Department of Energy
Savannah River Operations Office
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June 24, 2025

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Federal Remediation Section
Division of Site Assessment, Remediation and Revitalization
Bureau of Land and Waste Management
South Carolina Department of Environmental Services
2600 Bull Street
Columbia, South Carolina 29201

Mr. Jon Richards
Savannah River Site Remedial Project Manager
Superfund and Emergency Management Division
U. S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW
Atlanta, Georgia 30303

Dear Ms. Fulmer and Mr. Richards:

SUBJECT: K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G) (KBRP) and P-Area Burning/Rubble Pit (131-P) (PBRP) Operable Units Combined Groundwater Monitoring Report (Sampling Summary) SEMS Numbers: 40 and 59

Reference: *Submittal of the Proposal to Standardize Sampling and Reporting Requirements of Groundwater Data for P, L, and K Area Burning/Rubble Pit Operable Units, CERCLIS Numbers 59, 56, 40* (ACP-08-133, dated January 15, 2008)

In accordance with the terms of the Federal Facility Agreement (FFA), the U. S. Department of Energy (DOE) is submitting the combined groundwater monitoring report (sampling summary) for your review. Per the referenced letter, combined sampling summaries are submitted annually via letter, with detailed groundwater reports submitted every five (5) years. The combined sampling summary reporting began in June 2008 and the first detailed groundwater report was submitted in June 2012. The last detailed groundwater report was submitted in June 2022. This letter is transmitting the annual sampling summary, *K-Area and P-Area Burning/Rubble Pits Annual Groundwater Data Summary Report*.

The combined groundwater monitoring report (sampling summary) formerly included the L-Area Burning/Rubble Pit and Rubble Pile (131-L, 131-3L, and 131-2L) (LBRP) Operable Unit (OU). In October 2017, the South Carolina Department of Environmental Services (SCDES) and the U. S. Environmental Protection Agency (EPA) agreed to discontinue groundwater monitoring and reporting for the LBRP OU. Therefore, LBRP OU is not included in this report.

Please review the information and provide your response within one hundred twenty (120) days of receipt. The effort and time that the SCDES and the EPA have given on the subject operable units are greatly appreciated.

K-AREA AND P-AREA BURNING/RUBBLE PITS ANNUAL GROUNDWATER DATA SUMMARY REPORT

K-Area Burning/Rubble Pit (KBRP) Operable Unit (OU)

Sampling optimizations that were developed and approved by the U. S. Environmental Protection Agency (EPA) and the South Carolina Department of Environmental Services (SCDES) as presented in the last detailed combined groundwater monitoring report, *K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G) (KBRP) and P-Area Burning/Rubble Pit (131-P) (PBRP) Operable Units Detailed Combined Groundwater Monitoring Report (U)* (SRNS-RP-2022-00253, Revision 0, June 2022), continued at the KBRP OU in 2024. The current monitoring well network is shown on Figure 1 and listed in Table 1.

Water elevation measurements were collected from all eleven of the currently monitored wells during the fourth quarter 2024 sampling event (Table 2). Within the Upper Three Runs Aquifer Unit (UTRAU), water table elevations remained relatively stable in 2024 decreasing from 2023 values by an average of 0.45 feet (ft) (0.14 meters [m]) in the upper portion (AA) of the Upper Aquifer Zone (UAZ) and increasing by an average of 0.37 ft (0.11 m) in the lower portion or transmissive zone (TZ) of the UAZ. All wells yielded adequate sampling volumes. The four wells screened in the lower aquifer zone (LAZ) of the UTRAU are currently suspended, and no water elevations were collected. In the AA of the UAZ, groundwater flow is towards the west. In the TZ of the UAZ, groundwater flow is towards the southwest. All groundwater elevations and flow directions are shown in Figure 2.

Concentrations in all wells were below the respective maximum contaminant levels (MCLs) in 2024 as shown in Table 2. Tetrachloroethylene (PCE) concentrations in well KRP 9 decreased below the MCL of 5 micrograms per liter (µg/L) after an increase above the MCL in 2023. Trichloroethylene (TCE) concentrations also decreased in 2024 and remained below the MCL of 5 µg/L in well KRP 9. KRP 9 is the only well that has exceeded an MCL since 2008. Figures 3 and 4 display the time-series plots for PCE and TCE concentrations, respectively, at plume well KRP 9.

As indicated by the 2024 sampling event results, all contaminant concentrations have decreased below their respective MCLs and the Groundwater Mixing Zone with Monitored Natural Attenuation remedy is functioning as intended. However, continued groundwater monitoring will be necessary to determine if the concentrations in well KRP 9 remain below the MCLs.

Table 1. KBRP OU Sampling Schedule and Trigger Levels

Station	Station Type	Aquifer Zone	Data Collected	Sampling Frequency	Sampling Quarter	PCE Trigger Level (µg/L)	TCE Trigger Level (µg/L)
KRP 4	Plume Definition	AA UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	43[a]	61[a]
KRP 5	Plume Definition	AA UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	43[a]	61[a]
KRP 6	Plume Definition	AA UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	43[a]	61[a]
KRP 7	Boundary Compliance	AA UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	5[b]	5[b]
KRP 8	Plume Definition	AA UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	43[a]	61[a]
KRP 9	Plume Definition	AA UAZ UTRAU	Analytical, Field and Water Elevation	Semiannual	2Q and 4Q	43[a]	61[a]
KRP 10C	Intermediate	LAZ UTRAU	Suspended	Suspended	NA	5[b]	5[b]
KRP 10D	Intermediate	TZ UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	5[b]	5[b]
KRP 11C	Intermediate	LAZ UTRAU	Suspended	Suspended	NA	5[b]	5[b]
KRP 11D	Intermediate	TZ UAZ UTRAU	Analytical, Field and Water Elevation	Annual	4Q	5[b]	5[b]
KRP 12C	Boundary Compliance	LAZ UTRAU	Suspended	Suspended	NA	5[b]	5[b]
KRP 12D	Boundary Compliance	TZ UAZ UTRAU	Water Elevation Only	Annual	4Q	5[b]	5[b]
KRP 13D	Boundary Compliance	TZ UAZ UTRAU	Water Elevation Only	Annual	4Q	5[b]	5[b]
KRP 15C	Boundary Compliance	LAZ UTRAU	Suspended	Suspended	NA	5[b]	5[b]
KRP 15D	Boundary Compliance	TZ UTRAU	Water Elevation Only	Annual	4Q	5[b]	5[b]

2Q = Second Quarter of Calendar Year
4Q = Fourth Quarter of Calendar Year
AA = Upper portion of the Upper Aquifer Zone
LAZ = Lower Aquifer Zone
NA = Not Applicable
UAZ = Upper Aquifer Zone
UTRAU = Upper Three Runs Aquifer Unit
TZ = Transmissive Zone of the Upper Aquifer Zone
[a] = MZCL (mixing zone concentration)
[b] = MCL

Table 2. Second and Fourth Quarters 2024 KBRP OU Monitoring Well Data

2024 KBRP OU Monitoring Data			Field Data													KBRP Constituents of Concern								
																Analytical Data								
			SAMPLE COLLECTION DATE	DEPTH TO WATER	SAMPLING EVENT WATER ELEVATION	SYNCHRONOUS MEASUREMENT DATE	SYNCHRONOUS WATER ELEVATION	FLOW RATE	AIR TEMPERATURE	WATER TEMPERATURE	PH	SPECIFIC CONDUCTANCE	TURBIDITY	PHENOLPHTHALEIN ALKALINITY (AS CACO3)	TOTAL ALKALINITY (AS CACO3)	FIELD CONDITIONS	SAMPLE TYPE	Constituent	1,1-DICHLOROETHYLENE	CHLOROETHENE (VINYL CHLORIDE)	CIS-1,2-DICHLOROETHYLENE	TETRACHLOROETHYLENE (PCE)	TRANS-1,2-DICHLOROETHYLENE	TRICHLOROETHYLENE (TCE)
			day-month-year	ft	ft	day-month-year	ft	gal/min	degC	degC	pH	uS/cm	NTU	mg/L	mg/L			Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Station	Well Use	Aquifer Zone											15					MCL (MZCL)	7	2	70	5 (43)	100	5 (61)
KRP 4	Plume Definition Well	AA_UAZ_UTRAU	06-Nov-2024	48.31	214.53	NS	NS	1	23	20.6	5.7	57	4.1	0	5	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	[0.502]	<EQL (1)	<EQL (1)
KRP 5	Plume Definition Well	AA_UAZ_UTRAU	06-Nov-2024	57.93	210.17	NS	NS	0.4	21	20.5	6.2	214	1.7	0	93	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1.2)	<EQL (1)	<EQL (1)
KRP 6	Plume Definition Well	AA_UAZ_UTRAU	06-Nov-2024	56.27	214.03	NS	NS	NS	22	20.3	5.6	81	5.5	0	0	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1.2)	<EQL (1)	<EQL (1)
KRP 8	Plume Definition Well	AA_UAZ_UTRAU	06-Nov-2024	54.25	213.32	NS	NS	0.1	21	19.5	5.5	29	2	0	0	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	1.62	<EQL (1)	[0.405]
KRP 9	Plume Definition Well	AA_UAZ_UTRAU	02-May-2024	53.46	214.91	NS	NS	0.1	22	18.7	6	131	1	0	40	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	4.41	<EQL (1)	2.32
			06-Nov-2024	54.21	214.16	NS	NS	0.1	24	19.3	5.6	114	14.2	0	41	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	2.99	<EQL (1)	1.48
KRP 7	Boundary Compliance	AA_UAZ_UTRAU	06-Nov-2024	59.77	210.79	NS	NS	0.2	22	22	6	29	4.8	0	3.5	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1.2)	<EQL (1)	<EQL (1)
			06-Nov-2024	59.77	210.79	NS	NS	0.2	22	22	6	29	4.8	0	3.5	No Comments	FD		<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1.2)	<EQL (1)	<EQL (1)
KRP 10C	Intermediate	LAZ_UTRAU	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS
KRP 10D	Intermediate	TZ_UAZ_UTRAU	06-Nov-2024	57.21	211.19	NS	NS	0.5	20	20.7	5.7	23	2.5	0	5	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1.2)	<EQL (1)	<EQL (1)
KRP 11C	Intermediate	LAZ_UTRAU	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS
KRP 11D	Intermediate	TZ_UAZ_UTRAU	06-Nov-2024	59.21	211.19	NS	NS	0.5	20	21.3	6.1	19	2.7	0	5	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1.2)	<EQL (1)	<EQL (1)
KRP 12C	Boundary Compliance	LAZ_UTRAU	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS
KRP 12D	Boundary Compliance	TZ_UAZ_UTRAU	07-Nov-2024	59.34	NS	07-Nov-2024	210.46	NS	NS	NS	NS	NS	NS	NS	NS	No Comments			NS	NS	NS	NS	NS	NS
KRP 13D	Boundary Compliance	TZ_UAZ_UTRAU	07-Nov-2024	57.98	NS	07-Nov-2024	210.92	NS	NS	NS	NS	NS	NS	NS	NS	No Comments			NS	NS	NS	NS	NS	NS
KRP 15C	Boundary Compliance	LAZ_UTRAU	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS
KRP 15D	Boundary Compliance	TZ_UAZ_UTRAU	07-Nov-2024	59.42	NS	07-Nov-2024	210.81	NS	NS	NS	NS	NS	NS	NS	NS	No Comments			NS	NS	NS	NS	NS	NS

Explanation

[##]	EPA Functional Guideline Code of *J* was applied to the result, indicating an estimated quantity.
<EQL(##)	Constituent was below detection. The sample-specific Estimated Quantitation Limit is in parentheses.
	Result exceeds applicable limit.
REJ	Result Rejected.
	Result is less than the applicable limit and without EPA Functional Guidline qualifiers.
NS	Requested to be sampled but was not. See comments as to why not.
Blue Text	Not a required sample analysis.
REG	Regular Sample
FD	Field Duplicate

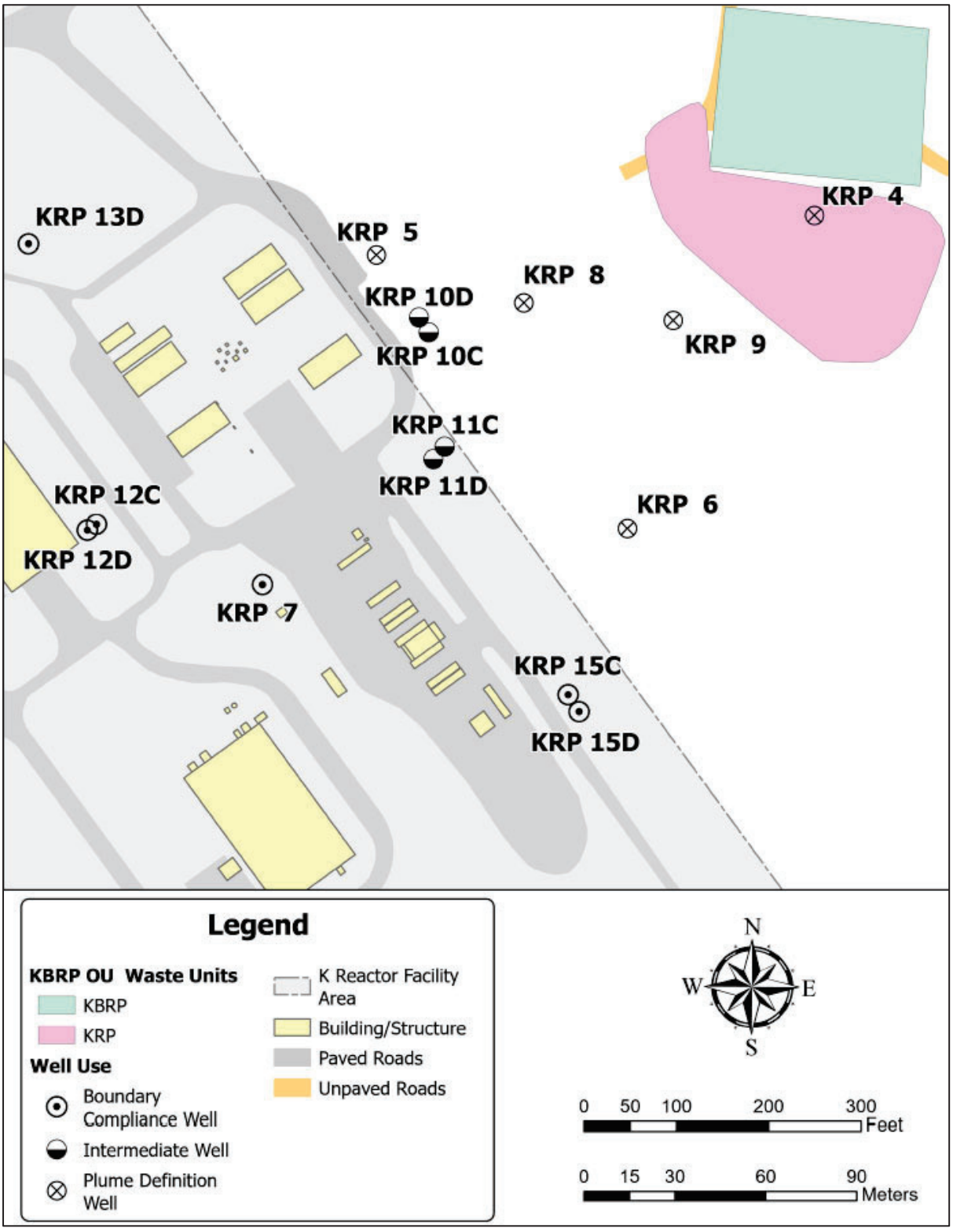

Figure 1. KBRP OU Monitoring Network

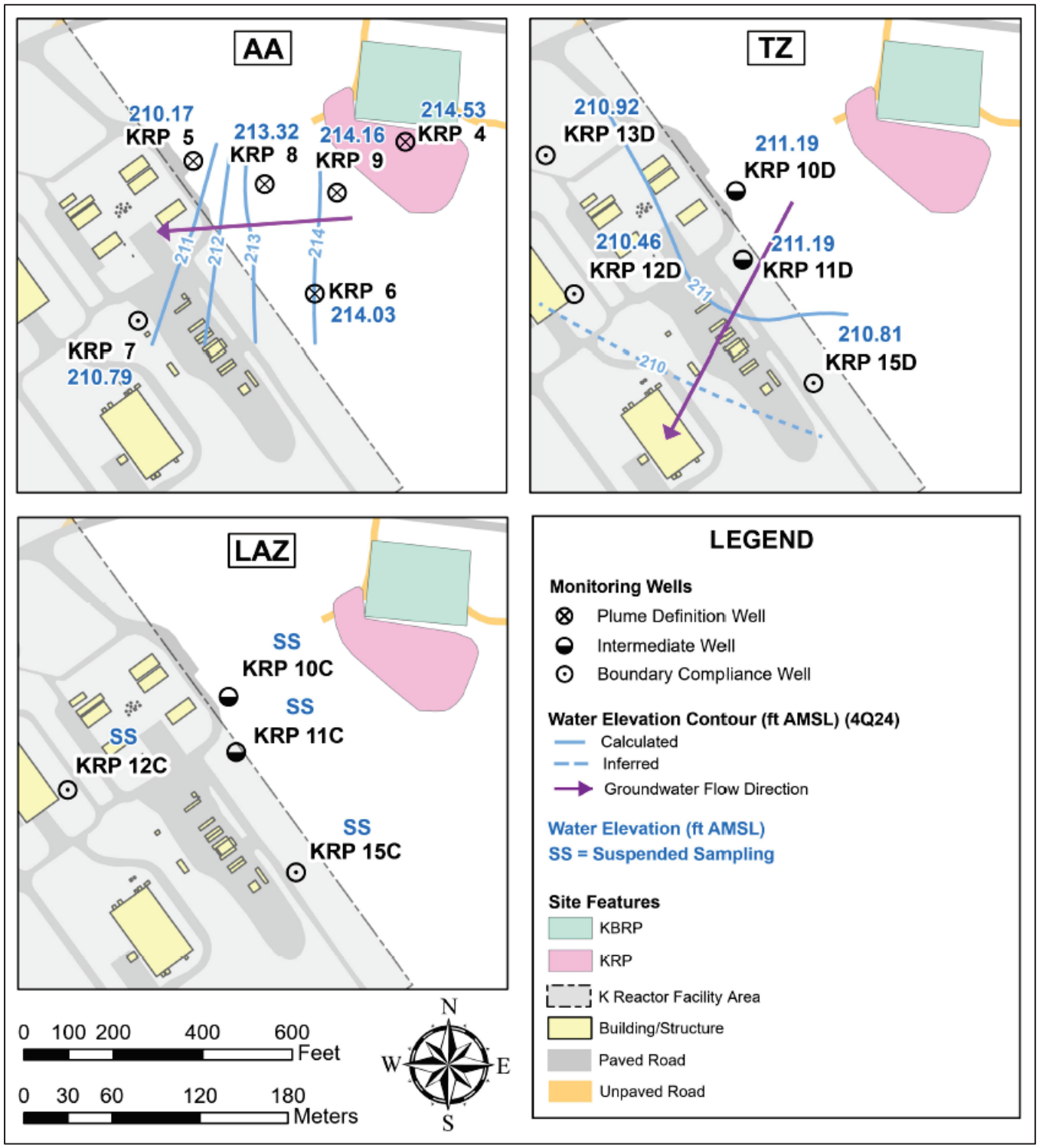

Figure 2. 2024 KBRP OU Potentiometric Surfaces

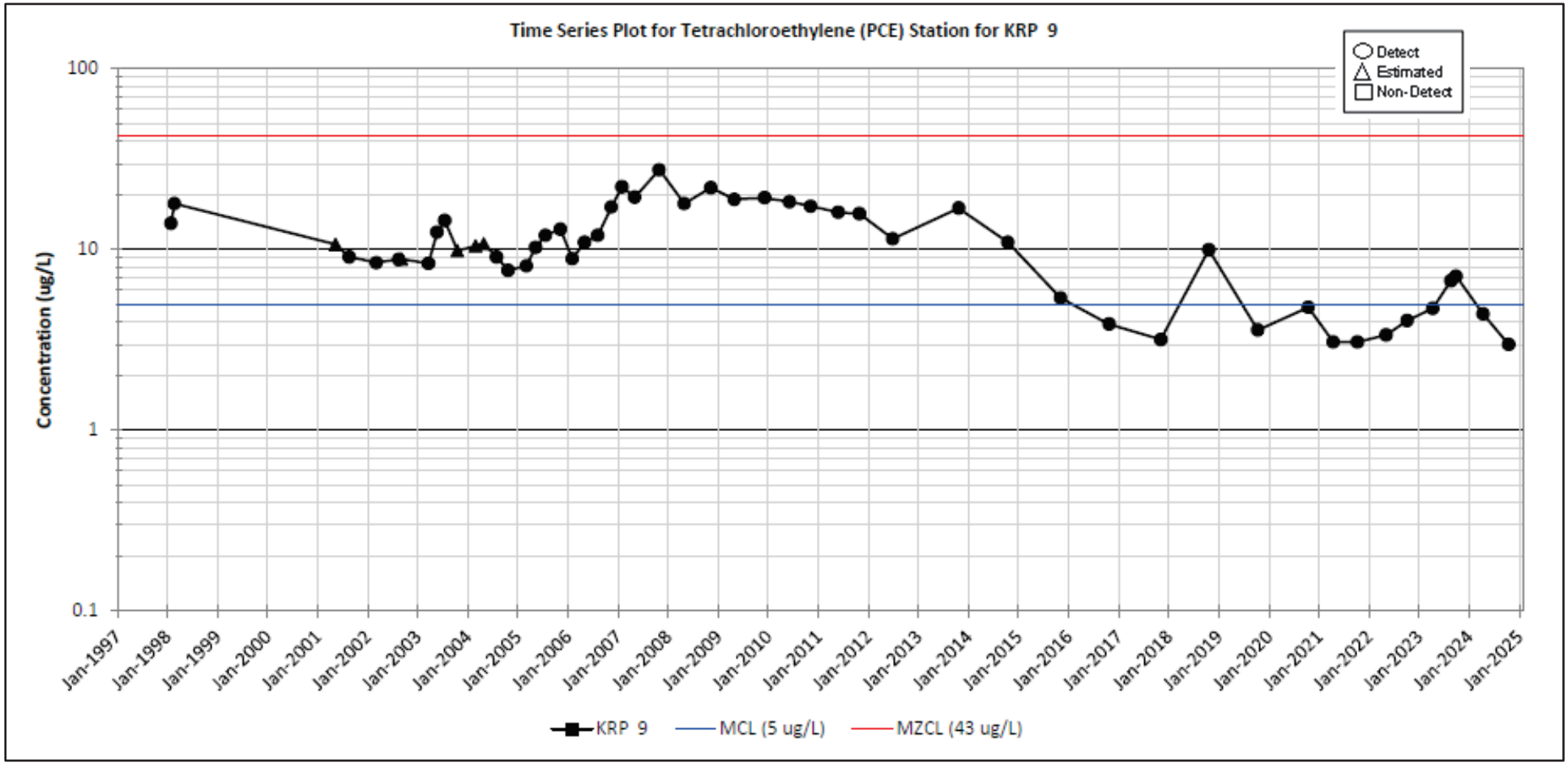

Figure 3. Time-Series Plot for PCE at KRP 9

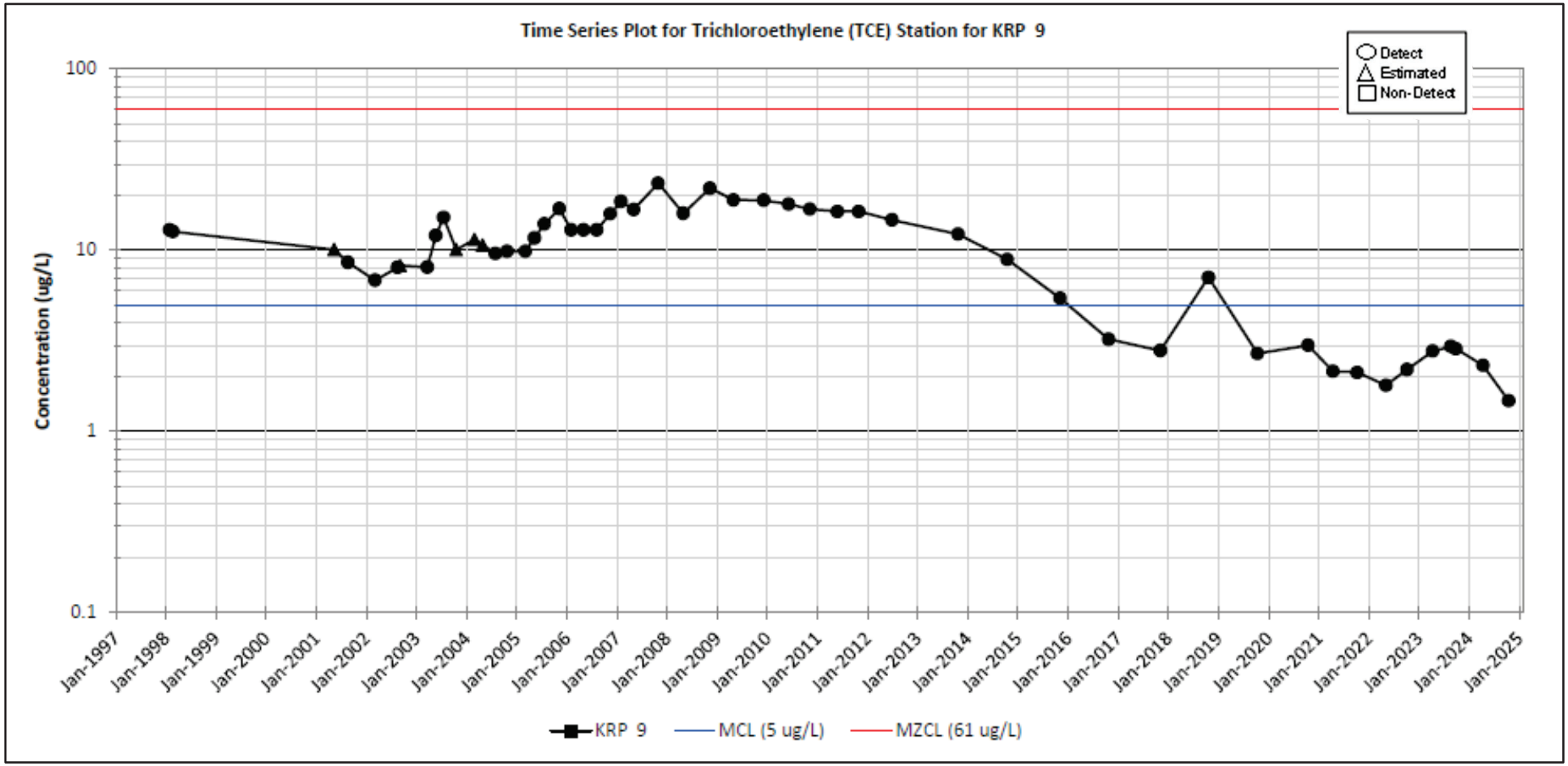

Figure 4. Time-Series Plot for TCE at KRP 9

P-Area Burning/Rubble Pit (PBRP) OU

On February 11, 2020, the EPA documented that the remedial action is complete (monitoring systems are installed and operational) for the selected Monitored Natural Attenuation remedy at the PBRP OU and noted the progress of the remedy towards meeting the remedial goals (i.e., cleanup levels) as documented in the *K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G) (KBRP), L-Area Burning/Rubble Pit and Rubble Pile (131-L, 131-3L, and 131-2L) (LBRP), and P-Area Burning/Rubble Pit (131-P) (PBRP) Operable Units (OUs) Detailed Combined Groundwater Monitoring Report (U)* (SRNS-RP-2017-00356, Revision 0, June 2017) (Letter, H. G. Adams (EPA) to B. Hennessey (DOE), dated February 11, 2020 [SRNS-OS-2020-00105]).

Sampling optimizations that were developed and approved by EPA and SCDES as presented in the most recent *K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G) (KBRP) and P-Area Burning/Rubble Pit (131-P) (PBRP) Operable Units Detailed Combined Groundwater Monitoring Report (U)* (SRNS-RP-2022-00253, Revision 0, June 2022) continued at PBRP in 2025. Beginning in 2024, sampling of all wells and surface water stations was moved to the first quarter as outlined in the *2022 K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G) (KBRP) and P Area Burning/Rubble Pit (131-P) (PBRP) Operable Units Combined Groundwater Monitoring Report (Sampling Summary)* (RDDD-23-017, dated June 19, 2023). Table 3 and Figure 5 portray the currently approved PBRP monitoring wells and the additional P Area Groundwater (PAGW) supplemental monitoring wells and surface water stations. Additionally, in May 2024, four shallow monitoring wells (PSC-007-D1, PSC-007-D2, PSC-008-D1, and PSC-008-D2) were installed on the PBRP OU-side of Steel Creek to observe any potential contaminant migration from the unit. The wells are in the vicinity of surface water station SC-03, along the bank of Steel Creek as shown on Figure 5. These four wells are proposed to be added to the monitoring network as listed in Table 3.

The synchronous water level event for the PBRP OU occurred in January 2025. Synchronous water elevations are shown in Table 4 and were used to generate the potentiometric surface shown in Figure 6. Water table elevations were stable and only increased from the previous year by an average of 0.03 ft (0.01 m). Groundwater flow beneath the PBRP OU is to the southwest.

The PBRP OU underwent routine annual monitoring during the first quarter of 2025. Due to issues exceeding temperature requirements during shipping and receiving, the unit was resampled two additional times before the acceptable analytical criteria was met. SRS requested that the lab not analyze the samples that resulted in excessive temperatures from the first two campaigns. The results from the final sampling event are shown in Table 4.

All results for the three permitted wells (PRP 5, PRP 6, and PRP 7) were less than the applicable MCLs or regional screening levels (RSLs) except for 1,4-dioxane in wells PRP 6 and PRP 7 (Table 4). Figure 7 displays the contaminant distribution of the 1,4-dioxane data. 1,1-dichloroethylene (1,1-DCE) and TCE concentrations in PRP 6 have decreased below the respective MCLs after an increase in concentrations in 2020. Time-series plots are shown in Figures 8 through 11.

Vapor phase monitoring of the BaroBall™ wells was discontinued in 2006, as concentrations dropped to below the remedial goal (i.e., cleanup level) of 10 parts per million by volume. Although these wells are no longer being used for vapor monitoring, the BaroBall™ wells were left in place to continue operating until groundwater objectives are met. The four BaroBall™ wells are shown on Figures 5 through 7 for reference.

The four recently installed shallow monitoring wells (PSC-007-D1, PSC-007-D2, PSC-008-D1, and PSC-008-D2) were also sampled as part of the PBRP OU sampling event. These wells were installed to observe any potential contaminant migration from the PBRP unit prior to entering Steel Creek. All sampling results were non-detect as shown in Table 4.

The three PAGW surface water stations (SC-02, SC-03 and SC-04) were sampled during the first quarter of 2025 as part of the PAGW sampling event. The sampling results are presented in Table 4 and summarized below.

- 1,1-DCE was not detected in any of the three surface water stations.
- 1,4-dioxane concentrations were non-detect in SC-02 and SC-04. This was the first sampling event that 1,4-dioxane was detected in surface water station SC-03 since sampling began in 2023. It was detected below the RSL (0.46 µg/L) as an estimated quantity of 0.446 µg/L. 1,4-dioxane was analyzed using methods EPA8270ESIM and EPA522. The estimated quantity was observed using the EPA8270ESIM method and was non-detect for the EPA522 method. A field duplicate was also collected at SC-03 and was non-detect for both methods.
- TCE was detected above the MCL of 5 µg/L at SC-03. This exceedance is not unexpected because TCE is the main volatile contaminant of concern within the PAGW OU and the driver for the elevated concentrations in Steel Creek. TCE concentrations at the PBRP OU are insignificant when compared to concentrations at the PAGW OU. TCE concentrations and plume maps at the PAGW OU are shown in the most recent *Groundwater Report for the P-Area Groundwater (PAGW) Operable Unit (OU) (U) - April 2023 through March 2024 Data* (SRNS-RP-2024-01436, Revision 0, February 2025).

Sampling results from 2025 confirm that the PBRP OU remedy is functioning as intended. SRS will continue to monitor groundwater and surface water annually for the constituents of concern identified in Table 4. In addition, SRS proposes to add the four shallow monitoring wells (PSC-007-D1, PSC-007-D2, PSC-008-D1, and PSC-008-D2) to the PBRP OU monitoring network. Monitoring will continue until it is agreed that the cleanup levels have been met and monitoring is no longer necessary.

Table 3. PBRP OU Well Network

Station	Station Type	Aquifer Zone	Operable Unit	Well Use	Easting (UTM NAD 27)	Northing (UTM NAD 27)
PGW014DU	Monitoring Well	AA UAZ UTRAU	PAGW	Synchronous Water Elevation	445264.8	3676551.7
PRP 1A	Monitoring Well	AA UAZ UTRAU	PAGW	Synchronous Water Elevation	445122.9	3676625.5
PRP 2	Monitoring Well	AA UAZ UTRAU	PAGW	Synchronous Water Elevation	445164.1	3676670.5
PRP 5	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445281.4	3676683.9
PRP 6	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445186.9	3676616.7
PRP 7	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445156.2	3676605.5
PSC002D1	Monitoring Well	AA UAZ UTRAU	PAGW	Synchronous Water Elevation	445157.9	3676510.7
PSC007D1*	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445108.0	3676483.1
PSC007D2*	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445106.7	3676481.9
PSC008D1*	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445081.8	3676463.5
PSC008D2*	Monitoring Well	AA UAZ UTRAU	PBRP	Analytical & Field	445080.5	3676463.4
SC-02	Surface Water Station	NA	PAGW	Analytical & Field	445190.9	3676552.3
SC-03	Surface Water Station	NA	PAGW	Analytical & Field	445100.3	3676454.7
SC-04	Surface Water Station	NA	PAGW	Analytical & Field	444728.5	3676234.9

AA = Upper portion of the Upper Aquifer Zone
NA = Not applicable
NAD 27 = North American Datum of 1927
UAZ = Upper Aquifer Zone
UTM = Universal Transverse Mercator
UTRAU = Upper Three Runs Aquifer Unit
* Installed in 2024, proposed to be added to the PBRP OU Monitoring Network

Table 4. First Quarter 2025 PBRP OU Groundwater Data

2025 PBRP OU Groundwater Monitoring Data			Field Data																Analytical Data		PBRP Constituents of Concern						
			day-month-yearSAMPLE COLLECTION DATE	DEPTH TO WATER	SAMPLING EVENT WATER ELEVATION	day-month-yearSYNCHRONOUS MEASUREMENT DATE	SYNCHRONOUS WATER ELEVATION	FLOW RATE	WATER TEMPERATURE	AIR TEMPERATURE	OXYGEN	OXIDATION/REDUCTION POTENTIAL	PH	SPECIFIC CONDUCTANCE	TURBIDITY	PHENOLPHTHALEIN ALKALINITY (AS CACO3)	TOTAL ALKALINITY (AS CACO3)	FIELD CONDITIONS	SAMPLE TYPE	Constituent	1,1,1-TRICHLOROETHANE	1,1-DICHLOROETHYLENE	1,4-DIOXANE	CHLOROETHENE (VINYL CHLORIDE)	CIS-1,2-DICHLOROETHYLENE	TETRACHLOROETHYLENE (PCE)	TRICHLOROETHYLENE (TCE)
Station	Well Use	Aquifer Zone		ft	ft		ft	gal/min	degC	degC	mg/L	mV	pH	uS/cm	NTU	mg/L	mg/L			GWPS	200	7	0.46	2	70	5	5
																				Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PRP_5	Background Well	UAZ_UTRAU	21-Apr-2025	30.85	256.91	07-Jan-2025	257.06	0.5	19	14	2.14	263	5.3	28.5	0.9	0	10	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (0.2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)
																		No Comments	REG				<EQL (0.2)				
PGW014DU	Plume Definition Well	UAZ_UTRAU	07-Jan-2025	35.18	NS	07-Jan-2025	242.61	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No Comments	NS		NS	NS	NS	NS	NS	NS	NS
PRP_1A	Plume Definition Well	UAZ_UTRAU	07-Jan-2025	37.04	NS	07-Jan-2025	247.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No Comments	NS		NS	NS	NS	NS	NS	NS	NS
PRP_2	Plume Definition Well	UAZ_UTRAU	07-Jan-2025	31.52	NS	07-Jan-2025	255.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No Comments	NS		NS	NS	NS	NS	NS	NS	NS
PRP_6	Plume Definition Well	AA_UAZ_UTRAU	21-Apr-2025	31.79	250.08	07-Jan-2025	250.47	0.5	19.5	14	2.19	282	5	51.5	0.9	0	9	No Comments	REG		<EQL (1)	3.33	2.75	<EQL (1)	[0.39]	[0.43]	1.97
																		No Comments	REG				3.51				
			21-Apr-2025	31.79	250.08	07-Jan-2025	250.47	0.5	19.5	14	2.19	282	5	51.5	0.9	0	9	No Comments	FD		<EQL (1)	3.58	3.42	<EQL (1)	[0.44]	[0.34]	1.93
																		No Comments	FD				3.76				
PRP_7	Plume Definition Well	UAZ_UTRAU	21-Apr-2025	41.23	240.76	07-Jan-2025	240.89	0.5	19.9	14	2.21	286	5.2	39.5	3.4	0	15	No Comments	REG		<EQL (1)	1.82	3.56	<EQL (1)	[0.81]	1.18	1.39
																		No Comments	REG				3.21				
PSC002D1	Plume Definition Well	UAZ_UTRAU	07-Jan-2025	3.31	NS	07-Jan-2025	235.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No Comments	NS		NS	NS	NS	NS	NS	NS	NS
PSC-007-D1	Plume Definition Well	UAZ_UTRAU	21-Apr-2025	4.37	231.93	07-Jan-2025	231.6	0.2	17.5	17	5.62	282	4.7	29	1.8	0	0	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (0.2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)
																		No Comments	REG				<EQL (0.2)				
PSC-007-D2	Plume Definition Well	UAZ_UTRAU	21-Apr-2025	4.31	231.99	07-Jan-2025	231.97	0.2	17.9	17	4.88	251	5.4	27	2.1	0	8	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (0.2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)
																		No Comments	REG				<EQL (0.2)				
PSC-008-D1	Plume Definition Well	UAZ_UTRAU	21-Apr-2025	3.82	231.58	07-Jan-2025	231.83	0.2	18.1	16	5.44	262	5.3	67	5.8	0	12	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (0.2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)
																		No Comments	REG				<EQL (0.2)				
PSC-008-D2	Plume Definition Well	UAZ_UTRAU	21-Apr-2025	3.77	231.63	07-Jan-2025	231.56	0.2	18.4	16	4.47	326	6	69	6.8	0	16	No Comments	REG		<EQL (1)	<EQL (1)	<EQL (0.2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)
																		No Comments	REG				<EQL (0.2)				
SC-02	Surface Water	TZ_UAZ_UTRAU	04-Feb-2025	NS	NS	NS	NS	0.057	10.8	12	NS	NS	8.6	51	1.8	0	68	No Comments	REG		NS	<EQL (1)	<EQL (0.2)	NS	NS	NS	<EQL (1)
																		No Comments	REG				<EQL (0.2)				
SC-03	Surface Water	TZ_UAZ_UTRAU	04-Feb-2025	NS	NS	NS	NS	0.073	13.5	13	NS	NS	7.3	37	10.8	0	23	No Comments	REG		NS	<EQL (1)	[0.0446]	NS	NS	NS	12.5
																		No Comments	REG				<EQL (0.2)				
			04-Feb-2025	NS	NS	NS	NS	0.073	13.5	13	NS	NS	7.3	37	10.8	0	23	No Comments	FD			<EQL (1)	<EQL (0.2)	NA	NA	NA	13.1
																		No Comments	FD				<EQL (0.2)				
SC-04	Surface Water	TZ_UAZ_UTRAU	04-Feb-2025	NS	NS	NS	NS	0.942	14.6	15	NS	NS	4.2	36	1.7	0	0	No Comments	REG		NS	<EQL (1)	<EQL (0.2)	NS	NS	NS	1.41
																		No Comments	REG				<EQL (0.2)				

Concentration

Explanation

[##]	EPA Functional Guideline Code of 'J' was applied to the result, indicating an estimated quantity.
<EQL(##)	Constituent was below detection. The sample-specific Estimated Quantitation Limit is in parentheses.
	Result exceeds applicable limit.
REJ	Result Rejected.
	Result is less than the applicable limit and without EPA Functional Guidline qualifiers.
NS	Requested to be sampled but was not. See comments as to why not.
Blue Text	Not a required sample analysis.
FD	Field Duplicate
REG	Regular Sample

* For 1,4 Dioxane, the first line for each well displays the samples that were analyzed by EPA8270ESIM. The second line was analyzed by the EPA522 method.

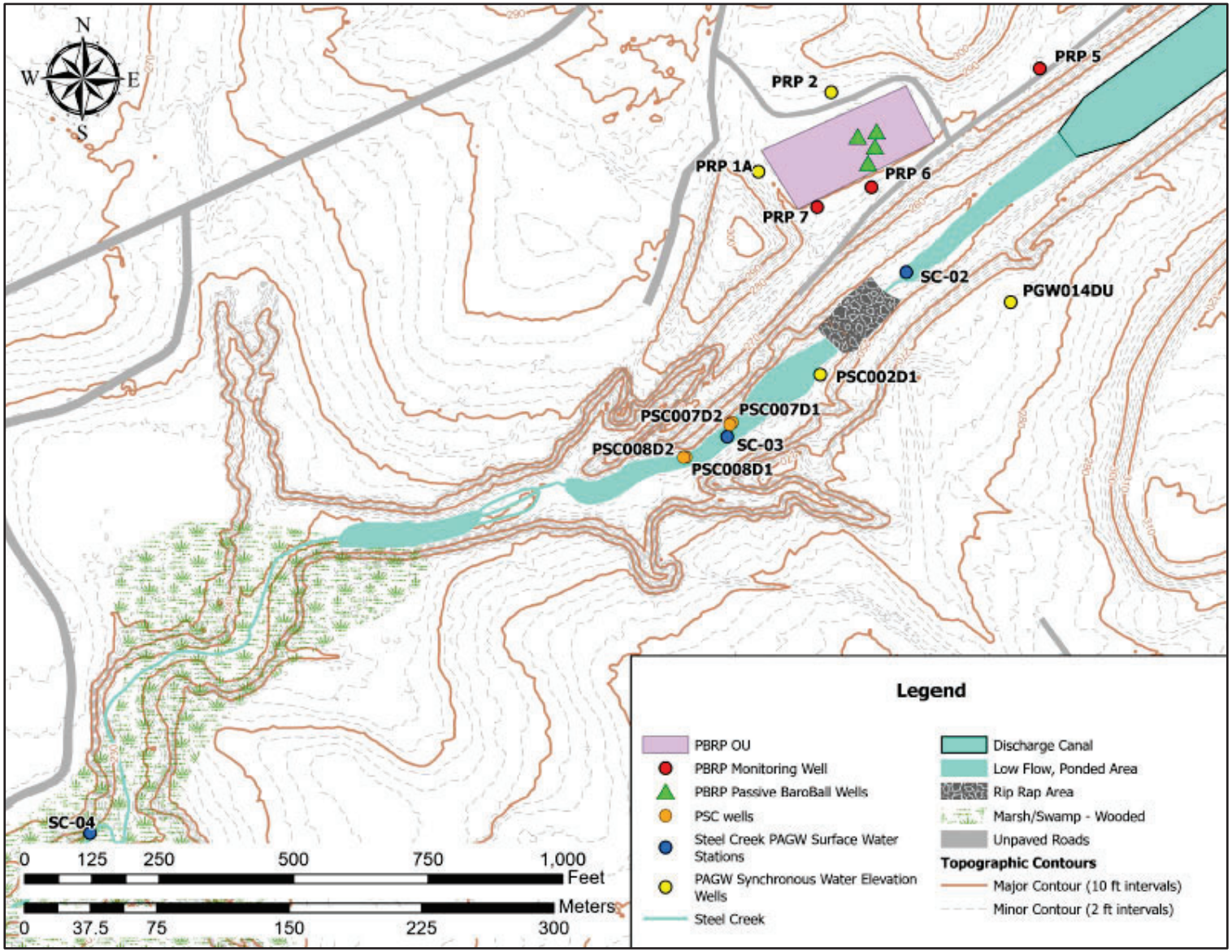

Figure 5. PBRP OU Monitoring Network

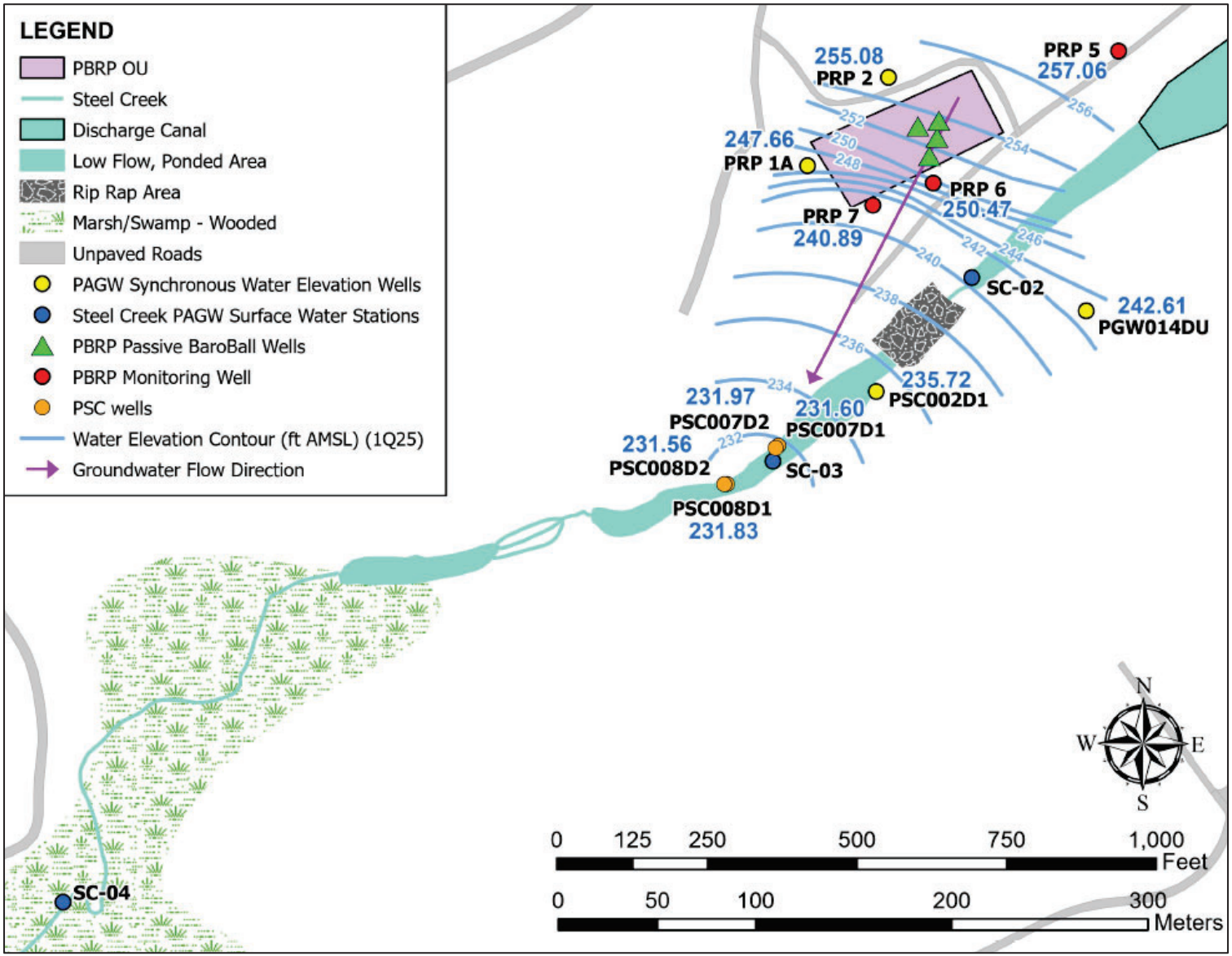

Figure 6. PBRP Synchronous Water Elevation Event (1Q25)

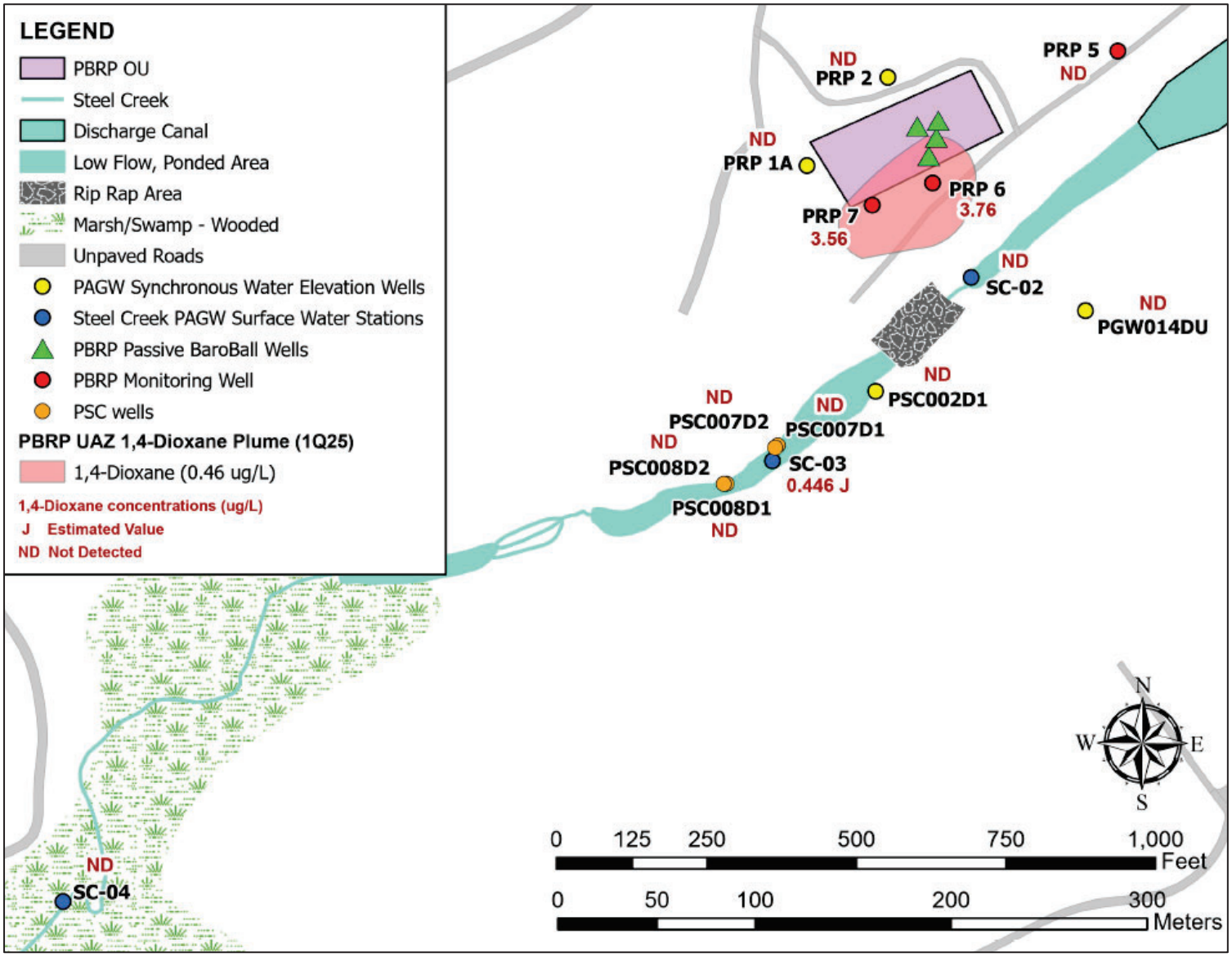

Figure 7. 1,4-Dioxane Contaminant Distribution

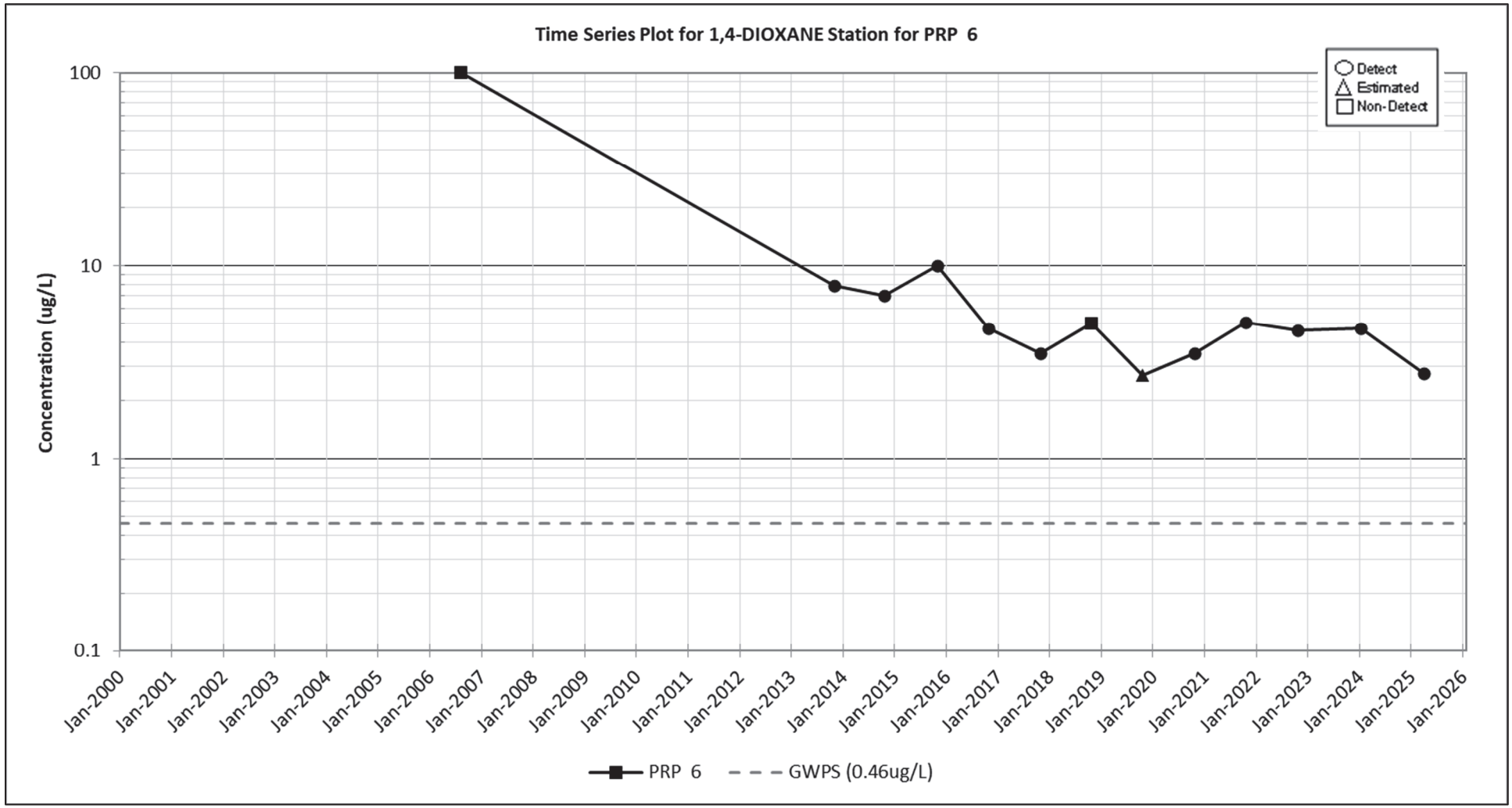

Figure 8. Time-Series Plot for 1,4-Dioxane at PRP 6

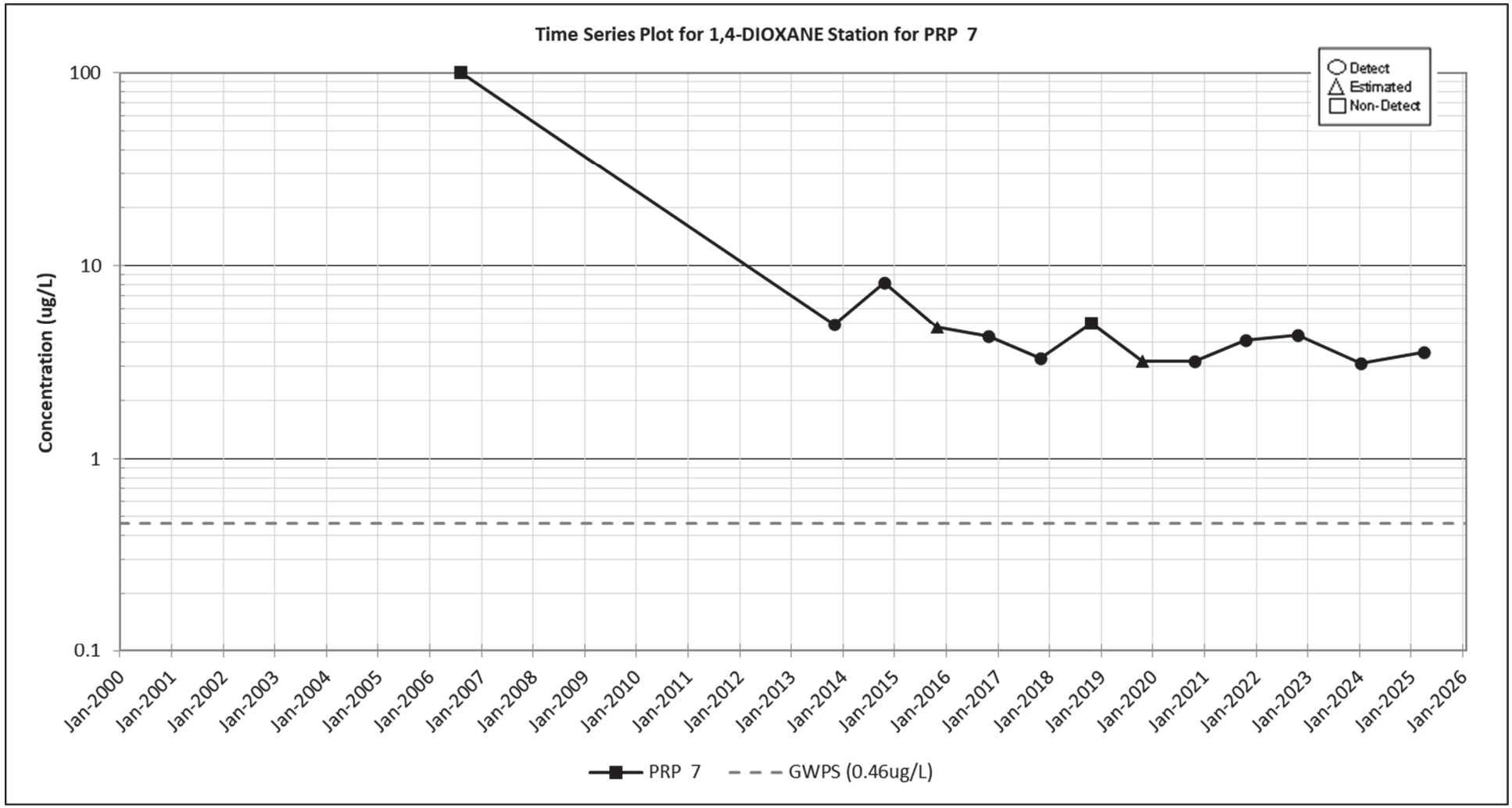

Figure 9. Time-Series Plot for 1,4-Dioxane at PRP 7

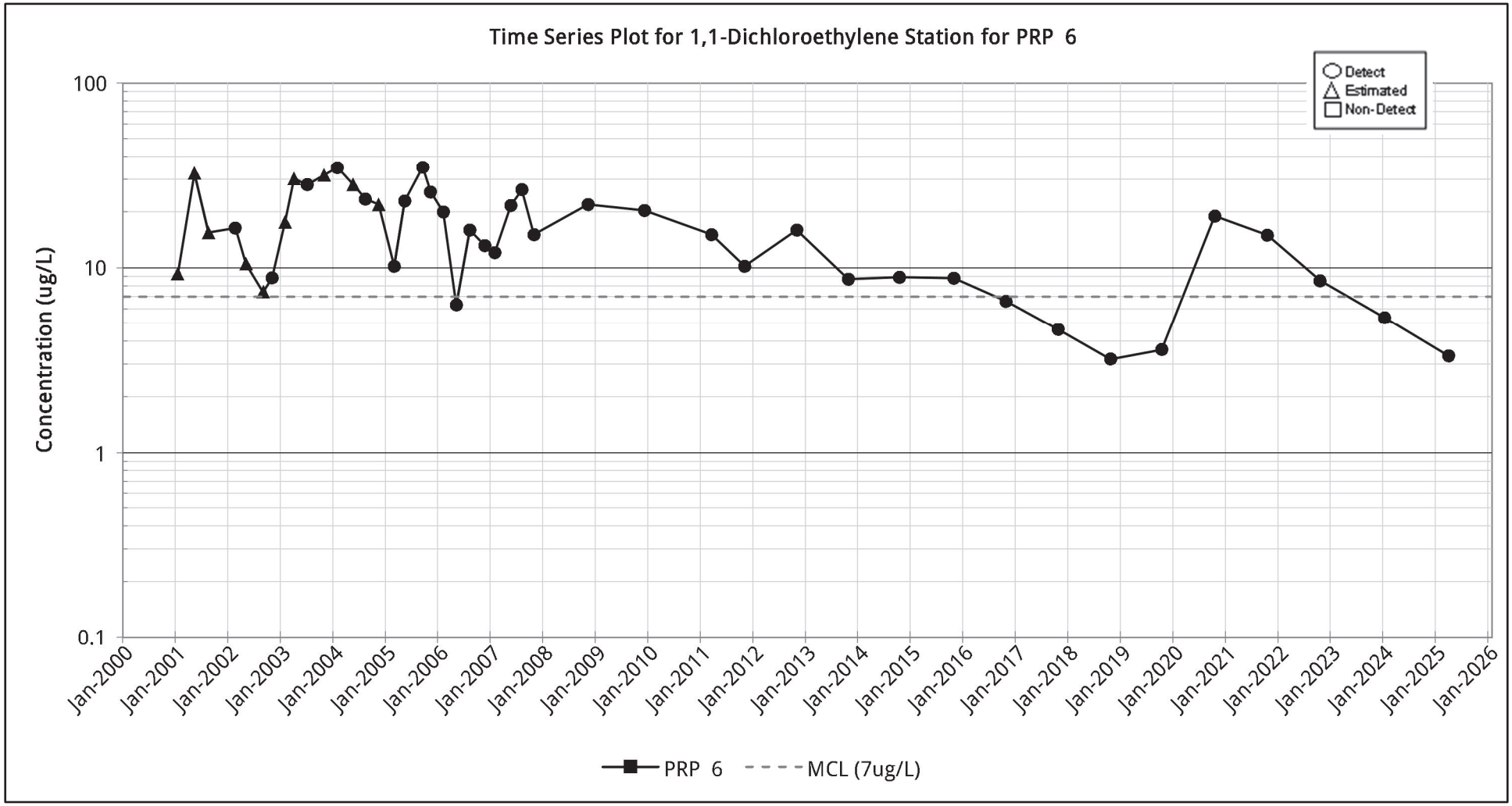

Figure 10. Time-Series Plot for 1,1-DCE at PRP 6

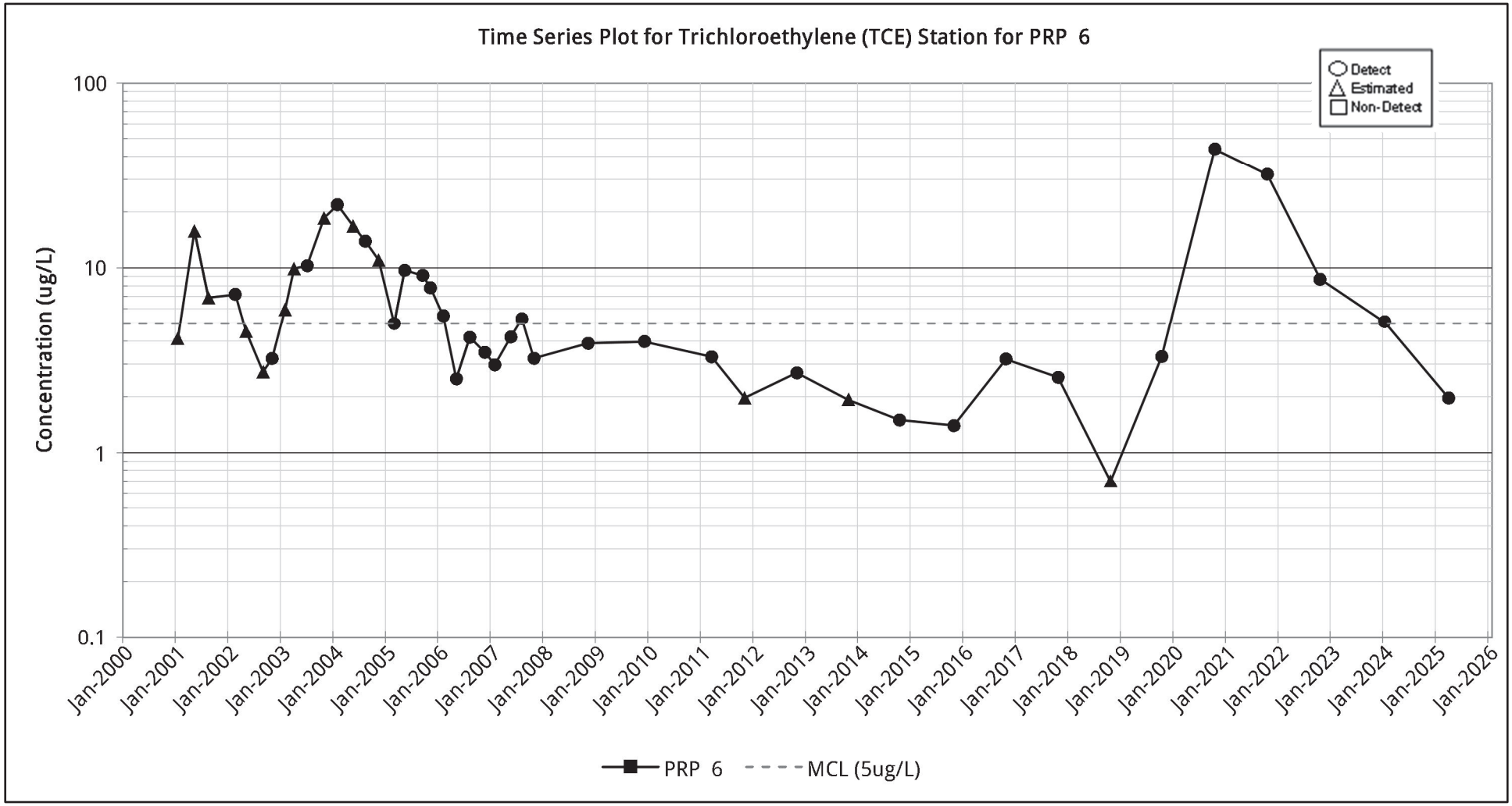

Figure 11. Time-Series Plot for TCE at PRP 6

Comments or questions from you or your staff may be directed to me at (803) 952-6211 or the DOE Program Manager, April Coffman, at (803) 508-0490.

Sincerely,

MATTHEW BAKER

Digitally signed by MATTHEW BAKER
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RDDD-25-145

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