Appendix A
Monitoring Well Purge Forms
(on CD only)

This appendix located on attached CD.

Appendix B
Chain-of-Custody Forms
(on CD only)

This appendix located on attached CD.

Appendix C
Data Needs and Uses
(on CD only)

This appendix located on attached CD.

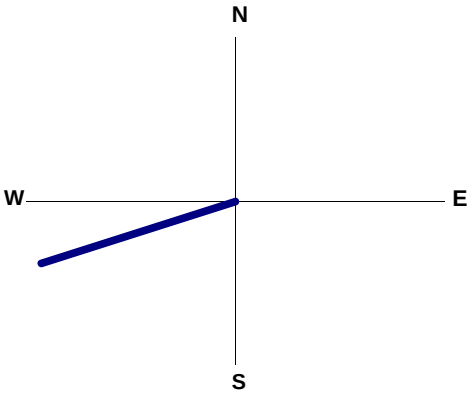
Appendix D
Shallow Groundwater Gradient Calculations

Groundwater Flow Gradient

Date: 1Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
OW4A	403320.60	3759071.90	35.43
OW1A	403554.40	3759242.10	40.64
MW12	403349.18	3759544.05	39.23

Gradient: 0.0186 (dimensionless)

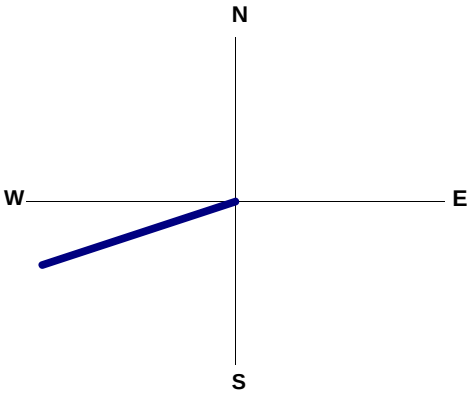


Groundwater Flow Gradient

Date: 3Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
OW4A	403320.60	3759071.90	35.16
OW1A	403554.40	3759242.10	40.41
MW12	403349.18	3759544.05	39.07

Gradient: 0.0187 (dimensionless)

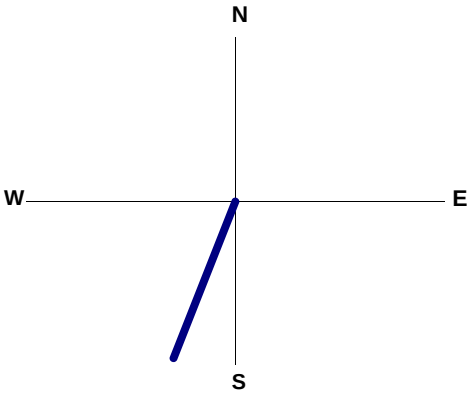


Groundwater Flow Gradient

Date: 1Q2011

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
OW4A	403320.60	3759071.90	35.04
OW3A	403503.40	3759170.10	36.30
MW12	403349.18	3759544.05	38.95

Gradient: 0.0085 (dimensionless)

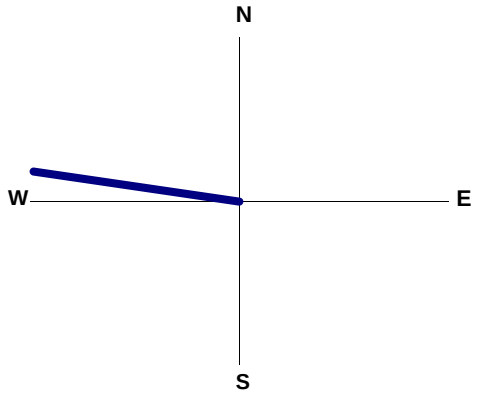


Groundwater Flow Gradient

Date: 1Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW2	402799.48	3758870.16	33.12
MW3	402931.54	3758376.49	33.76
MW5	402519.71	3758707.96	32.40

Gradient: 0.0029 (dimensionless)

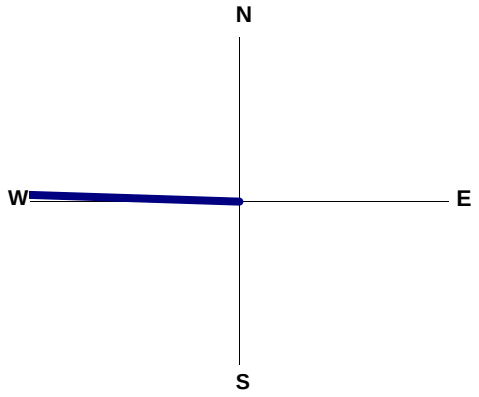


Groundwater Flow Gradient

Date: 3Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW2	402799.48	3758870.16	33.35
MW3	402931.54	3758376.49	33.60
MW5	402519.71	3758707.96	32.90

Gradient: 0.0016 (dimensionless)

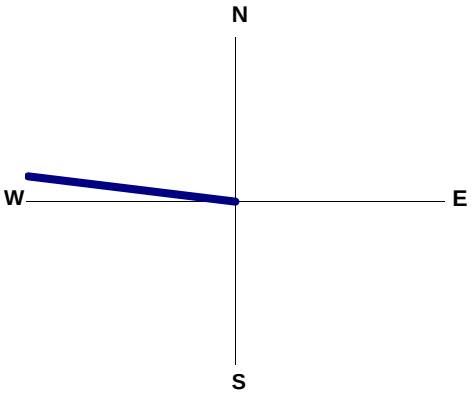


Groundwater Flow Gradient

Date: 1Q2011

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW2	402799.48	3758870.16	33.40
MW3	402931.54	3758376.49	33.70
MW5	402519.71	3758707.96	33.03

Gradient: 0.0015 (dimensionless)

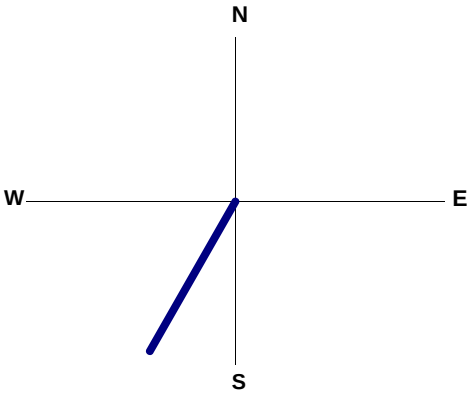


Groundwater Flow Gradient

Date: 1Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW21	400223.26	3756893.99	16.90
MW27A	400902.97	3755901.78	13.43
MW26A	401270.06	3757125.16	20.42

Gradient: 0.0055 (dimensionless)

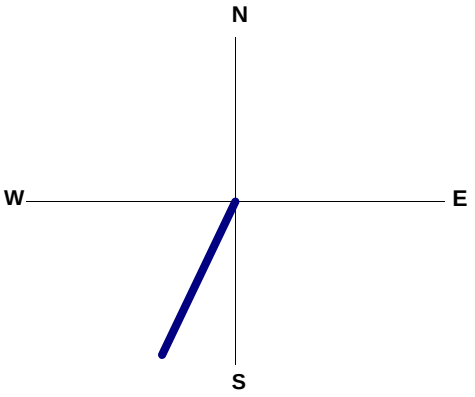


Groundwater Flow Gradient

Date: 3Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW21	400223.26	3756893.99	17.64
MW27A	400902.97	3755901.78	13.49
MW26A	401270.06	3757125.16	21.12

Gradient: 0.0060 (dimensionless)

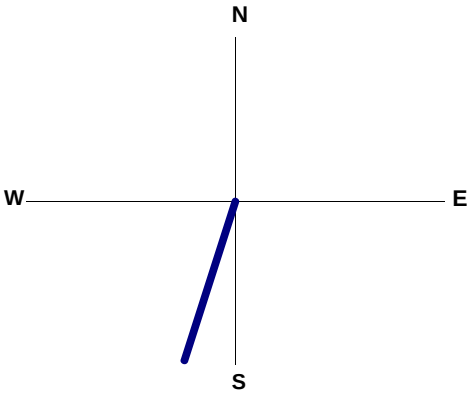


Groundwater Flow Gradient

Date: 1Q2011

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW21	400223.26	3756893.99	18.23
MW27A	400902.97	3755901.78	13.40
MW26A	401270.06	3757125.16	21.13

Gradient: 0.0061 (dimensionless)

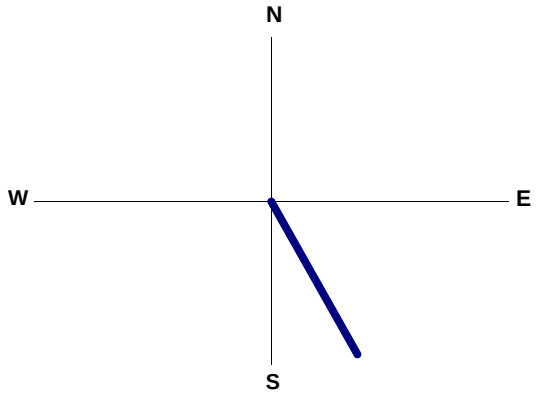


Groundwater Flow Gradient

Date: 1Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW30	401820.19	3753277.41	1.94
MW29	400888.76	3753618.89	5.18
CENCO-W-4	401686.00	3754886.00	9.59

Gradient: 0.0049 (dimensionless)

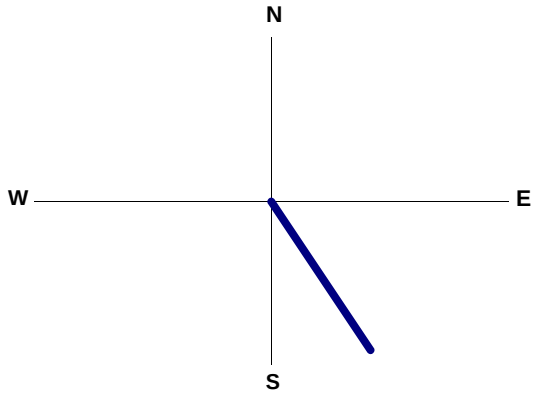


Groundwater Flow Gradient

Date: 3Q2010

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW30	401820.19	3753277.41	1.01
MW29	400888.76	3753618.89	4.75
CENCO-W-4	401686.00	3754886.00	9.12

Gradient: 0.0053 (dimensionless)

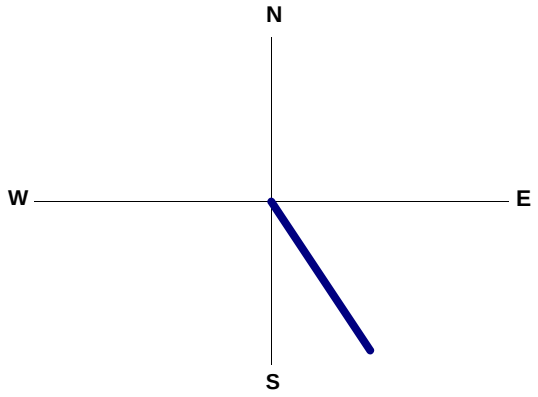


Groundwater Flow Gradient

Date: 1Q2011

Well ID	Easting, x (meters)	Northing, y (meters)	Groundwater Elevation (meters)
MW30	401820.19	3753277.41	2.01
MW29	400888.76	3753618.89	5.06
CENCO-W-4	401686.00	3754886.00	8.63

Gradient: 0.0044 (dimensionless)



Appendix E
VOC Detection Summary: 1Q2010, 3Q2010, and 1Q2011 (on CD only)

This appendix located on attached CD.

Appendix F
OU1 and OU2 Lab Reports
(on CD only)

This appendix located on attached CD.

Appendix G
Data Quality Assessment
(on CD only)

This appendix located on attached CD.

Appendix H
Statistical Plots

Appendix H
Freon Ratios

The ratios of concentrations of Freon 113 (F113) and Freon 11 (F11) have been examined to assess indications of potential sources of Freons other than the former Omega facility.

Both F11 and F113 are stable compounds that do not degrade in groundwater. Their sorption characteristics are similar and, furthermore, sorption is not substantial in the sandy aquifer materials present at OU2. These characteristics support the expectation of a (relatively) constant F113/F11 ratio in a plume resulting from a single source at OU2. The ratio of their concentrations would be expected to remain constant in the absence of sampling, analytical, and any other variation.

It can be reasonably expected that the source at Omega OU1 is well-mixed and the Freon ratio at OU1 was fairly uniform over time as a result of the release of mixed waste into soil. If there is another substantial source of either F11 or F113 somewhere at OU2 downgradient from OU1, the ratio of F113/F11 in groundwater is expected to be different downgradient of that source. A source of both F11 and F113 but with a different mix than those at OU1 would have a similar effect.

Table H1 summarizes the 54 wells for which detected F113 and F11 could be used to formulate ratios. The table includes sample count, ratio range and average, along with trend test results. Figure H1 displays the 54 well-specific boxplots, sorted by rank [as determined by the relative averages across the wells], in order to display relative differences. The tabled values and boxplots support the following observations:

- The majority of wells [n=50] exhibit average values ranging between 1.1 and 4.3. Boxplots of these wells exhibit comparatively narrow distributions of ratios within individual wells with the glaring exception of MW11.
- Four wells exhibit atypically elevated average ratios, well in excess of the 5.3 maximum of the remaining 50 wells, including: MW7, OW4B, MW27A and MW23B. Averages range between 7.1 and 19.7 with maximum values as high as 30.3 [MW27B]. The extreme differences in ratio values indicate differences at these 4 locations, of, potentially, source material and/or localized water quality.
- Of the 43 wells with sufficient observations to support trend testing [excluding 11 wells with insufficient record counts], 9 exhibit statistically significant trends over the period of record within the well; all trends indicated being decreasing trends. Wells exhibiting decreasing trends include [in decreasing ratio rank]: MW1A, MW1B, OW8A, OW5, OW1B, OW9, MW2, MW20A and OW7.
- Note that none of the wells exhibiting elevated levels of FC113|FC11 ratios exhibit decreasing trends.

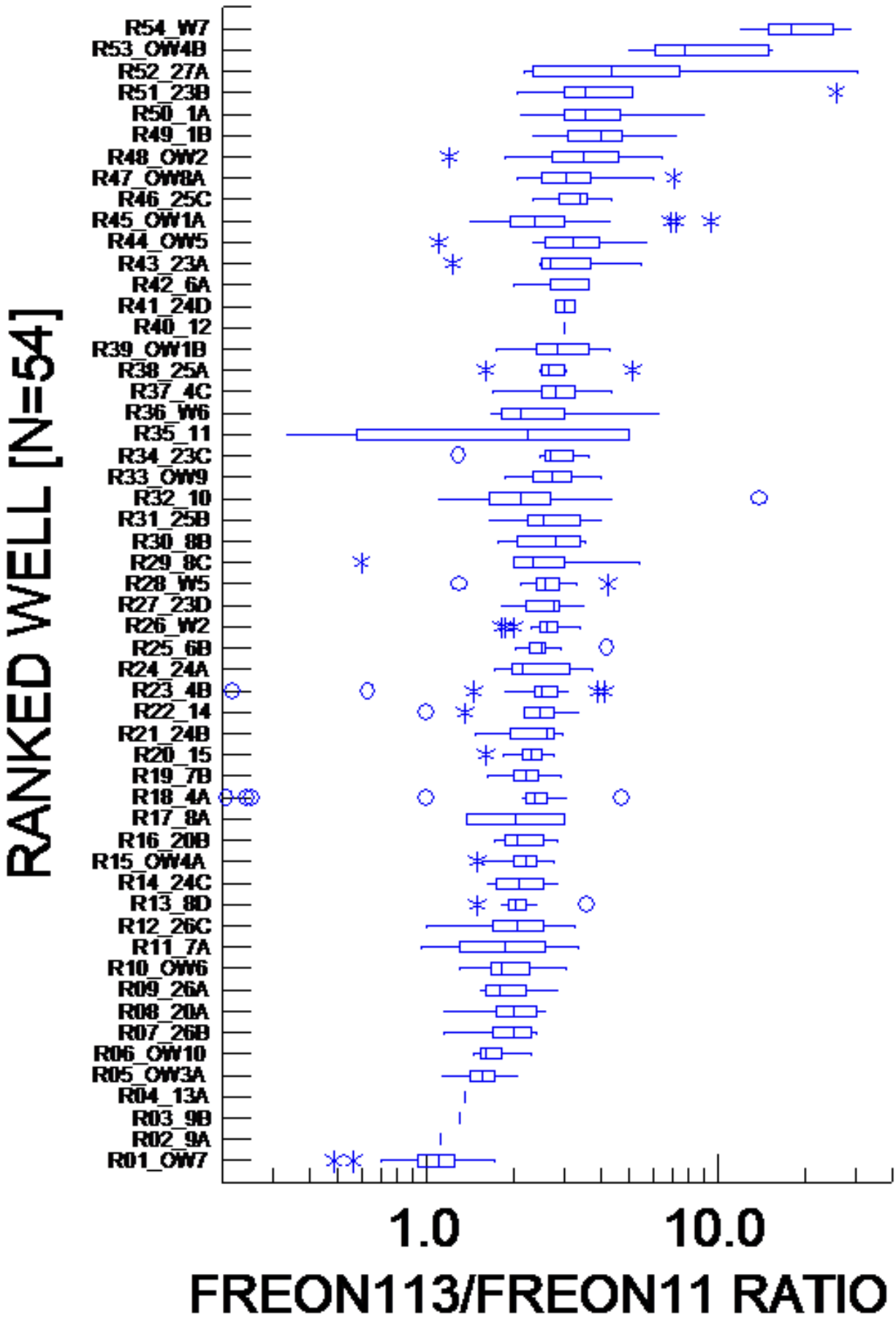
Certain limitations to this analysis exist, summarized as follows:

- Record counts (that is, the number of data points) differ widely among the wells. The counts themselves are not so much the issue; rather, the different lengths of monitoring

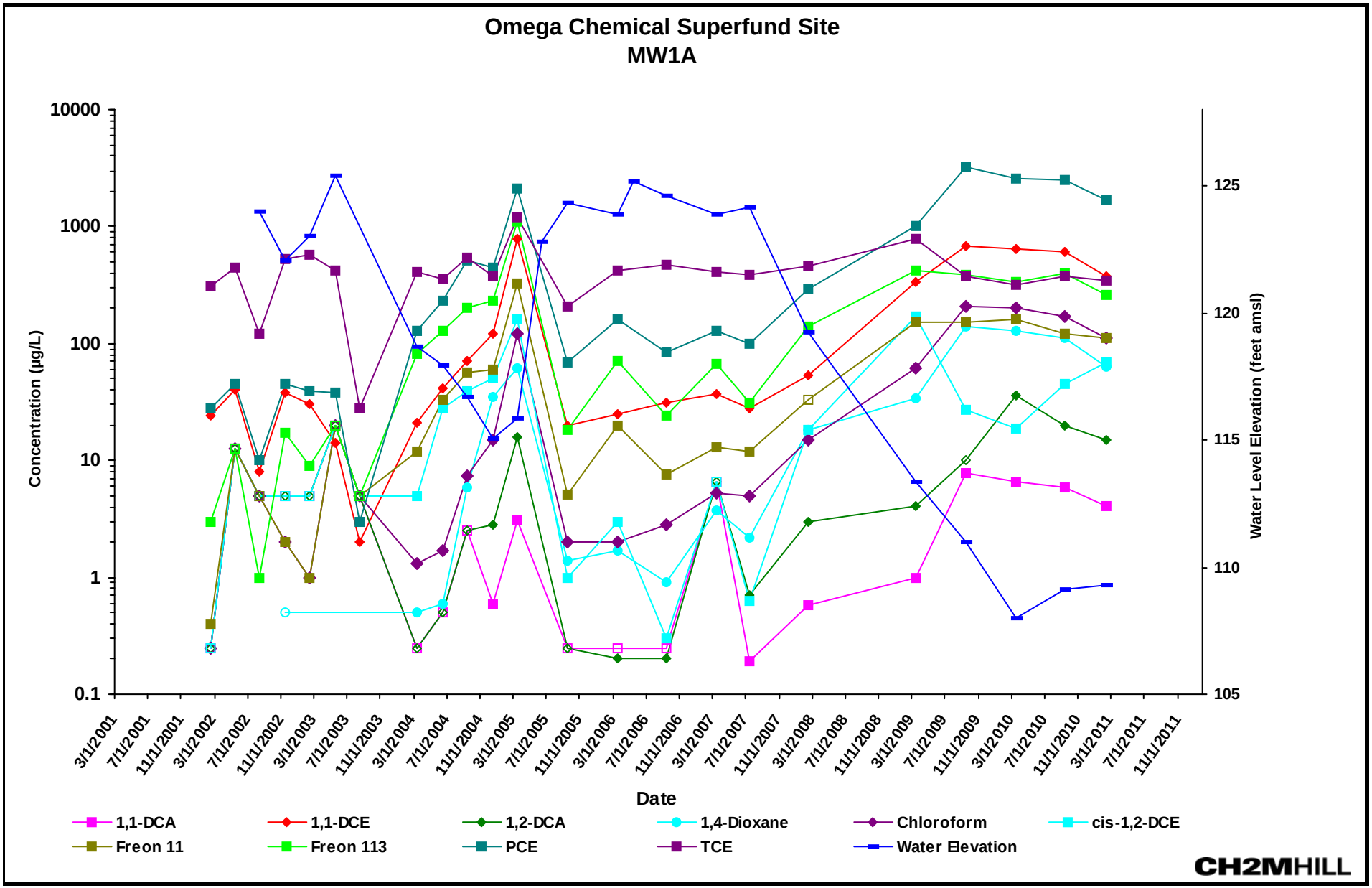
records for some wells may affect the representativeness of the results (the lengths of records depend on the time of the well installation, which varies from 1996 to 2009). As the monitoring at OU2 continues, eventually it will be possible to use the same record length for each well. However, both summary statistics and trend evaluations are focused less on characterization as on looking for differences in ratios. Consequently, utilizing all results, particularly for the trend tests, was deemed appropriate [in contrast to the trend test for the volatile organics which were constrained to a common, more recent period of observation: 2006-2011.

- The accuracy of a ratio is comparatively lower given measurement uncertainties in the quantification of both F113 and F11 concentrations. For example, if 15 µg/L can truly represent concentrations between 12 and 18, a ratio of 1 (F113 and F11 concentrations both reported at 15) means the ratio could actually be as low as 0.67 and as high as 1.5. That is not accounted for in the presented evaluation but is clearly a generic problem in the use of ratios.
- The potential relationship of a ratio to the magnitude of the concentrations is also not accounted for above. If the laboratory method accuracy and precision vary as a function of concentration, the ratios are not independent of concentration.
- Ratios often give rise to unusual distributions (non-normal). Ratios of concentrations, which are typically not normally distributed, are likely to not exhibit a normal distribution.

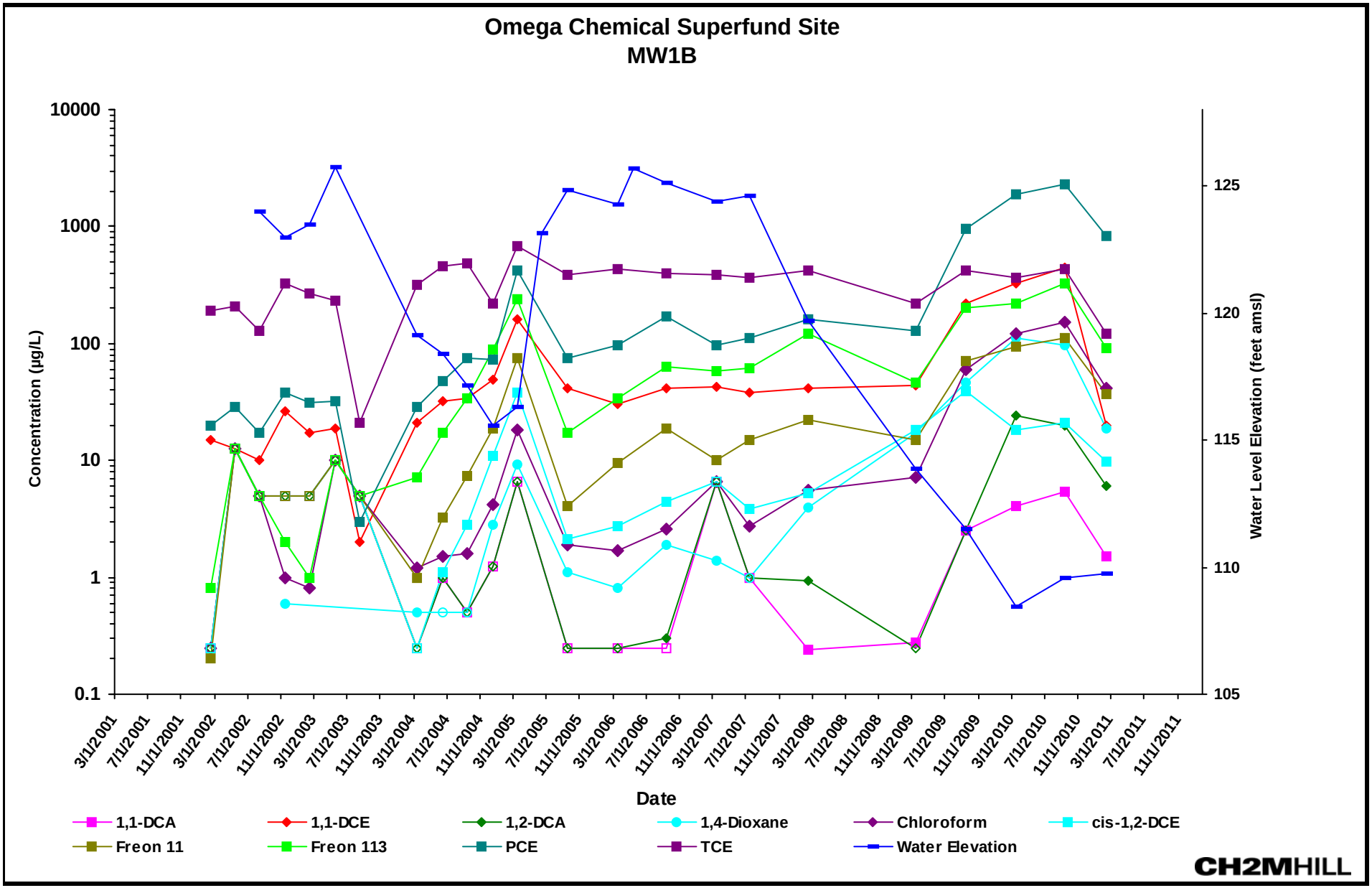
Box Plots for Freon Concentration Ratios (Freon 113/Freon 11)


RANKED WELL [N=54]
R54_W7
R53_OW4B
R52_27A
R51_23B
R50_1A
R49_1B
R48_OW2
R47_OW8A
R46_25C
R45_OW1A
R44_OW5
R43_23A
R42_6A
R41_24D
R40_12
R39_OW1B
R38_25A
R37_4C
R36_W6
R35_11
R34_23C
R33_OW9
R32_10
R31_25B
R30_8B
R29_8C
R28_W5
R27_23D
R26_W2
R25_6B
R24_24A
R23_4B
R22_14
R21_24B
R20_15
R19_7B
R18_4A
R17_8A
R16_20B
R15_OW4A
R14_24C
R13_8D
R12_26C
R11_7A
R10_OW6
R09_26A
R08_20A
R07_26B
R06_OW10
R05_OW3A
R04_13A
R03_9B
R02_9A
R01_OW7
1.0
10.0
FREON113/FREON11 RATIO

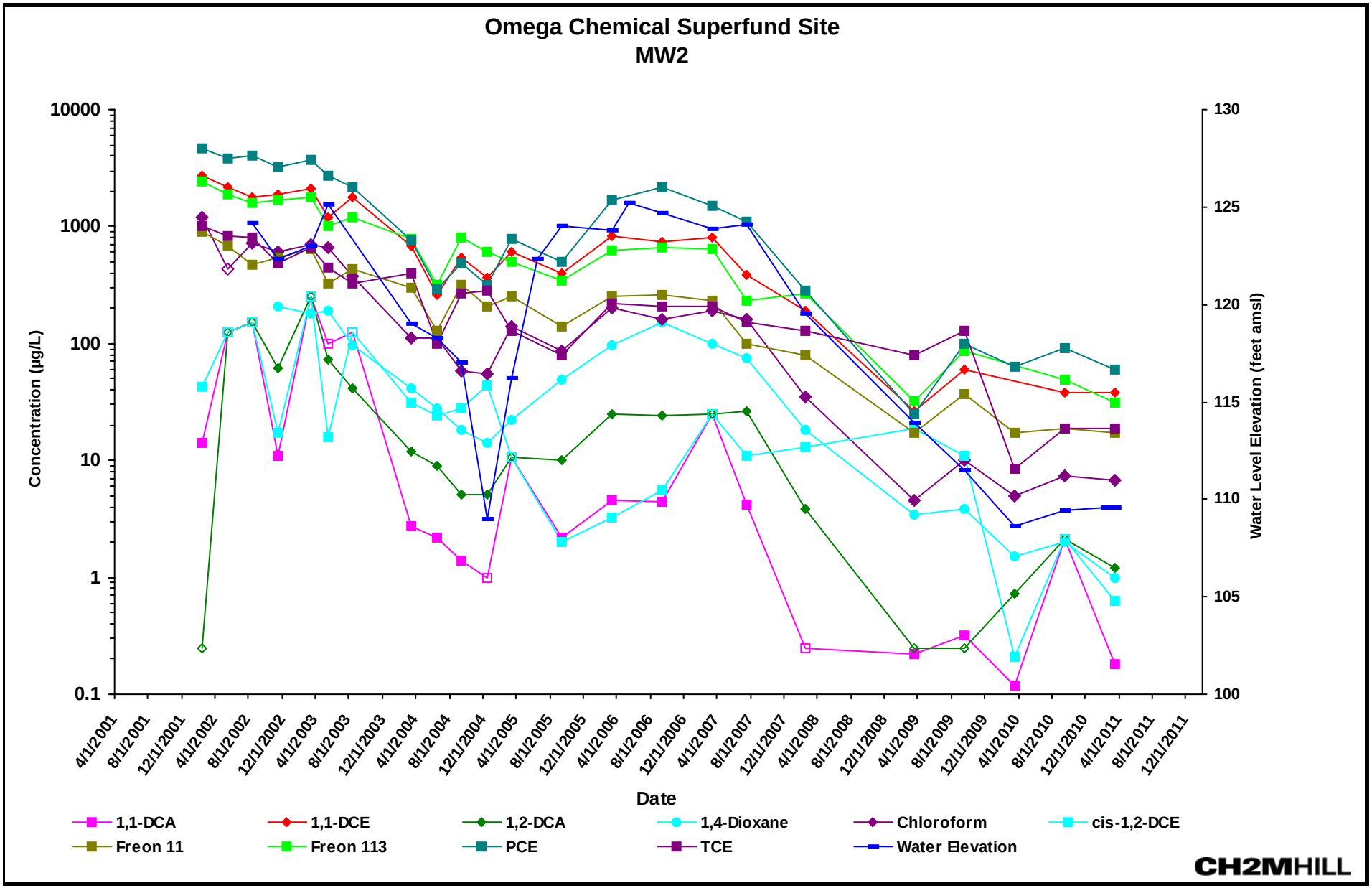
Appendix I
VOC Time Series Plots



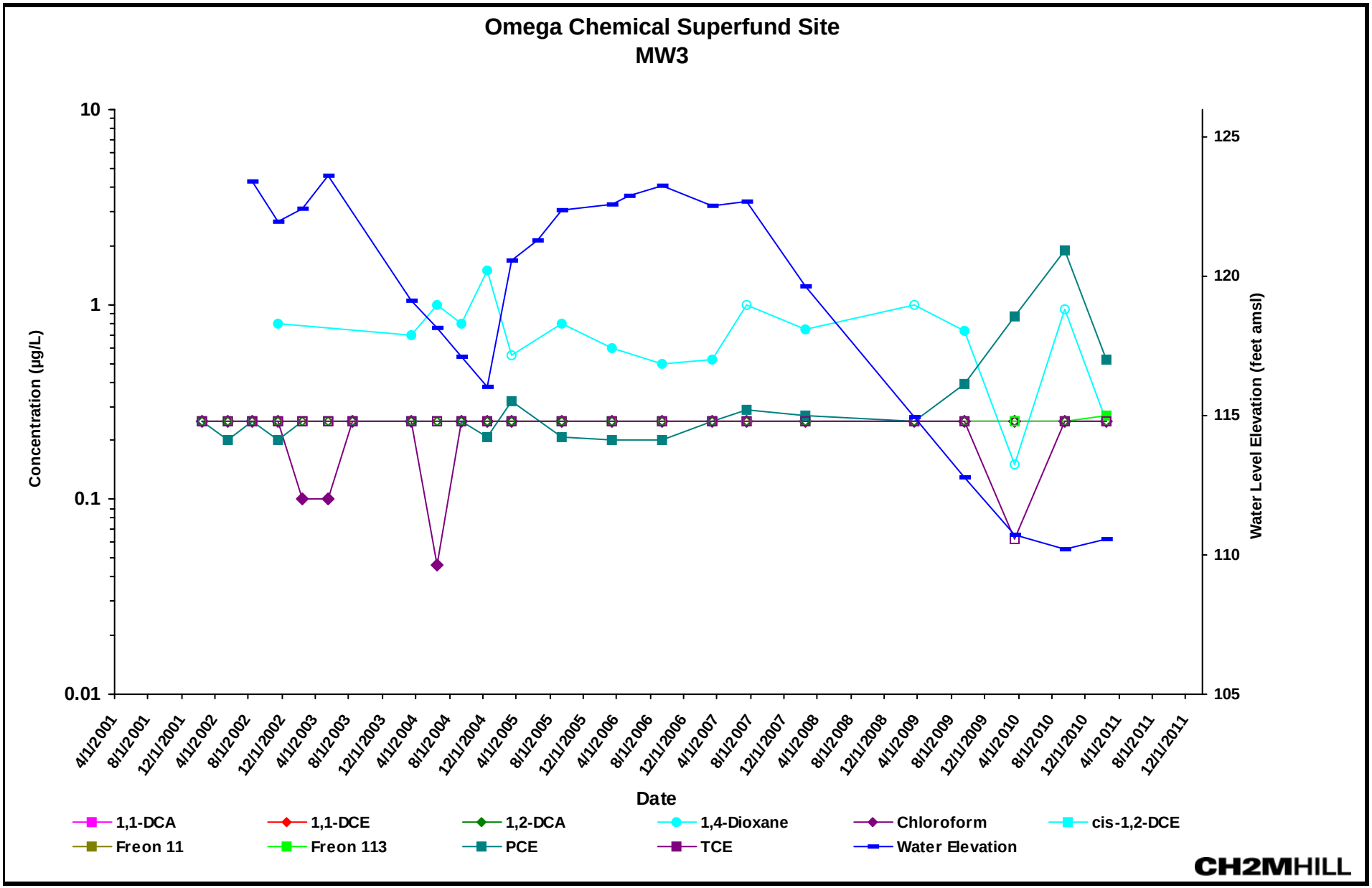
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
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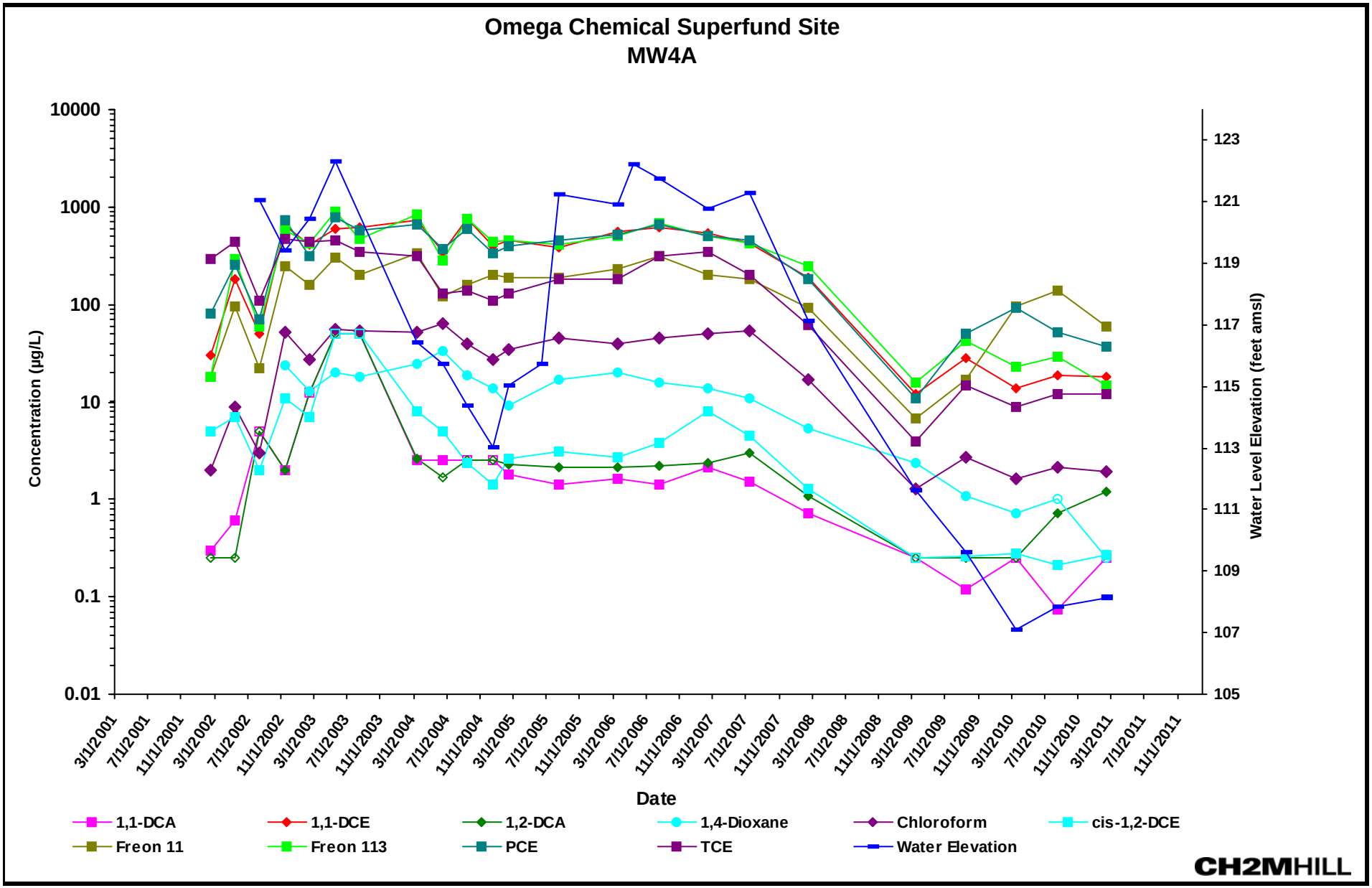
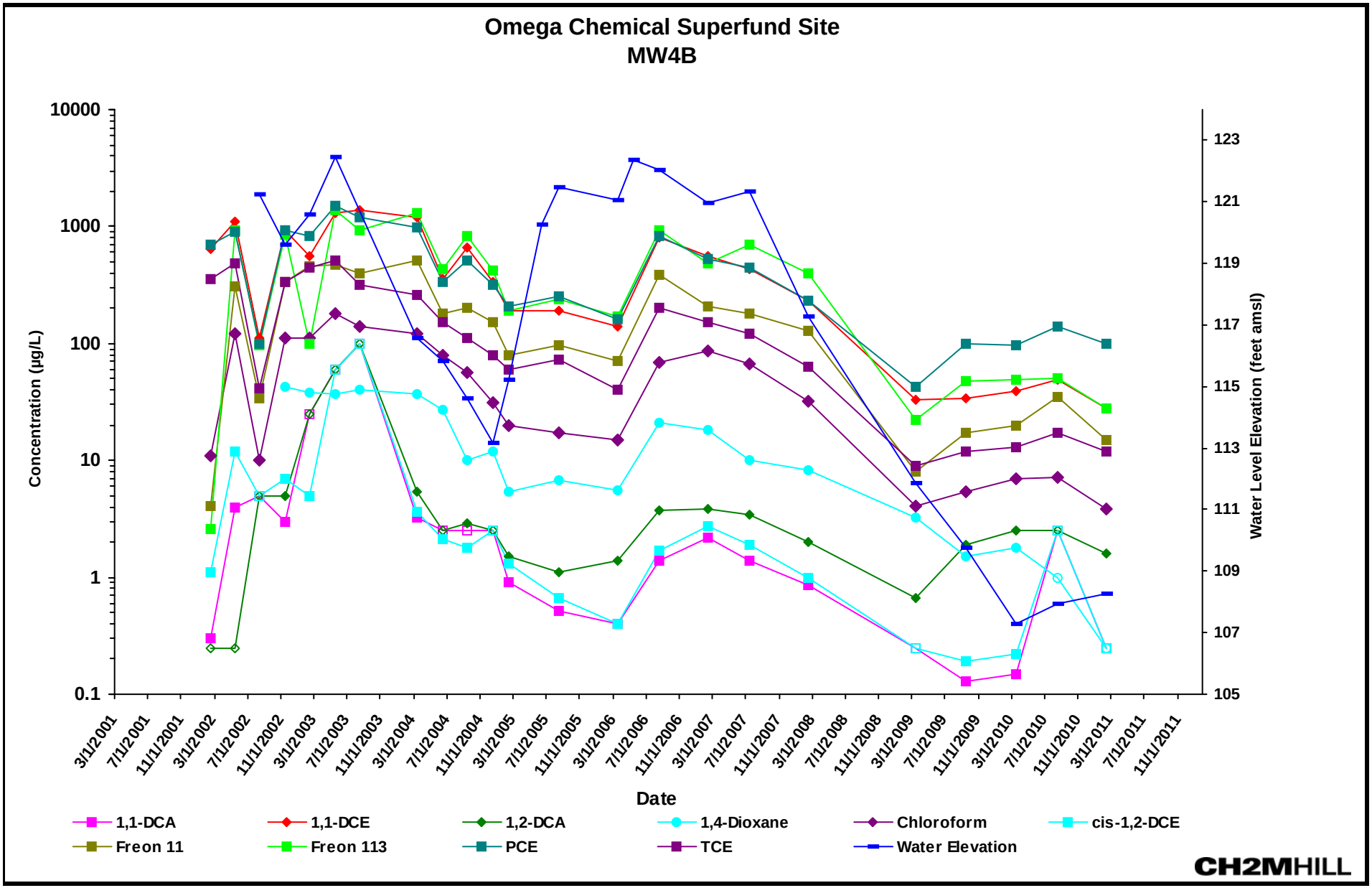
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
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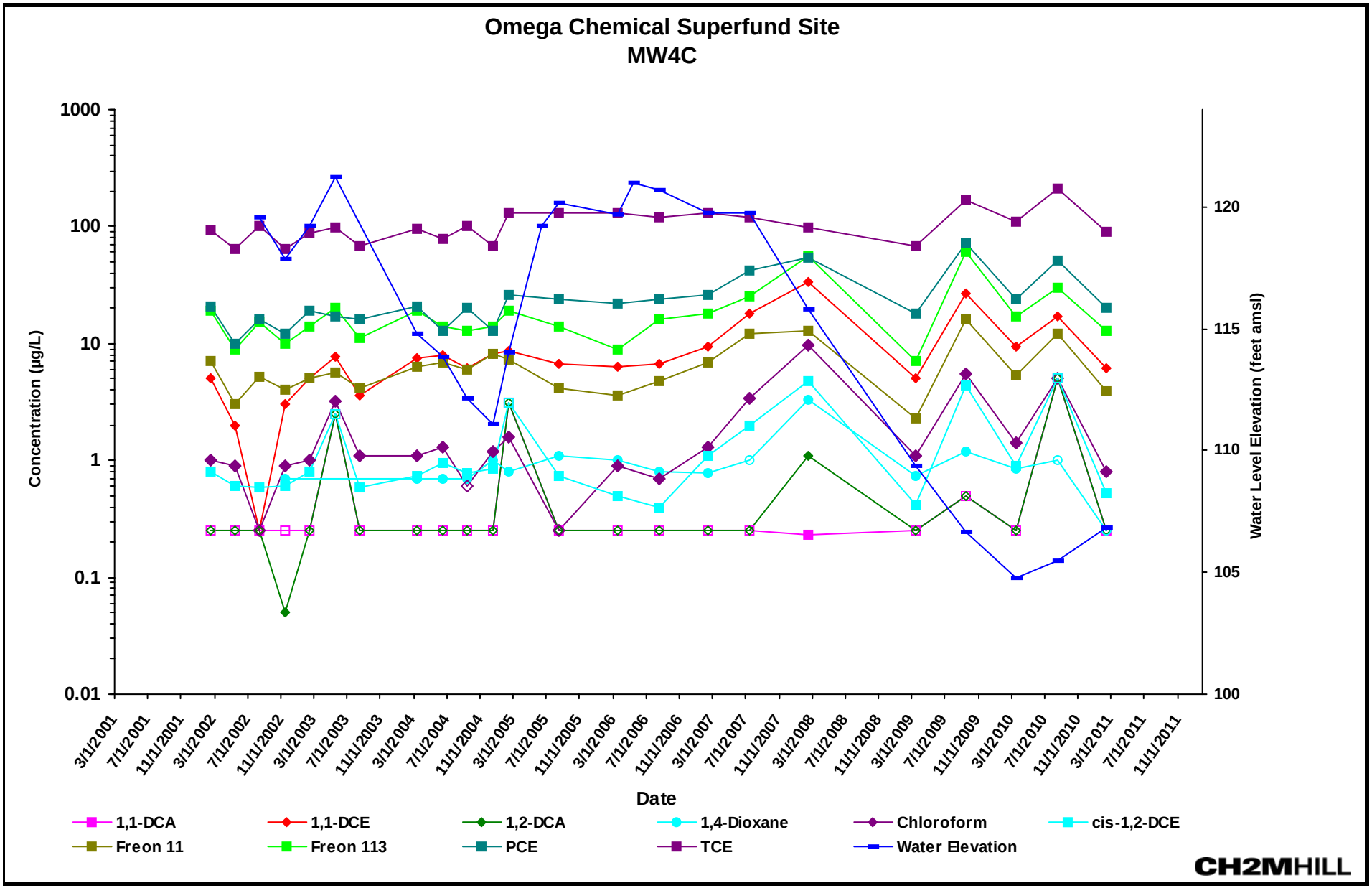
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
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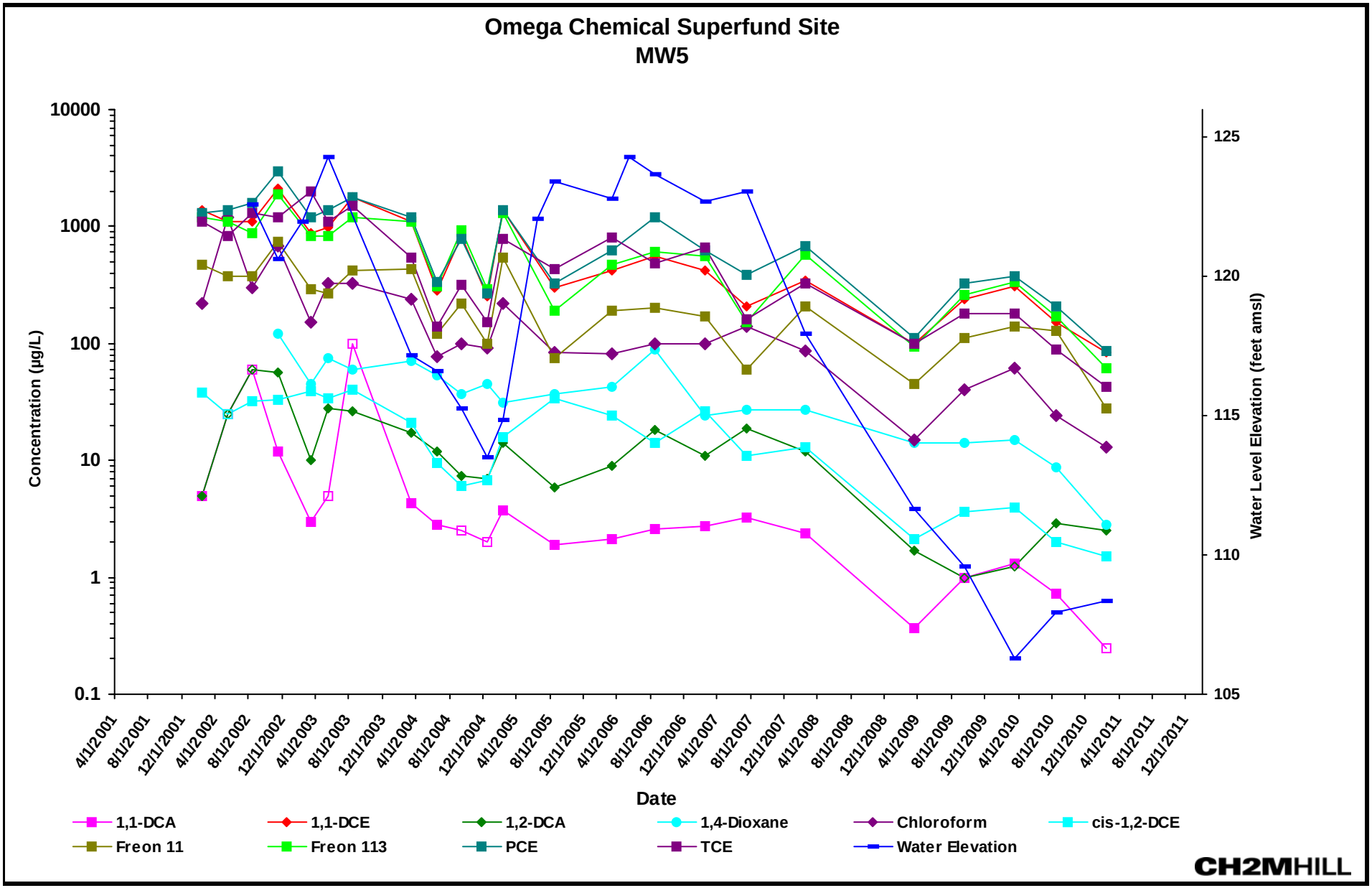
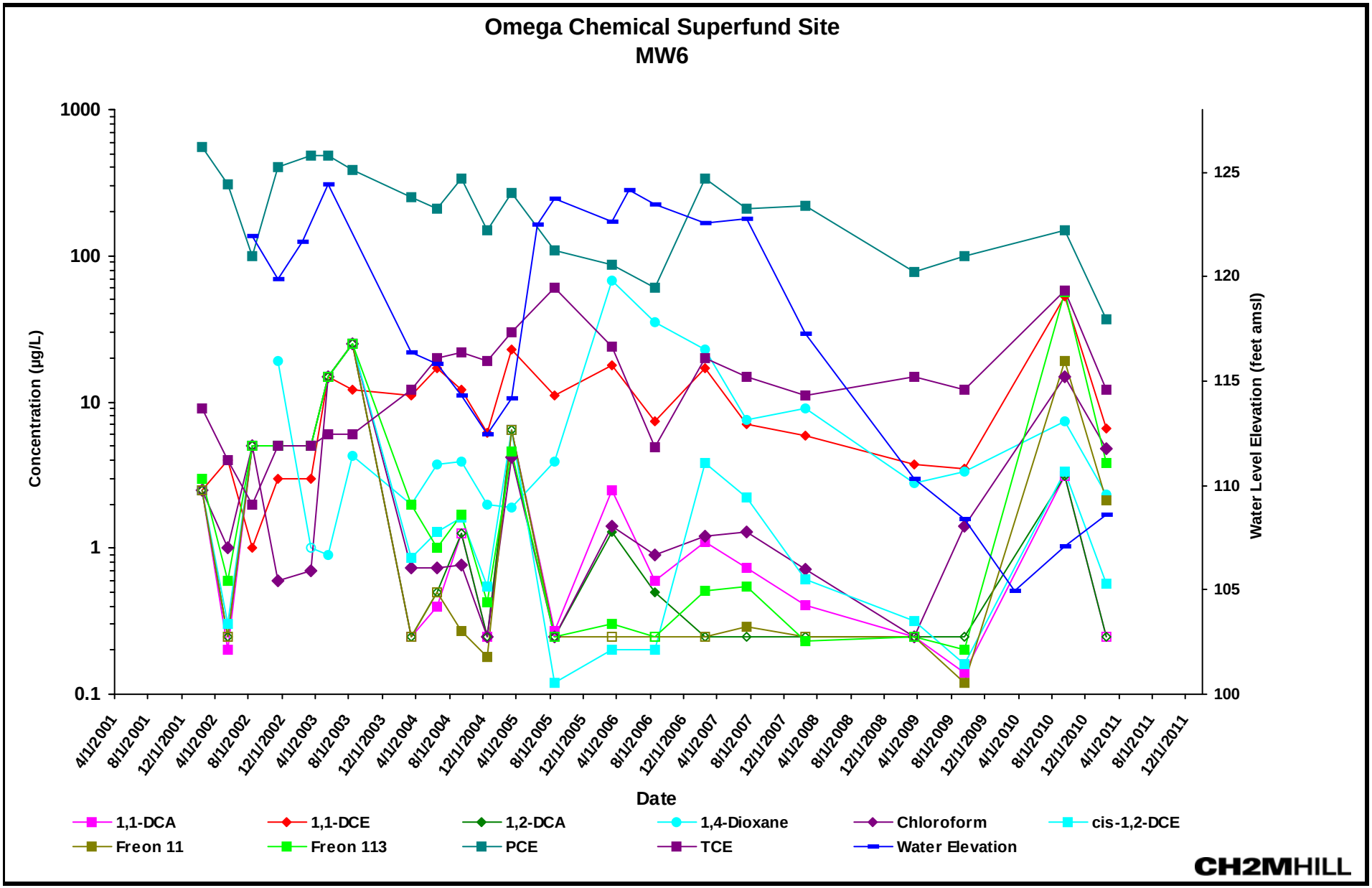
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
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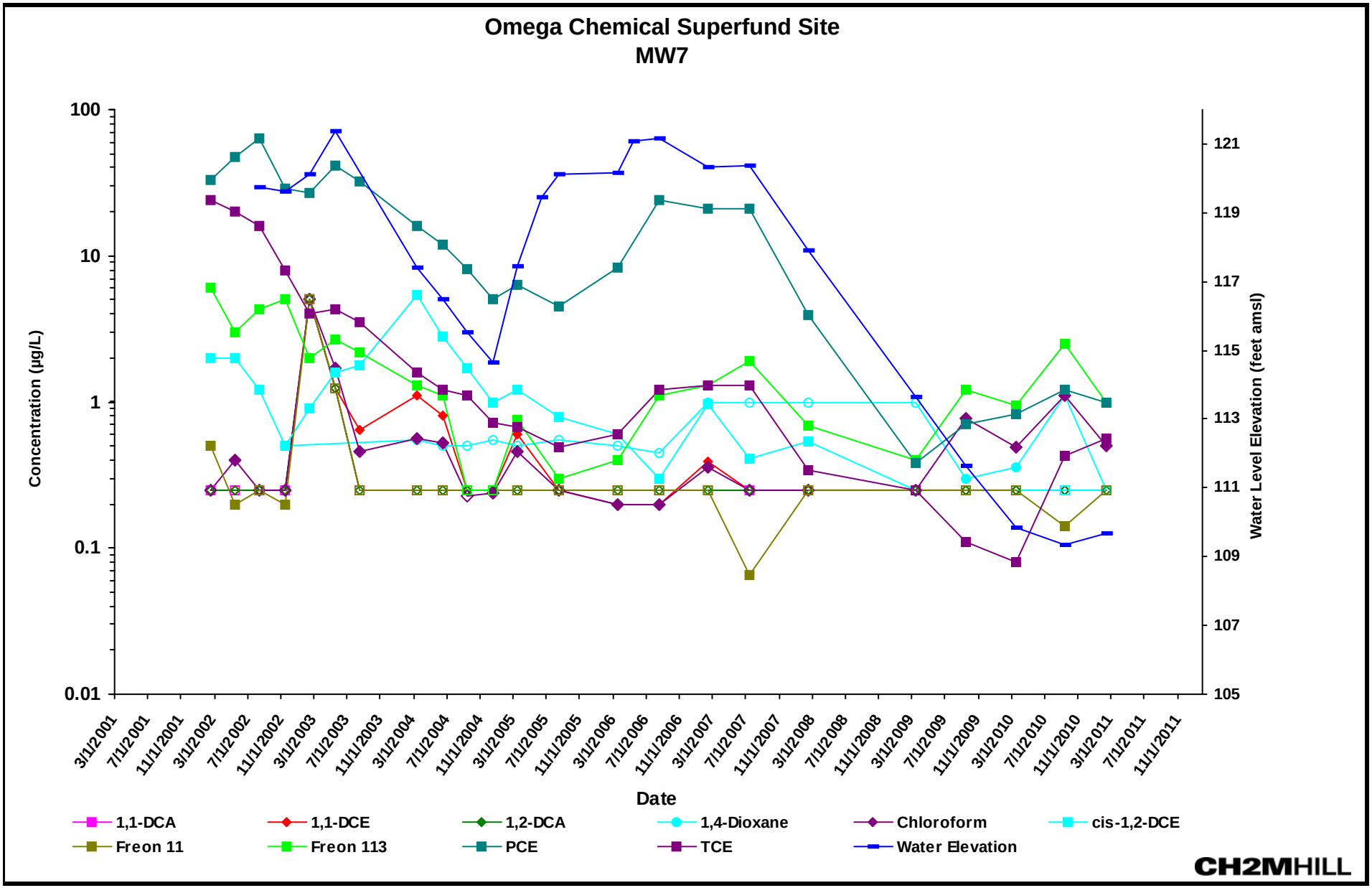
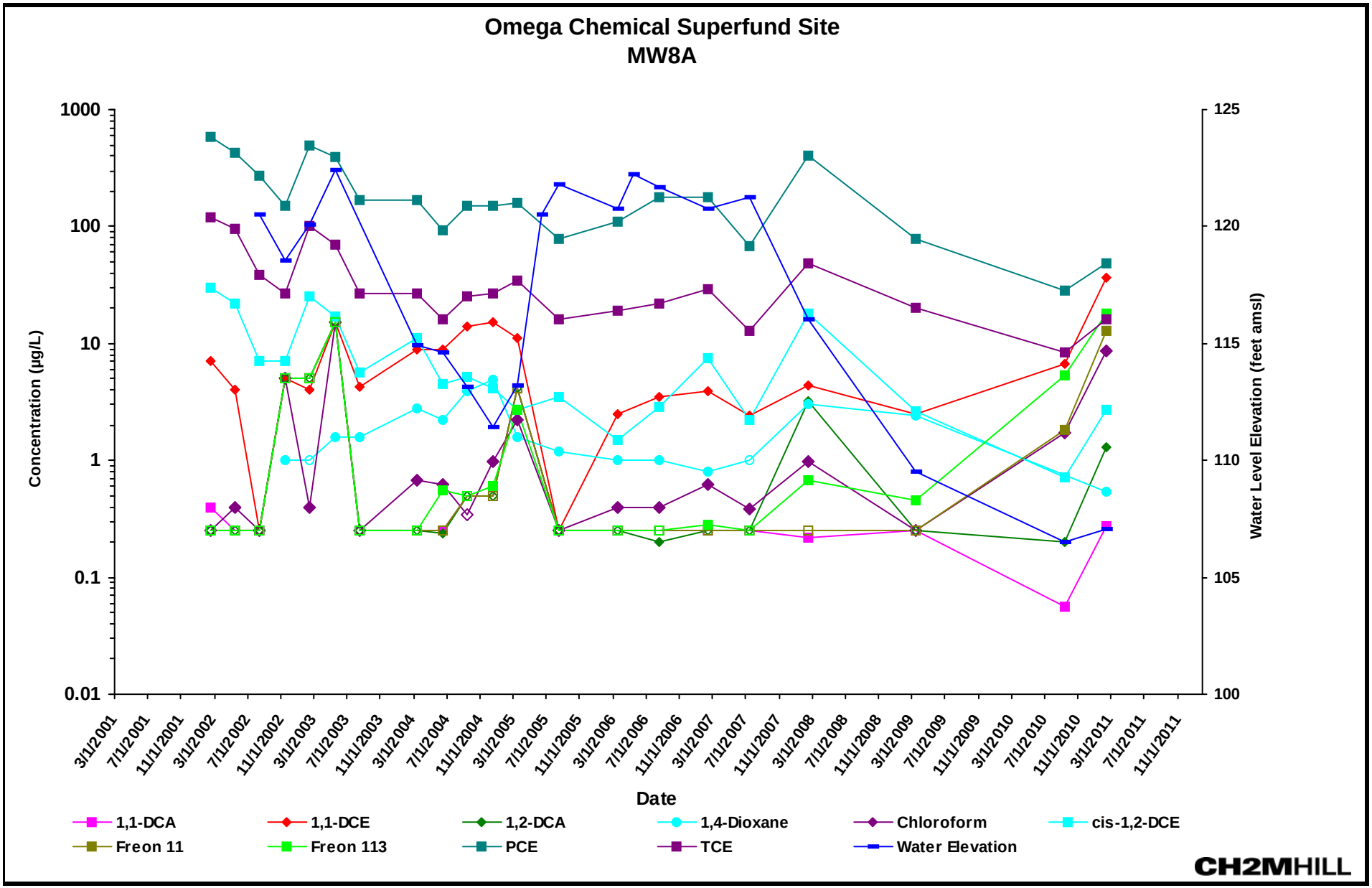
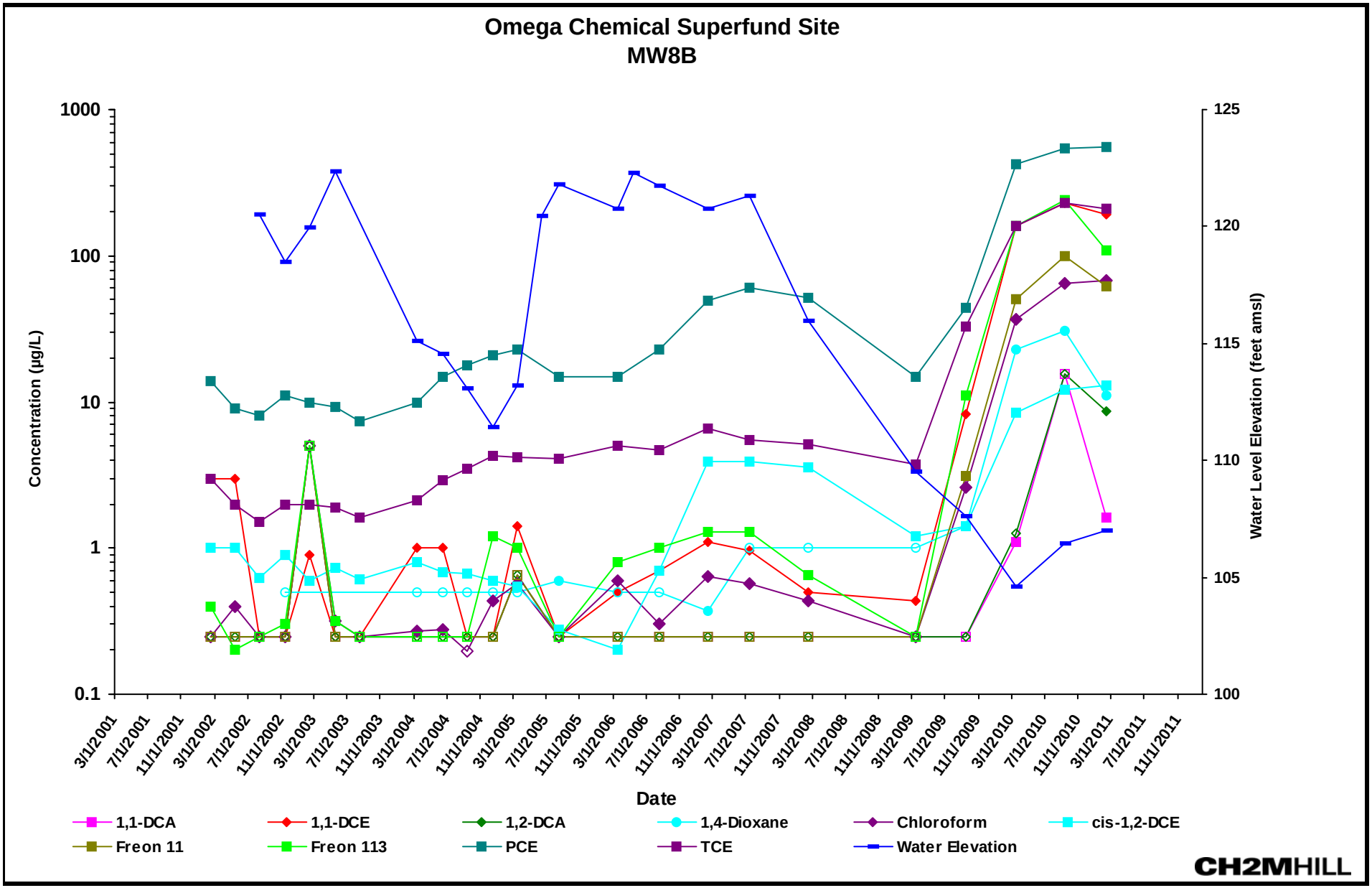
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



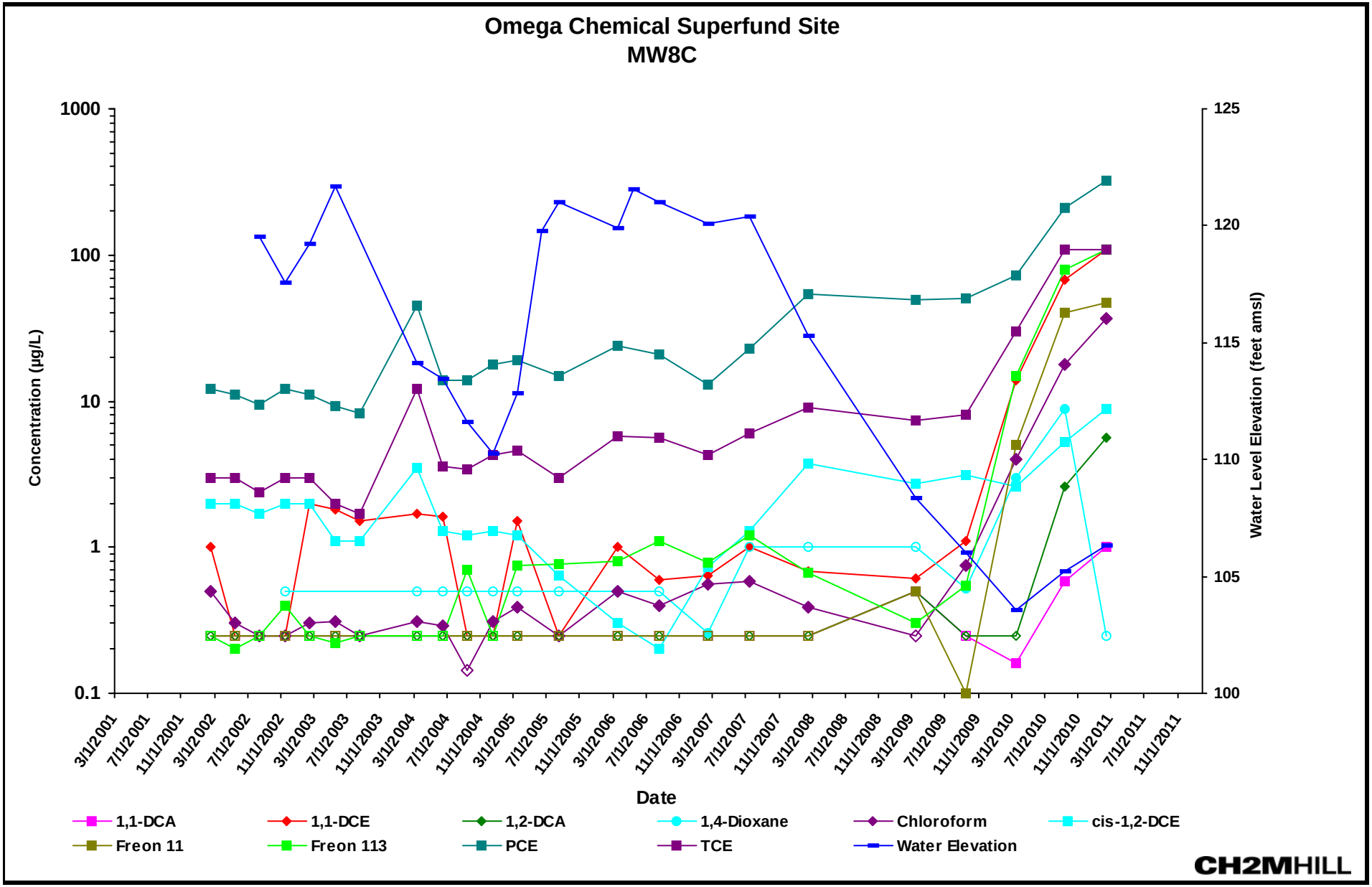
Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
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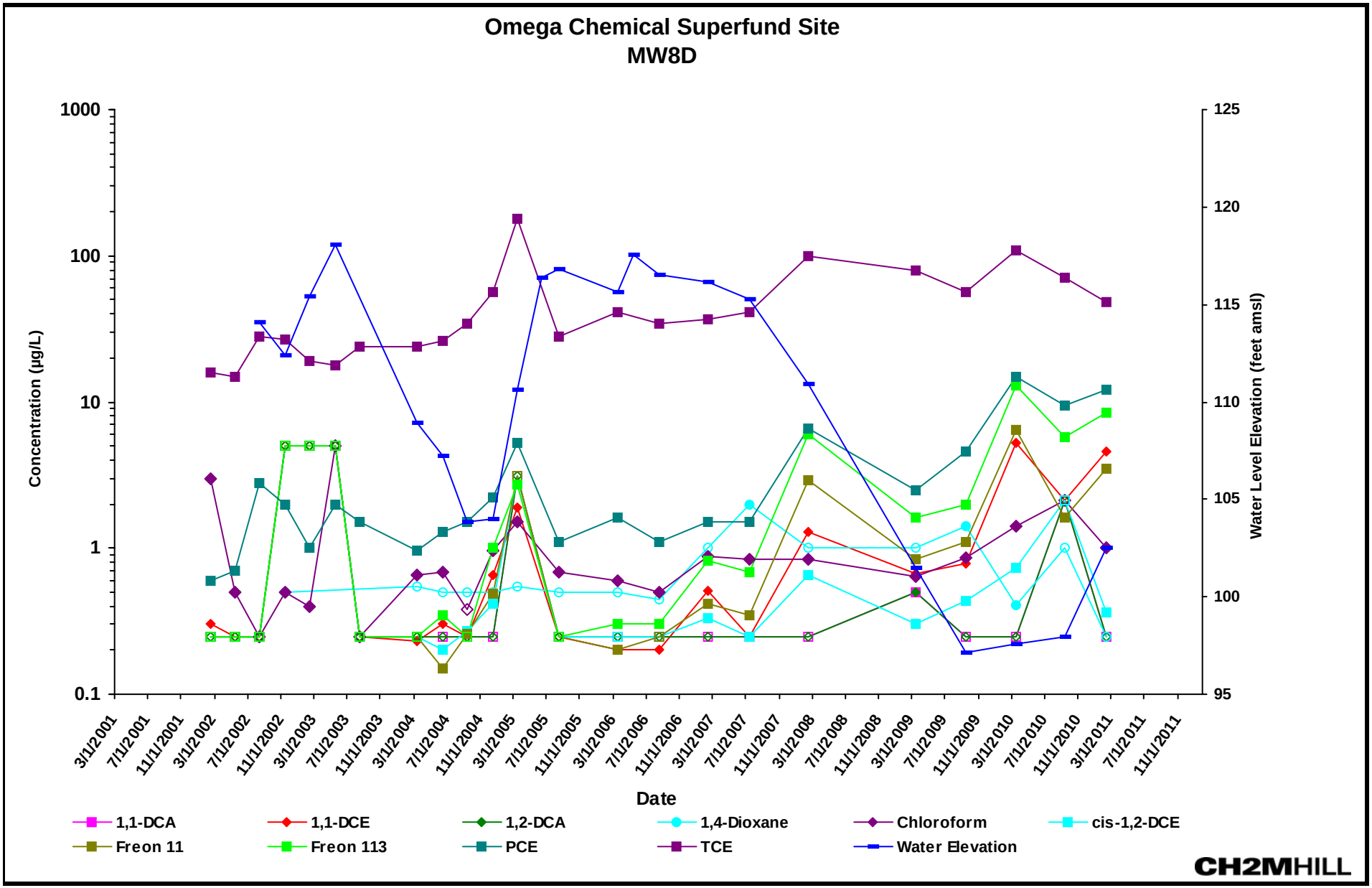

Notes:
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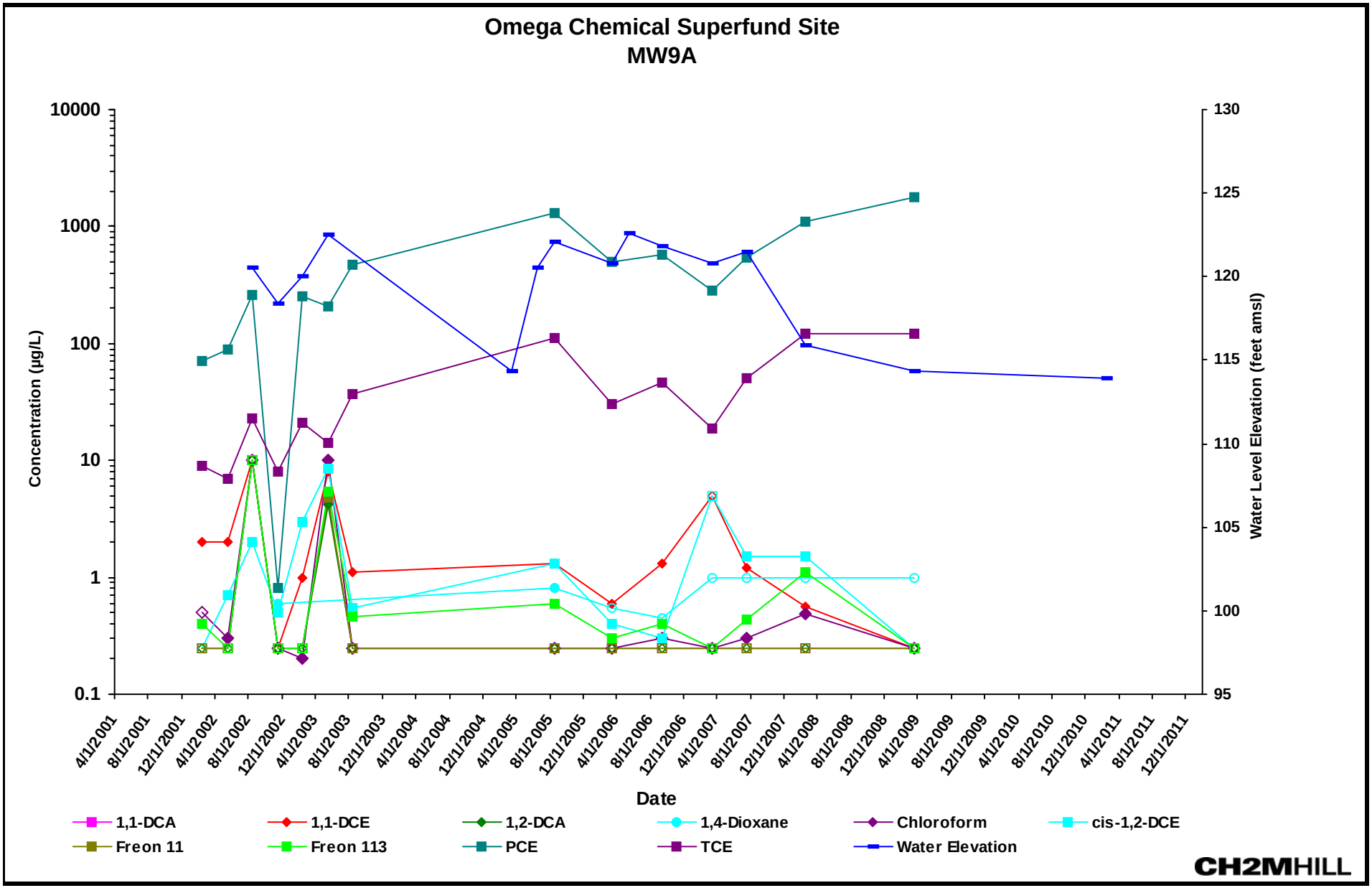

Notes:
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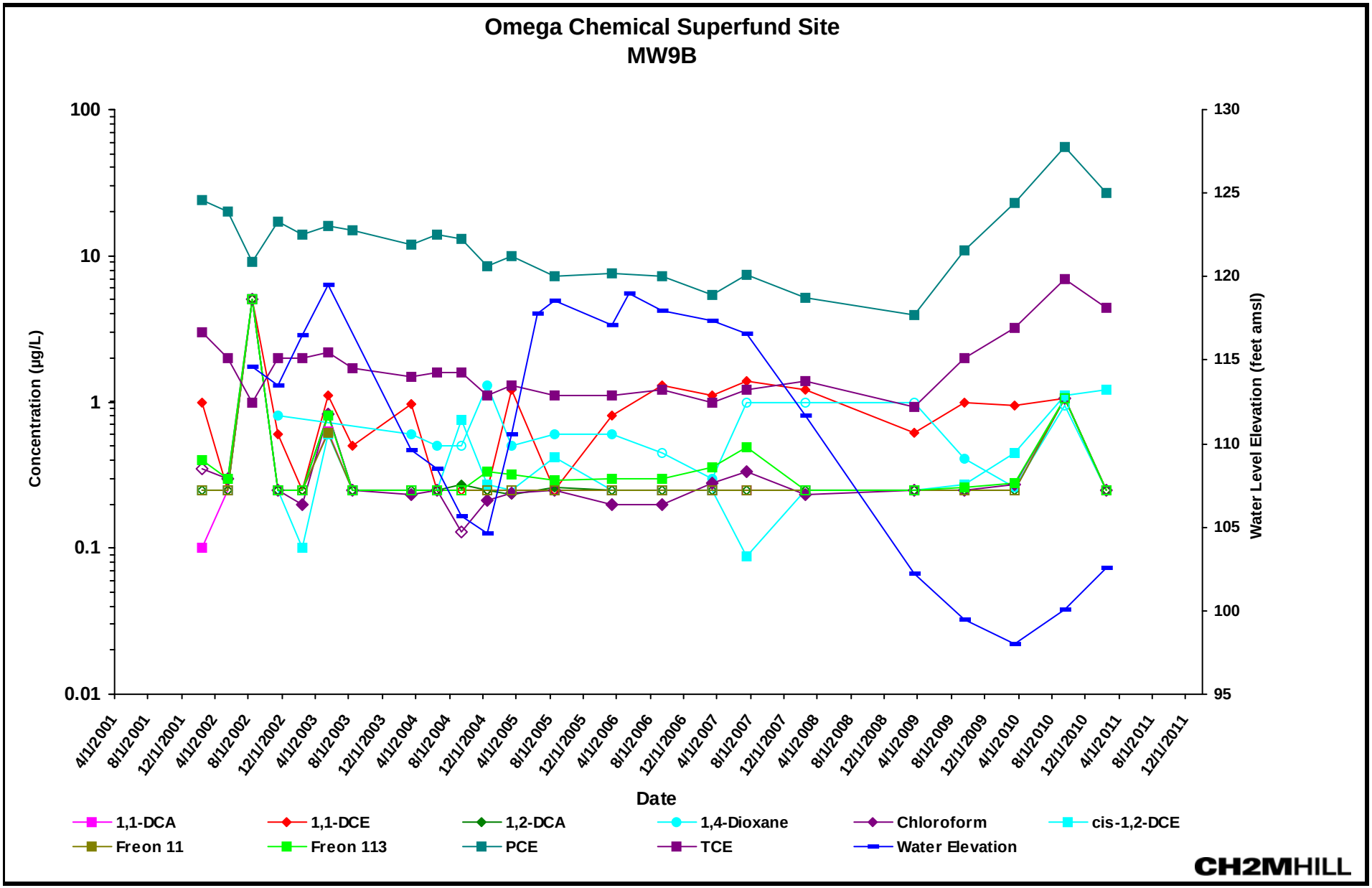

Notes:
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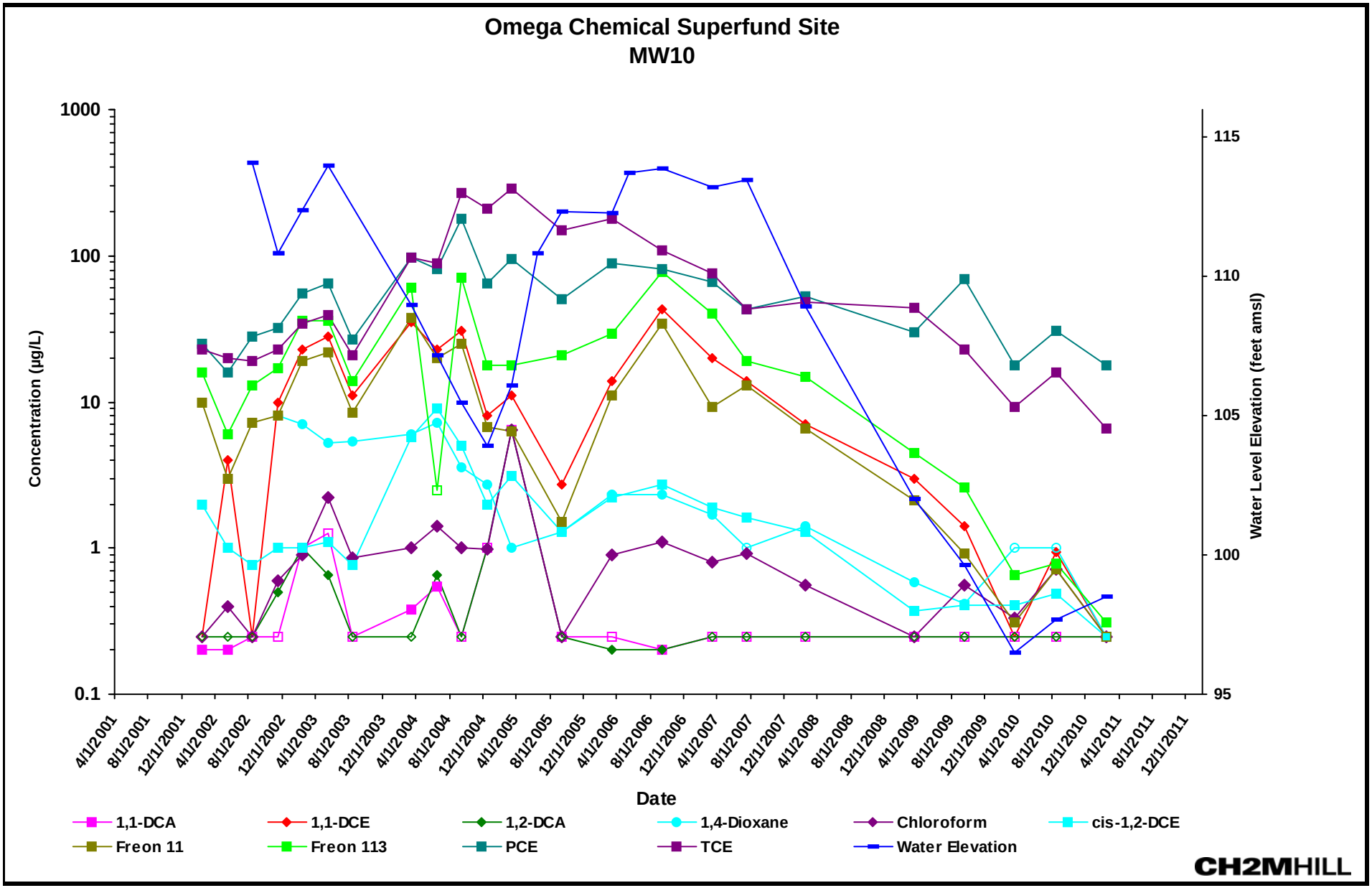

Notes:
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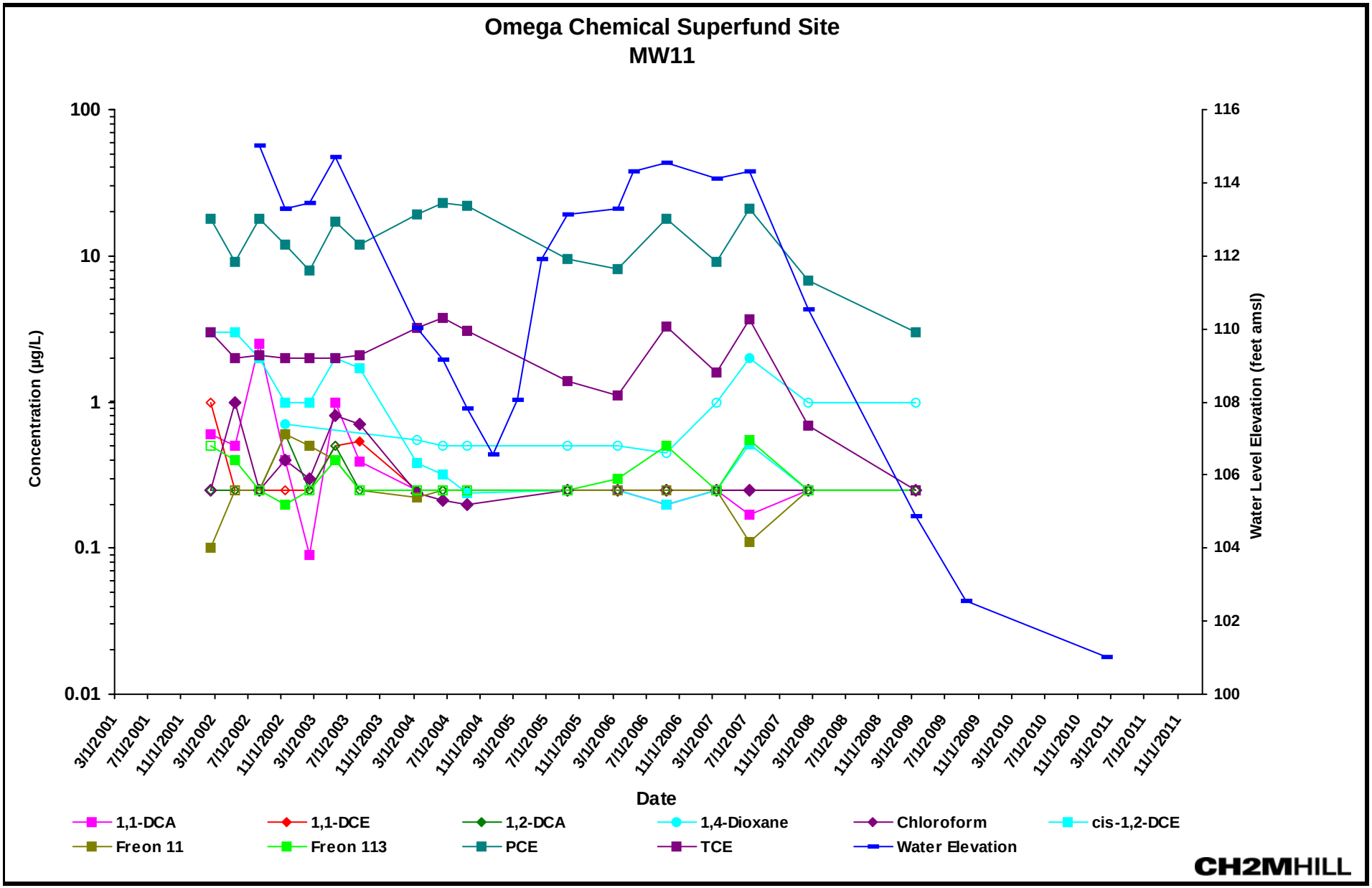

Notes:
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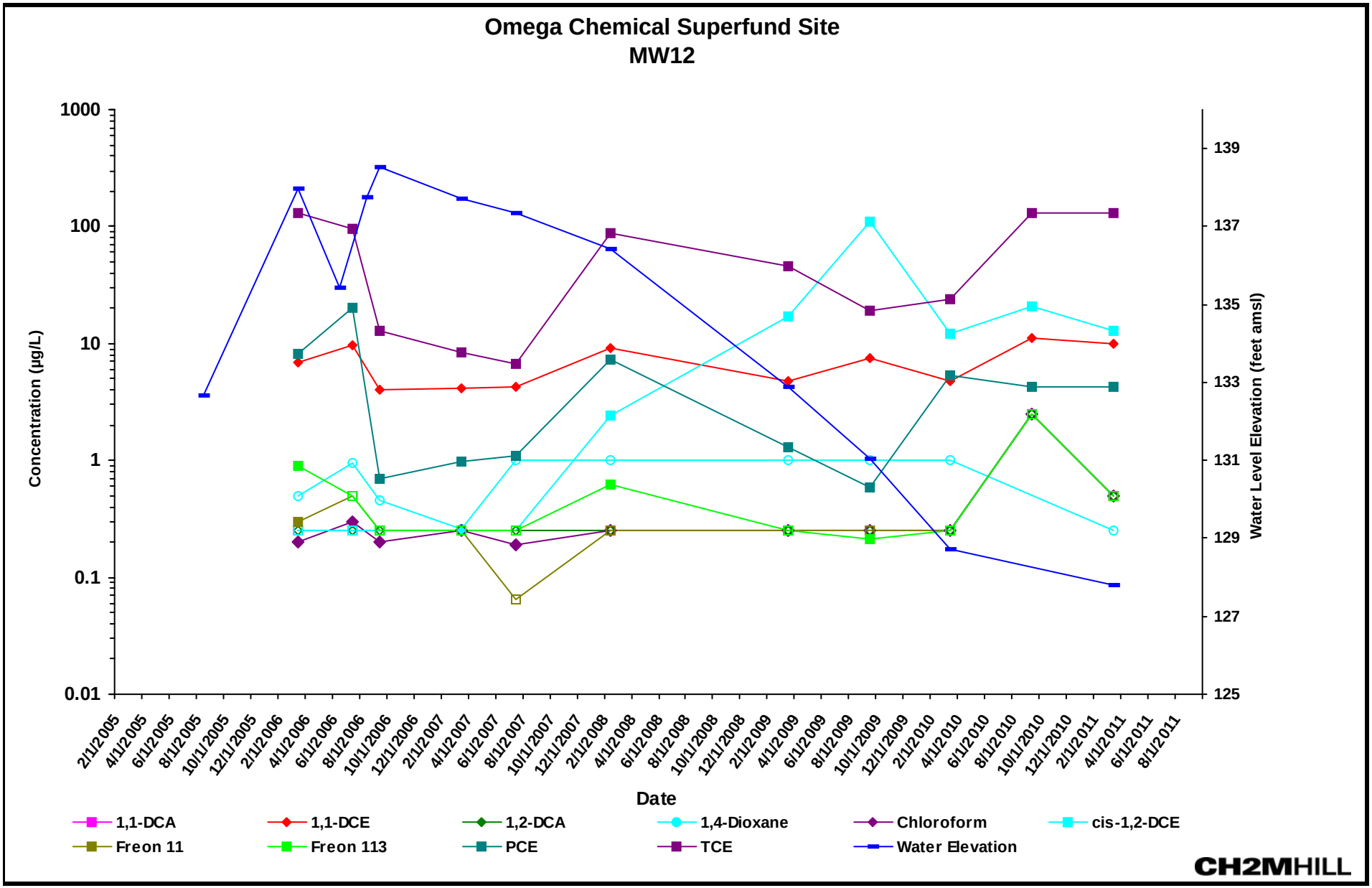

Notes:
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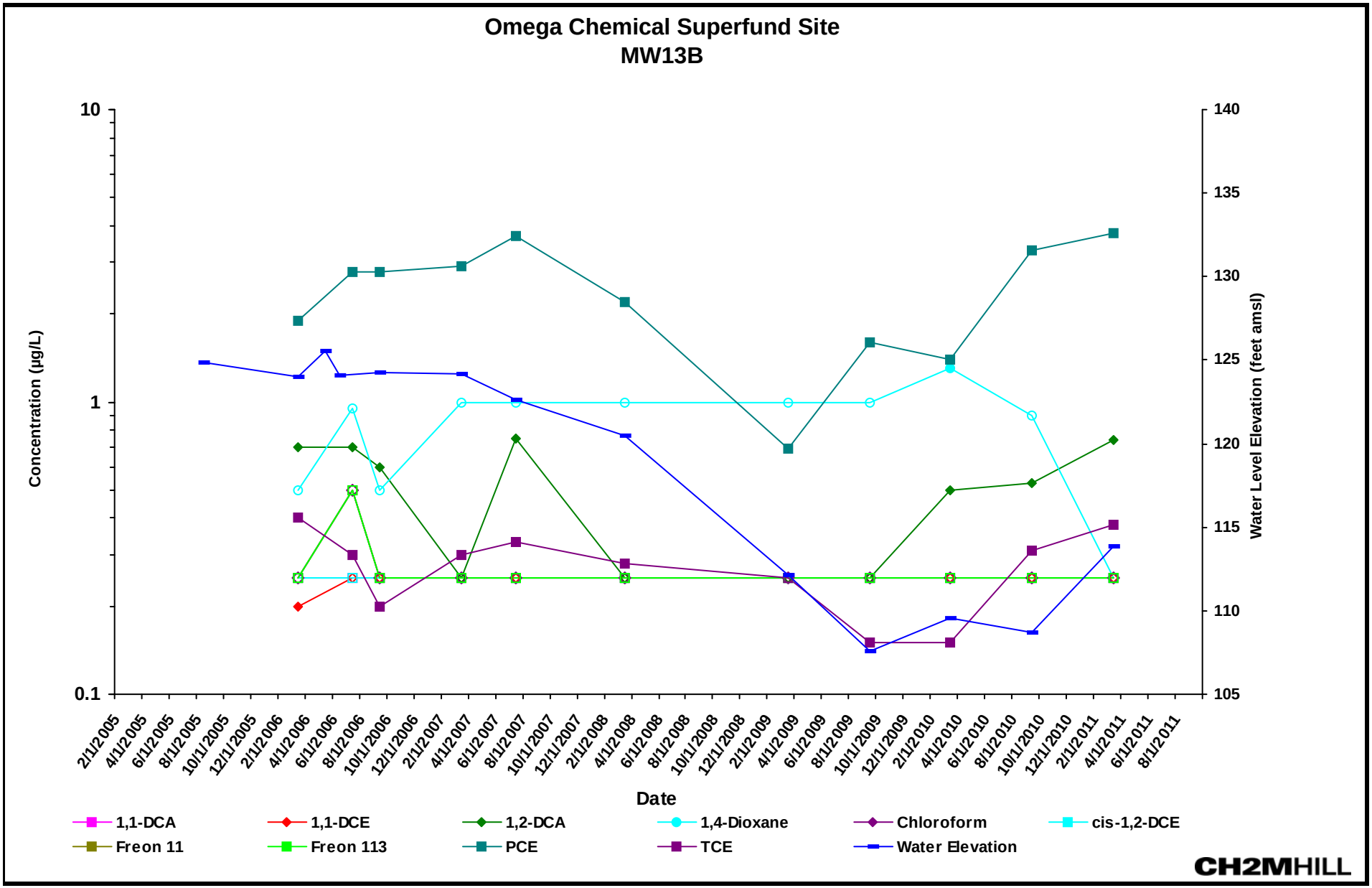

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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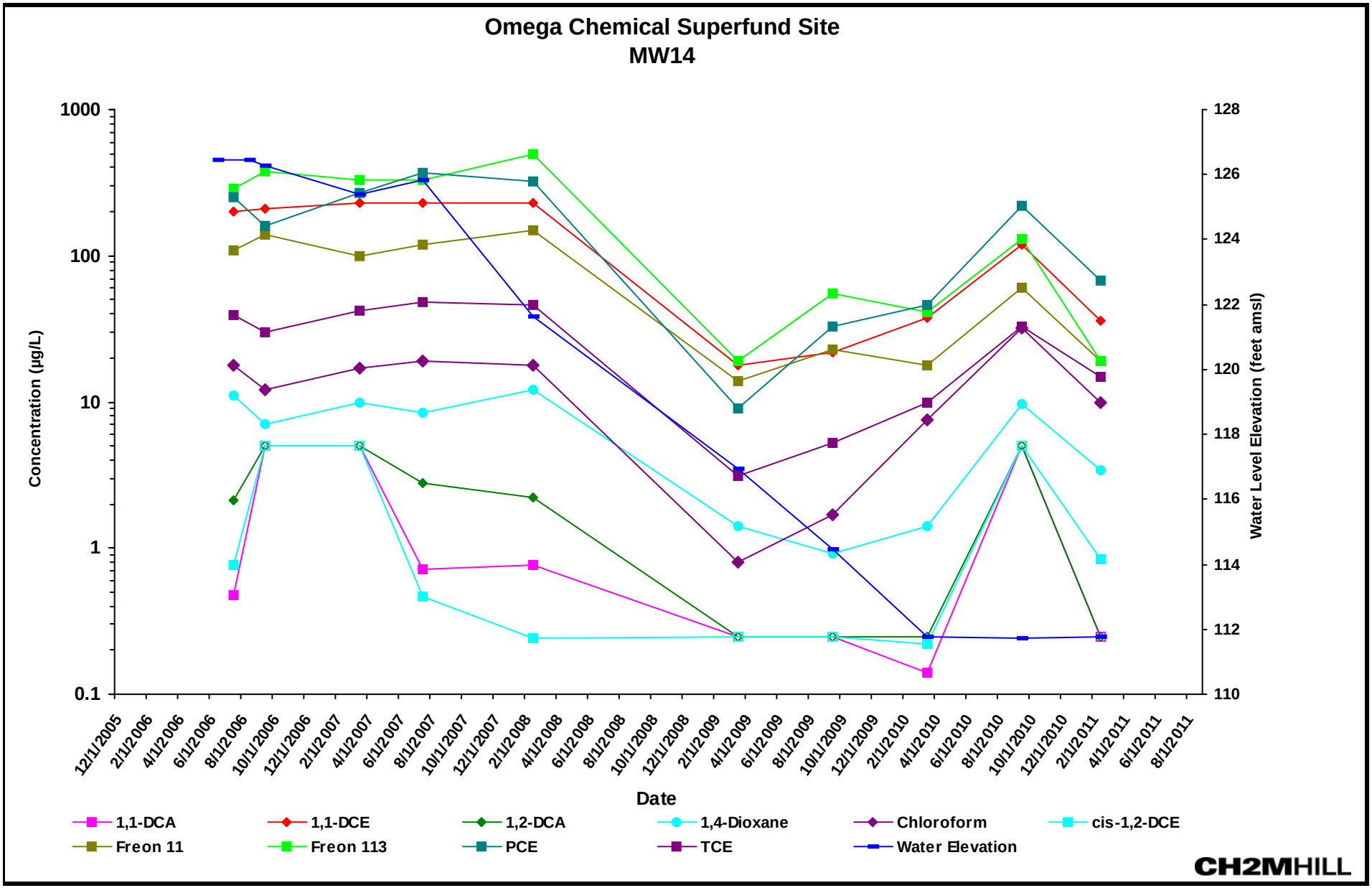

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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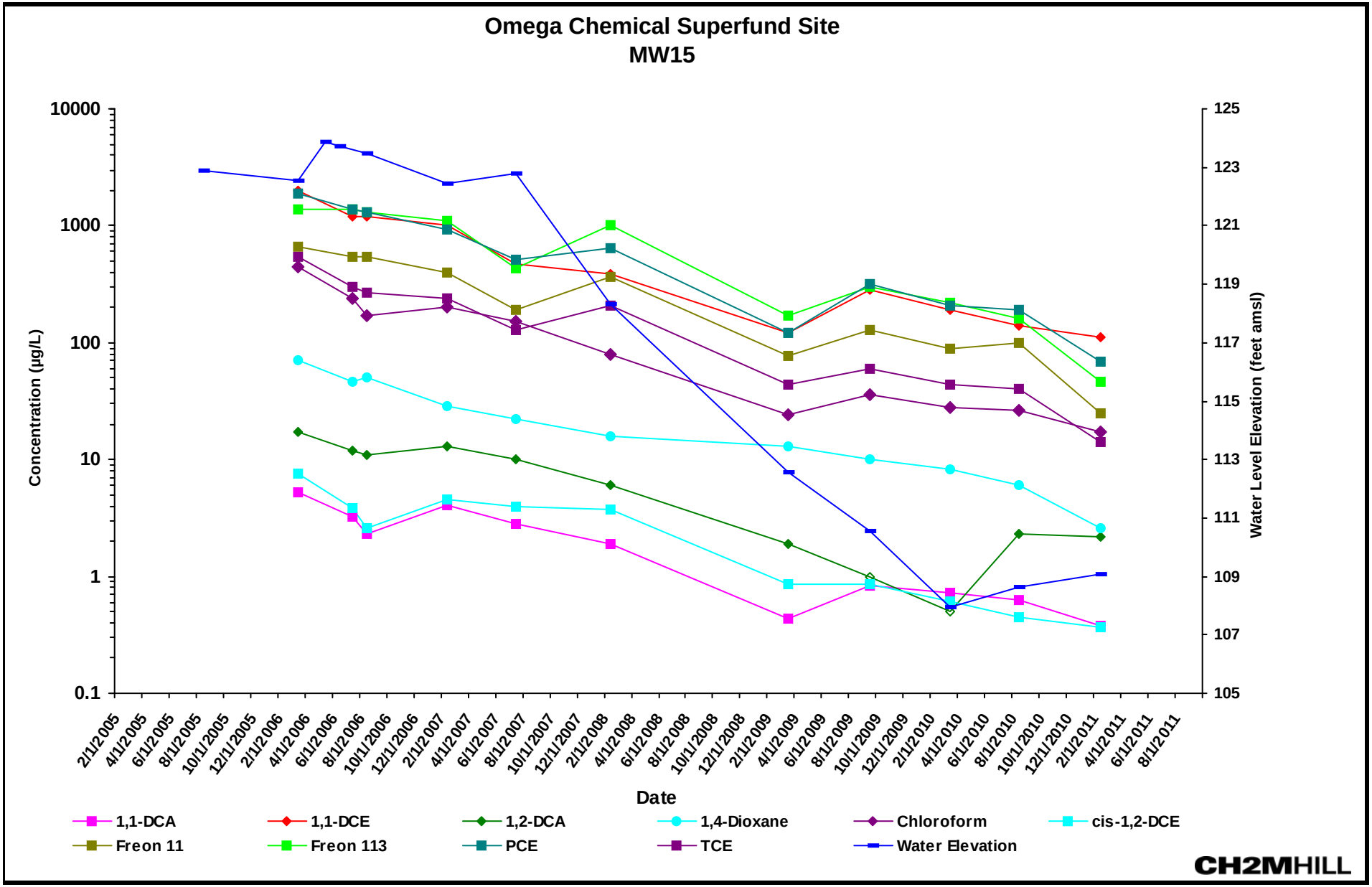

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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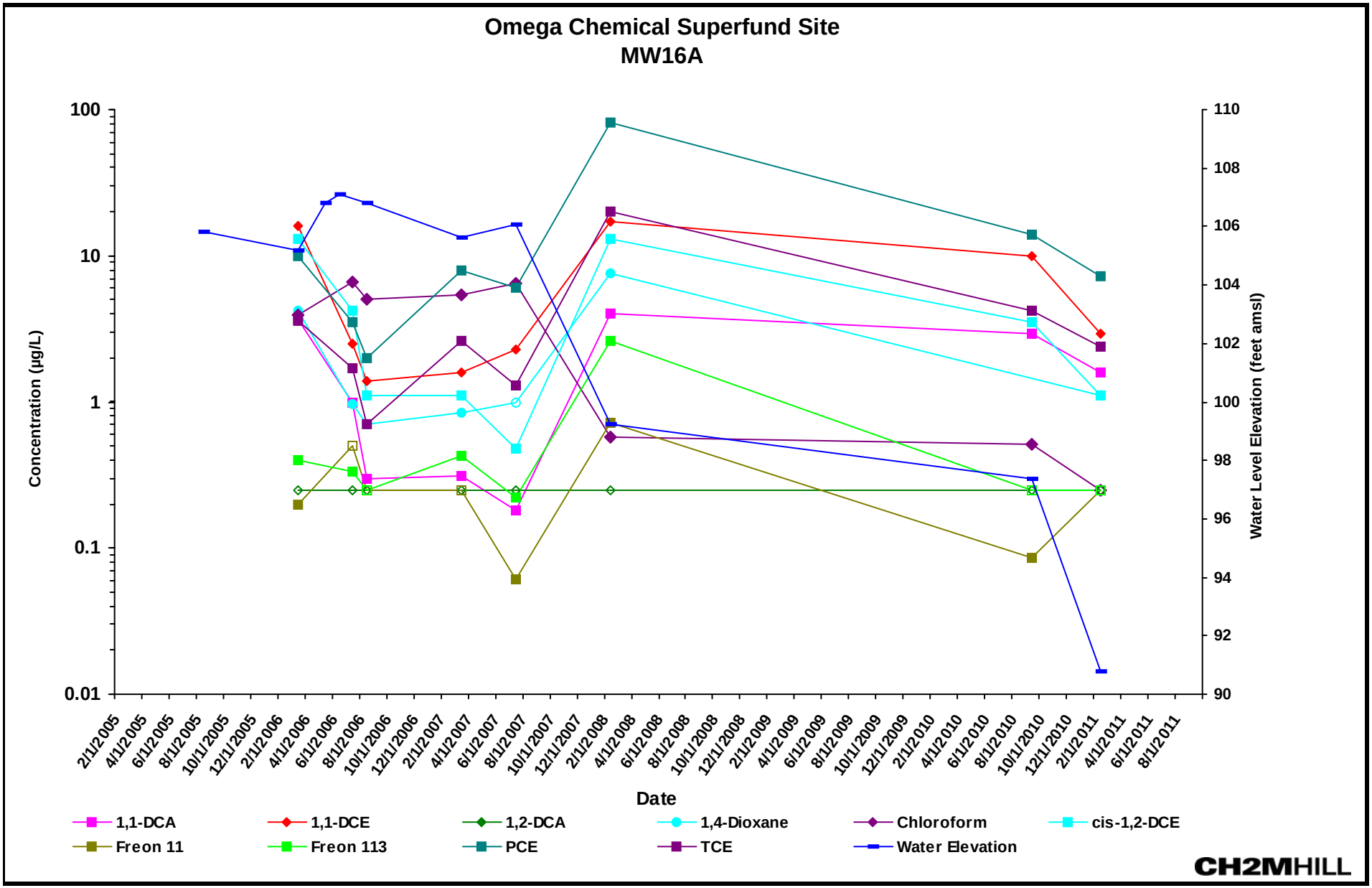

Notes:
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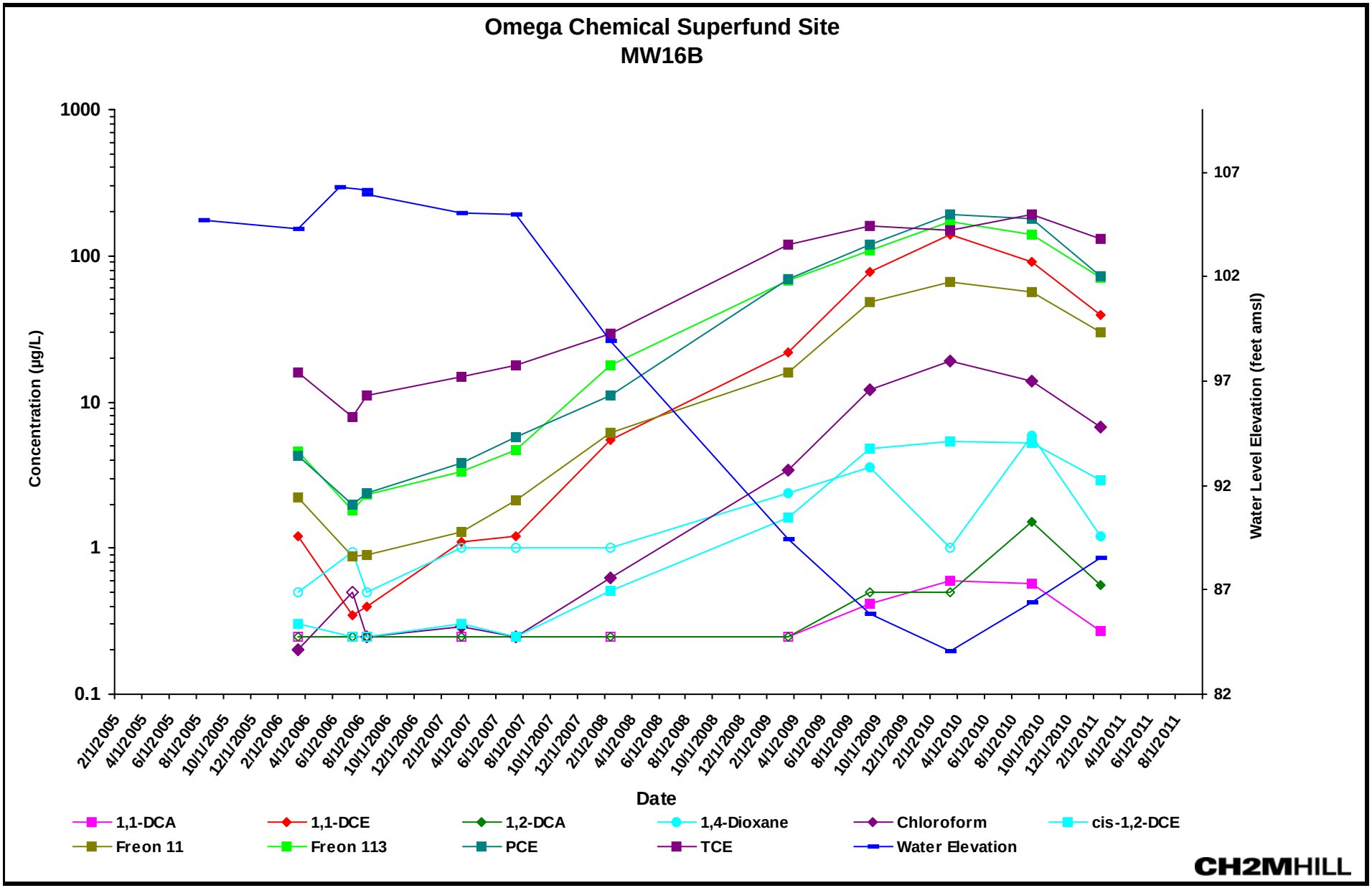

Notes:
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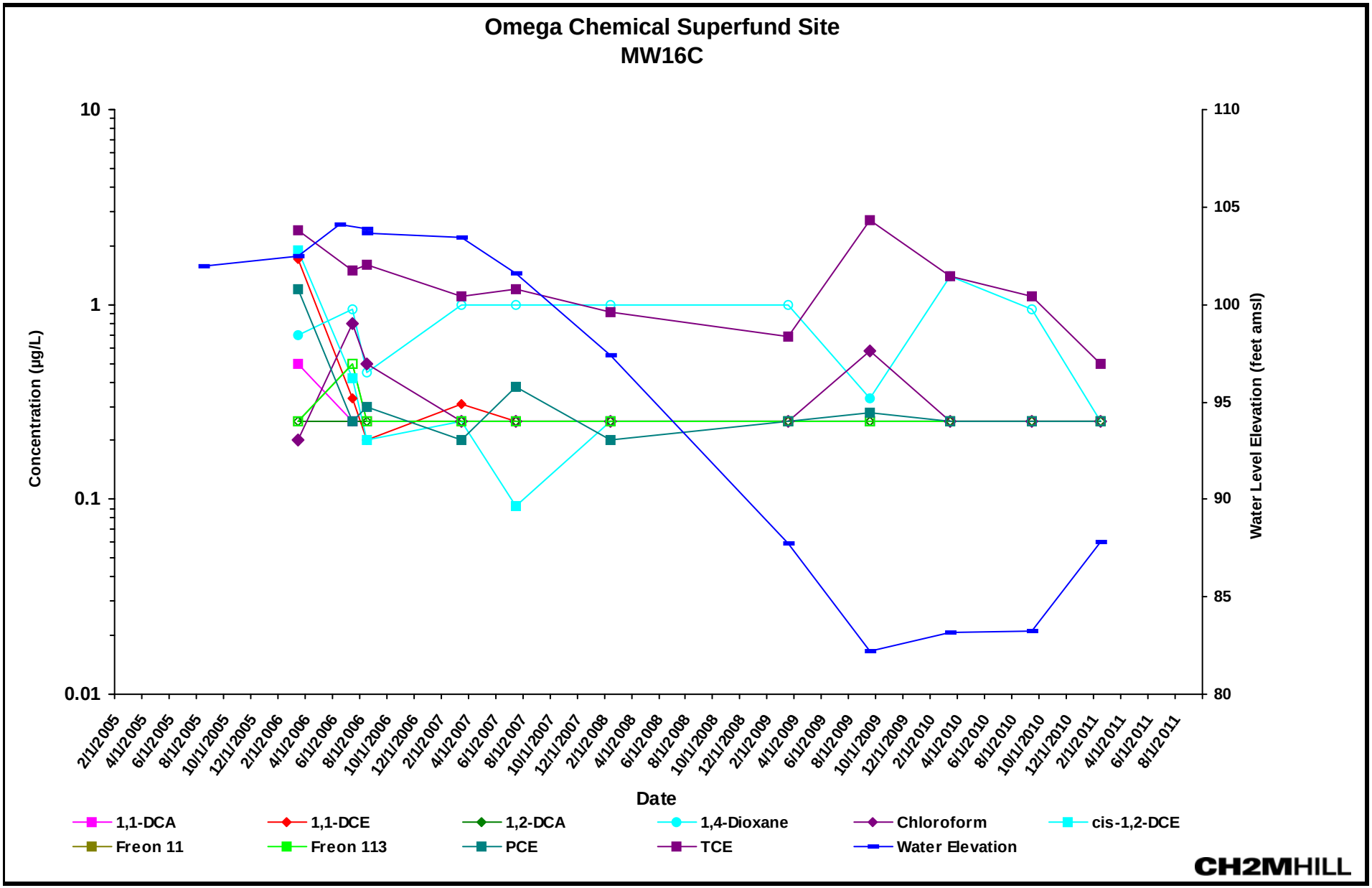

Notes:
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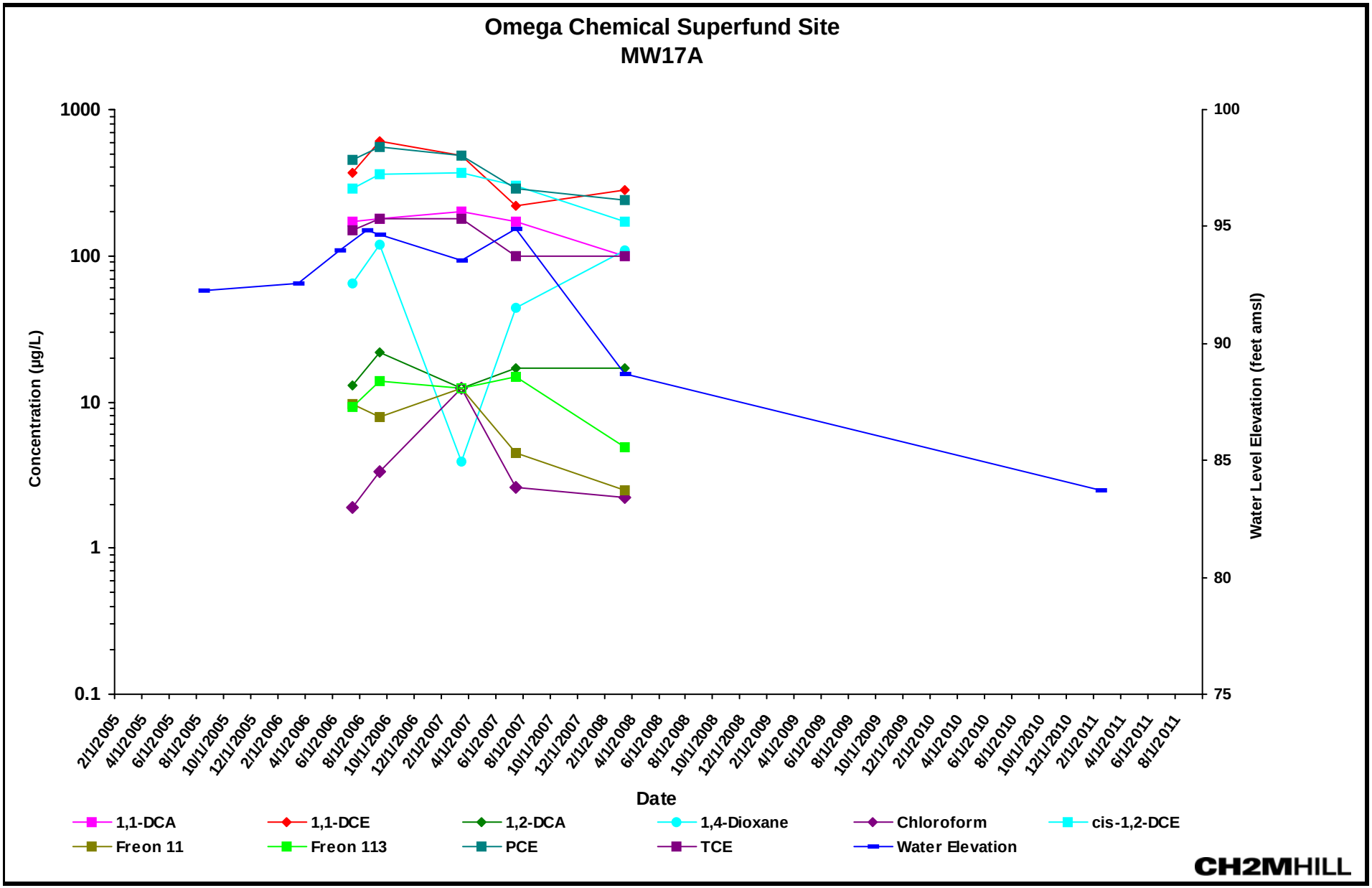

Notes:
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Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
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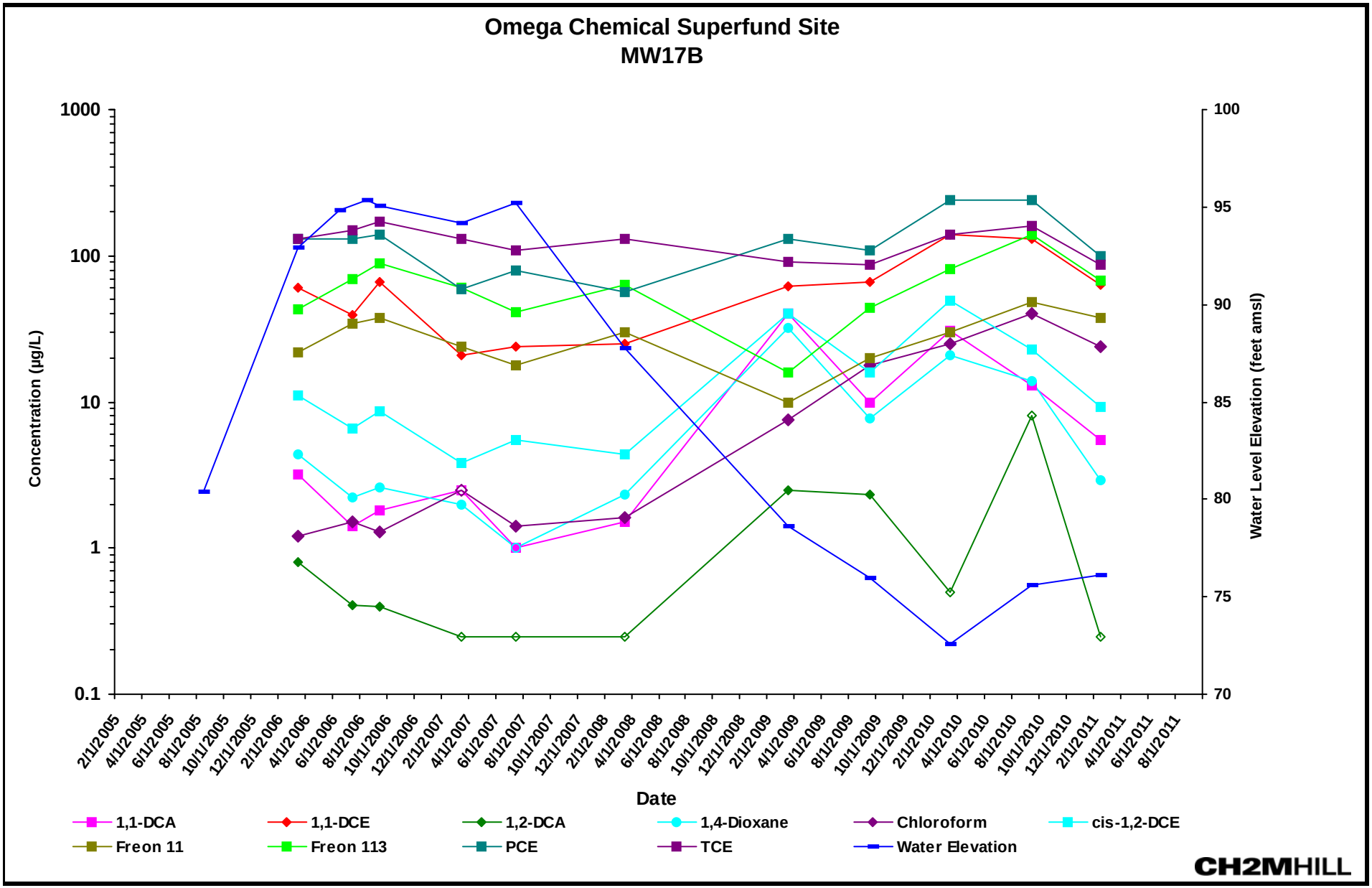

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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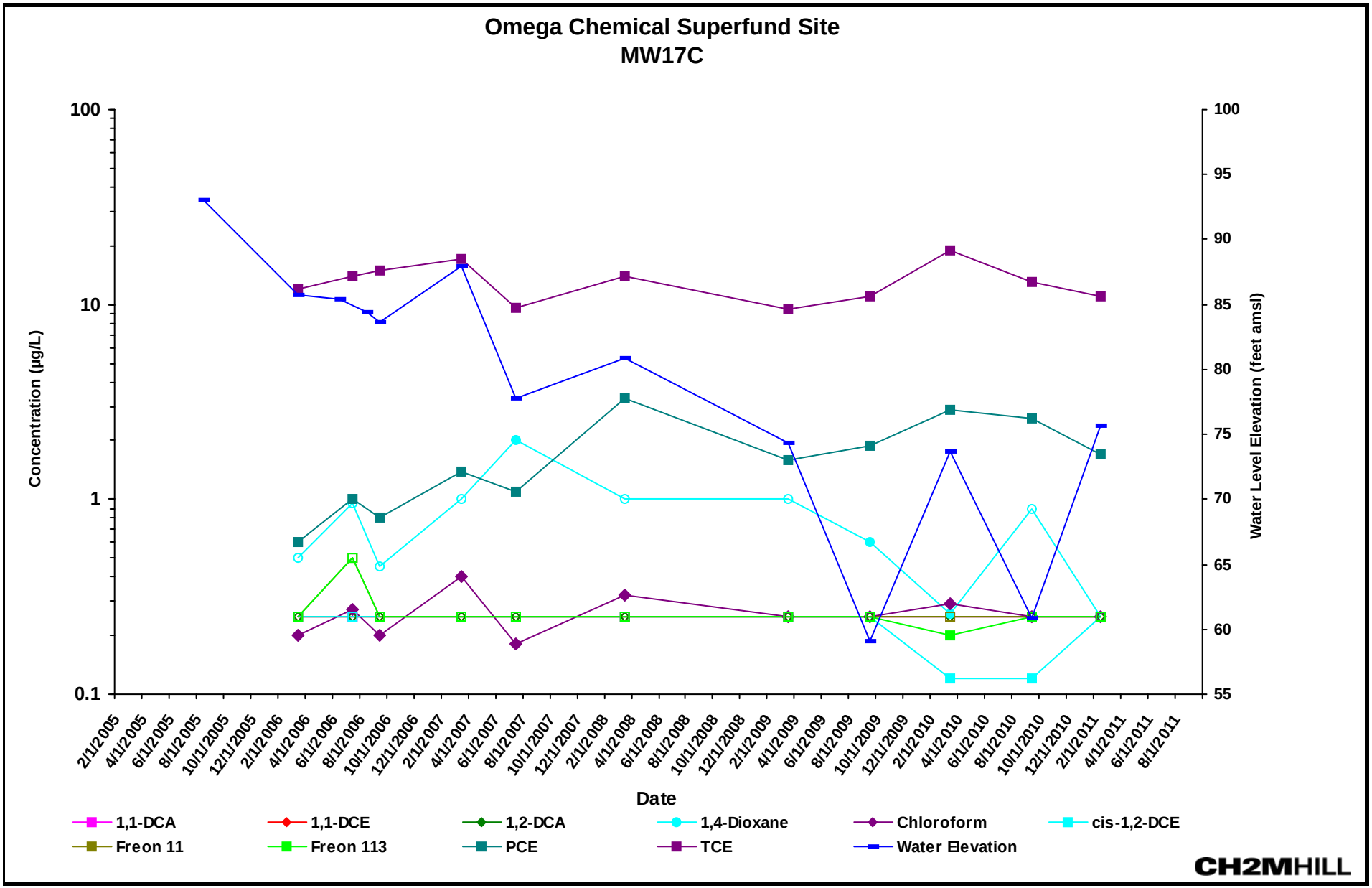

Notes:
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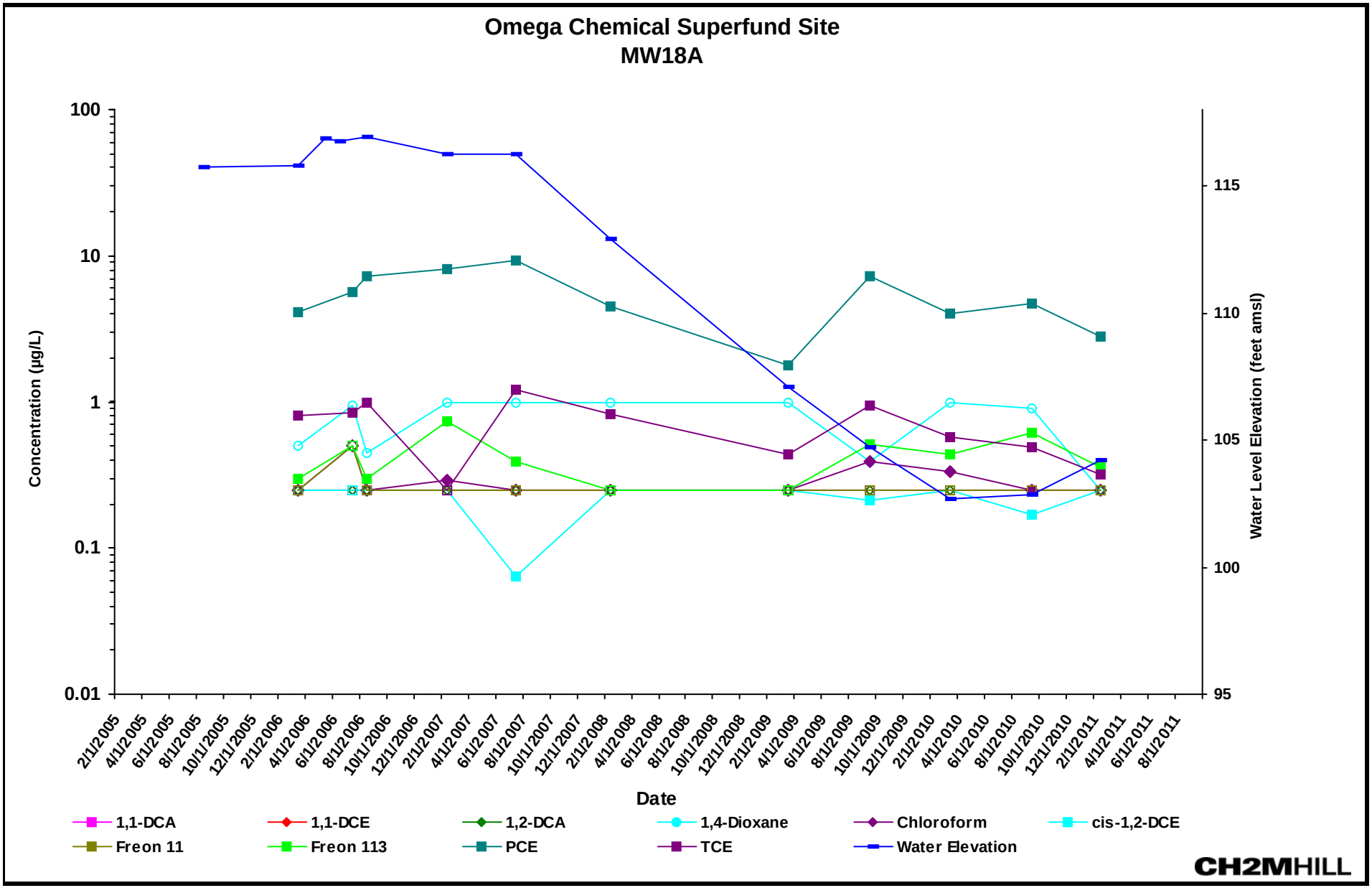

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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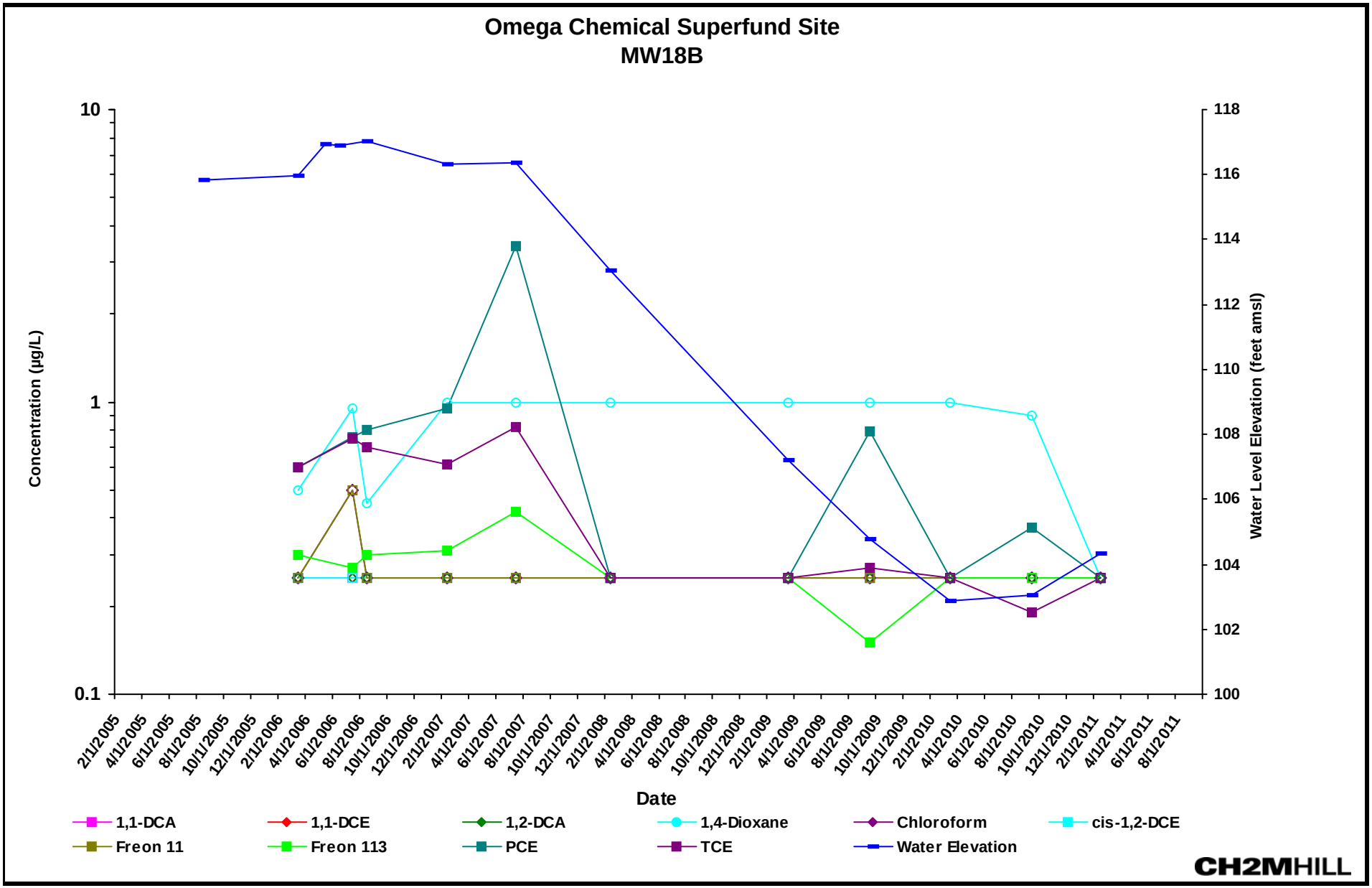

Notes:
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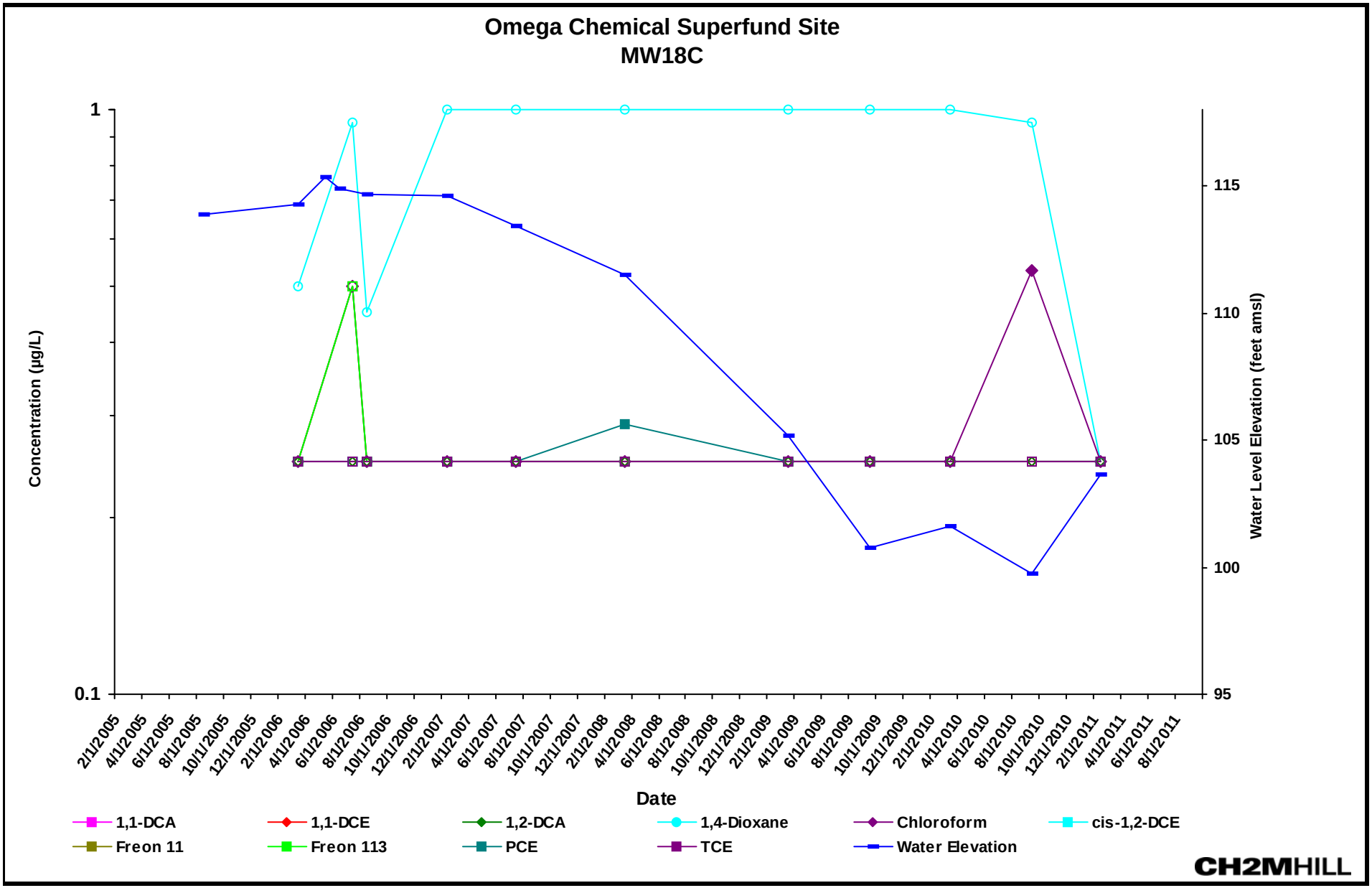

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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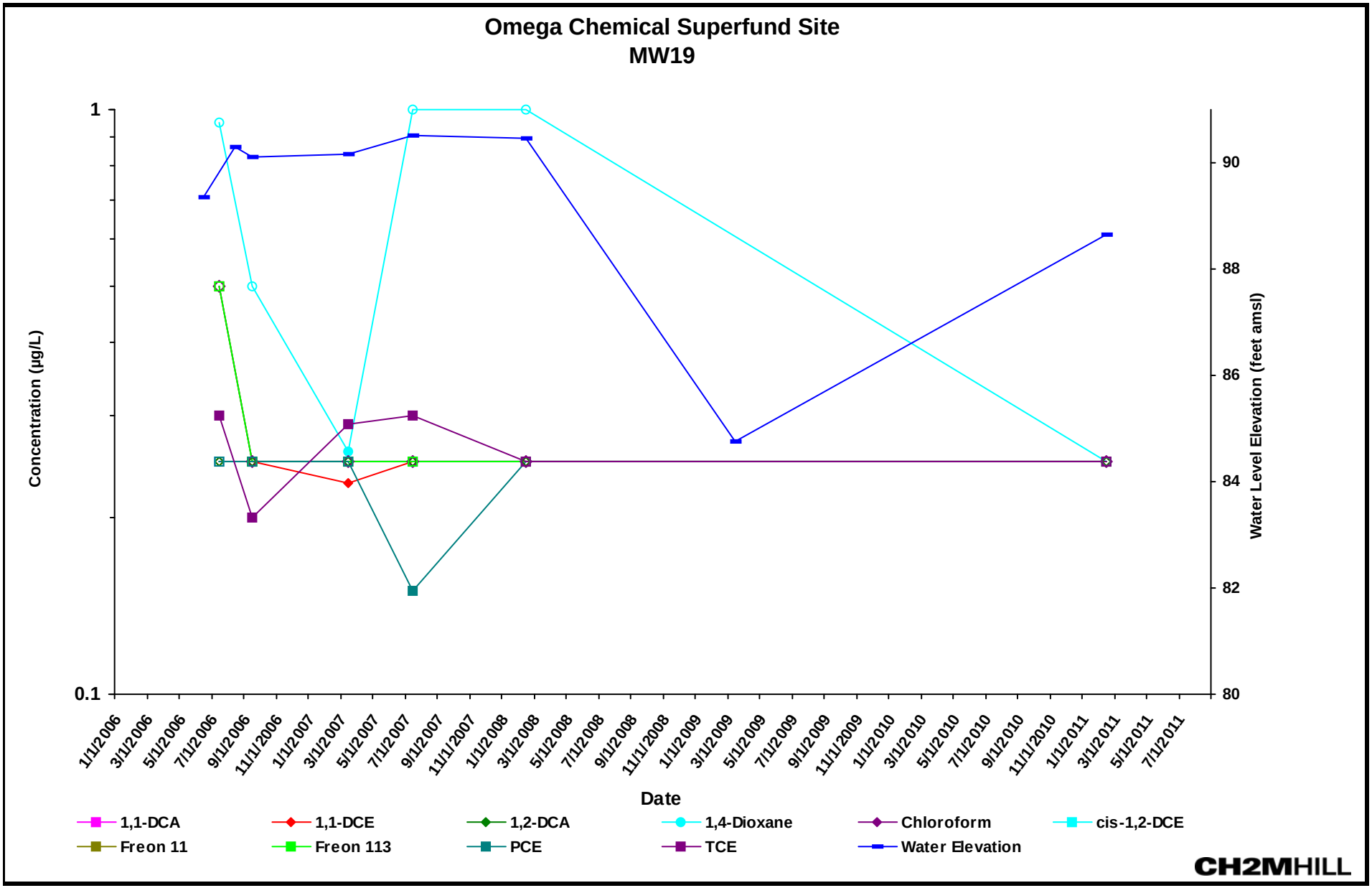

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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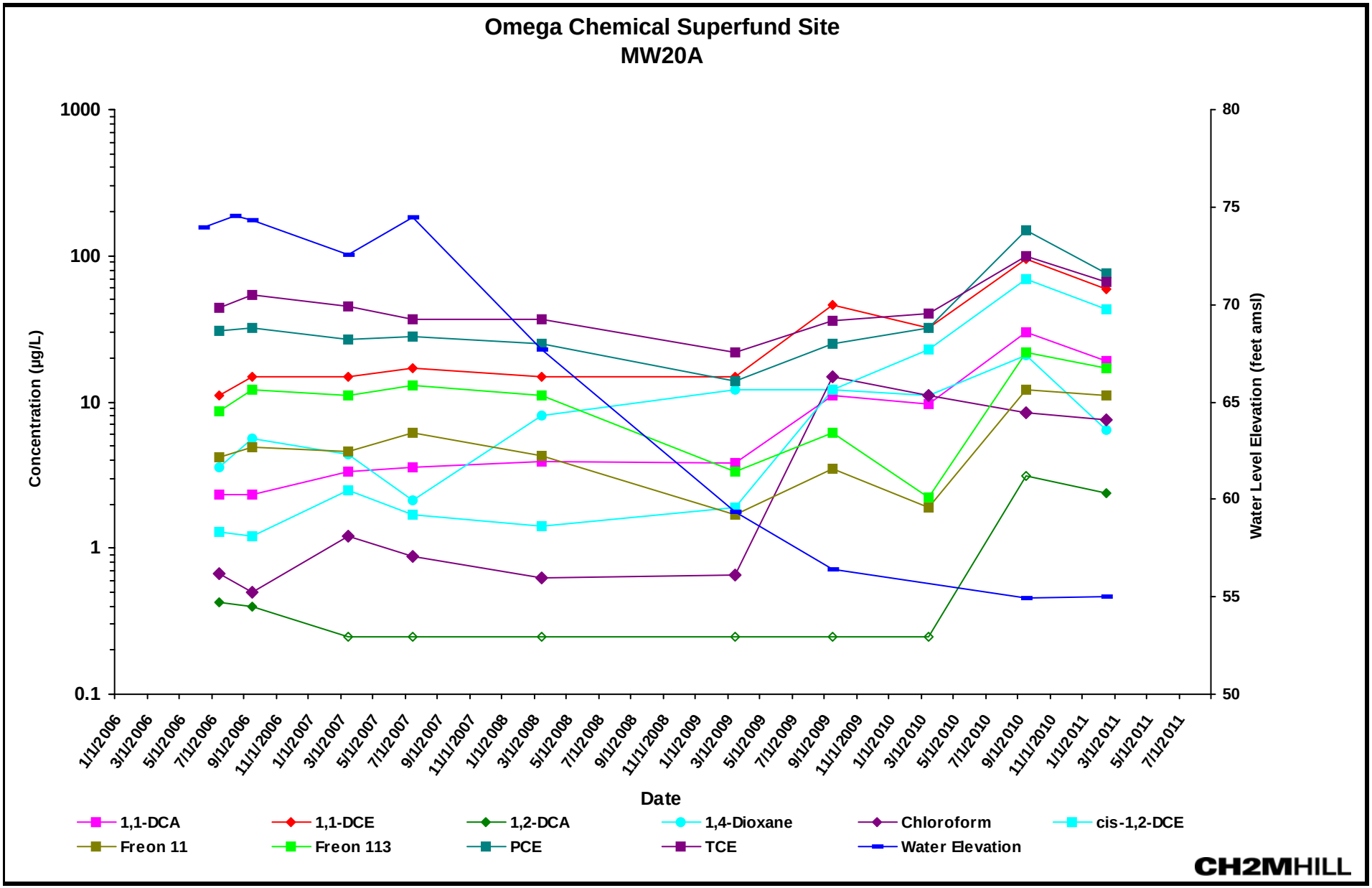

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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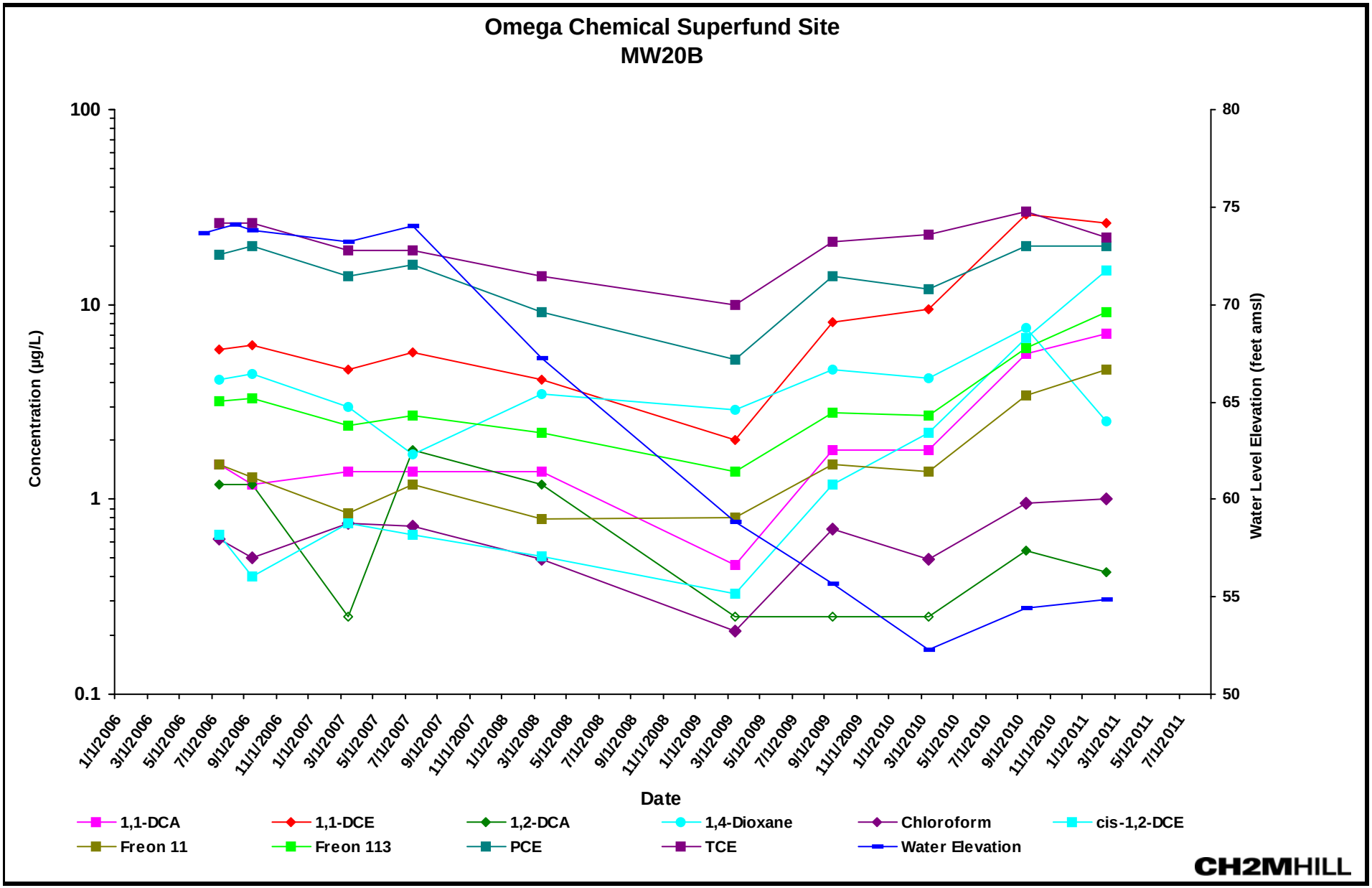

Notes:
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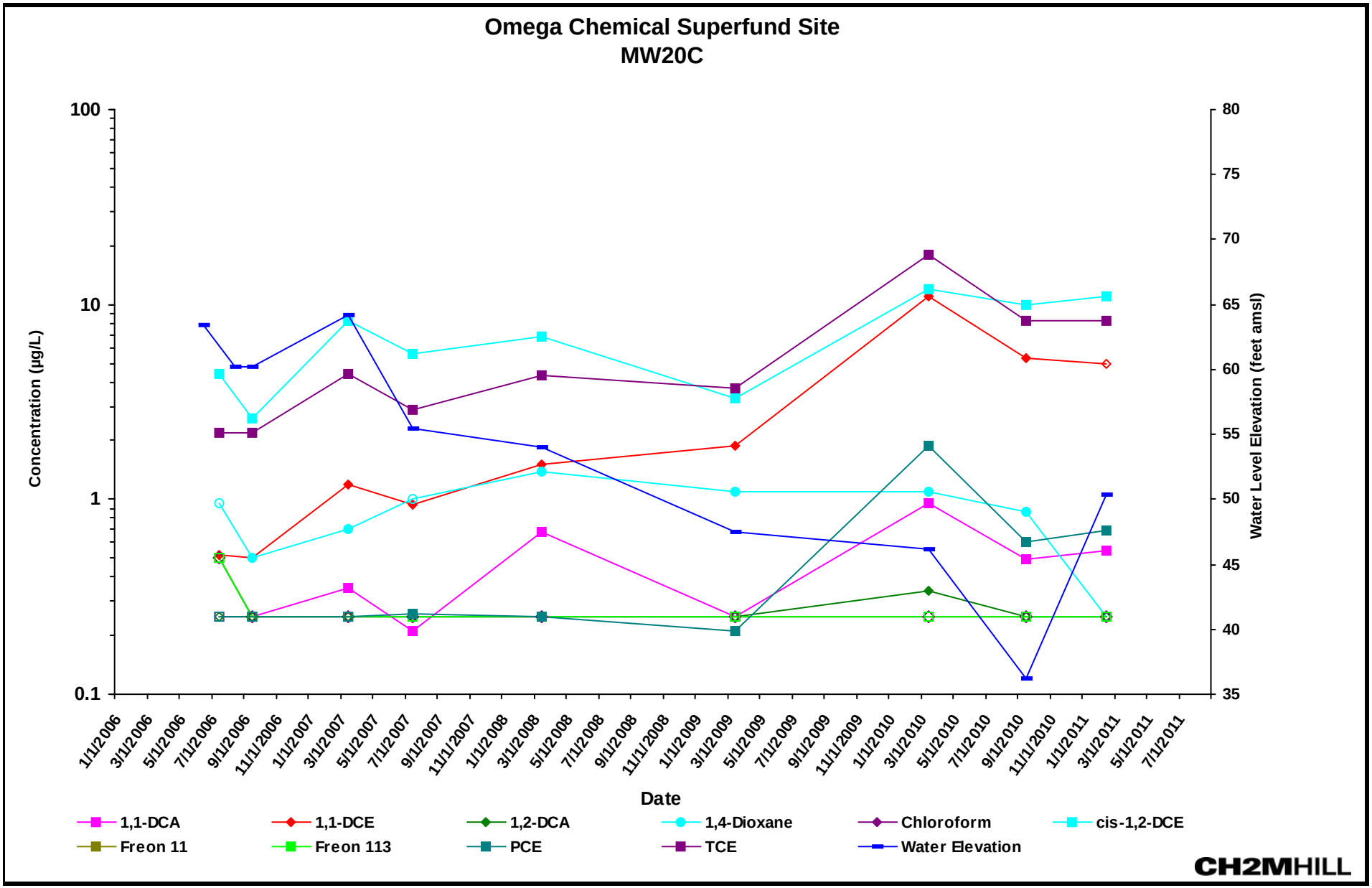

Notes:
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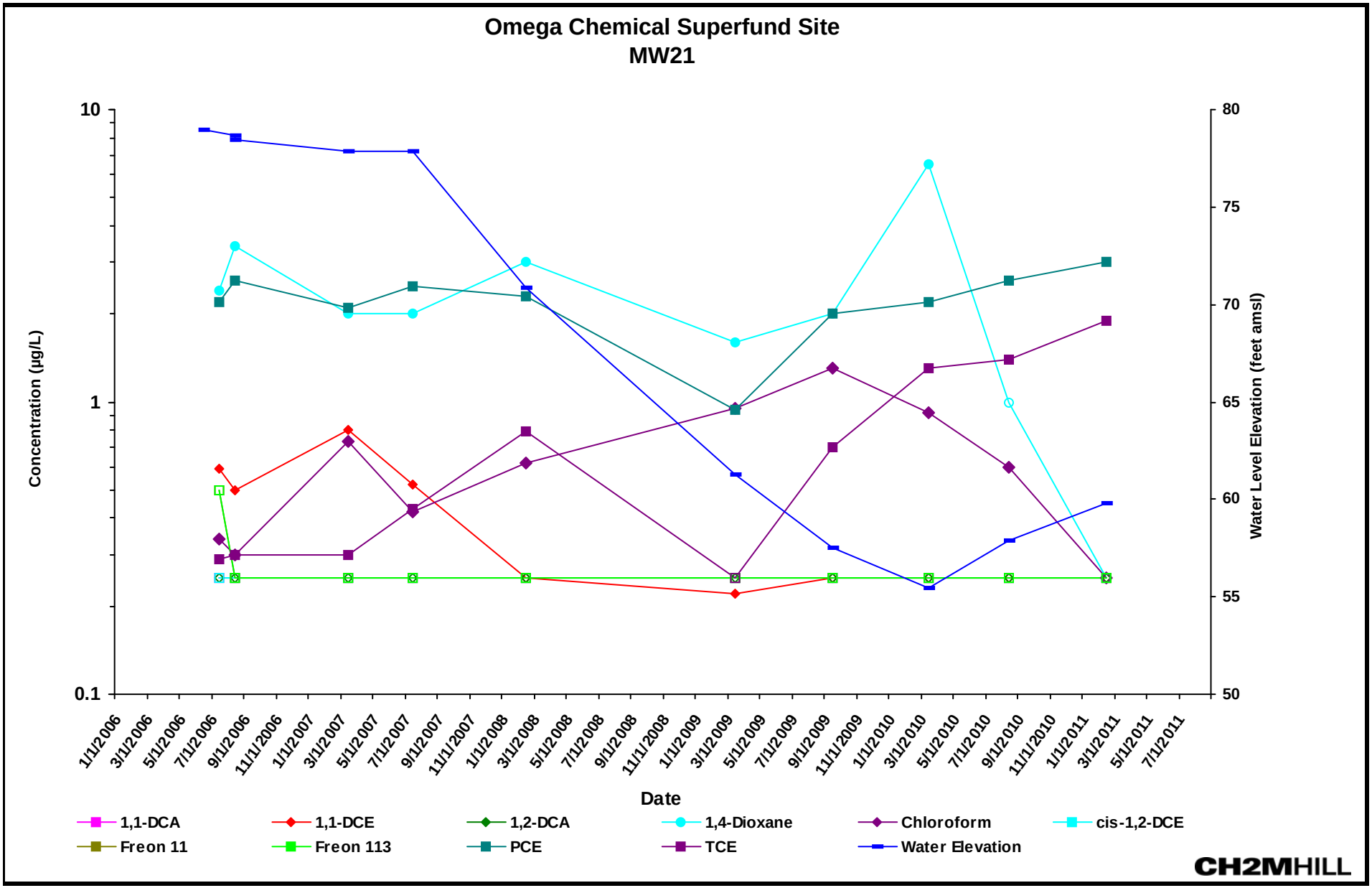

Notes:
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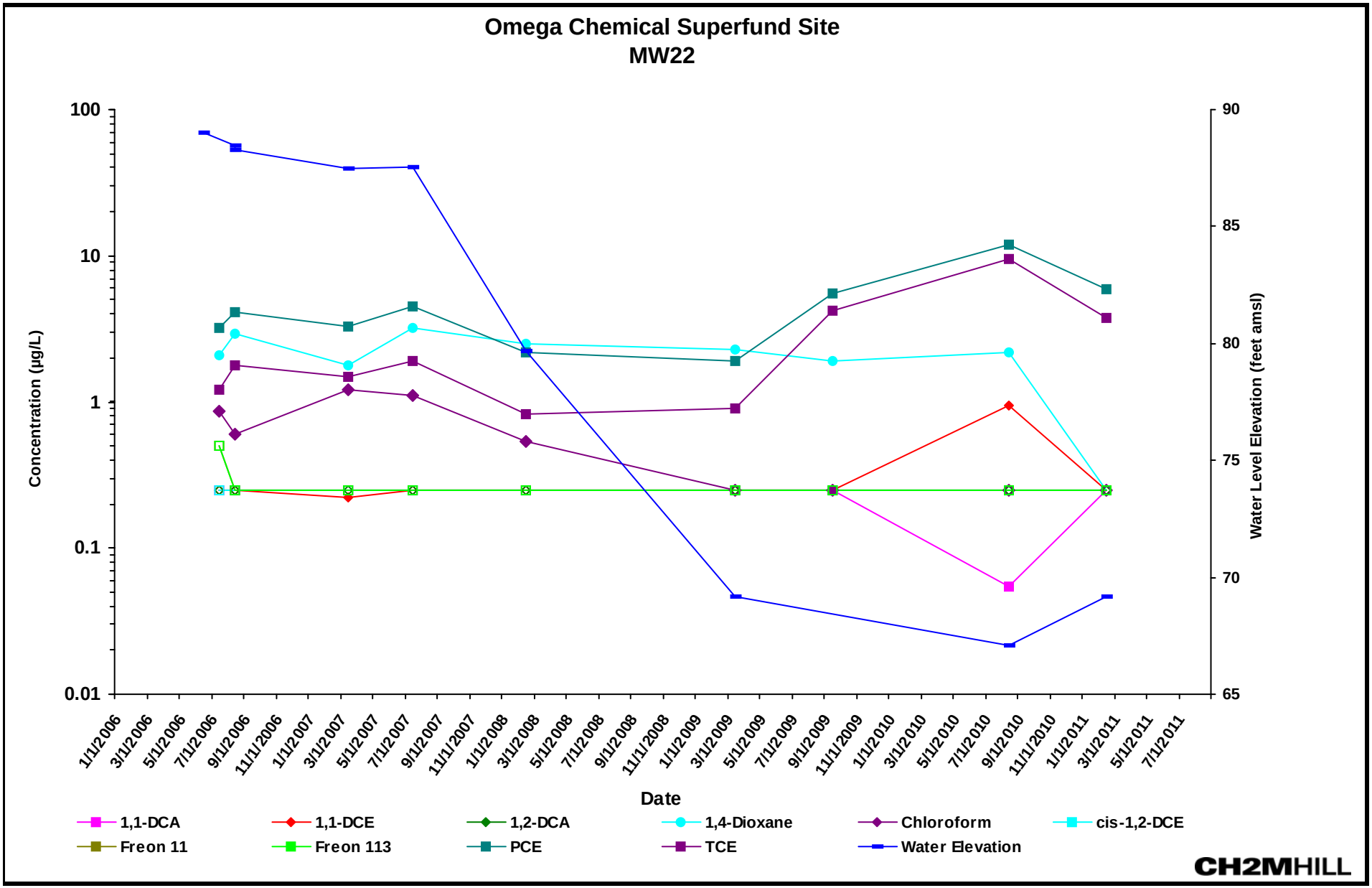

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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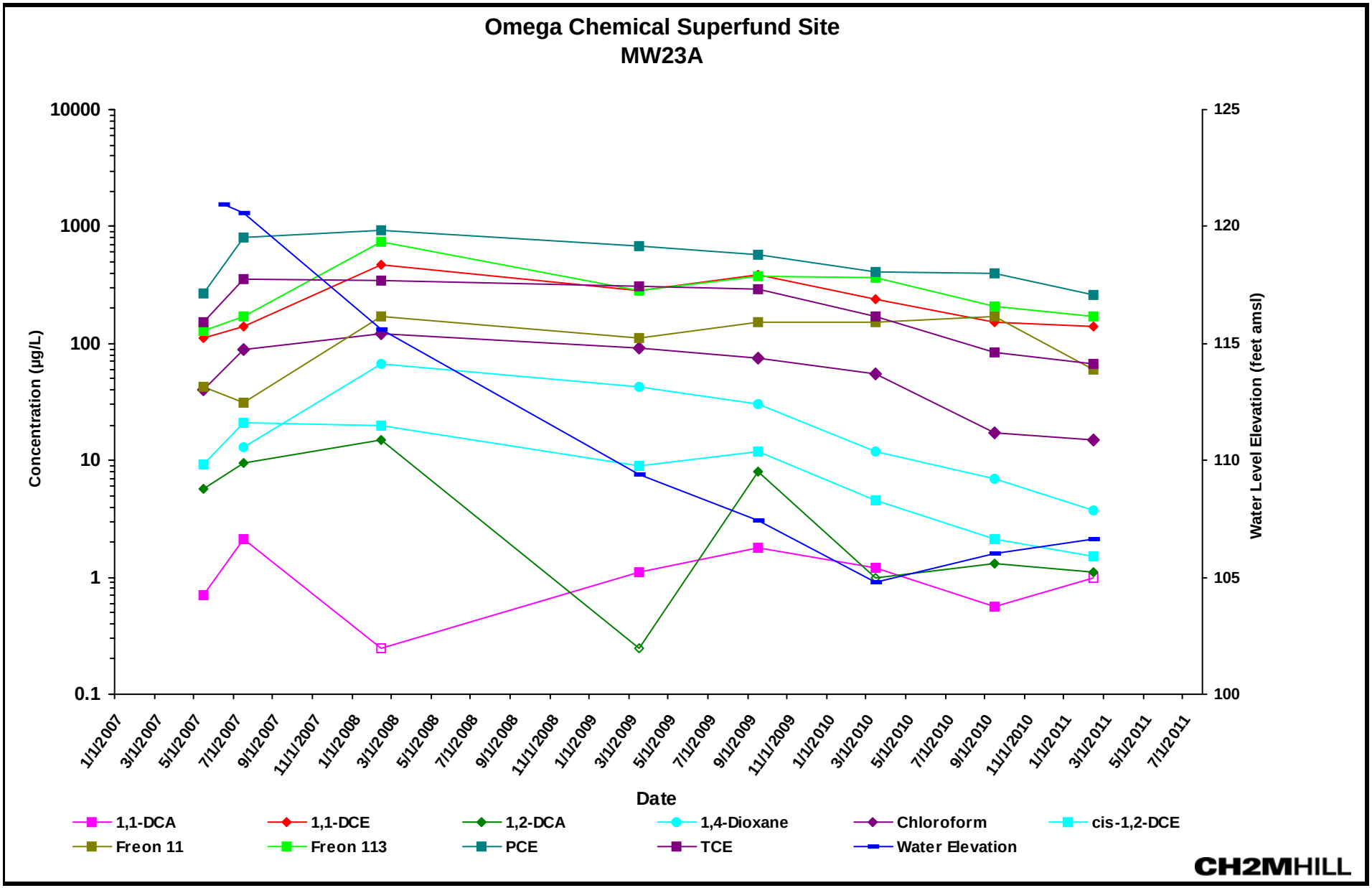
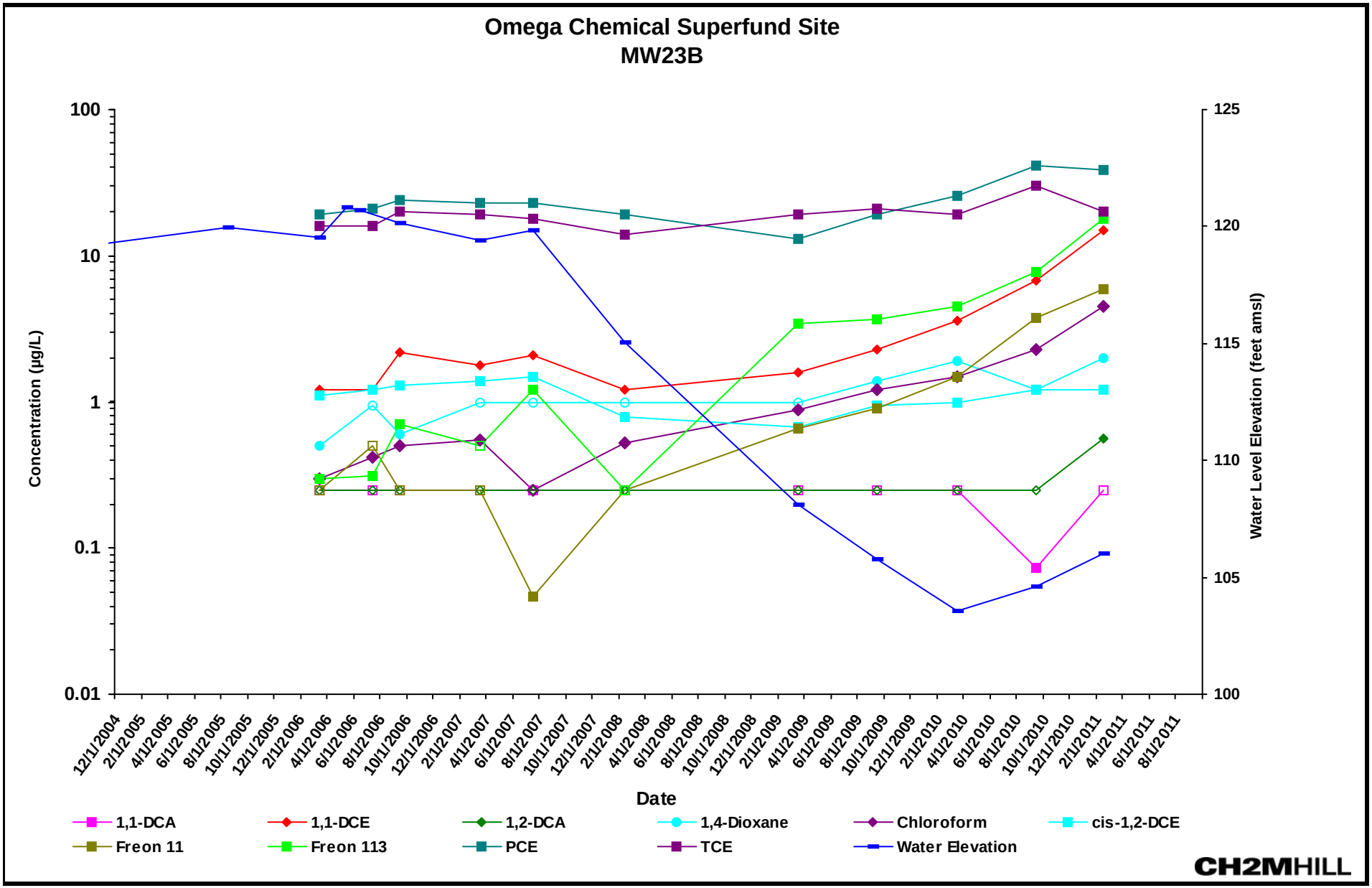


Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
Open symbol indicates reporting limit for non-detected concentrations
amsl: above mean sea level



Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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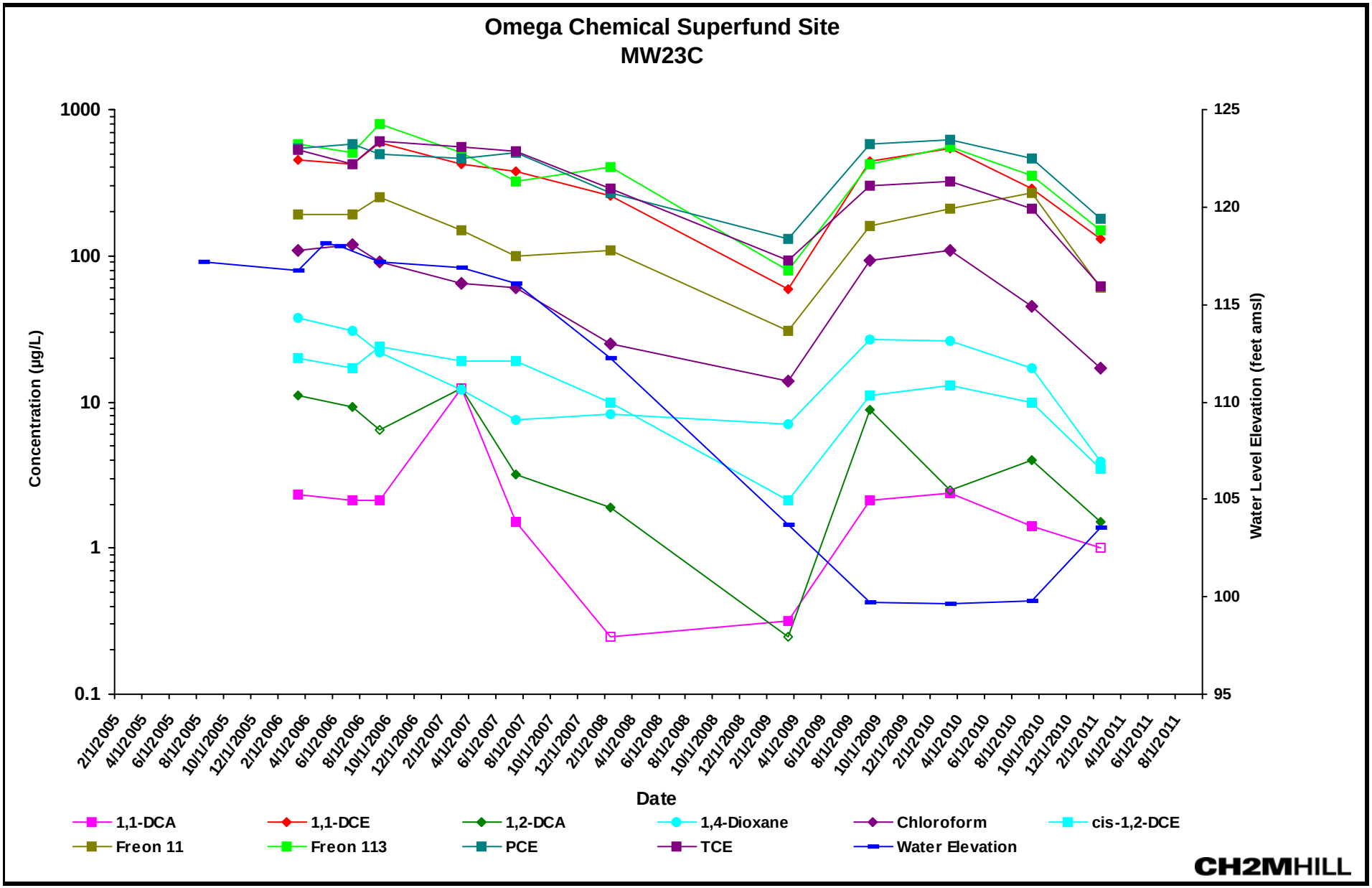

Notes:
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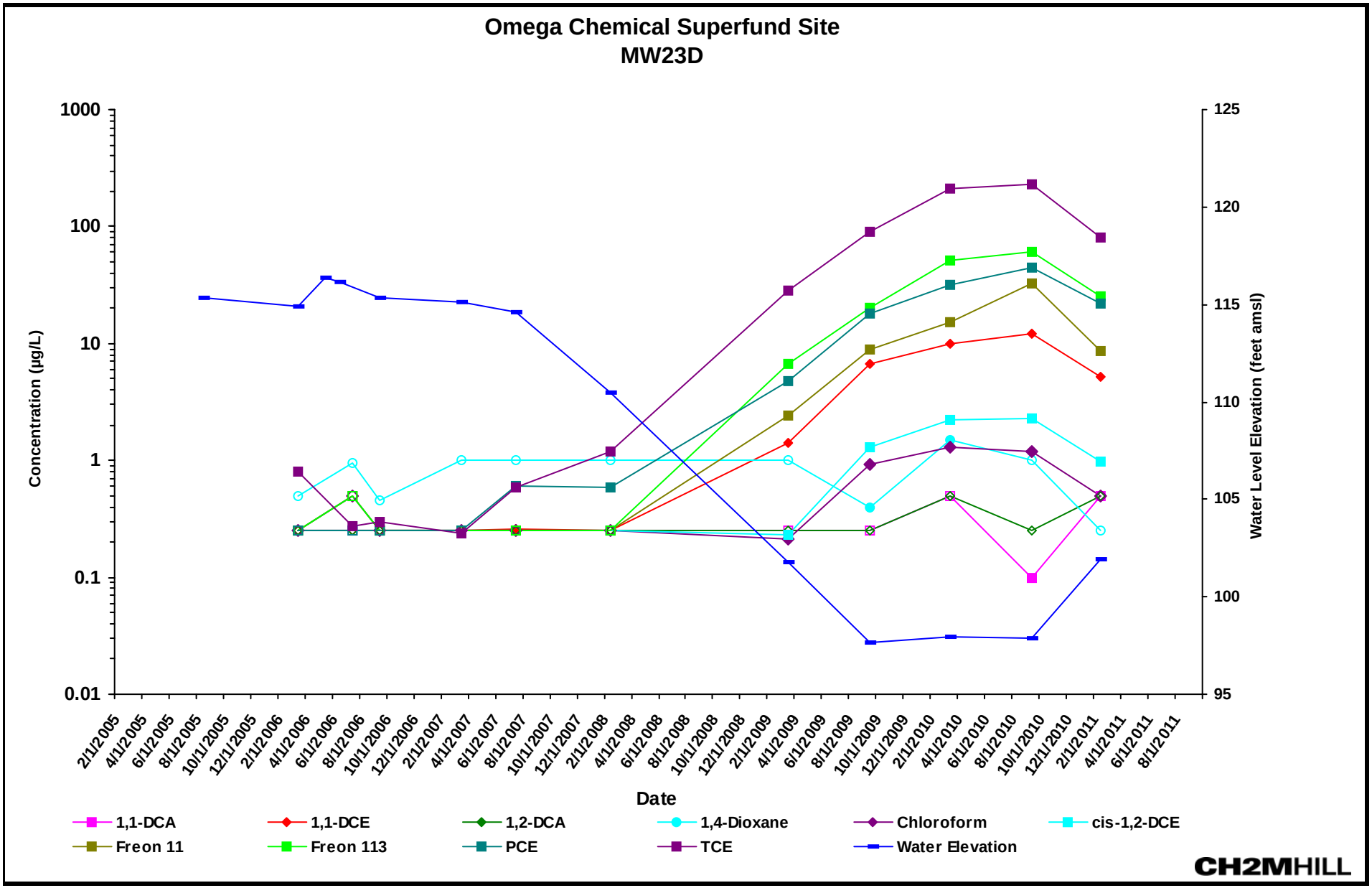

Notes:
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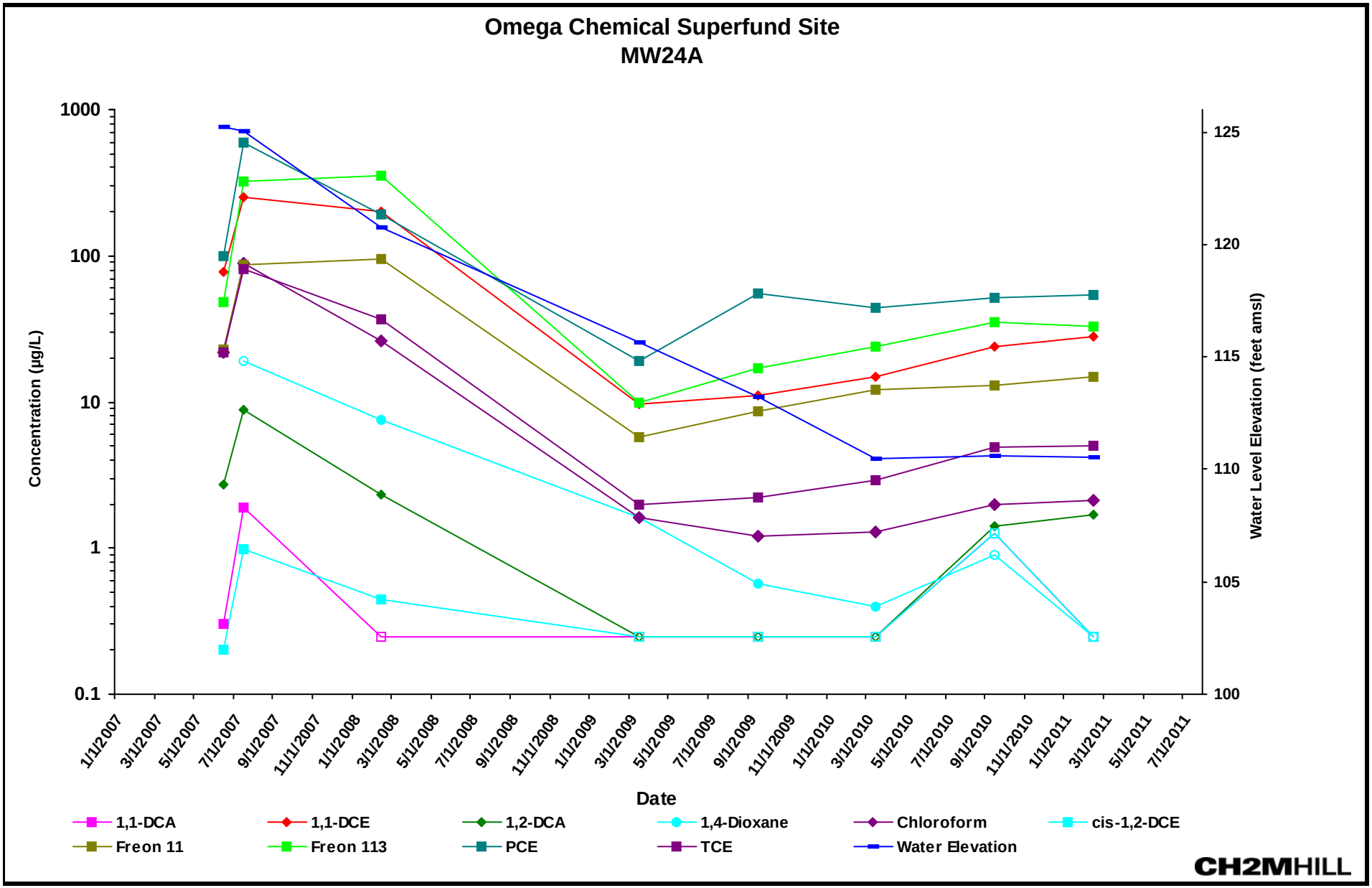

Notes:
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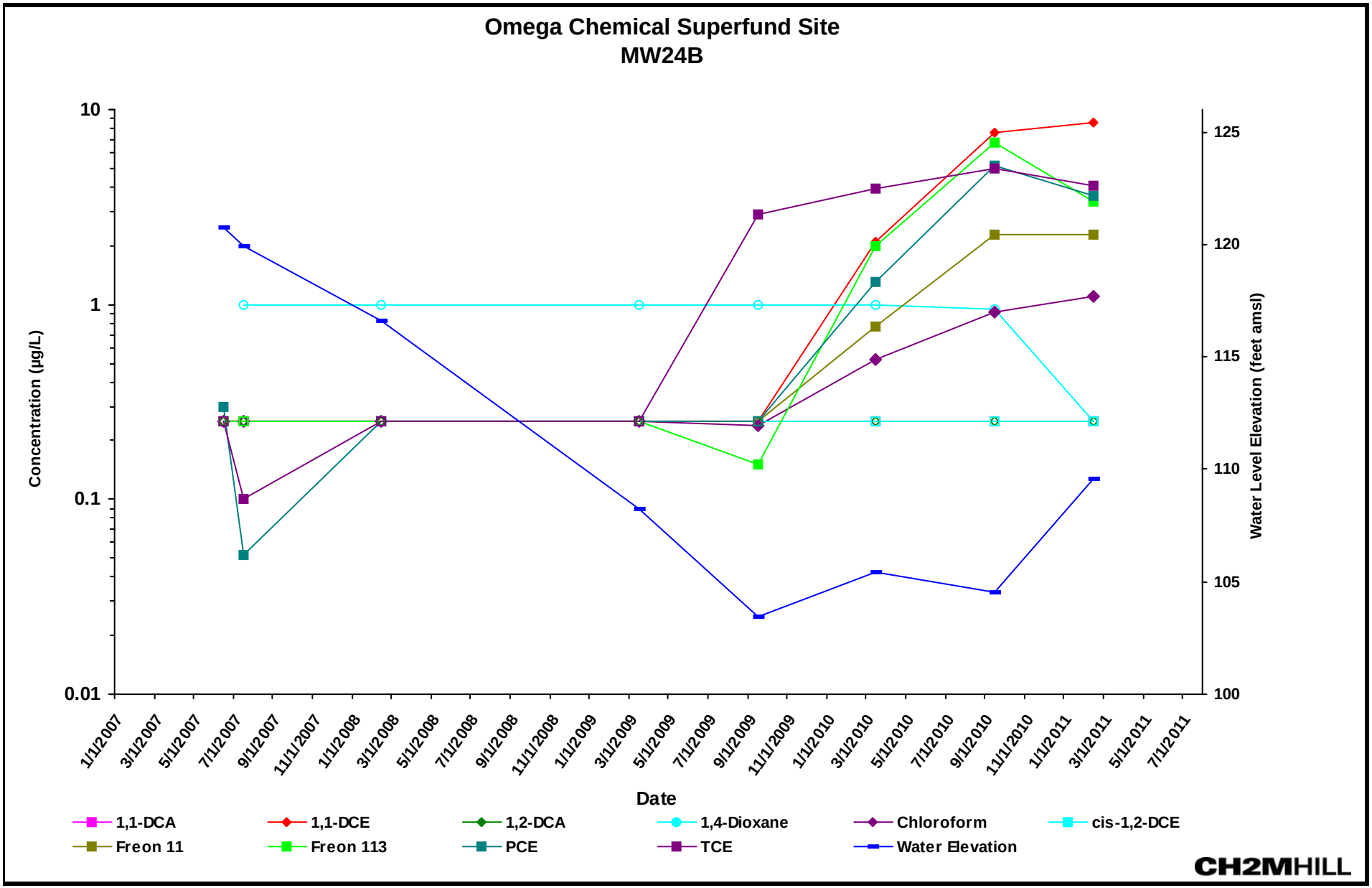

Notes:
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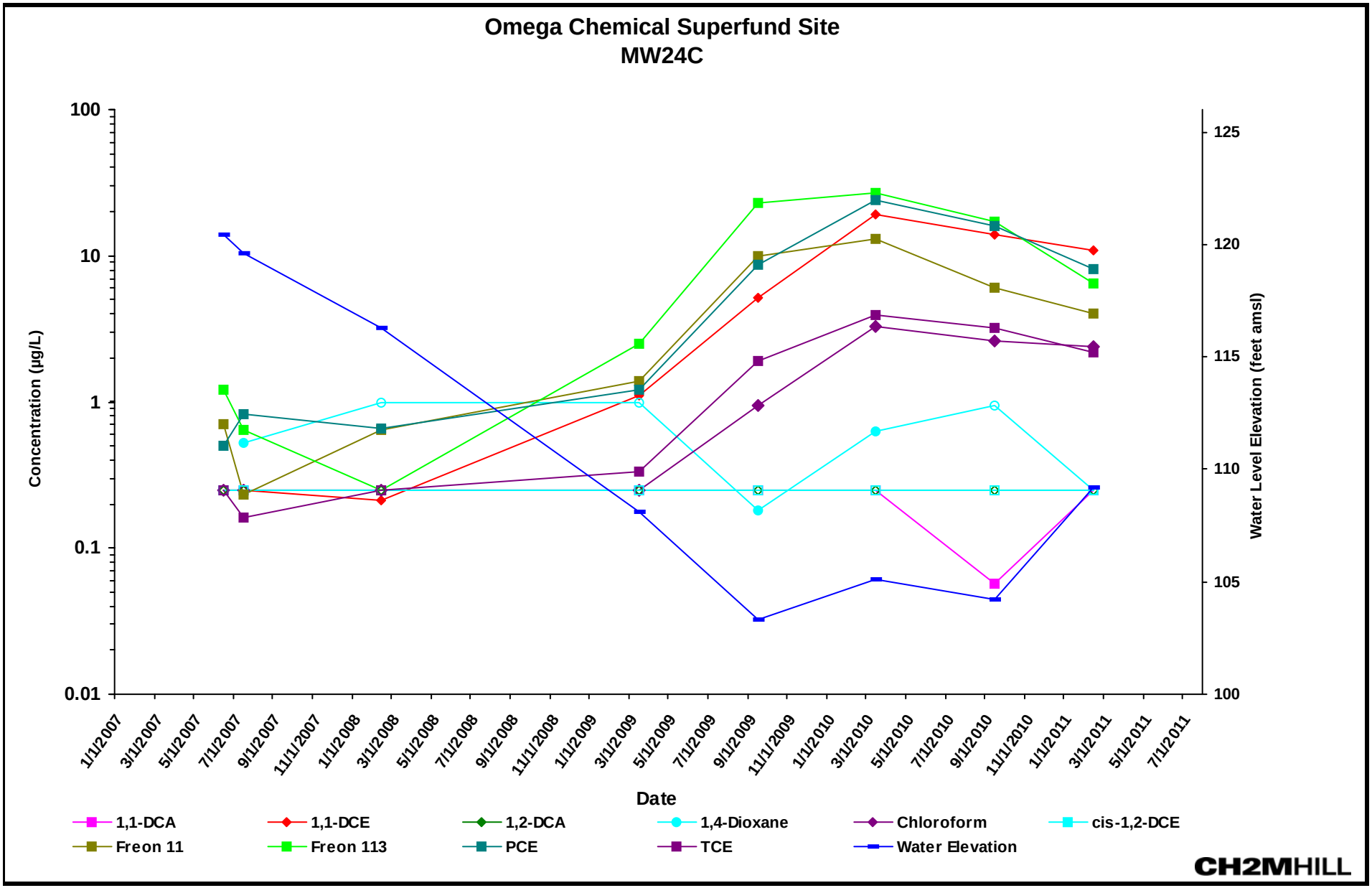

Notes:
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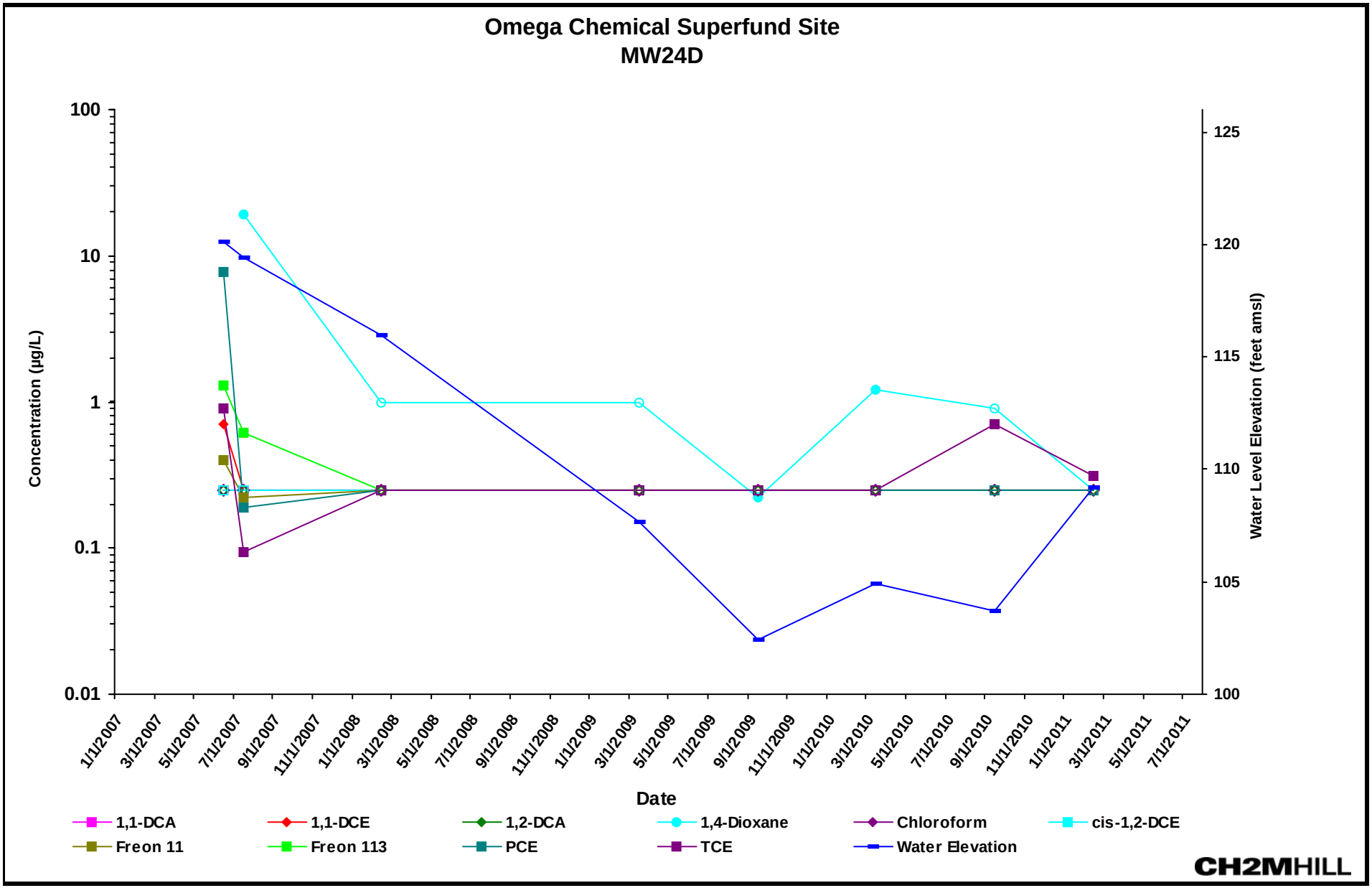

Notes:
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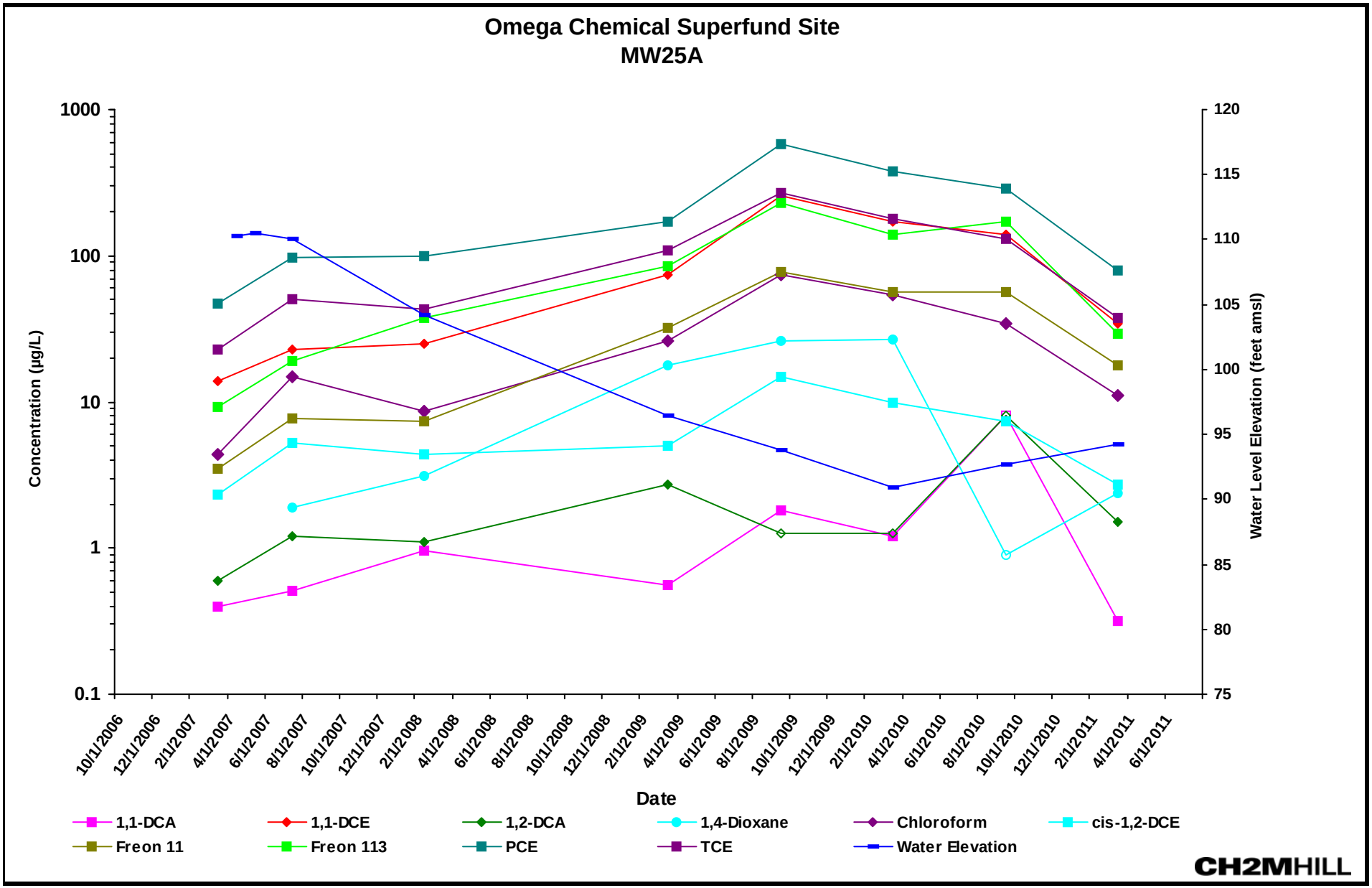

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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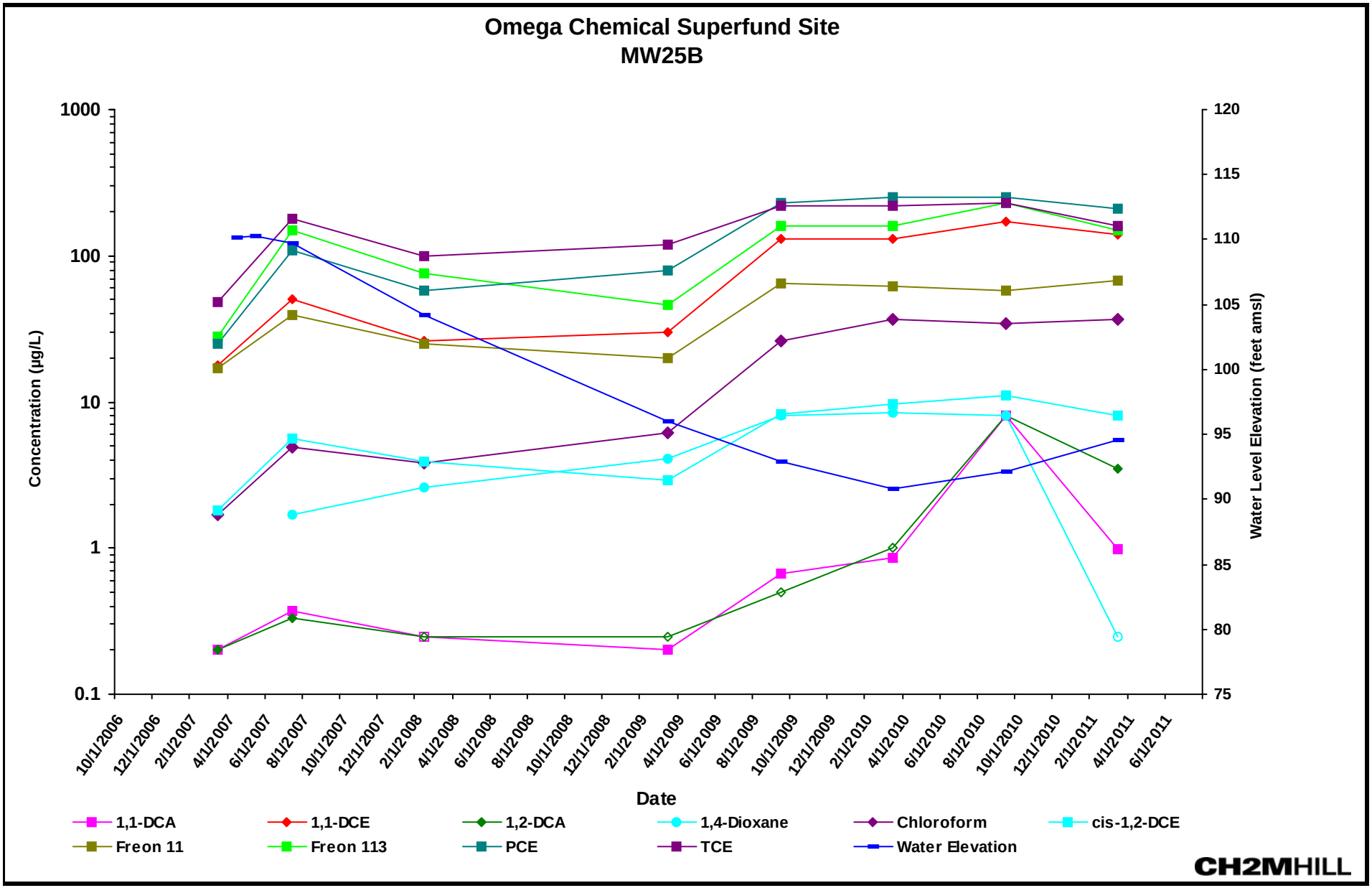

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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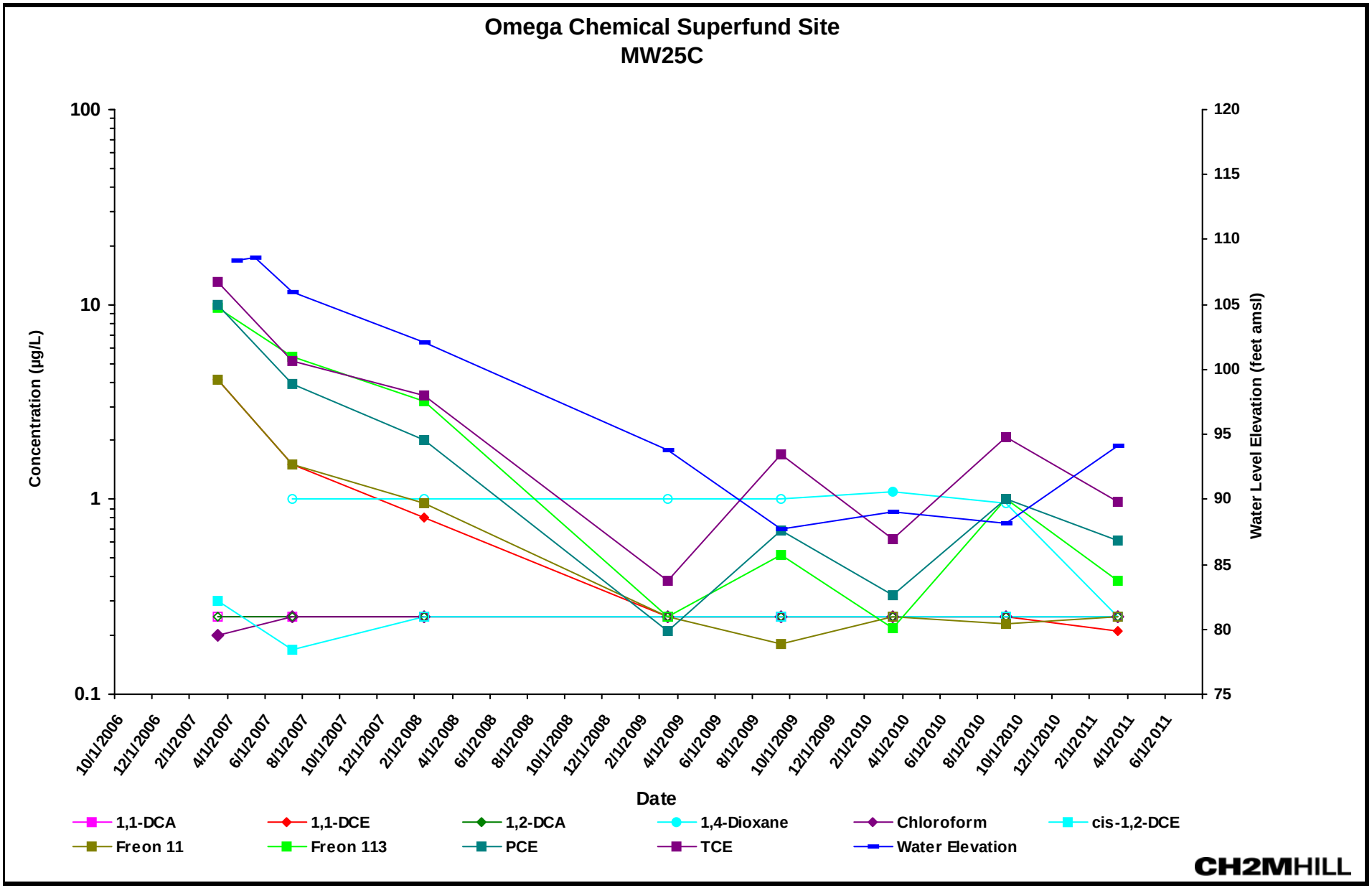

Notes:
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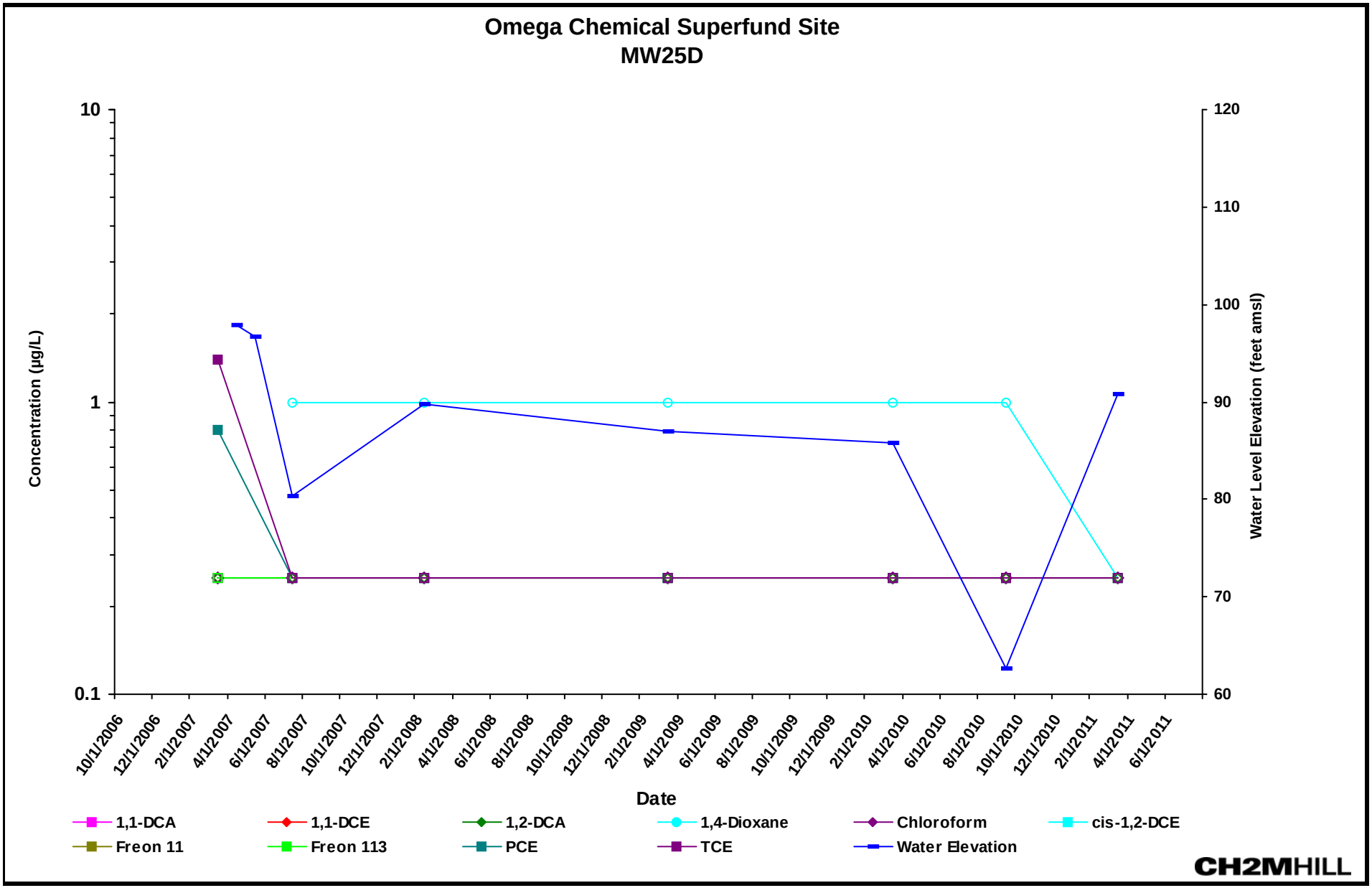

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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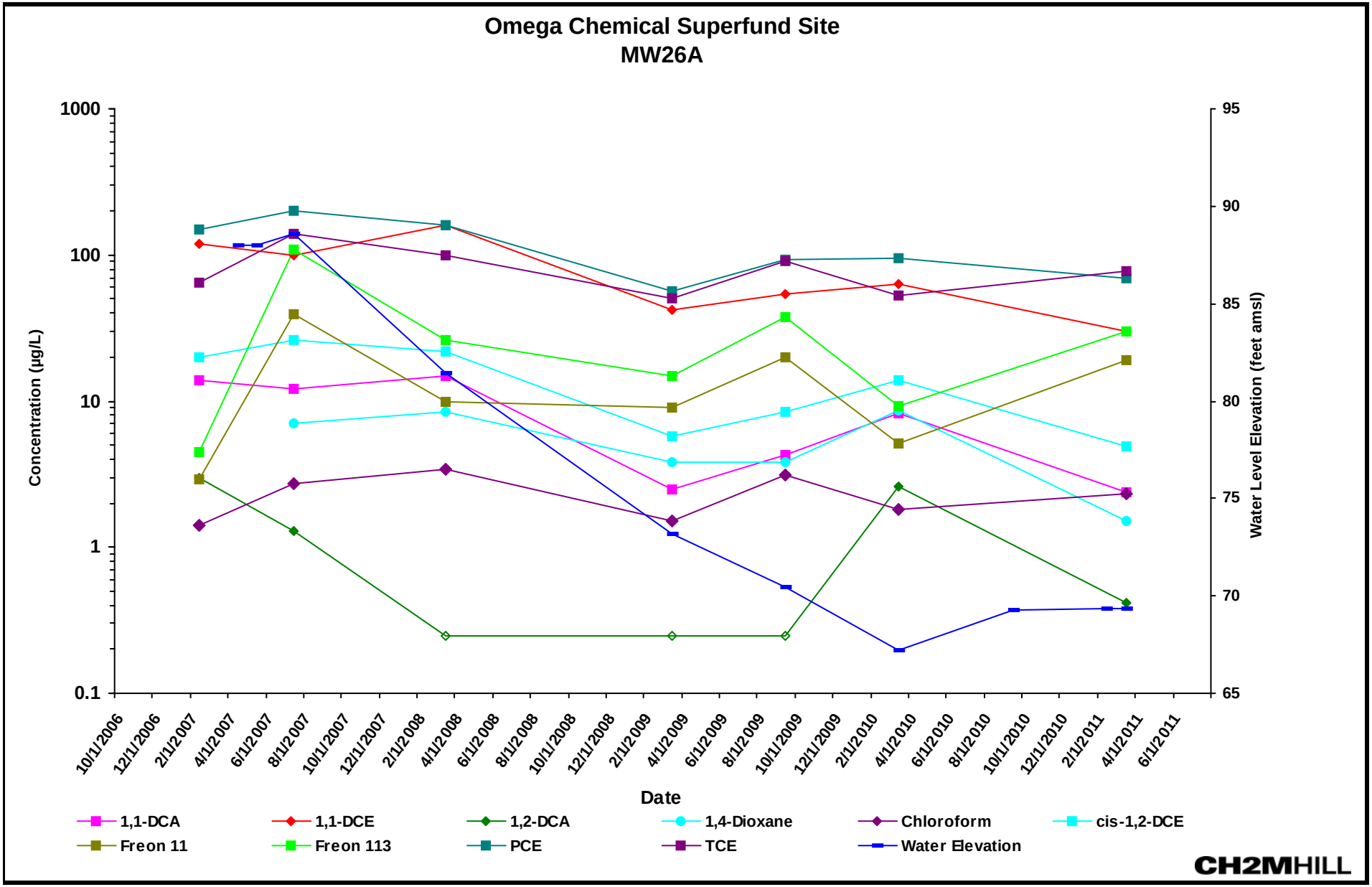

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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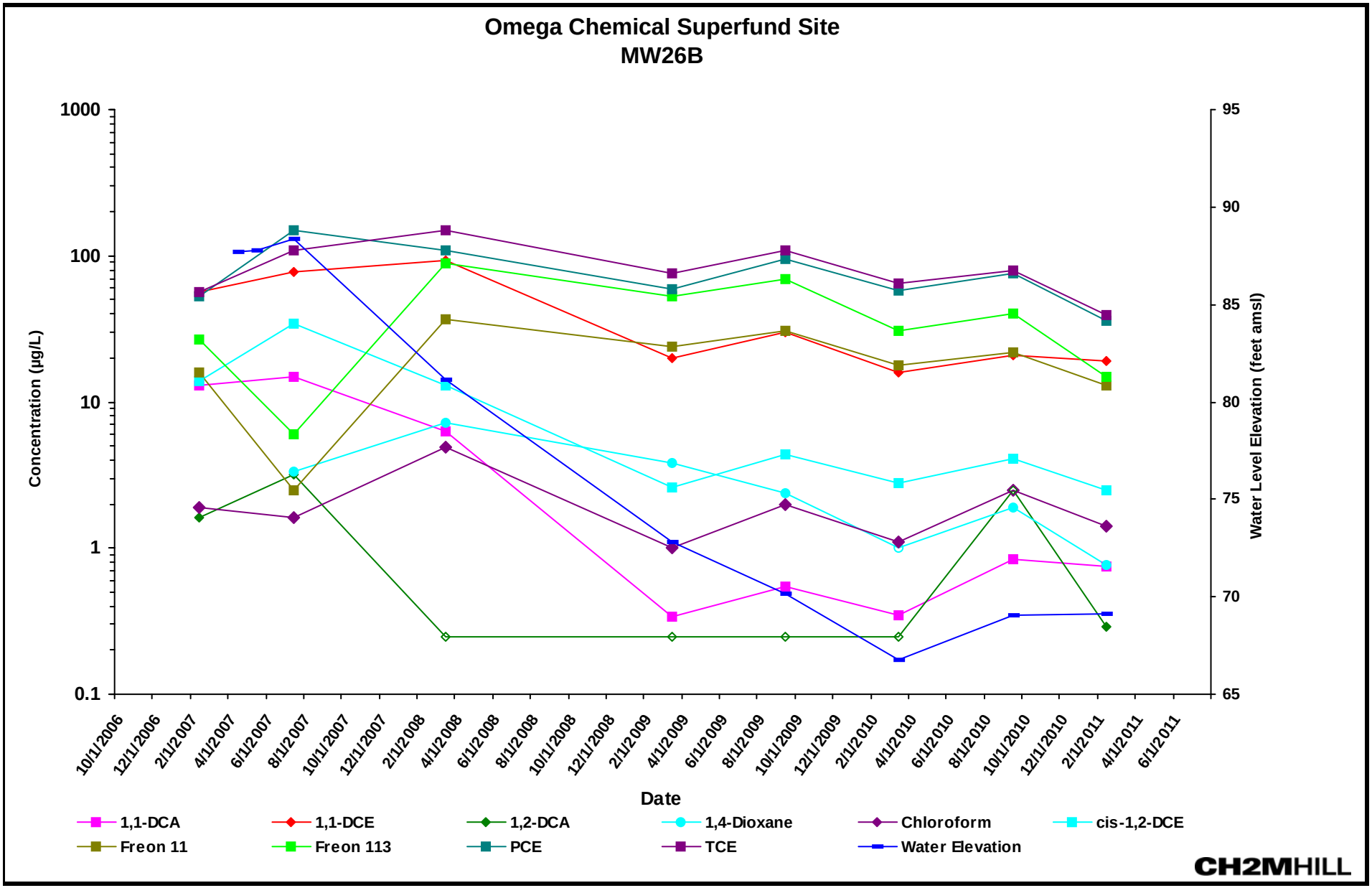

Notes:
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Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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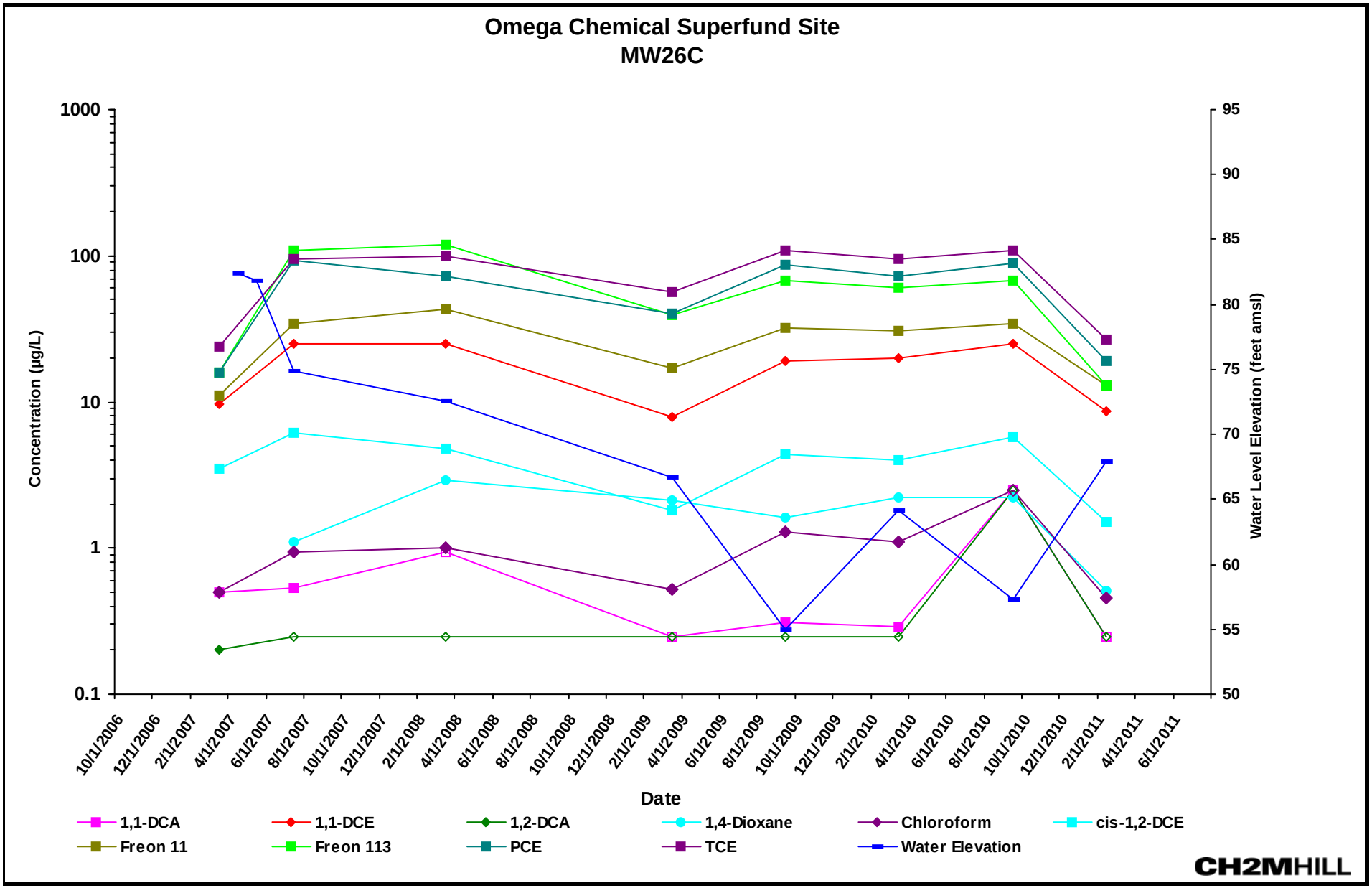

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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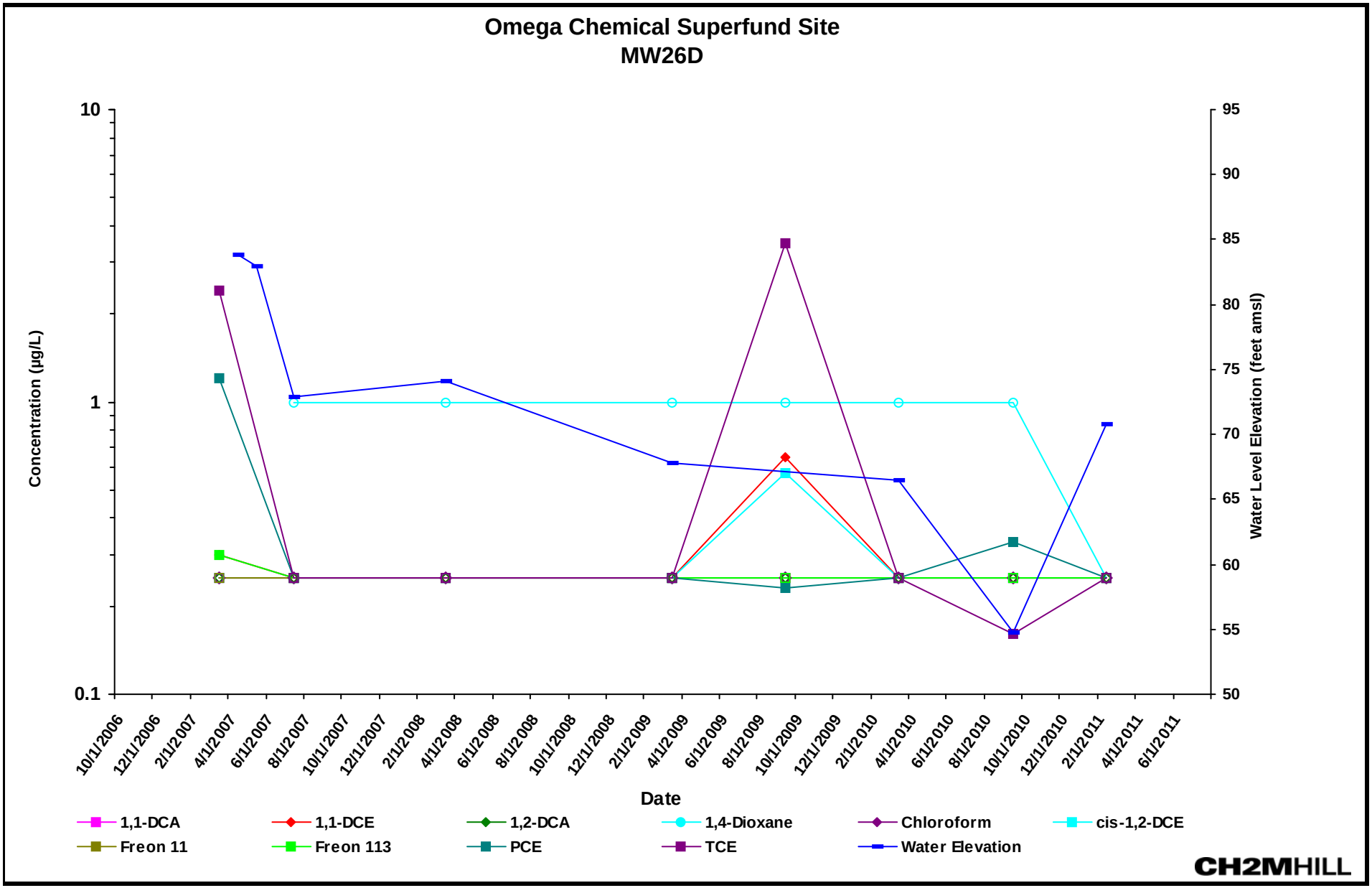

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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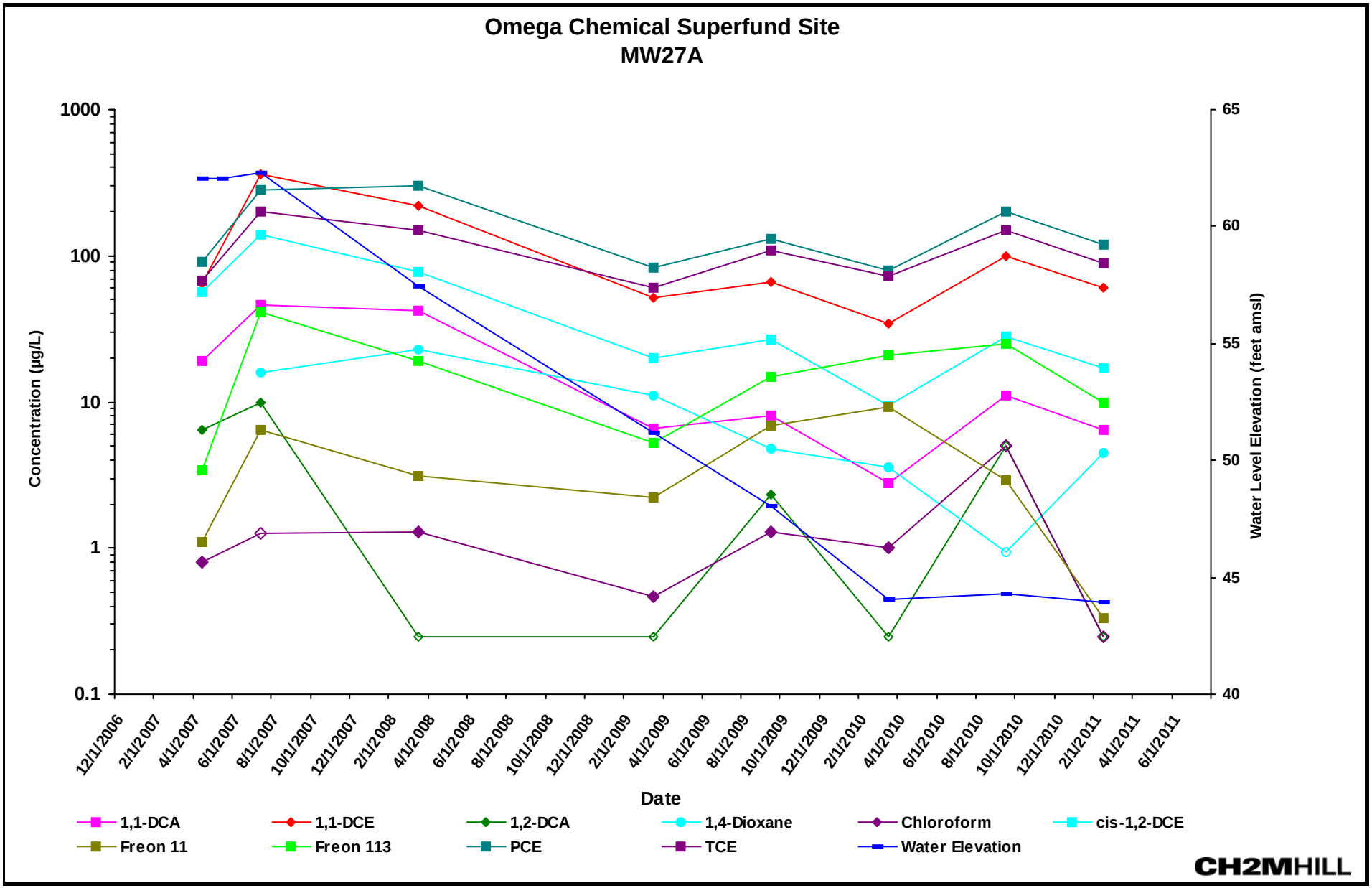

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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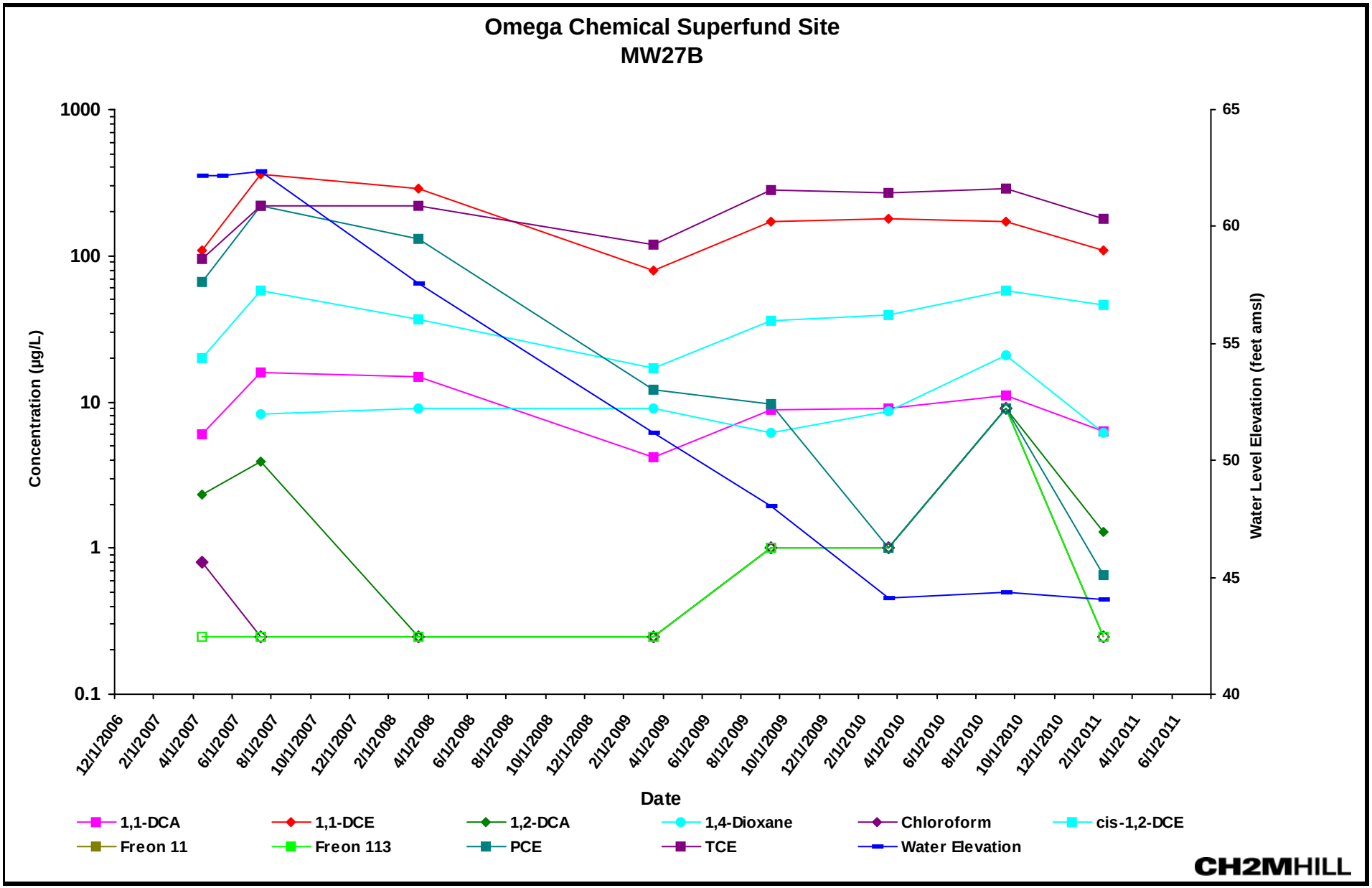

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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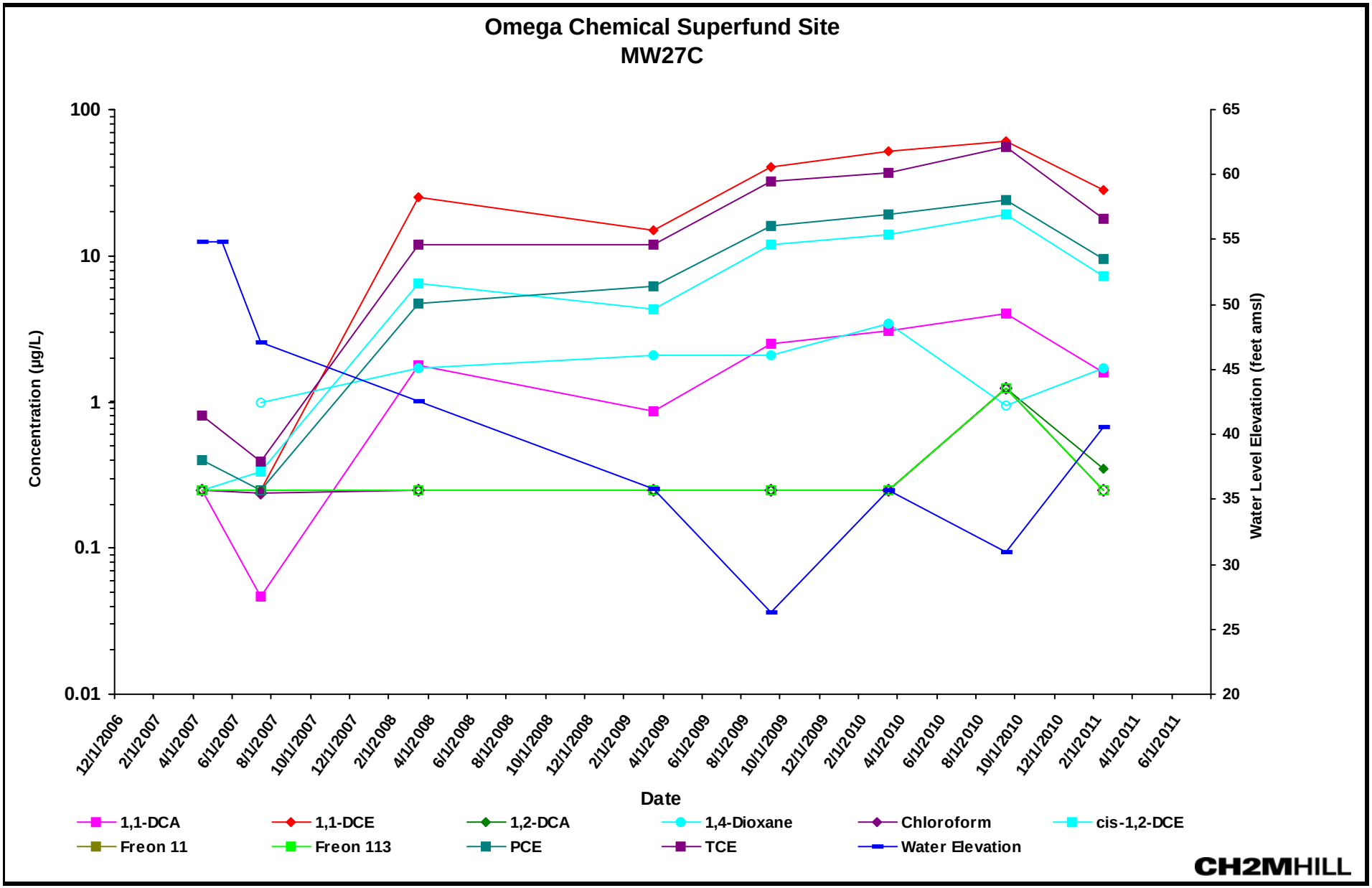

Notes:
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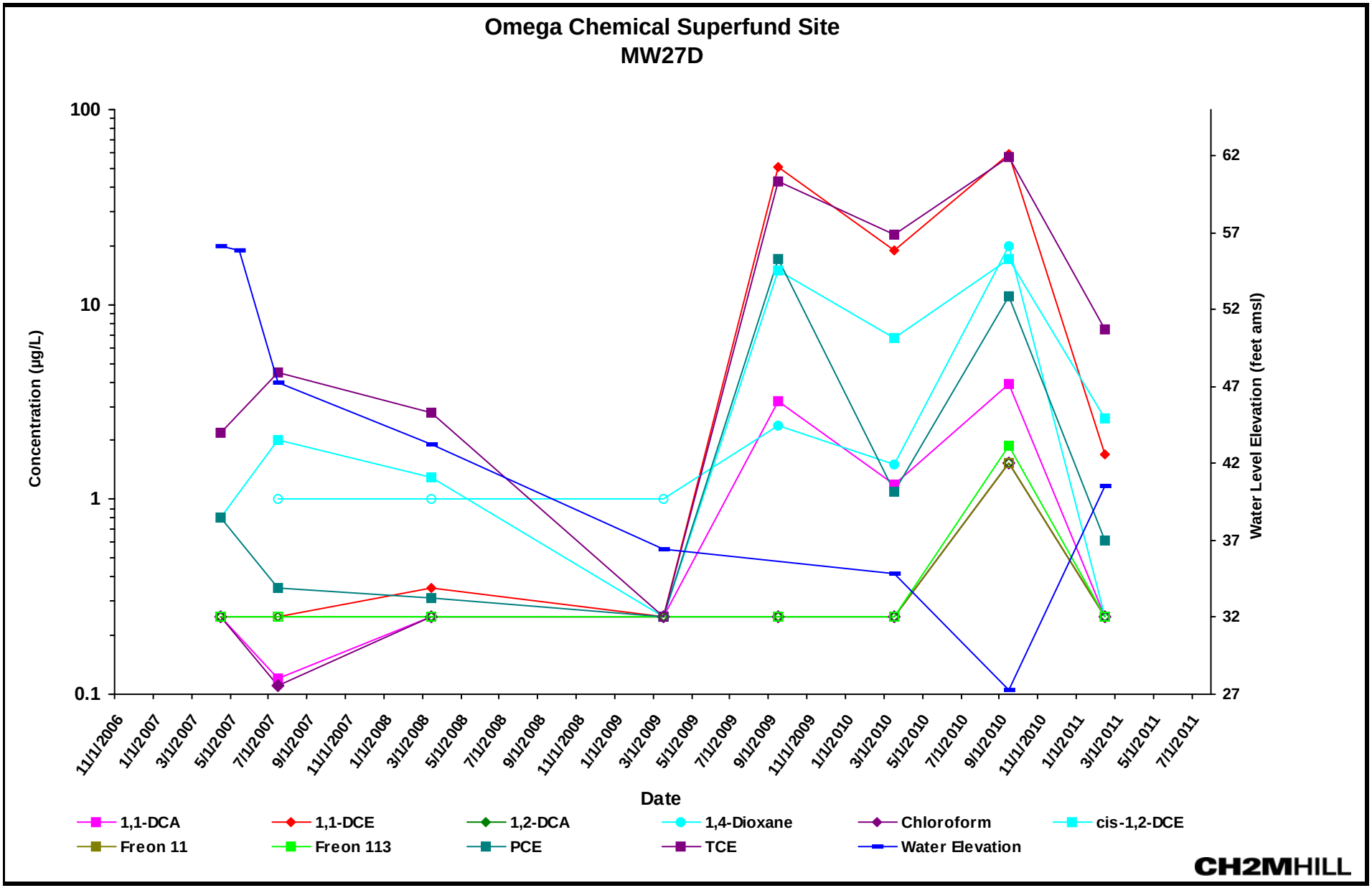

Notes:
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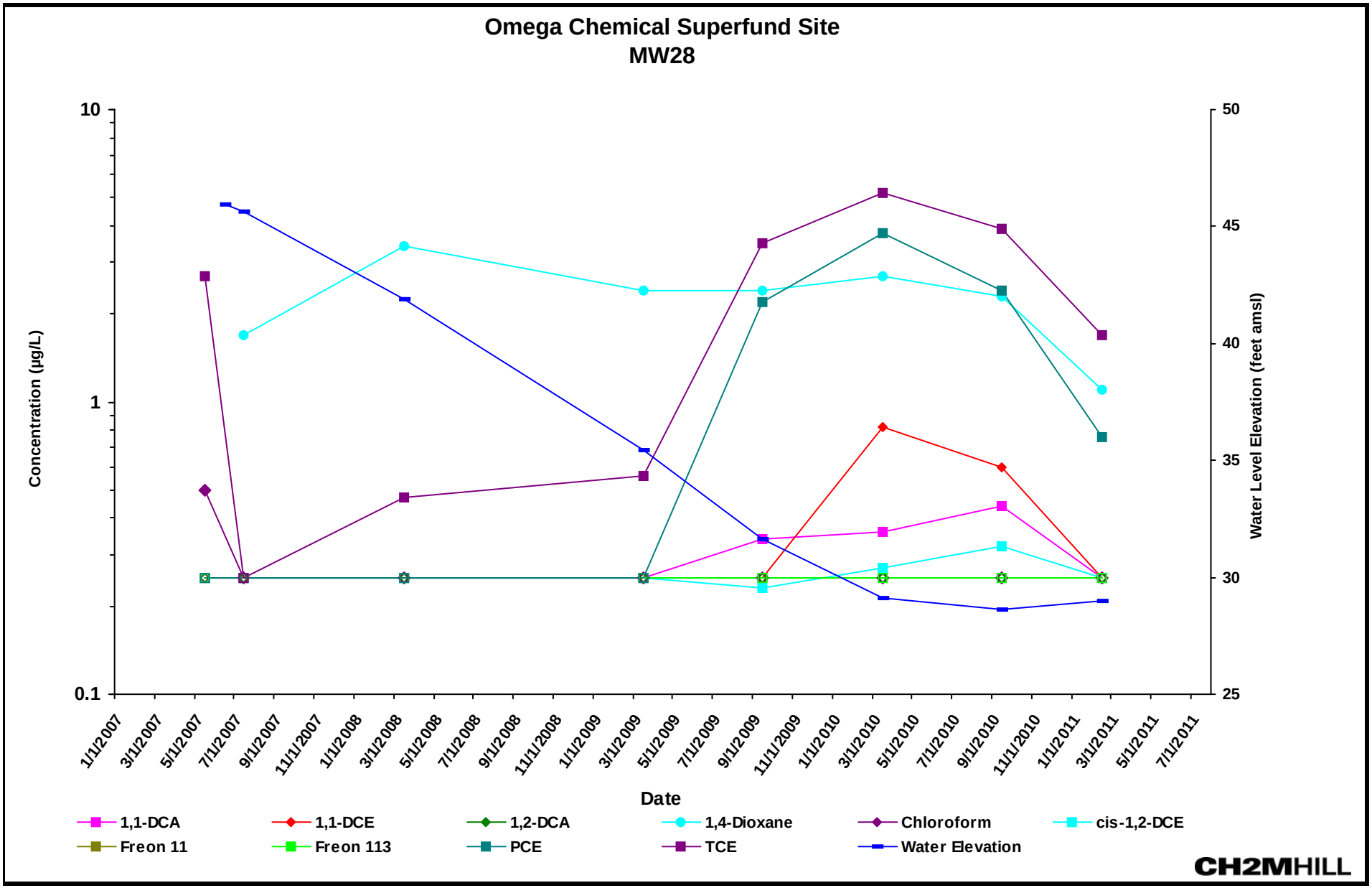

Notes:
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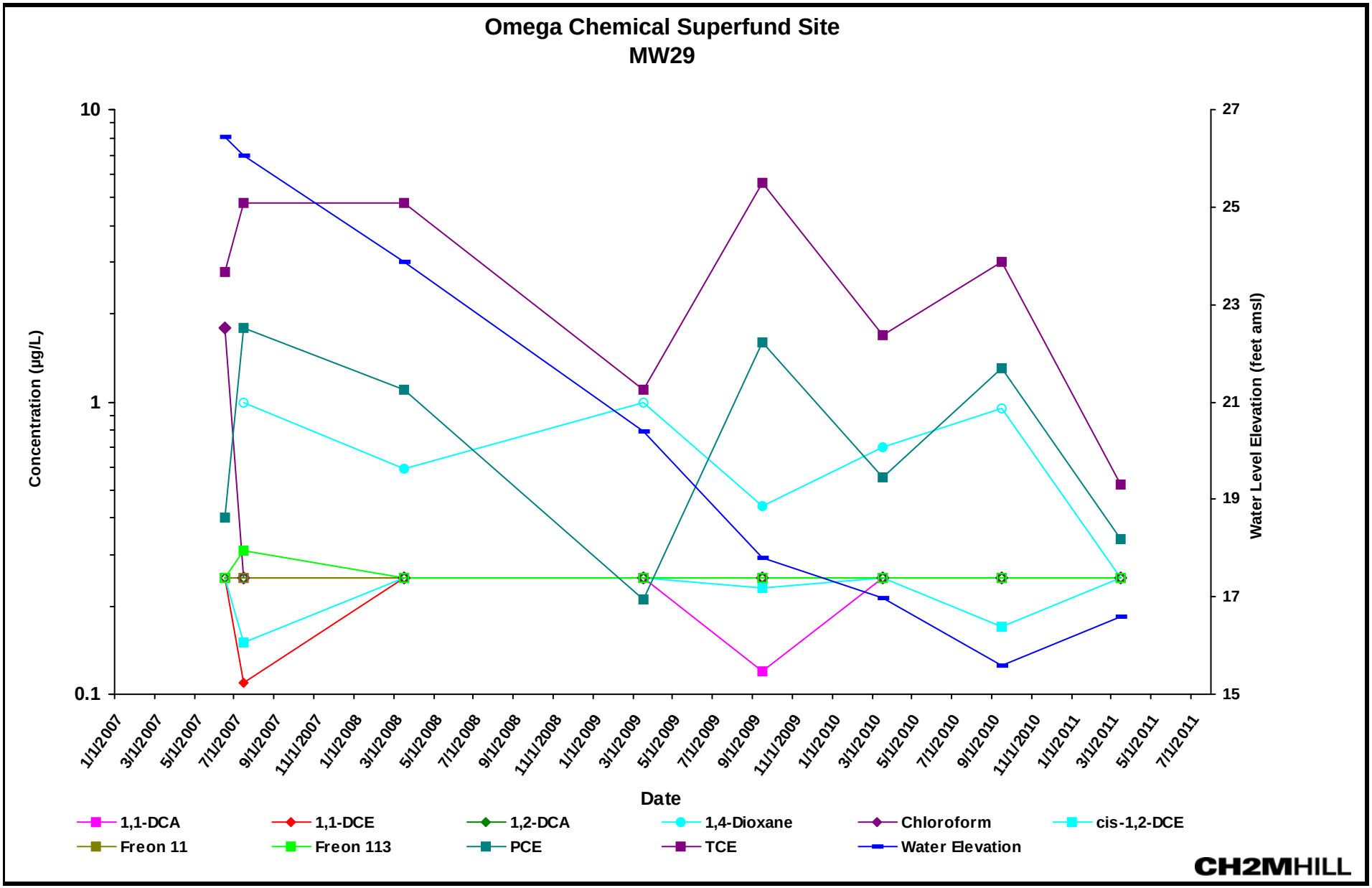

Notes:
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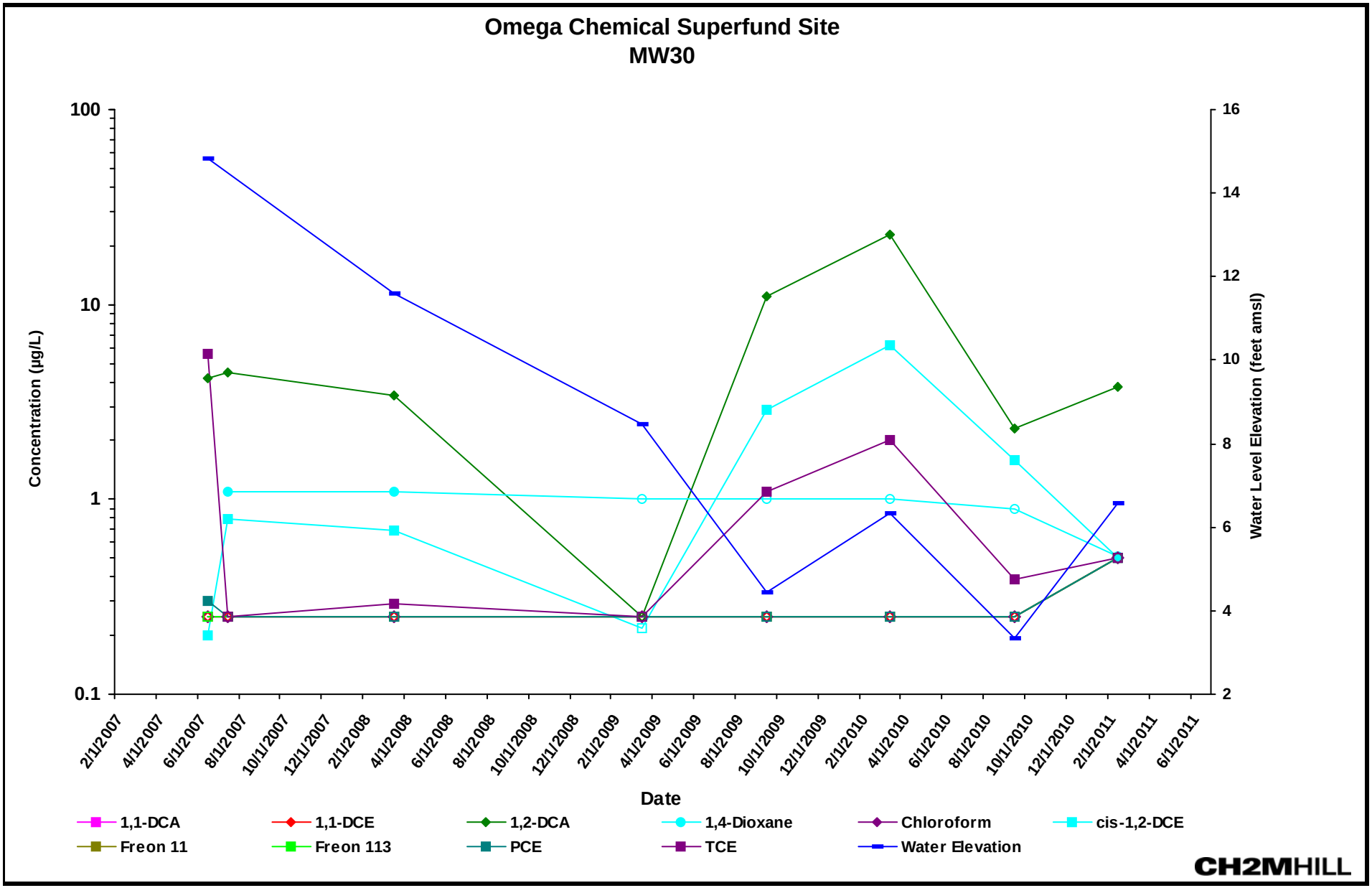

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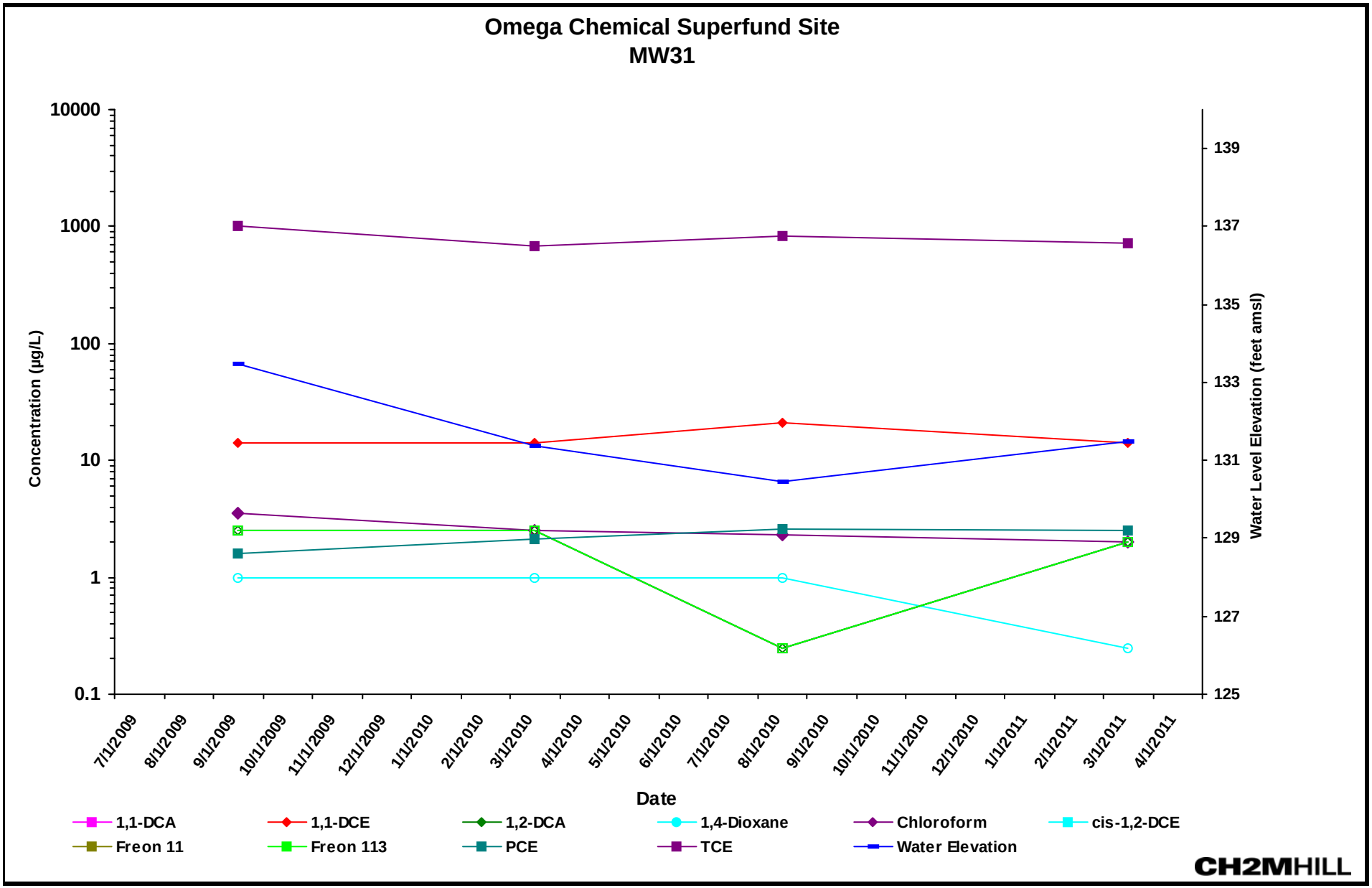

Notes:
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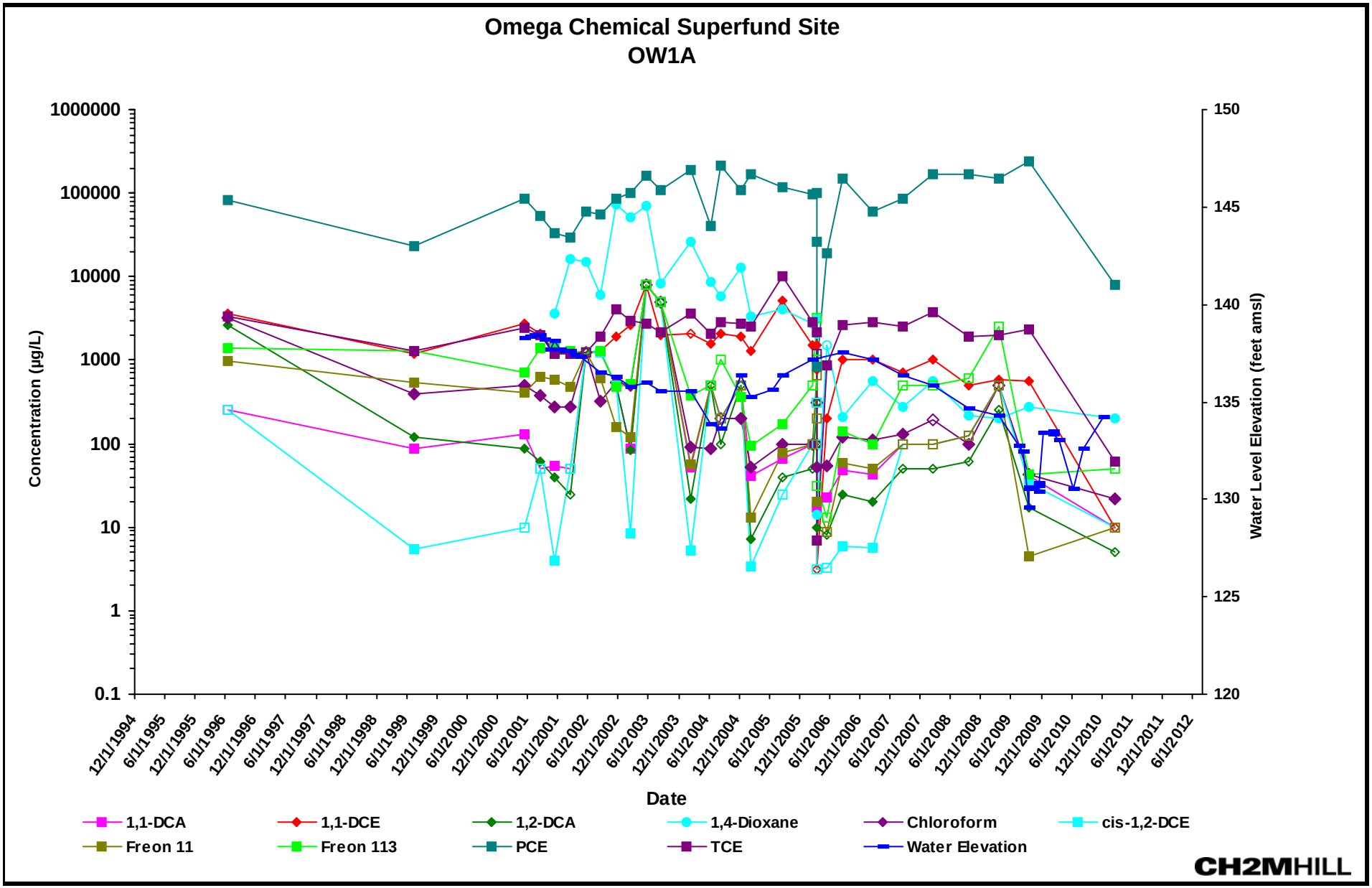

Notes:
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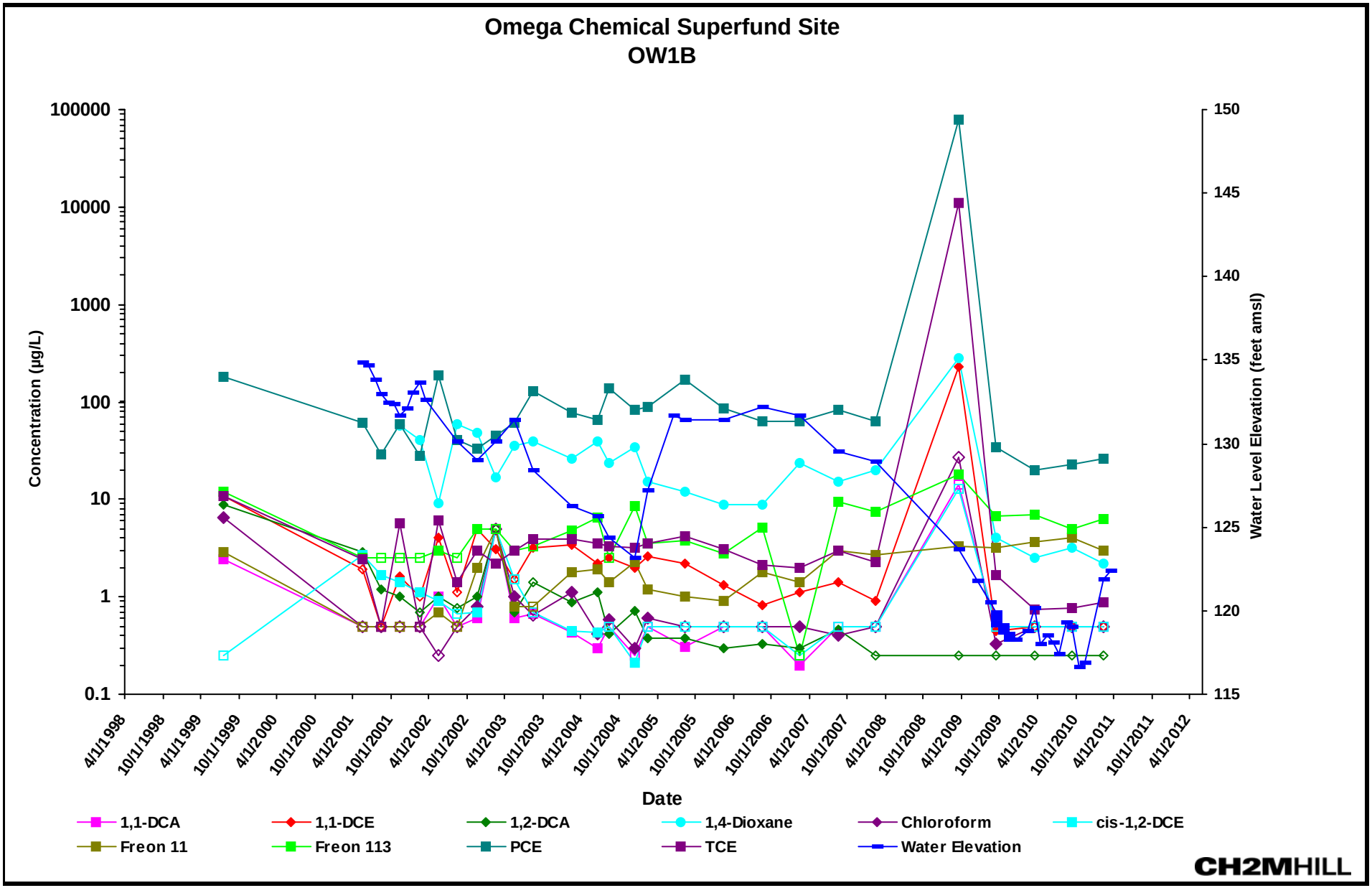

Notes:
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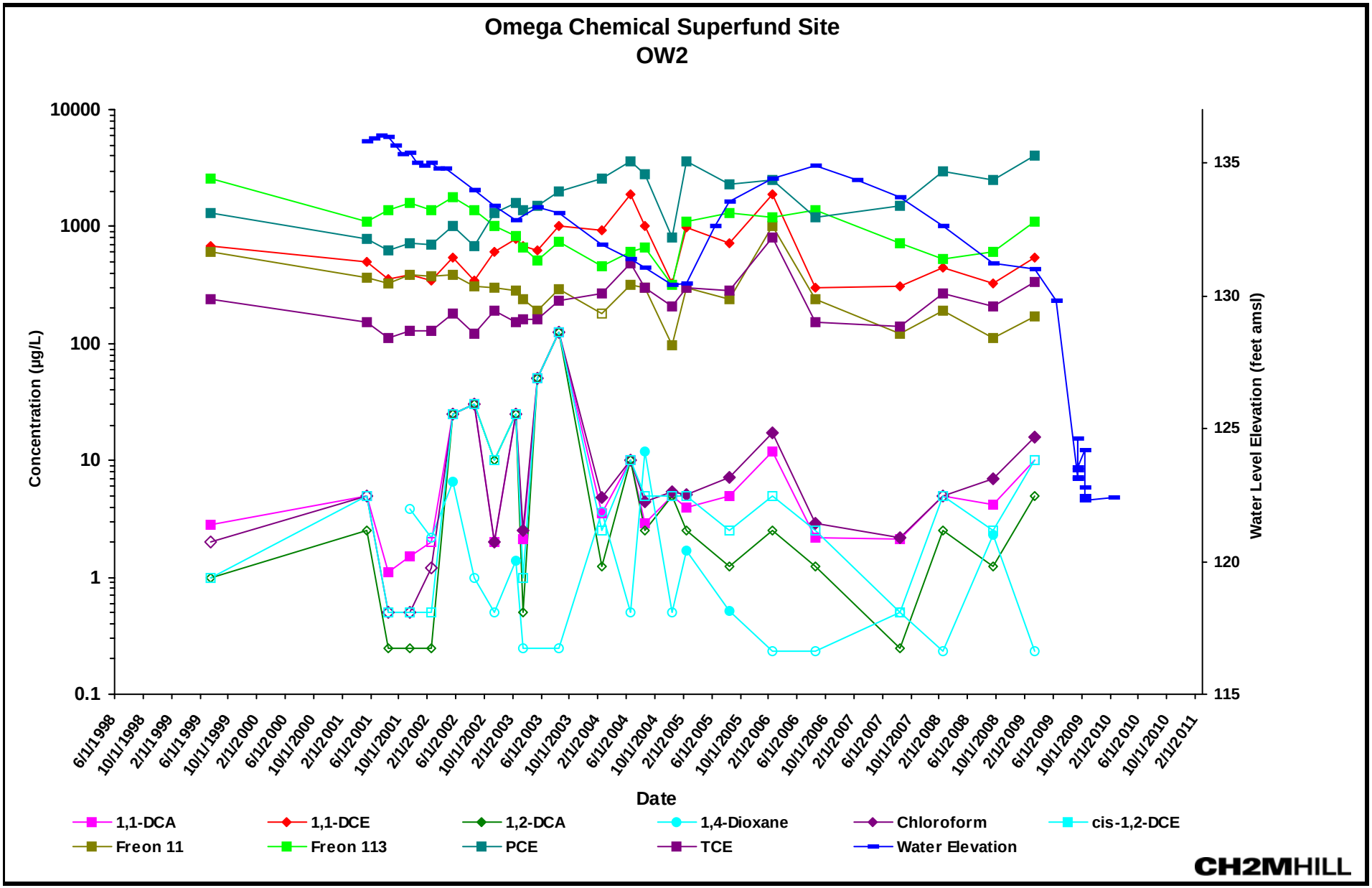

Notes:
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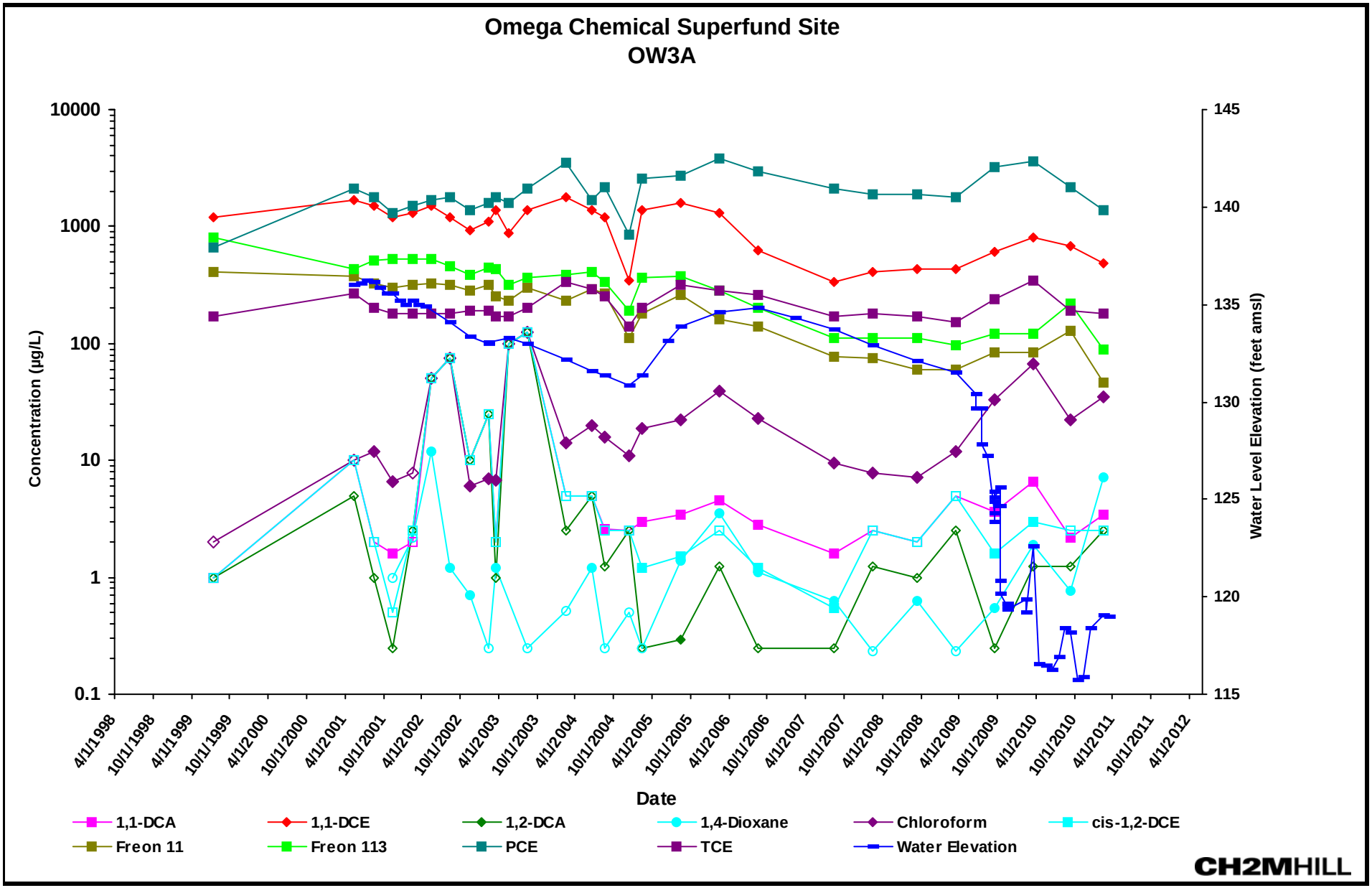

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
Freon 11: Trichlorofluoromethane Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane PCE: Tetrachloroethene TCE: Trichloroethene
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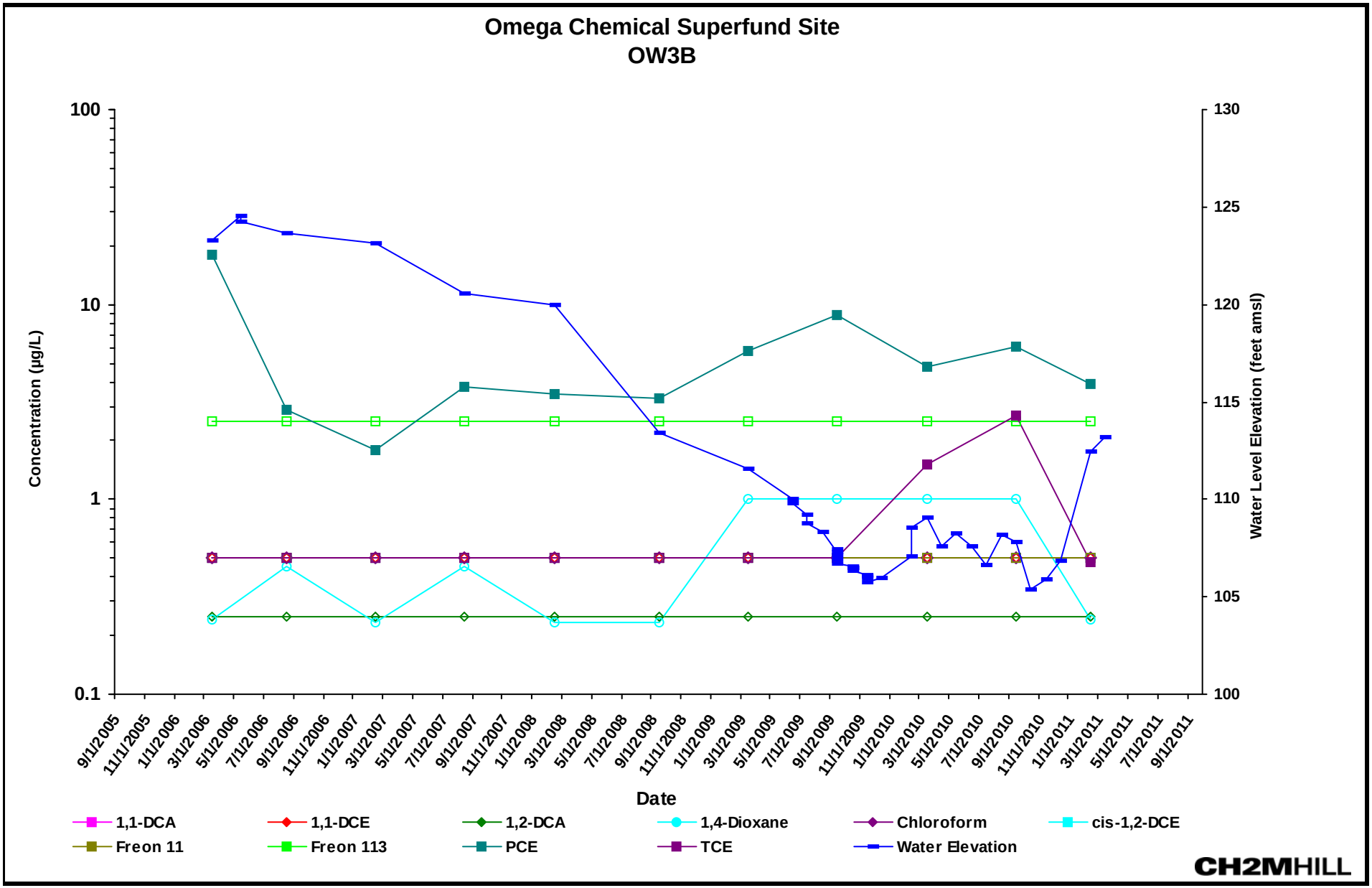

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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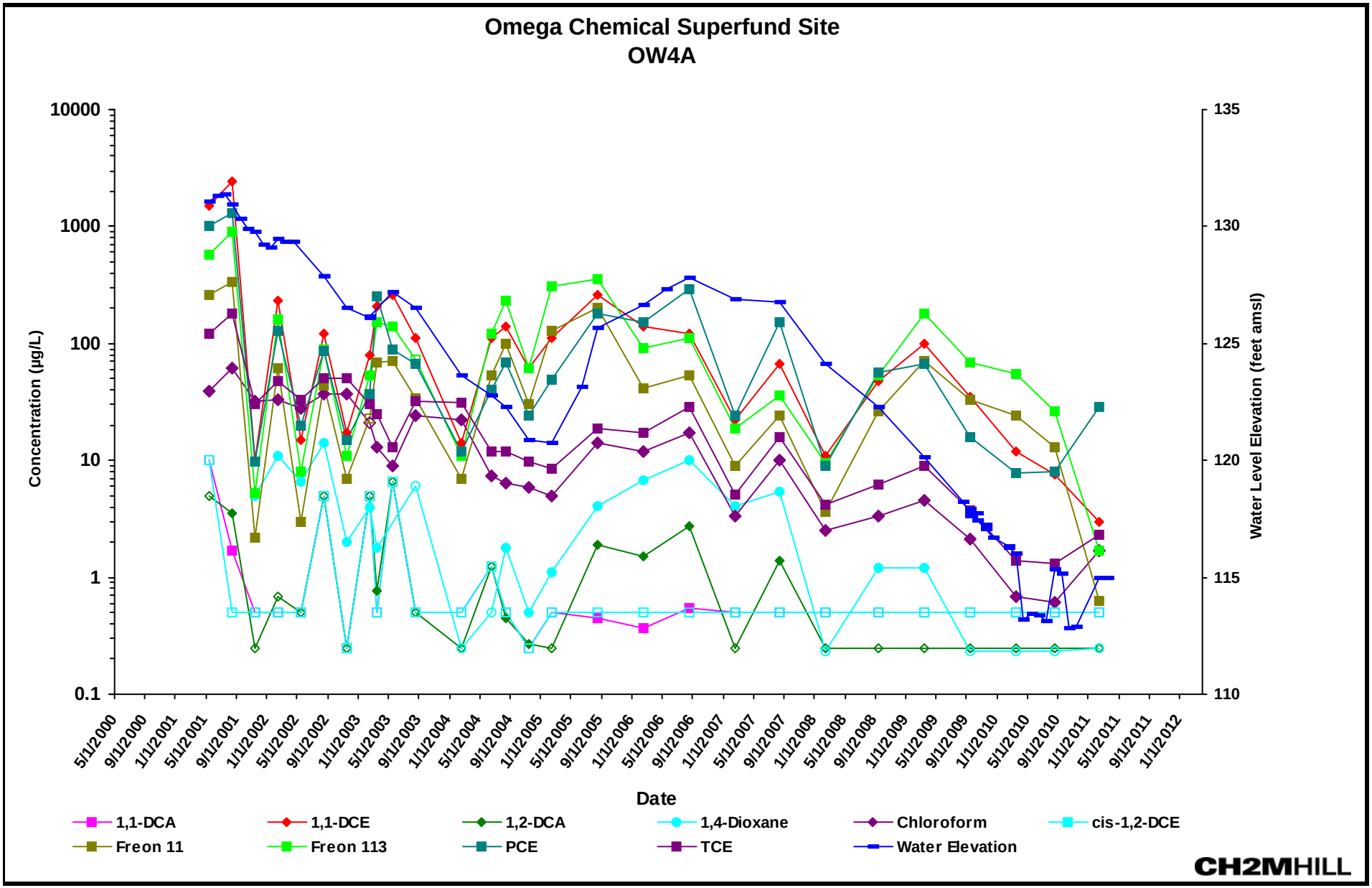

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
Freon 11: Trichlorofluoromethane **Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane** **PCE: Tetrachloroethene** **TCE: Trichloroethene**
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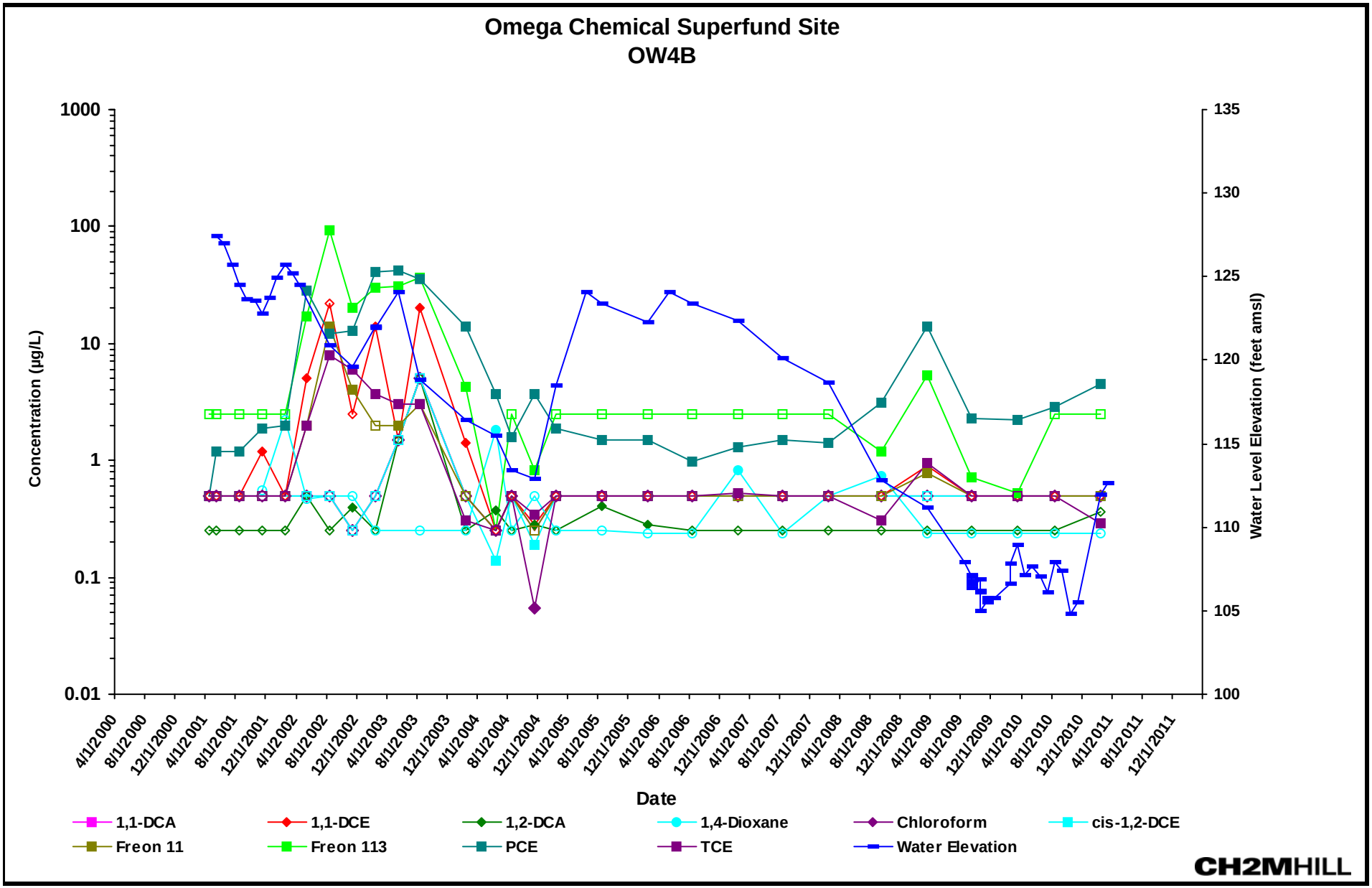

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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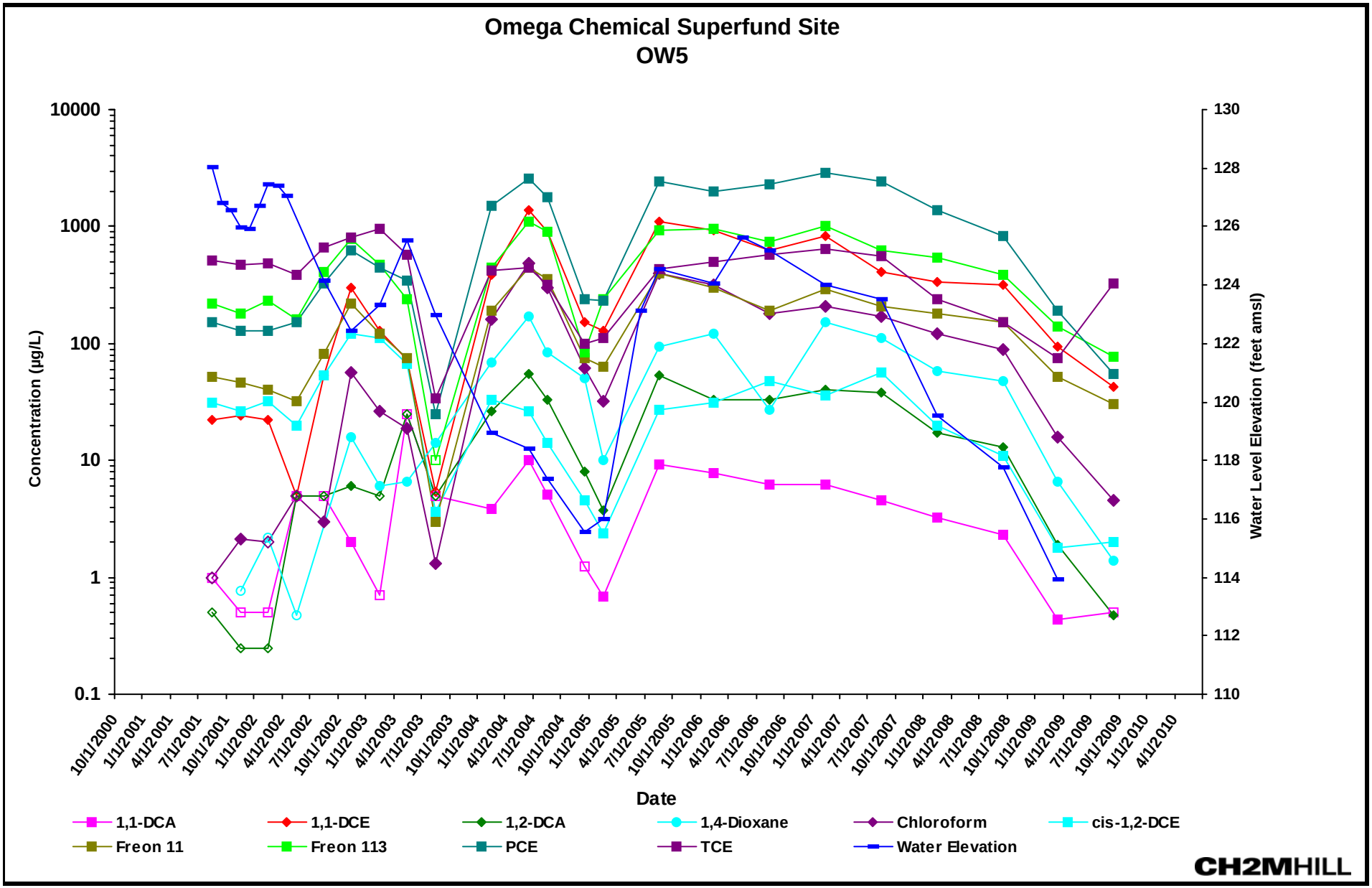

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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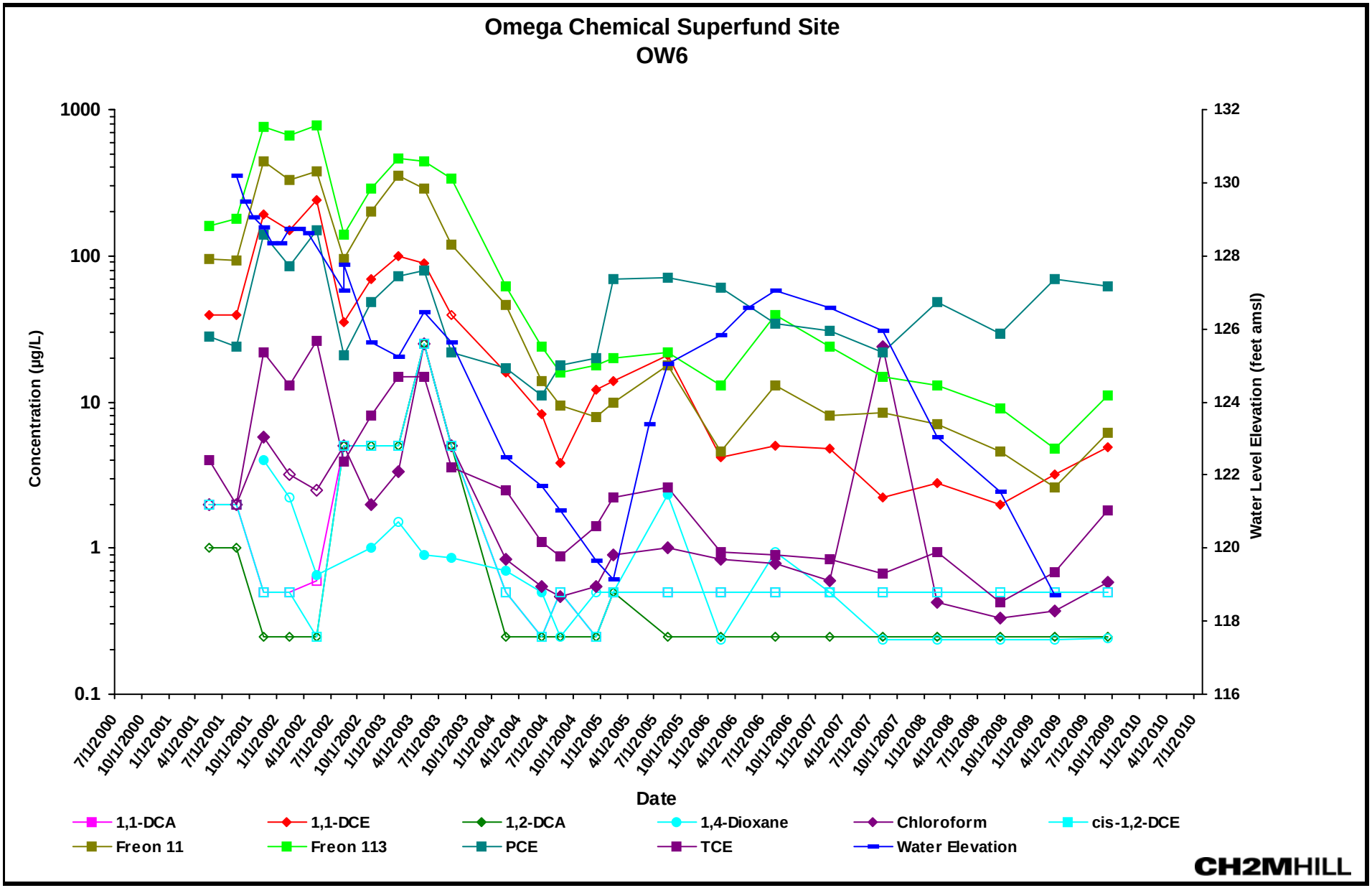

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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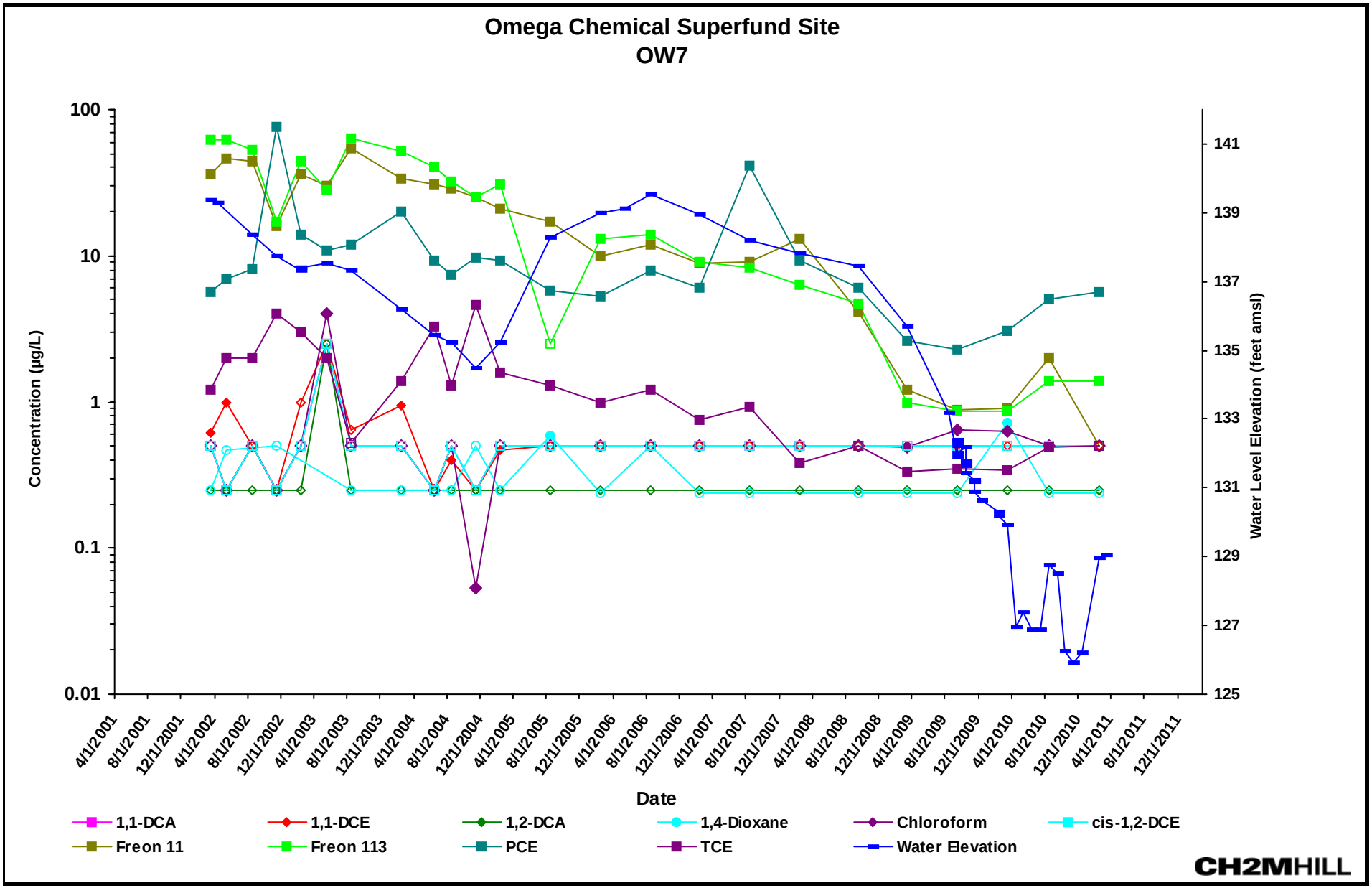

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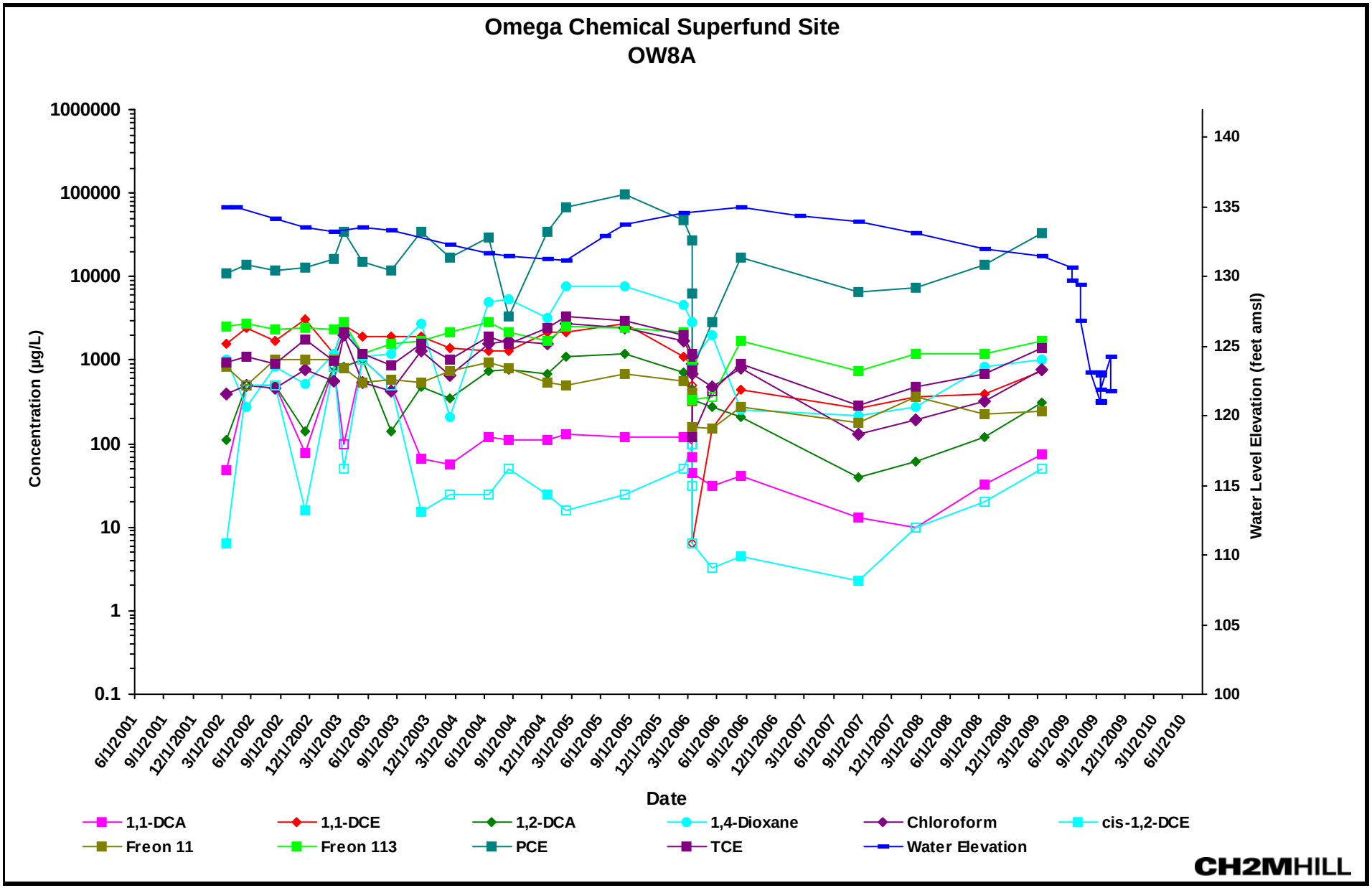

Notes:
1,1-DCA: 1,1-Dichloroethane 1,1-DCE: 1,1-Dichloroethene 1,2-DCA: 1,2-Dichloroethane 1,4-Dioxane: 1,4-Dioxane (p-dioxane) cis-1,2-DCE: cis-1,2-Dichloroethene
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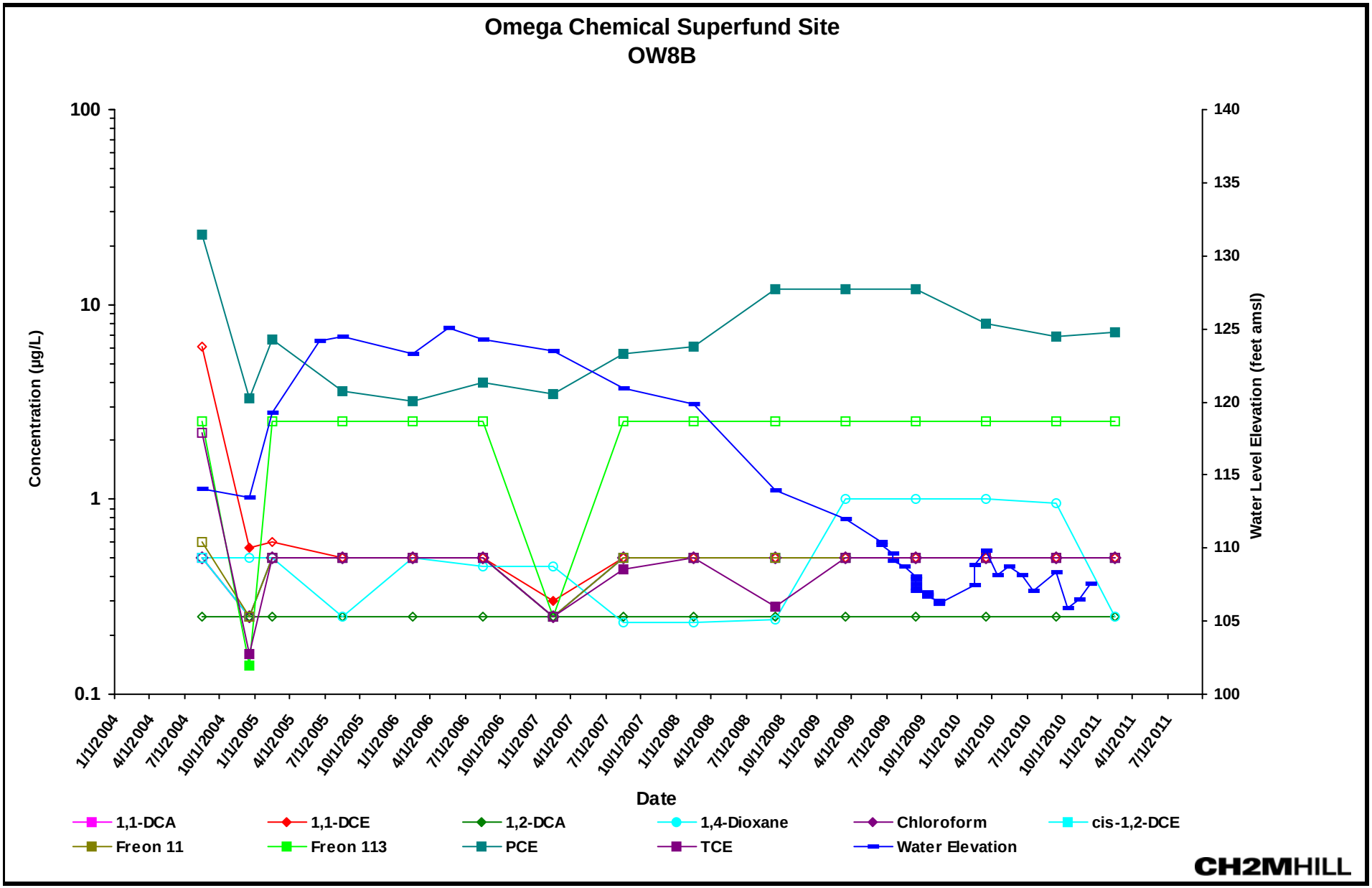

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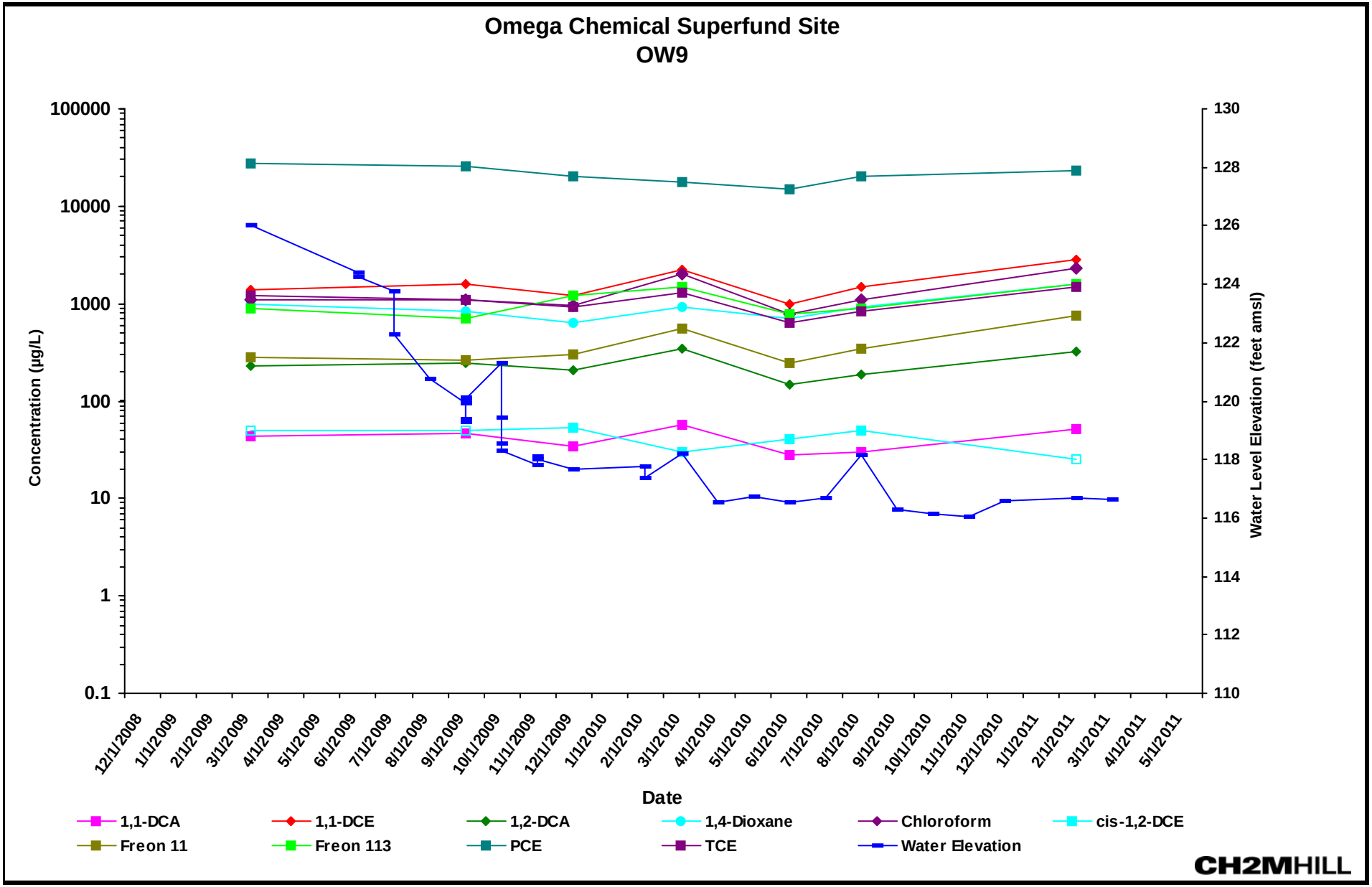

Notes:
1,1-DCA: 1,1-Dichloroethane **1,1-DCE: 1,1-Dichloroethene** **1,2-DCA: 1,2-Dichloroethane** **1,4-Dioxane: 1,4-Dioxane (p-dioxane)** **cis-1,2-DCE: cis-1,2-Dichloroethene**
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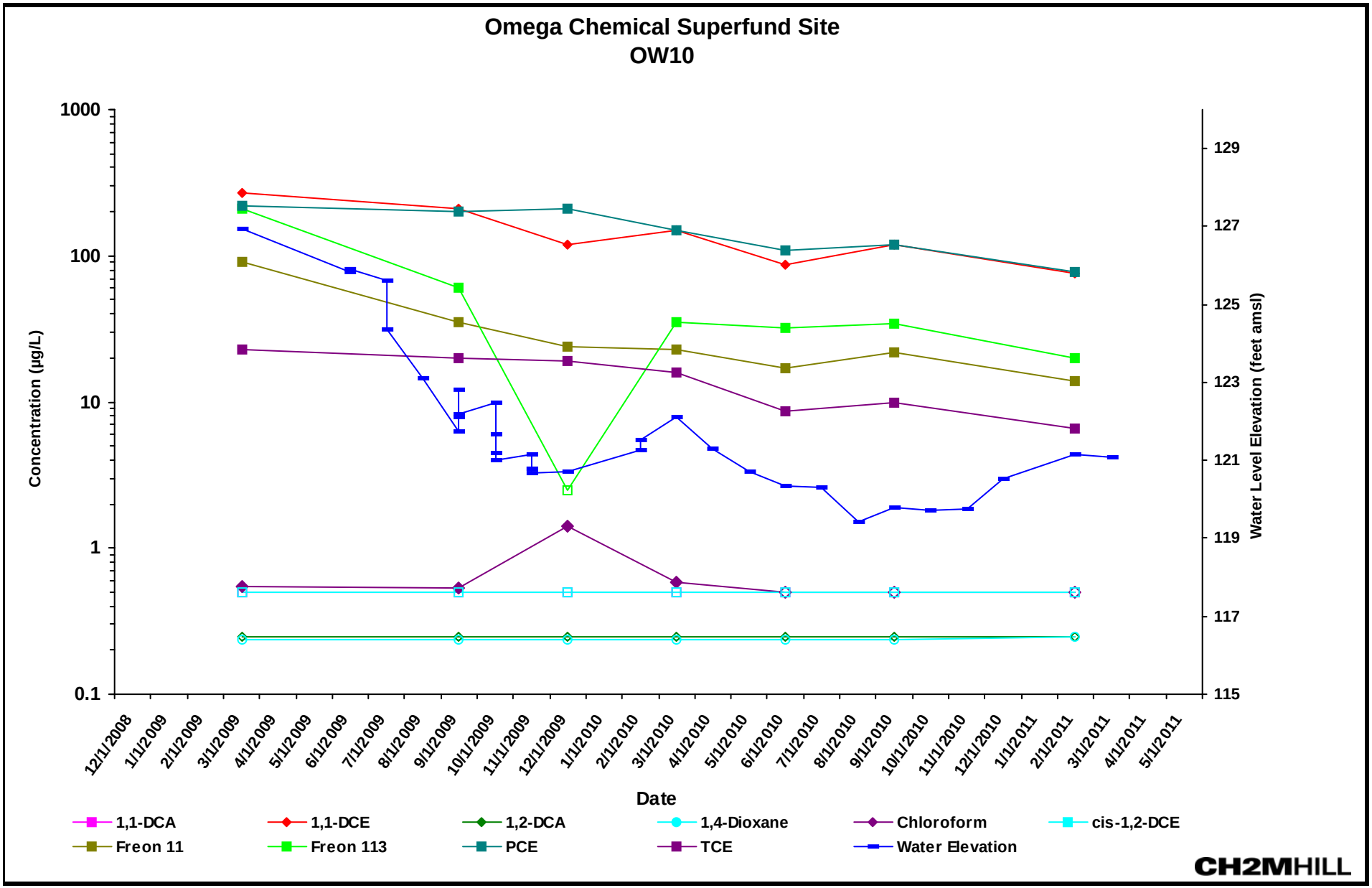

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