

2.4 地下水監測井水質、水位監測

表 2.4-1 108 年度地下水水質監測結果(1/2)

分析項目	單位	PTPZ-S W1	PTPZ-S W2	PTPZ-S W3	PTPZ-S W4	PTPZ-S W5	PTPZ-S W6	PTPZ-S W7	PTPZ-S W8-1	PTPZ-S W9	PTPZ-S W10-1	PTPZ-S W11	PTPZ-S W12	MW-3	MW-4	MW-11	監測 標準	管制 標準
採樣日期		108.03.25	108.03.25	108.03.26	108.03.28	108.03.27	108.03.26	108.03.19	108.03.19	108.03.14	108.03.14	108.03.20	108.03.20	108.03.27	108.03.28	108.03.18		
pH	—	7.3	7.0	7.2	7.0	7.0	7.0	7.0	7.1	7.2	6.9	7.0	7.0	7.0	7.0	7.1	—	—
導電度	μs/cm 25°C	670	880	806	1020	896	844	711	948	970	970	786	794	736	946	884	—	—
總溶解固體物	mg/L	388	530	418	684	582	495	403	622	607	594	554	480	501	591	505	1250	—
生化需氧量	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	—
氟鹽	mg/L	<0.10	0.61	0.92	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	0.13	<0.10	4	8
氯鹽	mg/L	45.4	67.8	51.0	97.1	42.6	63.8	35.2	65.4	69.7	59.7	48.0	43.5	21.3	63.8	66.4	625	—
硫酸鹽	mg/L	38.3	81.1	60.6	70.2	96.1	46.3	35.7	75.8	92.0	104	70.9	54.2	71.6	65.6	68.7	625	—
氨氮	mg/L	0.15	0.85	0.95	0.09	1.15	4.84	ND	0.21	4.37	0.58	<0.04	0.06	ND	0.90	0.75	0.25	—
硝酸鹽氮	mg/L	0.17	0.02	0.06	0.01	0.42	<0.01	0.01	<0.10	1.58	0.06	0.03	ND	1.06	0.02	0.01	50	100
亞硝酸鹽氮	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	ND	ND	0.01	<0.01	<0.01	<0.01	0.04	ND	ND	5	10
總有機碳	mg/L	1.0	0.6	0.9	0.6	0.7	0.6	0.6	0.5	0.8	0.7	0.5	0.4	0.6	0.6	0.5	10	—
總硬度	mg/L	261	362	314	417	342	327	311	428	386	392	380	327	392	407	295	750	—
油脂	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	—
氯化物	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	0.5
MTBE	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	1
TPH	mg/L	0.207	0.228	ND	<0.187	ND	ND	ND	0.236	ND	0.211	<0.187	0.187	ND	<0.187	0.222	5	10
總酚	mg/L	0.0036	0.0042	ND	<0.0020	0.0030	ND	<0.0020	<0.0034	<0.0020	0.0145	0.0030	0.0028	ND	0.0023	0.0020	0.14	—
鉛	mg/L	ND	ND	0.007	0.006	0.006	ND	ND	ND	<0.005	<0.005	ND	<0.005	0.007	0.006	ND	0.05	0.1
鎘	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025	0.05
鉻	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	0.5
銅	mg/L	ND	ND	ND	<0.005	ND	<0.005	ND	ND	ND	ND	ND	0.010	<0.005	<0.005	ND	5	10
鋅	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND	ND	ND	25	50
鎳	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	1
鐵	mg/L	0.152	0.06	4.37	2.82	0.015	0.162	0.604	2.1	1.09	<0.010	0.268	2.48	<0.010	1.59	0.777	1.5	—
錳	mg/L	0.700	0.126	1.02	0.828	0.750	0.888	0.499	0.831	0.278	0.372	ND	0.770	0.519	0.486	0.574	0.25	—
砷	mg/L	<0.0010	<0.0020	0.0154	0.0063	ND	<0.0010	<0.0010	0.0120	0.0053	ND	0.0020	0.0054	ND	0.0036	0.0058	0.25	0.5
汞	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.02
苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.05
甲苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	10
乙苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	7
間、對-二甲苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	100
鄰-二甲苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	100
萘	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.4

表 2.4-1 108 年度地下水水質監測結果(2/2)

分析項目	單位	PTPZ-S W1	PTPZ-S W2	PTPZ-S W3	PTPZ-S W4	PTPZ-S W5	PTPZ-S W6	PTPZ-S W7	PTPZ-S W8-1	PTPZ-S W9	PTPZ-S W10-1	PTPZ-S W11	PTPZ-S W12	MW-3	MW-4	MW-11	監測 標準	管制 標準
採樣日期		108.03.25	108.03.25	108.03.26	108.03.28	108.03.27	108.03.26	108.03.19	108.03.19	108.03.14	108.03.14	108.03.20	108.03.20	108.03.27	108.03.28	108.03.18		
甲苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	10
乙苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	7
間,對-二甲苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	100
鄰-二甲苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	100
苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.4
氯苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	1
1,2-二氯苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	6
1,4-二氯苯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.75
氯甲烷	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.3
二氯甲烷	mg/L	<0.00100	ND	<0.00100	<0.00100	<0.00100	0.00195	0.00187	ND	0.00260	ND	<0.00100	ND	ND	ND	ND	—	0.05
氯仿	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	1
四氯化碳	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.05
1,1-二氯乙烷	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	8.5
1,2-二氯乙烷	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.05
1,1,1-三氯乙烷	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	2
1,1,2-三氯乙烷	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.05
氯乙烯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.02
1,1-二氯乙烯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.07
順-1,2-二氯乙烯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.7
反-1,2-二氯乙烯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	1
三氯乙烯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.05
四氯乙烯	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.05
2,4,5-三氯酚	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	3.7
2,4,6-三氯酚	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.1
五氯酚	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.08
3,3-二氯聯苯胺	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	0.1

註：1.檢測數據位數之表示，依行政院環保署公告 99 年 03 月 05 日環檢一字第 0990000919 號「檢測報告位數表示規定」。

2.地下水污染監測標準參考來源為行政院環保署於 102 年 12 月 18 日(102)環署土字第 1020109443 號令訂定發布之「地下水污染監測標準」中第二類之標準。

3.地下水污染管制標準參考來源為行政院環保署於 102 年 12 月 18 日(102)環署土字第 1020109478 號令修正發布之「地下水污染管制標準」中第二類之標準。

4.間,對-二甲苯與鄰-二甲苯均為二甲苯之異構物。

5.以 ND 表示者，表該樣品測值小於方法偵測極限(MDL)；以<數字表示者，表該樣品測值大於方法偵測極限但小於定量極限(QDL)。

6.灰色網底加粗體表示達地下水污染監測標準，粗體表示達地下水污染管制標準。

表 2.4-2 鄰近測站地下水水質監測結果

測站	採樣日期	氨氮	鐵	錳
		(mg.L)	(mg.L)	(mg.L)
第二類監測標準		0.25	1.5	0.25
前進國小	107.10.22	0.95	2.26	0.675
凌雲國小	107.10.22	<0.01	<0.005	0.388
廣安國小	107.10.17	<0.01	0.102	5.87
公館國小	108.04.15	0.11	5.11	0.501
公館國小	108.01.11	0.1	4.82	0.536
公館國小	107.10.22	0.12	4.36	0.556
公館國小	107.07.02	0.12	5.6	0.476
公館國小	107.05.04	0.11	5.41	0.529
公館國小	107.01.12	0.11	5.78	0.548

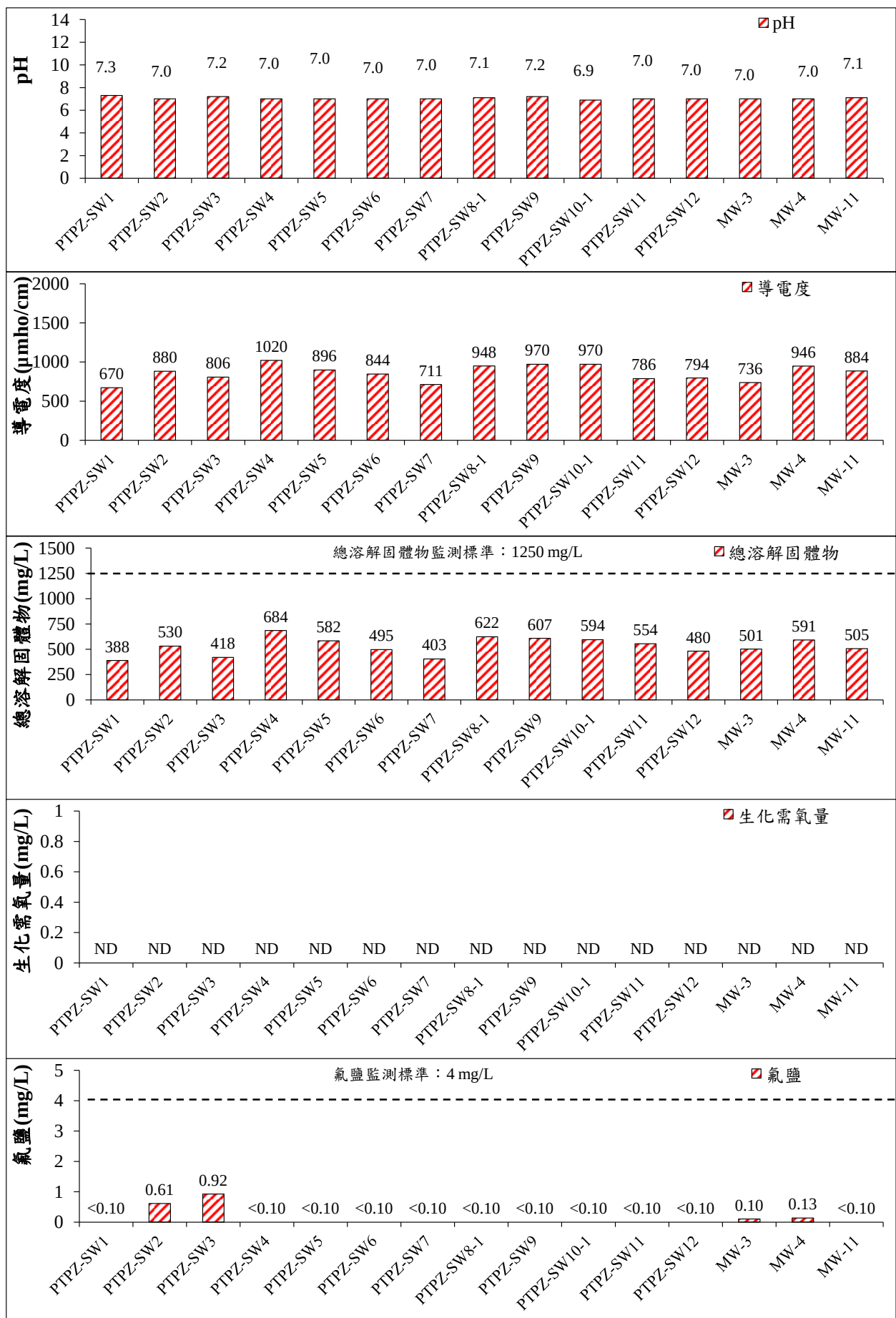


圖 2.4-1 108 年度地下水水質變化圖(1/6)

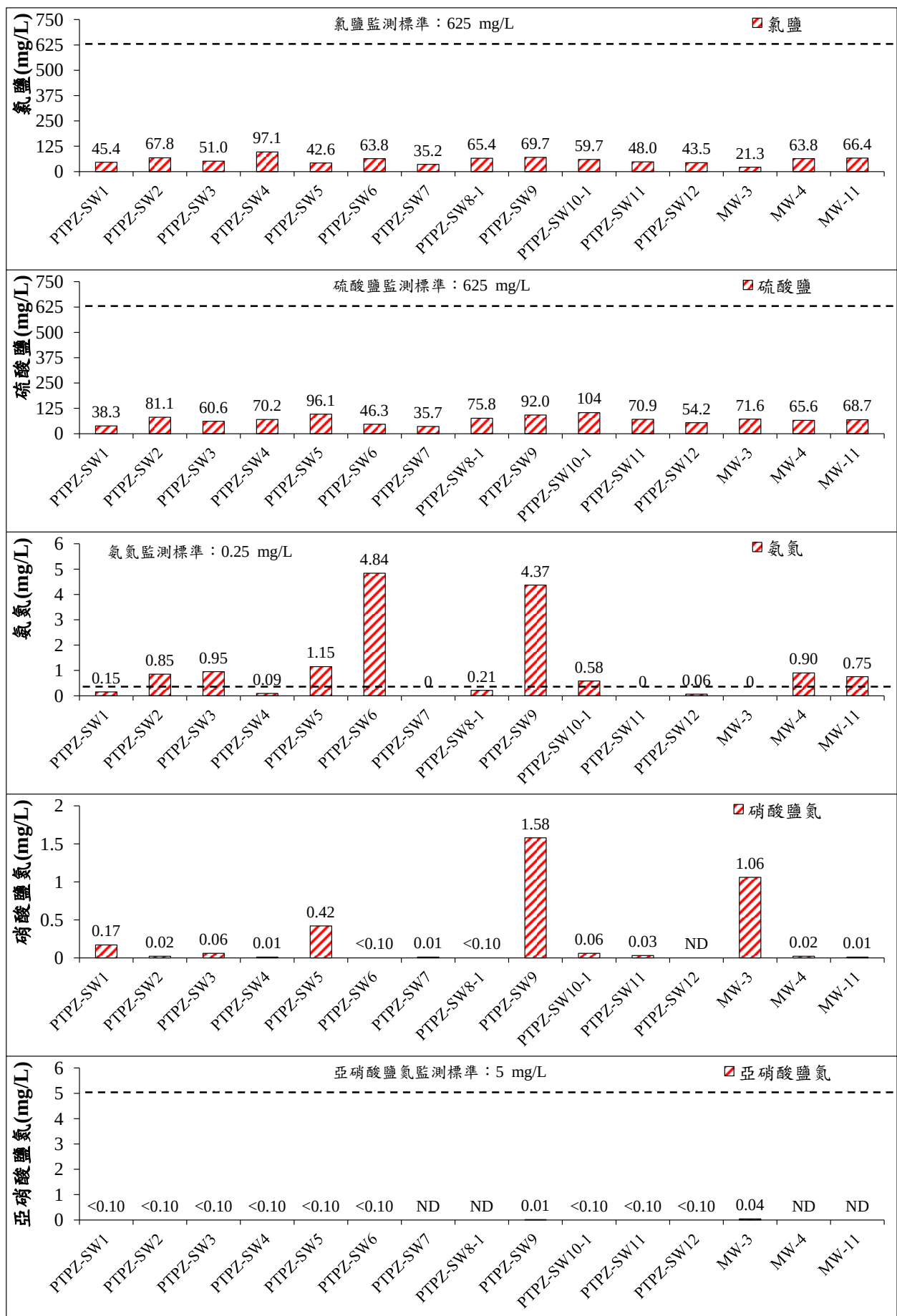


圖 2.4-1 108 年度地下水水質變化圖(2/6)

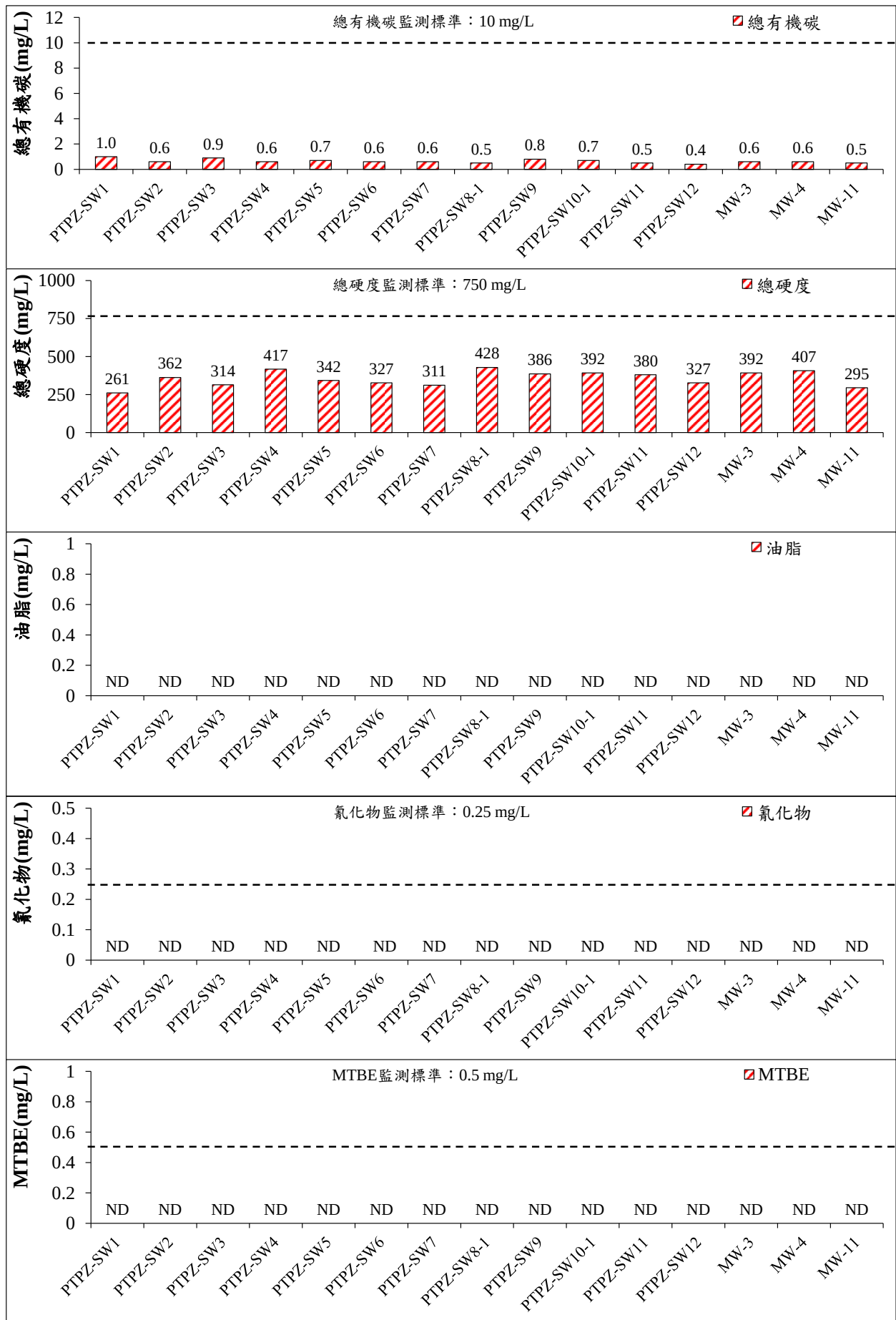


圖 2.4-1 108 年度地下水水質變化圖(3/6)

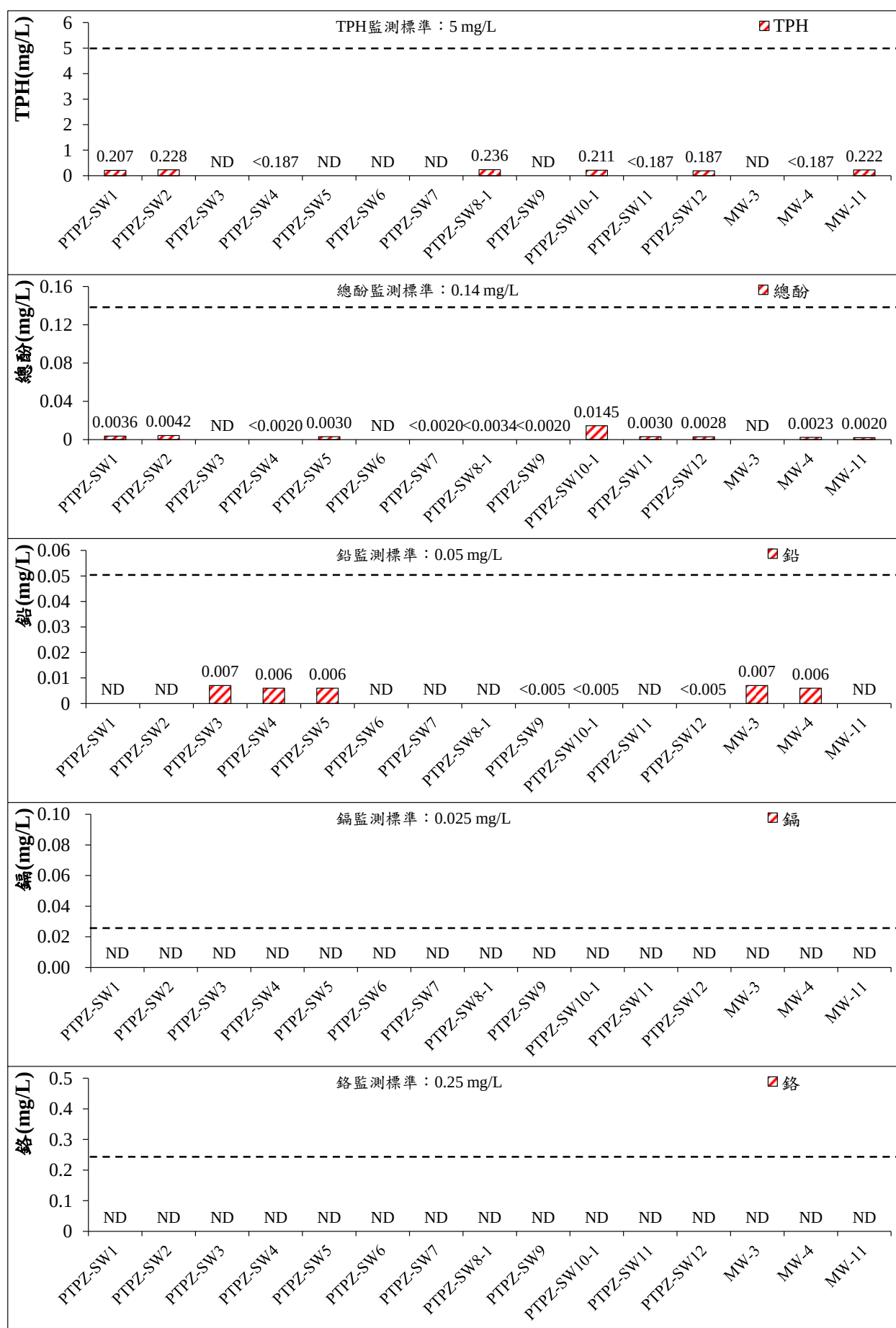


圖 2.4-1 108 年度地下水水質變化圖(4/6)

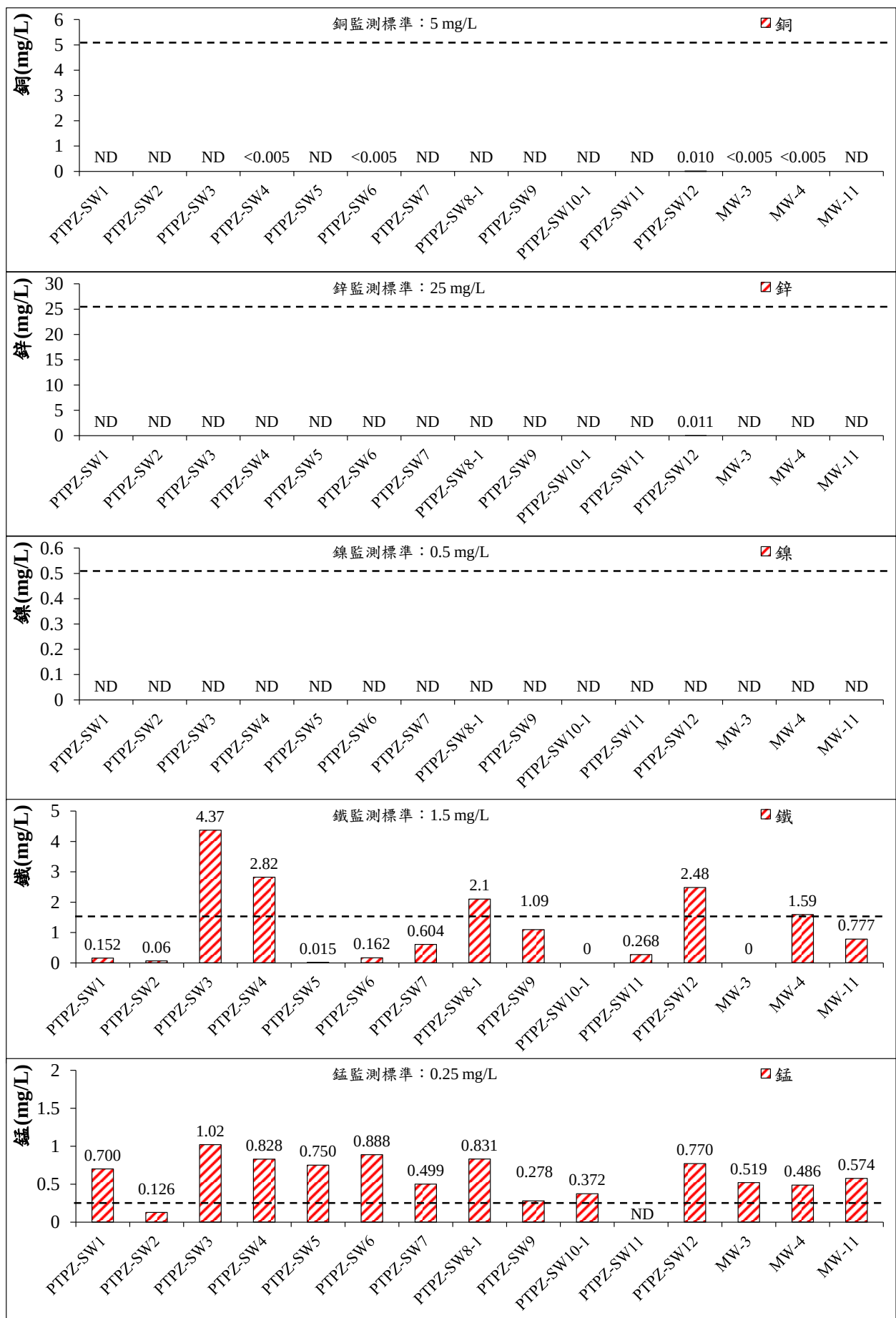


圖 2.4-1 108 年度地下水水質變化圖(5/6)

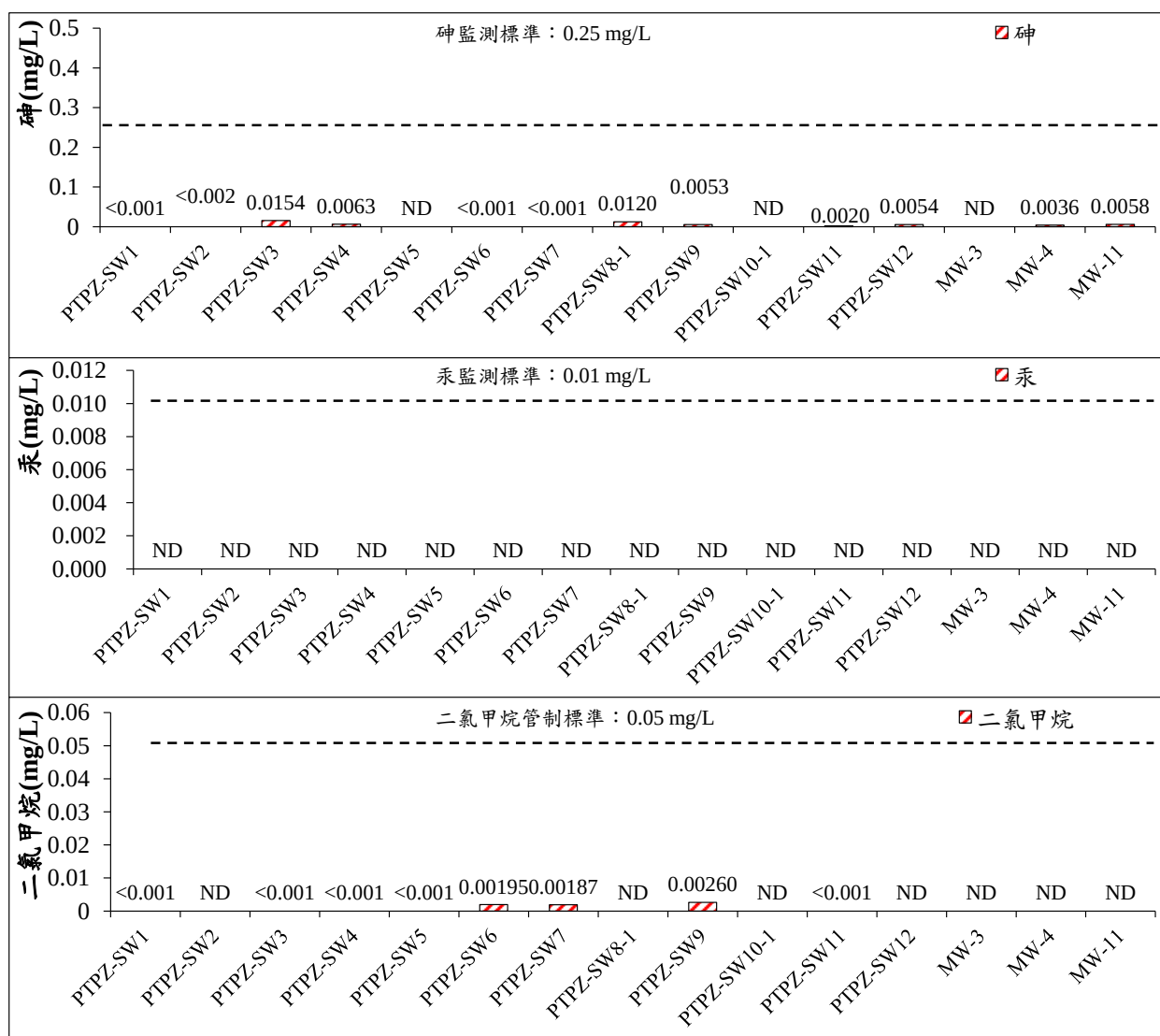


圖 2.4-1 108 年度地下水水質變化圖(6/6)

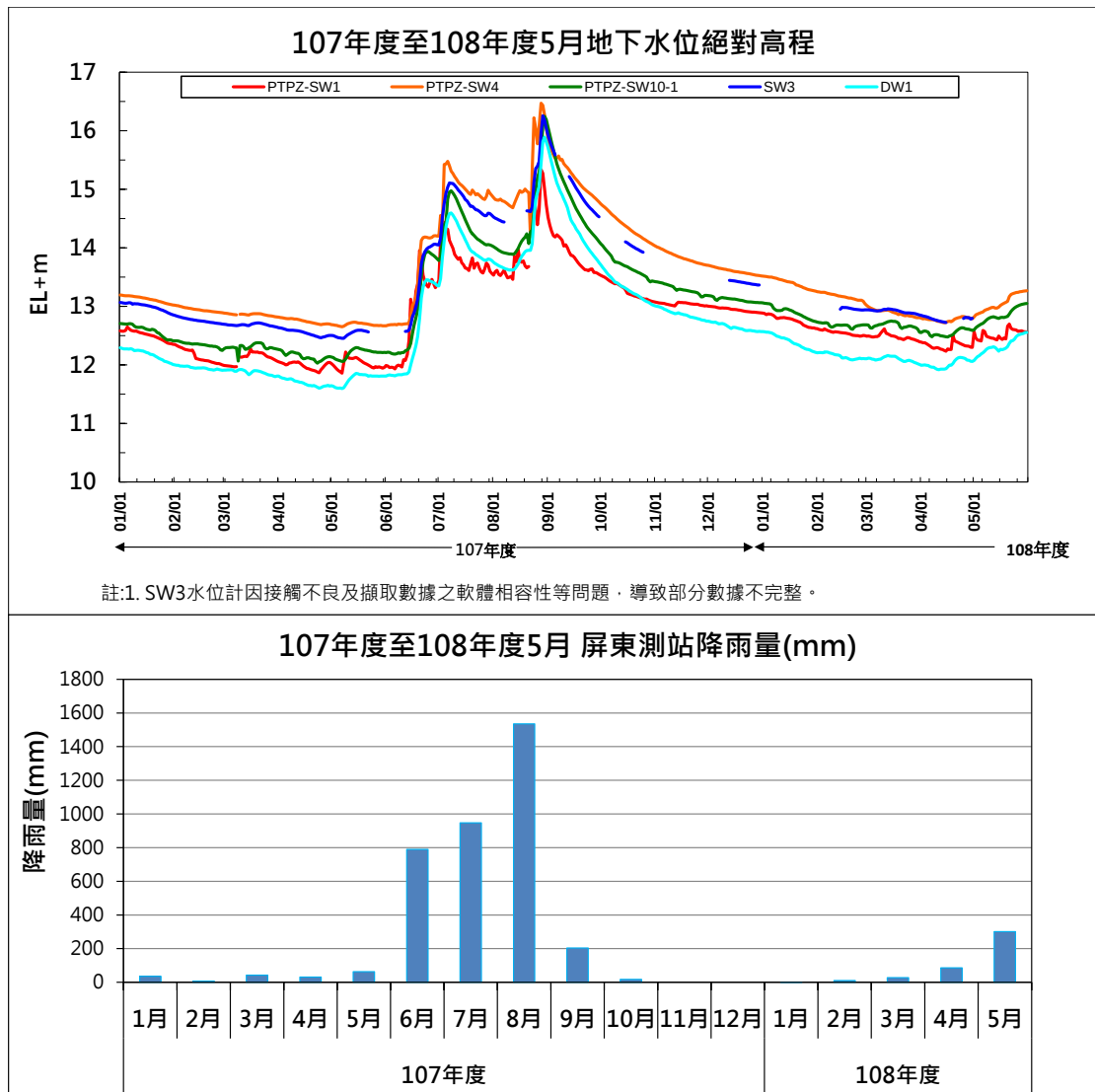


圖 2.4-2 107 年 1 月至 108 年 5 月地下水位及屏東測站降雨量趨勢圖