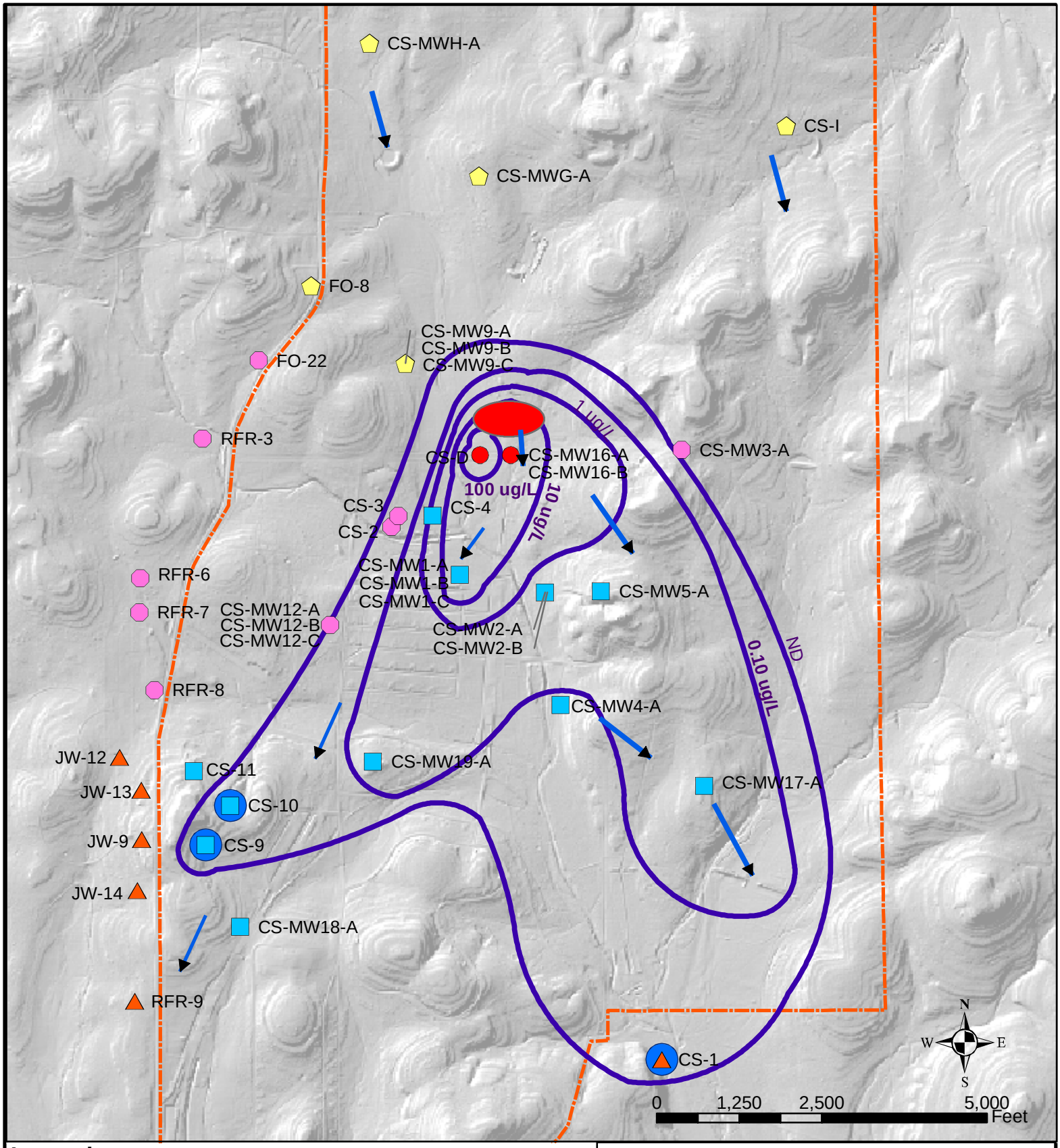
TABLE 3
CURRENT GROUNDWATER MONITORING PROGRAM
3-TIERED LONG TERM MONITORING OPTIMIZATION
CASE STUDY SITE

Well ID	Vertical Zone	Sampling Frequency	First Sampling Event	Most Recent Data	Plume Position
On Post Monitoring Wells					
CS-1	A	Quarterly	8/9/91	12/2/04	Sentry
CS-10	A	Quarterly	8/9/91	12/3/04	Downgradient
CS-11	A	Quarterly	8/9/91	12/3/04	Downgradient
CS-2	A	Quarterly	11/3/92	12/7/04	Cross gradient
CS-3	A	Quarterly	11/4/92	12/16/99	Cross gradient
CS-4	A	Quarterly	12/4/91	12/7/04	Downgradient
CS-9	A	Quarterly	8/9/91	12/3/04	Downgradient
CS-D	A	Quarterly	12/4/91	12/7/04	Source
CS-I	A	Quarterly	11/4/92	11/29/04	Up gradient
CS-MW12-C	C	Quarterly	12/16/02	12/7/04	Downgradient
CS-MW12-B	B	Quarterly	12/16/02	12/7/04	Downgradient
CS-MW12-A	A	Quarterly	12/16/02	12/7/04	Cross gradient
CS-MW16-B	B	Quarterly	9/16/03	12/9/04	Downgradient
CS-MW16-A	A	Quarterly	9/30/94	12/3/04	Source
CS-MW17-A	A	Quarterly	9/12/02	11/29/04	Downgradient
CS-MW18-A	A	Quarterly	9/12/02	12/7/04	Downgradient
CS-MW19-A	A	Quarterly	9/12/02	12/7/04	Downgradient
CS-MW1-C	C	Quarterly	3/25/03	11/30/04	Downgradient
CS-MW1-B	B	Quarterly	3/25/03	11/30/04	Downgradient
CS-MW1-A	A	Quarterly	9/8/99	11/30/04	Downgradient
CS-MW2-B	B	Quarterly	6/17/03	12/1/04	Downgradient
CS-MW2-A	A	Quarterly	9/9/99	12/1/04	Downgradient
CS-MW3-A	A	Quarterly	6/14/01	11/29/04	Cross gradient
CS-MW4-A	A	Quarterly	6/14/01	12/1/04	Downgradient
CS-MW5-A	A	Quarterly	6/14/01	12/3/04	Downgradient
CS-MW9-C	C	Quarterly	6/14/01	11/29/04	Downgradient
CS-MW9-B	B	Quarterly	6/14/01	11/29/04	Downgradient
CS-MW9-A	A	Quarterly	6/14/01	11/29/04	Up gradient
CS-MWG-A	A	Quarterly	11/3/92	11/29/04	Up gradient
CS-MWH-A	A	Quarterly	11/4/92	11/29/04	Up gradient
Off Post Monitoring					
FO-22	A	Annually	9/18/01	12/16/04	Cross gradient
FO-8	A	Annually	3/19/02	3/4/04	Up gradient
JW-12	A	Annually	9/18/01	3/4/04	Sentry
JW-13	A	Annually	9/19/01	6/10/04	Sentry
JW-14	A	Quarterly	9/18/01	12/14/04	Sentry
JW-9	A	Quarterly	9/18/01	12/16/04	Sentry
RFR-3	A	Quarterly	9/8/99	12/14/04	Cross gradient
RFR-6	A	Annually	9/19/01	12/15/04	Cross gradient
RFR-7	A	Annually	9/19/01	12/15/04	Cross gradient
RFR-8	A	Annually	9/8/99	6/9/04	Cross gradient
RFR-9	A	Annually	9/19/01	9/23/04	Sentry



Legend

Plume Location

- Downgradient well
- Sentry well
- Source well
- Upgradient well
- Cross gradient well
- Water Supply Well
- Approximate extent of VOC plume
- Base Boundary
- Source Area
- General groundwater flow direction

FIGURE 1

CASE STUDY BASEMAP

3-TIERED LONG TERM MONITORING OPTIMIZATION
CASE STUDY SITE

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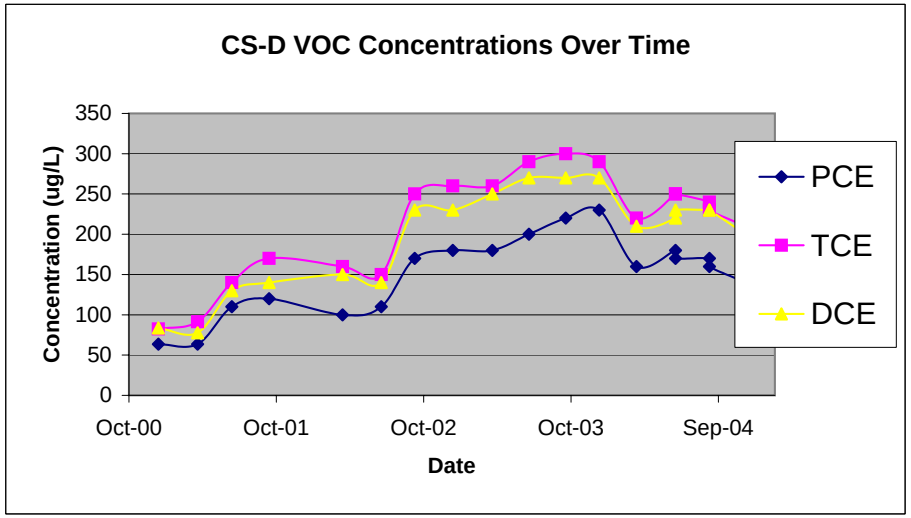
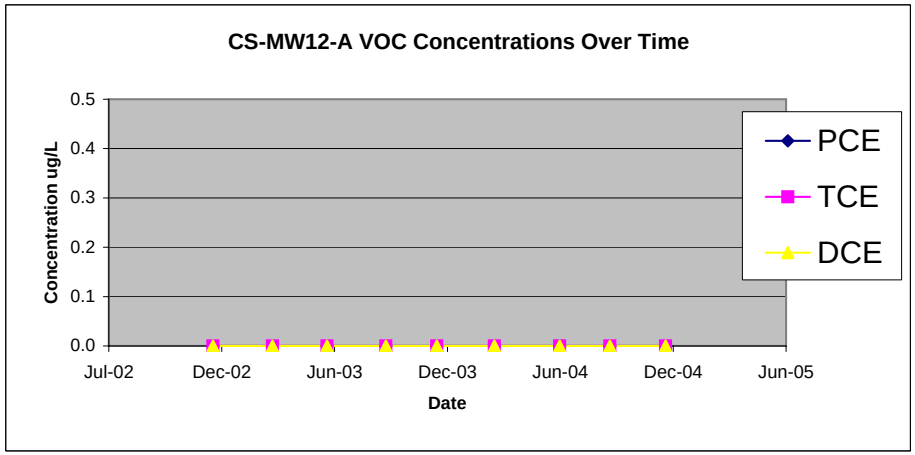
TABLE 4
QUALITATIVE EVALUATION OF GROUNDWATER MONITORING NETWORK
3-TIERED LONG TERM MONITORING OPTIMIZATION
CASE STUDY SITE

Well ID	Current Sampling Frequency	Qualitative Analysis			
		Remove	Retain	Monitoring Frequency Recommendation	Rationale
On Post Monitoring Wells					
CS-1	Quarterly		X	Semi-annual	On-post drinking water supply; no nearby upgradient wells for early warning
CS-10	Quarterly		X	Semi-annual	On-post drinking water supply; no nearby upgradient wells for early warning
CS-11	Quarterly		X	Annual	Serves as early warning of potential off-post migration
CS-2	Quarterly		X	Biennial	Cross-gradient well defines plume boundary over time
CS-3	Quarterly	X		Remove	Spatially redundant with CS-2, not recently sampled
CS-4	Quarterly	X		Remove	Spatially redundant with CS-2
CS-9	Quarterly		X	Semi-annual	On-post drinking water supply; no nearby upgradient wells for early warning
CS-D	Quarterly				
CS-I	Quarterly	X		Remove	MWG and MW9 provide sufficient upgradient data
CS-MW12-C	Quarterly		X	Biennial	Vertical sentry well, historically non-detect
CS-MW12-B	Quarterly		X	Biennial	Vertical sentry well, historically non-detect
CS-MW12-A	Quarterly				
CS-MW16-B	Quarterly		X	Semi-annual	Monitors vertical migration of contaminants beneath source; only 1.25 yrs of LTM
CS-MW16-A	Quarterly		X	Semi-annual	Monitors effectiveness of source area remediation
CS-MW17-A	Quarterly		X	Annual	Along inferred plume flowpath; good indicator of plume stability
CS-MW18-A	Quarterly		X	Annual	Serves as early warning of potential off-post migration
CS-MW19-A	Quarterly		X	Annual	Along inferred plume flowpath; good indicator of plume stability
CS-MW1-C	Quarterly		X	Biennial	Vertical sentry well, historically < PQL
CS-MW1-B	Quarterly		X	Biennial	Vertical sentry well, historically non-detect
CS-MW1-A	Quarterly				
CS-MW2-B	Quarterly		X	Biennial	Vertical sentry well, historically non-detect
CS-MW2-A	Quarterly		X	Biennial	Below MCLs for last 12 events
CS-MW3-A	Quarterly		X	Biennial	Cross-gradient well defines plume boundary over time
CS-MW4-A	Quarterly	X		Remove	COCs consistently < MCLs; not on plume flowpath
CS-MW5-A	Quarterly		X	Biennial	COCs consistently < MCLs; very little temporal variation
CS-MW9-C	Quarterly		X	Biennial	Vertical sentry well, historically non-detect
CS-MW9-B	Quarterly		X	Biennial	Vertical sentry well, historically non-detect or < PQL
CS-MW9-A	Quarterly		X	Biennial	Monitors upgradient groundwater quality
CS-MWG-A	Quarterly		X	Biennial	Monitors upgradient groundwater quality
CS-MWH-A	Quarterly				
Off Post Monitoring Wells					
FO-22	Annually	X		Remove	Hydraulically upgradient to cross-gradient; historically non-detect
FO-8	Annually	X		Remove	MWG and MW9 provide sufficient upgradient data
JW-12	Annually		X	Annual	Downgradient property boundary sentry well
JW-13	Annually		X	Annual	Downgradient property boundary sentry well
JW-14	Quarterly		X	Annual	Downgradient property boundary sentry well
JW-9	Quarterly		X	Annual	Downgradient property boundary sentry well
RFR-3	Quarterly	X		Remove	Resume LTM if CS-2 indicates signficant westerly migration; otherwise of no value
RFR-6	Annually		X	Biennial	Cross-gradient property boundary sentry well
RFR-7	Annually		X	Biennial	Cross-gradient property boundary sentry well
RFR-8	Annually		X	Biennial	Cross-gradient property boundary sentry well
RFR-9	Annually		X	Biennial	Downgradient property boundary sentry well; other wells provide early warning

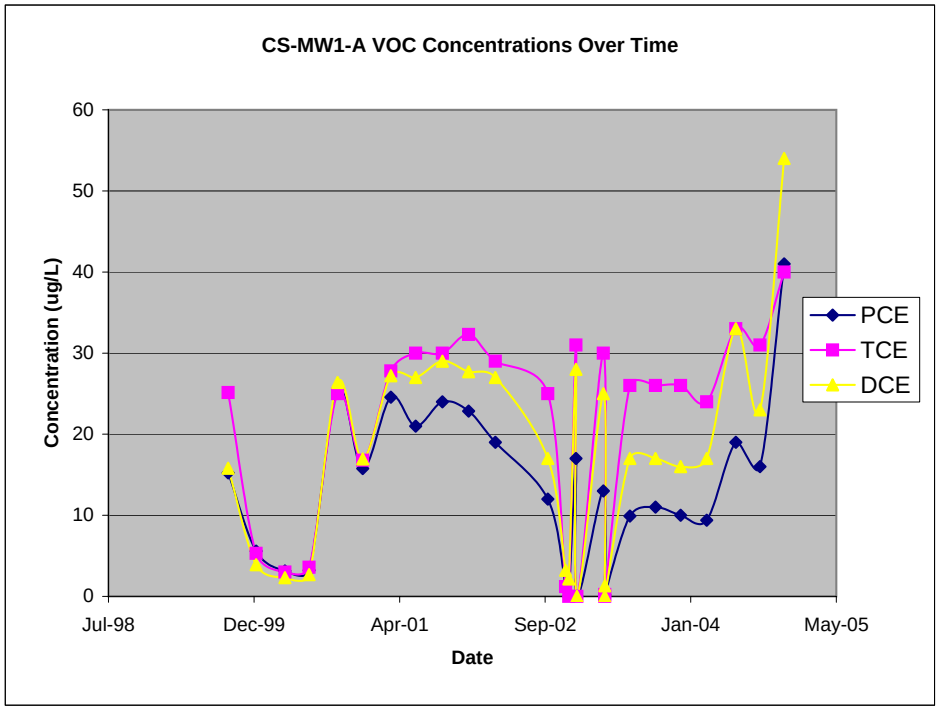
WellID	Date	PCE	TCE	DCE
CS-D	12/13/00	63.6	82.50	83.72
CS-D	3/20/01	63.5	91.40	77.73
CS-D	6/13/01	110.0	140.00	130.00
CS-D	9/13/01	120.0	170.00	140.00
CS-D	3/14/02	100.0	160.00	150.00
CS-D	6/18/02	110.0	150.00	140.00
CS-D	9/9/02	170.0	250.00	230.00
CS-D	12/12/02	180.0	260.00	230.00
CS-D	3/20/03	180.0	260.00	250.00
CS-D	6/19/03	200.0	290.00	270.00
CS-D	9/18/03	220.0	300.00	270.00
CS-D	12/10/03	230.0	290.00	270.00
CS-D	3/11/04	160.0	220.00	210.00
CS-D	6/16/04	180.0	250.00	220.00
CS-D	6/16/04	170.0	250.00	230.00
CS-D	9/8/04	170.0	240.00	230.00
CS-D	9/8/04	160.0	230.00	230.00
CS-D	12/7/04	140.0	210.00	200.00



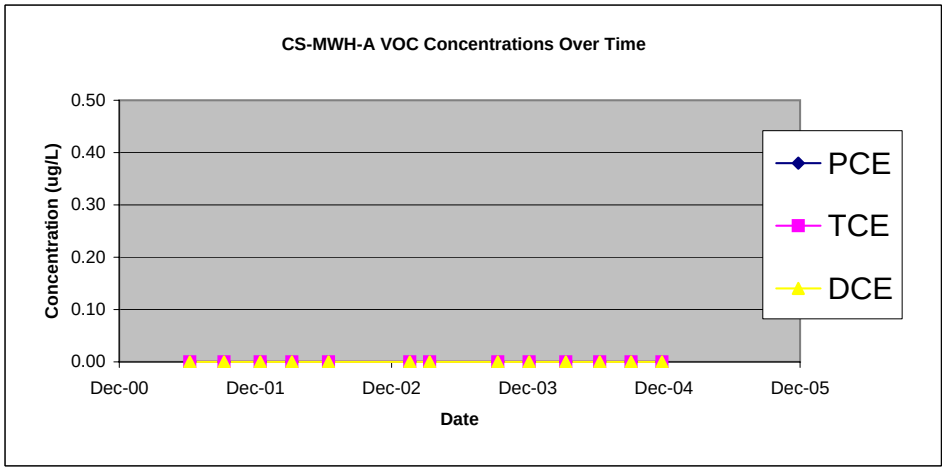
WellID	Date	PCE	TCE	DCE
CS-MW12-A	12/16/02	0.00	0.00	0.00
CS-MW12-A	3/21/03	0.00	0.00	0.00
CS-MW12-A	6/16/03	0.00	0.00	0.00
CS-MW12-A	9/18/03	0.00	0.00	0.00
CS-MW12-A	12/8/03	0.00	0.00	0.00
CS-MW12-A	3/9/04	0.00	0.00	0.00
CS-MW12-A	6/21/04	0.00	0.00	0.00
CS-MW12-A	9/9/04	0.00	0.00	0.00
CS-MW12-A	12/7/04	0.00	0.00	0.00



WellID	Date	PCE	TCE	DCE
CS-MW1-A	9/8/99	15.23	25.13	15.80
CS-MW1-A	12/13/99	5.58	5.30	3.91
CS-MW1-A	3/21/00	3.13	3.00	2.30
CS-MW1-A	6/12/00	3.21	3.60	2.68
CS-MW1-A	9/18/00	25.44	25.00	26.38
CS-MW1-A	12/13/00	15.76	16.80	16.94
CS-MW1-A	3/20/01	24.56	27.80	27.20
CS-MW1-A	6/13/01	21.00	30.00	27.00
CS-MW1-A	9/13/01	24.00	30.00	29.00
CS-MW1-A	12/12/01	22.84	32.29	27.70
CS-MW1-A	3/14/02	19.00	29.00	27.00
CS-MW1-A	9/10/02	12.00	25.00	17.00
CS-MW1-A	11/10/02	1.30	1.20	3.22
CS-MW1-A	11/21/02	0.00	0.00	2.16
CS-MW1-A	12/16/02	17.00	31.00	28.00
CS-MW1-A	12/19/02	0.00	0.00	0.00
CS-MW1-A	3/20/03	13.00	30.00	25.00
CS-MW1-A	3/25/03	0.00	0.00	1.30
CS-MW1-A	3/25/03	0.19	0.24	0.00
CS-MW1-A	6/19/03	9.90	26.00	17.00
CS-MW1-A	9/15/03	11.00	26.00	17.00
CS-MW1-A	12/10/03	10.00	26.00	16.00
CS-MW1-A	3/9/04	9.40	24.00	17.00
CS-MW1-A	6/17/04	19.00	33.00	33.00
CS-MW1-A	9/8/04	16.00	31.00	23.00
CS-MW1-A	11/30/04	41.00	40.00	54.00



WellID	Date	PCE	TCE	DCE
CS-MWH-A	6/12/01	0.00	0.00	0.00
CS-MWH-A	9/12/01	0.00	0.00	0.00
CS-MWH-A	12/18/01	0.00	0.00	0.00
CS-MWH-A	3/13/02	0.00	0.00	0.00
CS-MWH-A	6/19/02	0.00	0.00	0.00
CS-MWH-A	1/23/03	0.00	0.00	0.00
CS-MWH-A	3/17/03	0.00	0.00	0.00
CS-MWH-A	9/16/03	0.00	0.00	0.00
CS-MWH-A	12/9/03	0.00	0.00	0.00
CS-MWH-A	3/16/04	0.00	0.00	0.00
CS-MWH-A	6/15/04	0.00	0.00	0.00
CS-MWH-A	9/7/04	0.00	0.00	0.00
CS-MWH-A	11/29/04	0.00	0.00	0.00



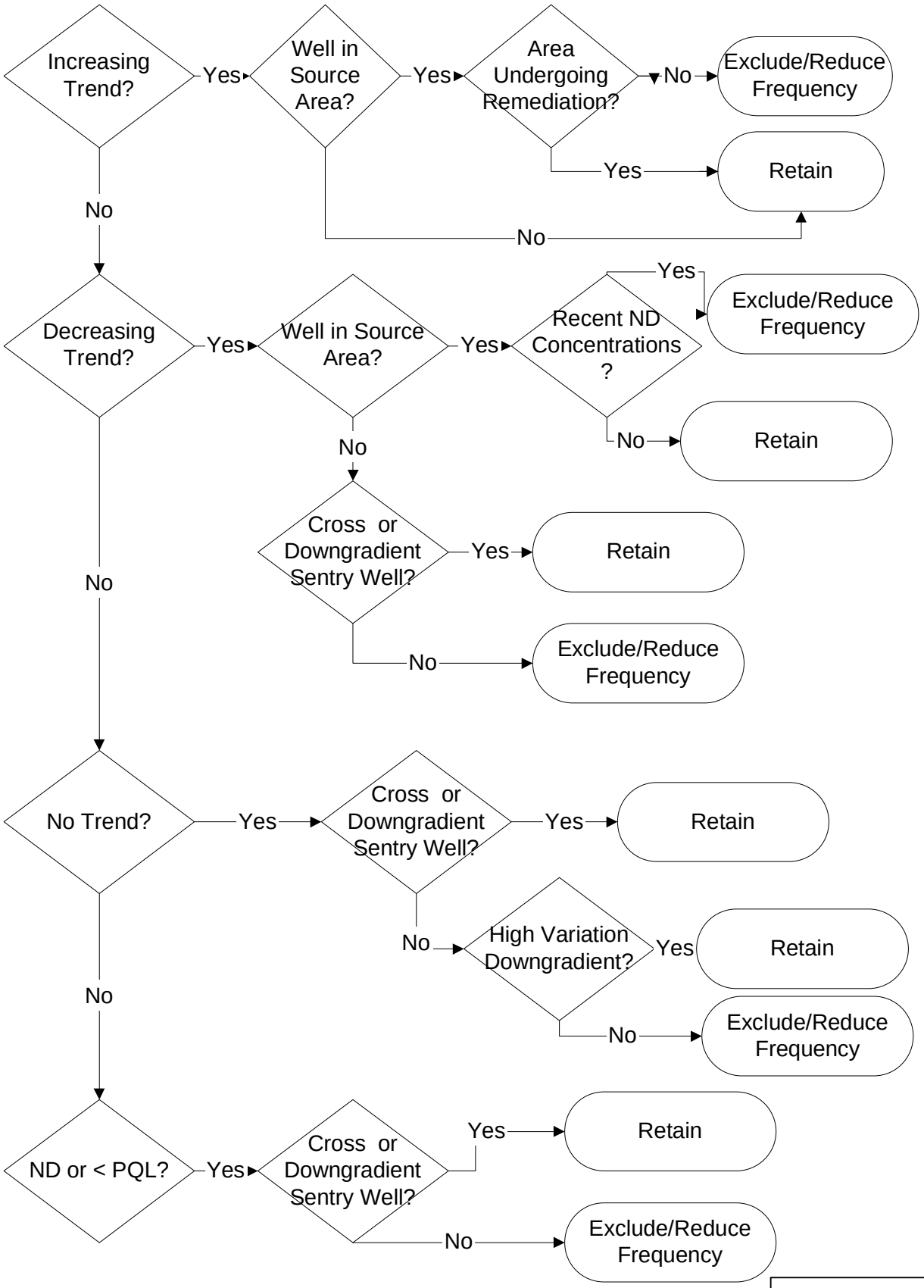


FIGURE 3

TEMPORAL TREND DECISION RATIONALE FLOWCHART

PARSONS

TABLE 6
TEMPORAL TREND ANALYSIS OF GROUNDWATER MONITORING RESULTS
3-TIERED LONG TERM MONITORING OPTIMIZATION
CASE STUDY SITE

Well ID	Realitive Plume Location	PCE	TCE	cis-1,2-DCE	Remove/ Reduce	Retain	Rationale
On Post Monitoring Wells							
CS-1	Sentry	PQL	No Trend	ND		X	Downgradient sentry well; one low detection of TCE in 2000
CS-10	Downgradient	PQL	ND	ND	X		Downgradient; COCs PQL or ND
CS-11	Downgradient	PQL	PQL	PQL	X		Downgradient; COCs PQL
CS-2	Cross gradient	No Trend	PQL	ND	X		Cross gradient; only trace PCE since 1999
CS-3	Cross gradient	No Trend	ND	ND	X		Cross gradient; well not measured since 1999 (trace PCE concentrations)
CS-4	Downgradient	No Trend	Increasing	Increasing		X	Increasing TCE and DCE downgradient of source well
CS-9	Downgradient	PQL	ND	ND	X		Downgradient; lead consistently <5ug/L; all other ND or PQL.
CS-D	Source	Increasing	Increasing	Increasing			
CS-I	Up gradient	PQL	PQL	ND	X		Up gradient well; COCs PQL or ND
CS-MW12-C	Downgradient	ND	ND	ND	X		Downgradient (lower aquifer) well historically ND
CS-MW12-B	Downgradient	ND	ND	ND	X		Downgradient (lower aquifer) well historically ND
CS-MW12-A	Cross gradient	ND	ND	ND			
CS-MW16-B	Downgradient	No Trend	No Trend	No Trend		X	Variable PCE, TCE, and DCE > MCL downgradient (below) source area
CS-MW16-A	Source	Decreasing	Decreasing	Decreasing		X	Decreasing TCE, PCE, and DCE > MCLs in source area
CS-MW17-A	Downgradient	PQL	PQL	ND	X		Downgradient ND or PQL
CS-MW18-A	Downgradient	PQL	PQL	ND	X		Downgradient; COCs historically ND or PQL
CS-MW19-A	Downgradient	PQL	ND	ND	X		Downgradient; COCs historically ND or PQL
CS-MW1-C	Downgradient	PQL	PQL	Decreasing	X		Downgradient (lower aquifer) well; DCE < 1.1 ug/L
CS-MW1-B	Downgradient	ND	ND	ND	X		Downgradient (lower aquifer) well; all COCs ND
CS-MW1-A	Downgradient	No Trend	Increasing	No Trend			
CS-MW2-B	Downgradient	ND	ND	ND	X		Downgradient (lower aquifer) well; all COCs ND
CS-MW2-A	Downgradient	Decreasing	Decreasing	Decreasing	X		Decreasing trends in downgradient well currently ND or << MCL
CS-MW3-A	Cross gradient	PQL	PQL	ND	X		Cross gradient;COCs ND or PQL
CS-MW4-A	Downgradient	PQL	PQL	PQL	X		Downgradient; COCs PQL
CS-MW5-A	Downgradient	No Trend	No Trend	No Trend	X		Stable COCs downgradient
CS-MW9-C	Downgradient	ND	ND	ND	X		Downgradient (lower aquifer) well; COCs ND or PQL
CS-MW9-B	Downgradient	ND	ND	PQL	X		Downgradient (lower aquifer) well; COCs ND or PQL
CS-MW9-A	Up gradient	PQL	PQL	ND	X		Up gradient; COCs historically ND or PQL
CS-MWG-A	Up gradient	ND	ND	ND	X		Upgradient well; COCs ND
CS-MWH-A	Up gradient	ND	ND	ND			
Off Post Monitoring Wells							
FO-22	Cross gradient	ND	ND	ND	X		Cross gradient; COCs historically ND
FO-8	Up gradient	<4Meas	<4Meas	<4Meas	Not Analyzed		No recommendation due to limited data over time.
JW-12	Sentry	<4Meas	<4Meas	<4Meas	Not Analyzed		No recommendation due to limited data over time.
JW-13	Sentry	ND	ND	ND		X	Downgradient sentry well; COCs historically ND
JW-14	Sentry	PQL	ND	ND		X	Downgradient sentry well; COCs historically ND or PQL
JW-9	Sentry	PQL	ND	PQL		X	Downgradient sentry well; COCs historically ND or PQL
RFR-3	Cross gradient	PQL	ND	ND	X		Cross gradient; COCs historically ND or PQL
RFR-6	Cross gradient	ND	ND	ND	X		Cross gradient; COCs historically ND
RFR-7	Cross gradient	ND	ND	ND	X		Cross gradient; COCs historically ND
RFR-8	Cross gradient	ND	ND	ND	X		Cross gradient; COCs historically ND
RFR-9	Sentry	ND	ND	ND		X	Downgradient sentry well; COCs historically ND

ND	= Constituent has not been detected during history of monitoring at inidcated well.
No Trend	= No statistically significant temporal trend in concentrations.
Increasing	= Statistically significant increasing trend in concentrations.
Decreasing	= Statistically significant decreasing trend in concentrations.
PQL	= Concentrations consistently below practical quantitation limit.
<4Meas	= Fewer than 4 measurements for COC.
No Data	= No analytical data available for well and COC.

TABLE 8

RESULTS OF GEOSTATISTICAL EVALUATION RANKING OF WELLS BY RELATIVE VALUE OF TOTAL COC INFORMATION IN THE LGR ZONE

THREE-TIERED LONG TERM MONITORING OPTIMIZATION

CASE STUDY SITE

Well ID [a/]	Spatial Metric	Kriging Ranking [b/]	Remove	Retain
CS-4	0.99930	1	X	
CS-MW2-A	0.99956	2	X	
CS-MW1-A	0.99964	3		
CS-11	0.99986	4	X	
JW-13	0.99987	5	X	
JW-9	0.99988	6	X	
JW-14	0.99990	7	X	
RFR-8	1.00000	8.5	X	
CS-9	1.00007	10	--[d/]	--
RFR-7	1.00008	11	--	--
CS-D	1.00011	12		
CS-10	1.00067	13	--	--
RFR-6	1.00229	14	--	--
CS-MW16-A	1.00335	15	--	--
CS-2	1.00471	16	--	--
FO-22	1.00471	17	--	--
CS-I	1.00498	18	--	--
CS-1	1.00551	19	--	--
CS-MW5-A	1.00854	20	--	--
RFR-9	1.00868	21	--	--
CS-MW18-A	1.01150	22		X
CS-MW9-A	1.01706	23		X
CS-MWH-A	1.01766	24		
FO-8	1.01913	25		X
CS-MW12-A	1.02196	26		
RFR-3	1.02197	27		X
CS-MW3-A	1.02380	28		X
CS-MW17-A	1.02402	29		X
CS-MW4-A	1.02595	30		X
CS-MW19-A	1.02990	31		X
CS-MWG-A	1.03843	32		X
JW-12	1.00000	8.5[c/]	X	

[a/] Zone A well CS-3 excluded due to most recent sampling event in 1999.

[b/] 1= least relative amount of information; 32 = most relative amount of information.

[c/] Tie values receive the median ranking of the set.

[d/] Well in the "intermediate" range; received no recommendation for removal/exclusion or retention/addition

TABLE 9

SUMMARY OF EVALUATION OF CURRENT GROUNDWATER MONITORING PROGRAM
3-TIERED LONG TERM MONITORING OPTIMIZATION
CASE STUDY SITE

Well ID	Current Sampling Frequency	Qualitative Evaluation			Temporal Evaluation		Spatial Evaluation		Summary			Rationale
		Remove	Retain	Frequency	Remove/ Reduce	Retain	Remove/ Reduce	Retain	Remove	Retain	Recommended Monitoring Frequency	
On Post Monitoring Wells												
CS-1	Quarterly		X	Semi-annual		X	--	--		X	Semi-Annual	Statistics confirm qualitative evaluation
CS-10	Quarterly		X	Semi-annual	X		--	--		X	Semi-Annual	Qualitative factor (water supply well) overrides statistic recommendations
CS-11	Quarterly		X	Annual	X		X			X	Biennial	Reduce frequency based on statistics
CS-2	Quarterly		X	Biennial	X		--	--		X	Biennial	Statistics confirm qualitative evaluation
CS-3	Quarterly	X		Remove	X		Not Included		X		Remove	Statistics confirm qualitative evaluation
CS-4	Quarterly	X		Remove		X	X			X	Annual	Retain well due to temporal trend
CS-9	Quarterly		X	Semi-annual	X		--d/	--		X	Semi-Annual	Qualitative factor (water supply well) overrides statistic recommendations
CS-D	Quarterly											
CS-I	Quarterly	X		Remove	X		--	--	X		Remove	Statistics confirm qualitative evaluation
CS-MW12-C	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW12-B	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW12-A	Quarterly											
CS-MW16-B	Quarterly		X	Semi-annual		X	Not Included			X	Semi-Annual	Statistics confirm qualitative evaluation
CS-MW16-A	Quarterly		X	Semi-annual		X	--	--		X	Semi-Annual	Statistics confirm qualitative evaluation
CS-MW17-A	Quarterly		X	Annual	X			X		X	Annual	Spatial statistics confirms qualitative evaluation
CS-MW18-A	Quarterly		X	Annual	X	0		X		X	Annual	Spatial statistics confirms qualitative evaluation
CS-MW19-A	Quarterly		X	Annual	X			X		X	Annual	Spatial statistics confirms qualitative evaluation
CS-MW1-C	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW1-B	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW1-A	Quarterly											
CS-MW2-B	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW2-A	Quarterly		X	Biennial	X		X			X	Biennial	Statistics confirm qualitative evaluation
CS-MW3-A	Quarterly		X	Biennial	X			X		X	Biennial	Statistics confirm qualitative evaluation
CS-MW4-A	Quarterly	X		Remove	X			X		X	Biennial	Retain well due to spatial analysis
CS-MW5-A	Quarterly		X	Biennial	X		--	--		X	Biennial	Statistics confirm qualitative evaluation

TABLE 9

SUMMARY OF EVALUATION OF CURRENT GROUNDWATER MONITORING PROGRAM
3-TIERED LONG TERM MONITORING OPTIMIZATION
CASE STUDY SITE

Well ID	Current Sampling Frequency	Qualitative Evaluation			Temporal Evaluation		Spatial Evaluation		Summary			Rationale
		Remove	Retain	Frequency	Remove/ Reduce	Retain	Remove/ Reduce	Retain	Remove	Retain	Recommended Monitoring Frequency	
CS-MW9-C	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW9-B	Quarterly		X	Biennial	X		Not Included			X	Biennial	Statistics confirm qualitative evaluation
CS-MW9-A	Quarterly		X	Biennial	X			X		X	Biennial	Statistics confirm qualitative evaluation
CS-MWG-A	Quarterly		X	Biennial	X			X		X	Biennial	Statistics confirm qualitative evaluation
CS-MWH-A	Quarterly											
Off Post Monitoring Wells												
FO-22	Annually	X		Remove	X		--	--	X		Remove	Statistics confirm qualitative evaluation
FO-8	Annually	X		Remove	Not Analyzed			X	X		Remove	Qualitative factor (adequate up gradient data) overrides statistics
JW-12	Annually		X	Annual	Not Analyzed		X			X	Annual	Qualitative factor (sentry well) overrides statistic recommendations
JW-13	Annually		X	Annual		X	X			X	Annual	Temporal statistics confirm qualitative evaluation
JW-14	Quarterly		X	Annual		X	X			X	Annual	Temporal statistics confirm qualitative evaluation
JW-9	Quarterly		X	Annual		X	X			X	Annual	Temporal statistics confirm qualitative evaluation
RFR-3	Quarterly	X		Remove	X			X	X		Remove	Qualitative factor (cross gradient and distant from plume) overrides statistics
RFR-6	Annually		X	Biennial	X		--	--		X	Biennial	Statistics confirm qualitative evaluation
RFR-7	Annually		X	Biennial	X		--	--		X	Biennial	Statistics confirm qualitative evaluation
RFR-8	Annually		X	Biennial	X		X			X	Biennial	Statistics confirm qualitative evaluation
RFR-9	Annually		X	Biennial		X	--	--		X	Biennial	Statistics confirm qualitative evaluation