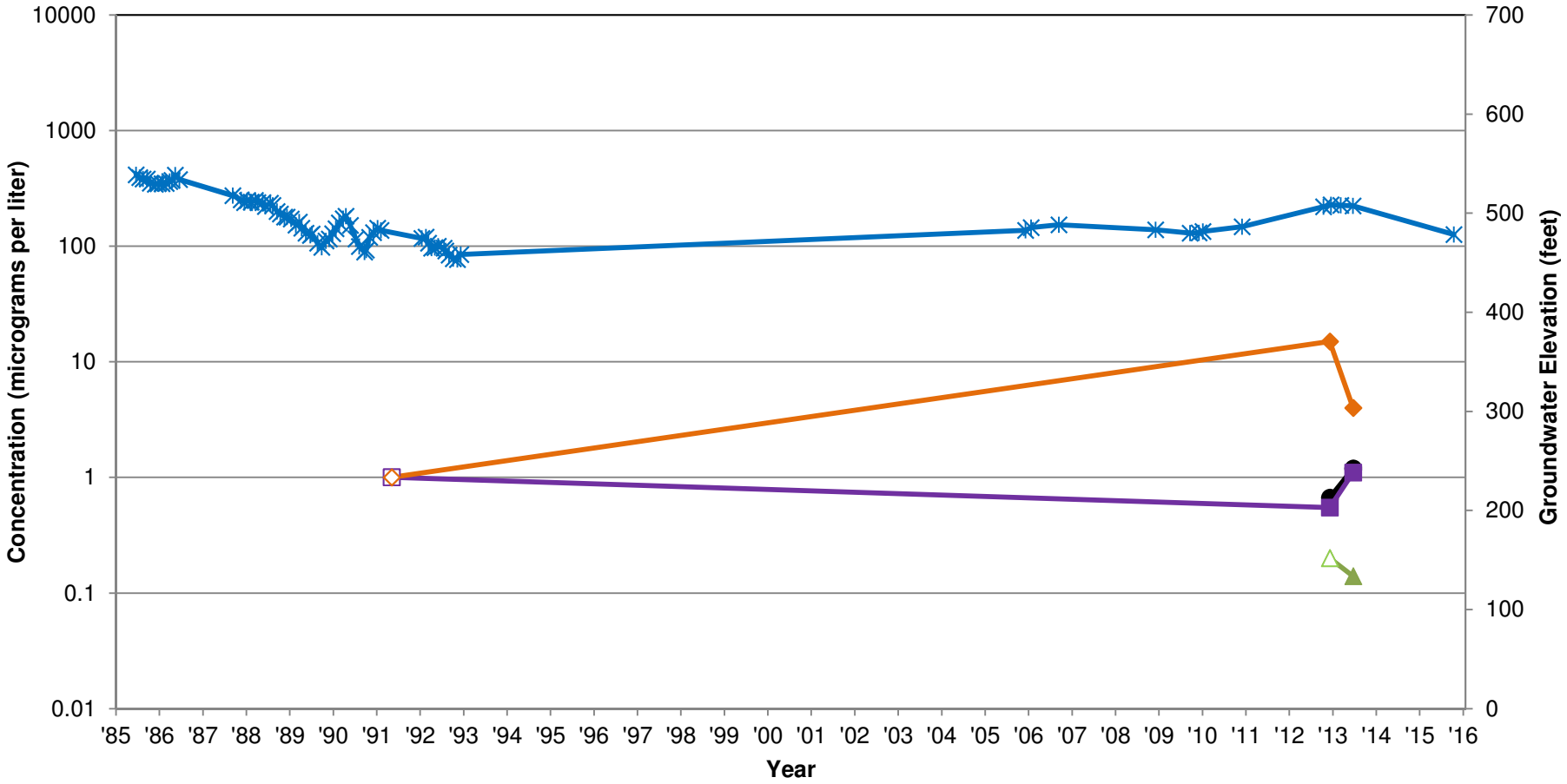
Figure
C6

4919D



Historical Concentrations of Chemicals of Potential Concern Over Time
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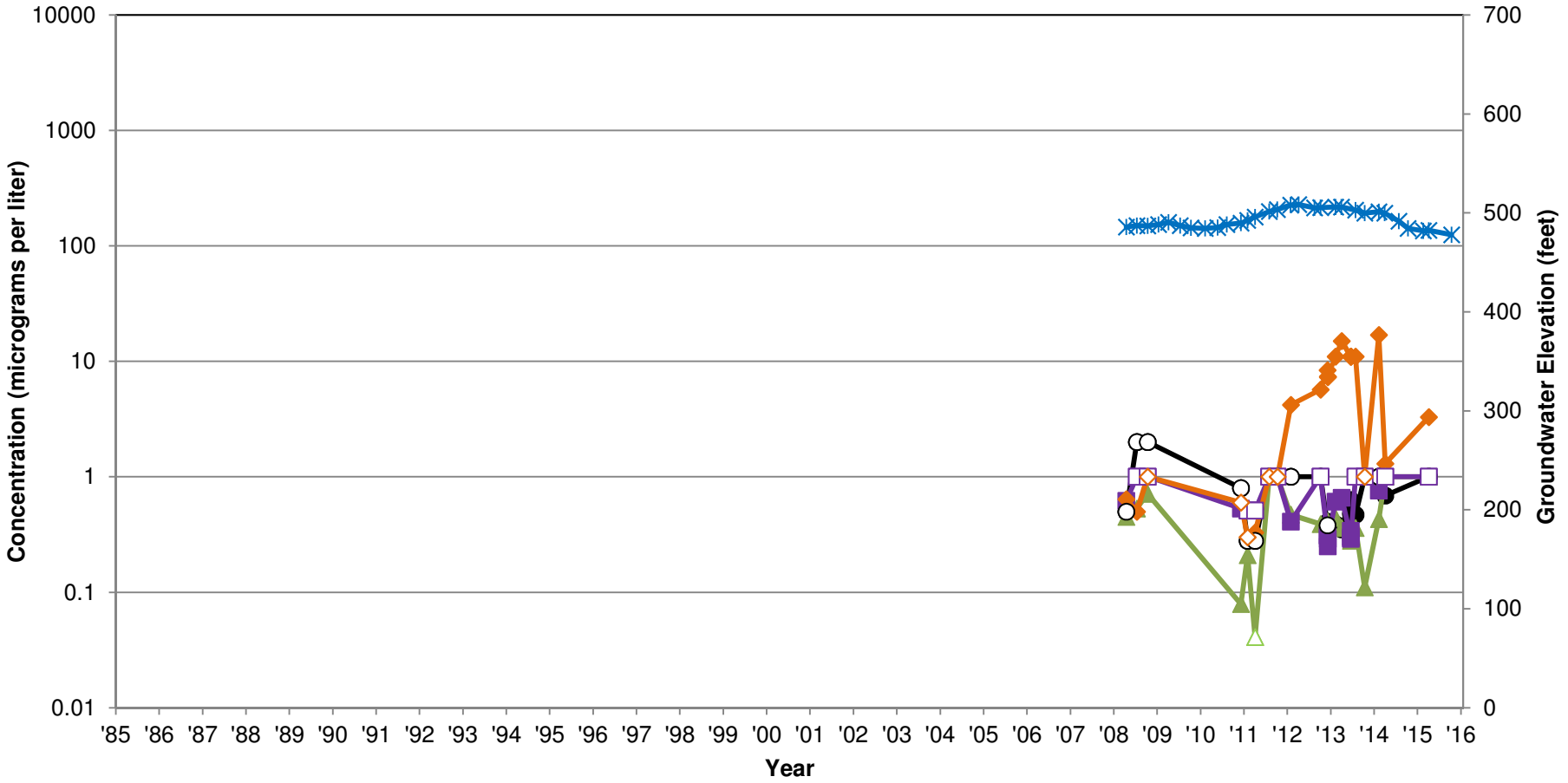
Figure
C7

GW-18B



Historical Concentrations of Chemicals of Potential Concern Over Time
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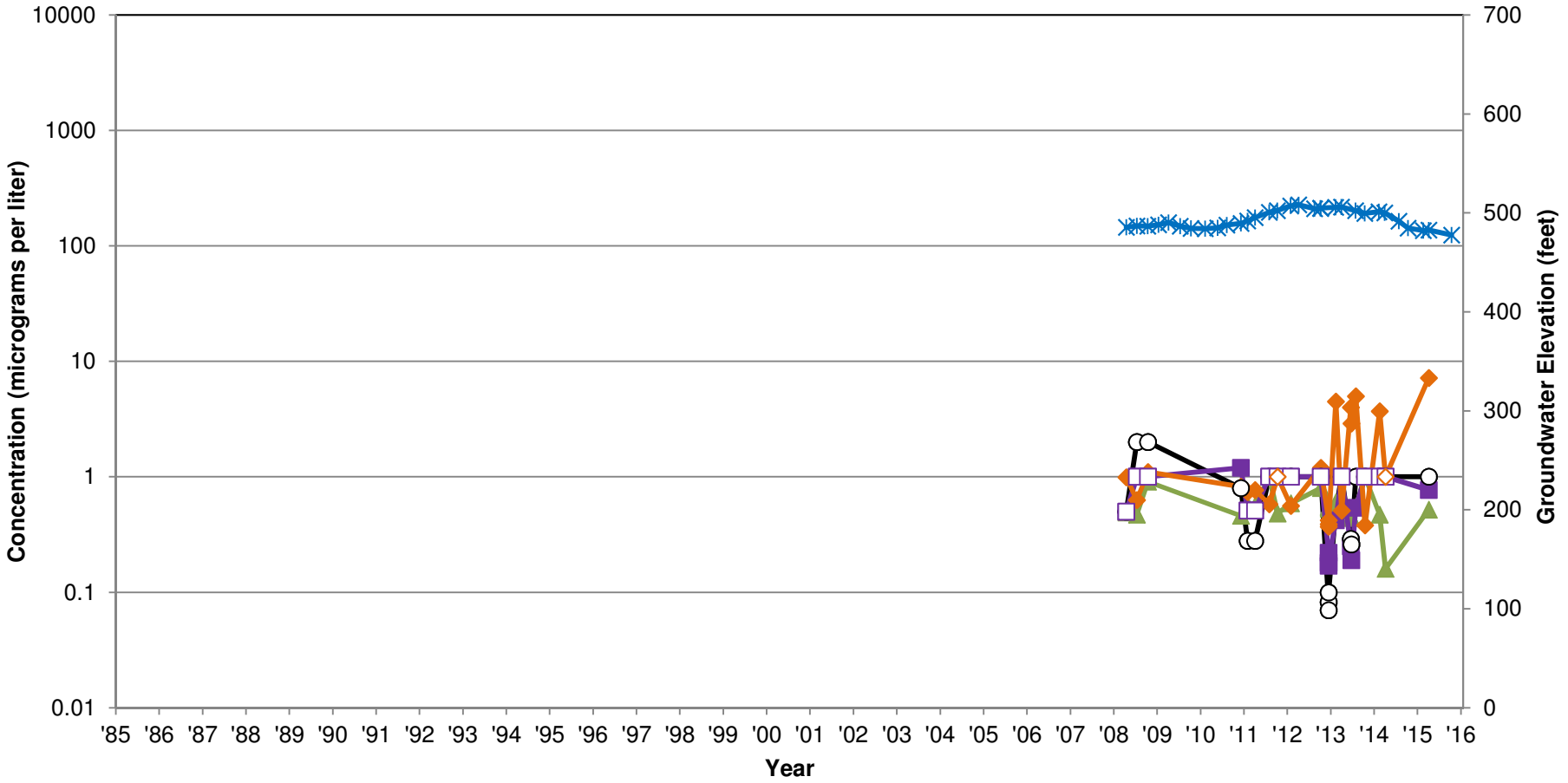
Figure
C8

GW-19B



Historical Concentrations of Chemicals of Potential Concern Over Time
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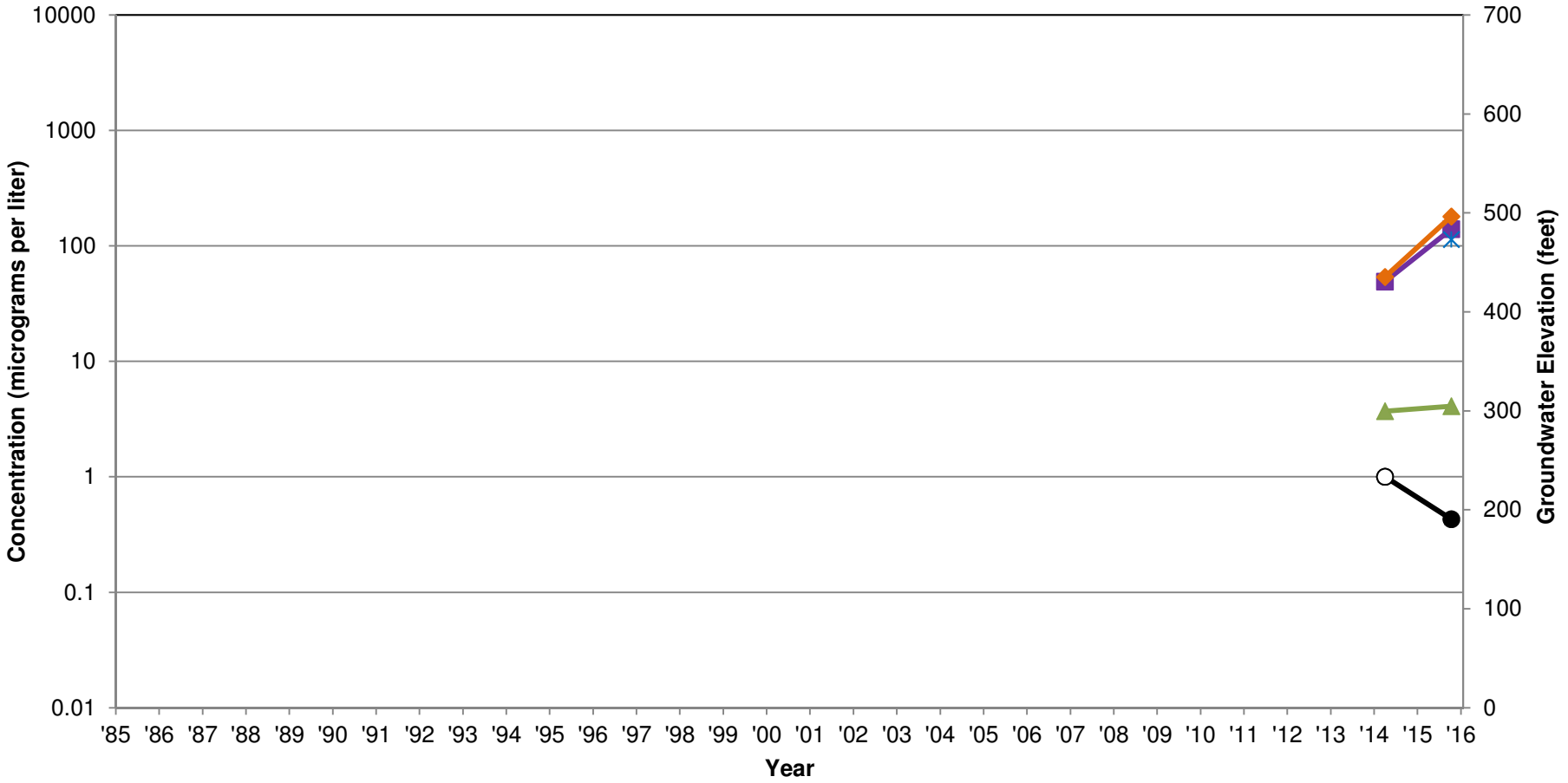
Figure
C9

HP-MW-01



Historical Concentrations of Chemicals of Potential Concern Over Time
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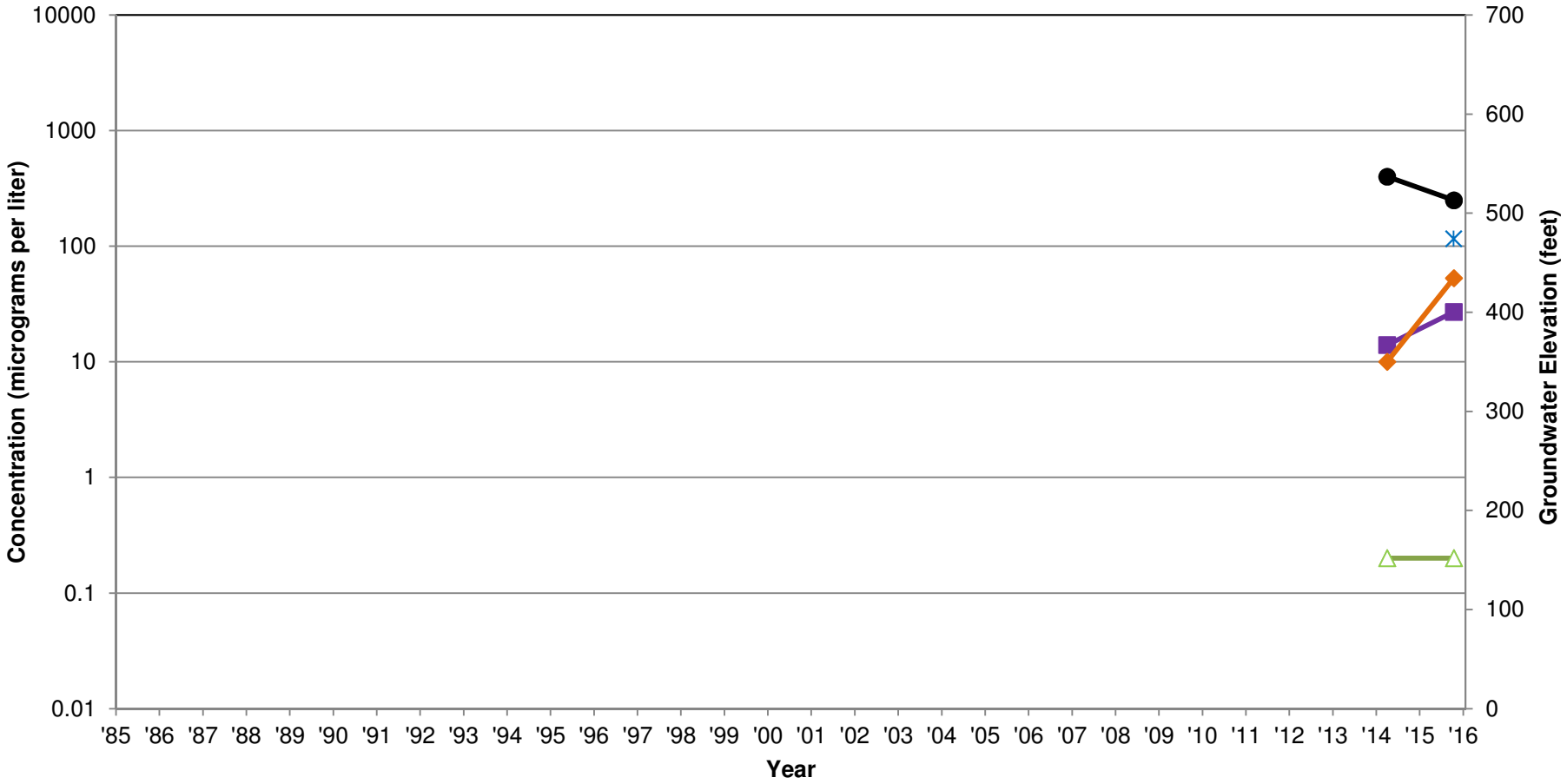
Figure
C10

HP-MW-02



Historical Concentrations of Chemicals of Potential Concern Over Time
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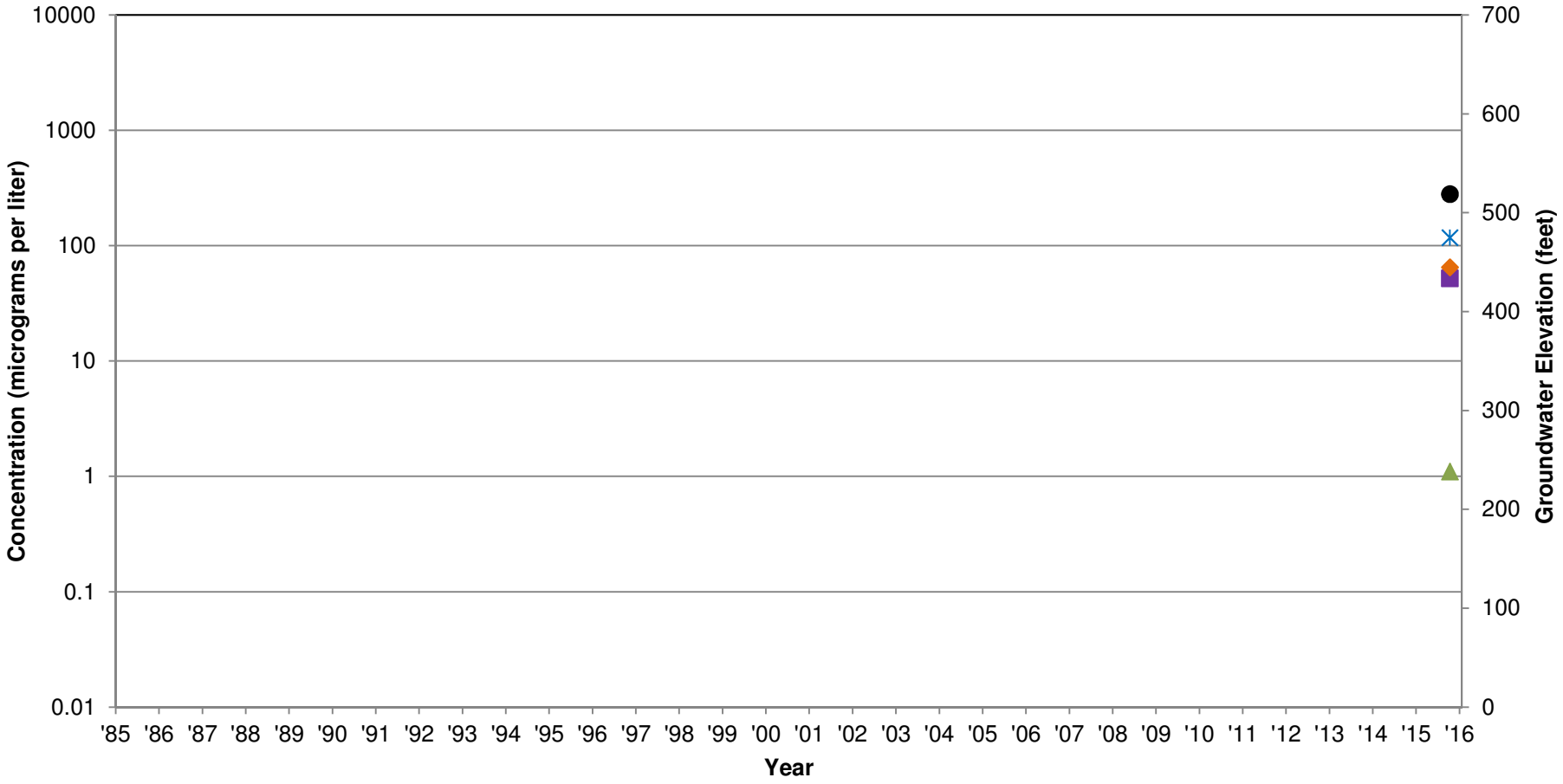
Figure
C11

HP-MW-05



Historical Concentrations of Chemicals of Potential Concern Over Time
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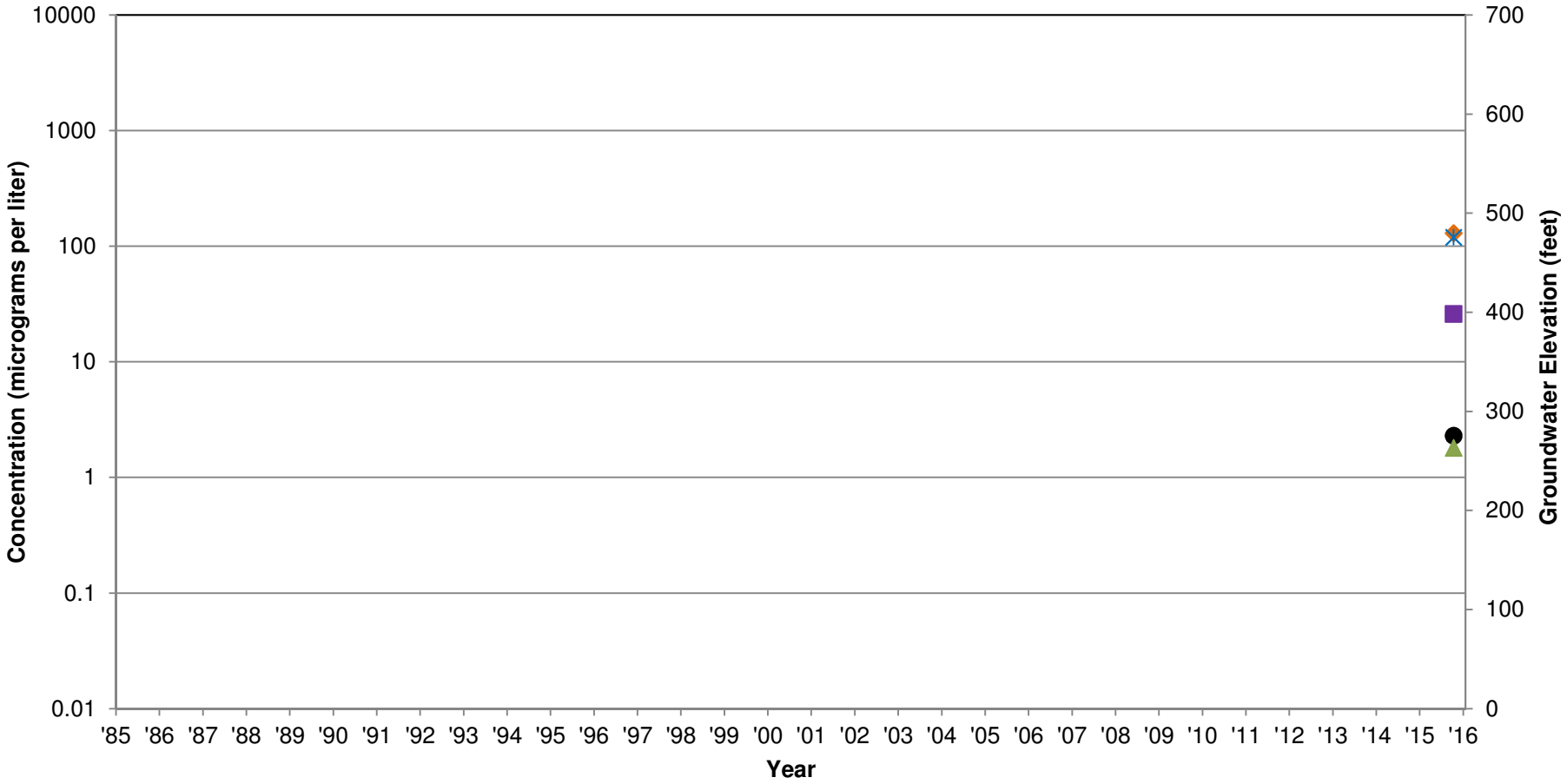
Figure
C12

HP-MW-06



Historical Concentrations of Chemicals of Potential Concern Over Time
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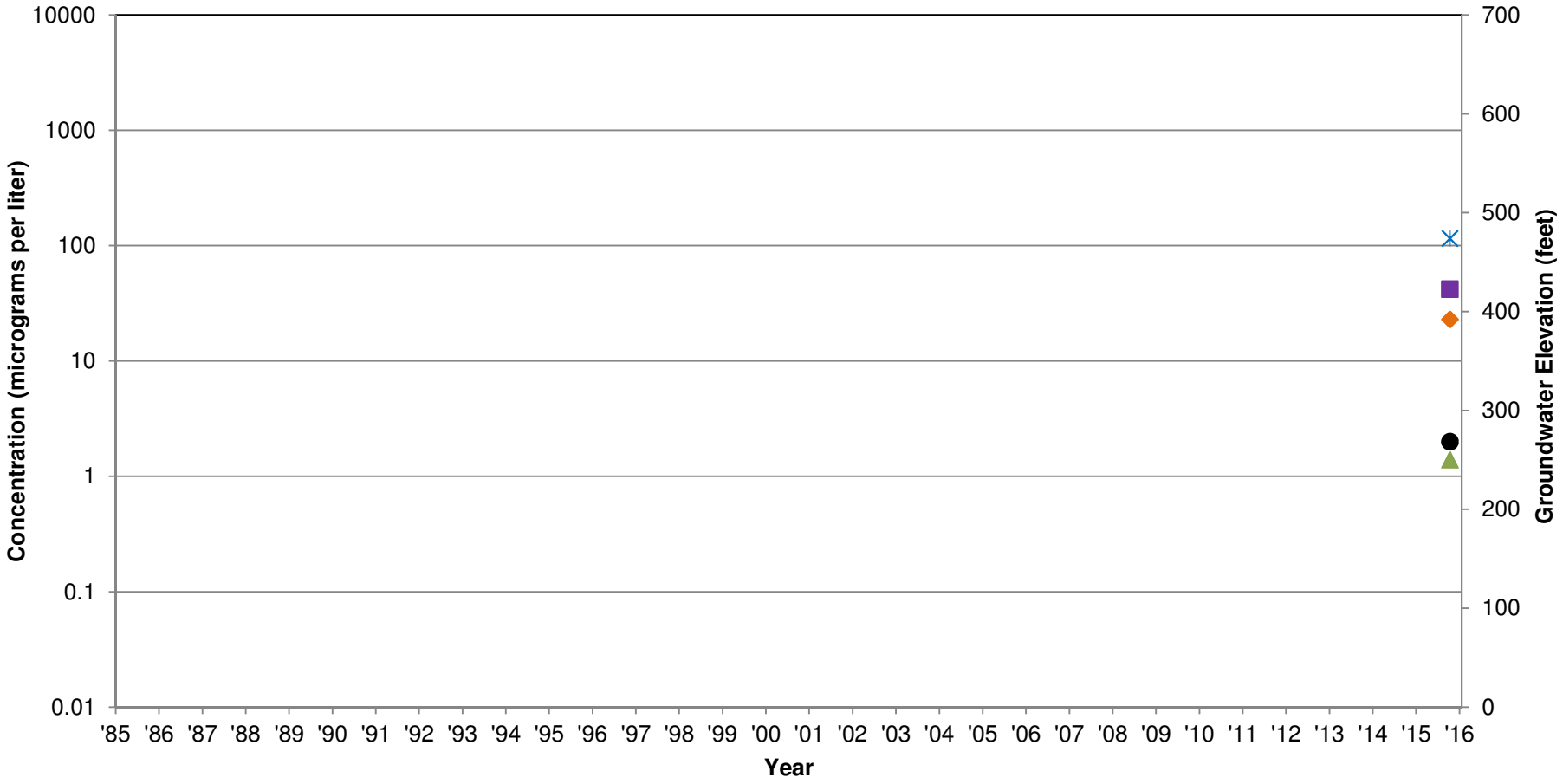
Figure
C13

HP-MW-07



Historical Concentrations of Chemicals of Potential Concern Over Time
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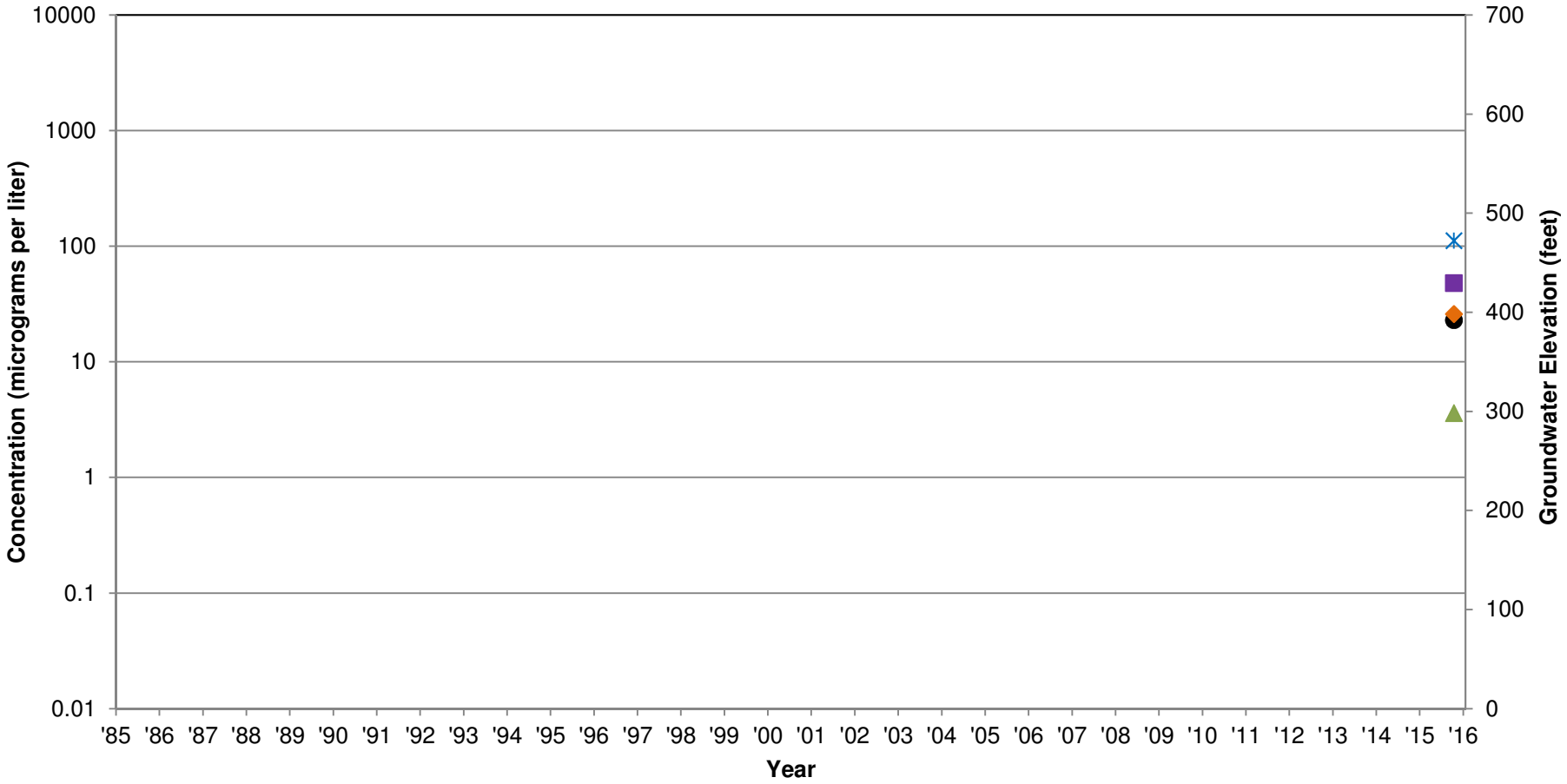
Figure
C14

HP-MW-08S



Historical Concentrations of Chemicals of Potential Concern Over Time
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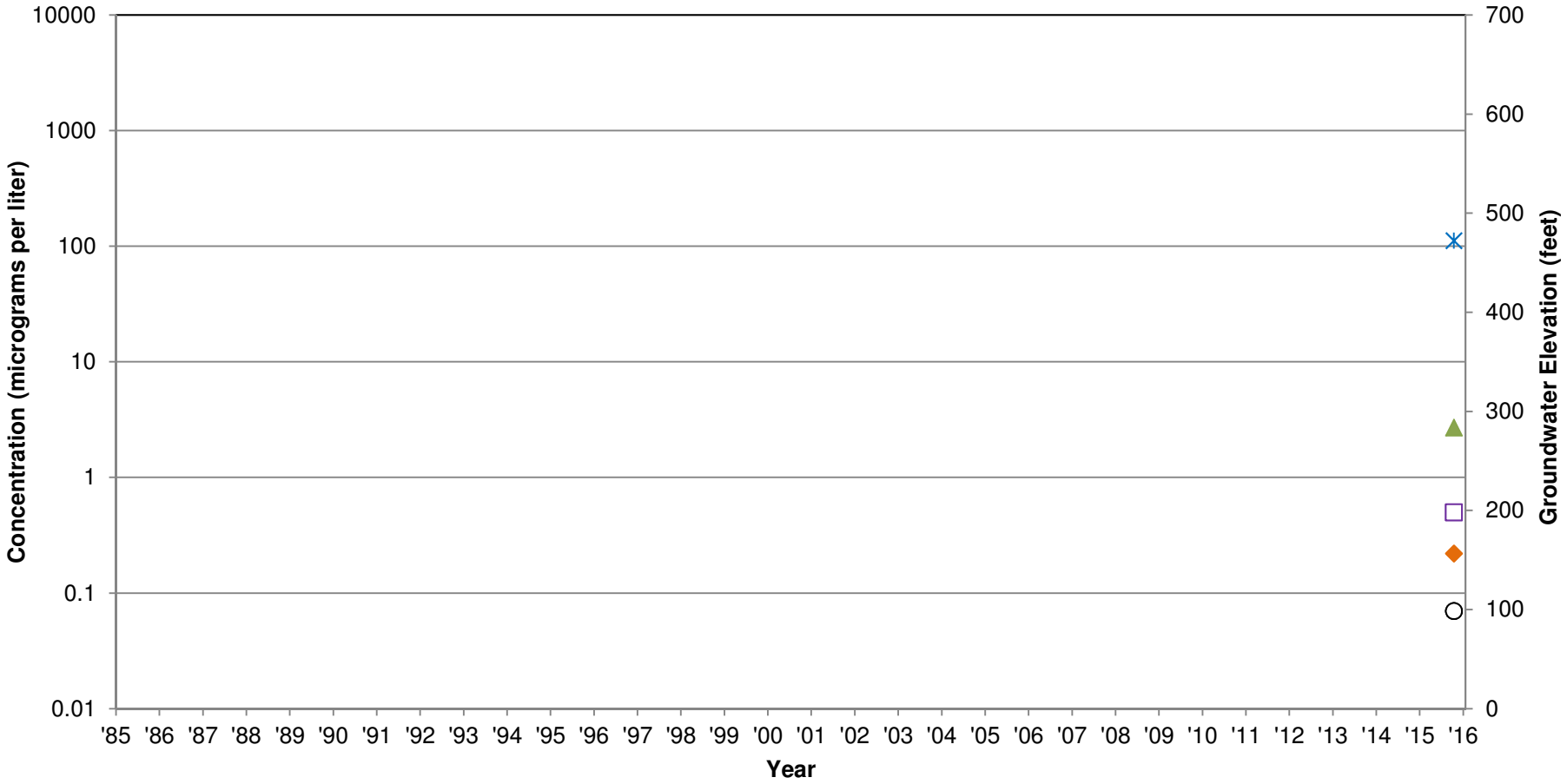
Figure
C15

HP-MW-08D



Historical Concentrations of Chemicals of Potential Concern Over Time
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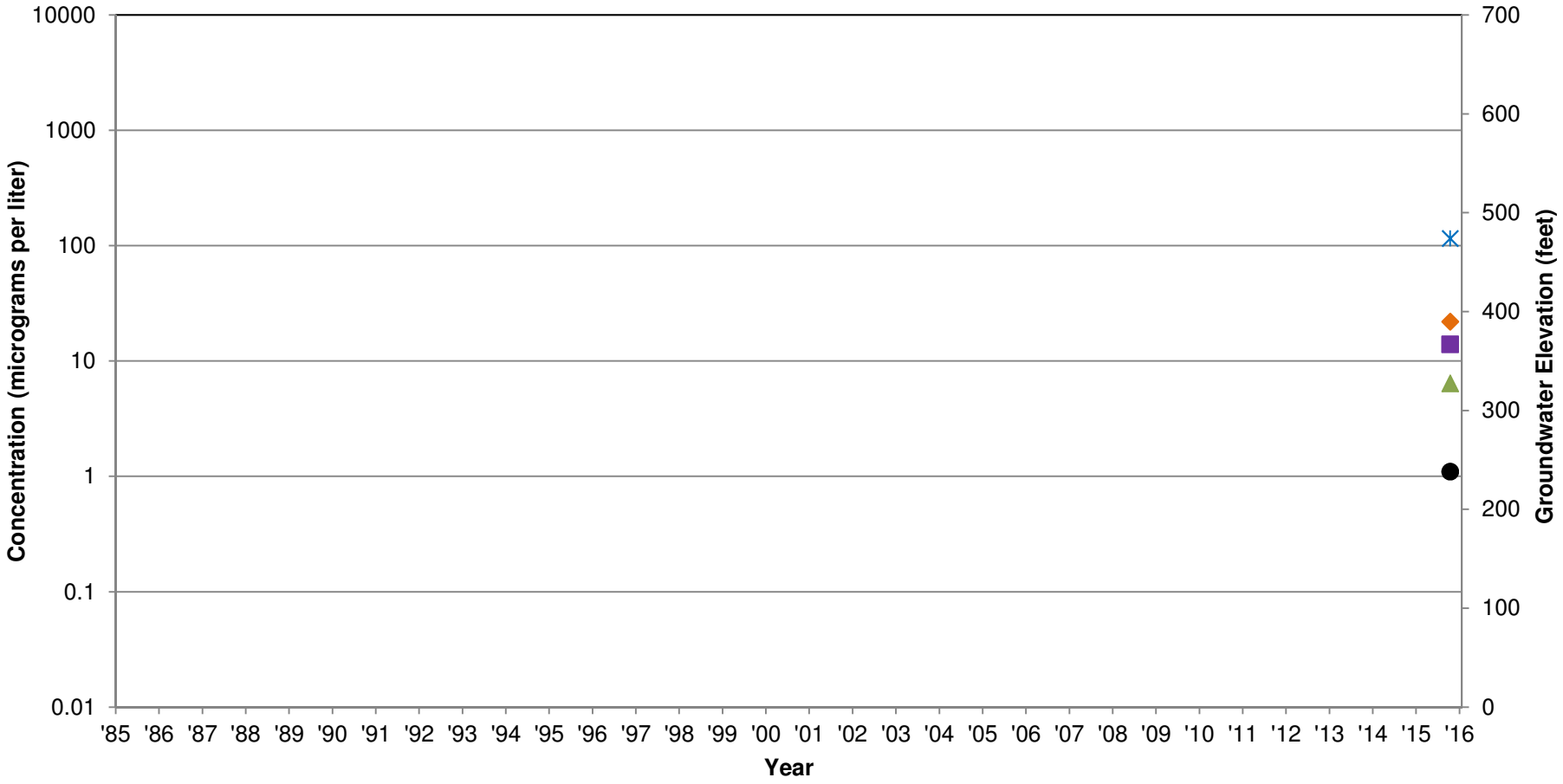
Figure
C16

HP-MW-09



Historical Concentrations of Chemicals of Potential Concern Over Time
North Hollywood Operable Unit

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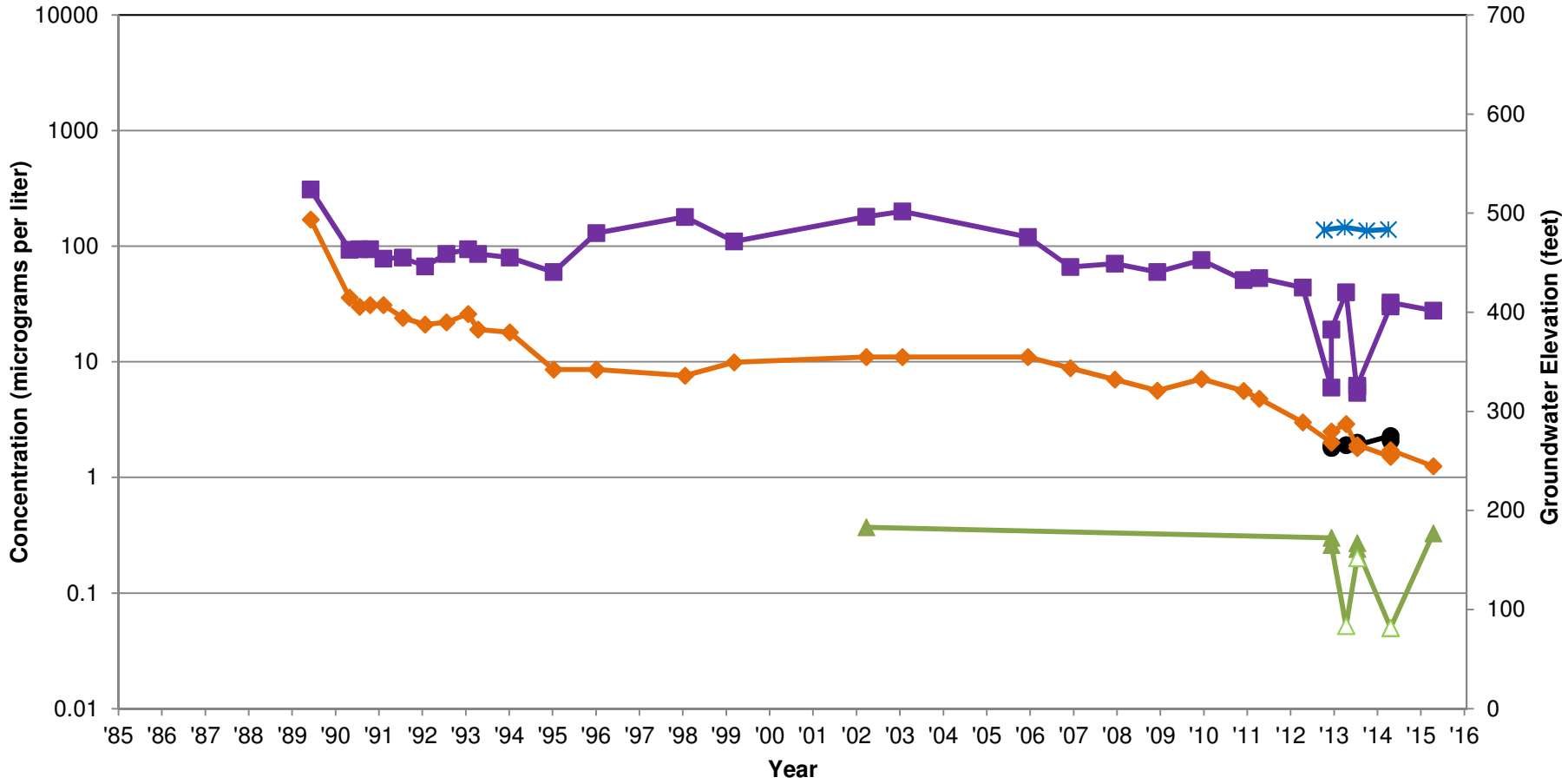
Figure
C17

LA1-CW05



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North Hollywood Operable Unit

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Figure
C18

NH-C01-450

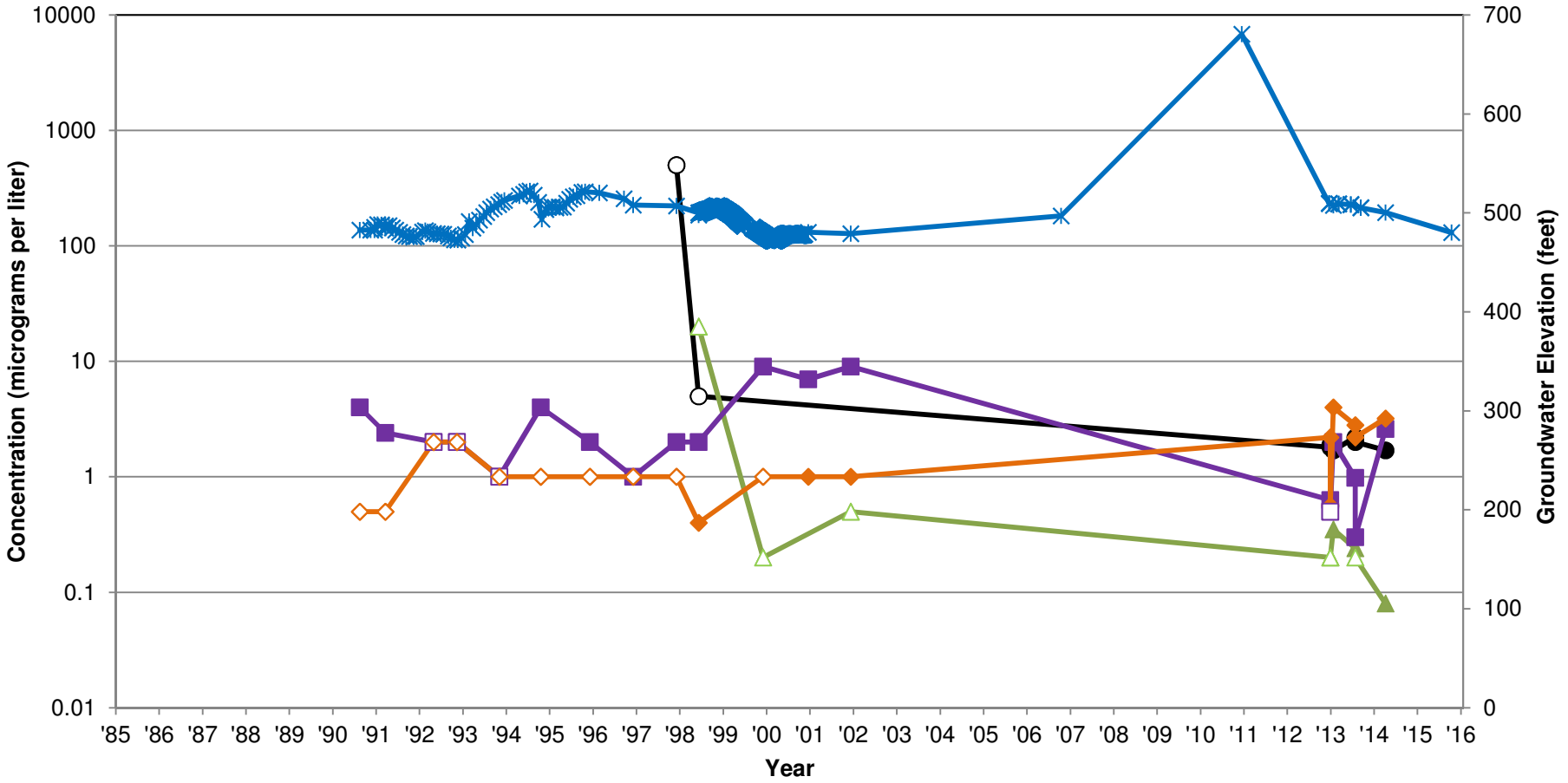

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Figure
C19

NH-C03-380

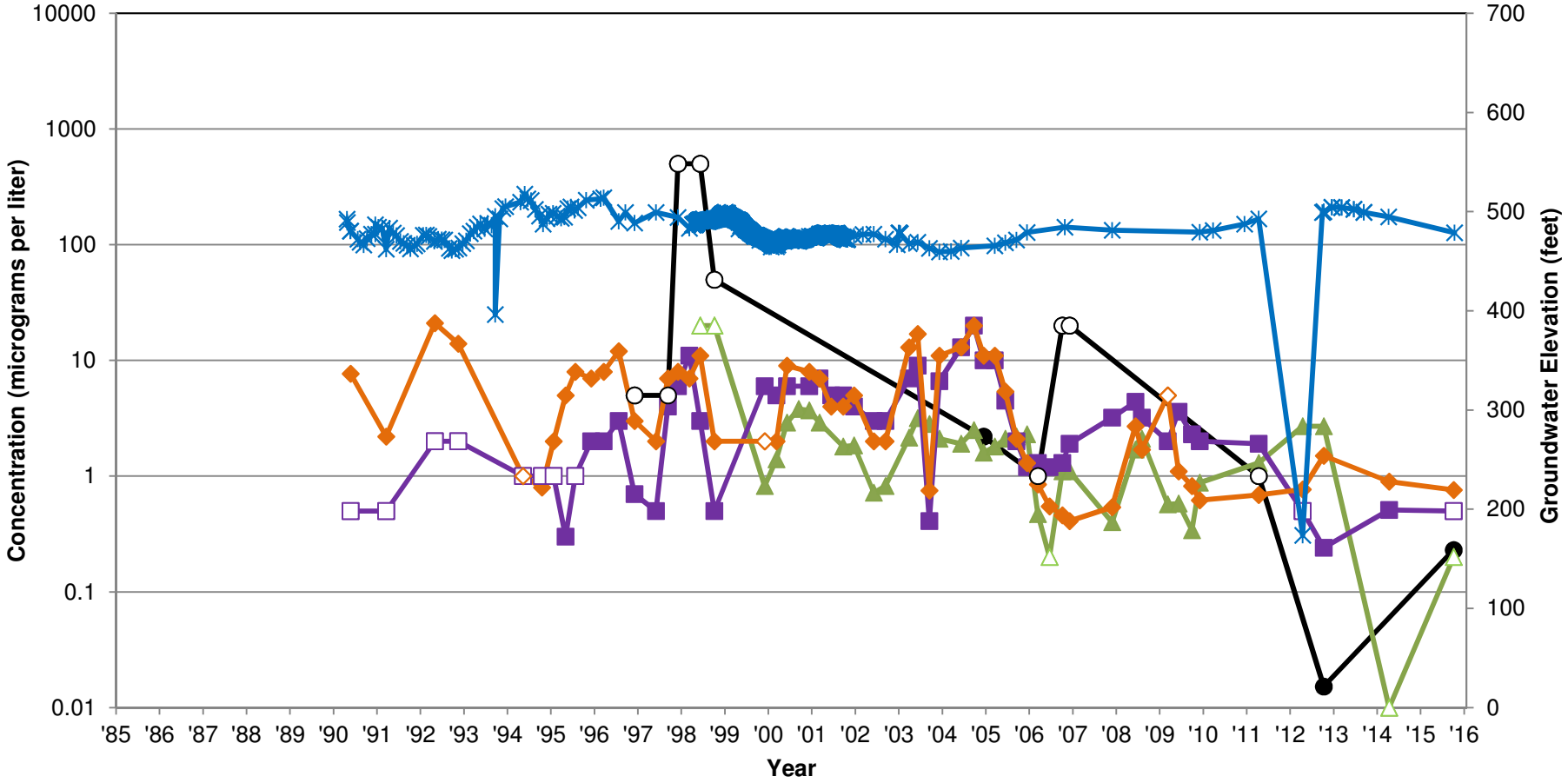

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Figure
C20

NH-C05-460

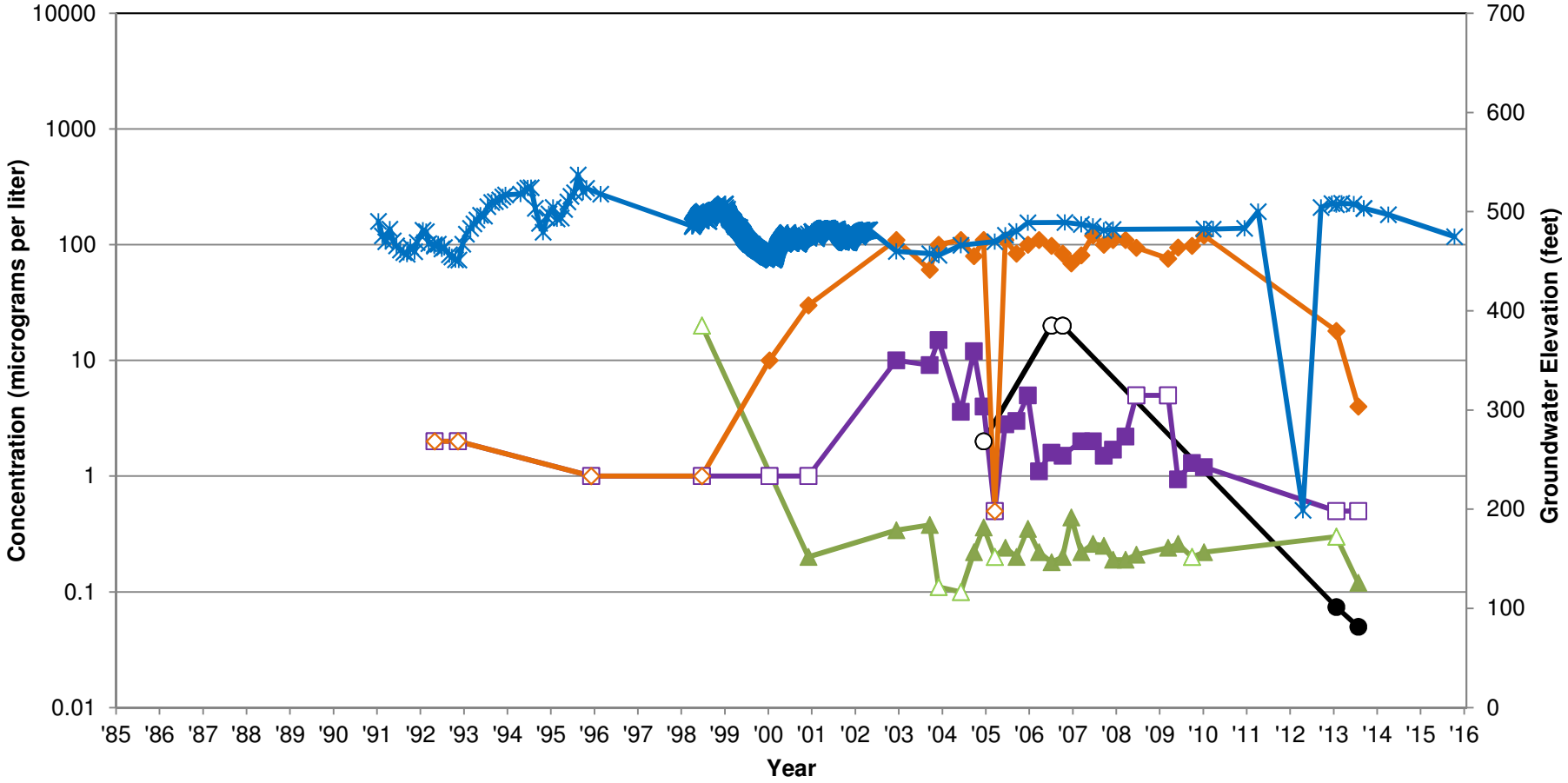

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Figure
C21

NH-C07-300

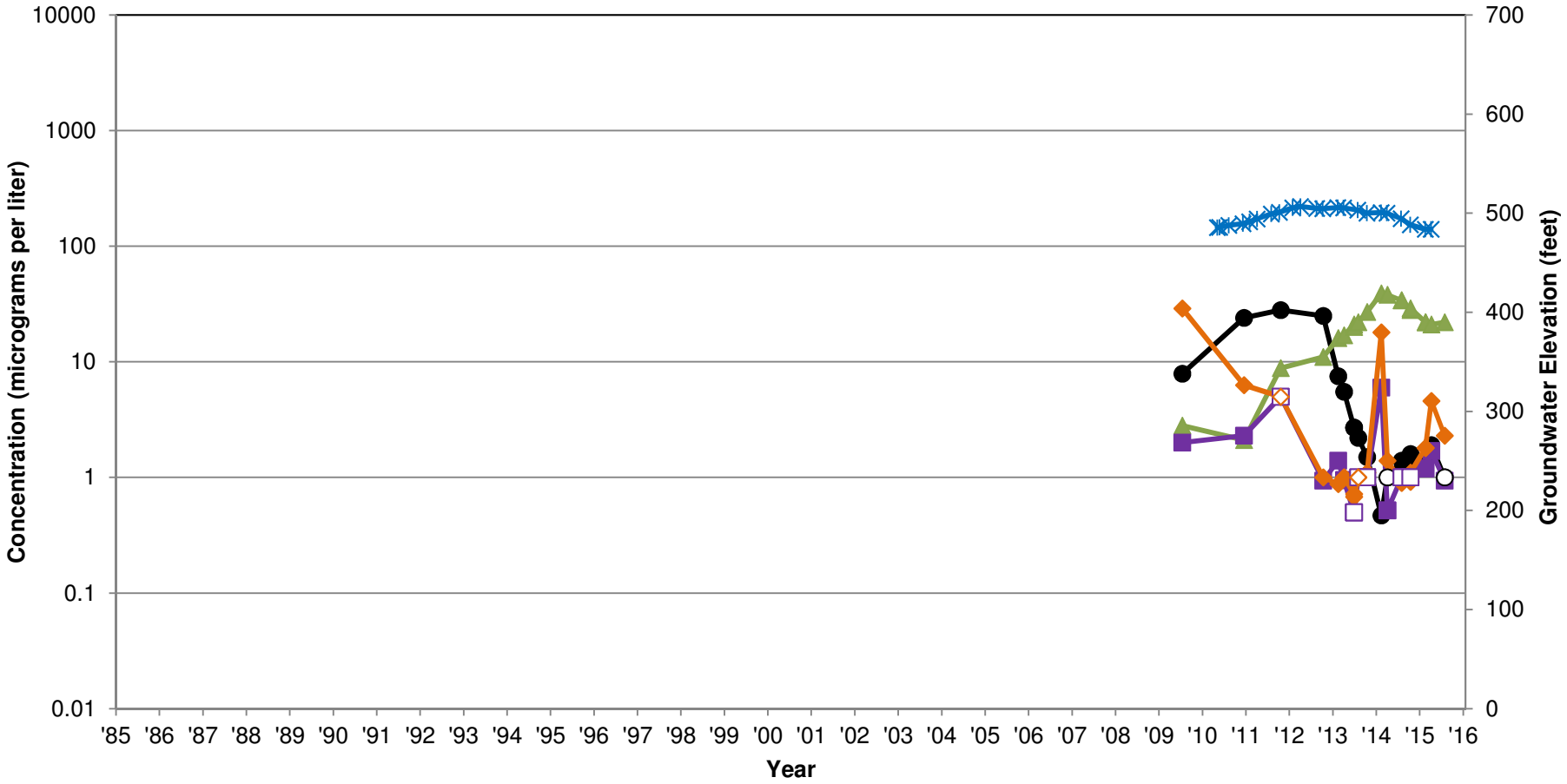

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Figure
C22

NH-C09-310

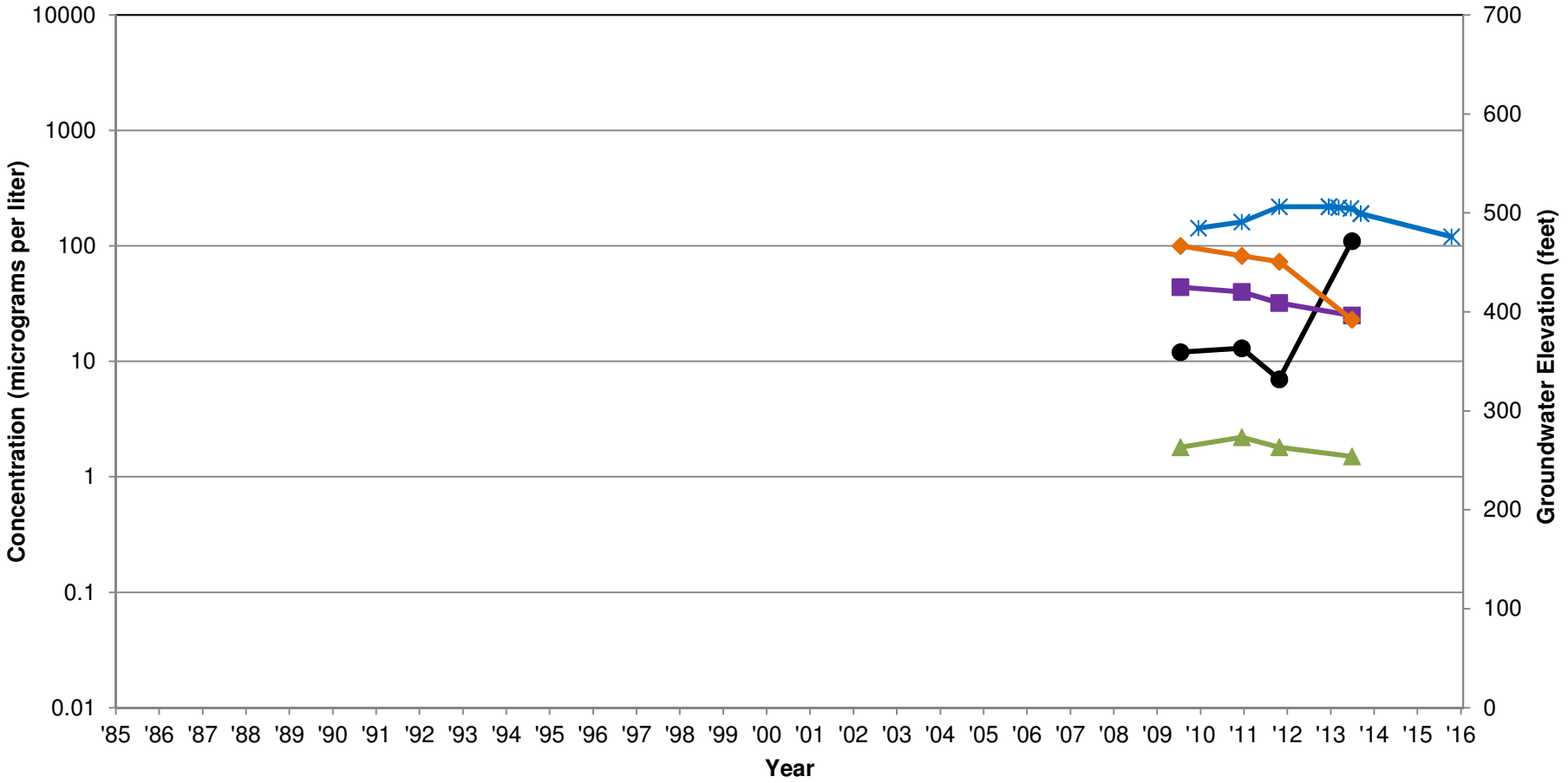

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Figure
C23

NH-C10-280

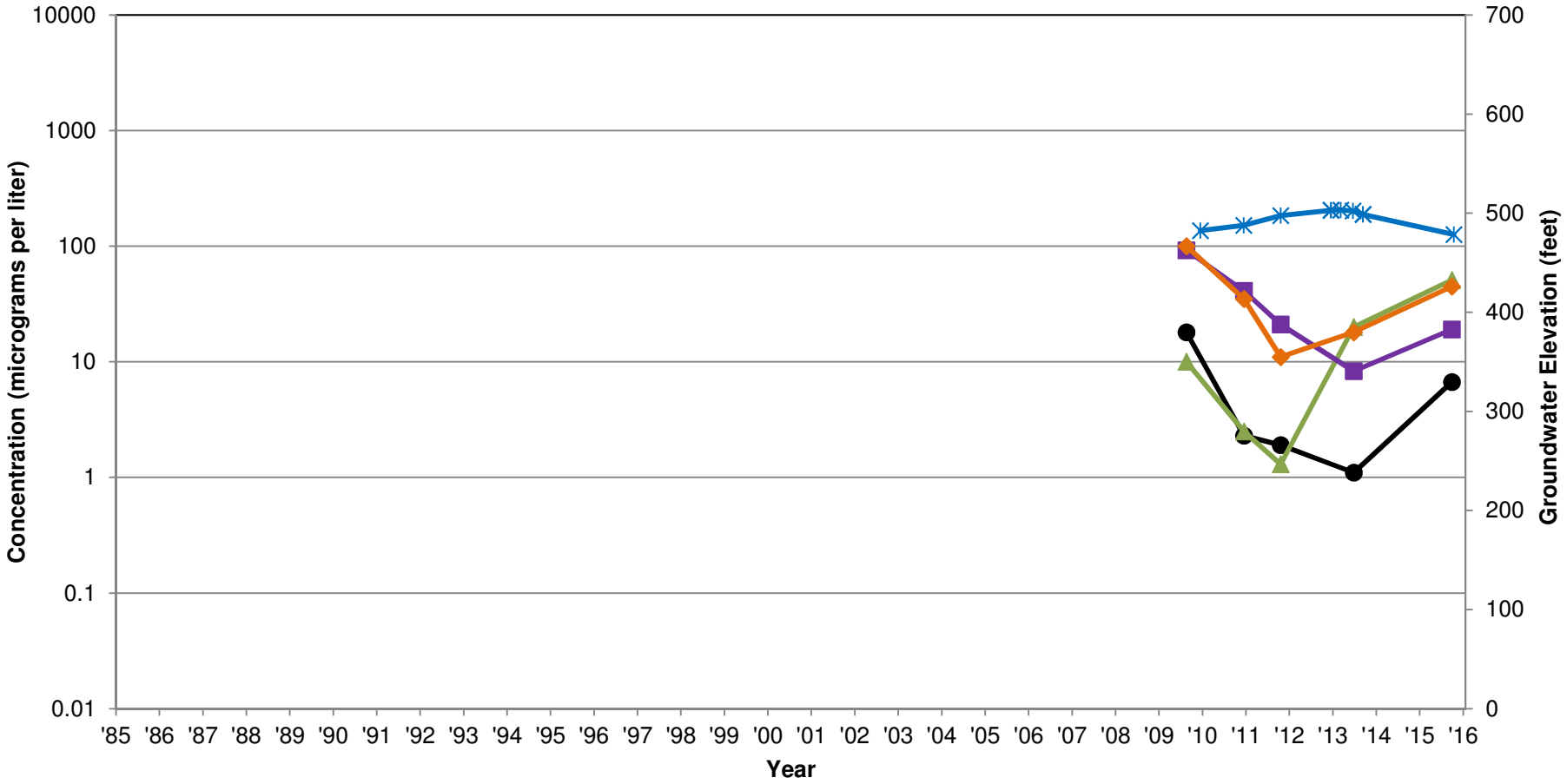

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Figure
C24

NH-C10-360

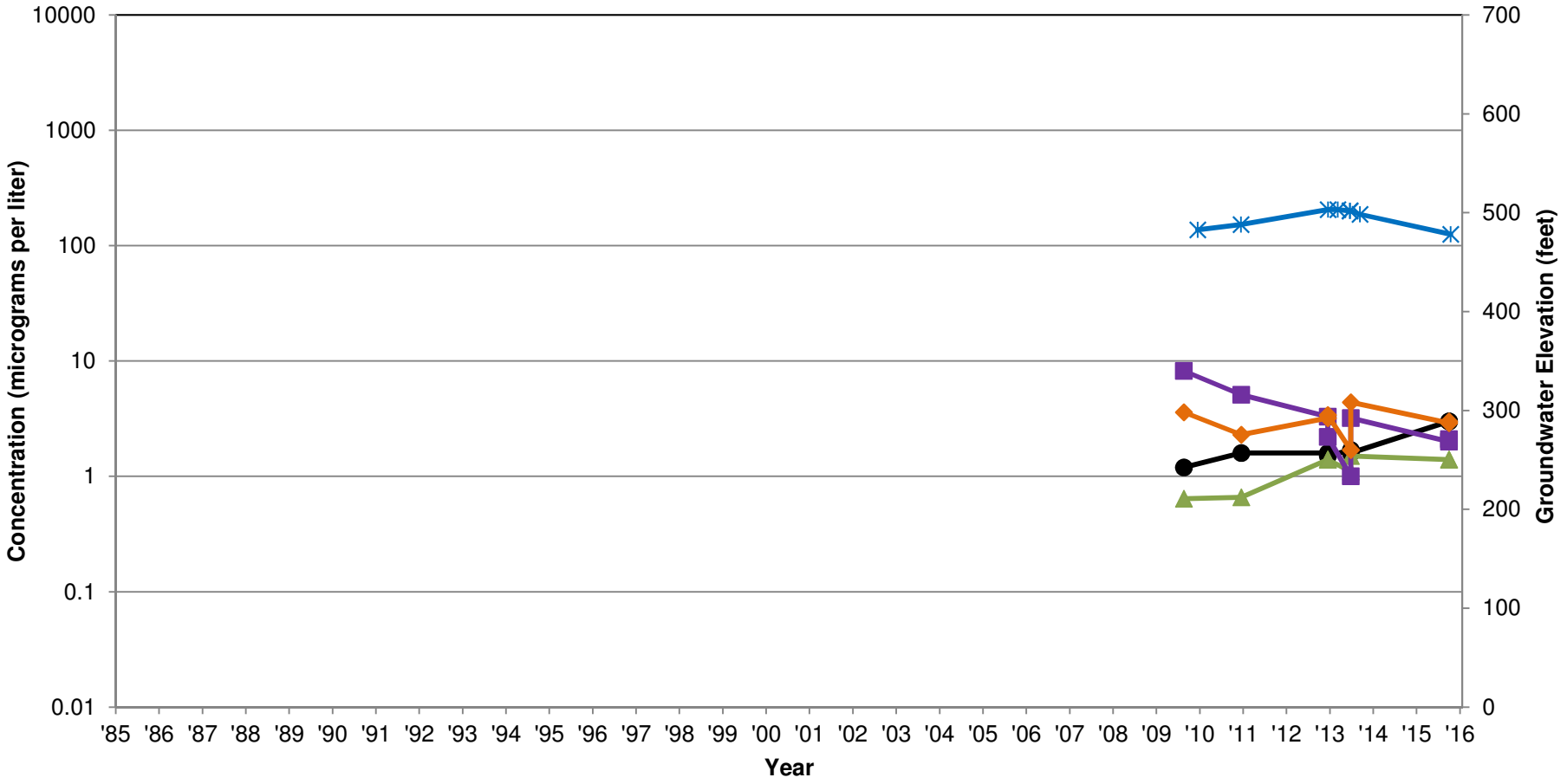

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Figure
C25

NH-C11-295

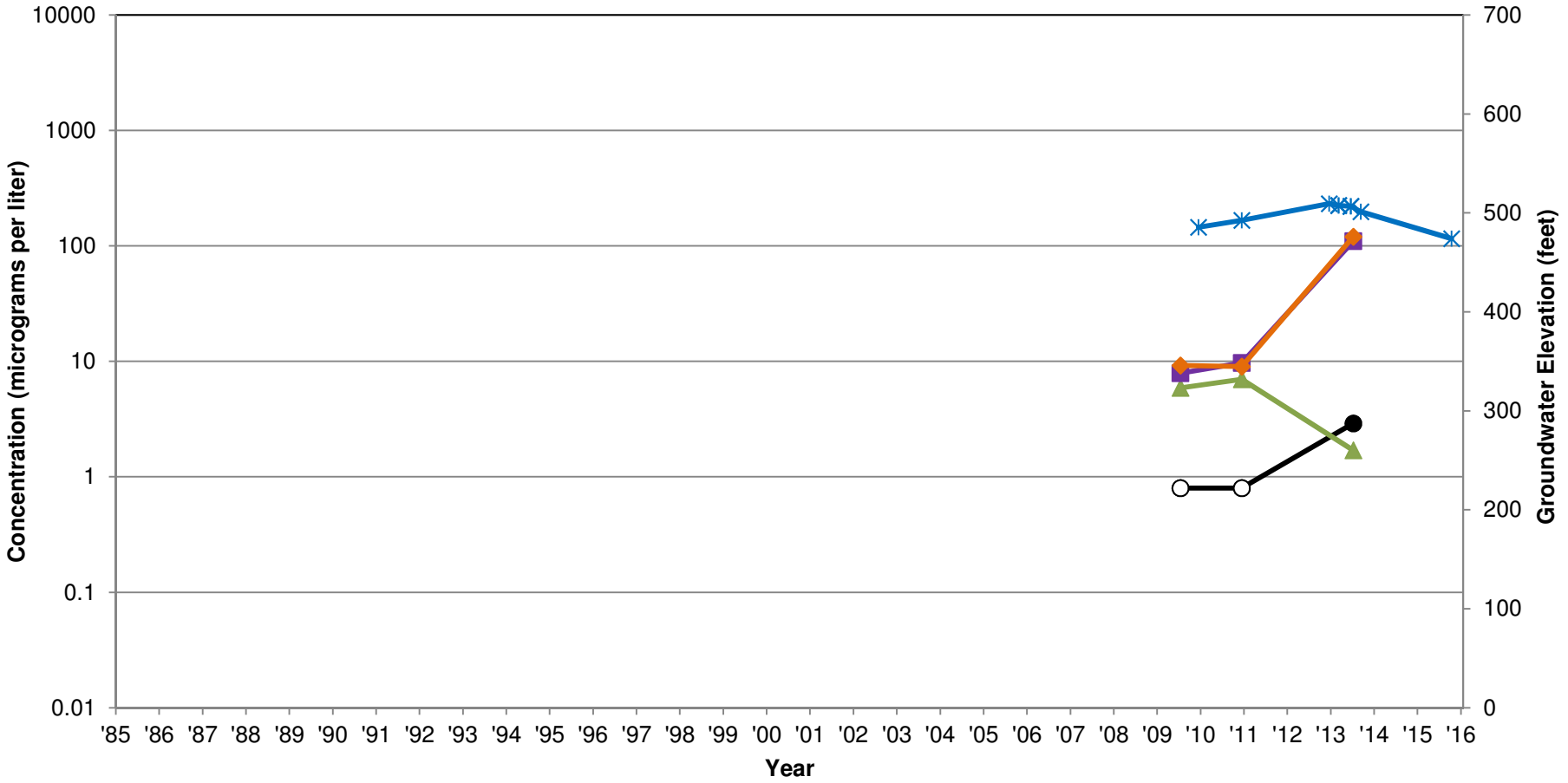

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Figure
C26

NH-C12-280

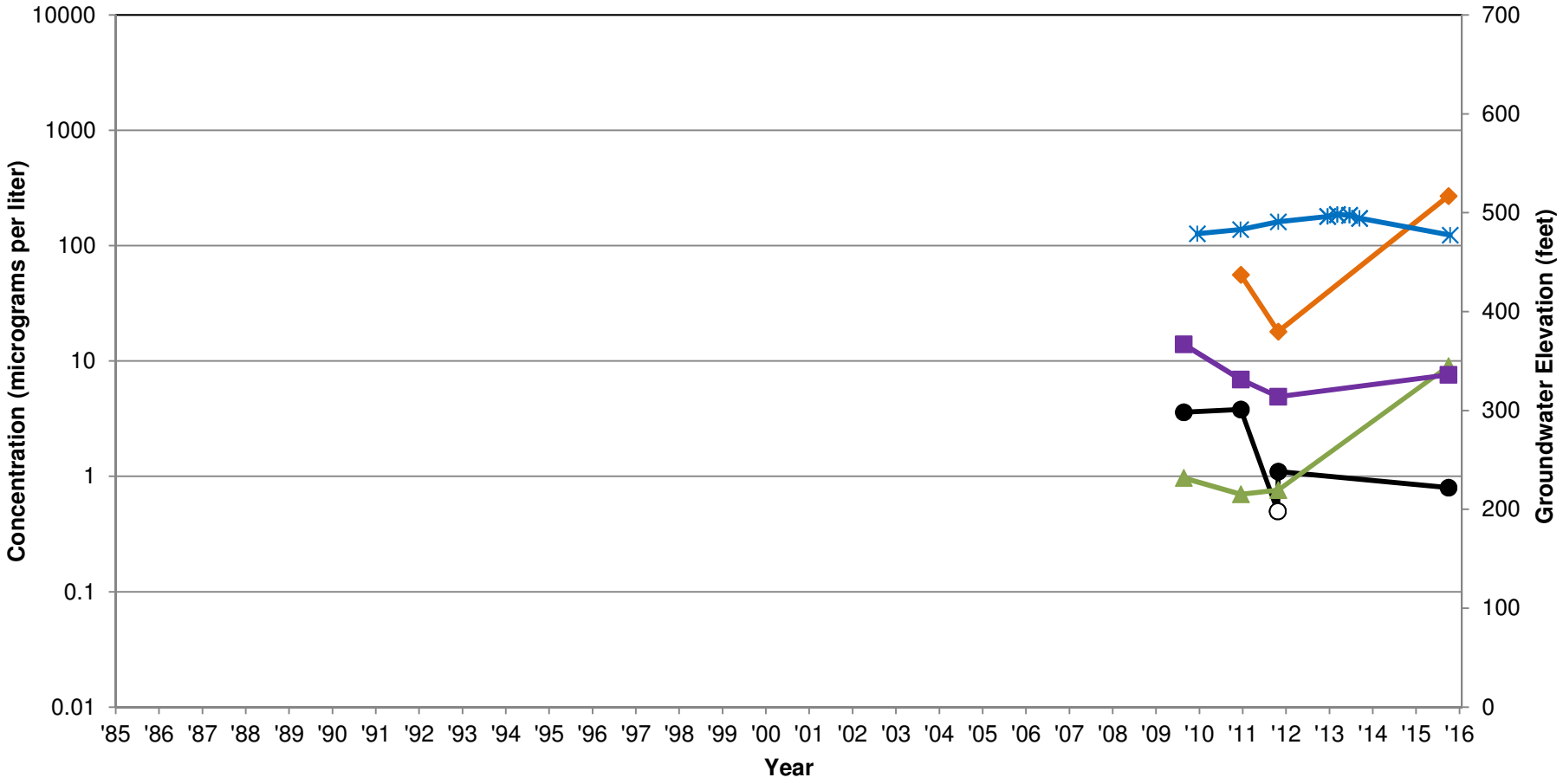

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Figure **C27**

NH-C12-360

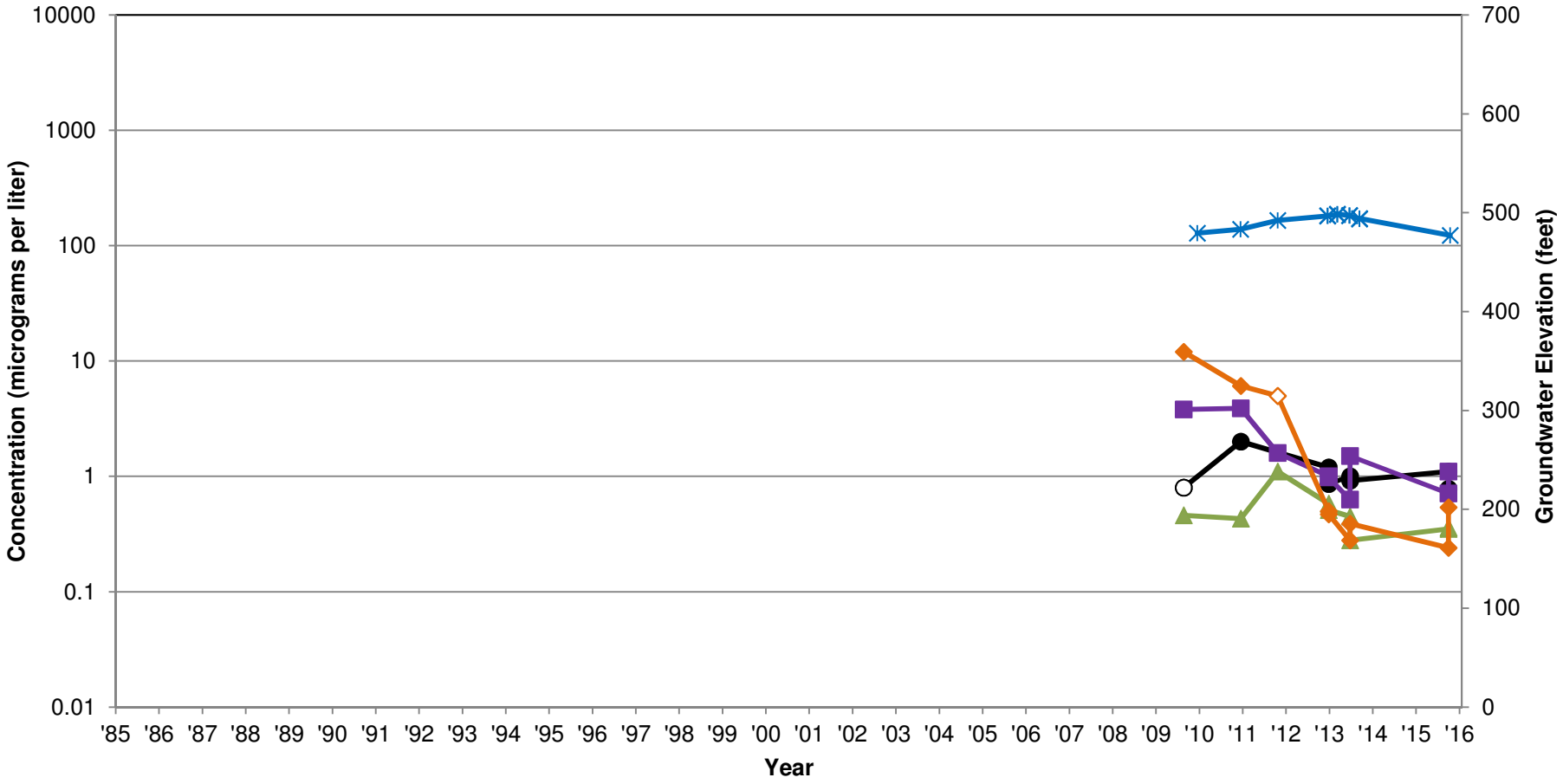

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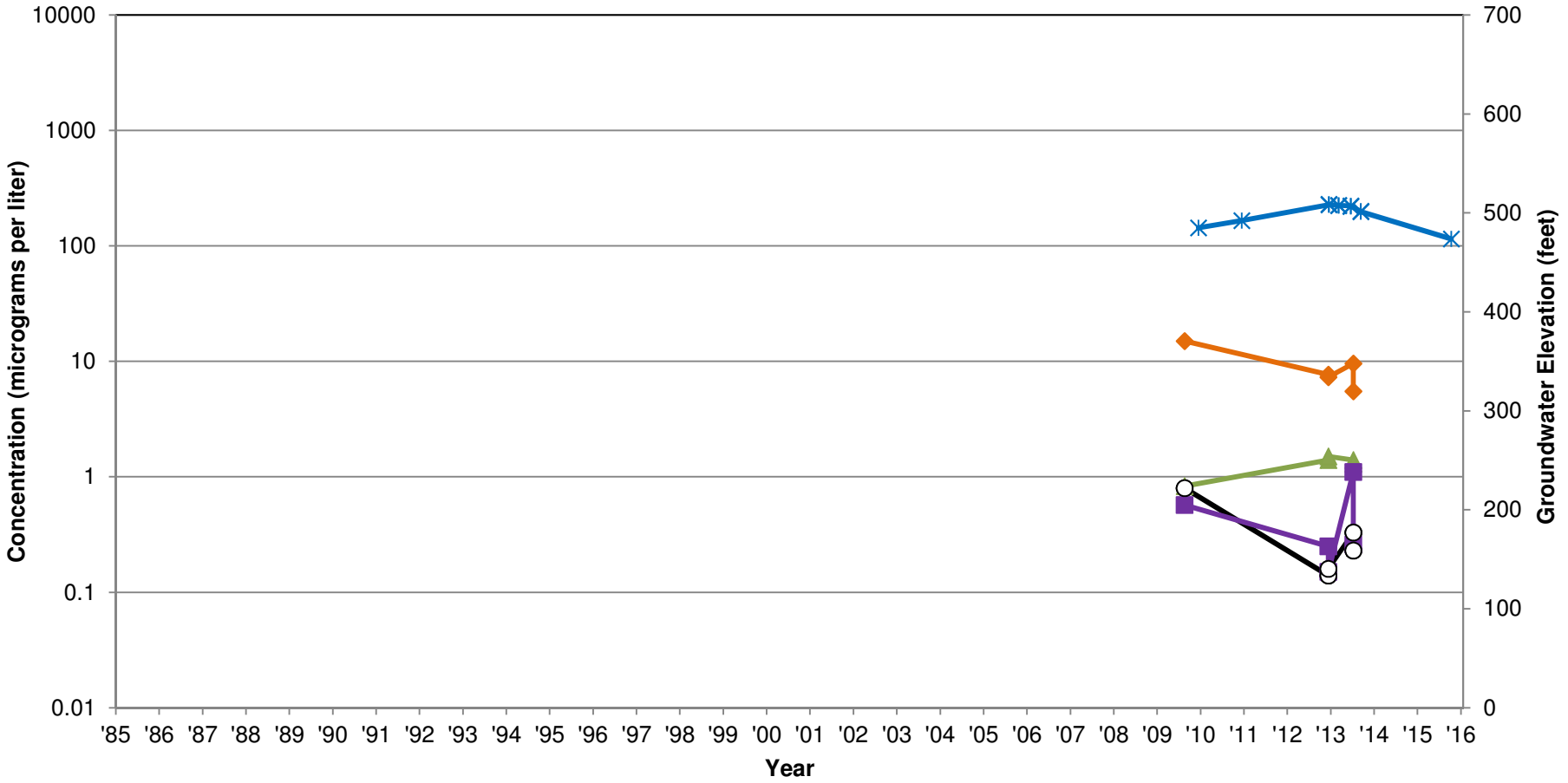
Figure
C28

NH-C13-385



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C29

NH-C14-250

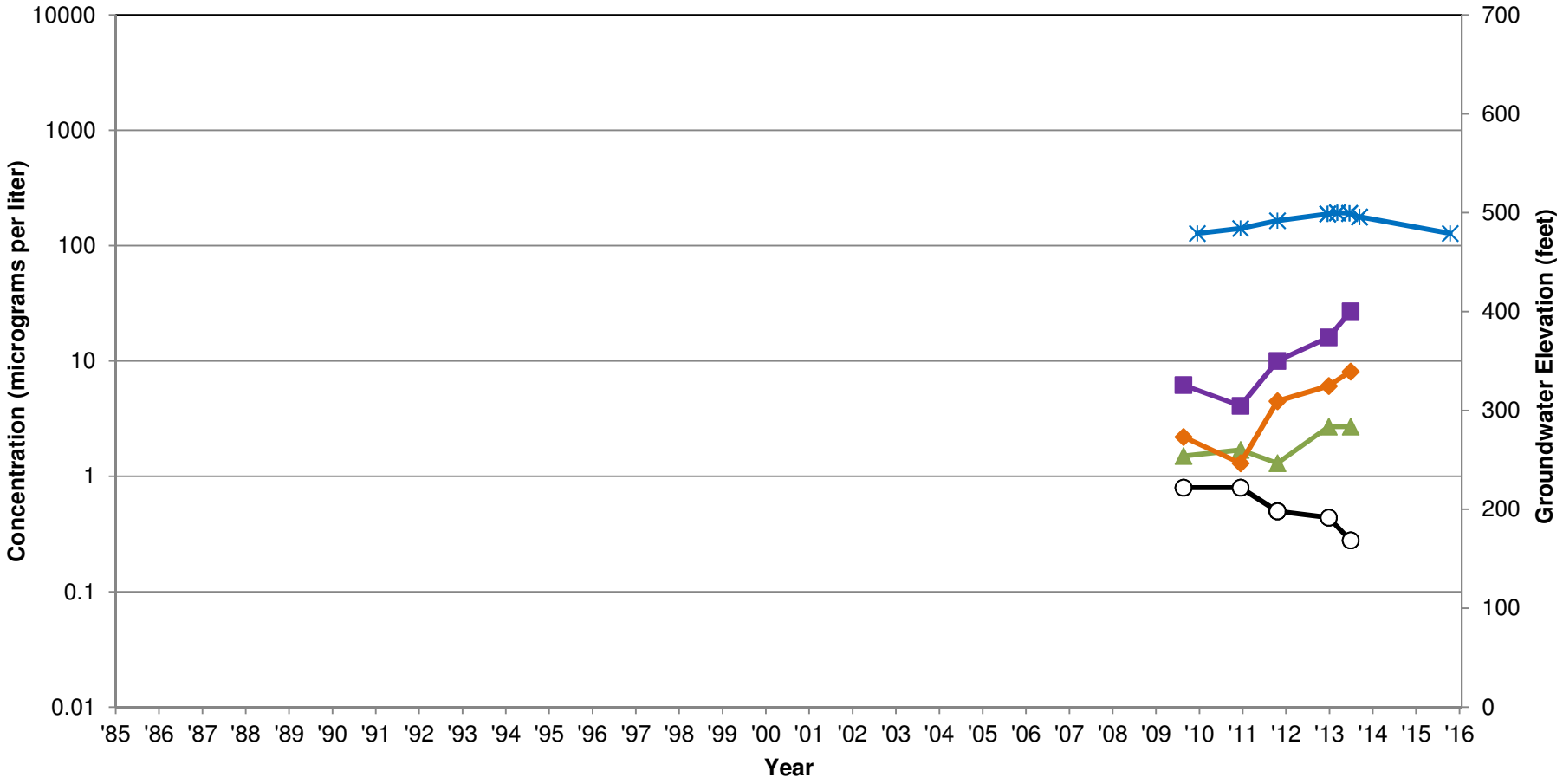

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Figure
C30

NH-C15-240

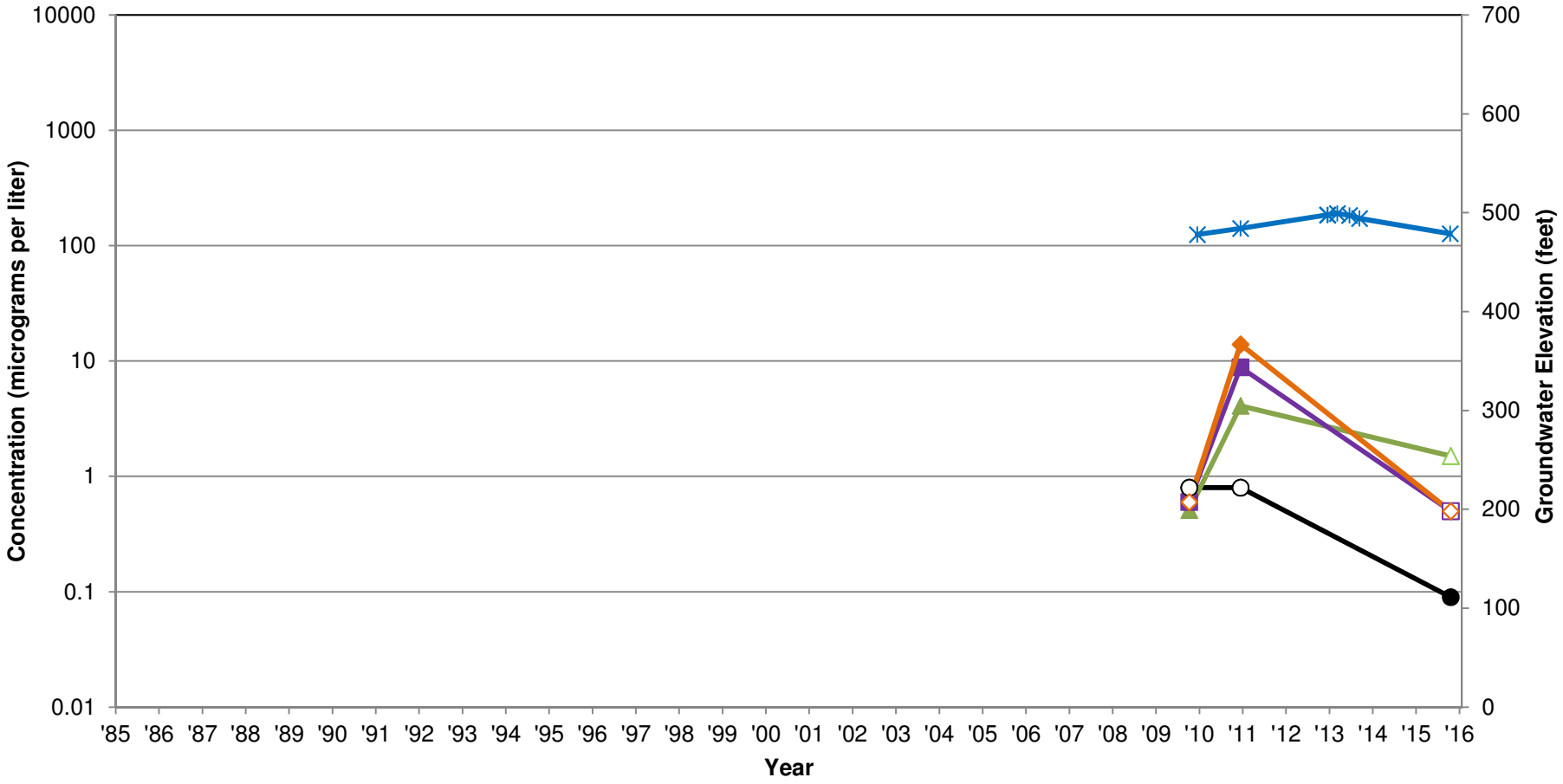

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Figure
C31

NH-C15-330 (A Zone)

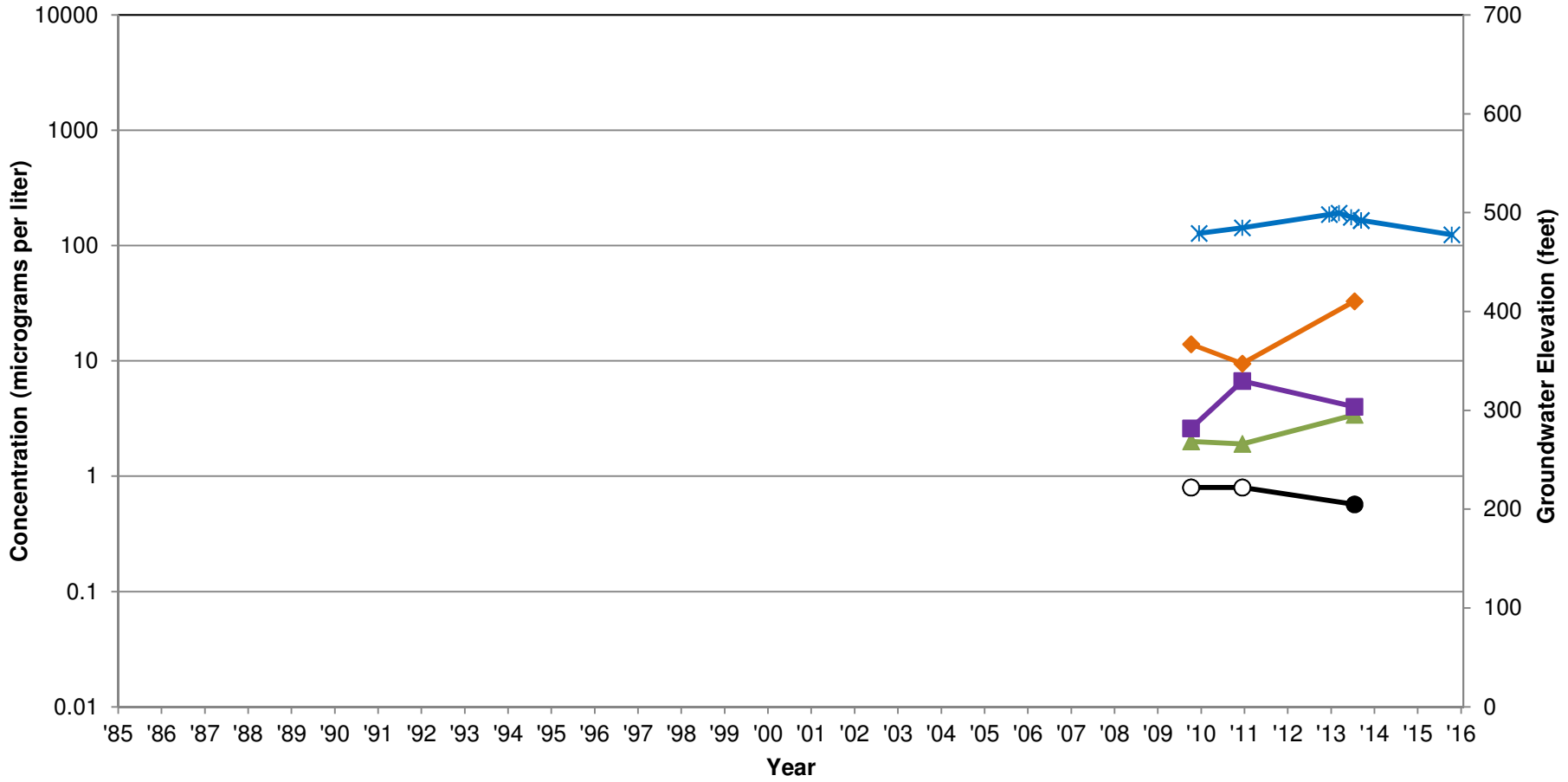

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Figure
C32

NH-C15-330 (B Zone)

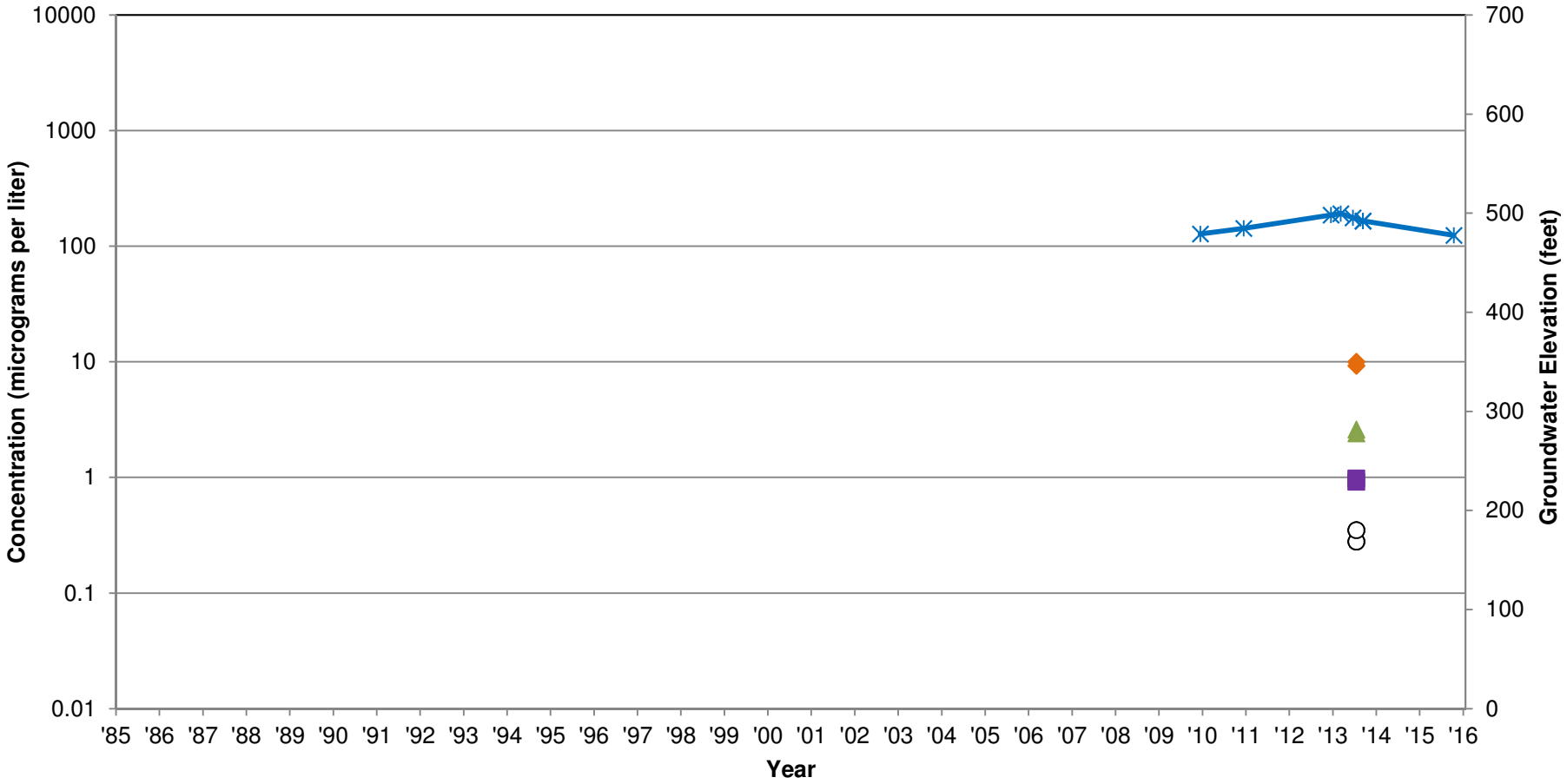

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Figure
C33

NH-C16-390 (A Zone)

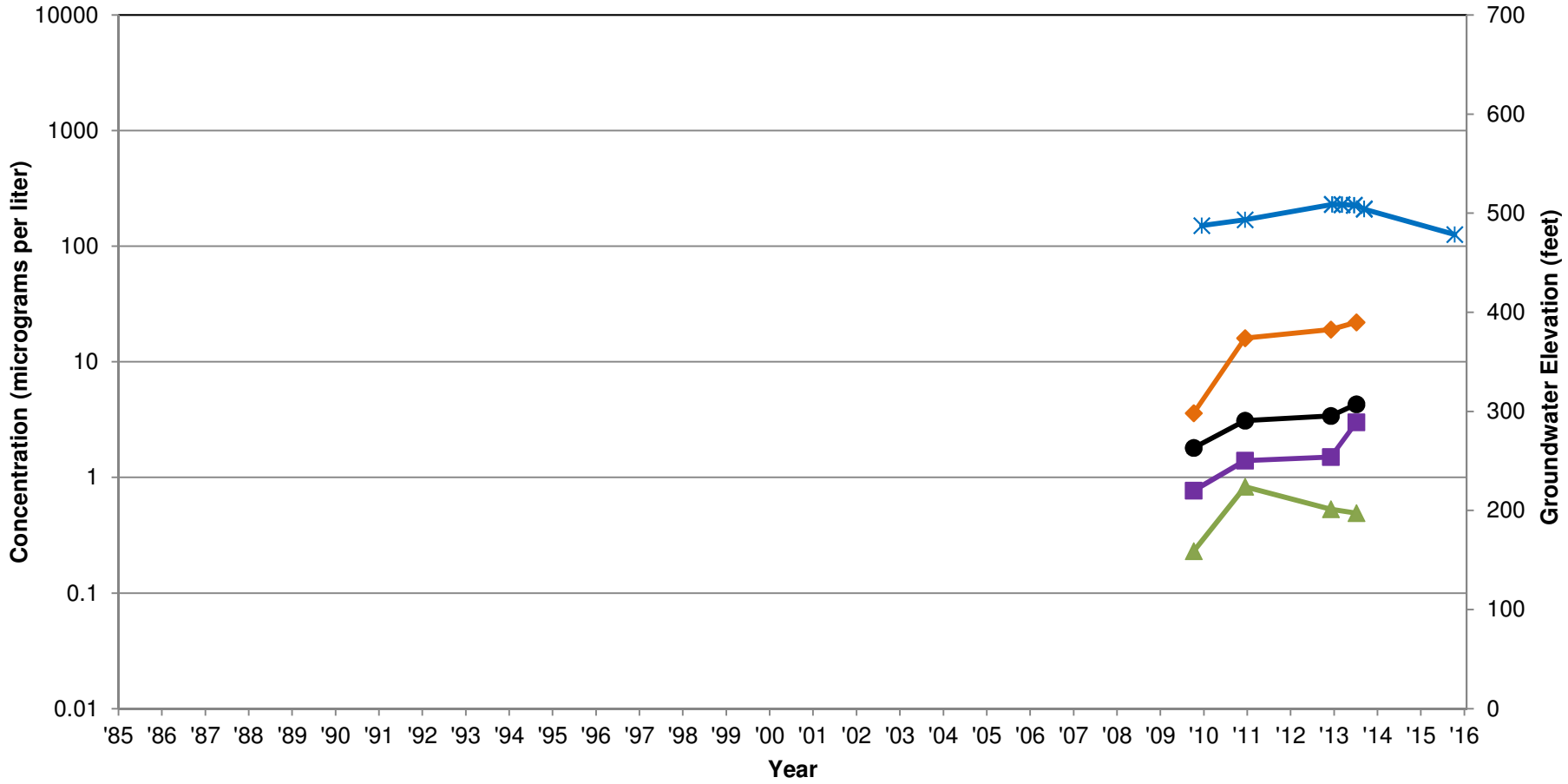

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Figure
C34

NH-C16-390 (B Zone)

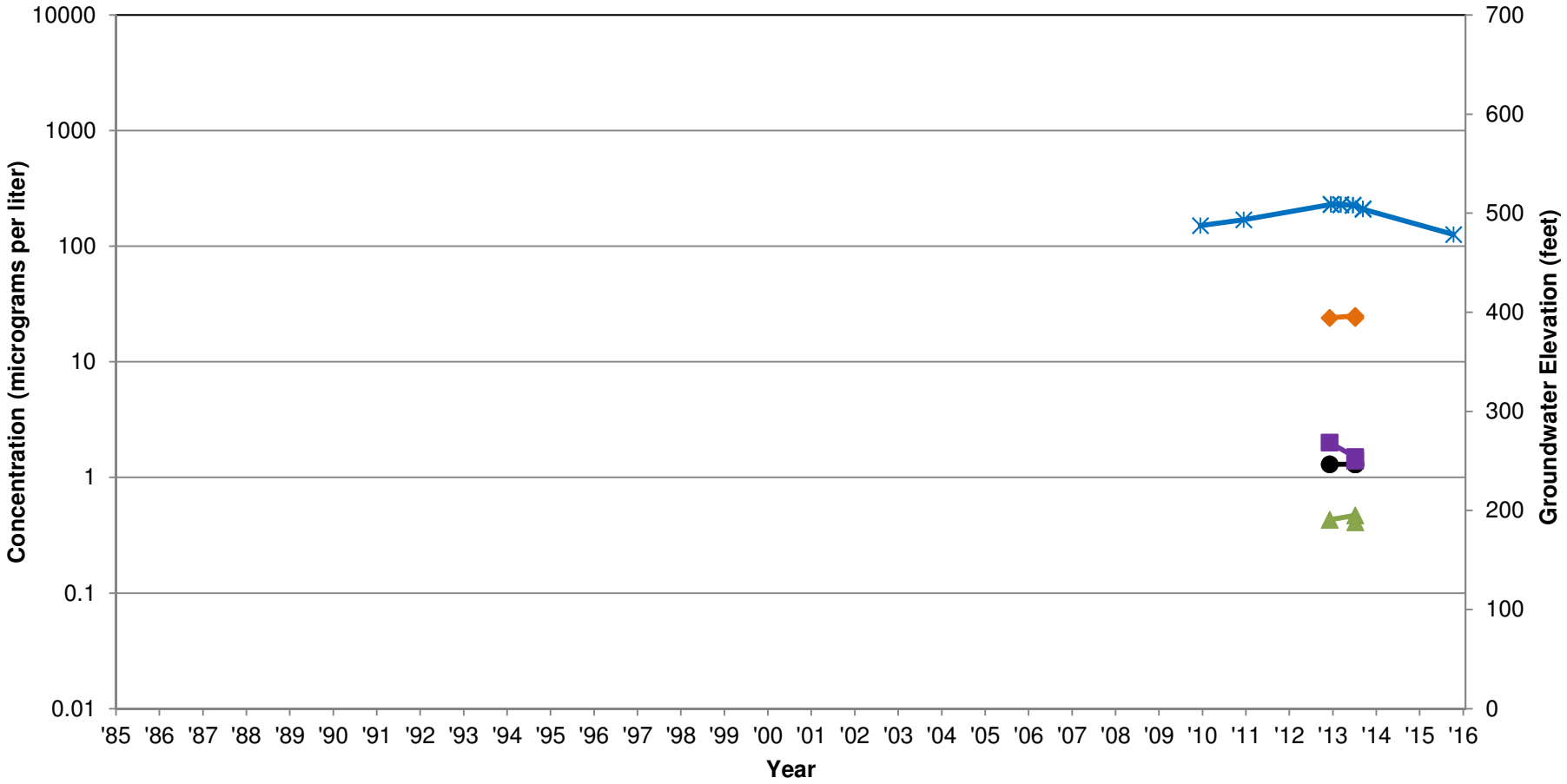

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Figure
C35

NH-C17-255

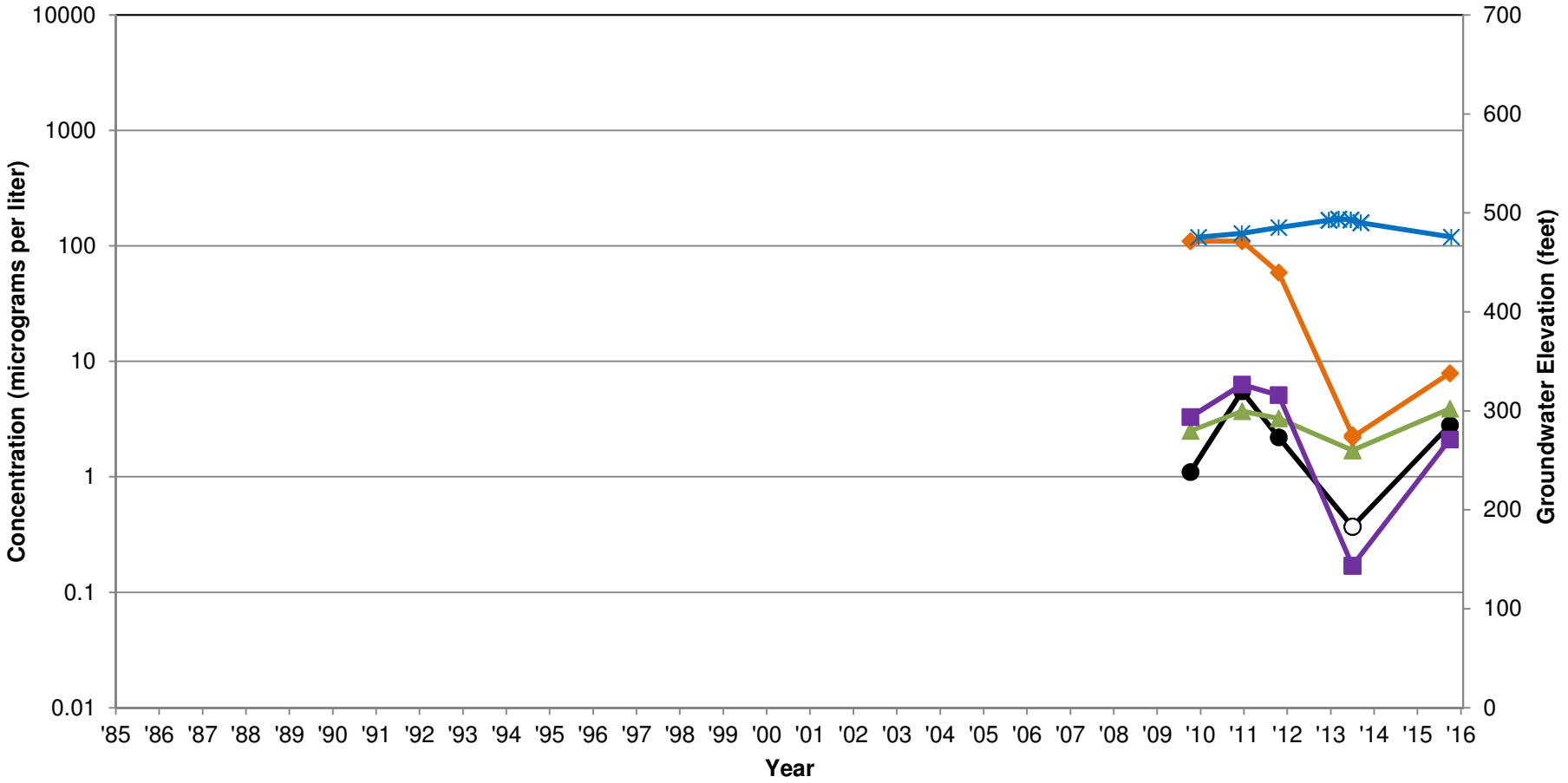

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Figure
C36

NH-C17-339 (A Zone)

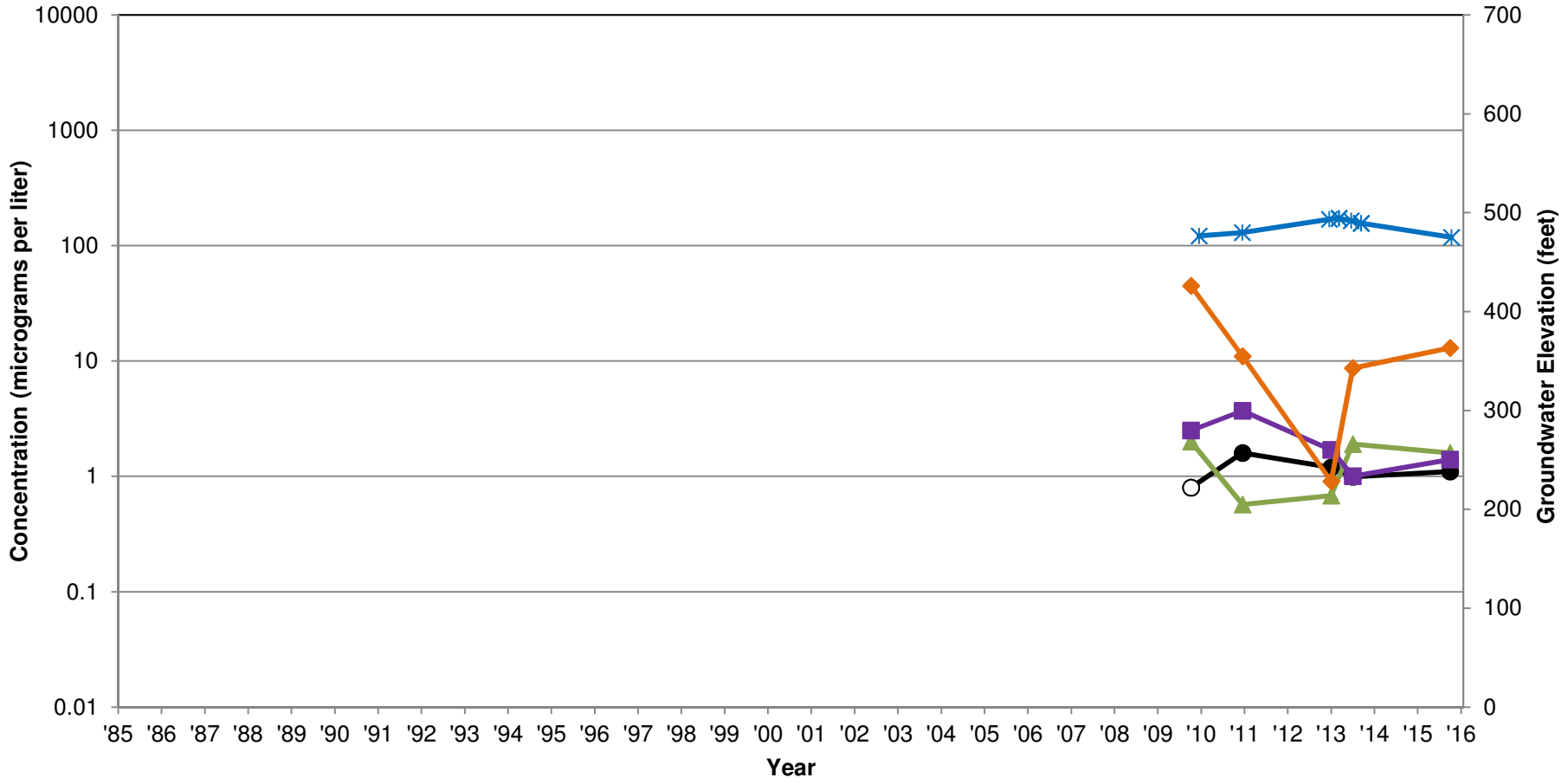

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Figure
C37

NH-C17-339 (B Zone)

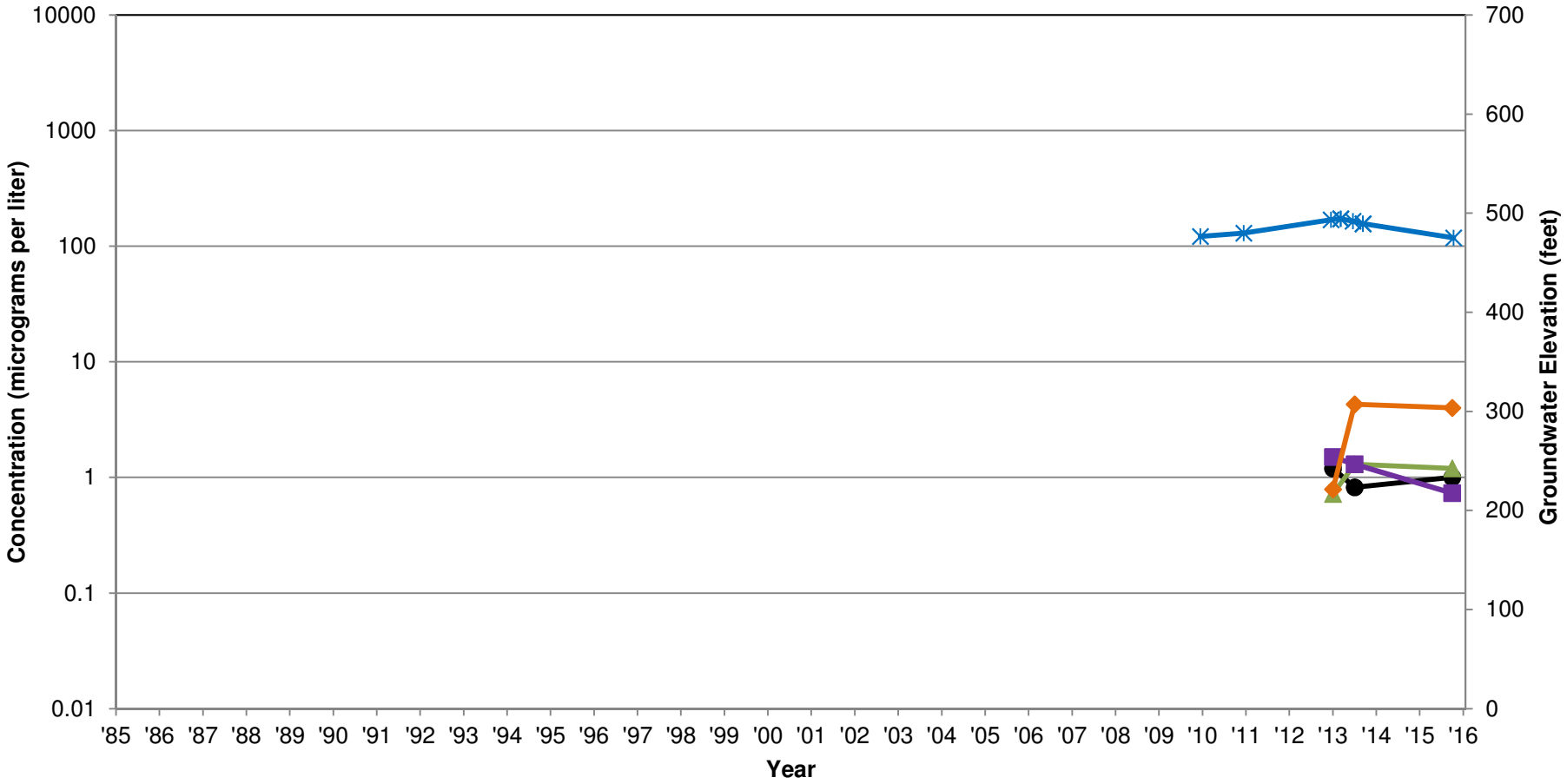

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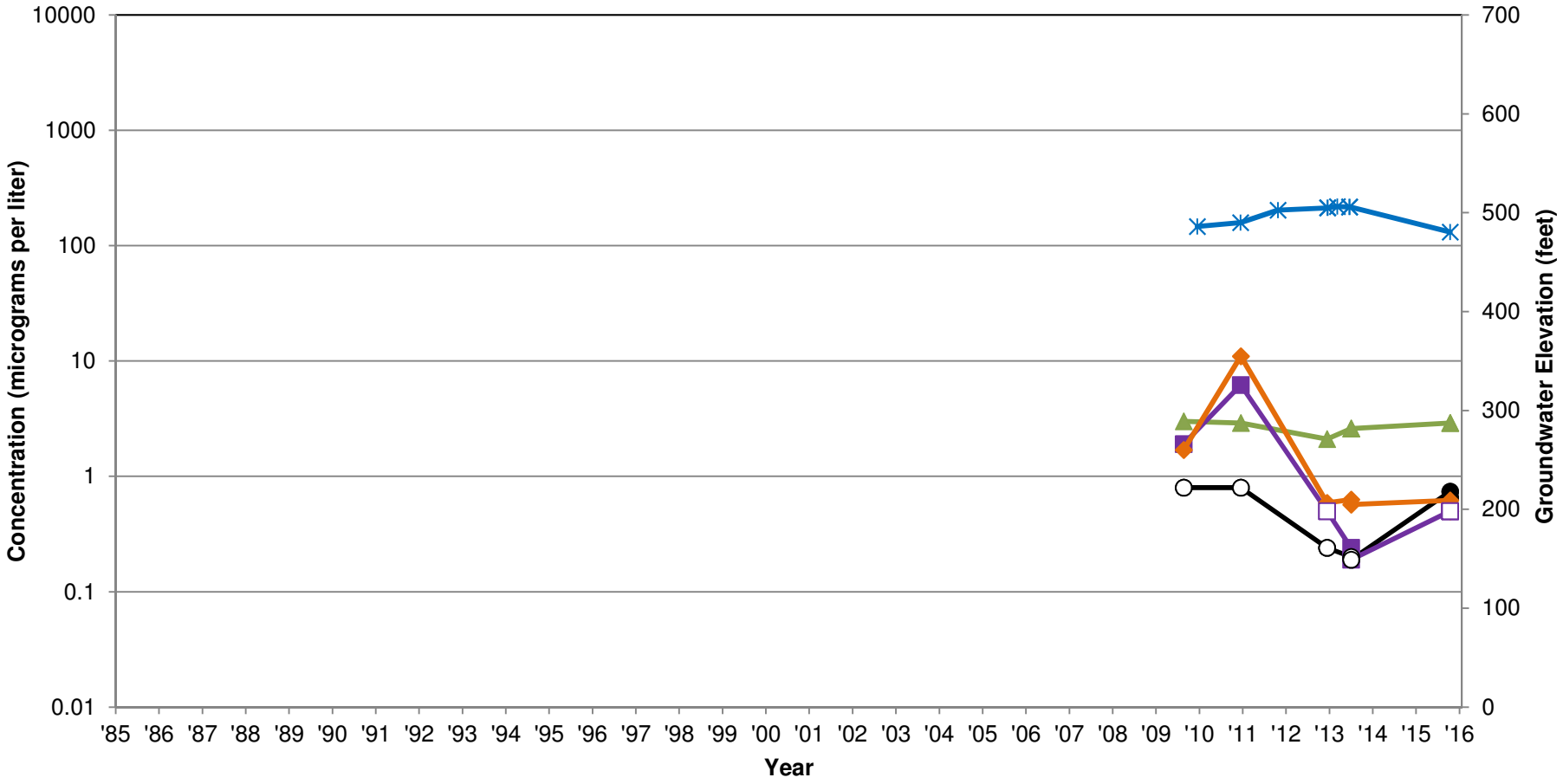
Figure
C38

NH-C18-270



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C39

NH-C18-365 (A Zone)

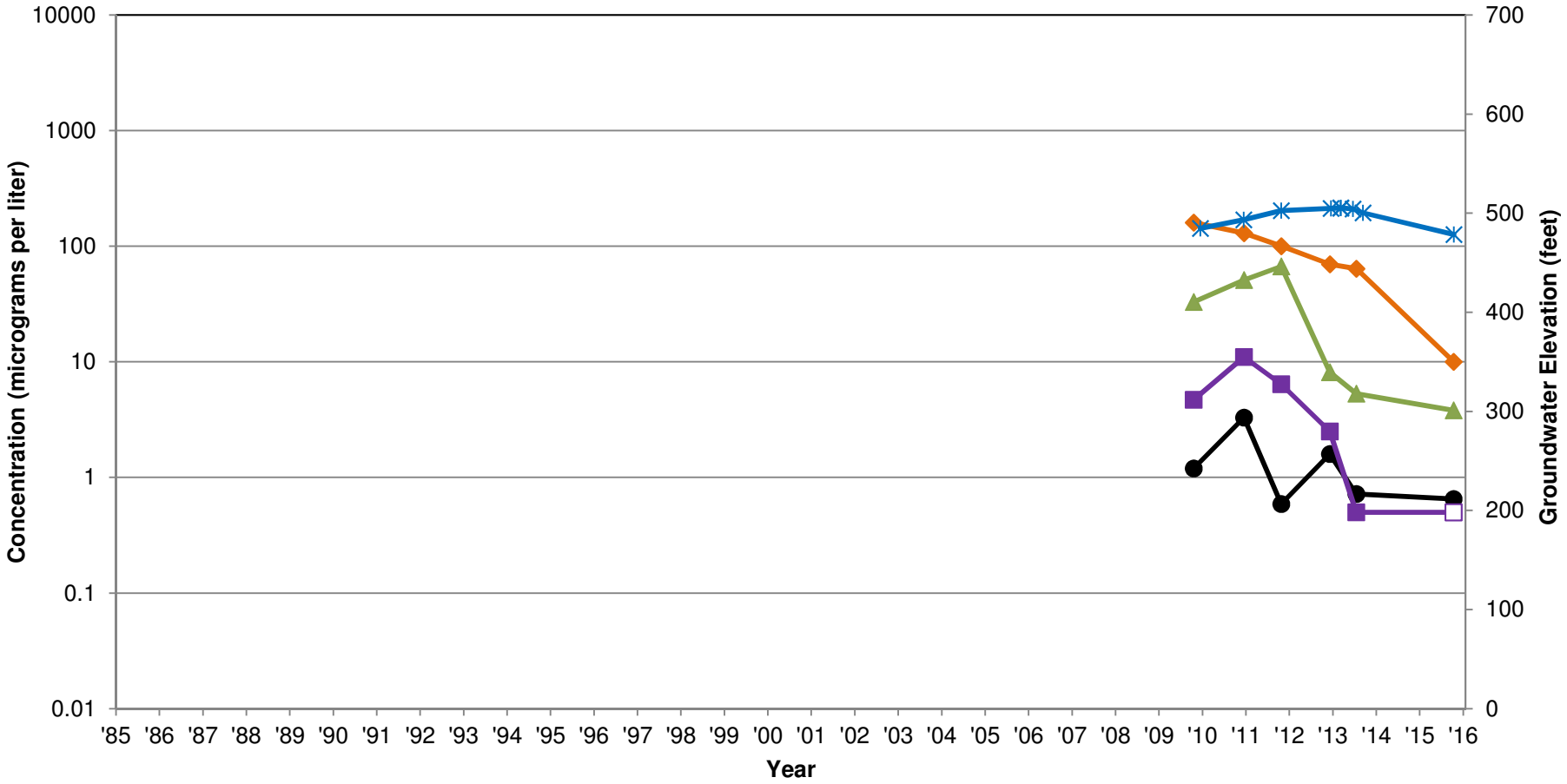

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Figure
C40

NH-C18-365 (B Zone)

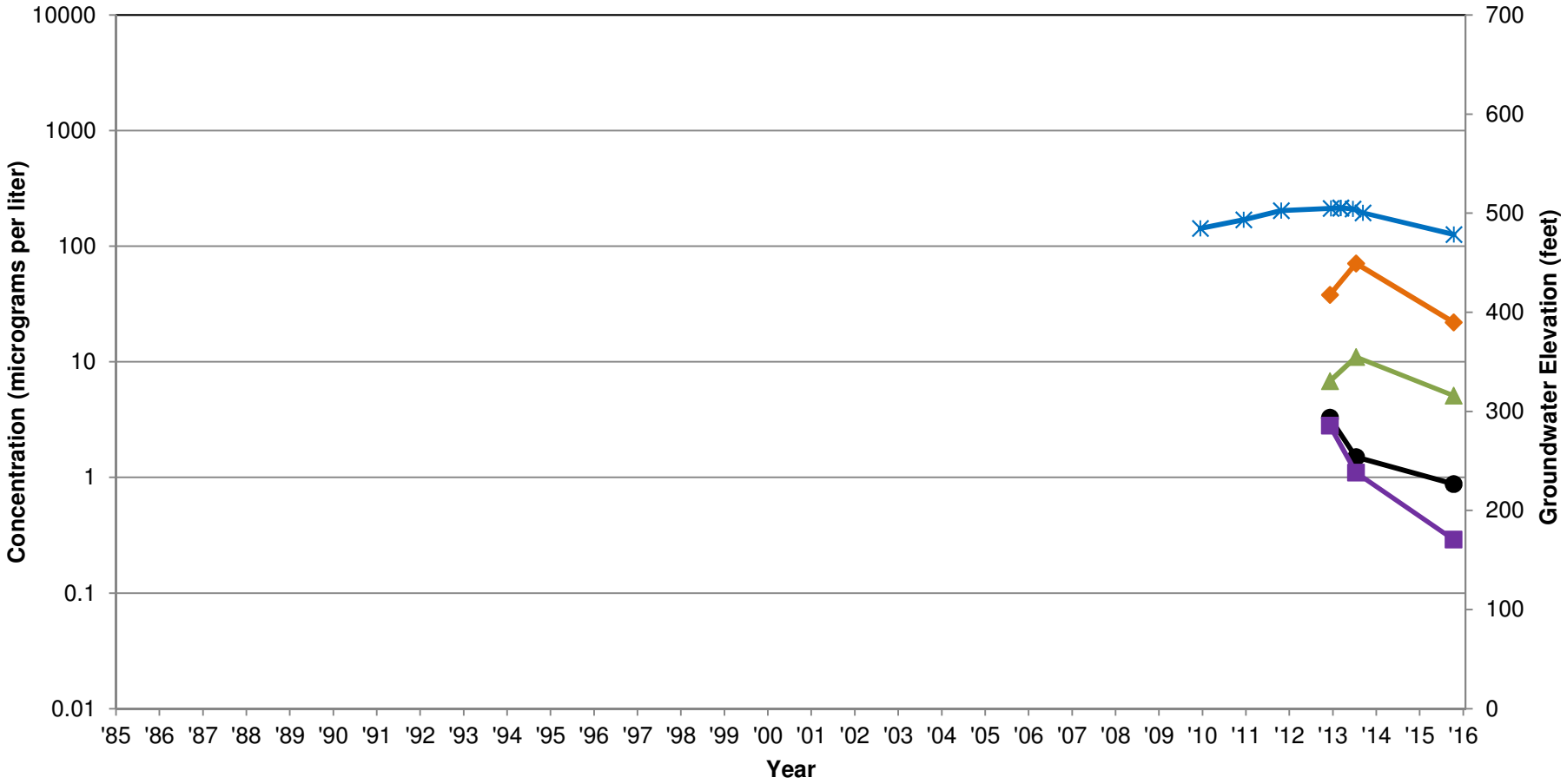

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Figure
C41

NH-C19-290

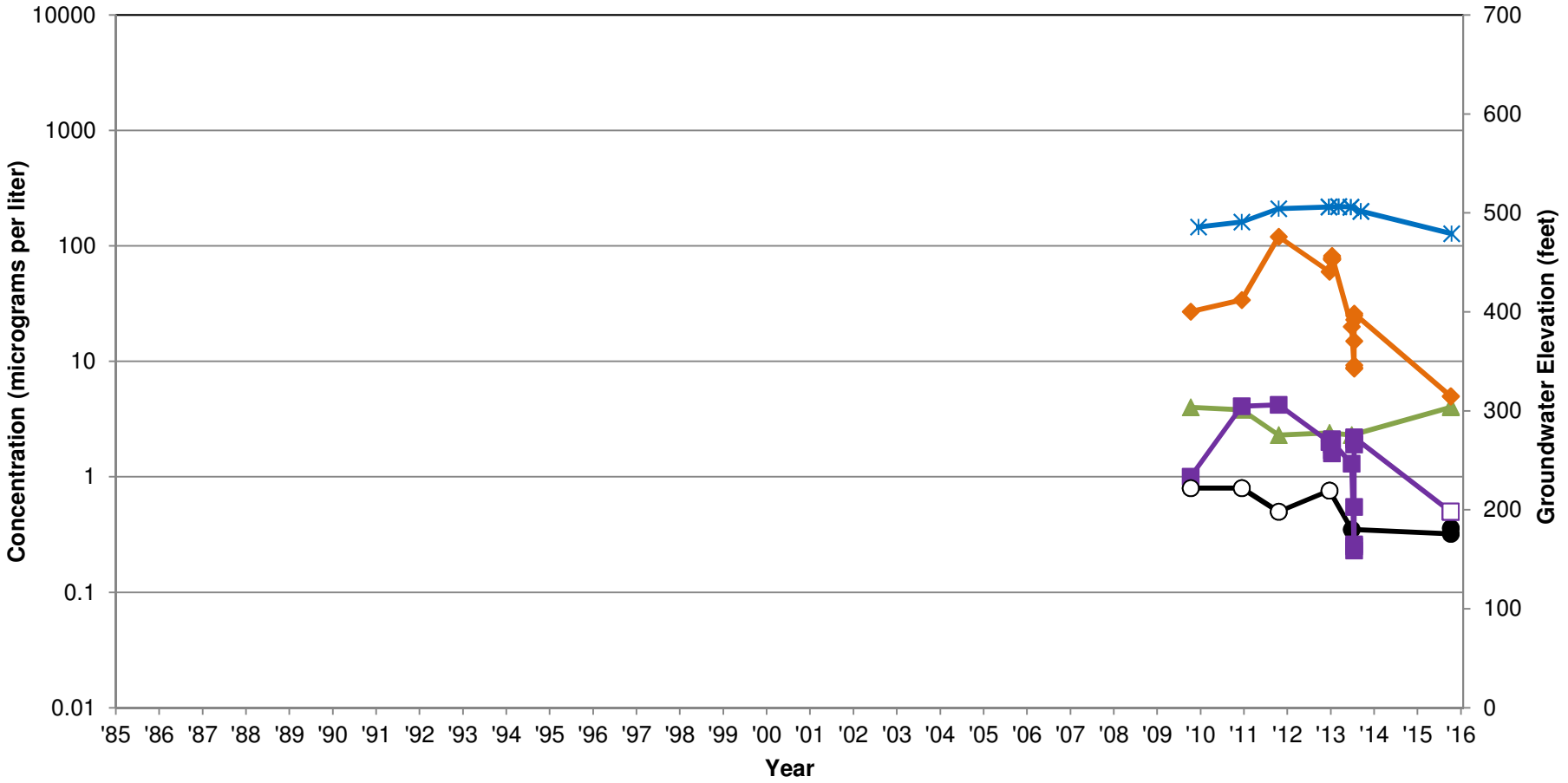

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Figure
C42

NH-C19-360 (A Zone)

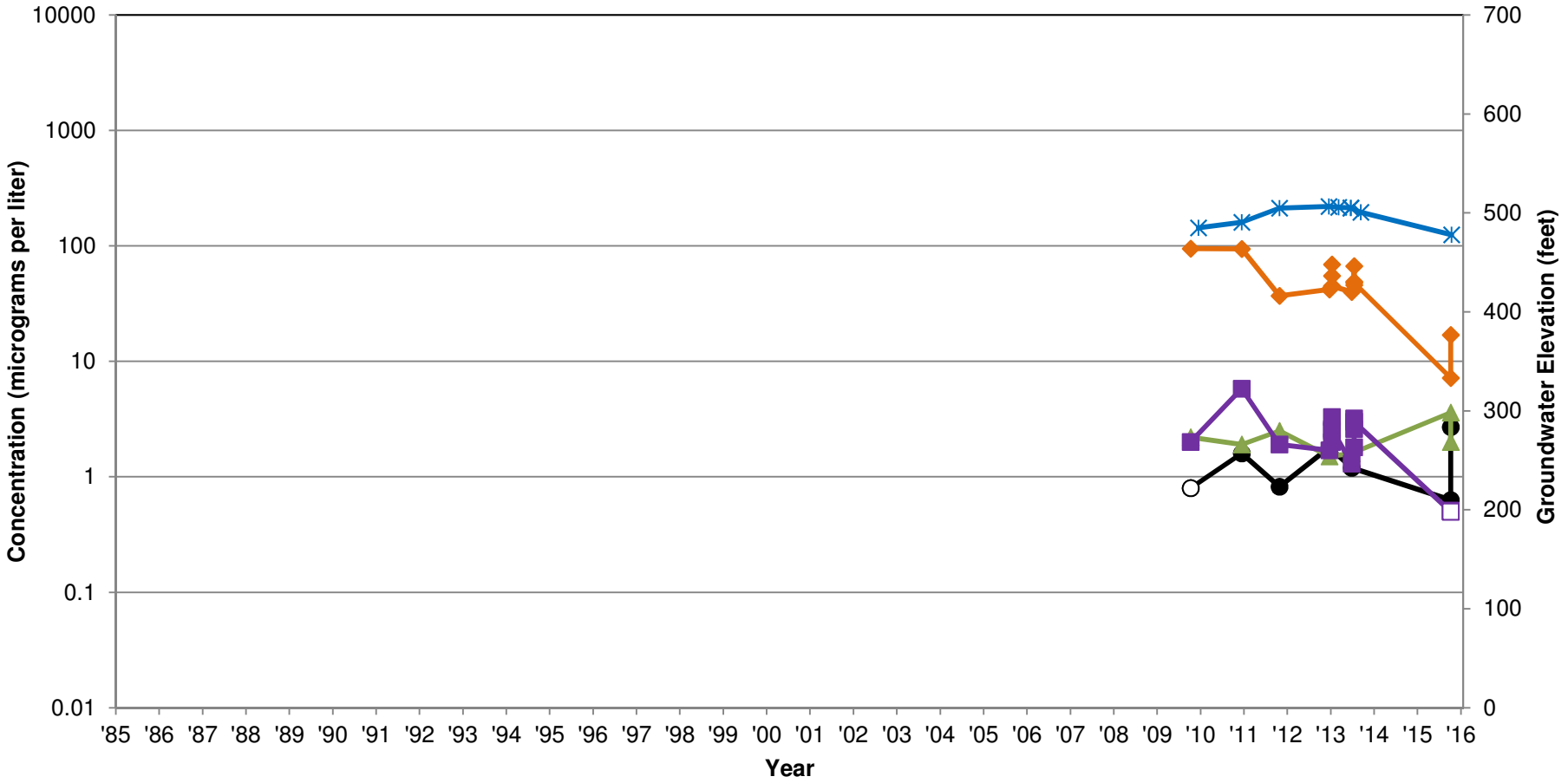

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Figure
C43

NH-C19-360 (B Zone)

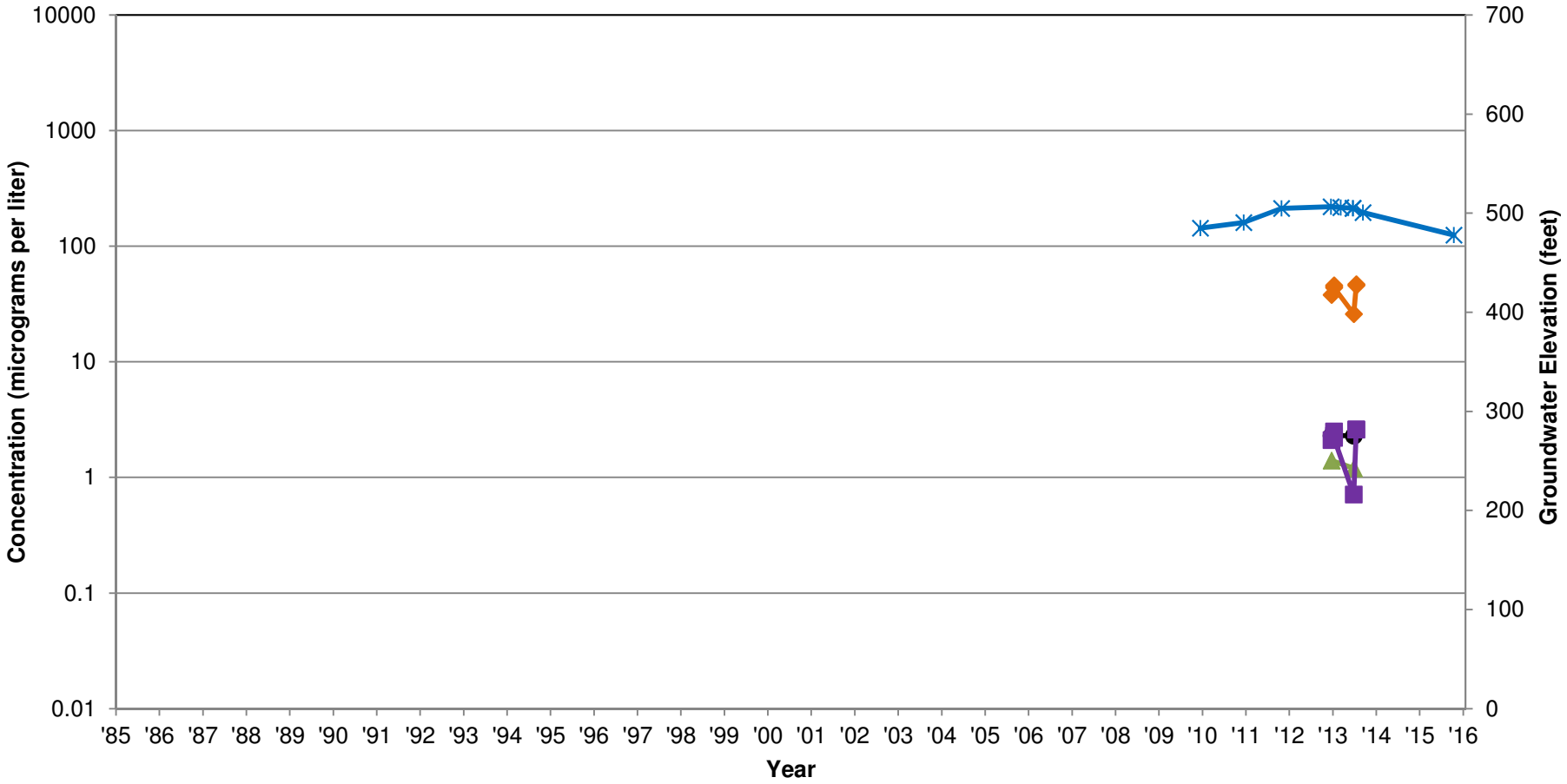

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Figure
C44

NH-C20-380 (A Zone)

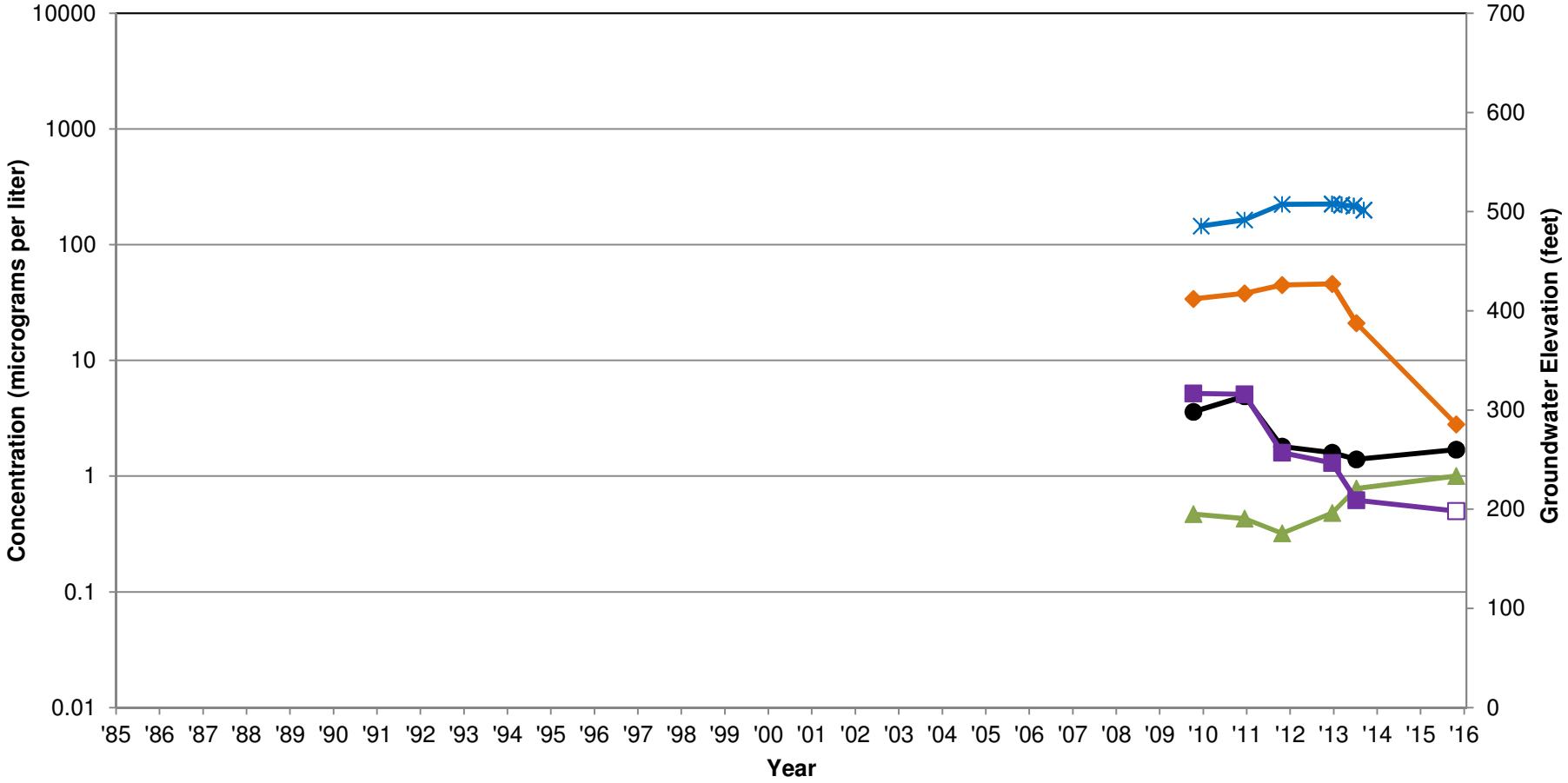

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Figure
C45

NH-C20-380 B Zone

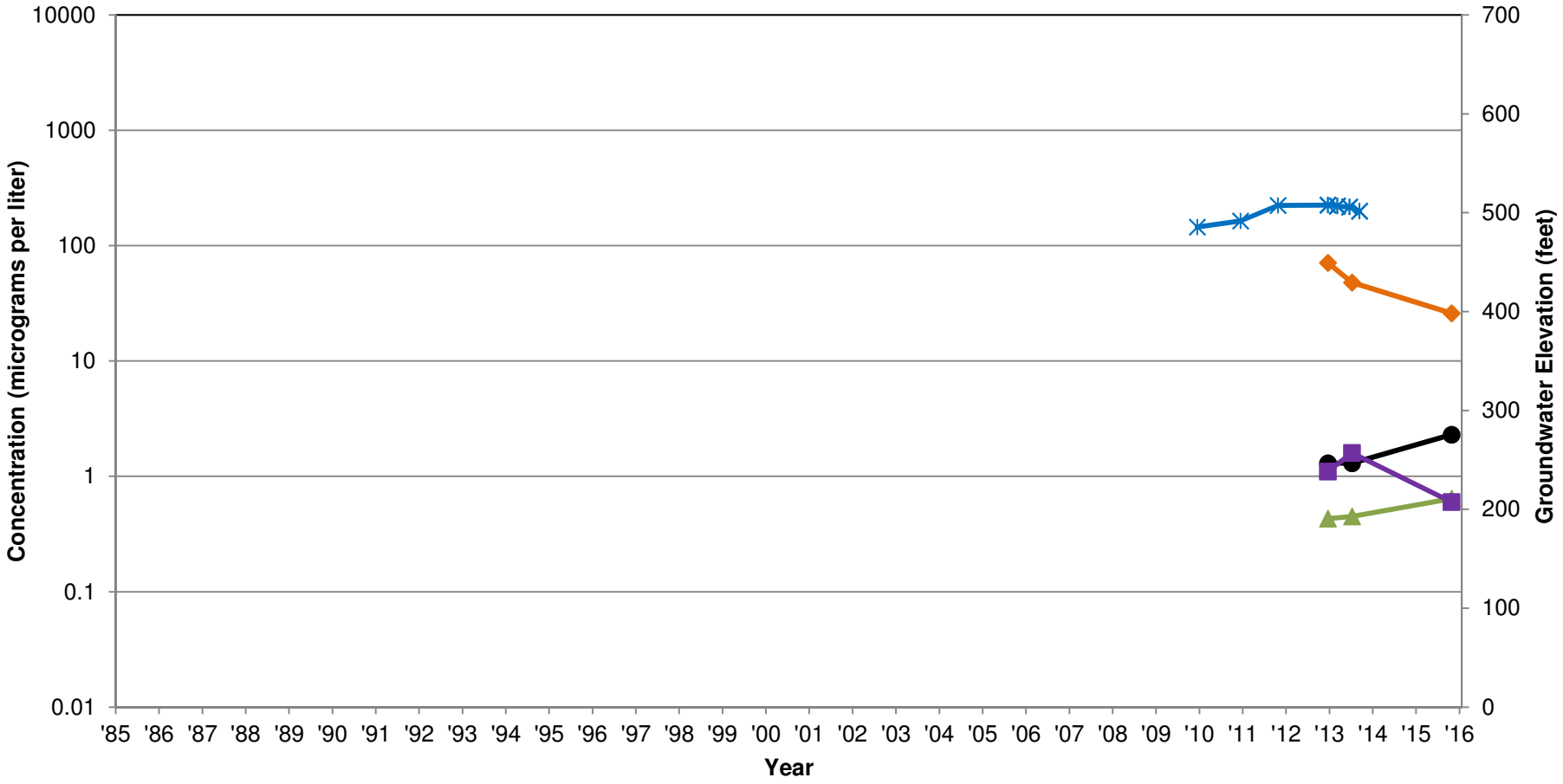

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Figure
C46

NH-C21-260

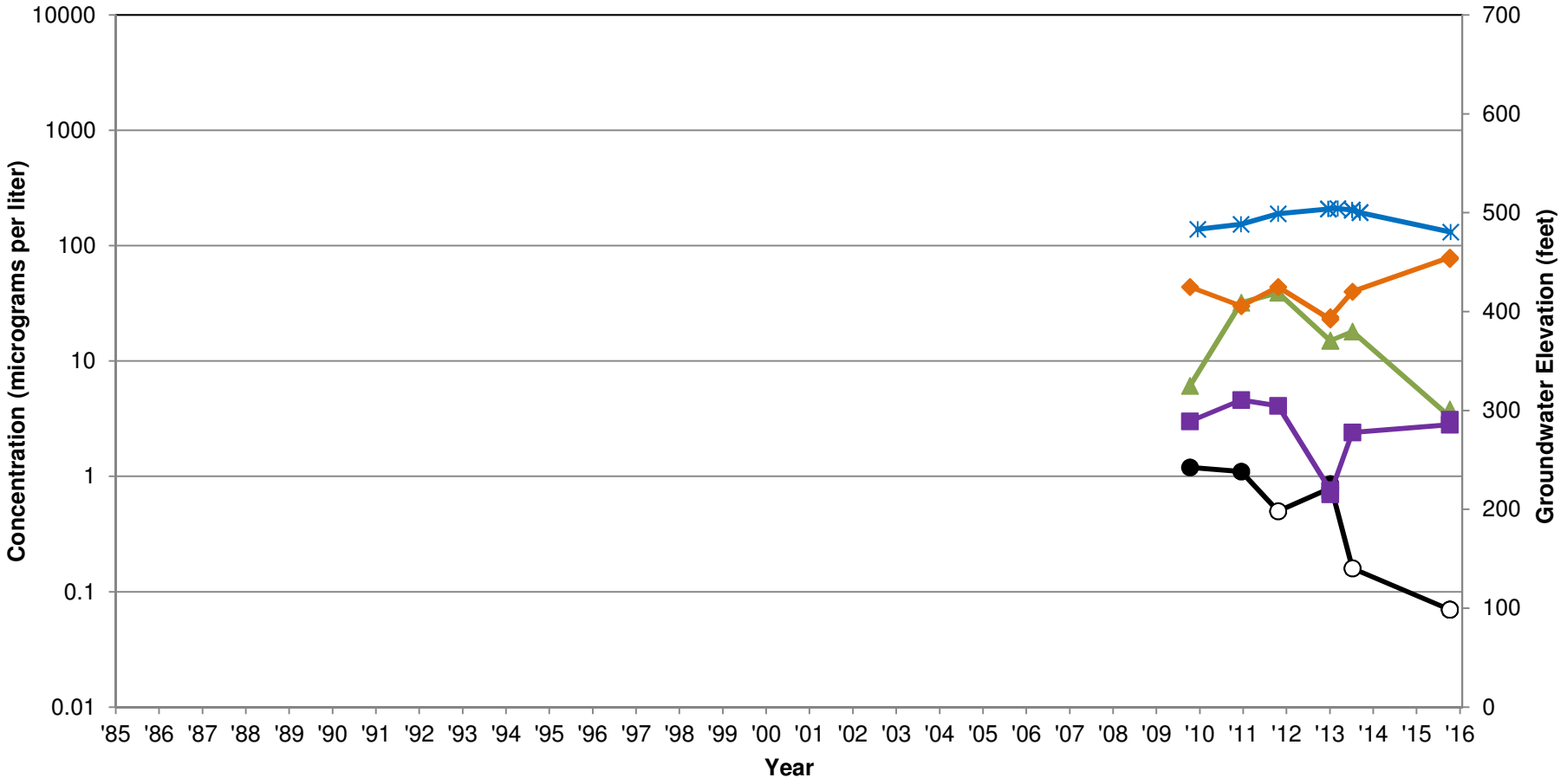

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Figure
C47

NH-C21-340 (A Zone)

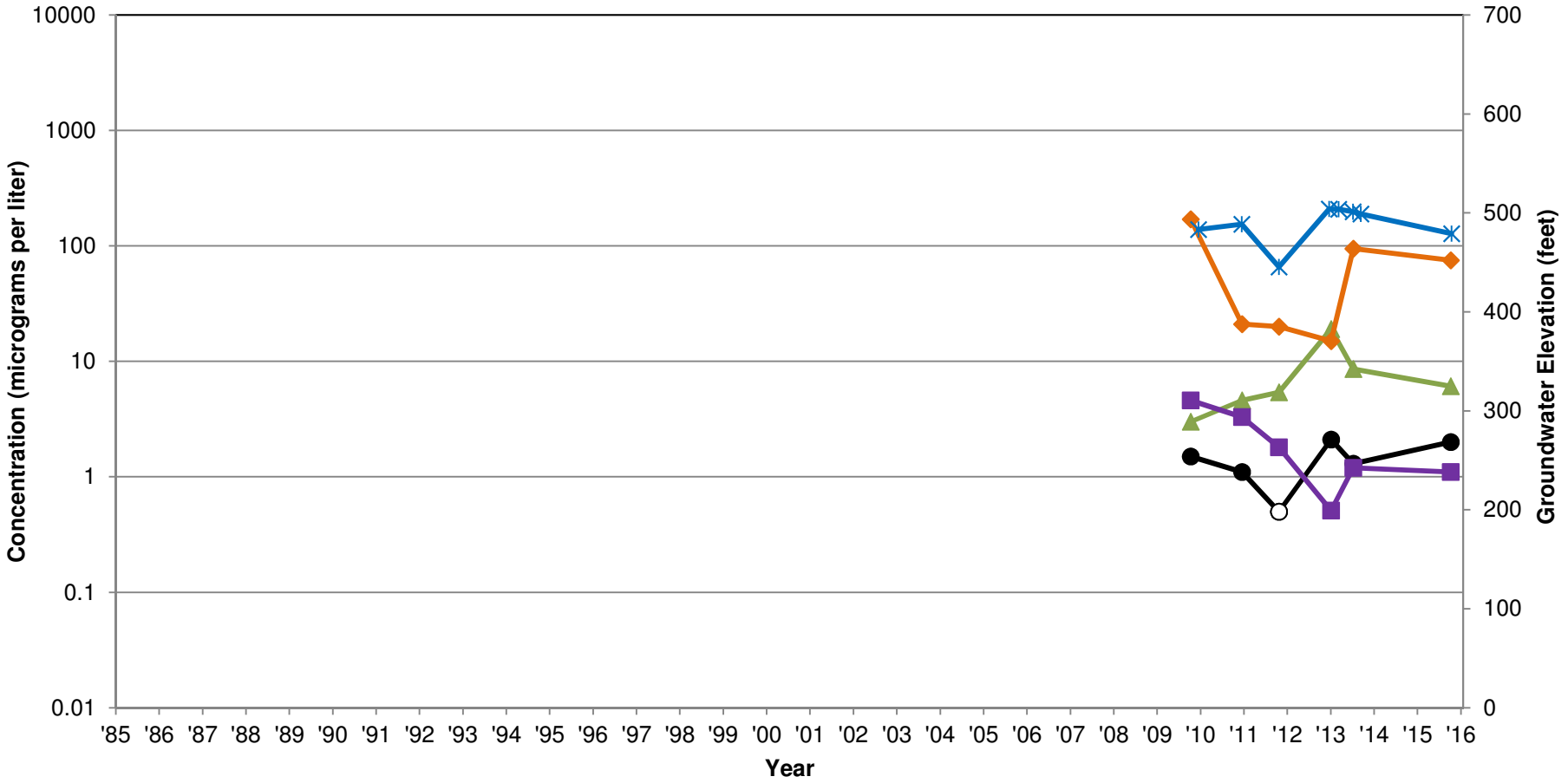

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Figure
C48

NH-C21-340 (B Zone)

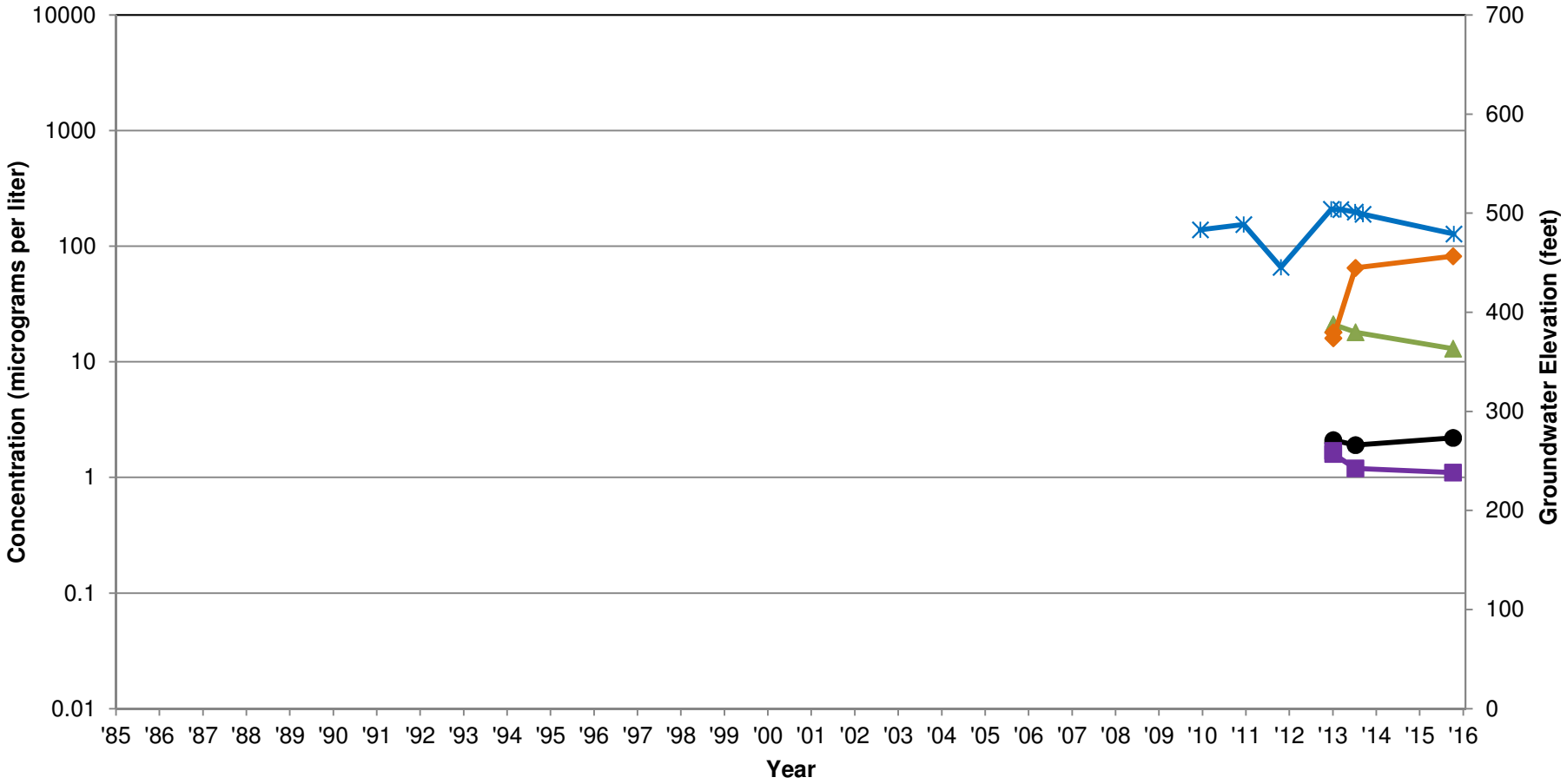

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Figure
C49

NH-C23-310

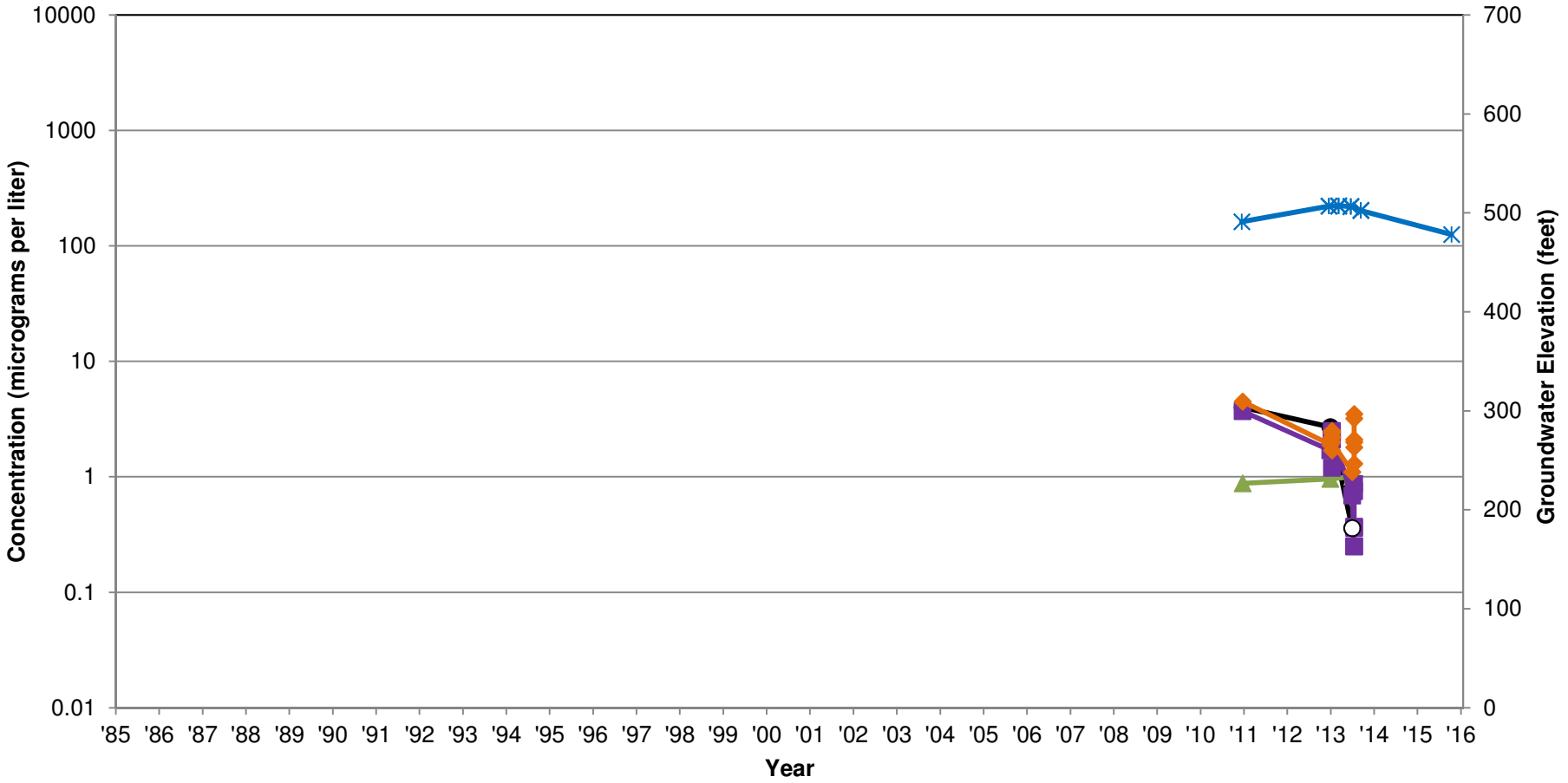

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Figure
C50

NH-C23-400

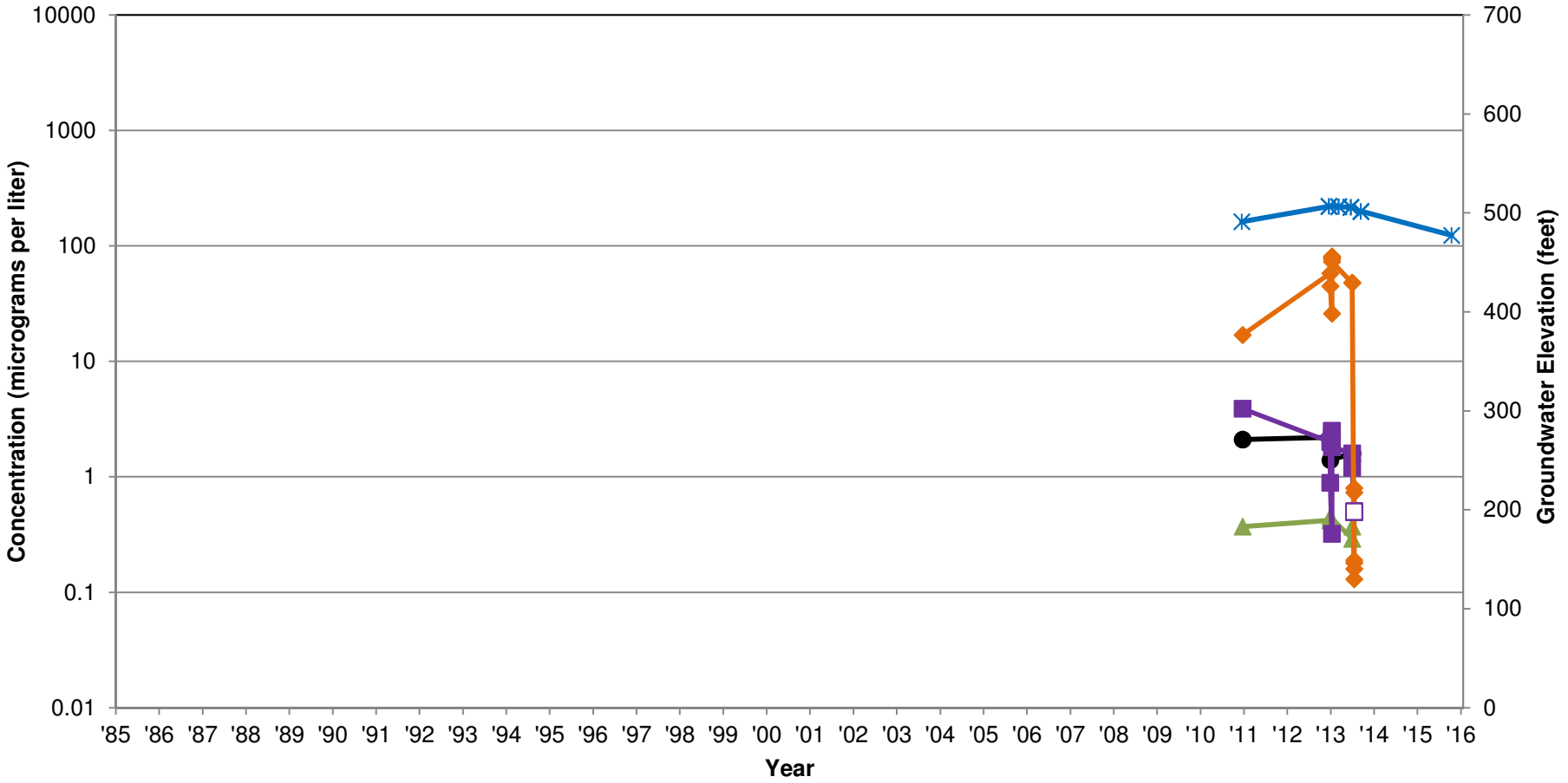

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Figure
C51

NH-C24-305

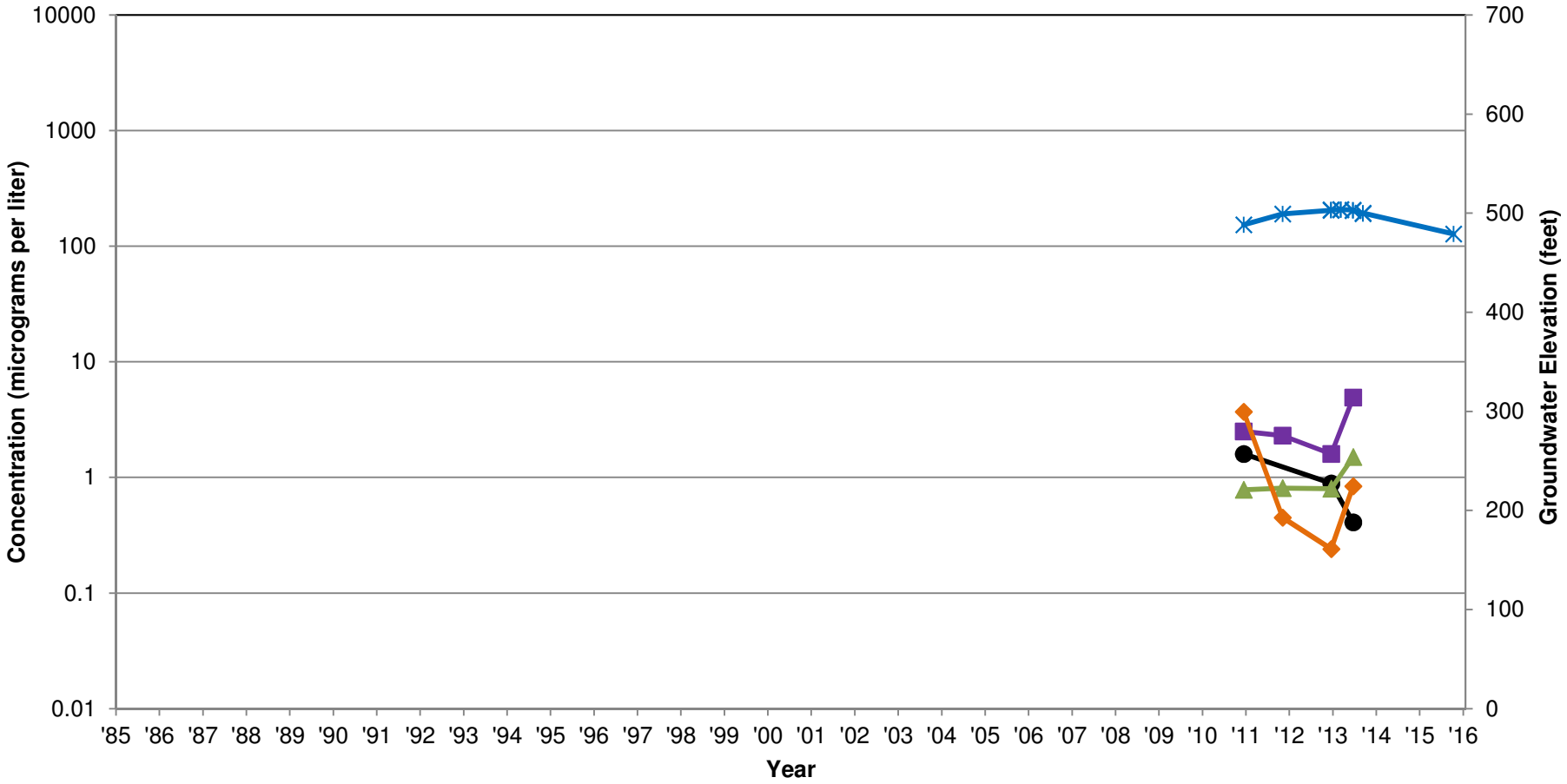

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Figure
C52

NH-C26-310

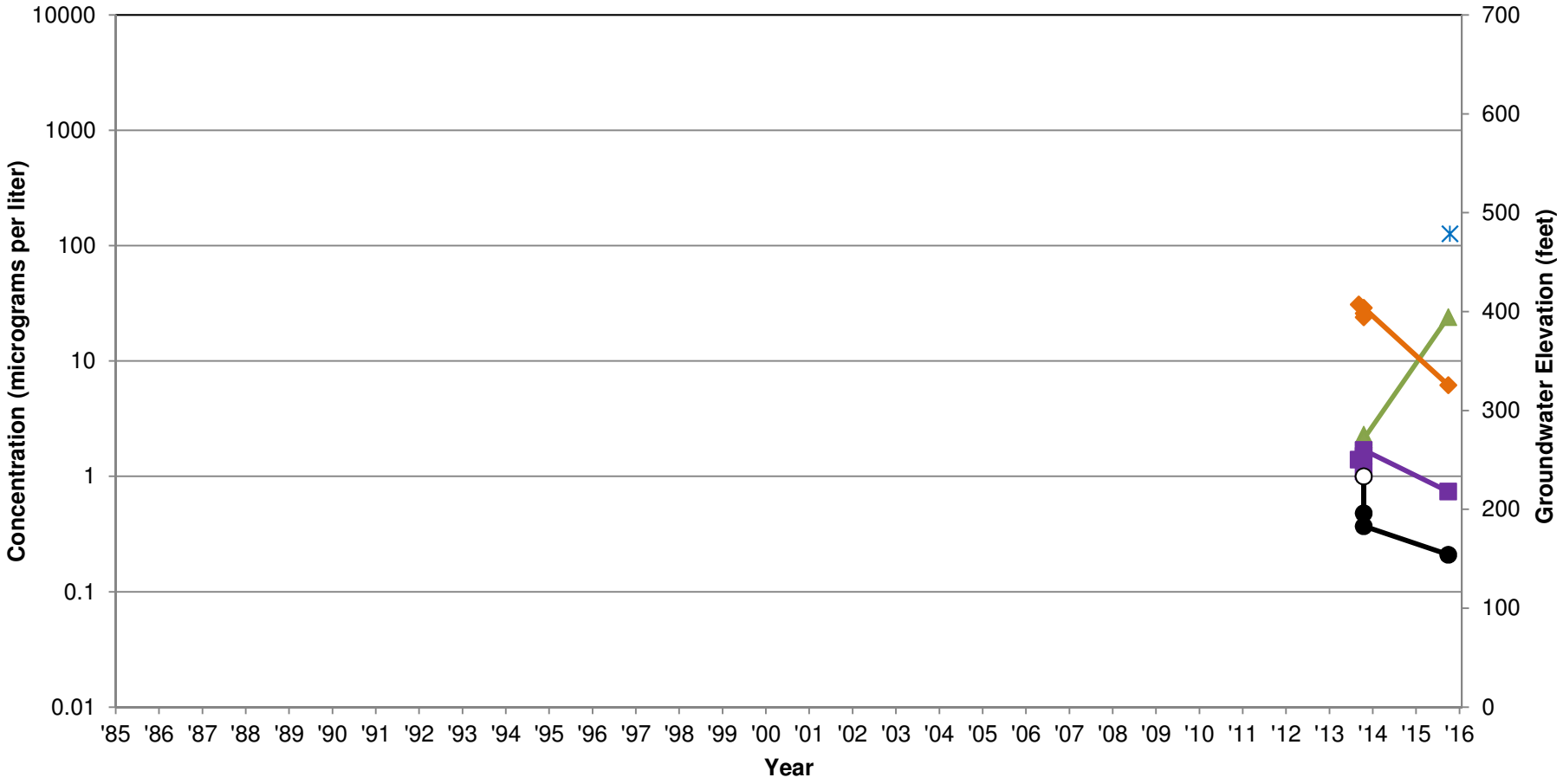

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Figure
C53

NH-C26-385

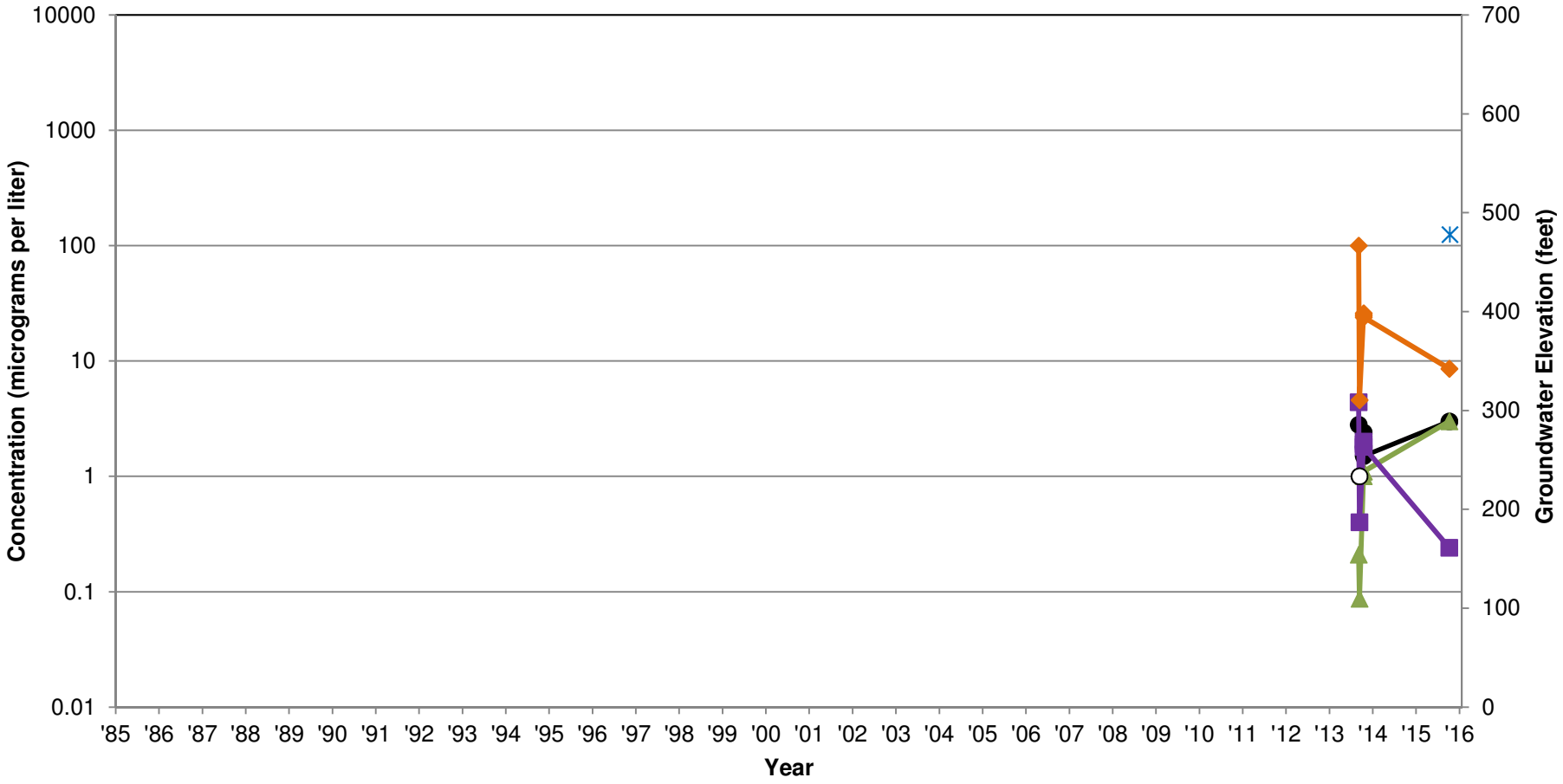

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Figure
C54

NH-C27-290

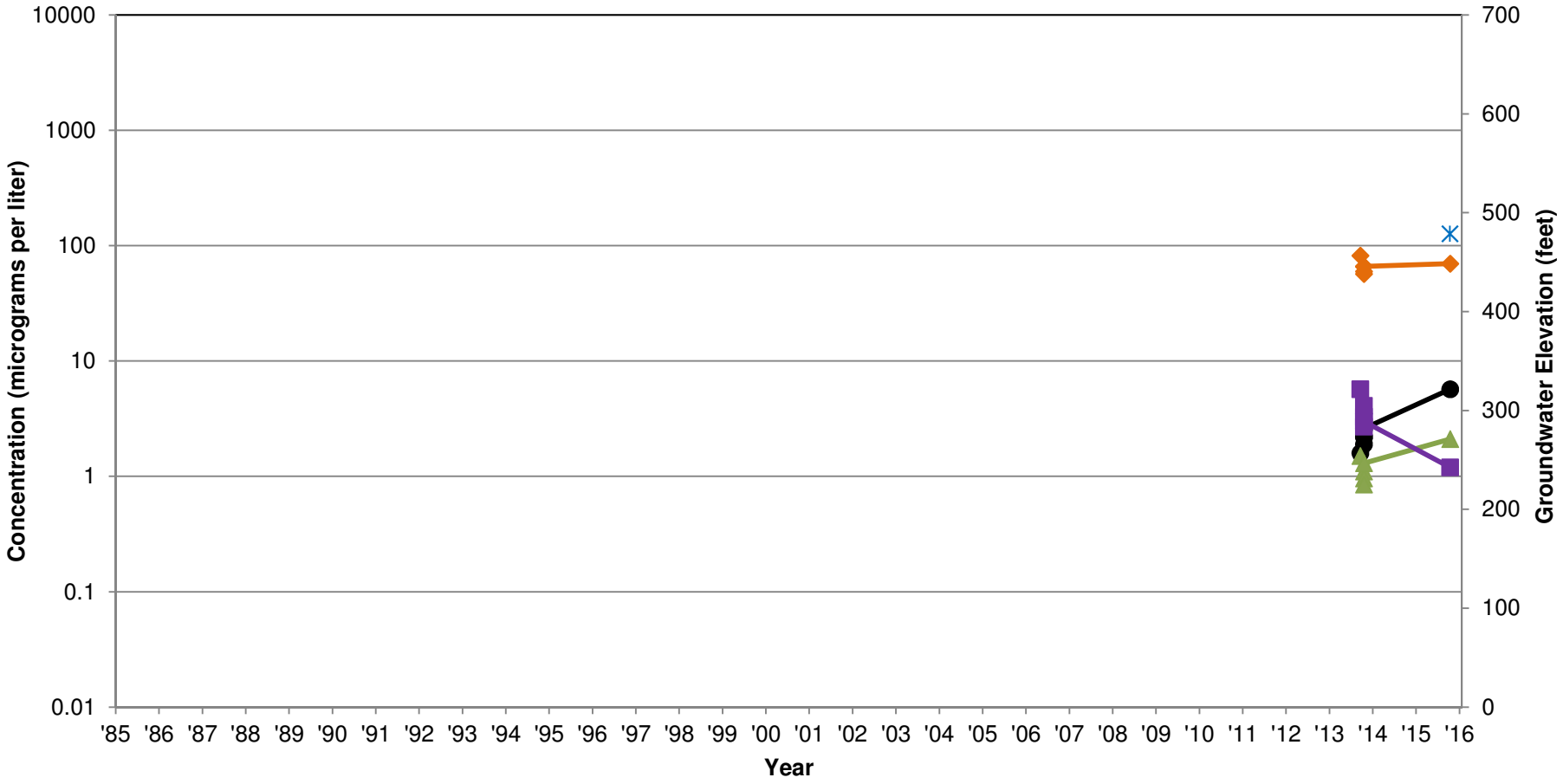

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Figure
C55

NH-C28-290

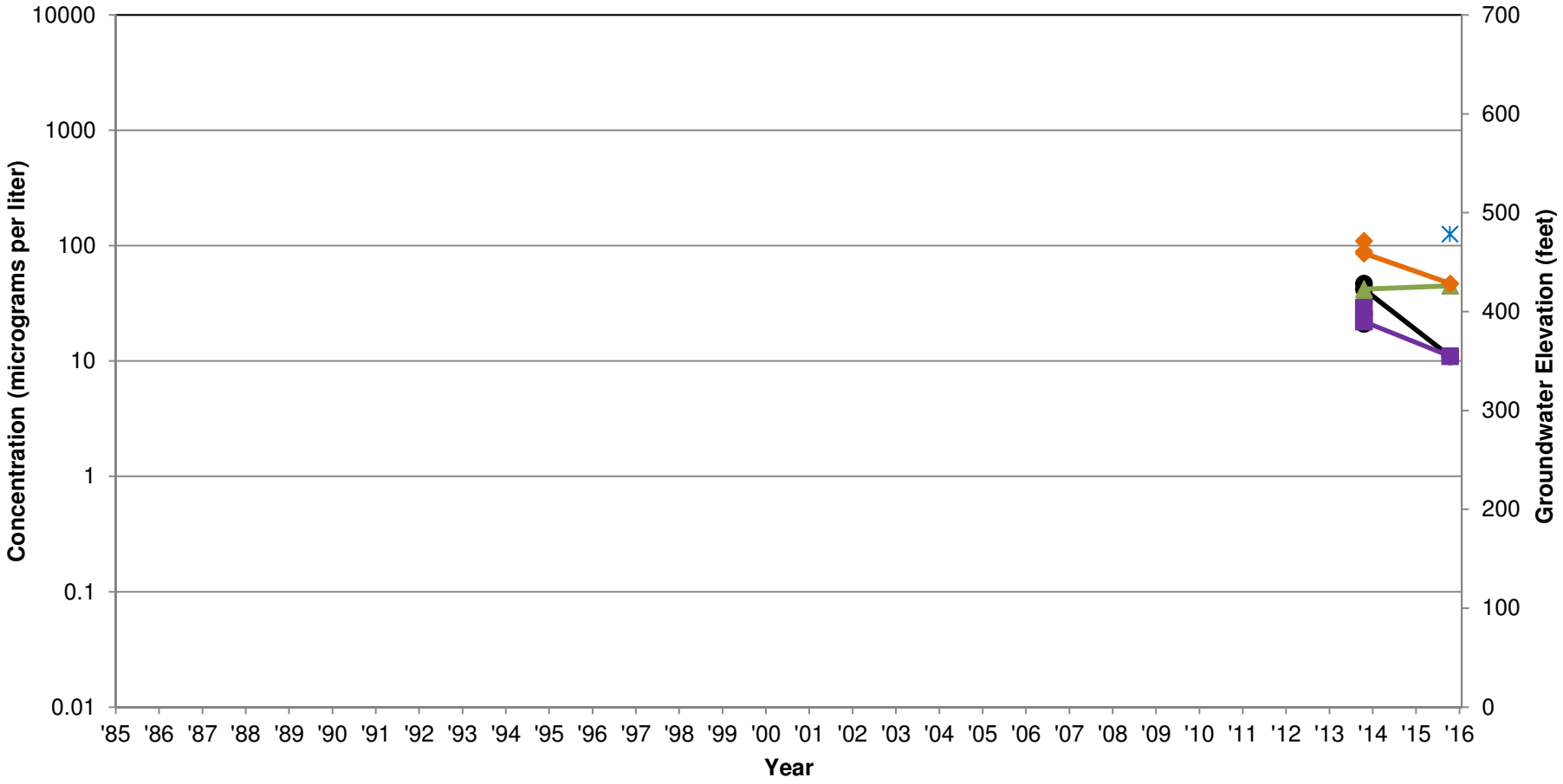

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Figure
C56

NHE-1

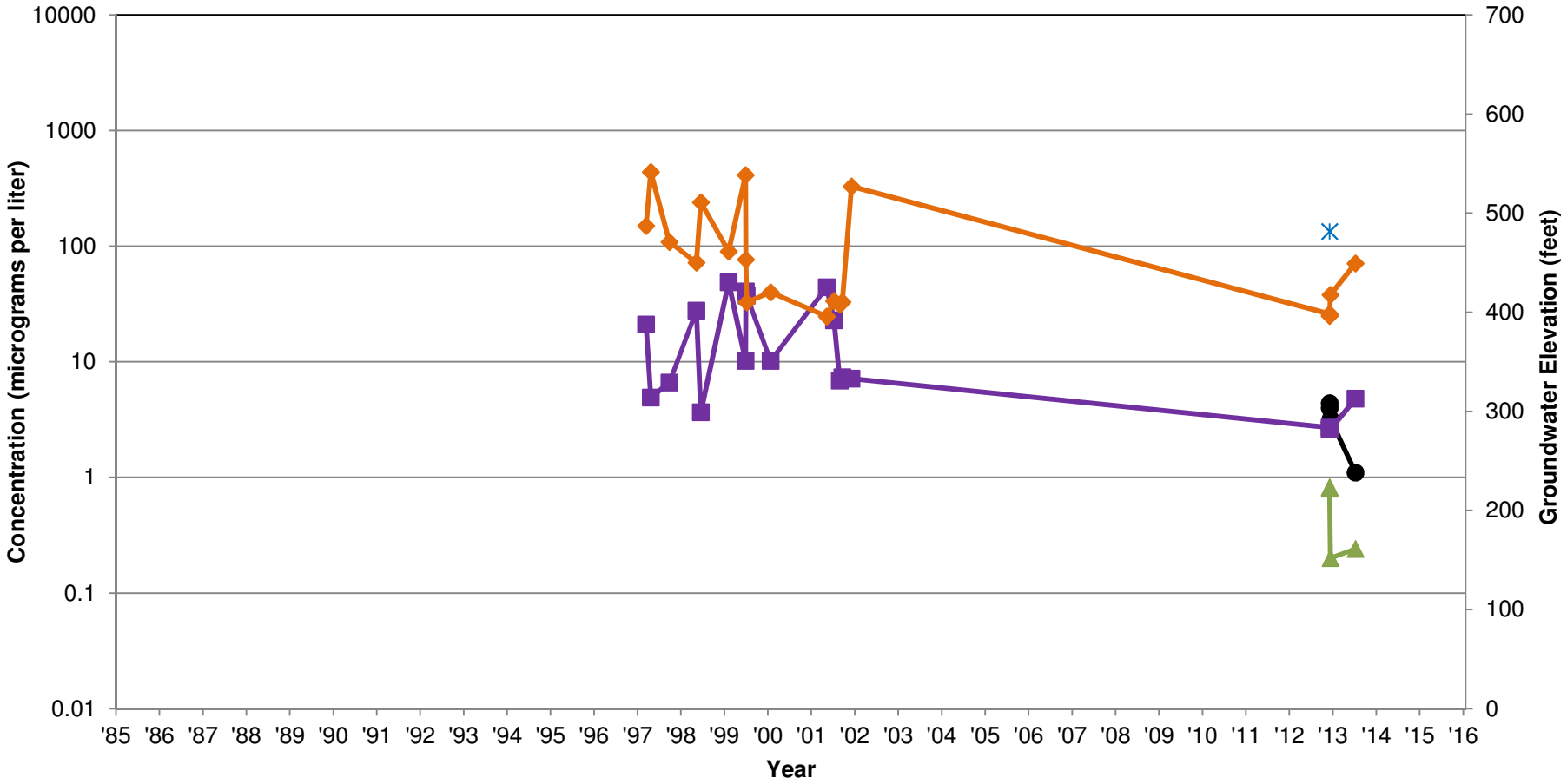

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Figure
C57

NHE-2

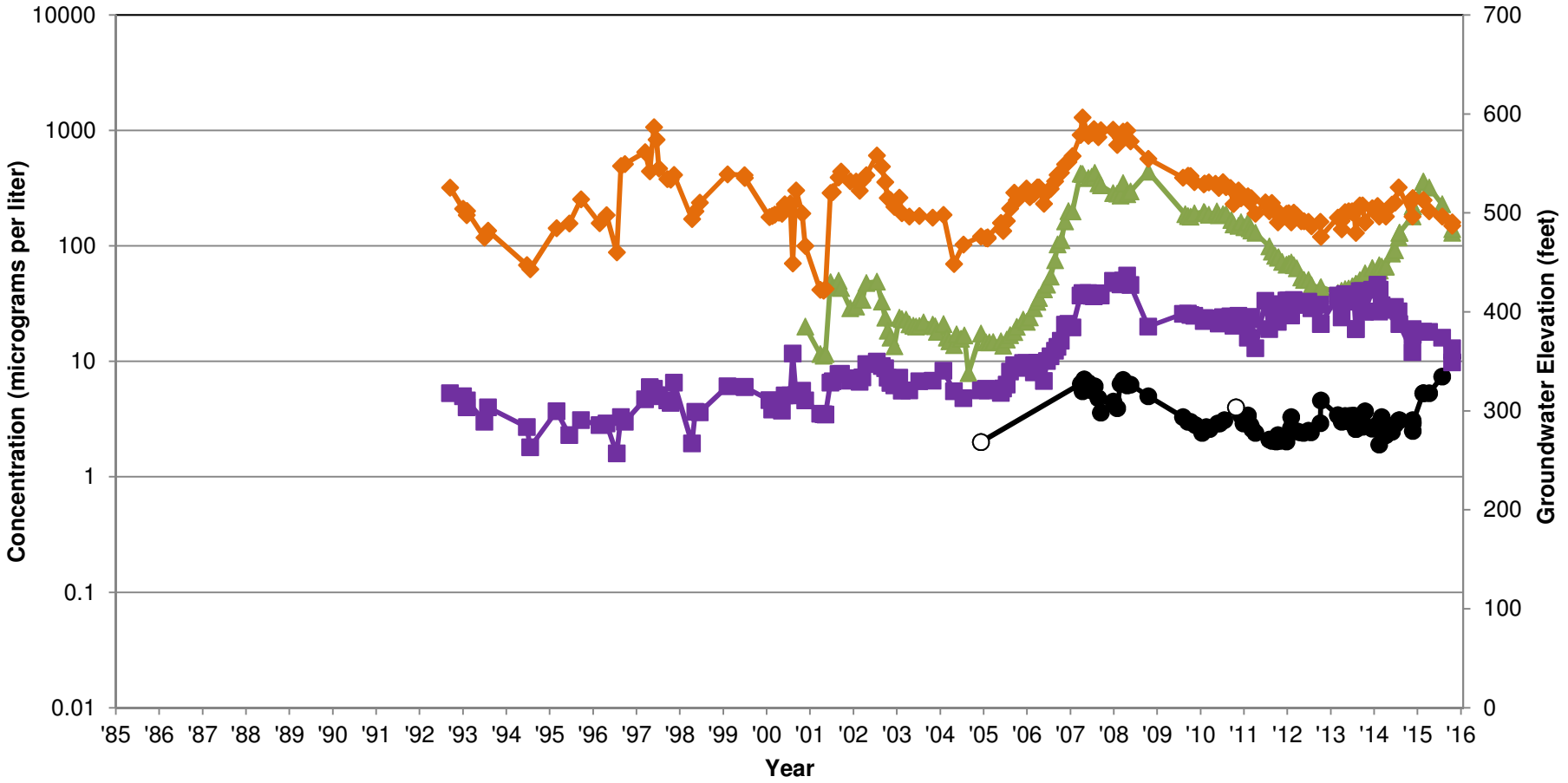

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Figure
C58

NHE-3

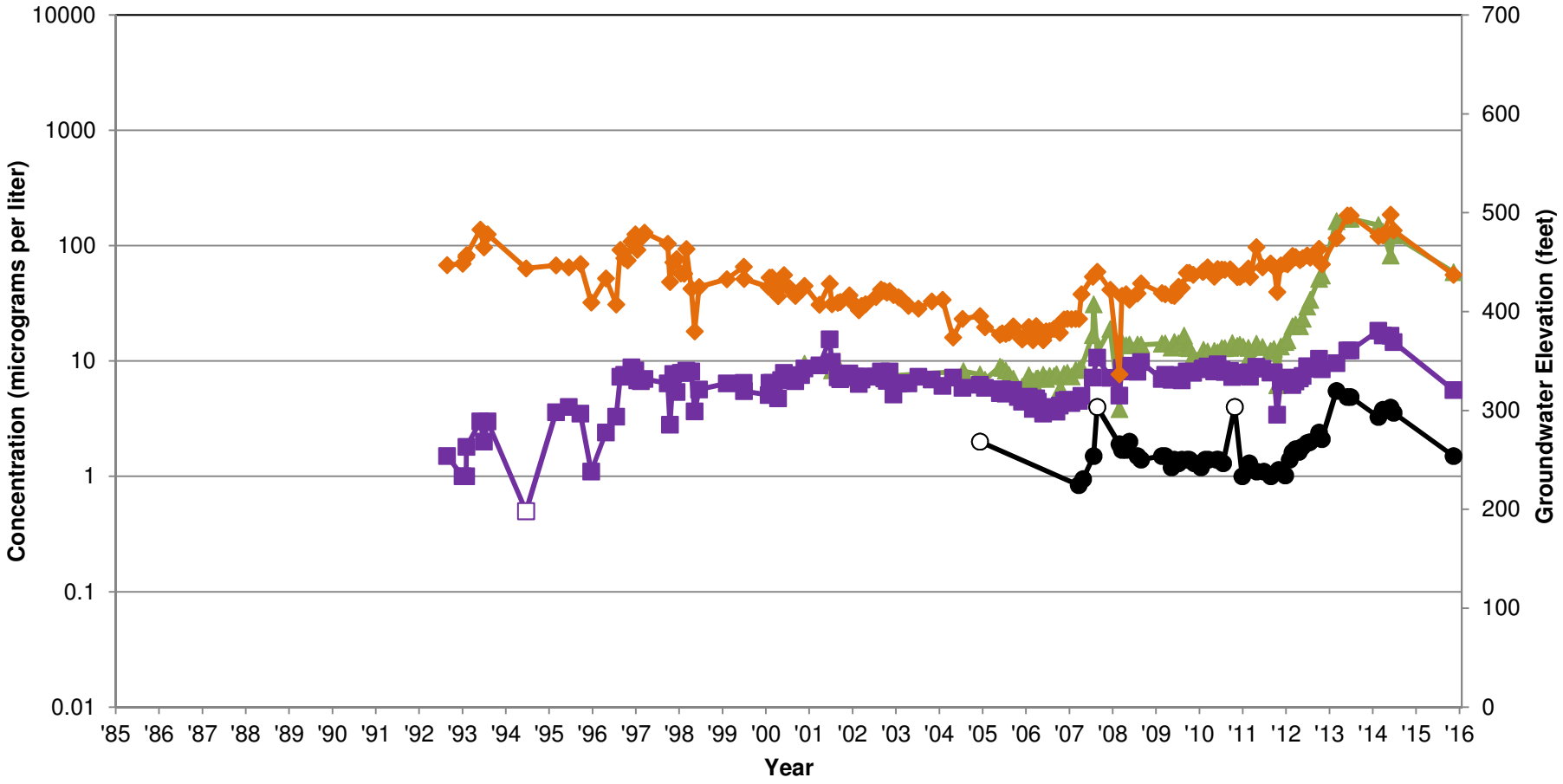

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Figure
C59

NHE-4

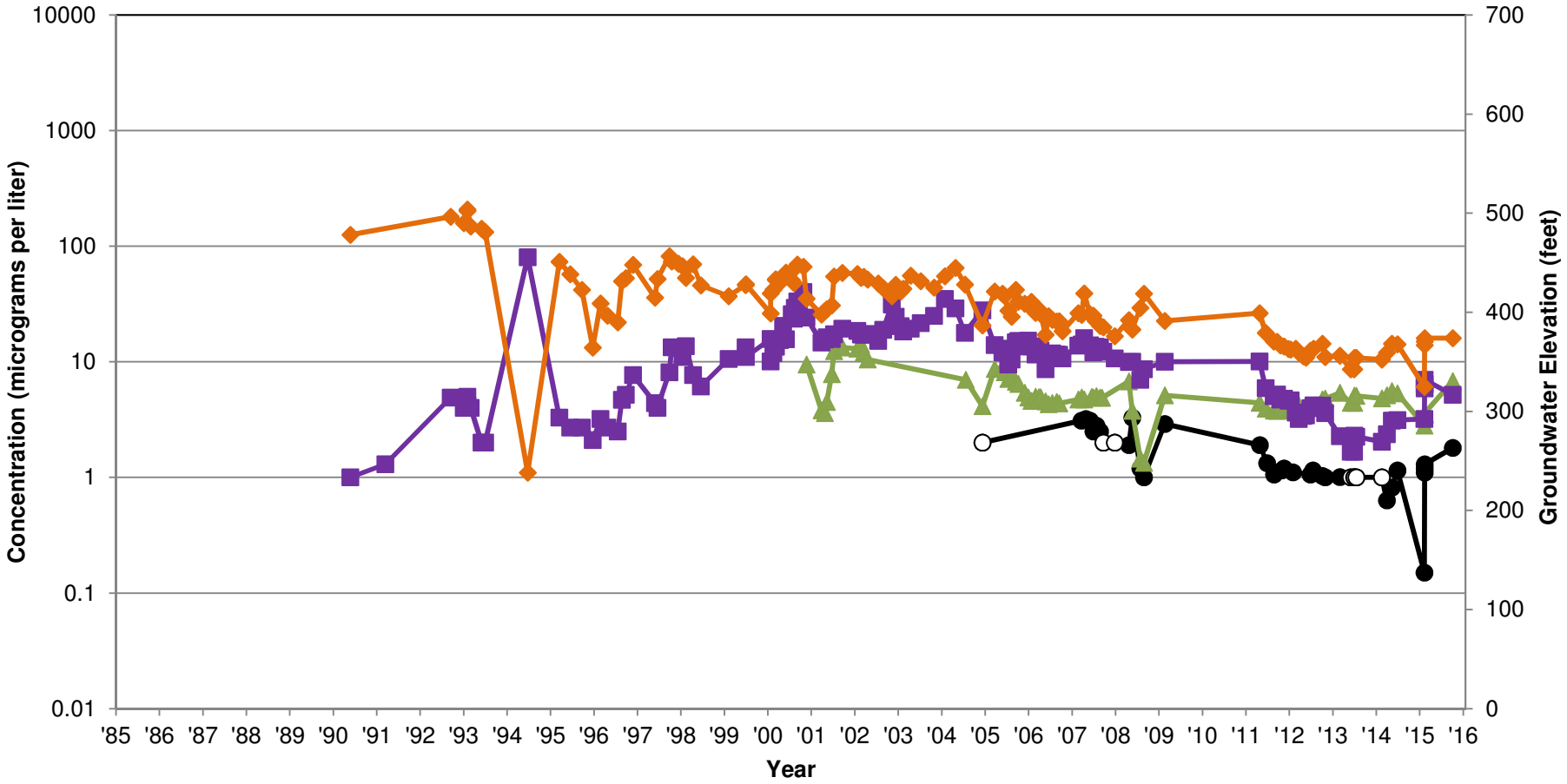

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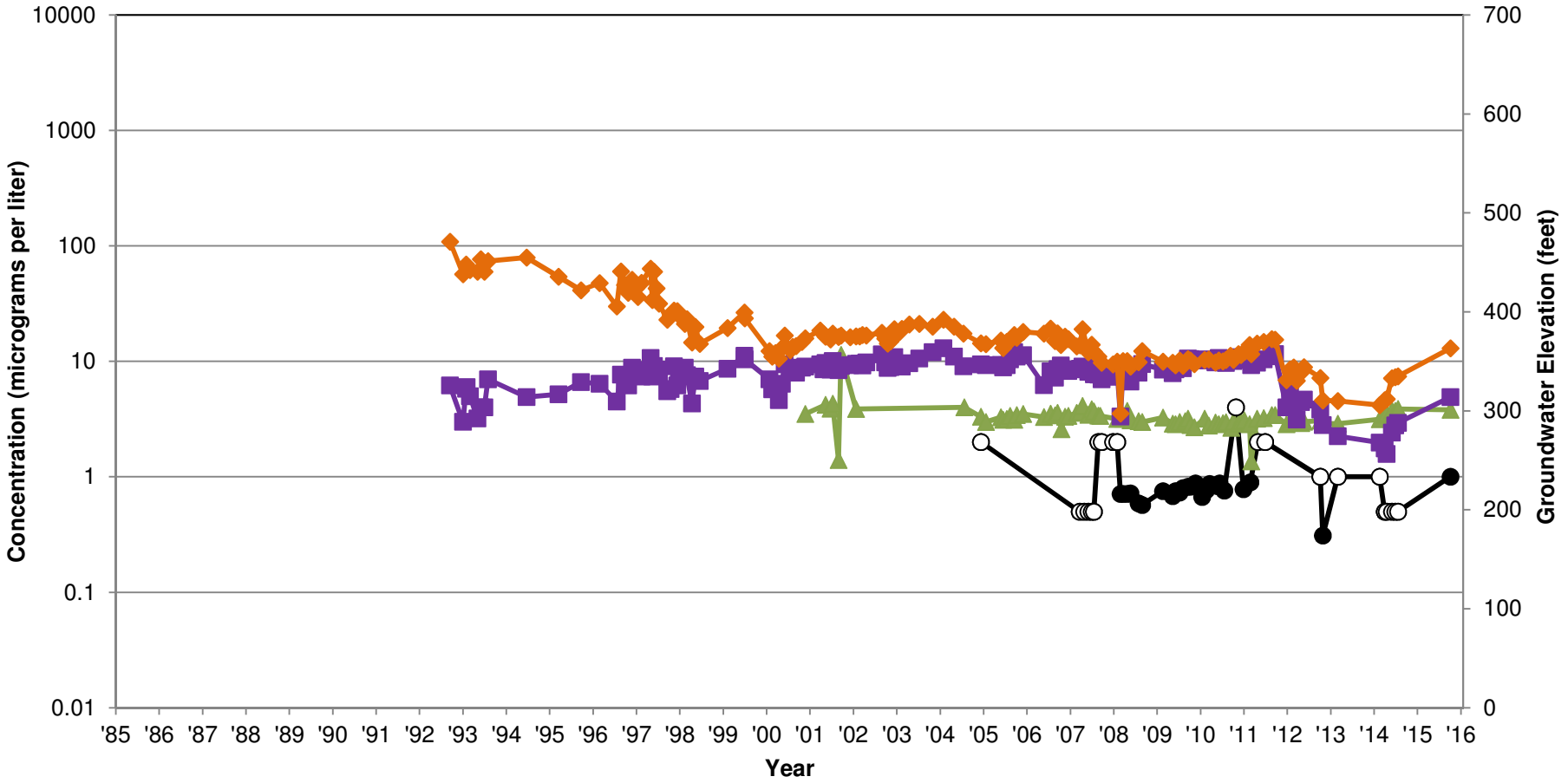
Figure
C60

NHE-6



Historical Concentrations of Chemicals of Potential Concern Over Time
North Hollywood Operable Unit

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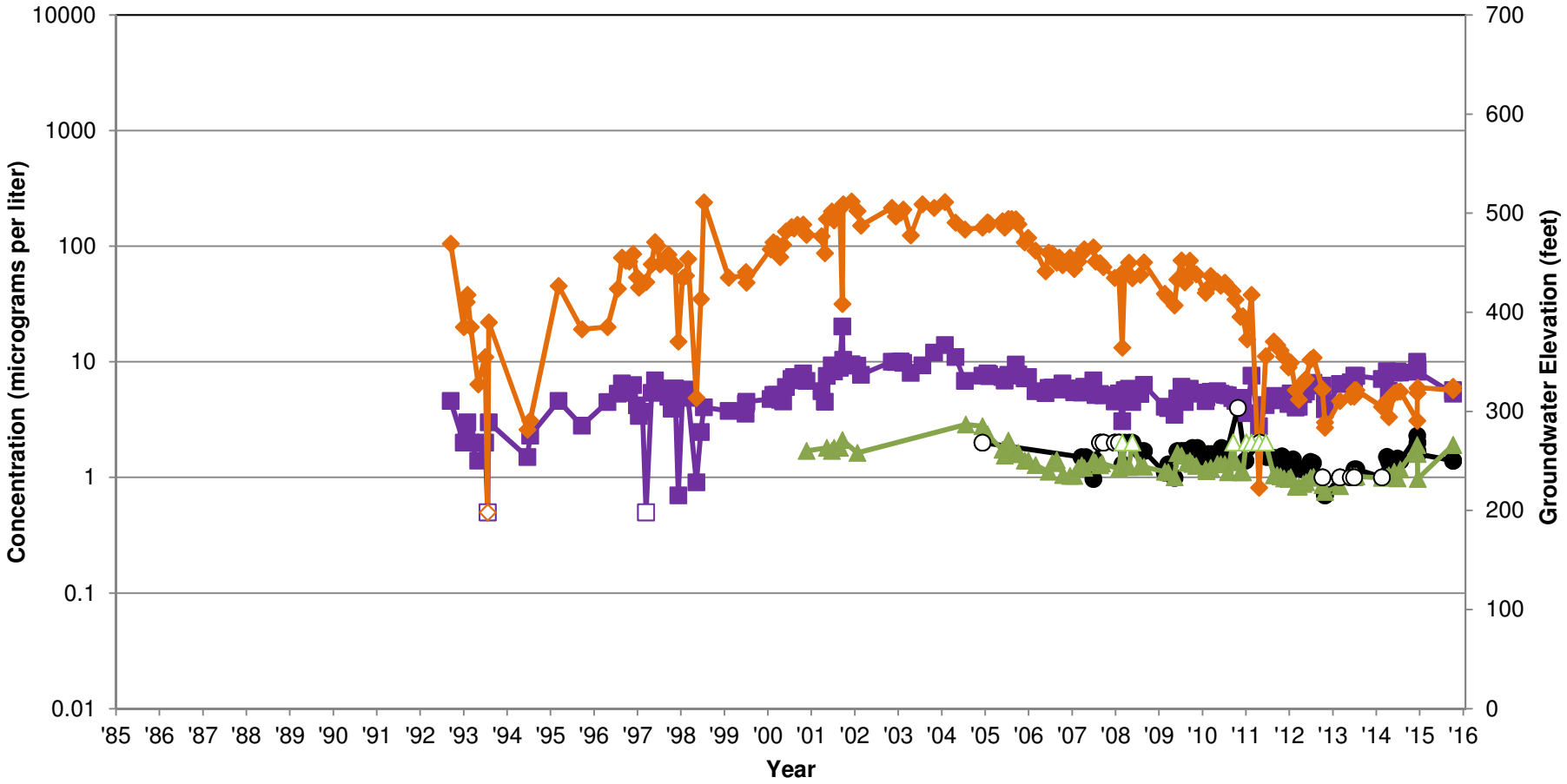
Date: 1/26/16

Project No. 8615180650

Figure
C61

NHE-7



Historical Concentrations of Chemicals of Potential Concern Over Time
North Hollywood Operable Unit

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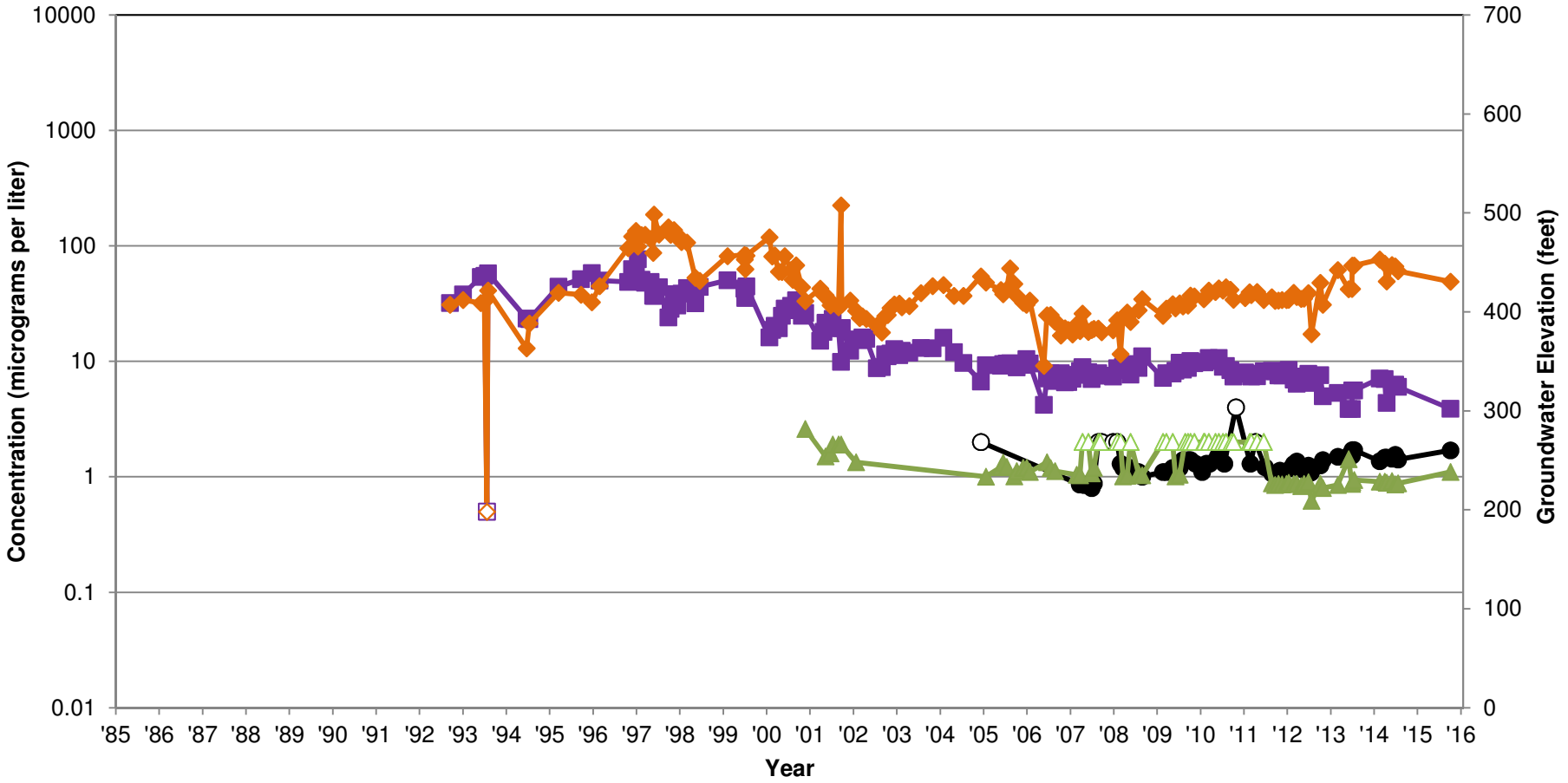
Figure
C62

NHE-8



Historical Concentrations of Chemicals of Potential Concern Over Time
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Figure
C63

NH-MW-06

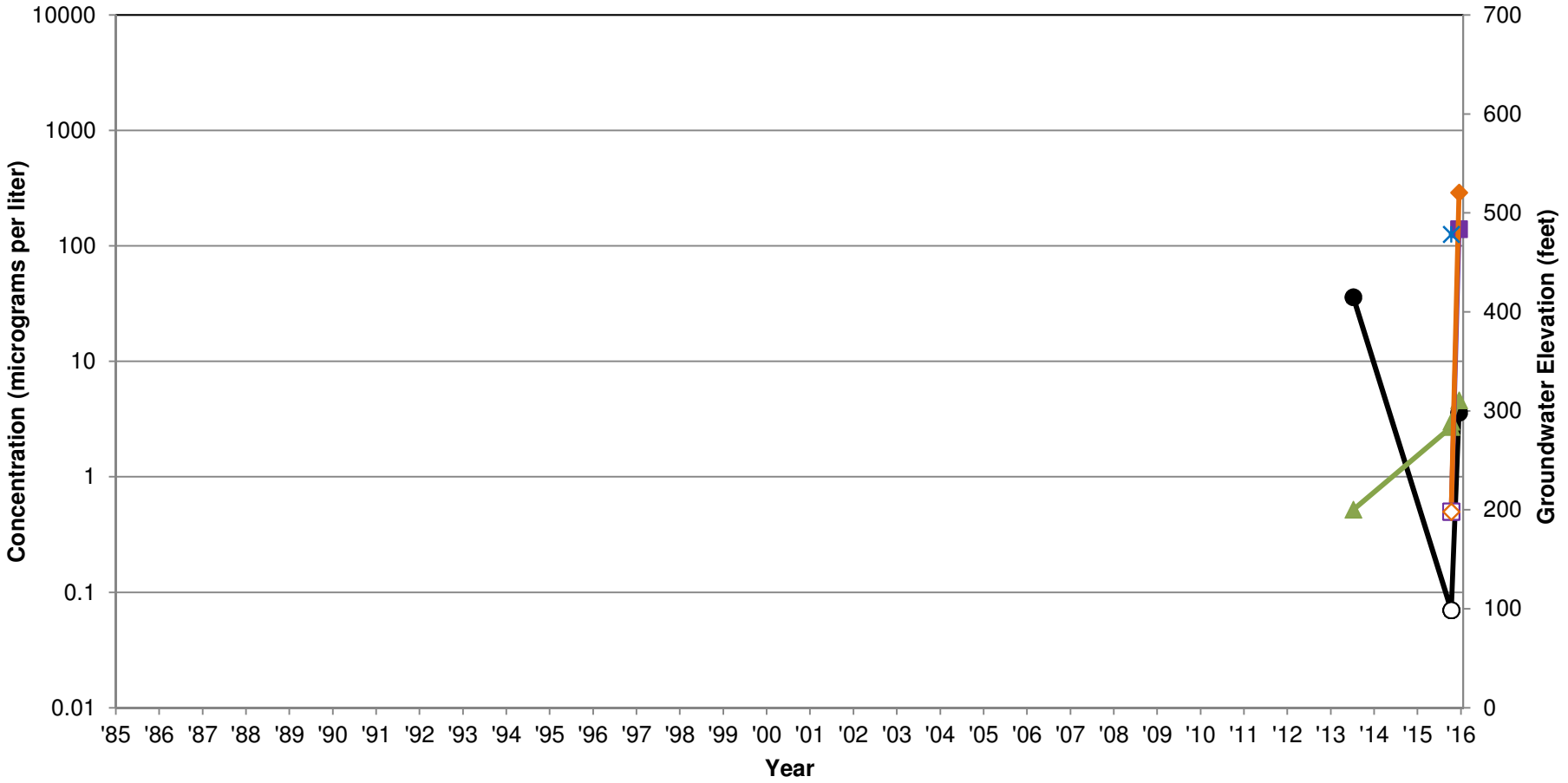

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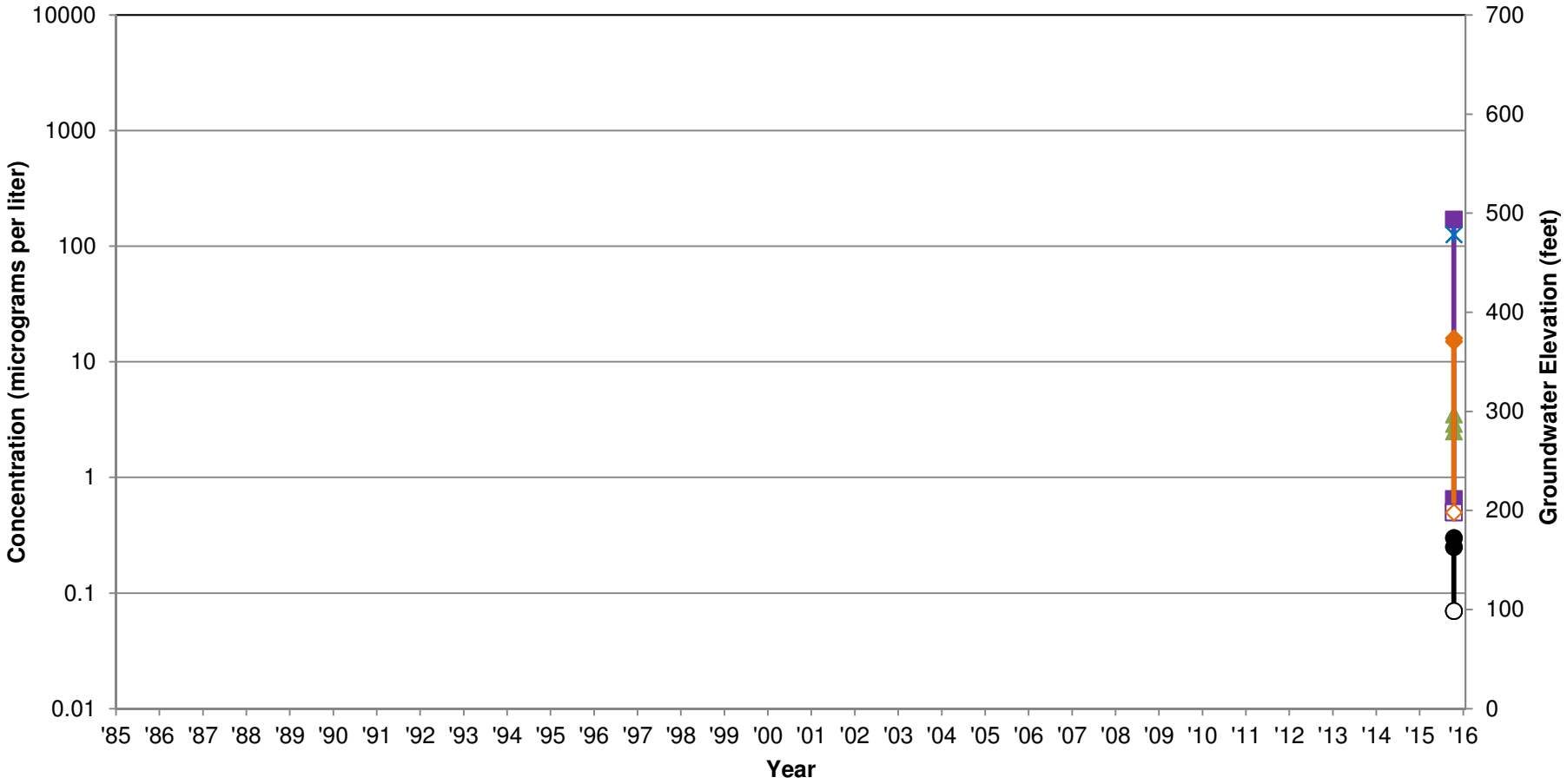
Figure
C64

NH-MW-11



Historical Concentrations of Chemicals of Potential Concern Over Time
North Hollywood Operable Unit

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Figure
C65

PZ-NHE-2S

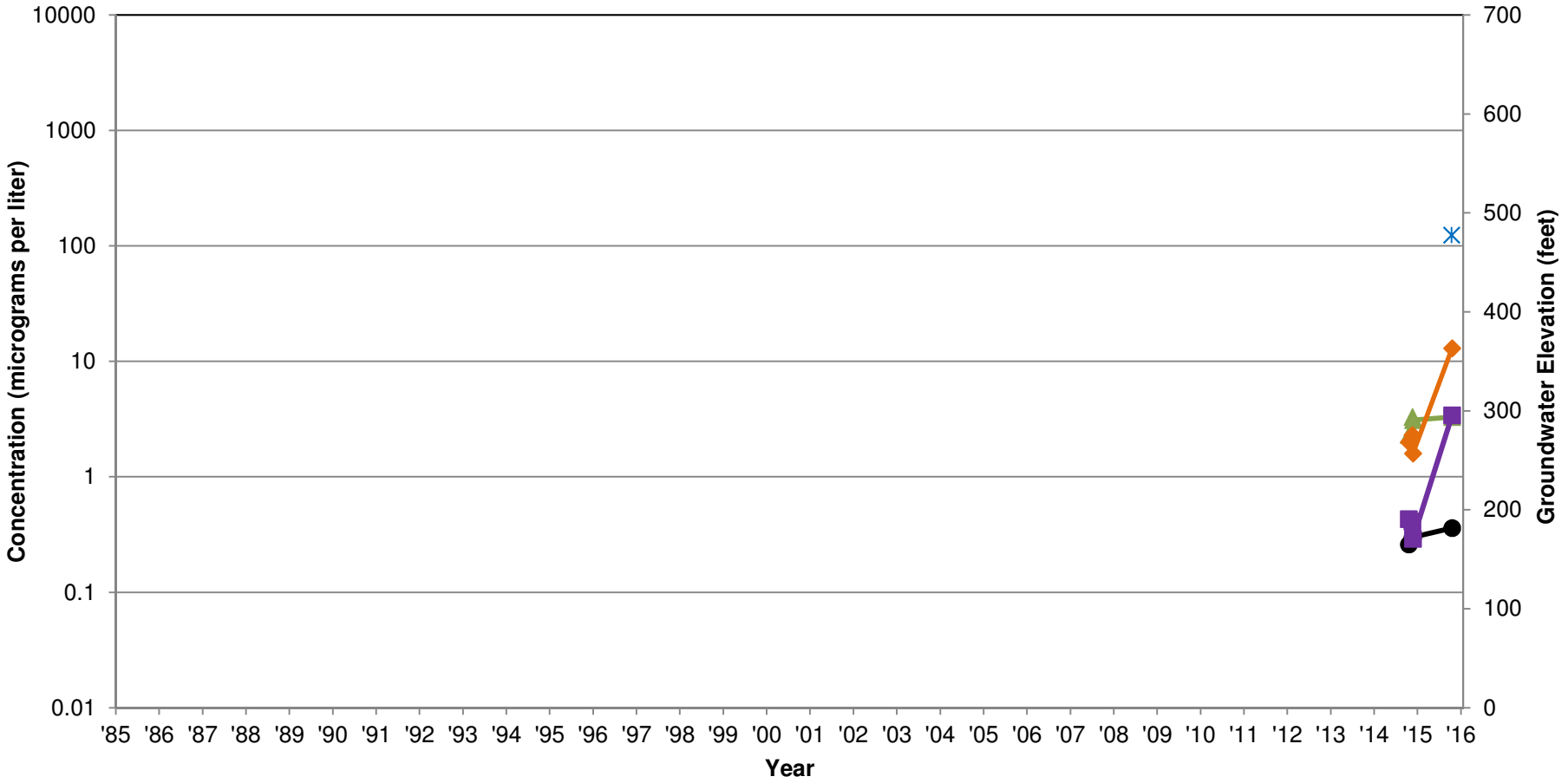

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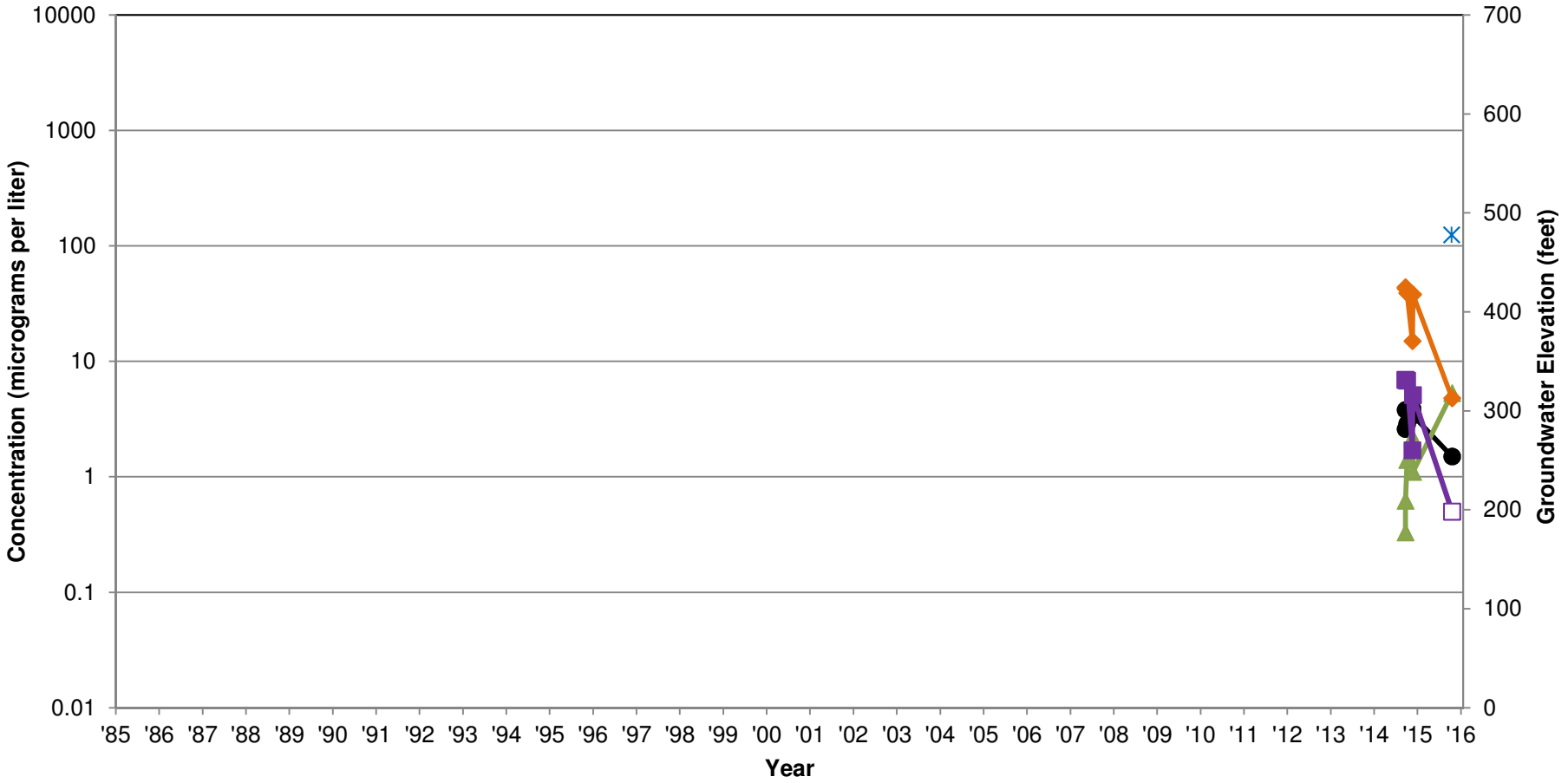
Figure
C66

PZ-NHE-2D



Historical Concentrations of Chemicals of Potential Concern Over Time
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Figure
C67

PZ-NHE-4S

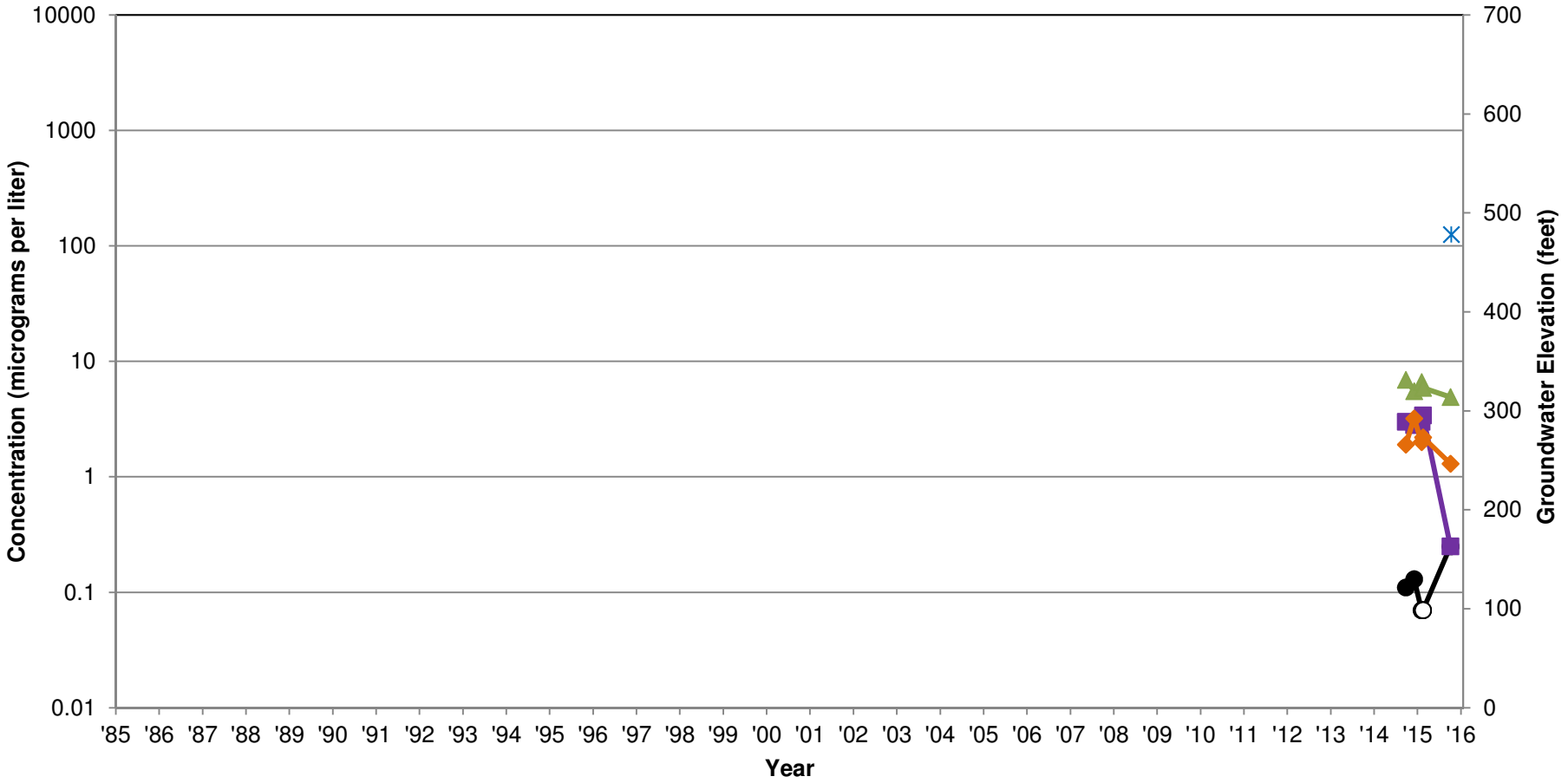

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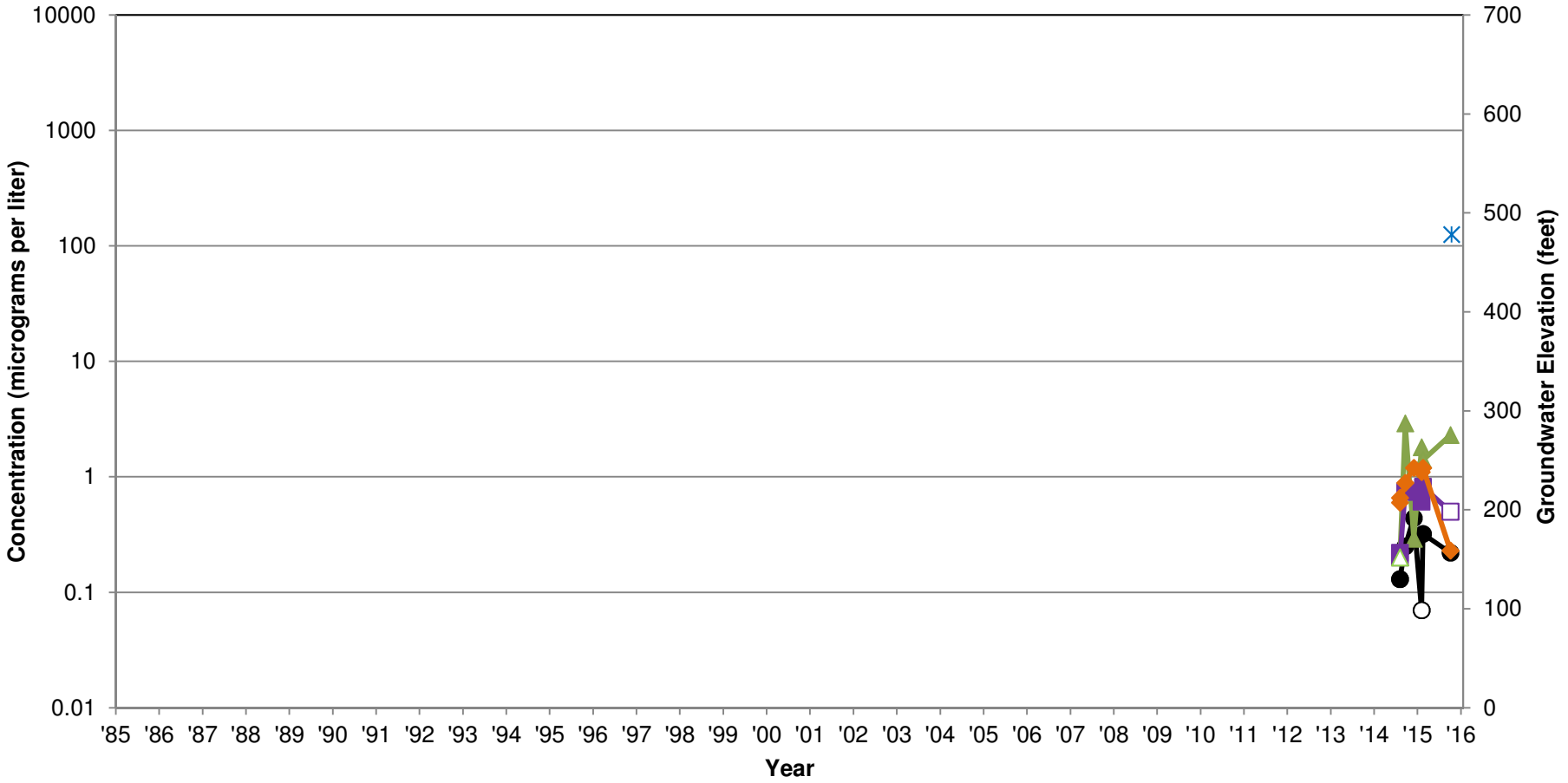
Figure
C68

PZ-NHE-4D



Historical Concentrations of Chemicals of Potential Concern Over Time
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Figure
C69

PZ-NHE-7S

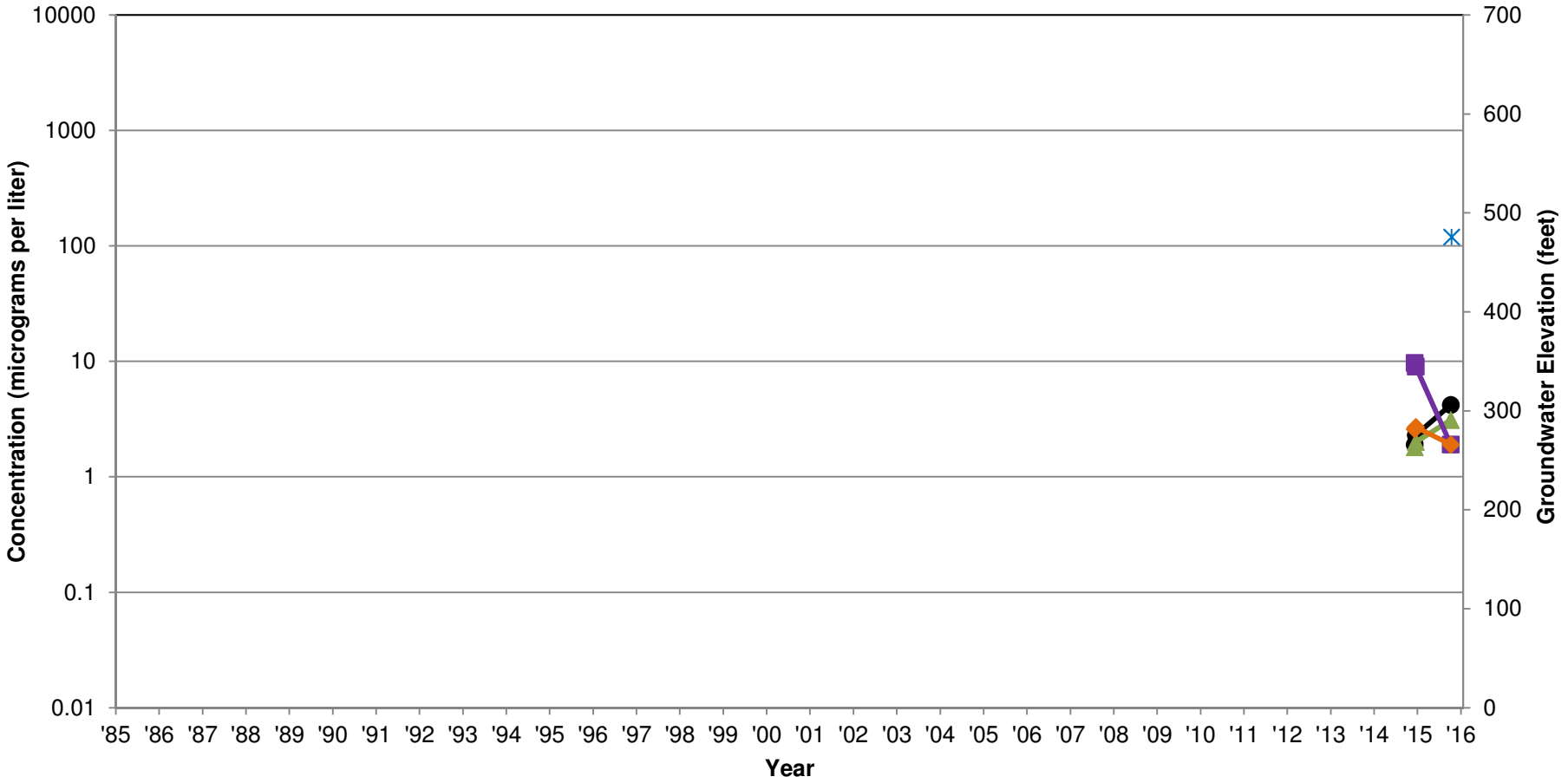

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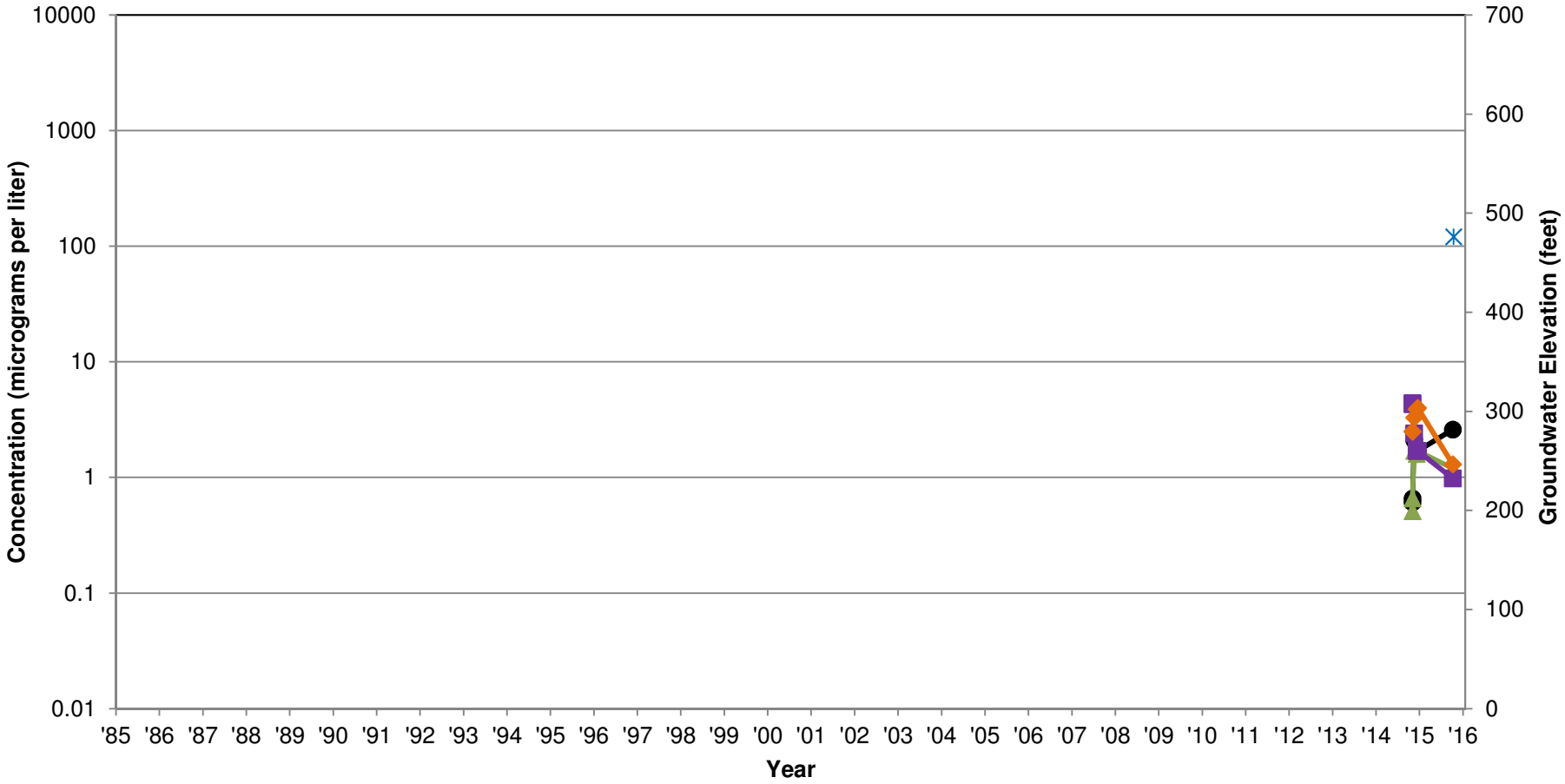
Figure
C70

PZ-NHE-7D



Historical Concentrations of Chemicals of Potential Concern Over Time
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Figure
71

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ATTACHMENT D

Groundwater Elevation and COC Correlograms

ATTACHMENT D

GEOSTATISTICAL ANALYSIS SUMMARY – OCTOBER 2015

Phase 1 Pre-Design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

This attachment summarizes results of geostatistical analysis of changes in groundwater elevations and analyte concentrations observed in fall 2013 and fall 2015 to assess whether data are time stable, or correlated. This analysis primarily relies on the use of cross correlograms, which measure the spatial and temporal correlation between two variables. In general, sampled data points closer together will exhibit stronger correlations than sampled data points farther apart. The cross correlogram analysis was applied to kriged spatial estimates of COC concentrations and groundwater elevation because the total sample number and locations were unique between the two sampling events. Cross correlogram analysis was performed on data sampled within the A-Zone. Data were screened for skewness; if skewed, data were Gaussian transformed prior to performing variography and kriging. Kriged estimates (for COCs) were then back-transformed; groundwater elevation data were not transformed. Correlograms were generated using back-transformed kriged map output (i.e., no transformations).

TIME STABILITY ANALYSIS

By convention, time stability is determined by studying the apex of the cross correlogram between two time steps; if the apex of the cross correlogram centers on lag zero, then there is no apparent spatial shift in the patterned highs and lows in COC concentrations or groundwater elevation between time steps. If the cross correlogram exhibits symmetry about the apex, then the source(s) of variation driving the patterned highs and lows in COC concentrations or groundwater elevation is, overall, consistent between time steps. Time stability correlograms are illustrated on Figures D1 through D5. Correlation coefficients (rho values) calculated for various lag separation distances are presented in Table D1.

Time stability was classified as weak, moderate, or strong, per defined by the correlation coefficient at the apex of the correlogram. A weak correlation coefficient is classified to be less than 0.40; a moderate correlation coefficient is classified to lie between 0.41 and 0.70; and a strong correlation coefficient is greater than 0.71. In general, the cross correlograms indicate time stability was moderate to strong for most COC concentrations and groundwater elevation data. Specifically, hexavalent chromium and groundwater elevation exhibited strong time stability with correlation coefficients of 0.71 (Figure D1) and 0.79 (Figure D2), respectively. The correlograms for these variables were generally symmetric. Groundwater elevation exhibited a

slight lag, or offset, in the apex of the cross correlogram indicating there is a shift in the spatial pattern in groundwater gradients between the two sampling dates.

TCE and 1,4-dioxane exhibit moderate time stability with correlation coefficients of 0.50 (Figure D3) and 0.53 (Figure D4), respectively. The correlograms were symmetric for TCE and 1,4-dioxane. PCE exhibited weak time stability with a correlation coefficient of 0.15 (Figure D5) and exhibited asymmetry about the apex of the cross correlogram. Notably, monitoring wells installed between the two sampling events indicated a larger area of elevated PCE concentrations in fall 2015 than was previously recognized, which is the likely the cause of the weak spatial correlation and asymmetry observed with respect to PCE between the two sampling events.

CORRELATION ANALYSIS - COC CONCENTRATIONS AND GROUNDWATER ELEVATIONS

Delta maps were also generated by subtracting 2015 kriged COC concentration and groundwater elevation maps from the 2013 kriged COC concentration and groundwater elevation maps, respectively. Associated correlograms are illustrated on Figures D6 through D9. Correlation coefficients (rho values) calculated for various lag separation distances are presented in Table D1.

Cross correlograms were generated between delta COC concentration maps and delta groundwater maps to assess if there is a significant spatial correlation between changes in groundwater elevation and changes in COC concentrations over time. In general, weak spatial correlations (less than an absolute value of 0.20) were observed between delta chromium VI concentrations and delta groundwater elevations (Figure D6), delta TCE concentrations and delta groundwater elevations (Figure D7), and delta 1,4-dioxane concentrations and delta groundwater elevations (Figure D8), with time. These weak correlations indicate that temporal changes in groundwater elevation since 2013 have not had a pronounced impact on the spatial distribution of COC concentrations throughout the study area as observed in 2015.

In contrast, delta PCE concentrations and delta groundwater elevations (Figure D9) exhibited a significant ($p<0.05$) inverse correlation between the two sampling events. The inverse relationship suggests that PCE concentrations increased between 2013 and 2015 as groundwater elevations decreased. As with the time stability analysis, this association is likely due to data from monitoring wells installed since the 2013 sampling event, which indicate a large area of elevated PCE concentrations.

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	0.59	5358	Figure D1
-9	-2263	0.60	5507	Figure D1
-8	-1980	0.62	5652	Figure D1
-7	-1697	0.64	5787	Figure D1
-6	-1414	0.66	5911	Figure D1
-5	-1131	0.68	6020	Figure D1
-4	-849	0.69	6121	Figure D1
-3	-566	0.70	6218	Figure D1
-2	-283	0.71	6311	Figure D1
-1	0	0.00	0	Figure D1
0	0	0.71	6395	Figure D1
1	0	0.00	0	Figure D1
2	283	0.71	6226	Figure D1
3	566	0.70	6050	Figure D1
4	849	0.68	5873	Figure D1
5	1131	0.65	5698	Figure D1
6	1414	0.63	5526	Figure D1
7	1697	0.60	5356	Figure D1
8	1980	0.57	5188	Figure D1
9	2263	0.53	5022	Figure D1
10	2546	0.49	4859	Figure D1

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	0.47	5441	Figure D2
-9	-2263	0.50	5609	Figure D2
-8	-1980	0.54	5779	Figure D2
-7	-1697	0.57	5951	Figure D2
-6	-1414	0.60	6125	Figure D2
-5	-1131	0.64	6301	Figure D2
-4	-849	0.67	6479	Figure D2
-3	-566	0.70	6659	Figure D2
-2	-283	0.73	6839	Figure D2
-1	0	0.00	0	Figure D2
0	0	0.76	7017	Figure D2
1	0	0.00	0	Figure D2
2	283	0.76	6833	Figure D2
3	566	0.77	6651	Figure D2
4	849	0.78	6471	Figure D2
5	1131	0.79	6293	Figure D2
6	1414	0.79	6117	Figure D2
7	1697	0.79	5943	Figure D2
8	1980	0.78	5771	Figure D2
9	2263	0.78	5602	Figure D2
10	2546	0.76	5437	Figure D2

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	0.01	5442	Figure D3
-9	-2263	0.02	5610	Figure D3
-8	-1980	0.04	5780	Figure D3
-7	-1697	0.06	5952	Figure D3
-6	-1414	0.08	6126	Figure D3
-5	-1131	0.10	6302	Figure D3
-4	-849	0.14	6480	Figure D3
-3	-566	0.22	6660	Figure D3
-2	-283	0.35	6842	Figure D3
-1	0	0.00	0	Figure D3
0	0	0.53	7026	Figure D3
1	0	0.00	0	Figure D3
2	283	0.50	6842	Figure D3
3	566	0.35	6660	Figure D3
4	849	0.24	6480	Figure D3
5	1131	0.16	6302	Figure D3
6	1414	0.12	6126	Figure D3
7	1697	0.10	5952	Figure D3
8	1980	0.08	5780	Figure D3
9	2263	0.06	5610	Figure D3
10	2546	0.03	5442	Figure D3

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	0.28	5442	Figure D4
-9	-2263	0.32	5610	Figure D4
-8	-1980	0.36	5780	Figure D4
-7	-1697	0.41	5952	Figure D4
-6	-1414	0.43	6126	Figure D4
-5	-1131	0.45	6302	Figure D4
-4	-849	0.48	6480	Figure D4
-3	-566	0.53	6660	Figure D4
-2	-283	0.53	6842	Figure D4
-1	0	0.00	0	Figure D4
0	0	0.53	7026	Figure D4
1	0	0.00	0	Figure D4
2	283	0.51	6842	Figure D4
3	566	0.46	6660	Figure D4
4	849	0.40	6480	Figure D4
5	1131	0.35	6302	Figure D4
6	1414	0.31	6126	Figure D4
7	1697	0.28	5952	Figure D4
8	1980	0.26	5780	Figure D4
9	2263	0.24	5610	Figure D4
10	2546	0.21	5442	Figure D4

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	-0.01	5442	Figure D5
-9	-2263	0.01	5610	Figure D5
-8	-1980	0.02	5780	Figure D5
-7	-1697	0.03	5952	Figure D5
-6	-1414	0.05	6126	Figure D5
-5	-1131	0.07	6302	Figure D5
-4	-849	0.10	6480	Figure D5
-3	-566	0.13	6660	Figure D5
-2	-283	0.15	6842	Figure D5
-1	0	0.00	0	Figure D5
0	0	0.15	7026	Figure D5
1	0	0.00	0	Figure D5
2	283	0.15	6842	Figure D5
3	566	0.14	6660	Figure D5
4	849	0.12	6480	Figure D5
5	1131	0.09	6302	Figure D5
6	1414	0.07	6126	Figure D5
7	1697	0.06	5952	Figure D5
8	1980	0.05	5780	Figure D5
9	2263	0.05	5610	Figure D5
10	2546	0.04	5442	Figure D5

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	-0.01	5437	Figure D8
-9	-2263	-0.02	5602	Figure D8
-8	-1980	-0.02	5771	Figure D8
-7	-1697	-0.02	5943	Figure D8
-6	-1414	-0.03	6117	Figure D8
-5	-1131	-0.03	6293	Figure D8
-4	-849	-0.04	6471	Figure D8
-3	-566	-0.05	6651	Figure D8
-2	-283	-0.06	6833	Figure D8
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0	0	-0.06	7017	Figure D8
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2	283	-0.06	6839	Figure D8
3	566	-0.06	6659	Figure D8
4	849	-0.06	6480	Figure D8
5	1131	-0.05	6302	Figure D8
6	1414	-0.05	6126	Figure D8
7	1697	-0.05	5952	Figure D8
8	1980	-0.04	5780	Figure D8
9	2263	-0.03	5610	Figure D8
10	2546	-0.03	5442	Figure D8

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
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-9	-2263	-0.05	5014	Figure D6
-8	-1980	-0.07	5179	Figure D6
-7	-1697	-0.09	5347	Figure D6
-6	-1414	-0.11	5517	Figure D6
-5	-1131	-0.13	5689	Figure D6
-4	-849	-0.15	5864	Figure D6
-3	-566	-0.16	6041	Figure D6
-2	-283	-0.17	6217	Figure D6
-1	0	0.00	0	Figure D6
0	0	-0.18	6390	Figure D6
1	0	0.00	0	Figure D6
2	283	-0.18	6310	Figure D6
3	566	-0.17	6218	Figure D6
4	849	-0.16	6121	Figure D6
5	1131	-0.15	6020	Figure D6
6	1414	-0.14	5911	Figure D6
7	1697	-0.13	5787	Figure D6
8	1980	-0.11	5652	Figure D6
9	2263	-0.10	5507	Figure D6
10	2546	-0.09	5358	Figure D6

TABLE D1

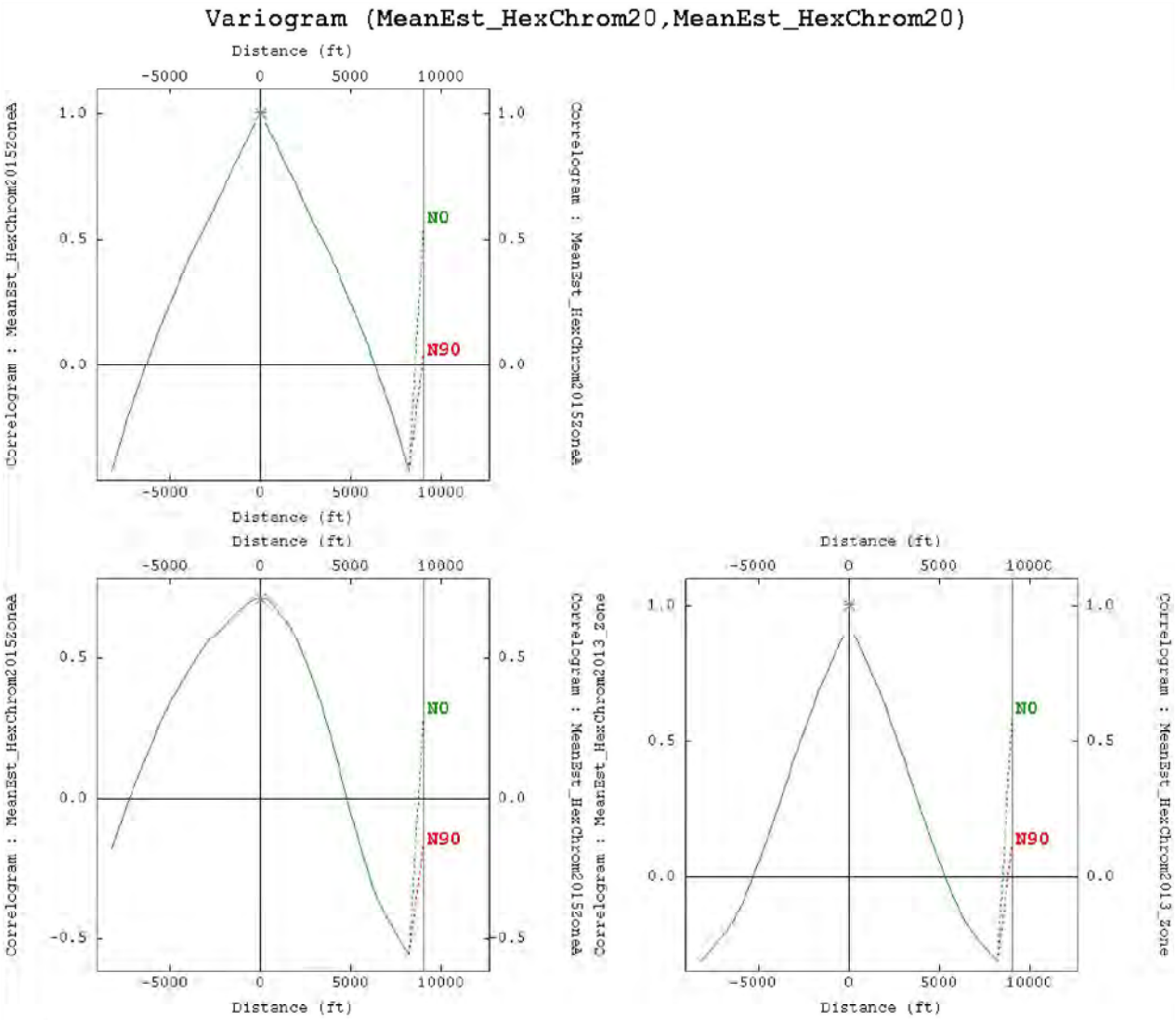
CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	-0.30	5437	Figure D9
-9	-2263	-0.36	5602	Figure D9
-8	-1980	-0.40	5771	Figure D9
-7	-1697	-0.44	5943	Figure D9
-6	-1414	-0.48	6117	Figure D9
-5	-1131	-0.50	6293	Figure D9
-4	-849	-0.52	6471	Figure D9
-3	-566	-0.54	6651	Figure D9
-2	-283	-0.54	6833	Figure D9
-1	0	0.00	0	Figure D9
0	0	-0.54	7017	Figure D9
1	0	0.00	0	Figure D9
2	283	-0.52	6839	Figure D9
3	566	-0.49	6659	Figure D9
4	849	-0.45	6480	Figure D9
5	1131	-0.41	6302	Figure D9
6	1414	-0.36	6126	Figure D9
7	1697	-0.32	5952	Figure D9
8	1980	-0.27	5780	Figure D9
9	2263	-0.23	5610	Figure D9
10	2546	-0.18	5442	Figure D9

TABLE D1

CORRELATION COEFFICIENTS - OCTOBER 2015
Phase 1 Pre-design Investigation, NHOU Second Interim Remedy
Los Angeles County, California

Directional Lag	Average Lag Separation Distance (feet)	Correlation Coefficient (rho)	Number of Sample Pairs Assessed	Appendix Figure
-10	-2546	0.02	5437	Figure D7
-9	-2263	0.01	5602	Figure D7
-8	-1980	0.01	5771	Figure D7
-7	-1697	0.00	5943	Figure D7
-6	-1414	0.00	6117	Figure D7
-5	-1131	0.00	6293	Figure D7
-4	-849	-0.01	6471	Figure D7
-3	-566	-0.01	6651	Figure D7
-2	-283	-0.01	6833	Figure D7
-1	0	0.00	0	Figure D7
0	0	-0.02	7017	Figure D7
1	0	0.00	0	Figure D7
2	283	-0.02	6839	Figure D7
3	566	-0.02	6659	Figure D7
4	849	-0.02	6480	Figure D7
5	1131	-0.03	6302	Figure D7
6	1414	-0.03	6126	Figure D7
7	1697	-0.03	5952	Figure D7
8	1980	-0.04	5780	Figure D7
9	2263	-0.04	5610	Figure D7
10	2546	-0.04	5442	Figure D7



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D2 : N0
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carla.landrum
Jan 27 2016 23:13:21
Tareszkia

TIME STABILITY ANALYSIS
BETWEEN 2013 AND 2015
CHROMIUM IV DISTRIBUTION MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D1

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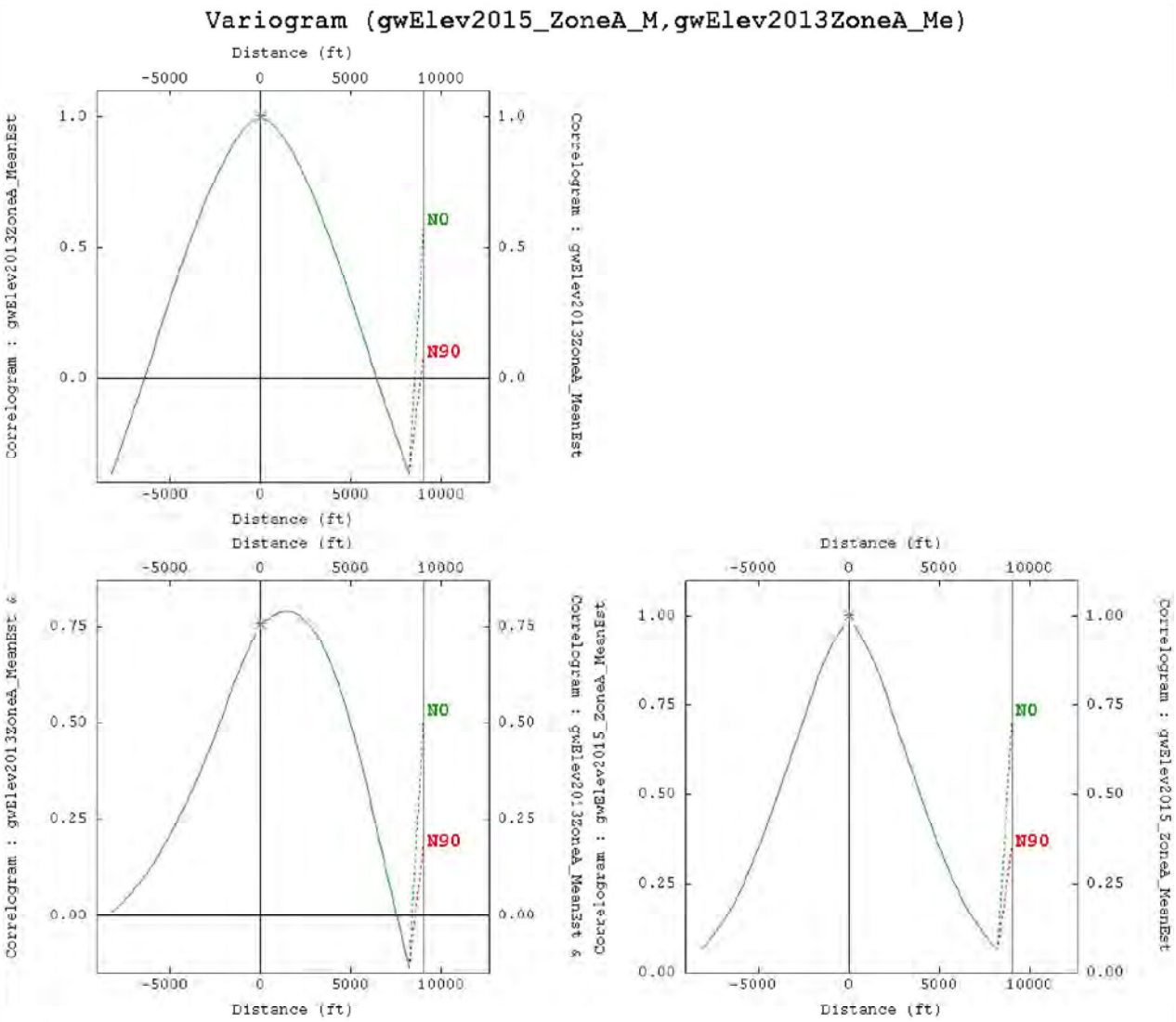

TIME STABILITY ANALYSIS
BETWEEN 2013 AND 2015
POTENTIOMETRIC MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D2

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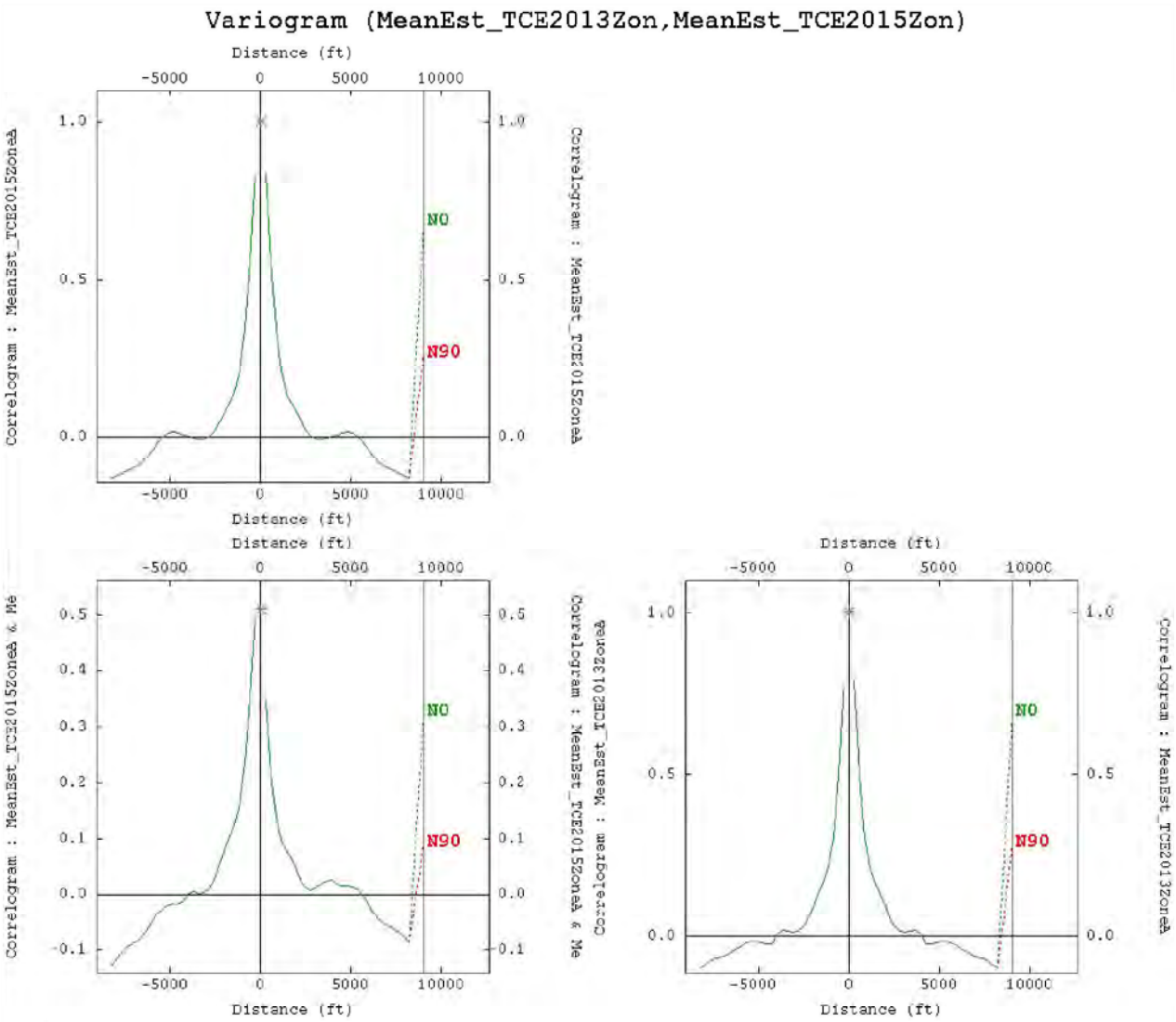

TIME STABILITY ANALYSIS
BETWEEN 2013 AND 2015
TCE DISTRIBUTION MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D3

Prepared by: Monday, February 08, 2016 6:04:41 PM
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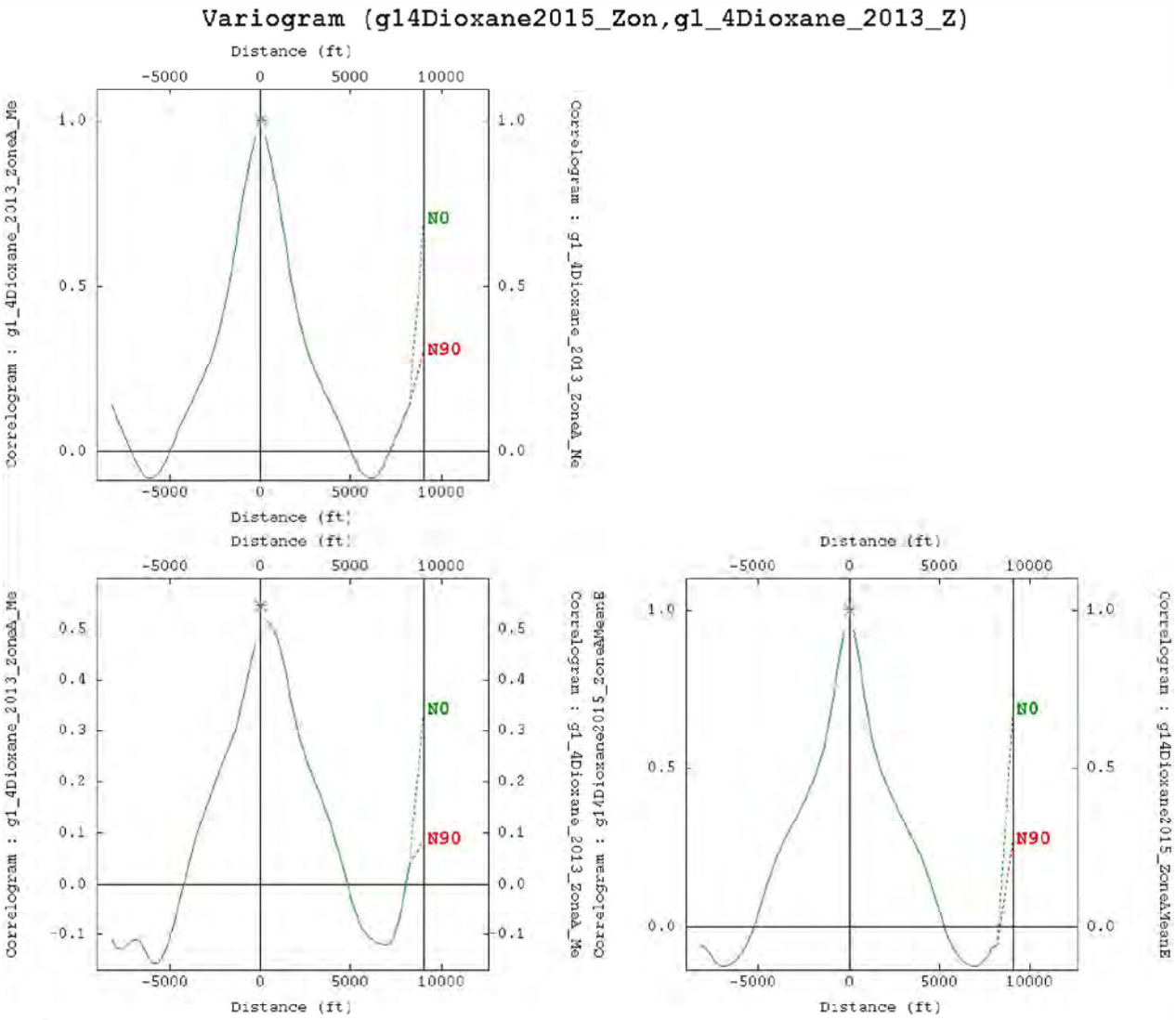

Isatis

RawData/GridTest100x100
- Variable #1 : g14Dioxane2015_ZoneAMeanEst
- Variable #2 : g1_4Dioxane_2013_ZoneA_MeanEst
Correlogram : in 2 direction(s)
D1 : N90
Lag = 282.8427ft, Count = 61 lags
D2 : N0
Lag = 282.8427ft, Count = 61 lags

carla.landrum
Jan 31 2016 16:12:06
Tareszkia

TIME STABILITY ANALYSIS
BETWEEN 2013 AND 2015
1,4-DIOXANE DISTRIBUTION MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Figure
D4

Date: 2/2016

Project No. 8615180650

Prepared by: Monday, February 08, 2016 6:04:25 PM
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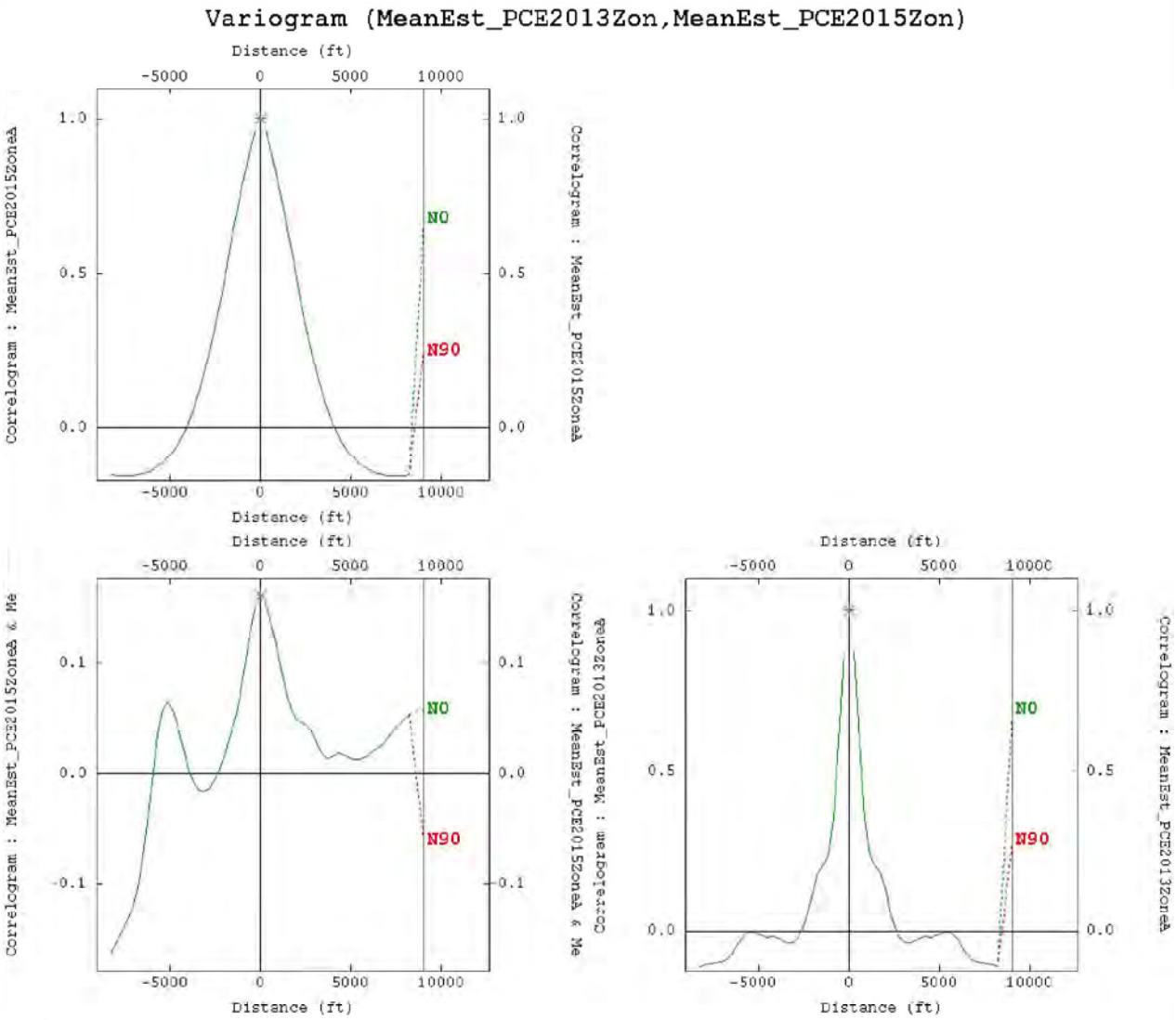

Isatis

RawData/GridTest100x100
- Variable #1 : MeanEst_PCE2013ZoneA
- Variable #2 : MeanEst_PCE2015ZoneA
Correlogram : in 2 direction(s)
D1 : N90
Lag = 282.8427ft, Count = 61 lags
D2 : N0
Lag = 282.8427ft, Count = 61 lags

carla.landrum
Jan 27 2016 23:01:01
Tareszkia

TIME STABILITY ANALYSIS
BETWEEN 2013 AND 2015
PCE DISTRIBUTION MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D5

Prepared by: Monday, February 08, 2016 6:05:23 PM
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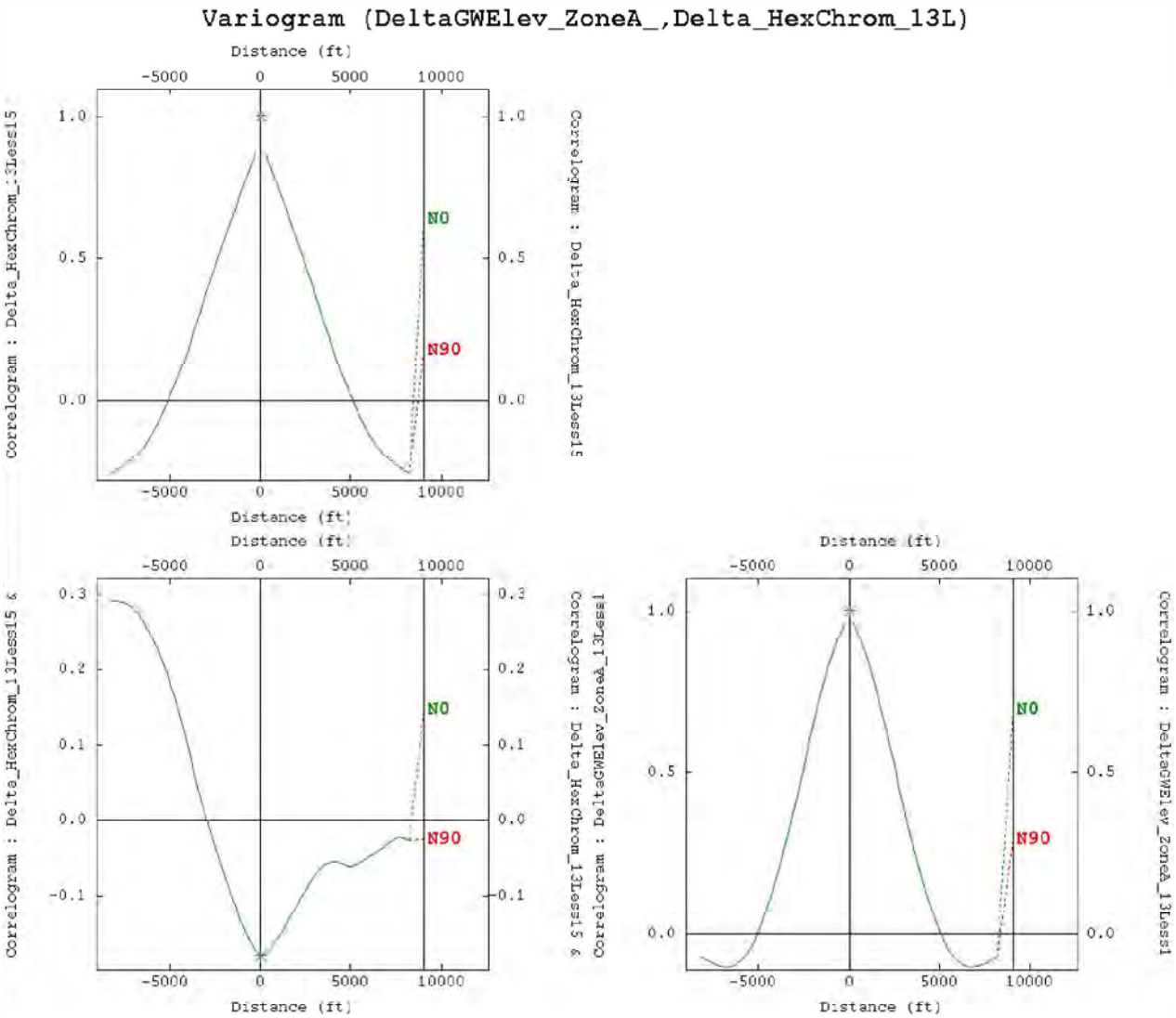

Isatis

RawData/GridTest100x100
- Variable #1 : DeltaGWElev_ZoneA_13Less15
- Variable #2 : Delta_HexChrom_13Less15
Correlogram : in 2 direction(s)
D1 : N90
Lag = 282.8427ft, Count = 61 lags
D2 : N0
Lag = 282.8427ft, Count = 61 lags

carla.landrum
Jan 31 2016 17:05:43
Tareszkia

CORRELATIONS BETWEEN
DELTA CHROMIUM VI DISTRIBUTION
AND DELTA POTENTIOMETRIC MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D6

Prepared by: Monday, February 08, 2016 6:07:06 PM
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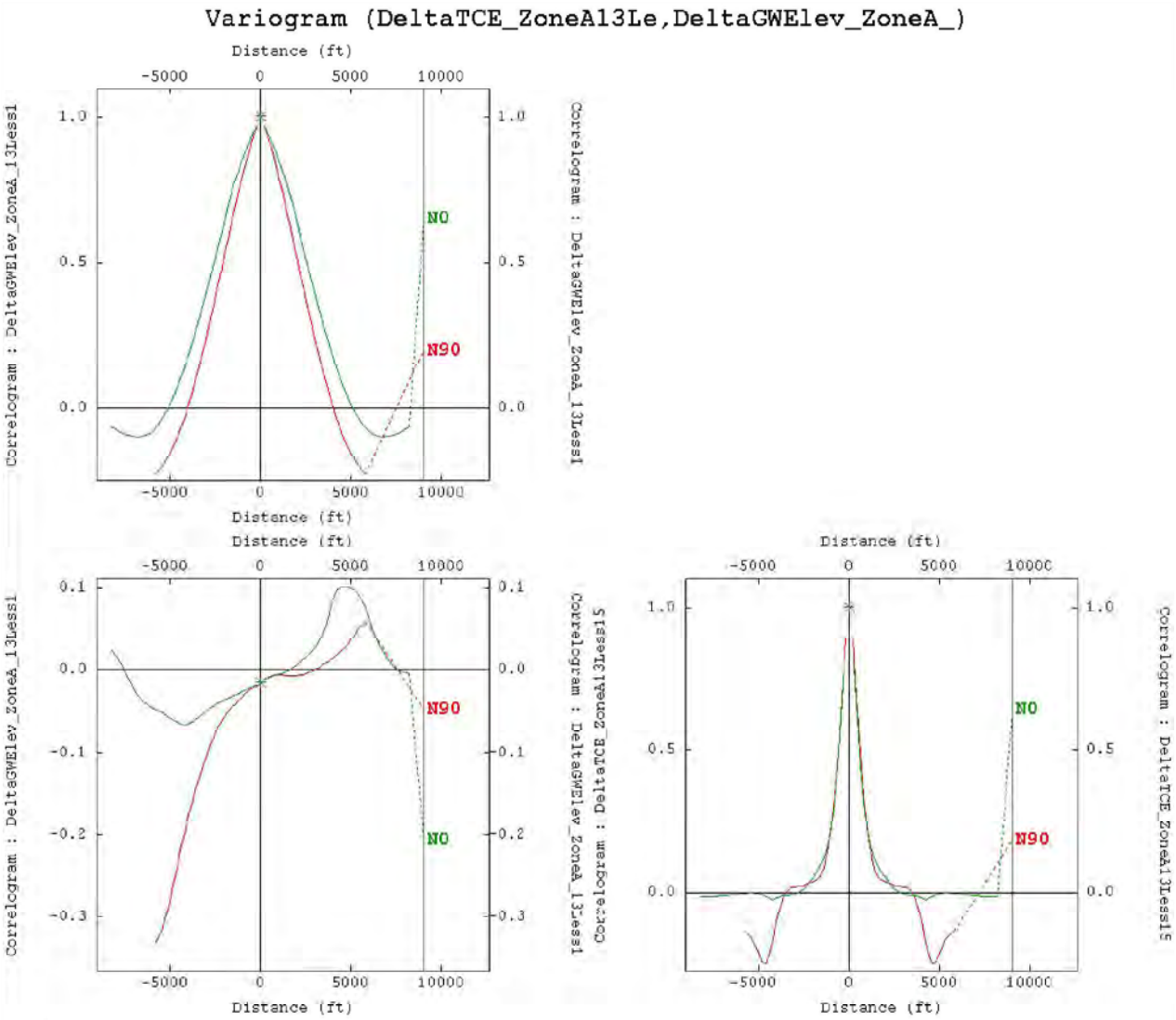


Isatis

RawData/GridTest100x100
- Variable #1 : DeltaTCE_ZoneA13Less15
- Variable #2 : DeltaGWElev_ZoneA_13Less15
Correlogram : in 2 direction(s)
D1 : N90
Lag = 200.0000ft, Count = 61 lags
D2 : N0
Lag = 282.8427ft, Count = 61 lags

carla.landrum
Jan 27 2016 22:05:28
Tareszkia

CORRELATIONS BETWEEN
DELTA TCE DISTRIBUTION
AND DELTA POTENTIOMETRIC MAPS
North Hollywood Operable Unit
Los Angeles County, California

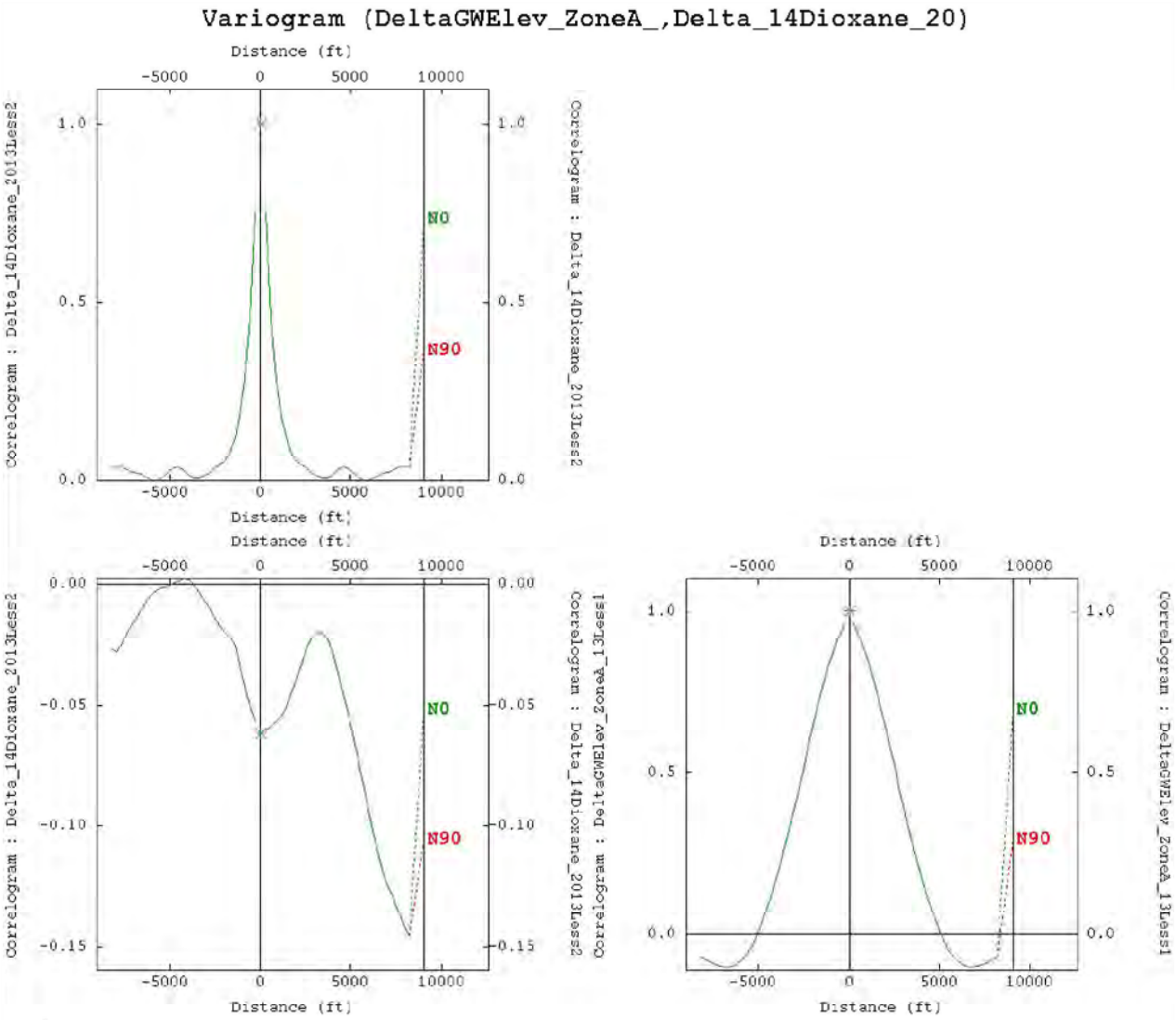
amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D7

Prepared by: Monday, February 08, 2016 6:07:53 PM
S:\18000\180650\Task2\10003\16_0208_AppendixD\FigureD7_DeltaTCE_DeltaGW.mxd



CORRELATIONS BETWEEN
DELTA 1,4-DIOXANE DISTRIBUTION
AND DELTA POTENTIOMETRIC MAPS
North Hollywood Operable Unit
Los Angeles County, California

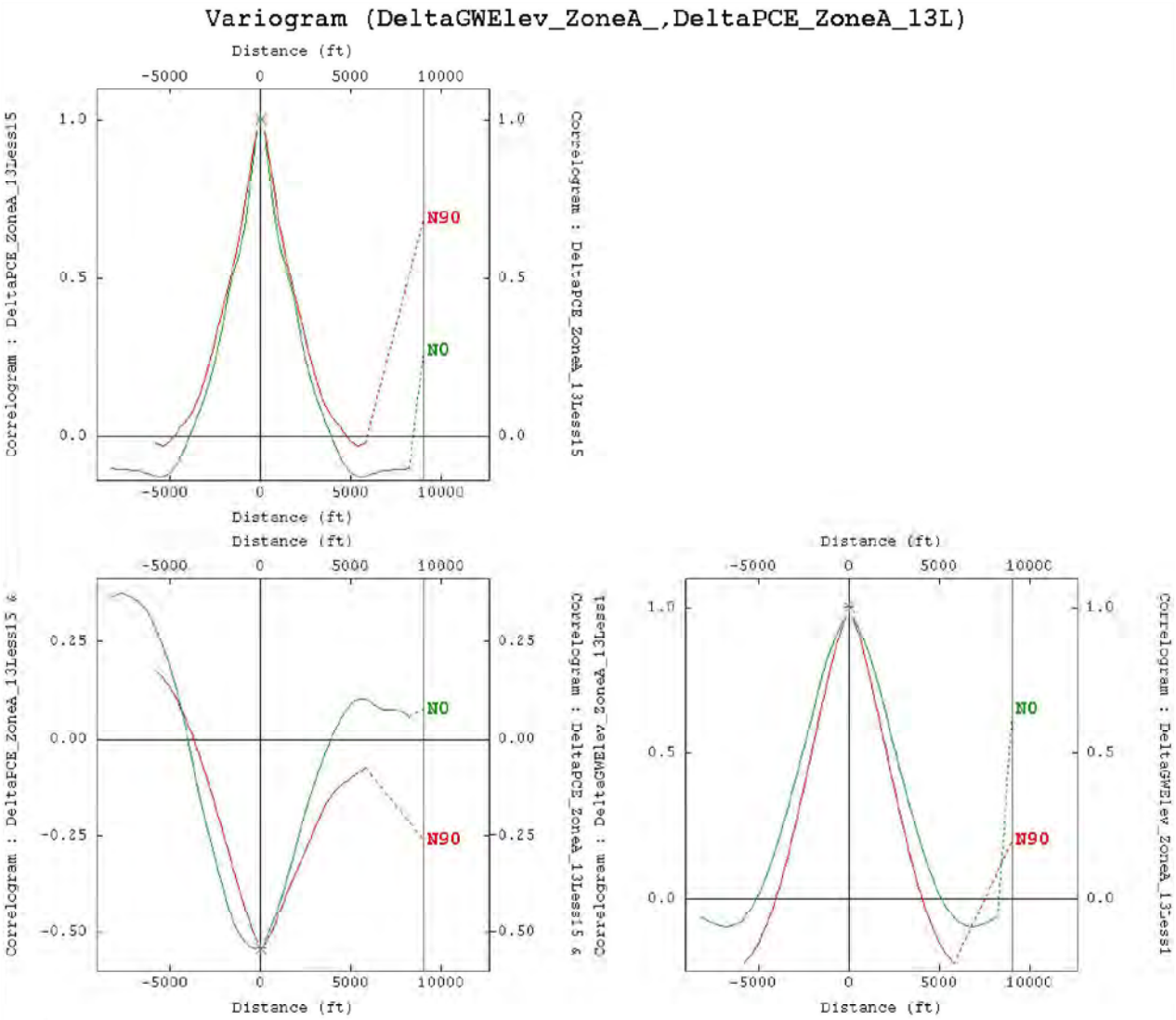
amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D8

Prepared by: Monday, February 08, 2016 6:08:35 PM
S:\18000\180650\Task2\10003\16_0208_AppendixD\FigureD8_DeltaDx14_DeltaGW.mxd



Isatis

RawData/GridTest100x100
- Variable #1 : DeltaGWElev_ZoneA_13Less15
- Variable #2 : DeltaPCE_ZoneA_13Less15
Correlogram : in 2 direction(s)
D1 : N90
Lag = 200.0000ft, Count = 61 lags
D2 : N0
Lag = 282.8427ft, Count = 61 lags

carla.landrum
Jan 27 2016 22:08:41
Tareszkia

CORRELATIONS BETWEEN
DELTA PCE DISTRIBUTION
AND DELTA POTENTIOMETRIC MAPS
North Hollywood Operable Unit
Los Angeles County, California

amec foster wheeler

Date: 2/2016

Project No. 8615180650

Figure
D9

Prepared by: Monday, February 08, 2016 6:09:54 PM
S:\18000\180650\Task2\10003\16_0208_AppendixD\FigureD9_DeltaPCE_DeltaGW.mxd