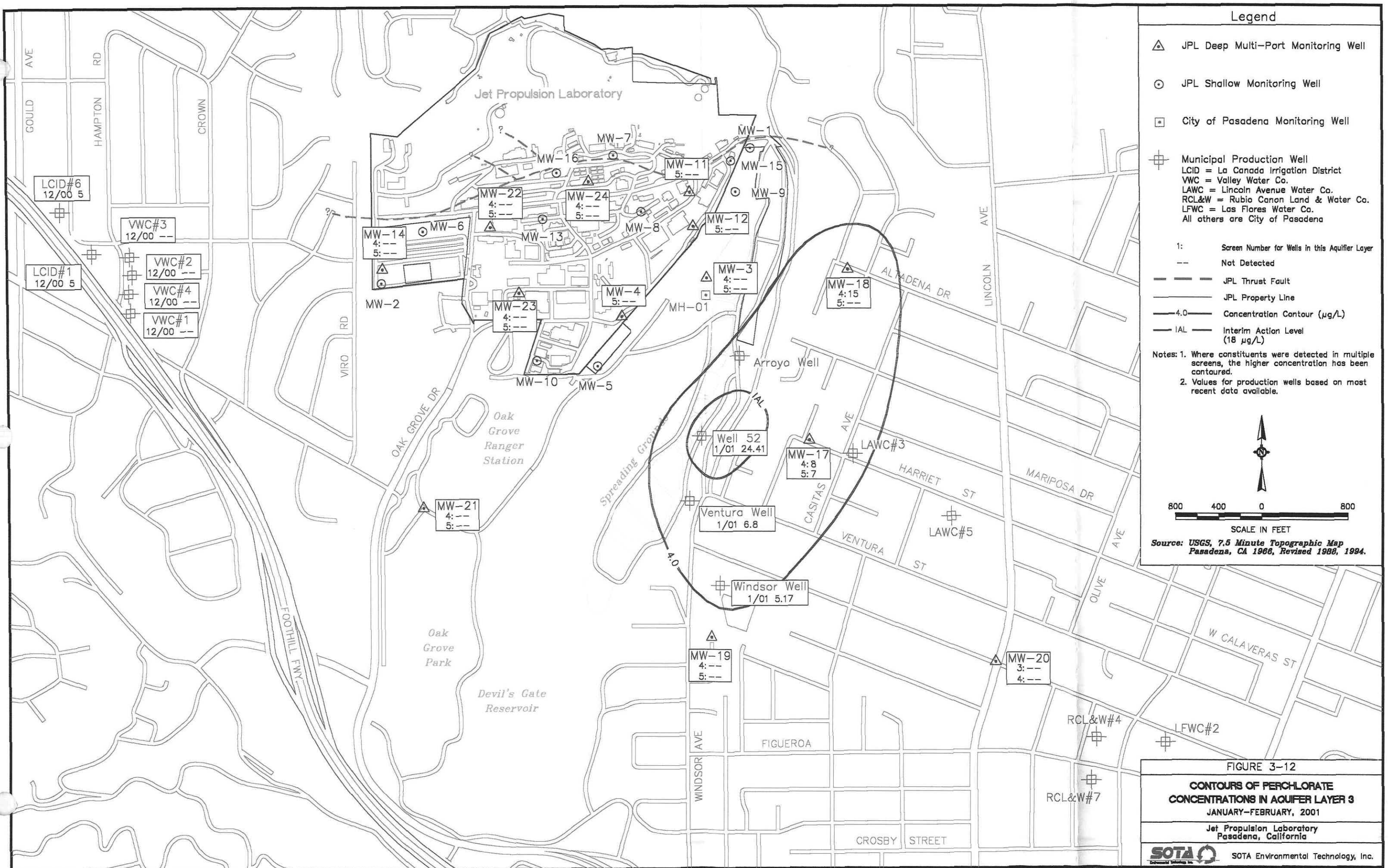
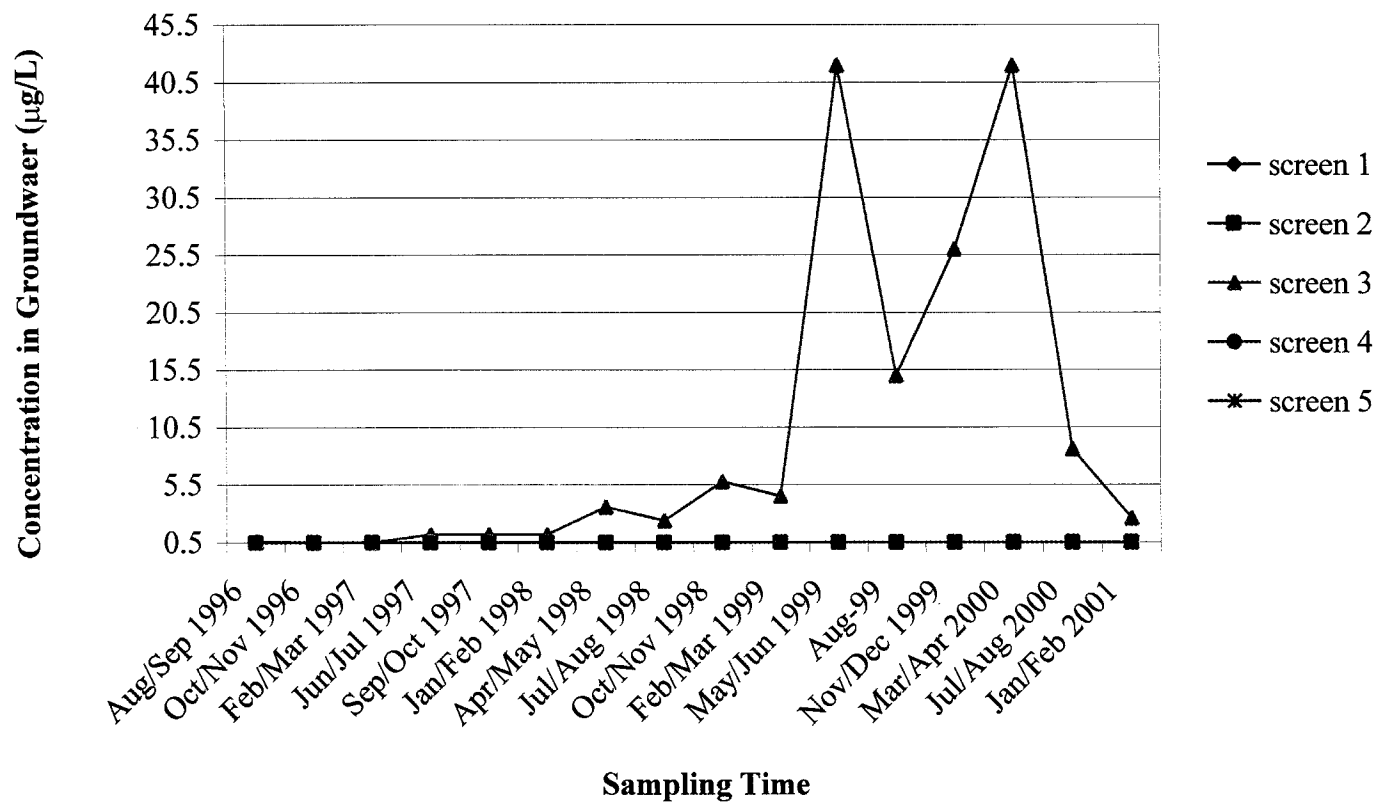
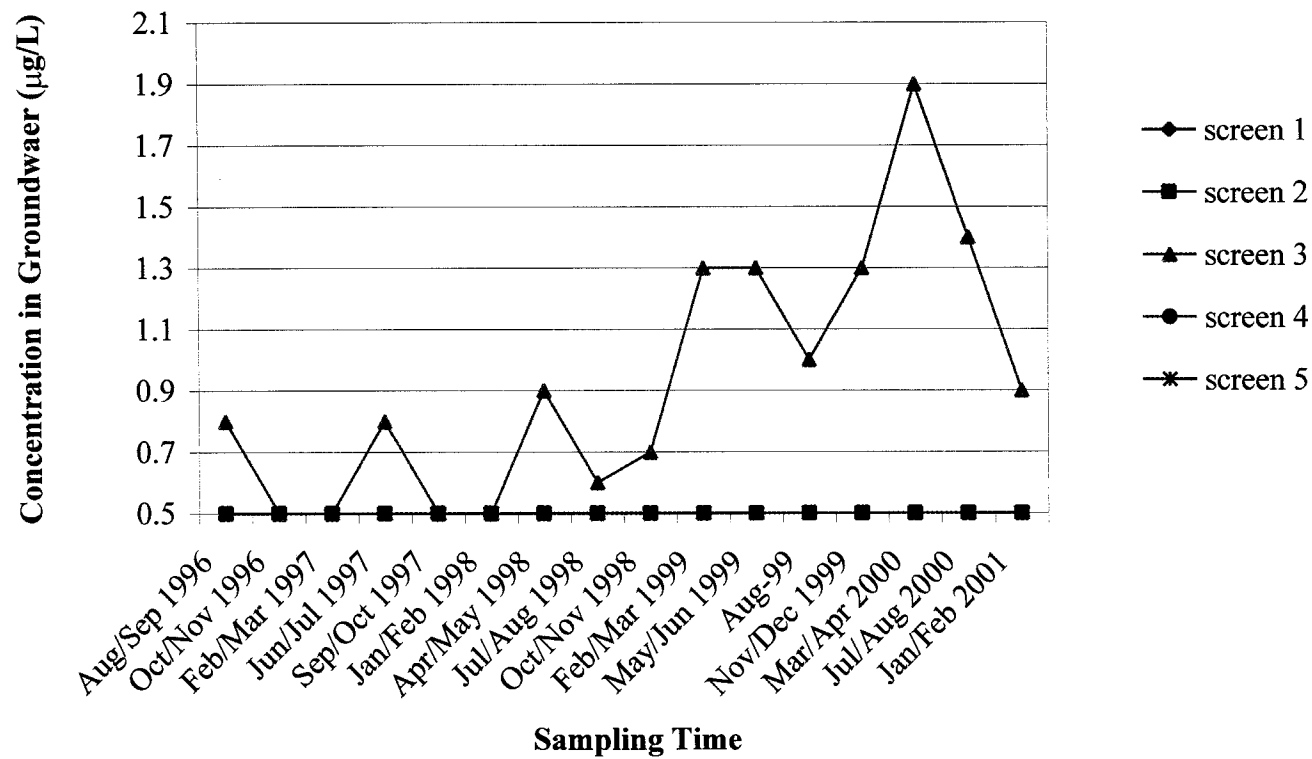


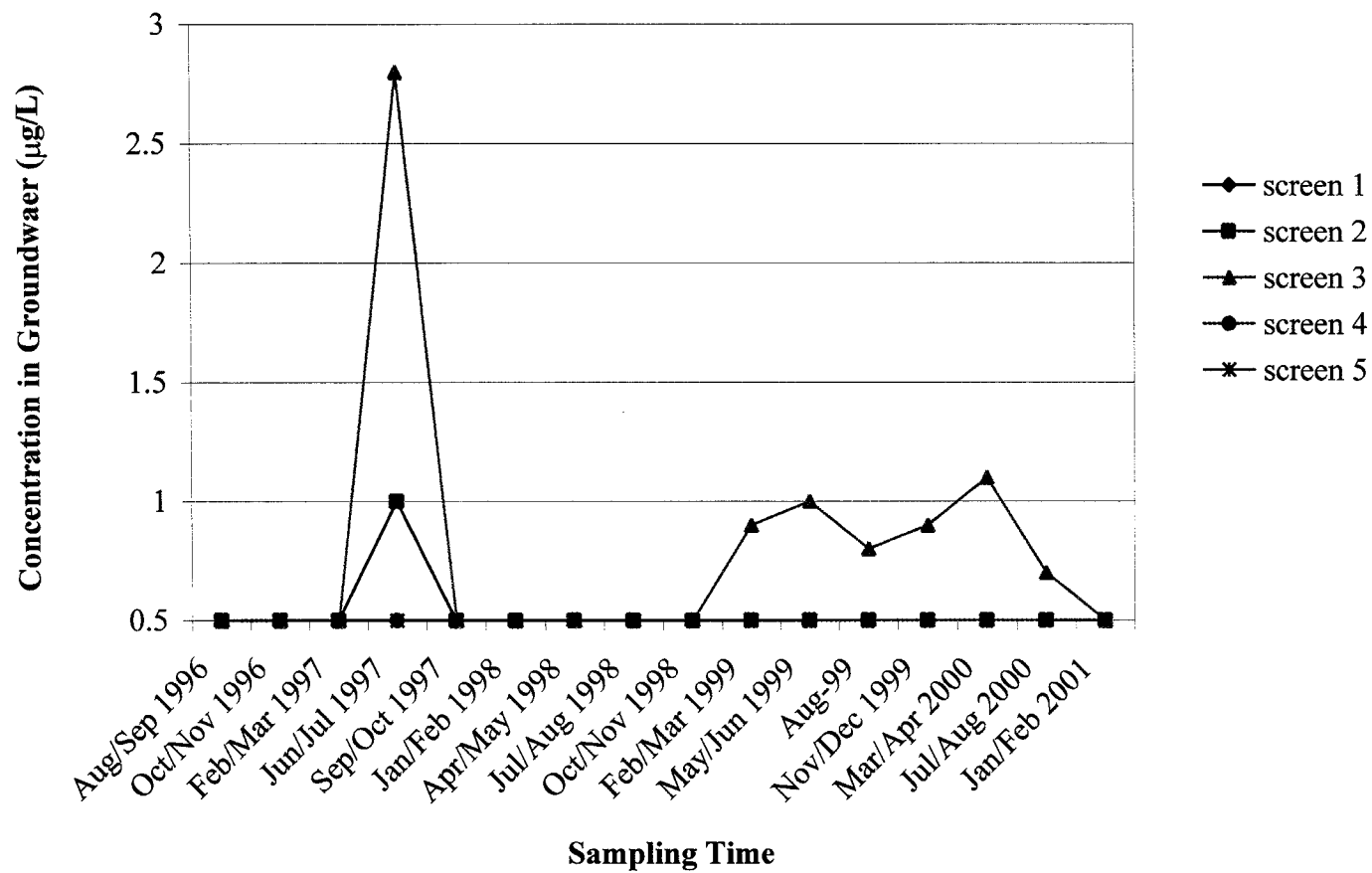




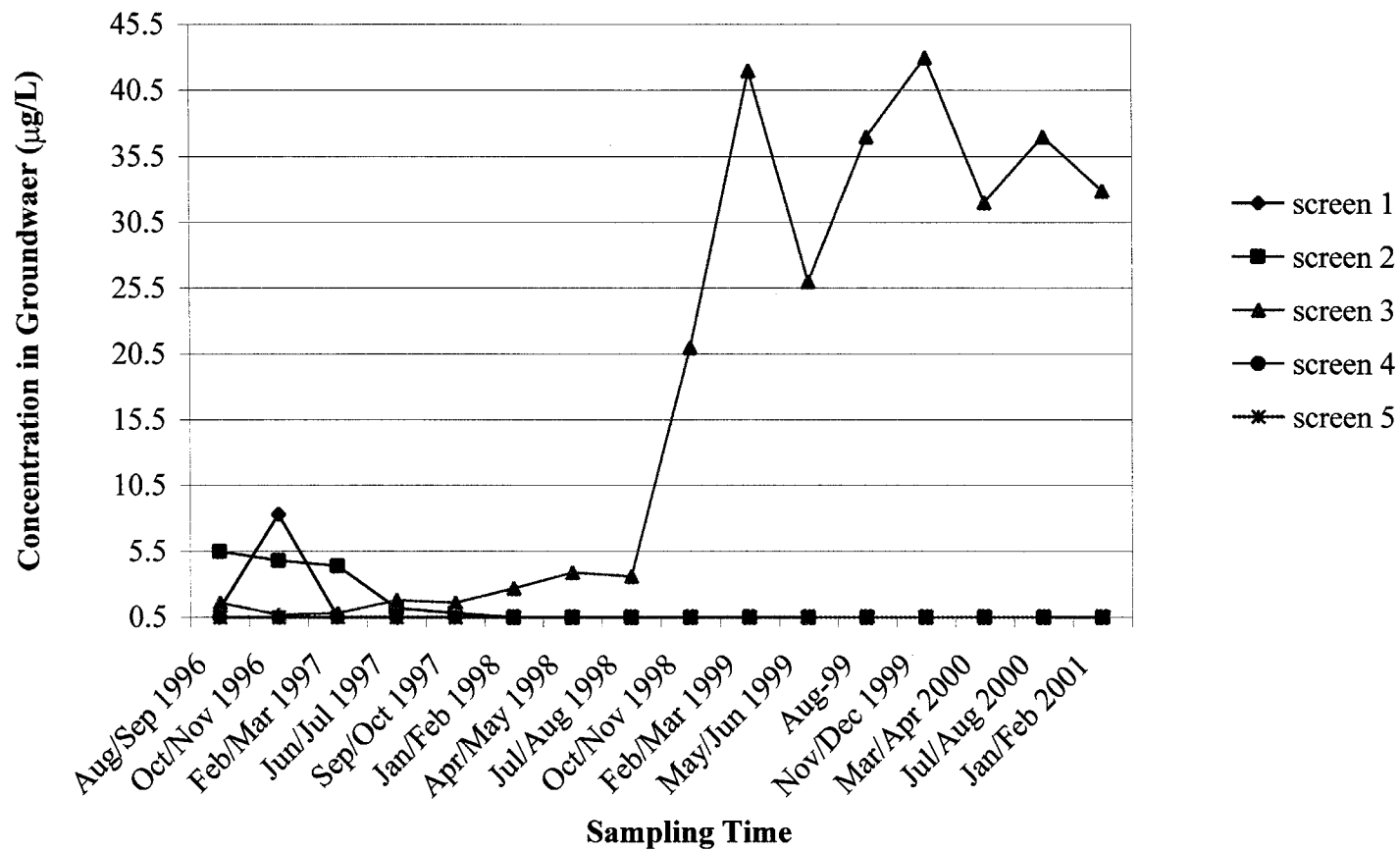
**Figure 3-13** Carbon Tetrachloride Detected at MW-3 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



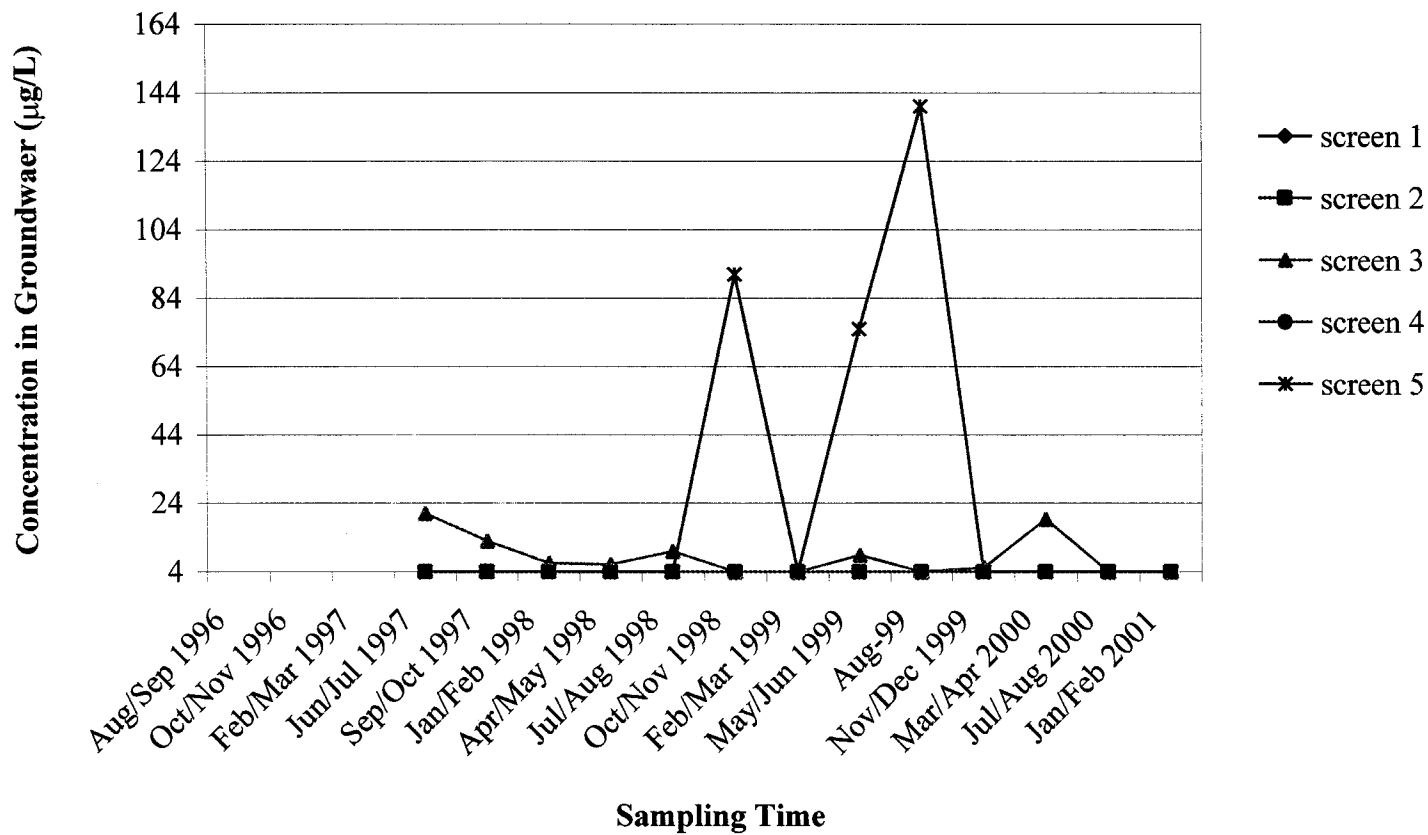
**Figure 3-14** TCE Detected at MW-3 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



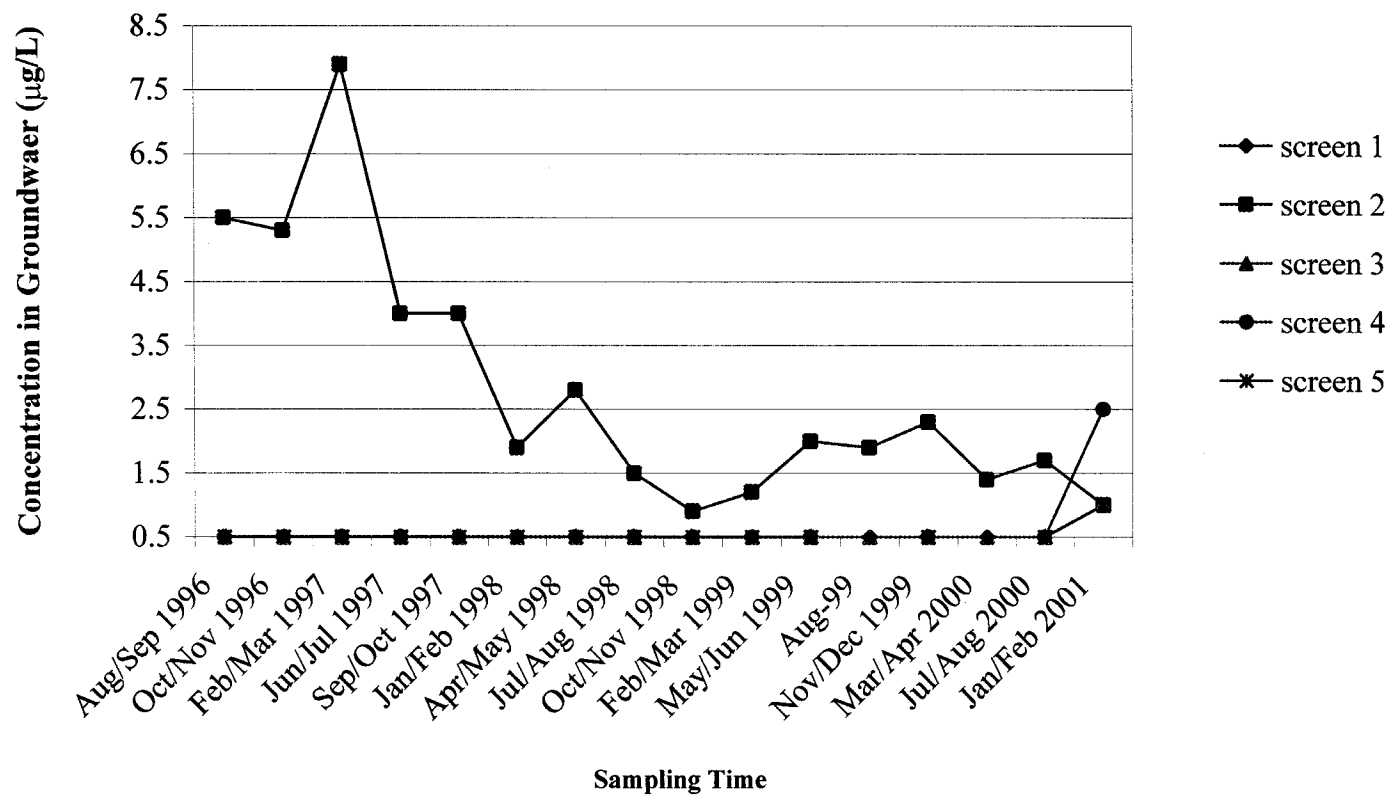
**Figure 3-15** Freon 113 Detected at MW-3 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 1,200 µg/L)



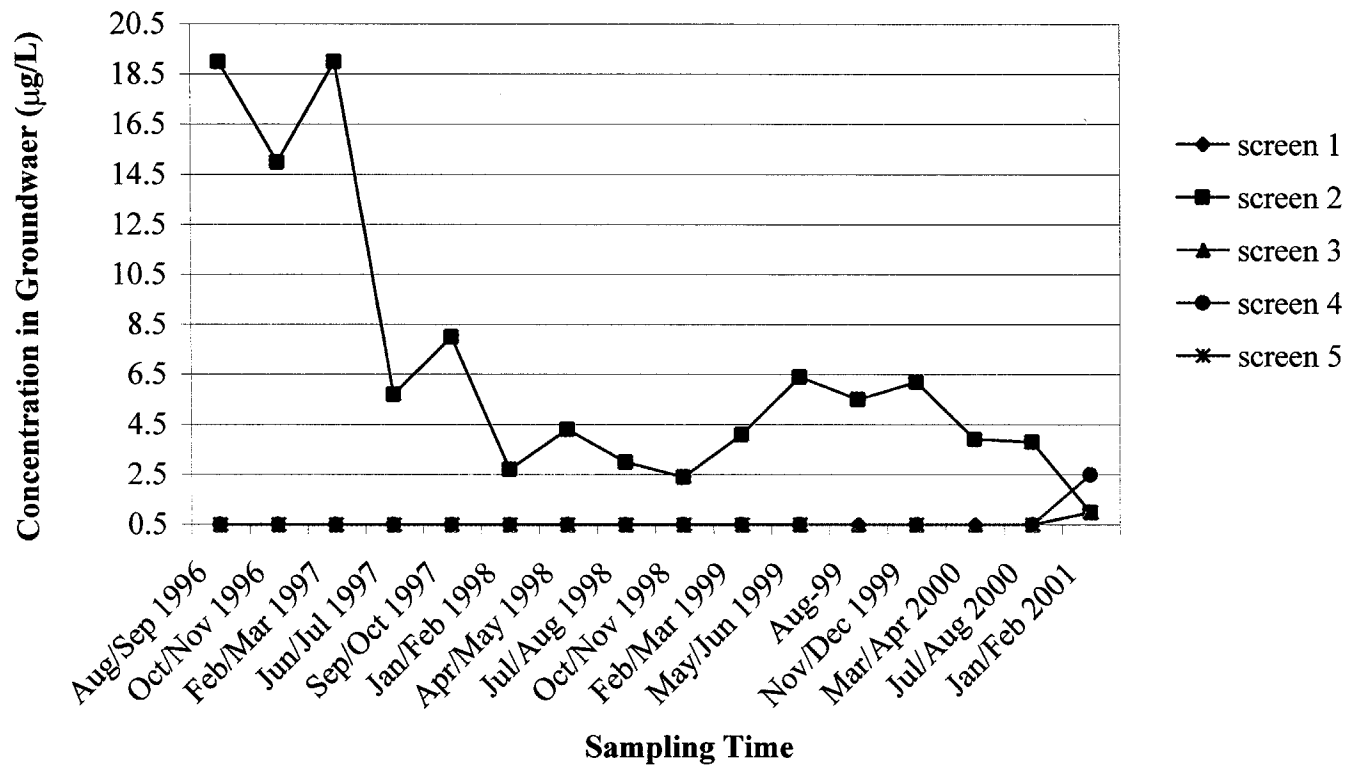
**Figure 3-16** Chloroform Detected at MW-3 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



**Figure 3-17** Perchlorate Detected at MW-3 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $4 \mu\text{g/L}$ , CA IAL =  $18 \mu\text{g/L}$  )

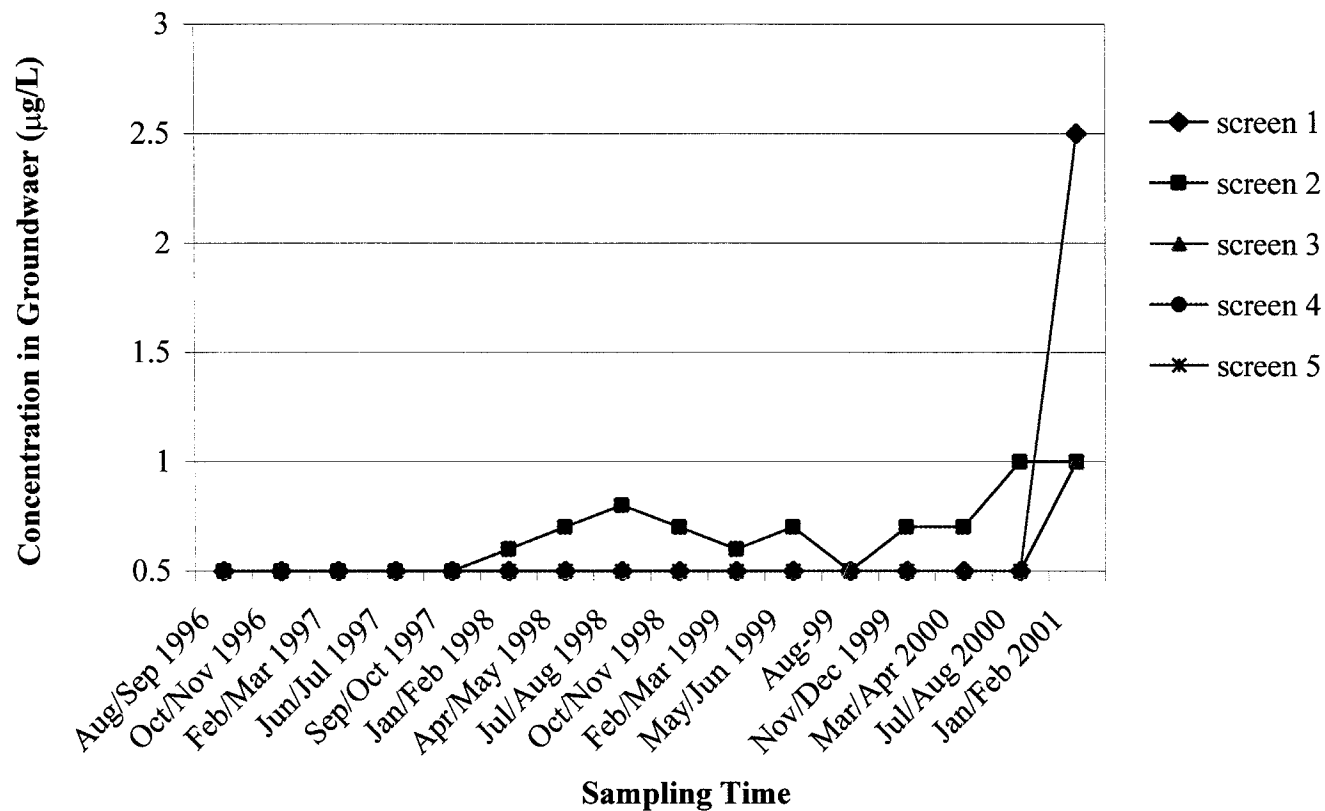


**Figure 3-18** Carbon Tetrachloride Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
 (Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$  except for Jan/Feb 2001, screen 1 and 4 = 2.5  $\mu\text{g/L}$ ,  
 screen 2,3, and 5 = 1  $\mu\text{g/L}$ . CA MCL = 0.5  $\mu\text{g/L}$ )

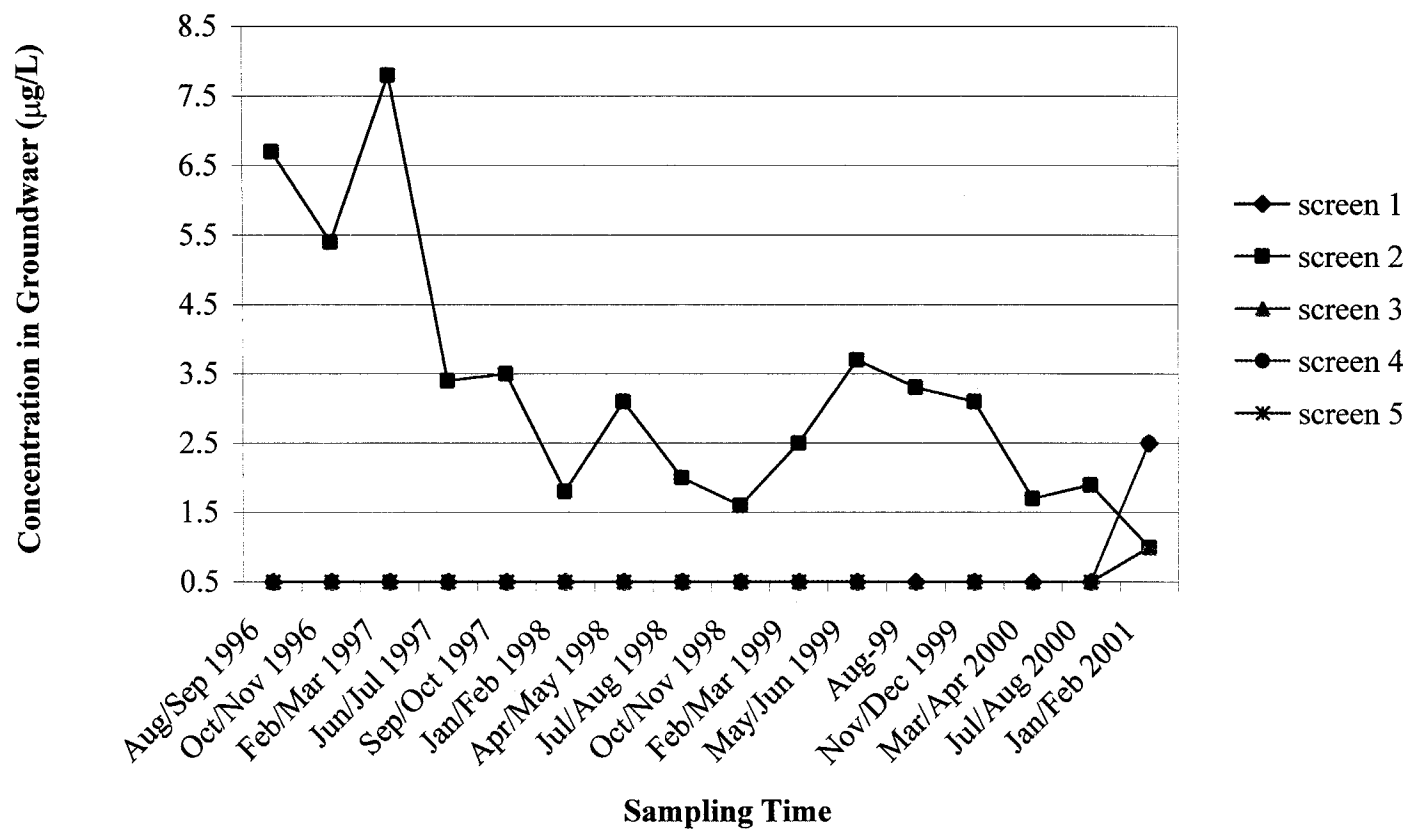


**Figure 3-19** TCE Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001

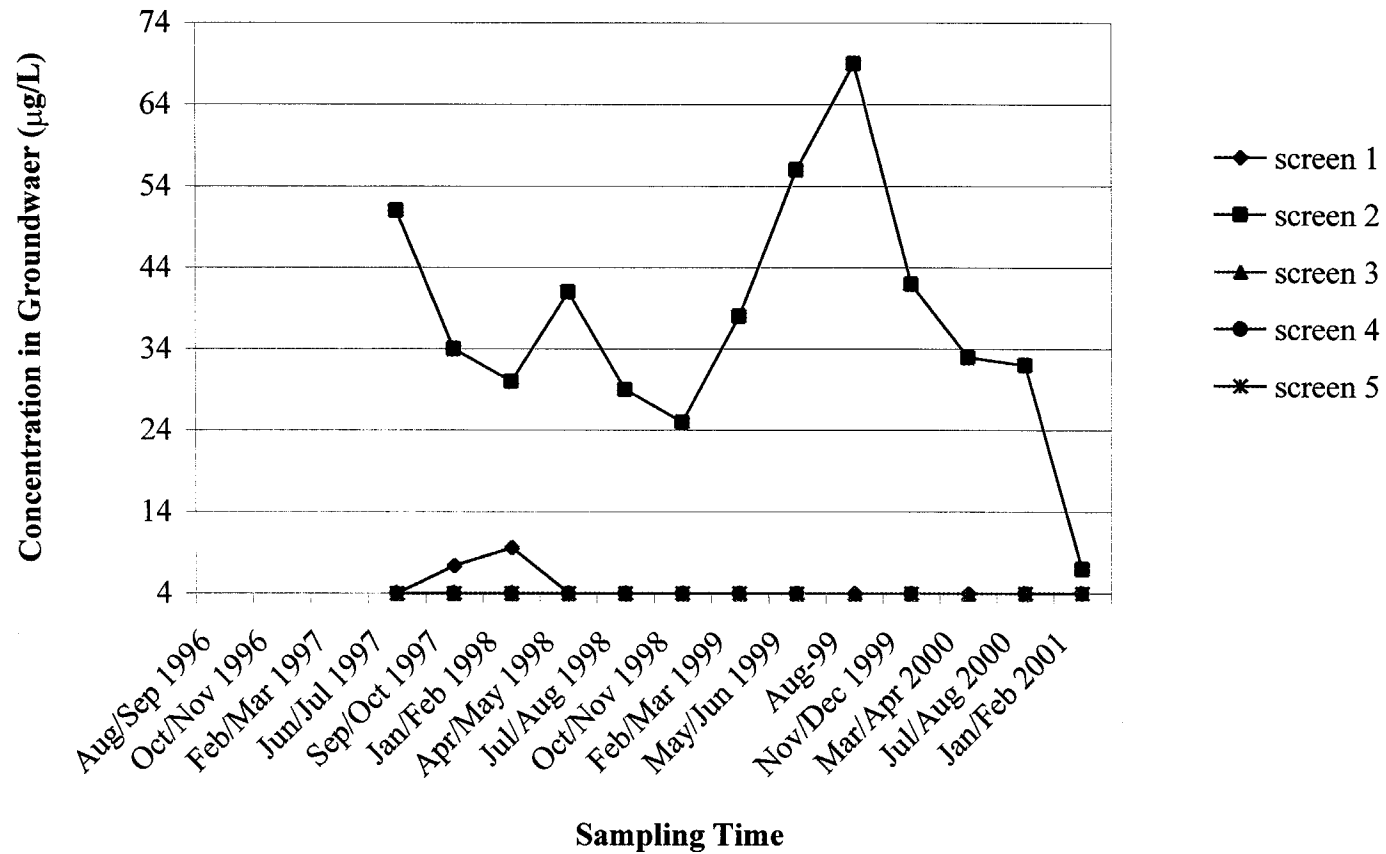
(Laboratory Practical Quantitation Limit = 0.5 µg/L except for Jan/Feb 2001, screen 1 and 4 = 2.5 µg/L, screen 2,3, and 5 = 1 µg/L. CA MCL = 5 µg/L)



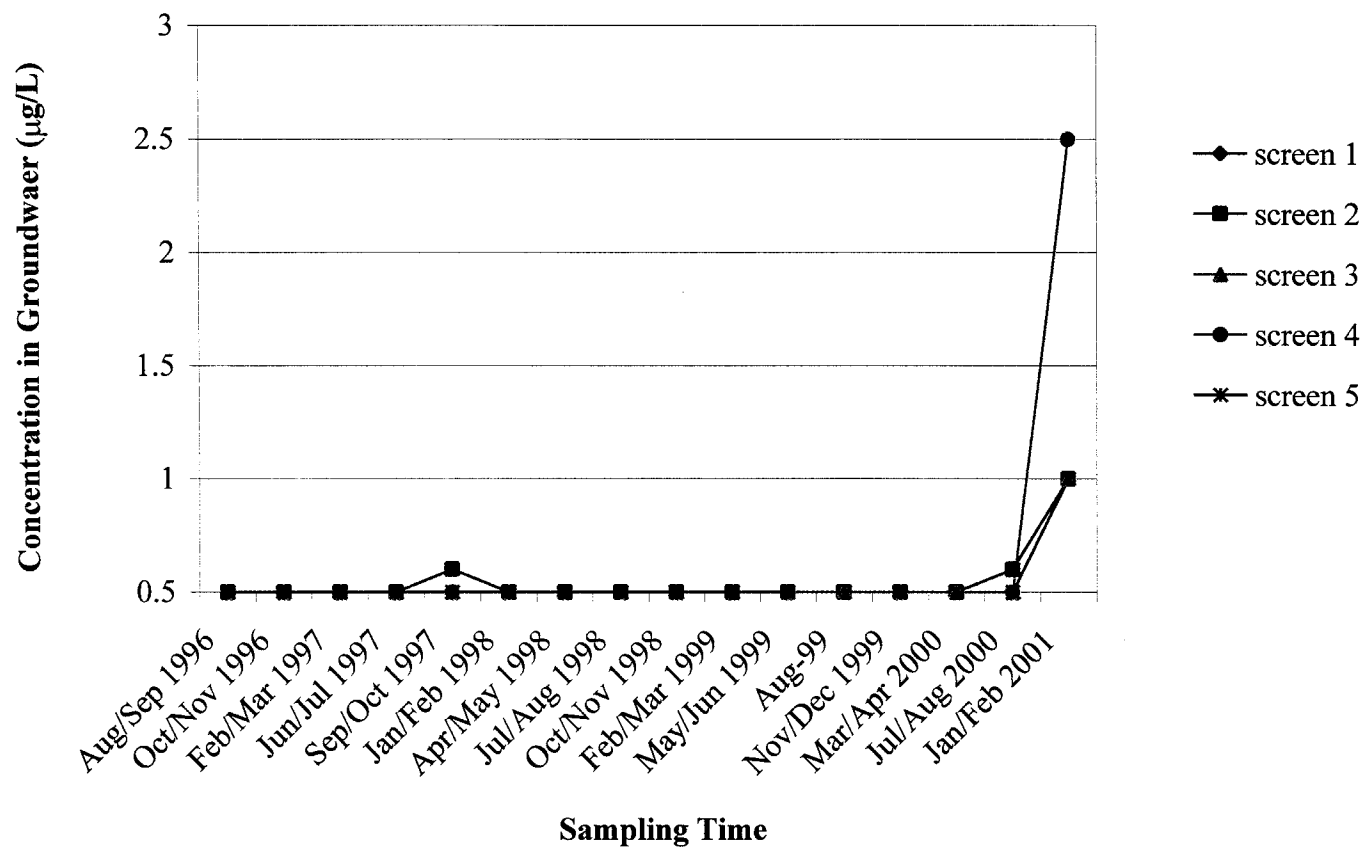
**Figure 3-20** PCE Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
 (Laboratory Practical Quantitation Limit = 0.5 µg/L except for Jan/Feb 2001, screen 1 and 4 = 2.5 µg/L, screen 2,3, and 5 = 1 µg/L. CA MCL = 5 µg/L)



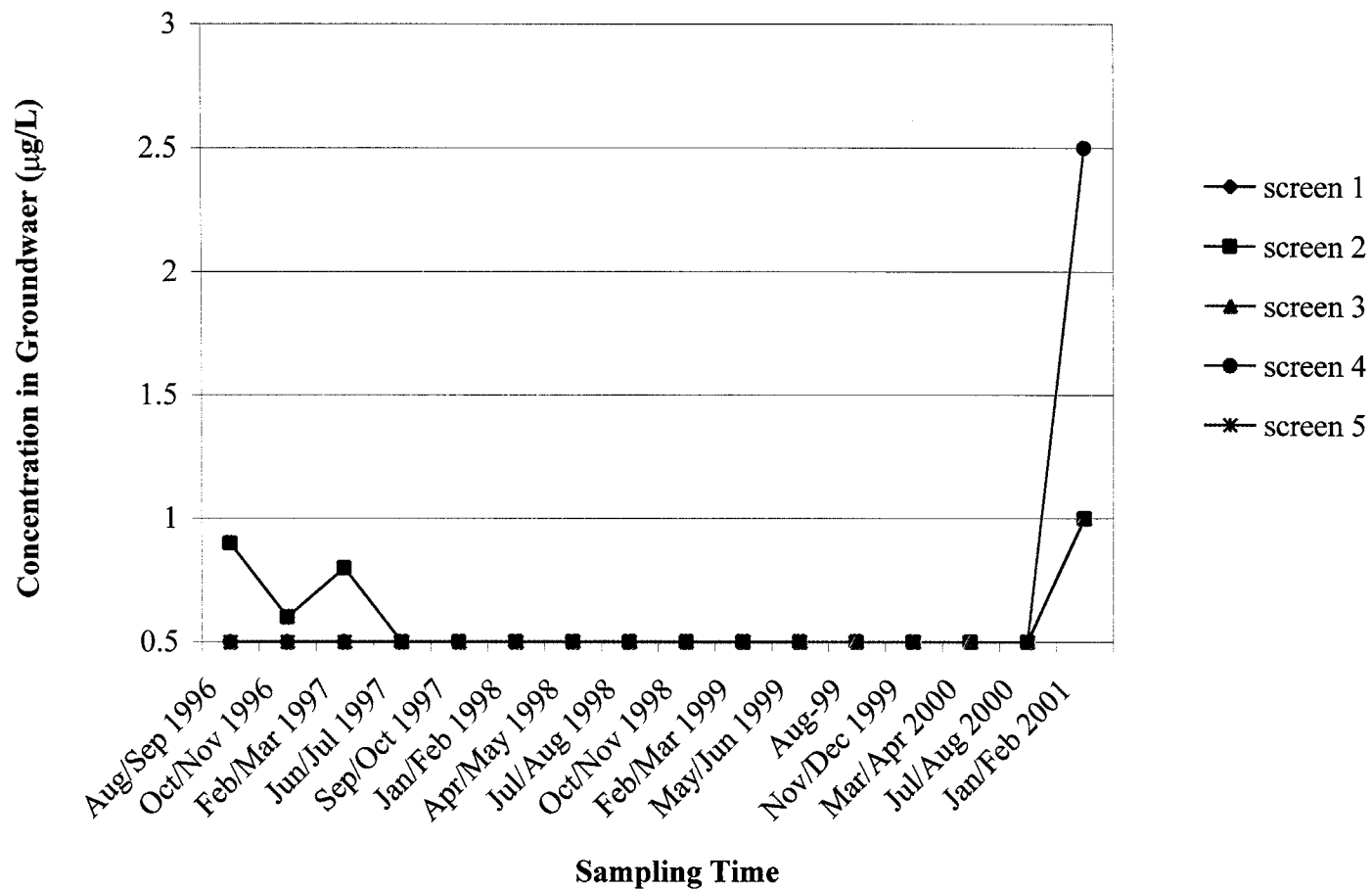
**Figure 3-21** Chloroform Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
 (Laboratory Practical Quantitation Limit = 0.5 µg/L except for Jan/Feb 2001, screen 1 and 4 = 2.5 µg/L, screen 2,3, and 5 = 1 µg/L. CA MCL = 100 µg/L)



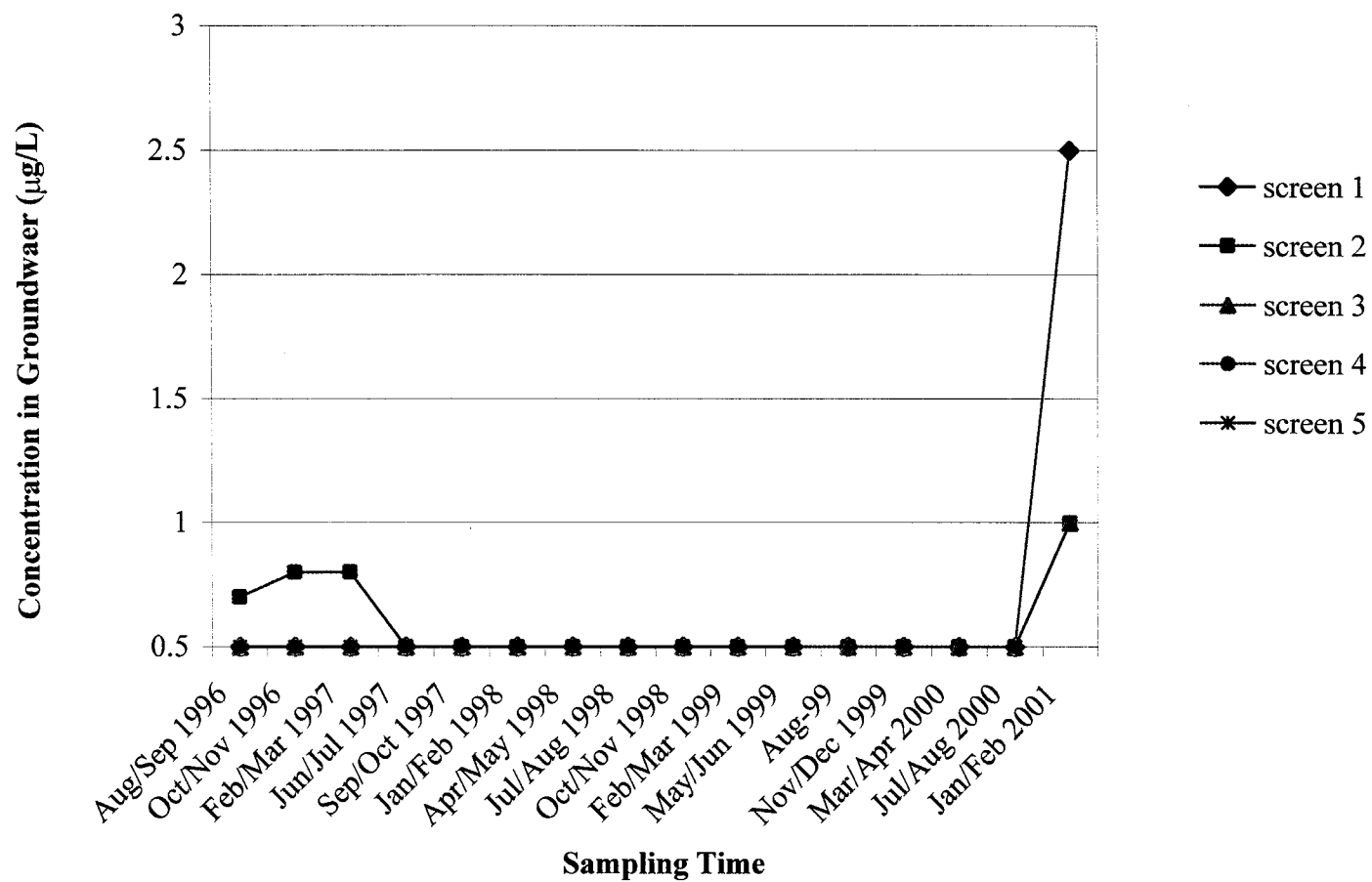
**Figure 3-22** Perchlorate Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



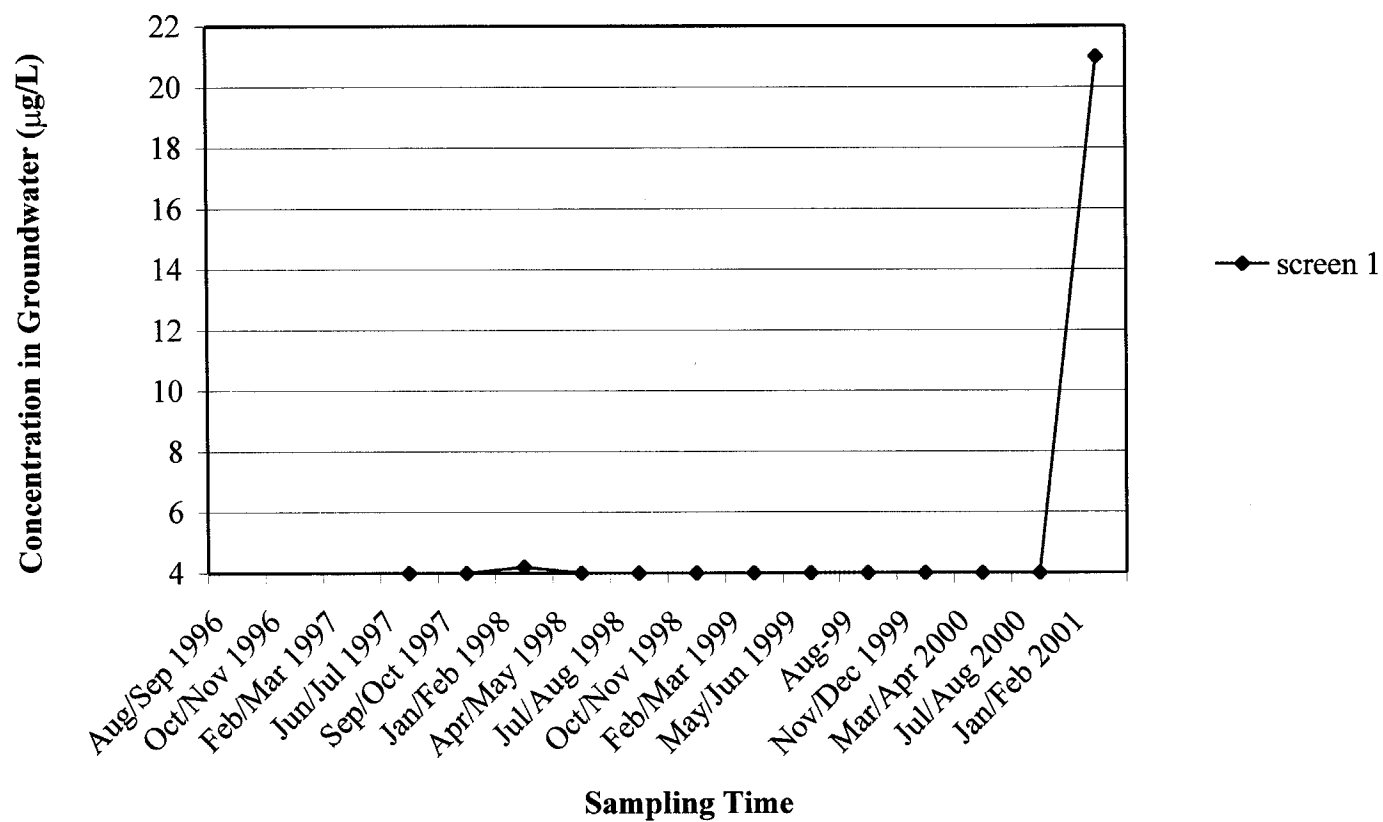
**Figure 3-23** 1,1-DCA Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
 (Laboratory Practical Quantitation Limit = 0.5 µg/L except for Jan/Feb 2001, screen 1 and 4 = 2.5 µg/L, screen 2,3, and 5 = 1 µg/L. CA MCL = 5 µg/L)



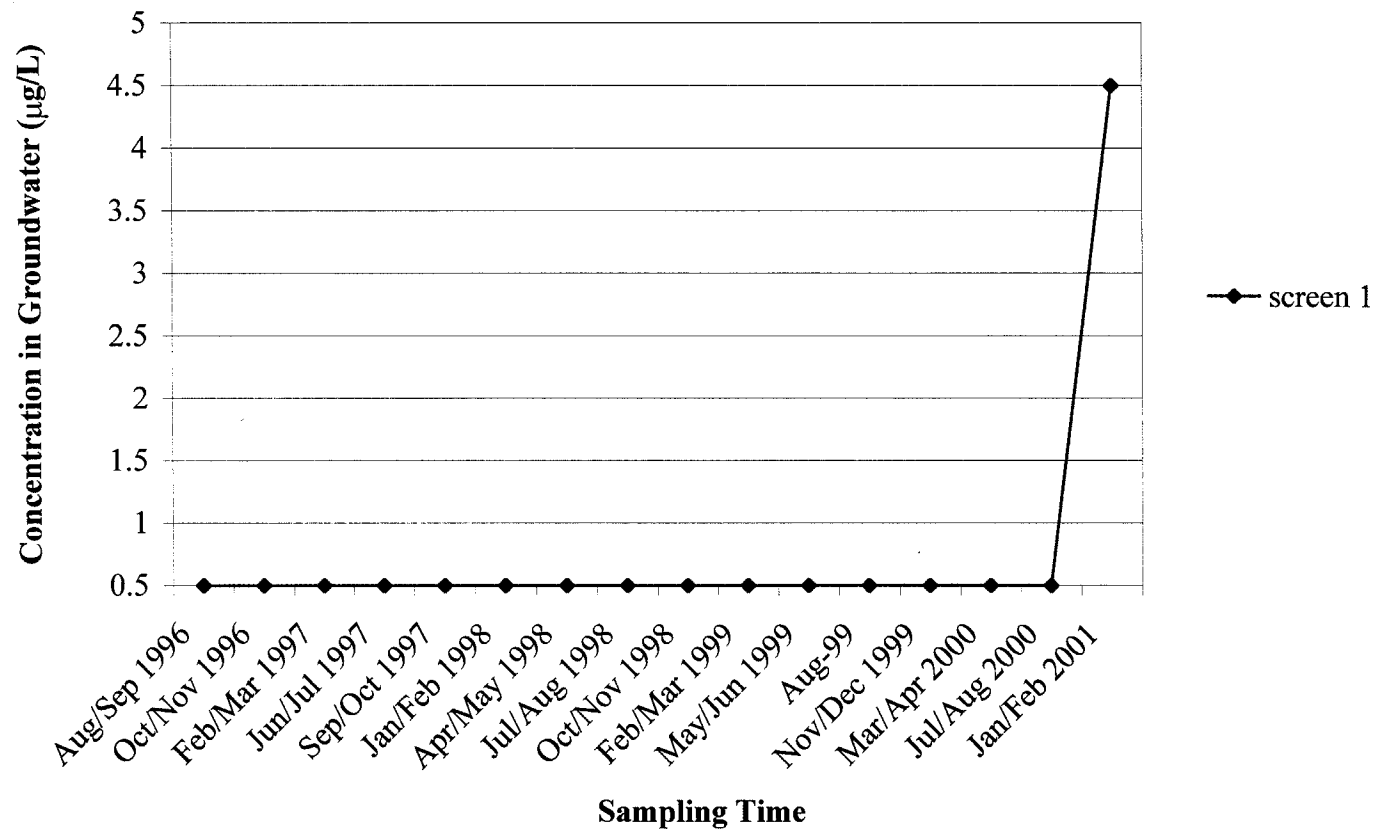
**Figure 3-24** 1,2-DCA Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L except for Jan/Feb 2001, screen 1 and 4 = 2.5 µg/L,  
screen 2,3, and 5 = 1 µg/L. CA MCL = 0.5 µg/L)



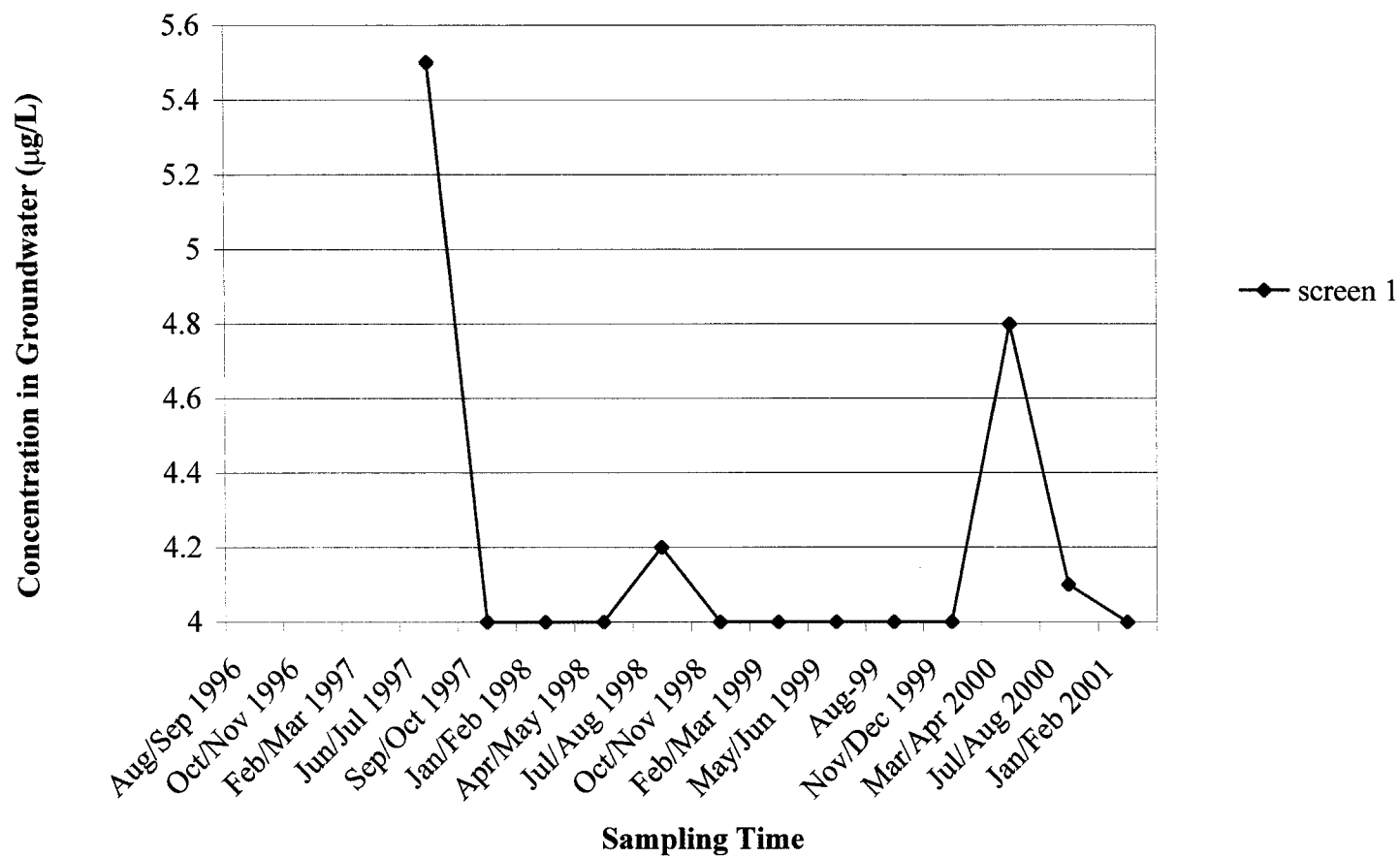
**Figure 3-25** 1,1-DCE Detected at MW-4 from Aug/Sep 1996 to Jan/Feb 2001  
 (Laboratory Practical Quantitation Limit = 0.5 µg/L except for Jan/Feb 2001, screen 1 and 4 = 2.5 µg/L,  
 screen 2,3, and 5 = 1 µg/L. CA MCL = 6 µg/L)



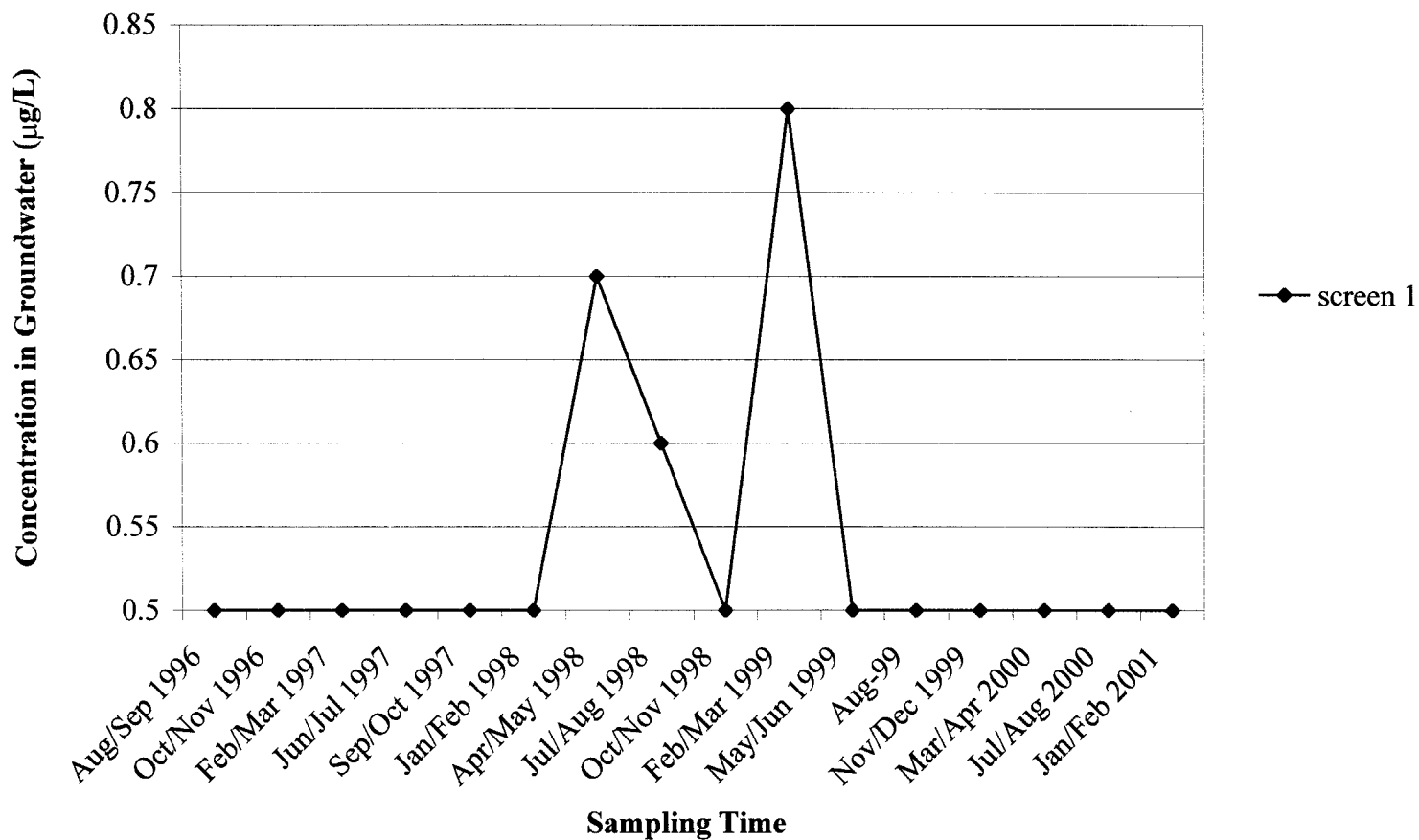
**Figure 3-26** Perchlorate Detected at MW-5 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



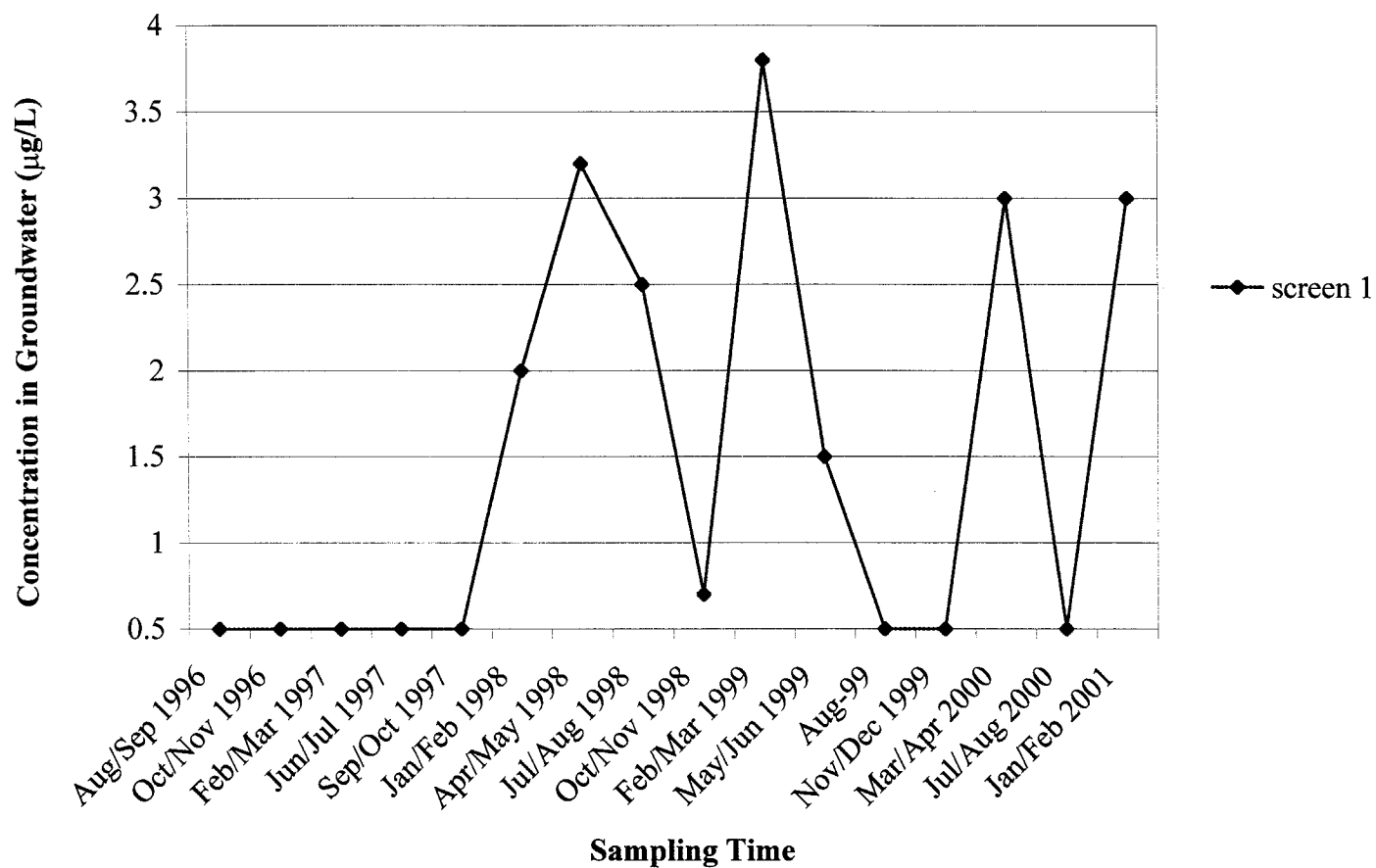
**Figure 3-27** TCE Detected at MW-5 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



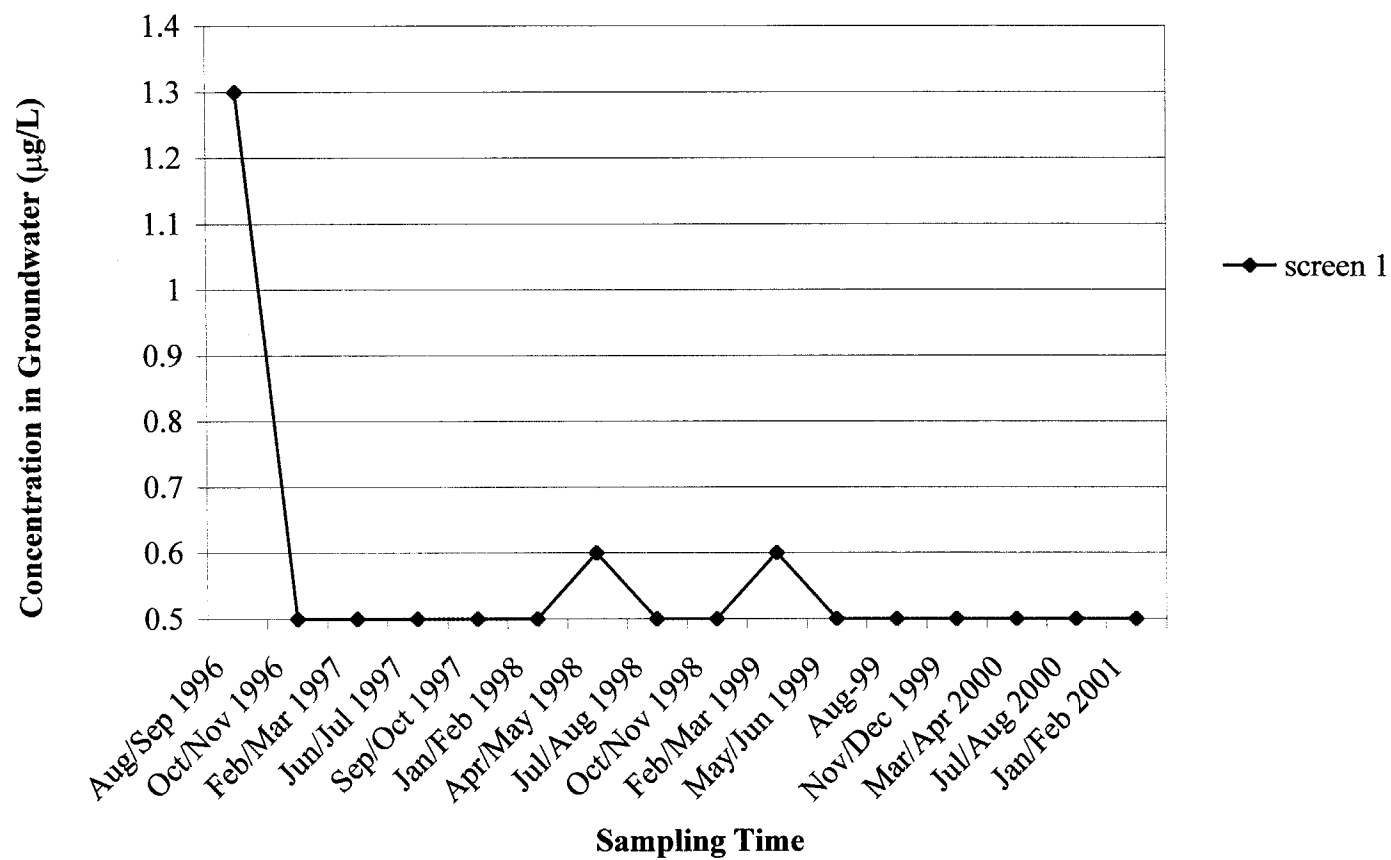
**Figure 3-28** Perchlorate Detected at MW-6 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



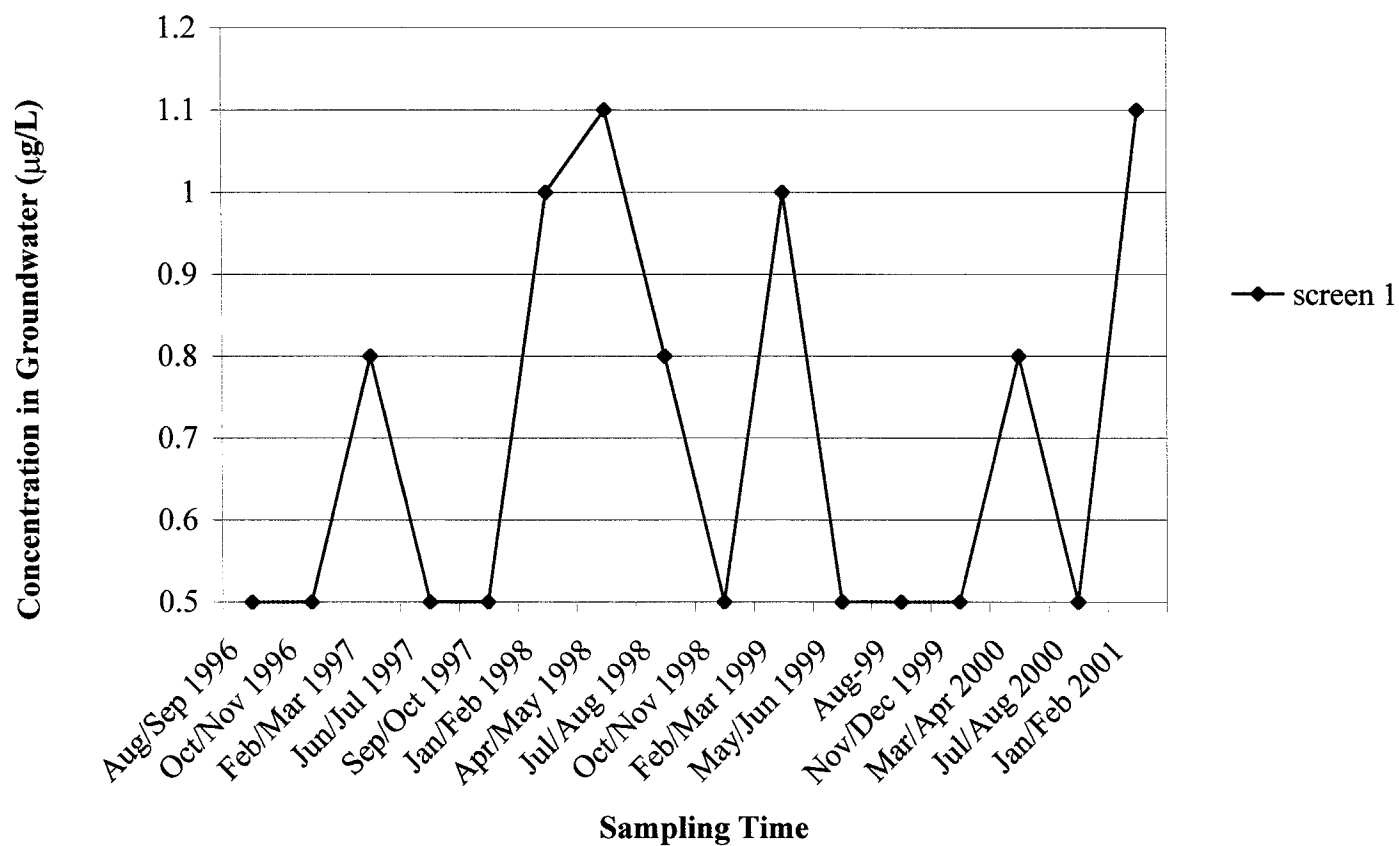
**Figure 3-29** TCE Detected at MW-6 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



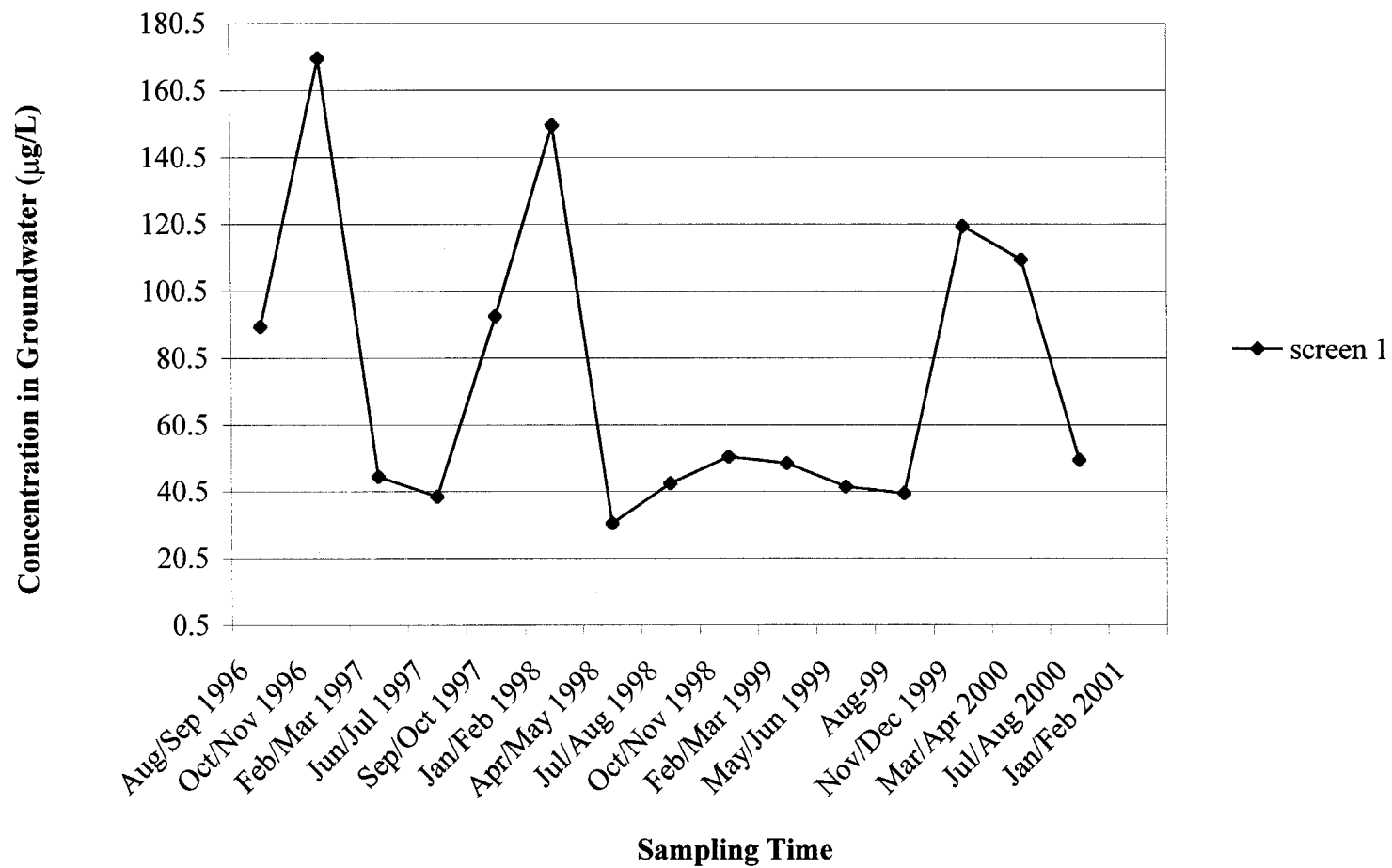
**Figure 3-30** PCE Detected at MW-6 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



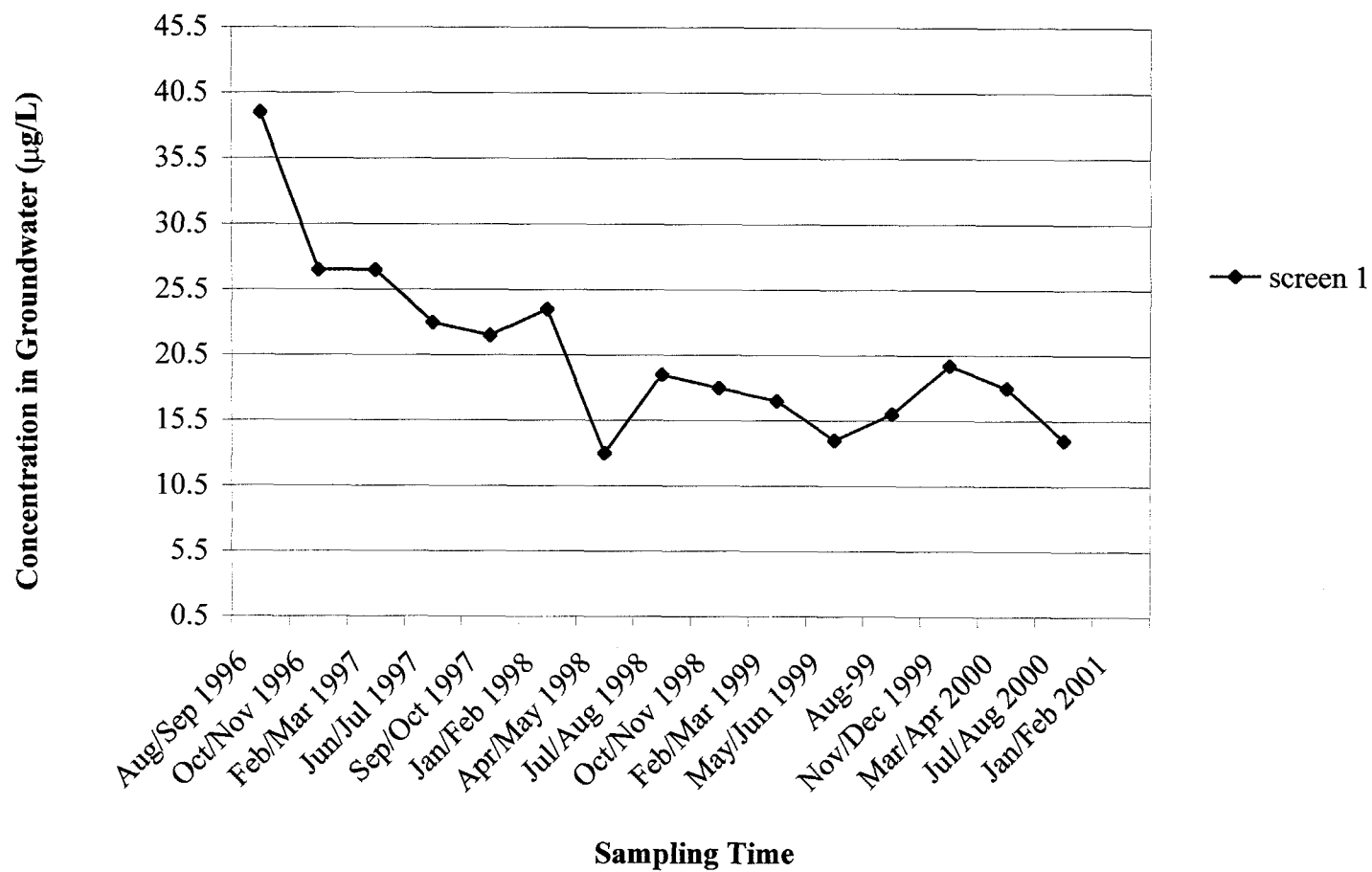
**Figure 3-31** Chloroform Detected at MW-6 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



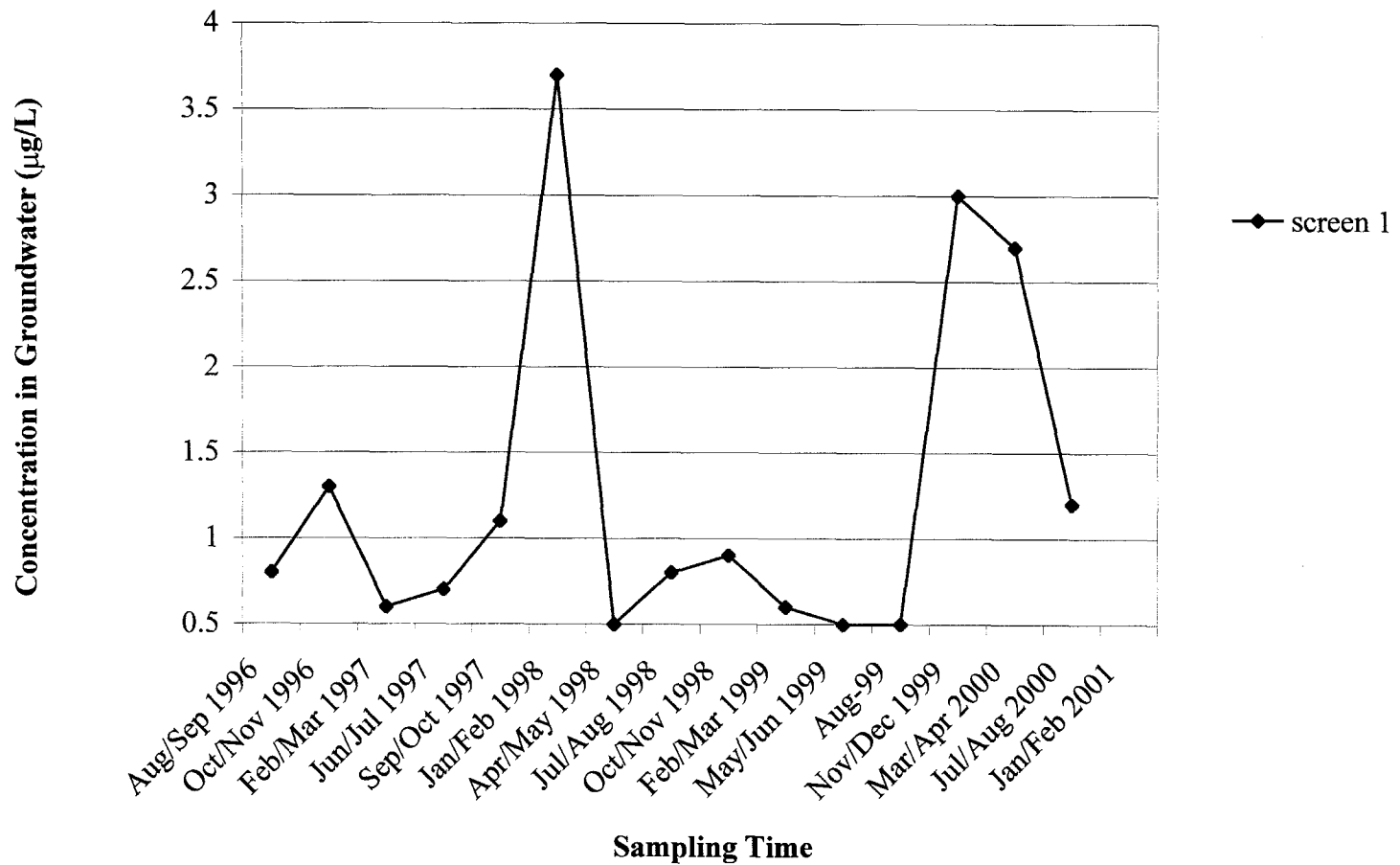
**Figure 3-32** 1,1-DCA Detected at MW-6 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



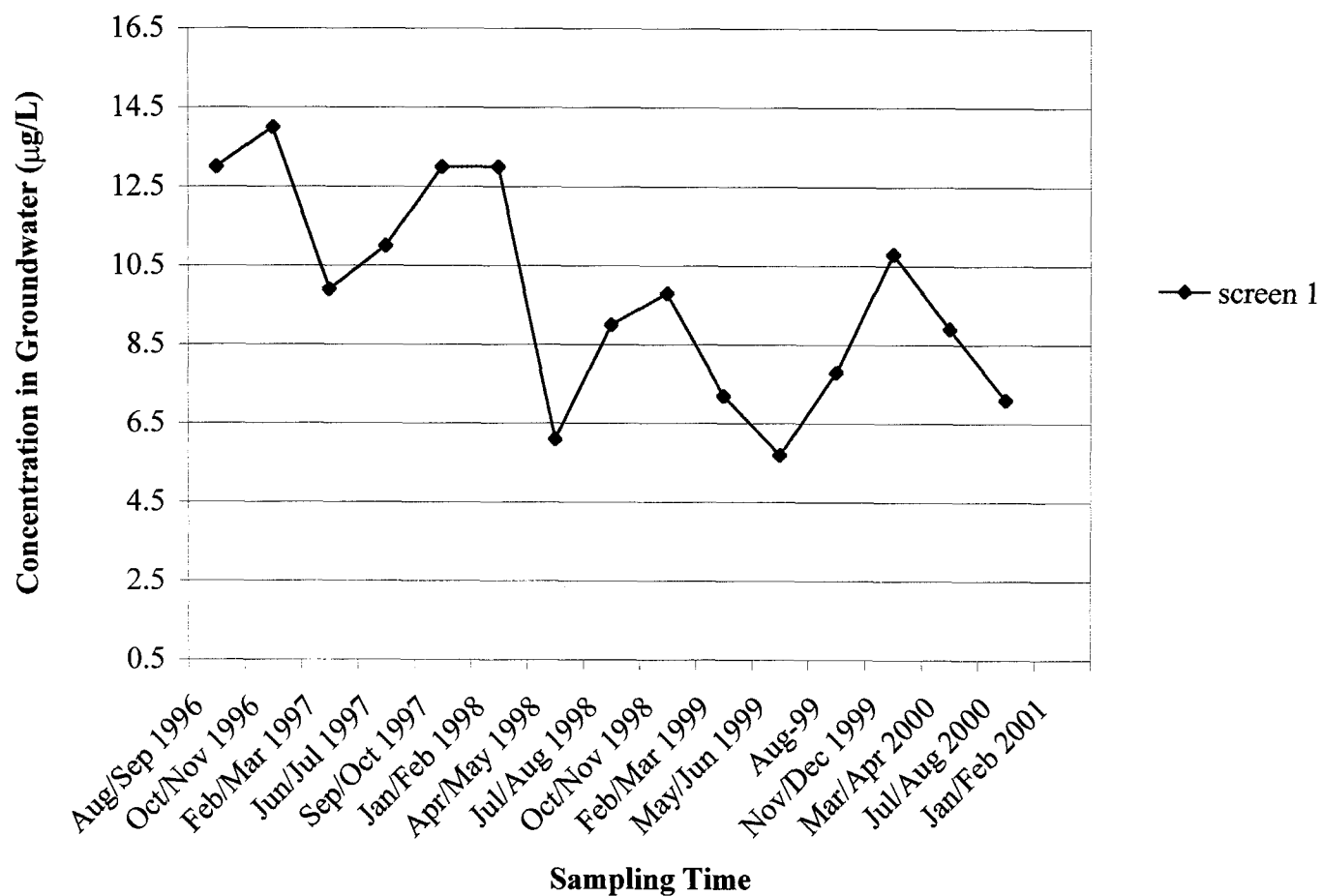
**Figure 3-33** Carbon Tetrachloride Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ ,  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



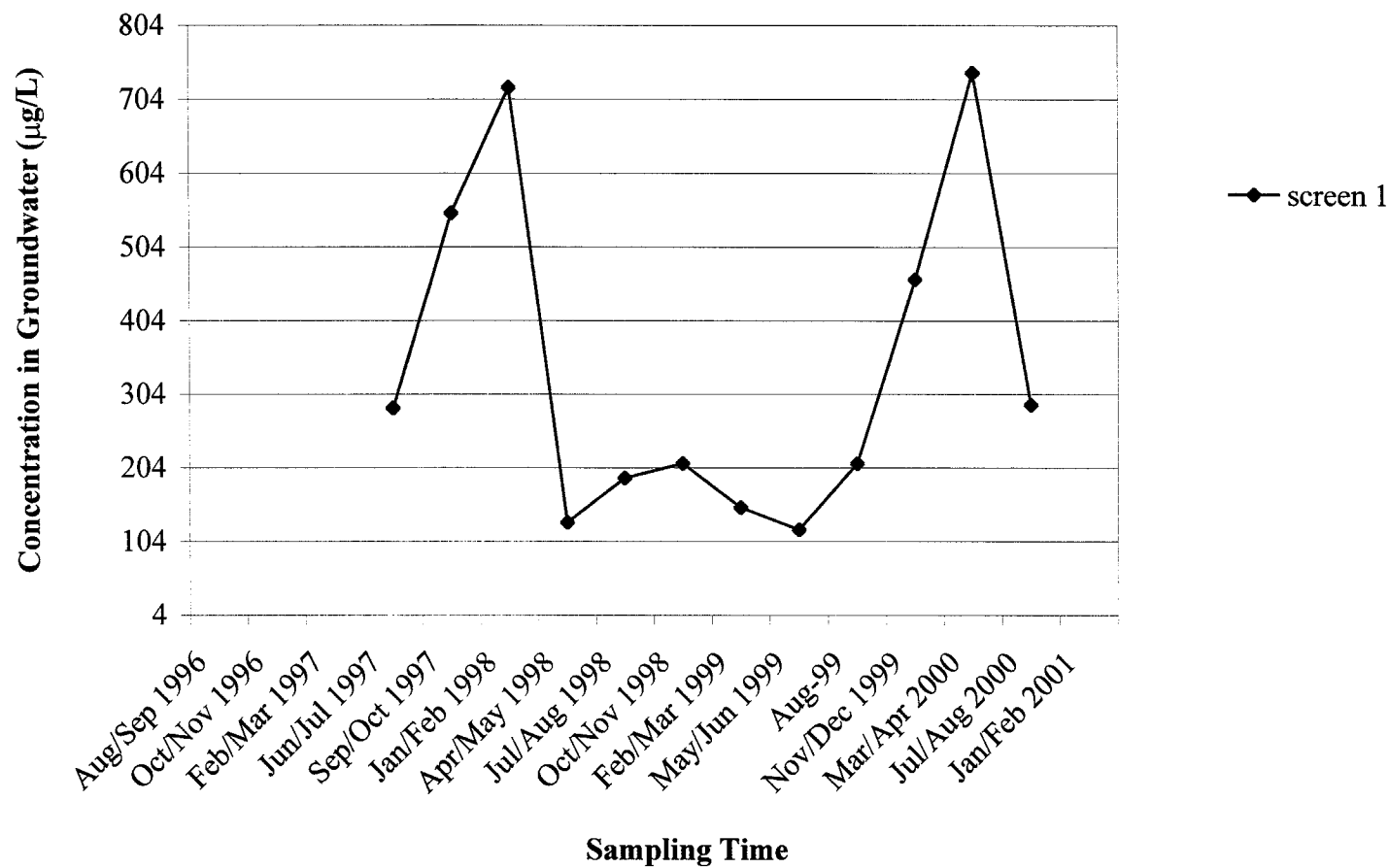
**Figure 3-34** TCE Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



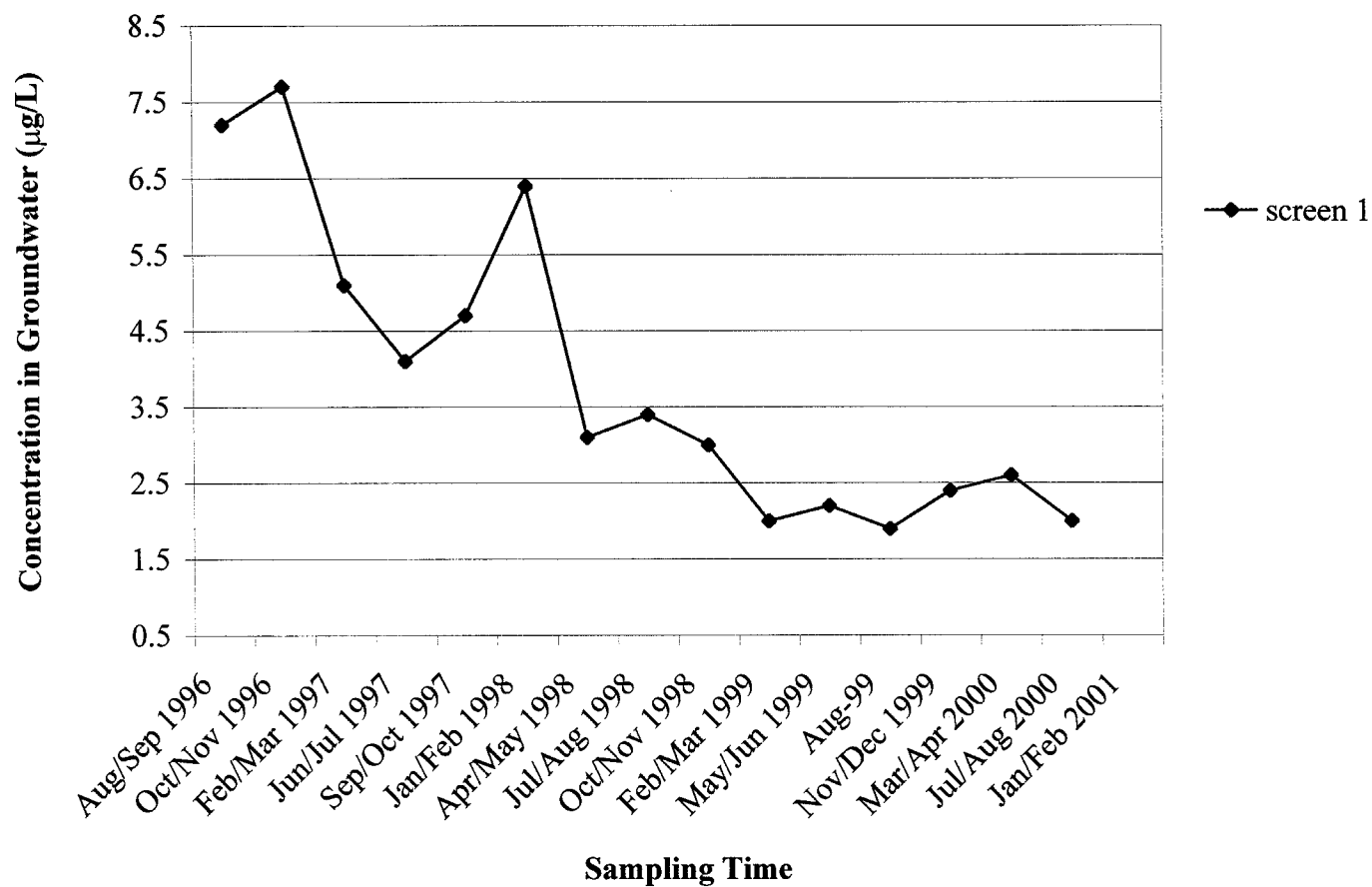
**Figure 3-35** PCE Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$   
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



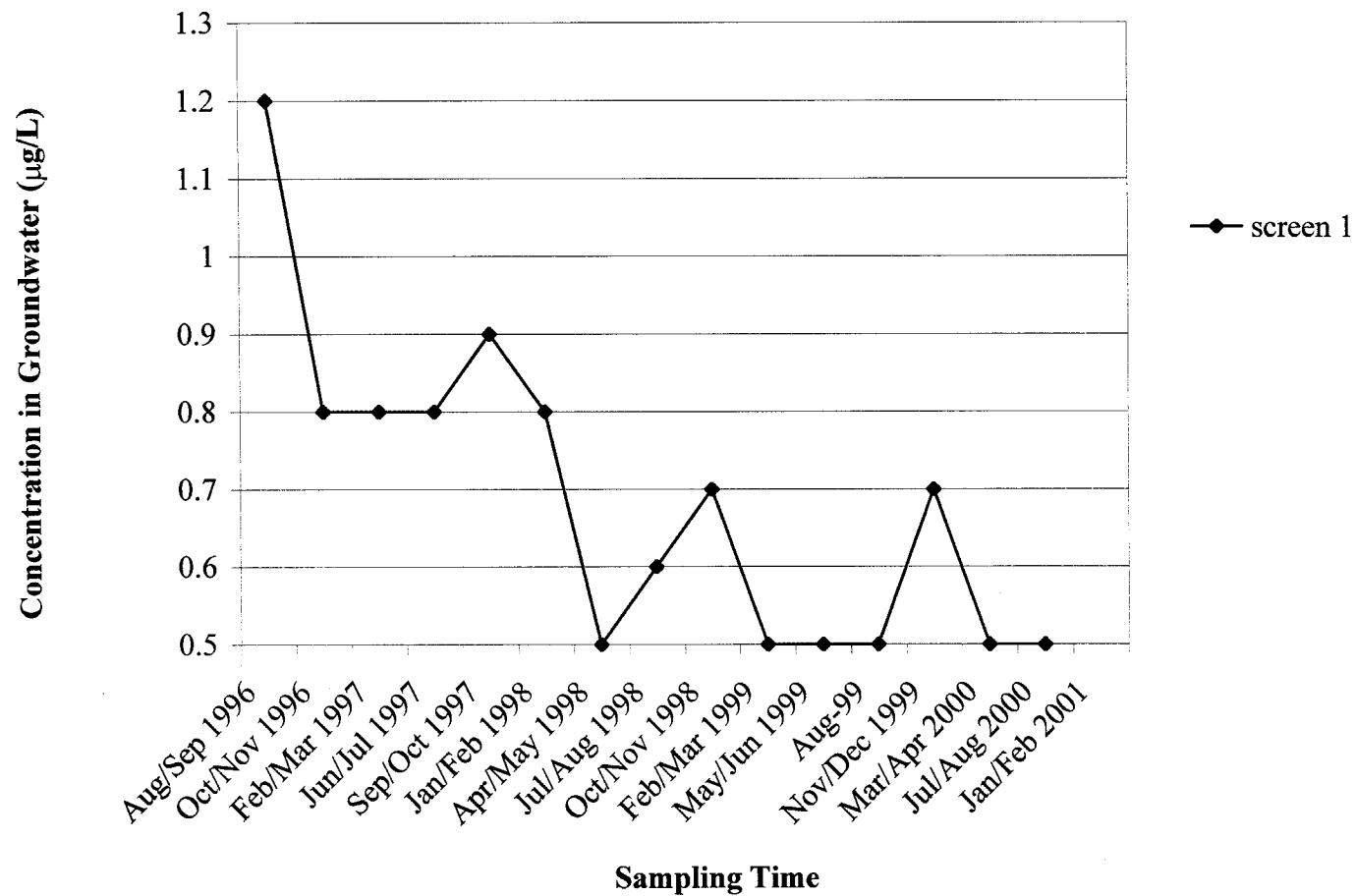
**Figure 3-36** Chloroform Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



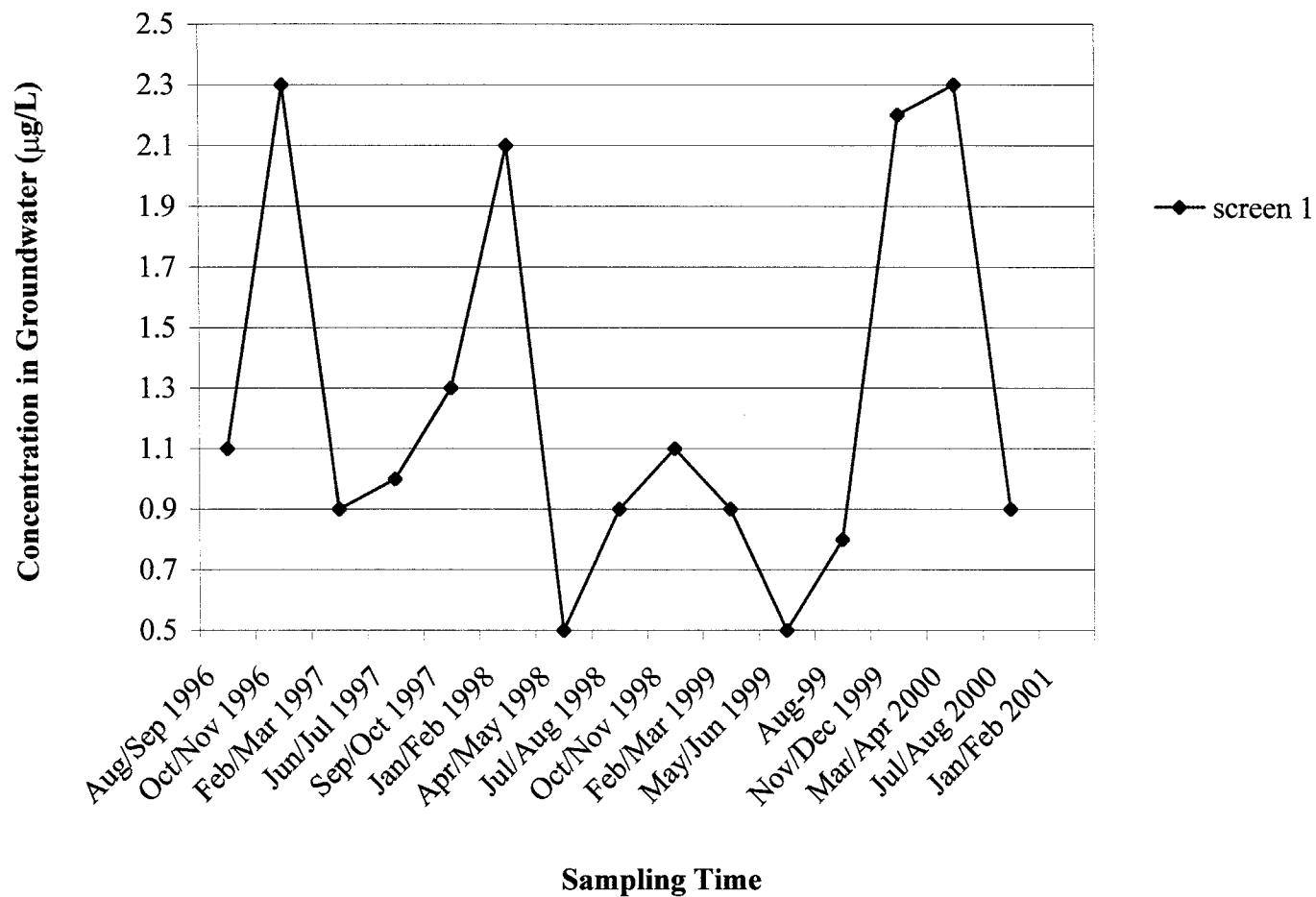
**Figure 3-37** Perchlorate Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



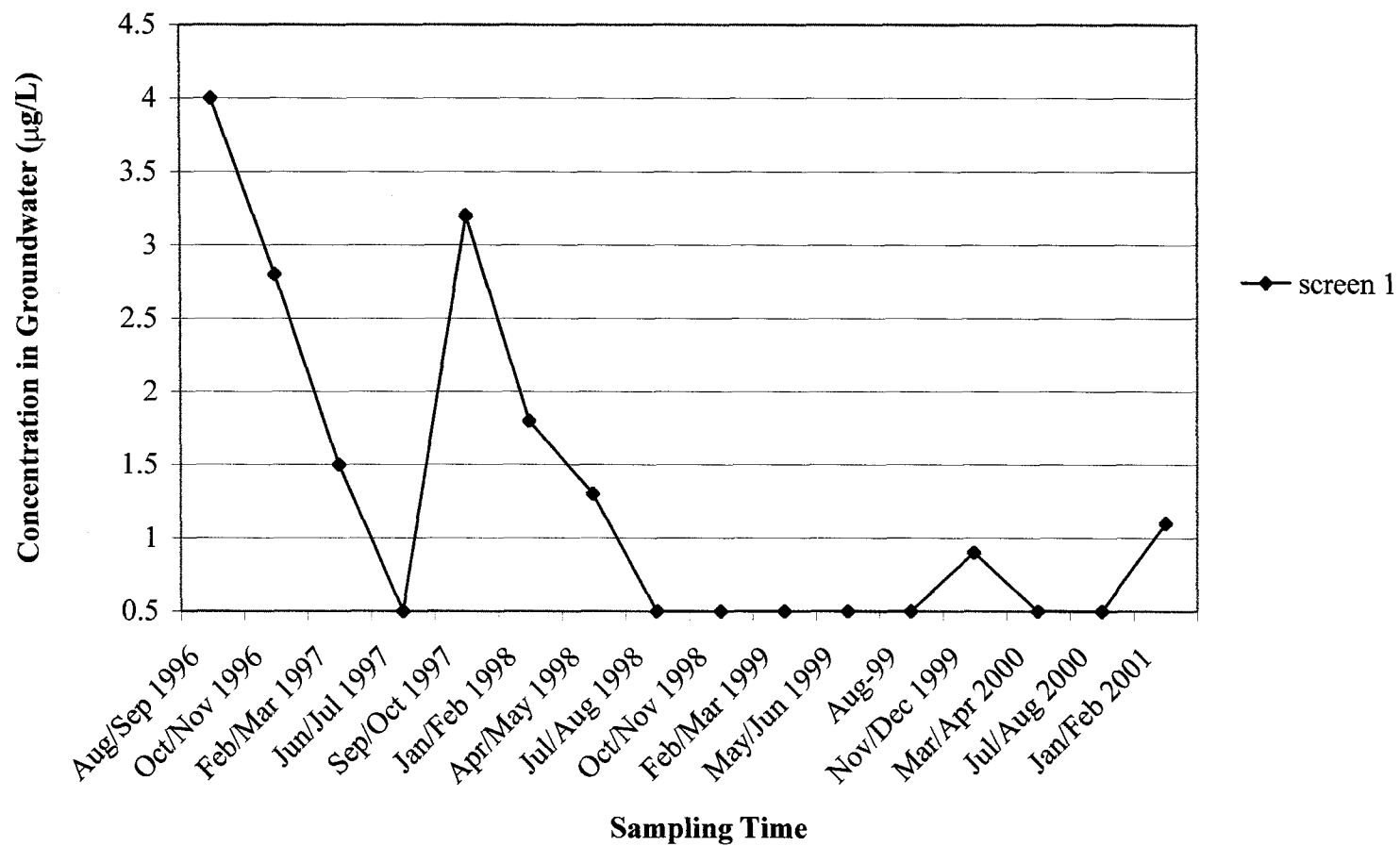
**Figure 3-38** Freon 113 Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 1,200 µg/L  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



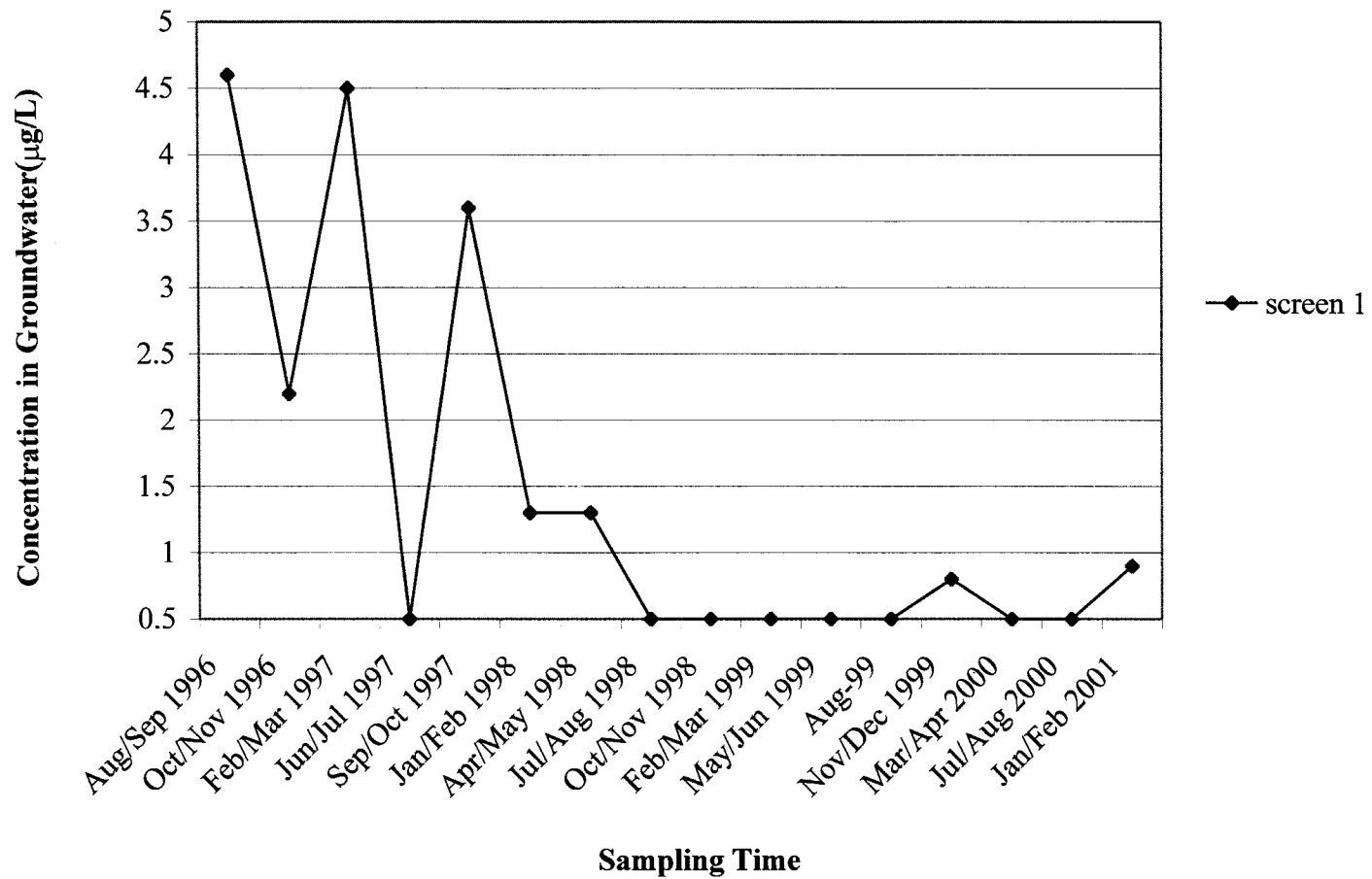
**Figure 3-39** 1,2-DCA Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 0.5 µg/L  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



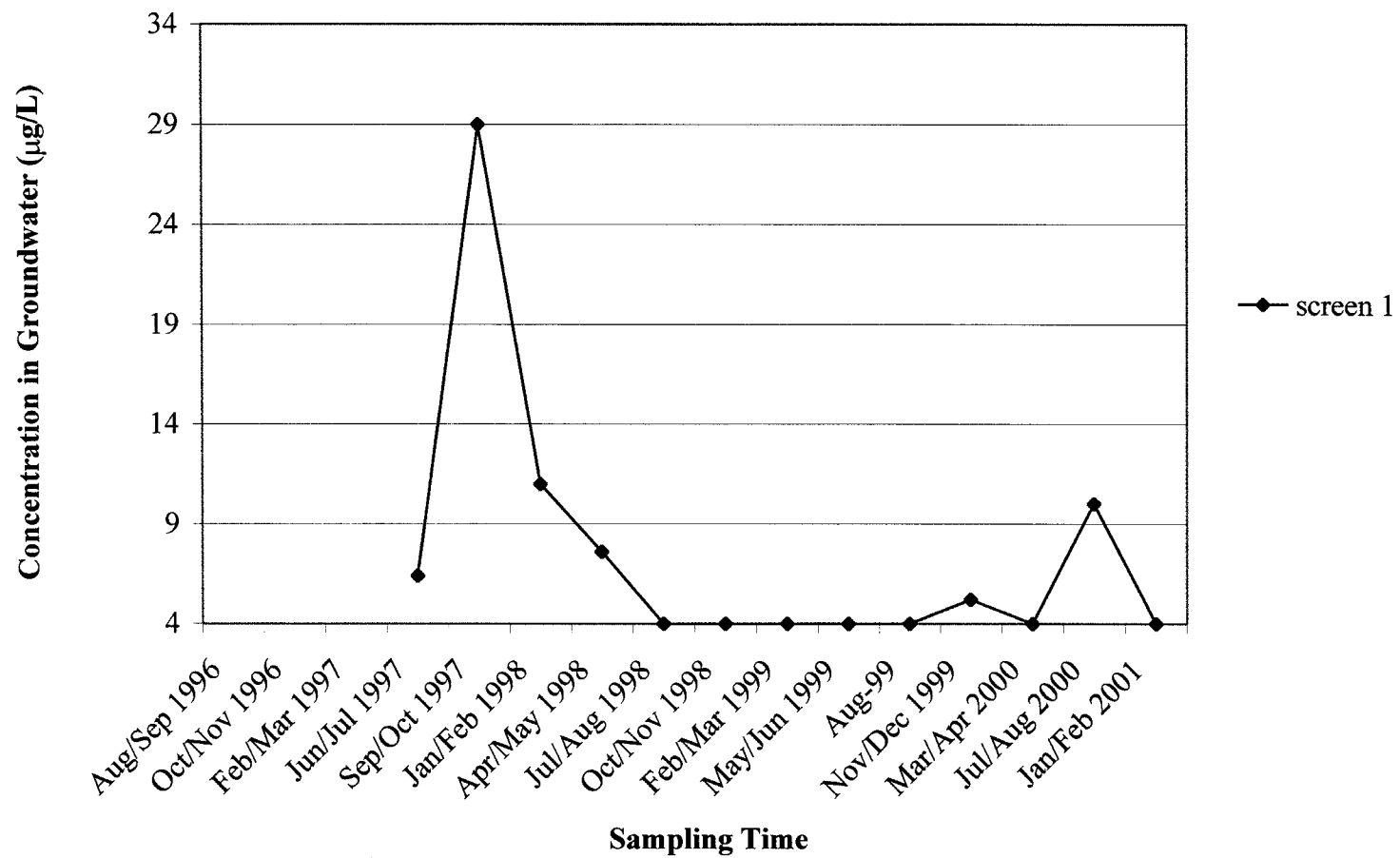
**Figure 3-40** 1,1-DCE Detected at MW-7 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 6 µg/L  
Jan/Feb 2001 not sampled, results reference US Filter Pilot Study Final Report (Apr. 2001))



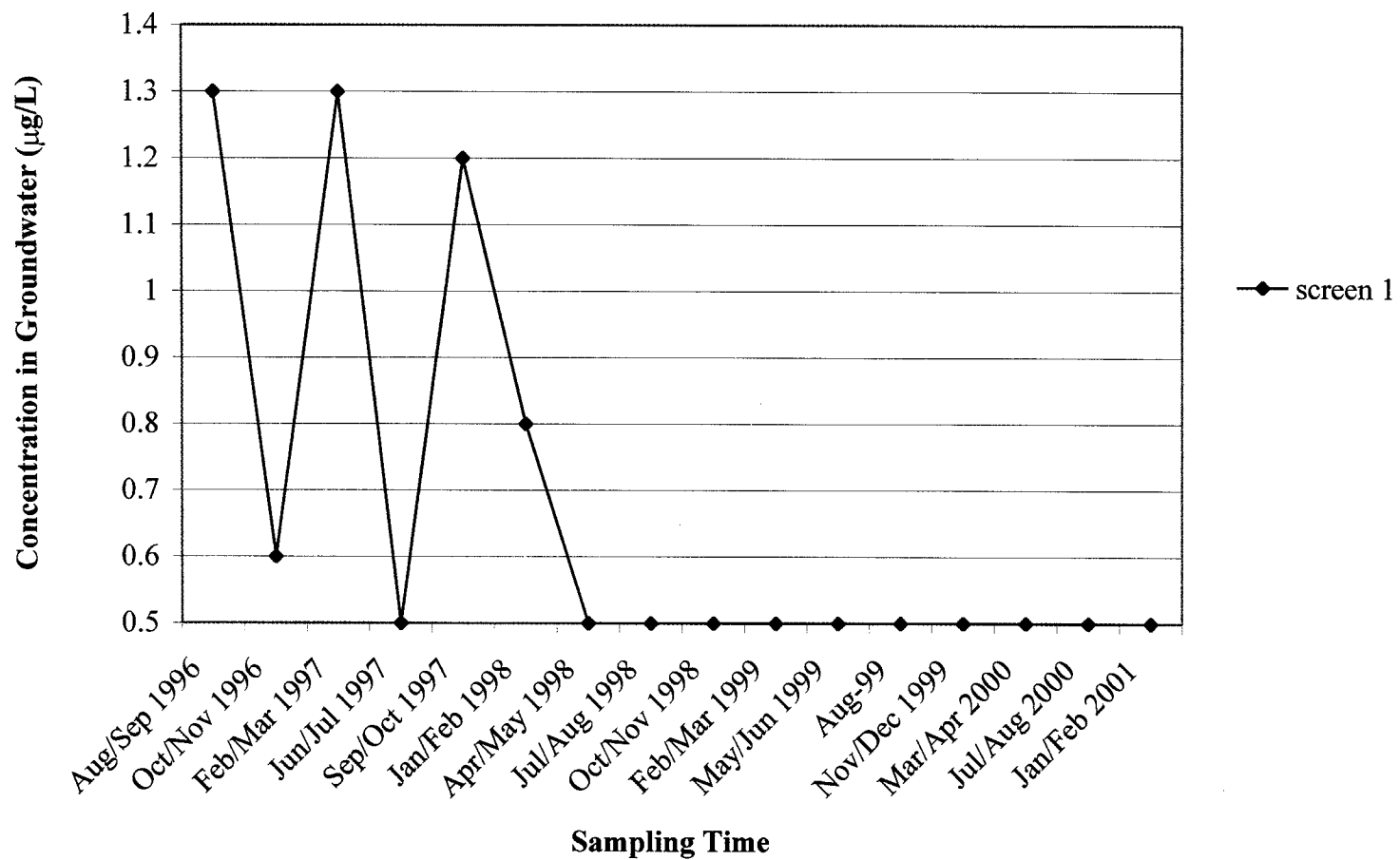
**Figure 3-41** Carbon Tetrachloride Detected at MW-8 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



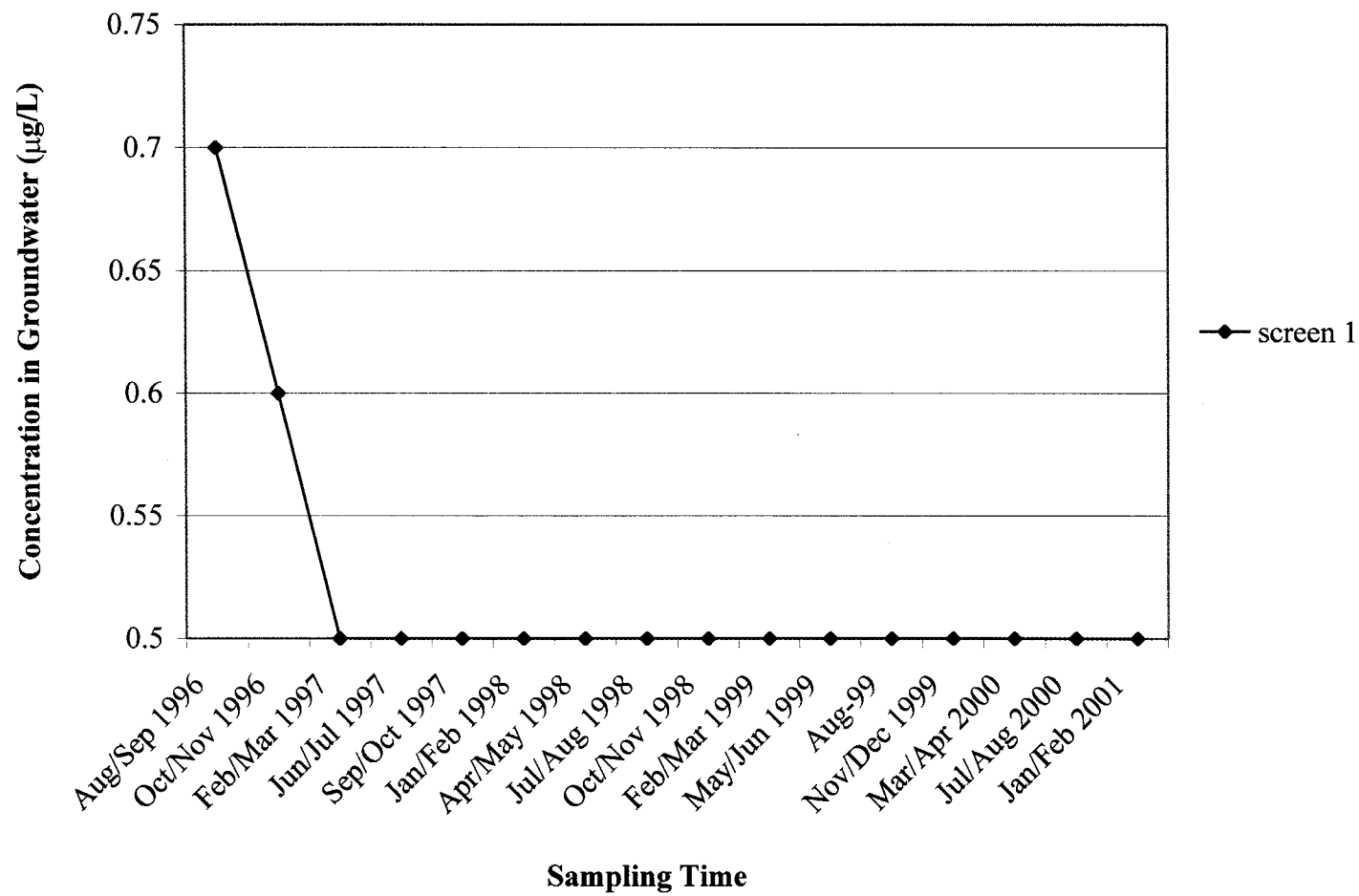
**Figure 3-42** TCE Detected at MW-8 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$ , CA MCL = 5  $\mu\text{g/L}$ )



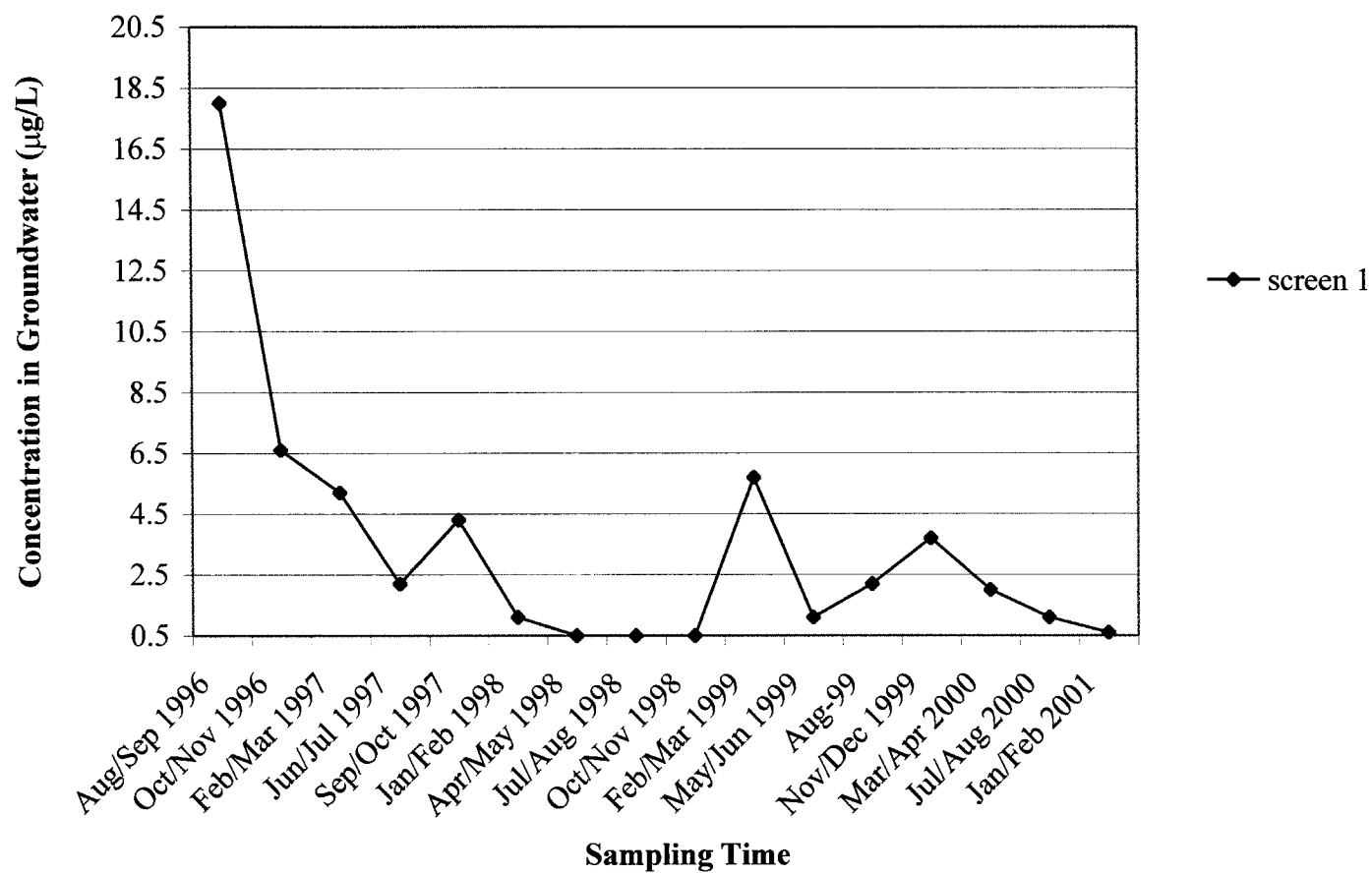
**Figure 3-43** Perchlorate Detected at MW-8 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



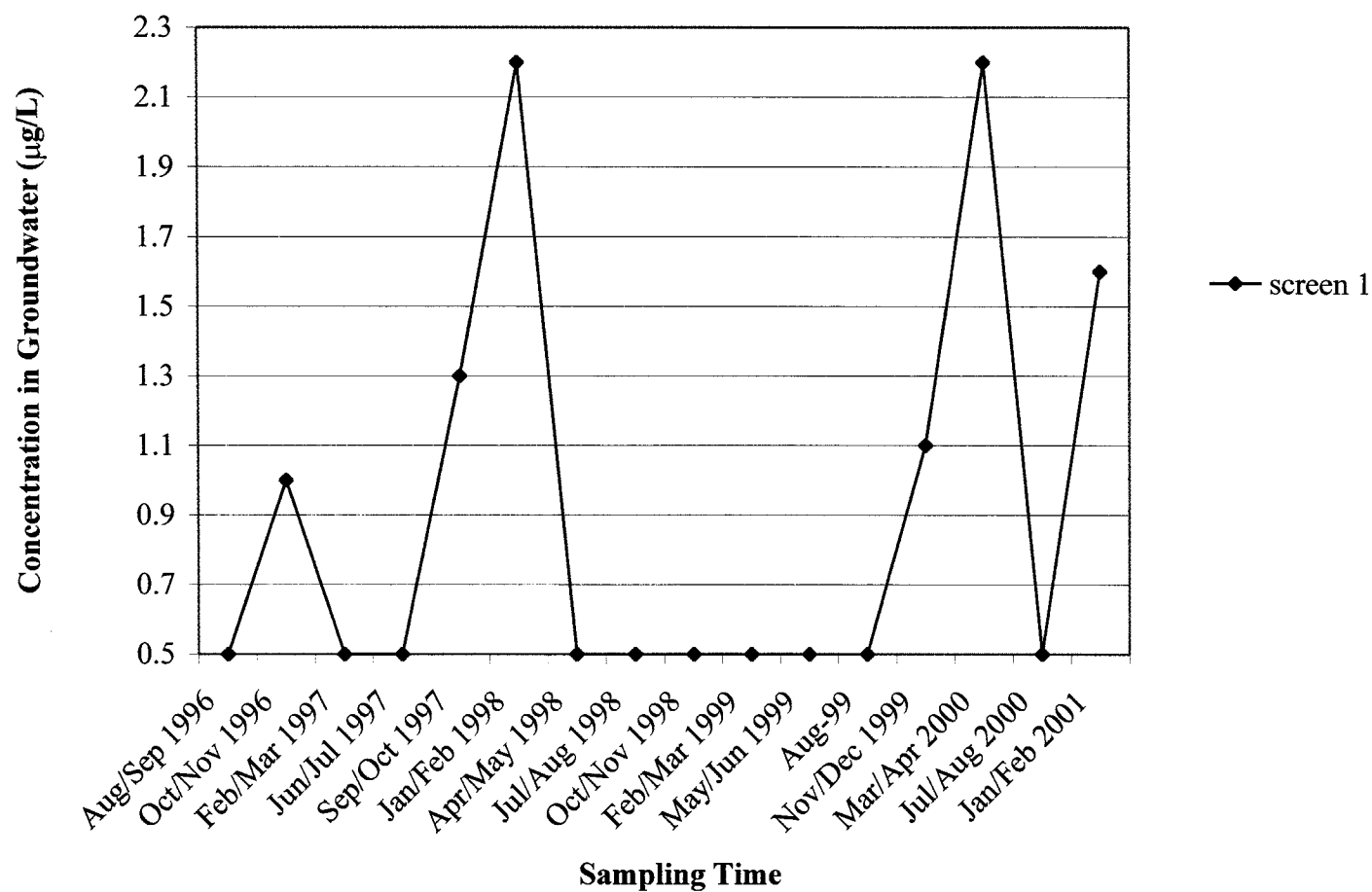
**Figure 3-44** Chloroform Detected at MW-8 from Aug/Sep1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



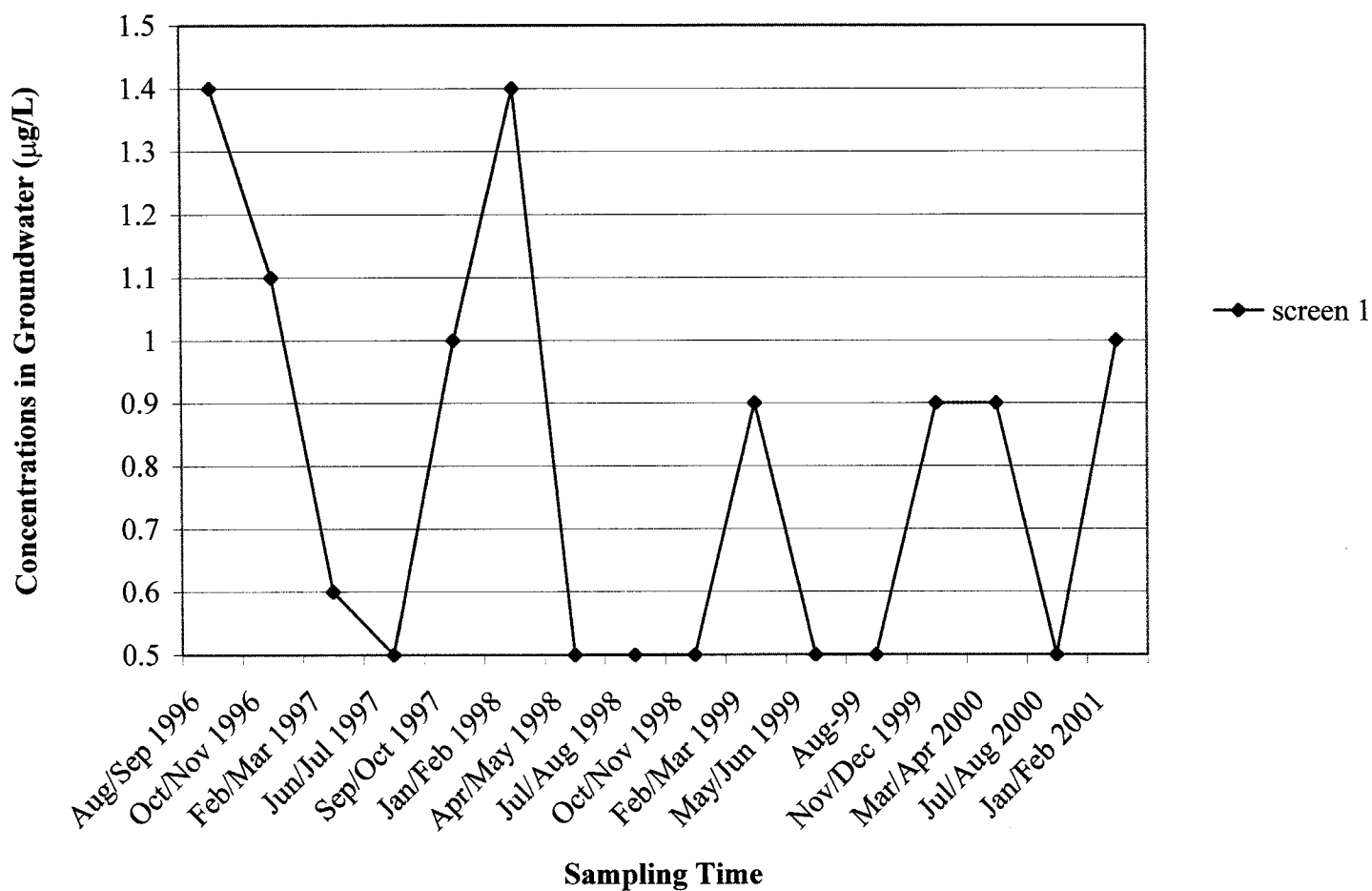
**Figure 3-45** Carbon Tetrachloride Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



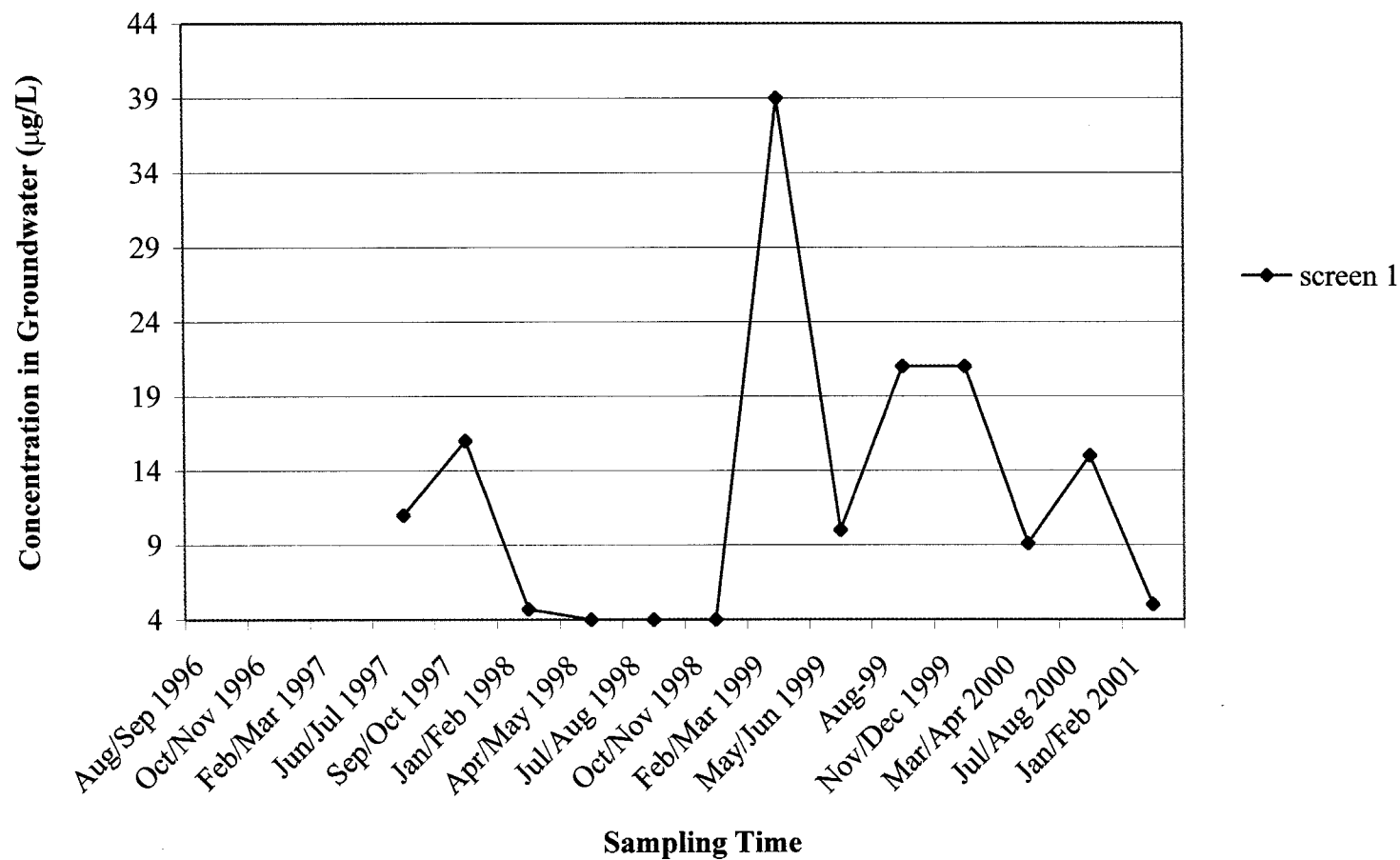
**Figure 3-46** TCE Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



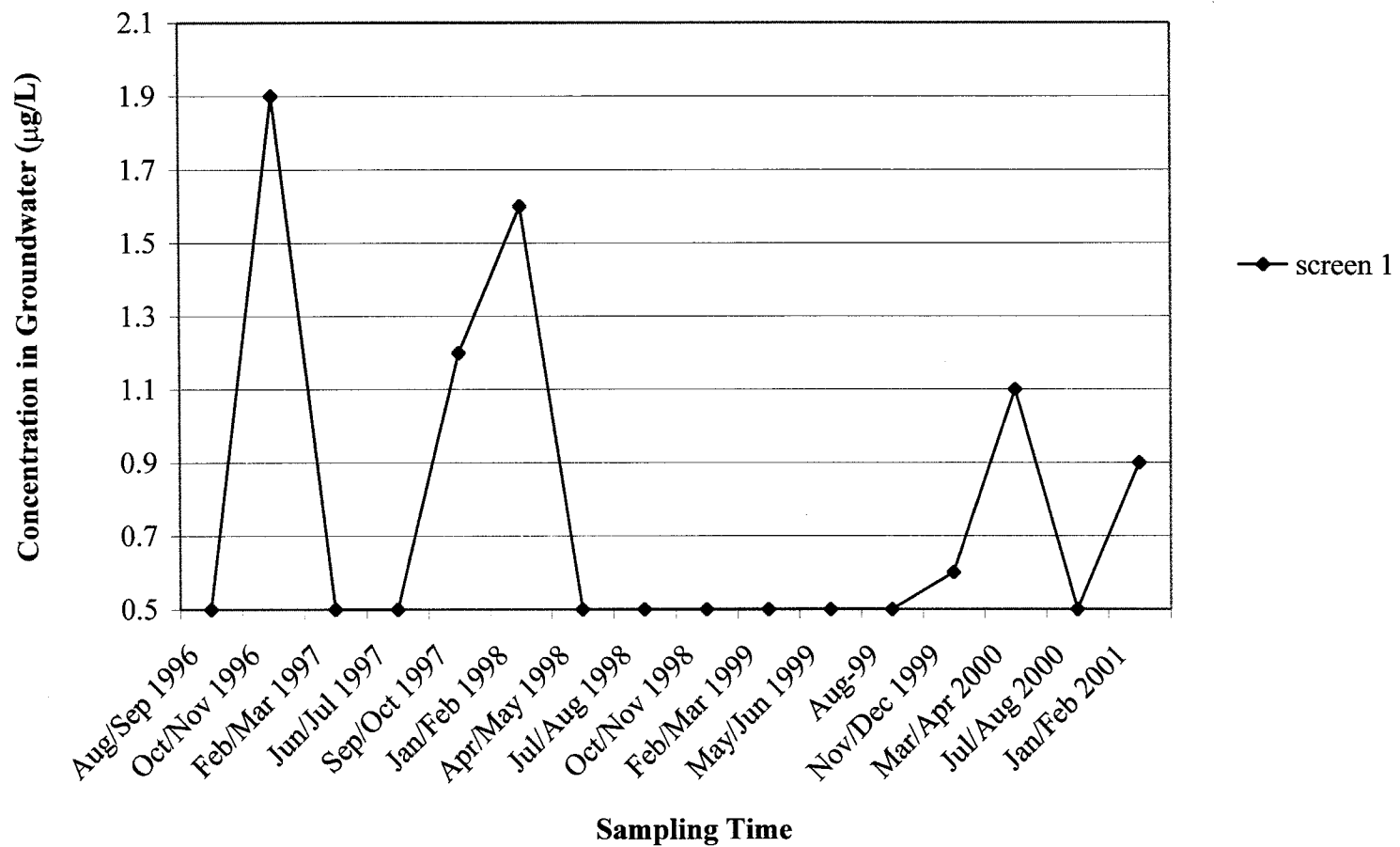
**Figure 3-47** PCE Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$ , CA MCL = 5  $\mu\text{g/L}$ )



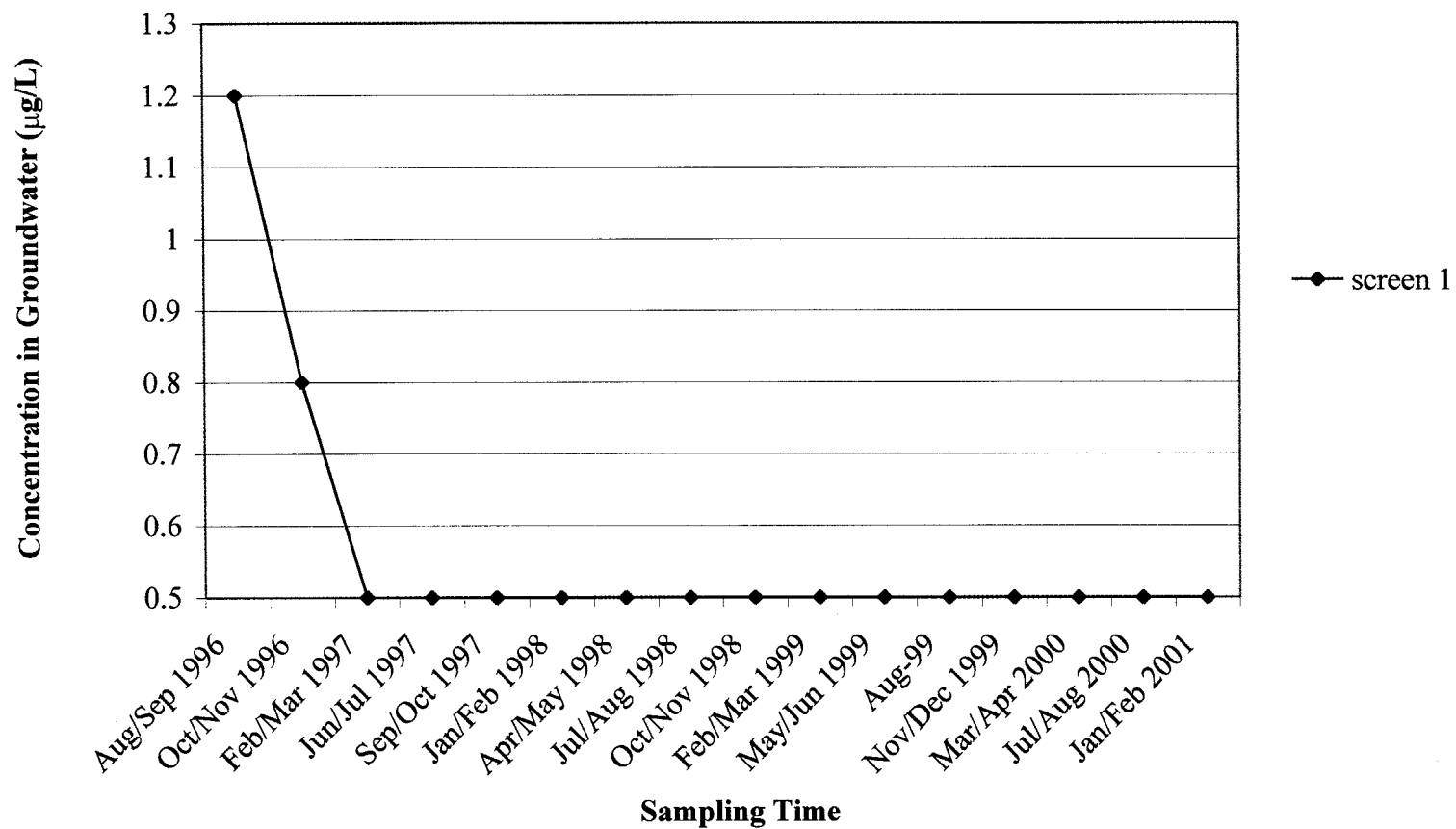
**Figure 3-48** Chloroform Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$ , CA MCL = 100  $\mu\text{g/L}$ )



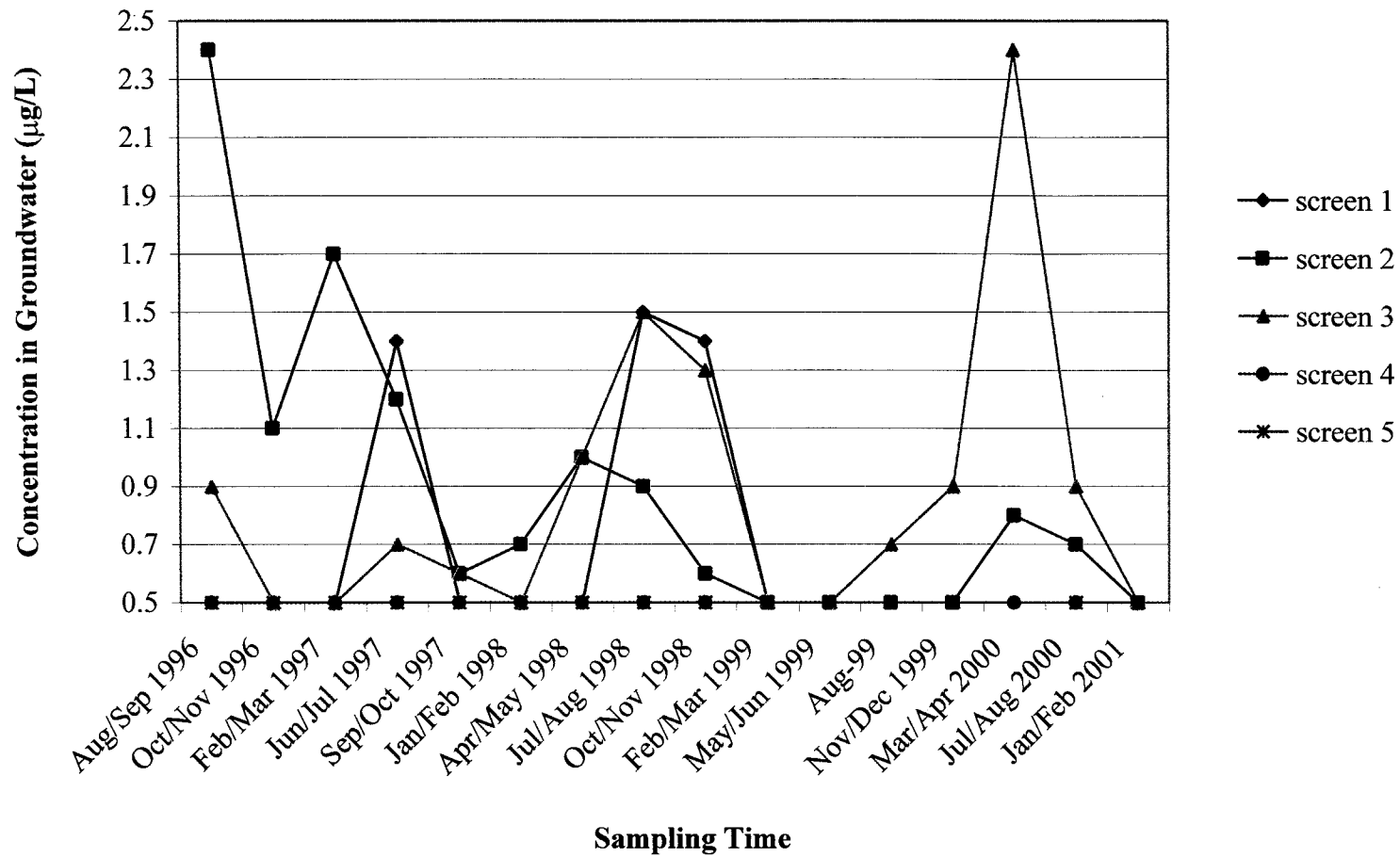
**Figure 3-49** Perchlorate Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



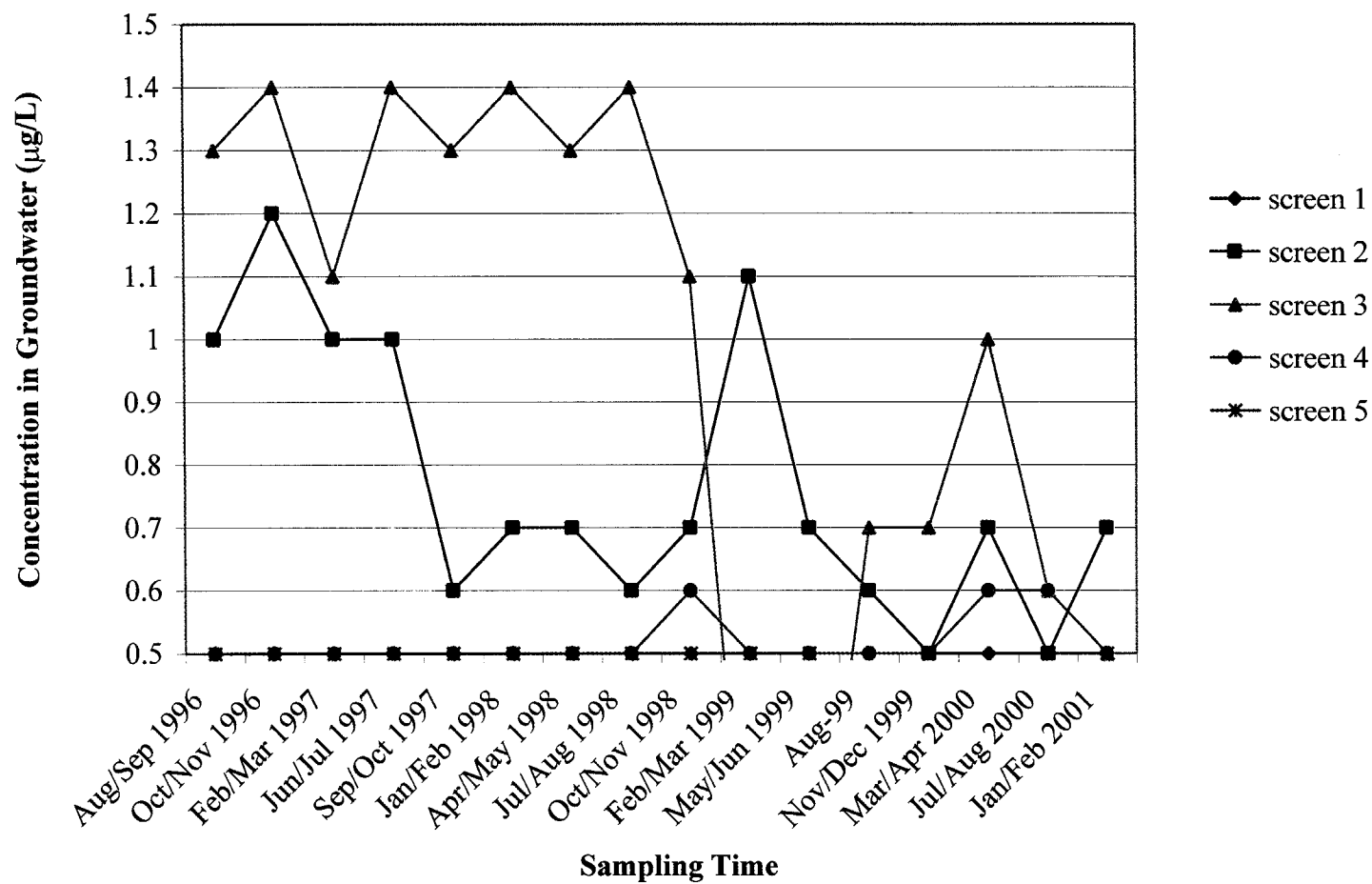
**Figure 3-50** 1,1-DCA Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



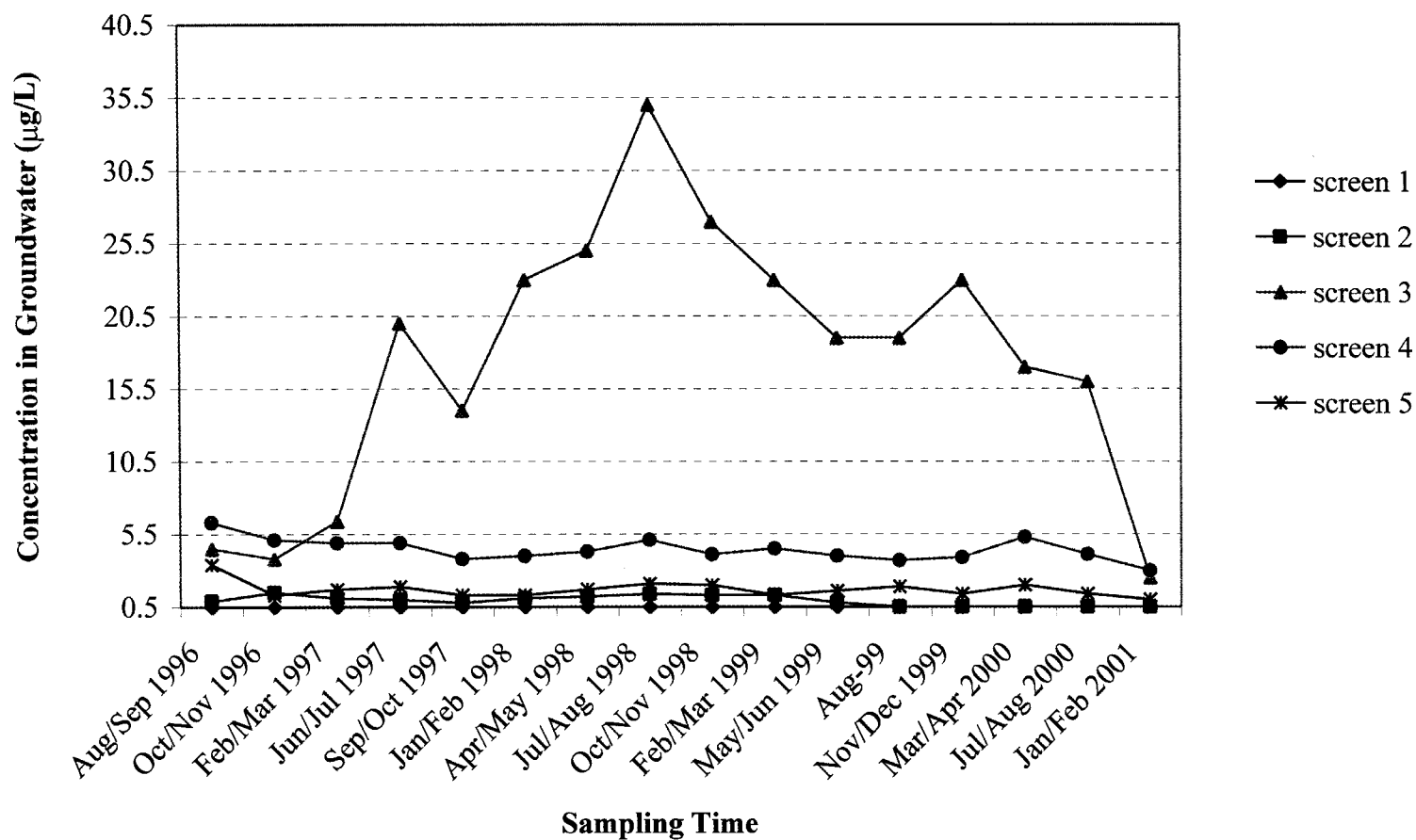
**Figure 3-51** Freon 113 Detected at MW-10 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 1,200 µg/L)



**Figure 3-52** Carbon Tetrachloride Detected at MW-11 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$ , CA MCL = 0.5  $\mu\text{g/L}$ )

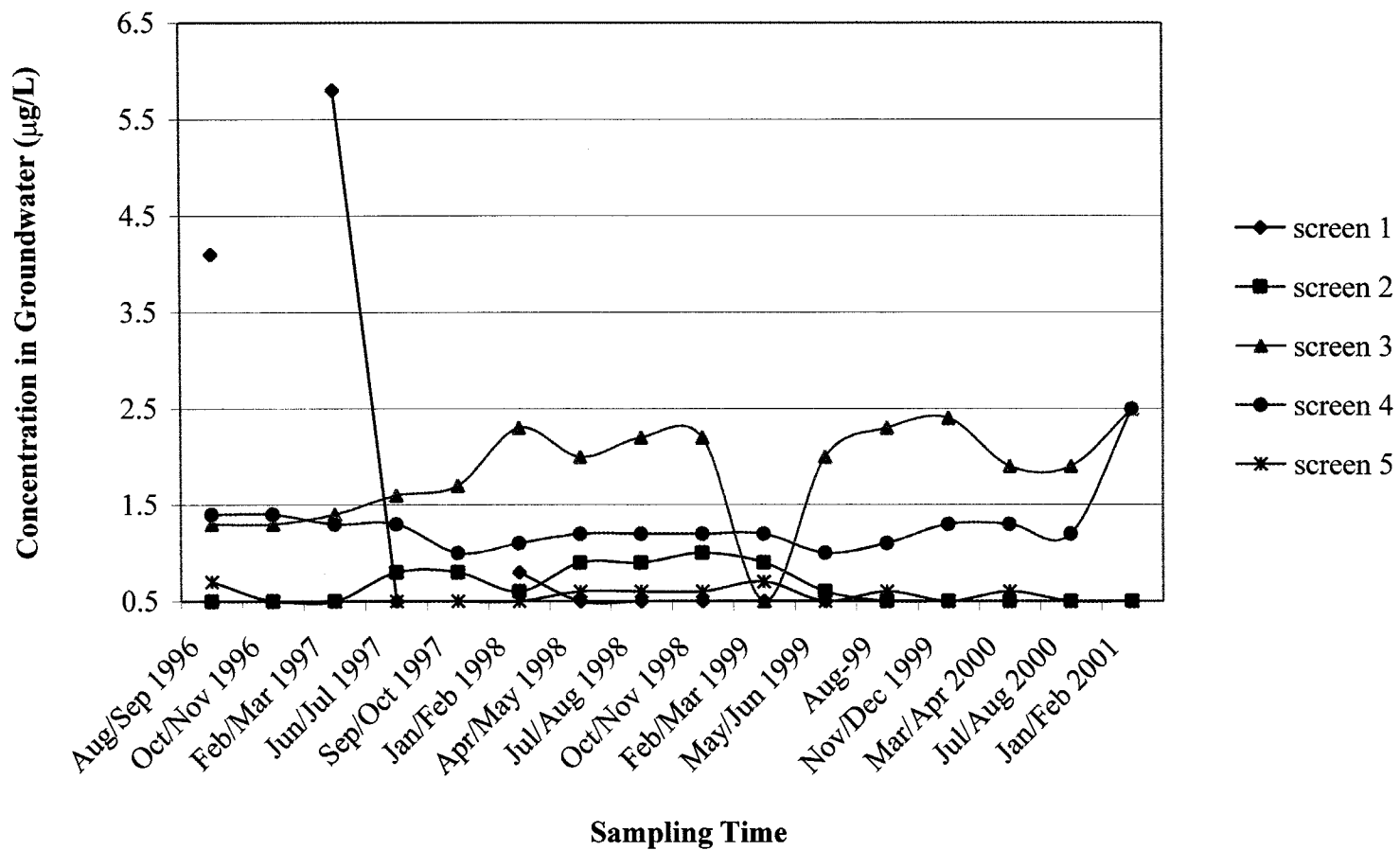


**Figure 3-53** Chloroform Detected at MW-11 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



**Figure 3-54 Carbon Tetrachloride Detected at MW-12 from Aug/Sep 1996 to Jan/Feb 2001**

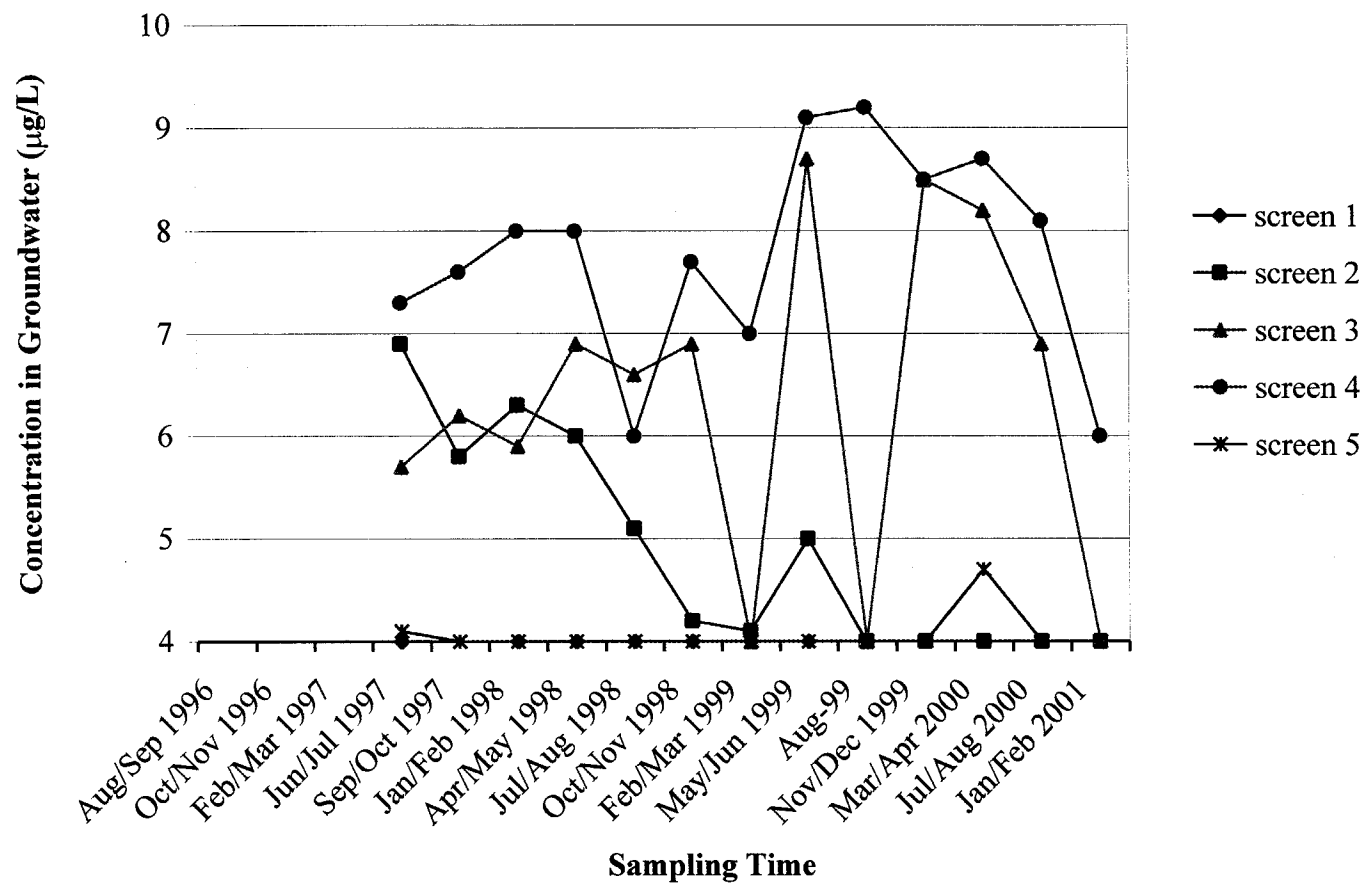
(Laboratory Practical Quantitation Limit = 0.5 µg/L  
except for Jan/Feb 2001, screen 3 = 2.5 µg/L. CA MCL = 0.5 µg/L)



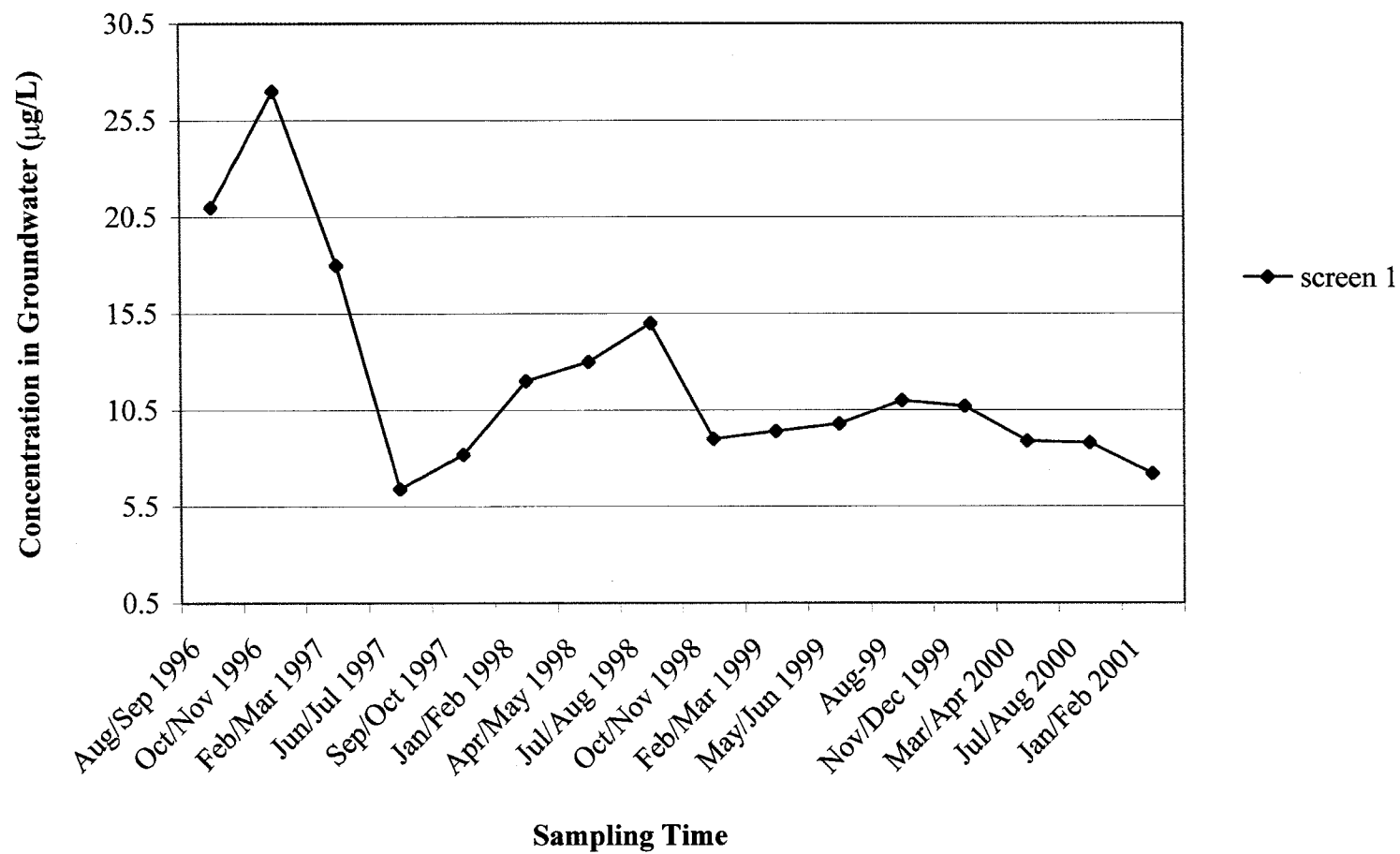
**Figure 3-55** Chloroform Detected at MW-12 from Aug/Sep 1996 to Jan/Feb 2001

(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$

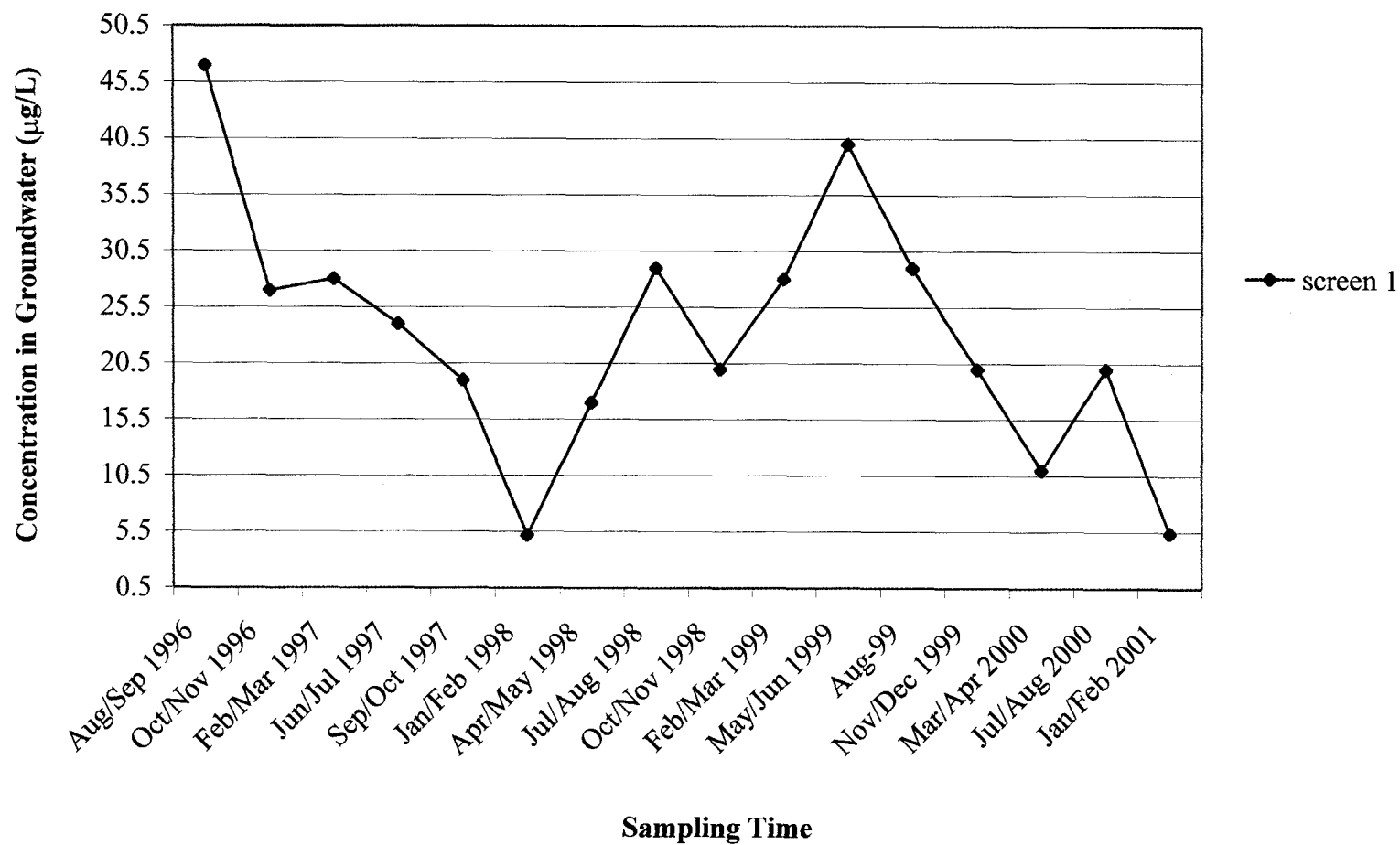
except for Jan/Feb 2001, screen 3 and 4 =  $2.5 \mu\text{g/L}$ . CA MCL =  $100 \mu\text{g/L}$ )



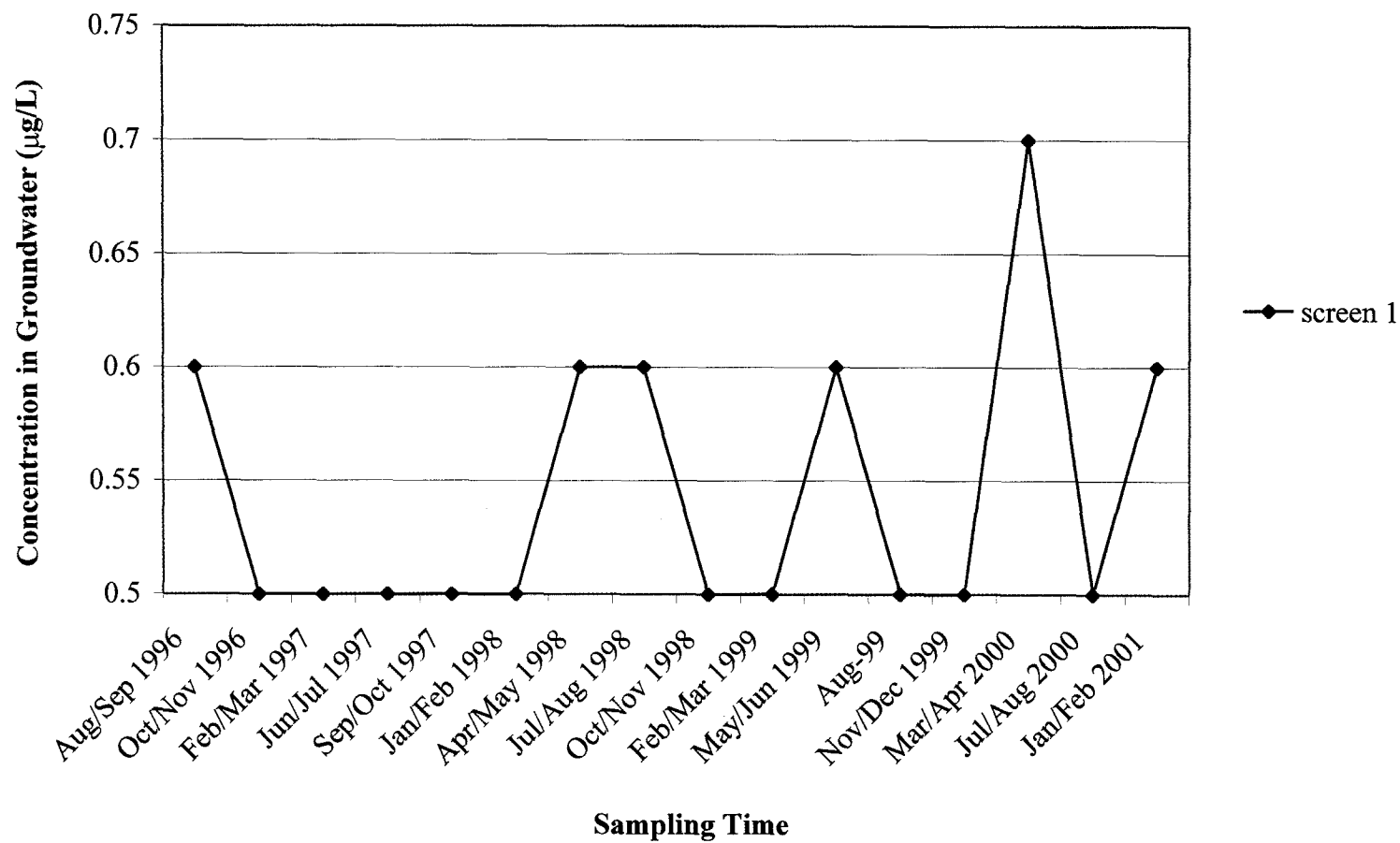
**Figure 3-56** Perchlorate Detected at MW-12 from Aug/Sep1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $4 \mu\text{g/L}$ , CA IAL =  $18 \mu\text{g/L}$ )



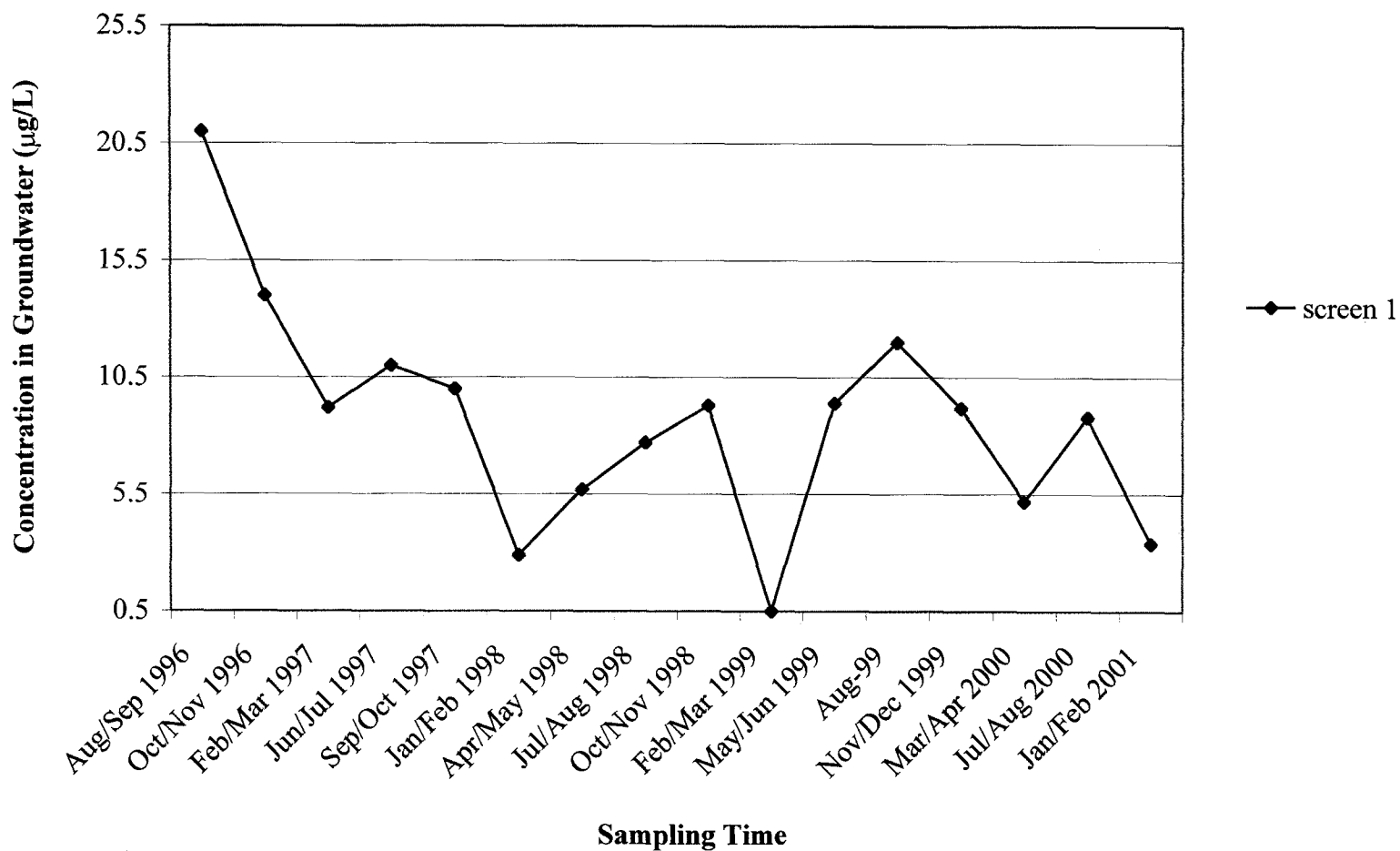
**Figure 3-57** Carbon Tetrachloride Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



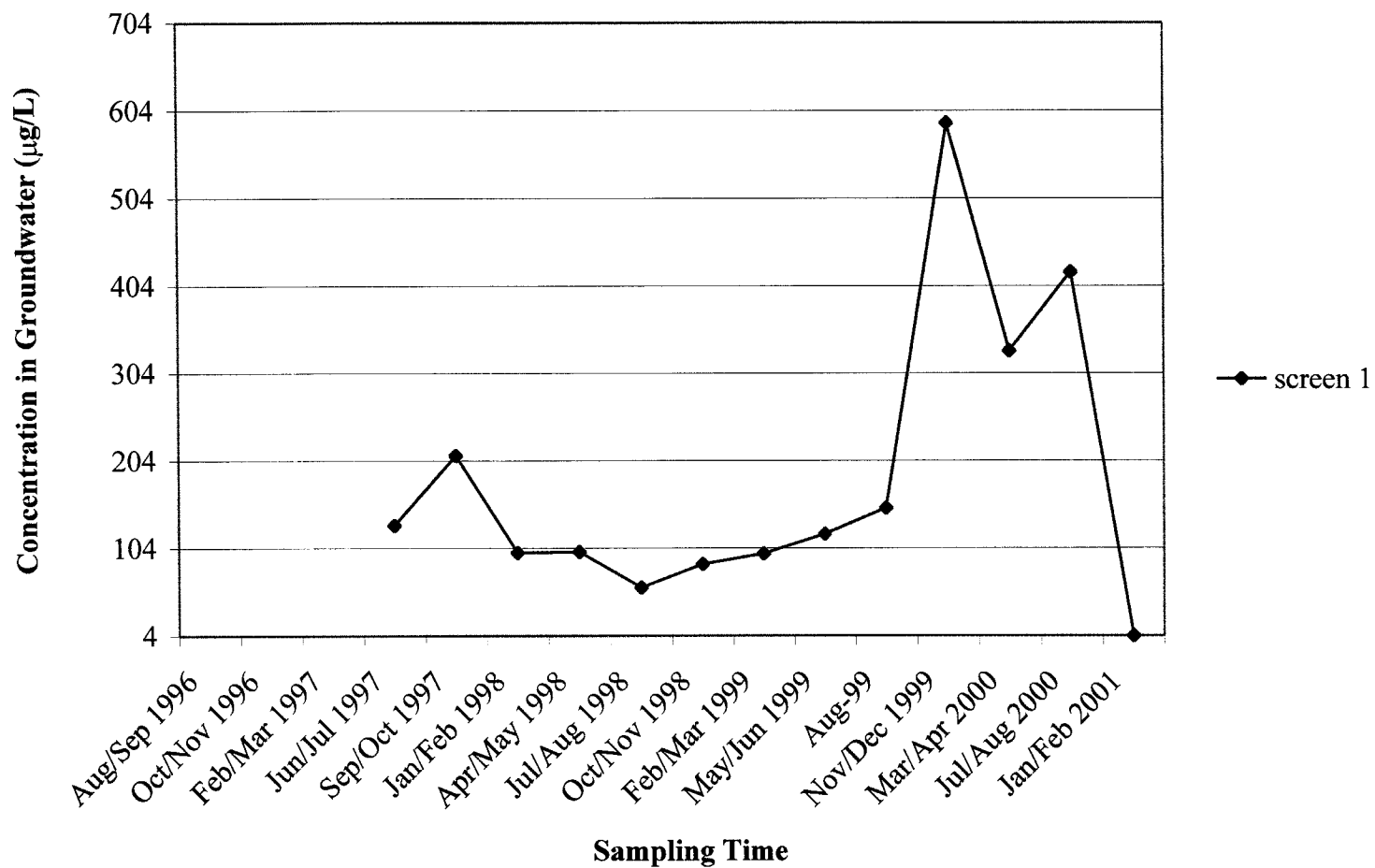
**Figure 3-58** TCE Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



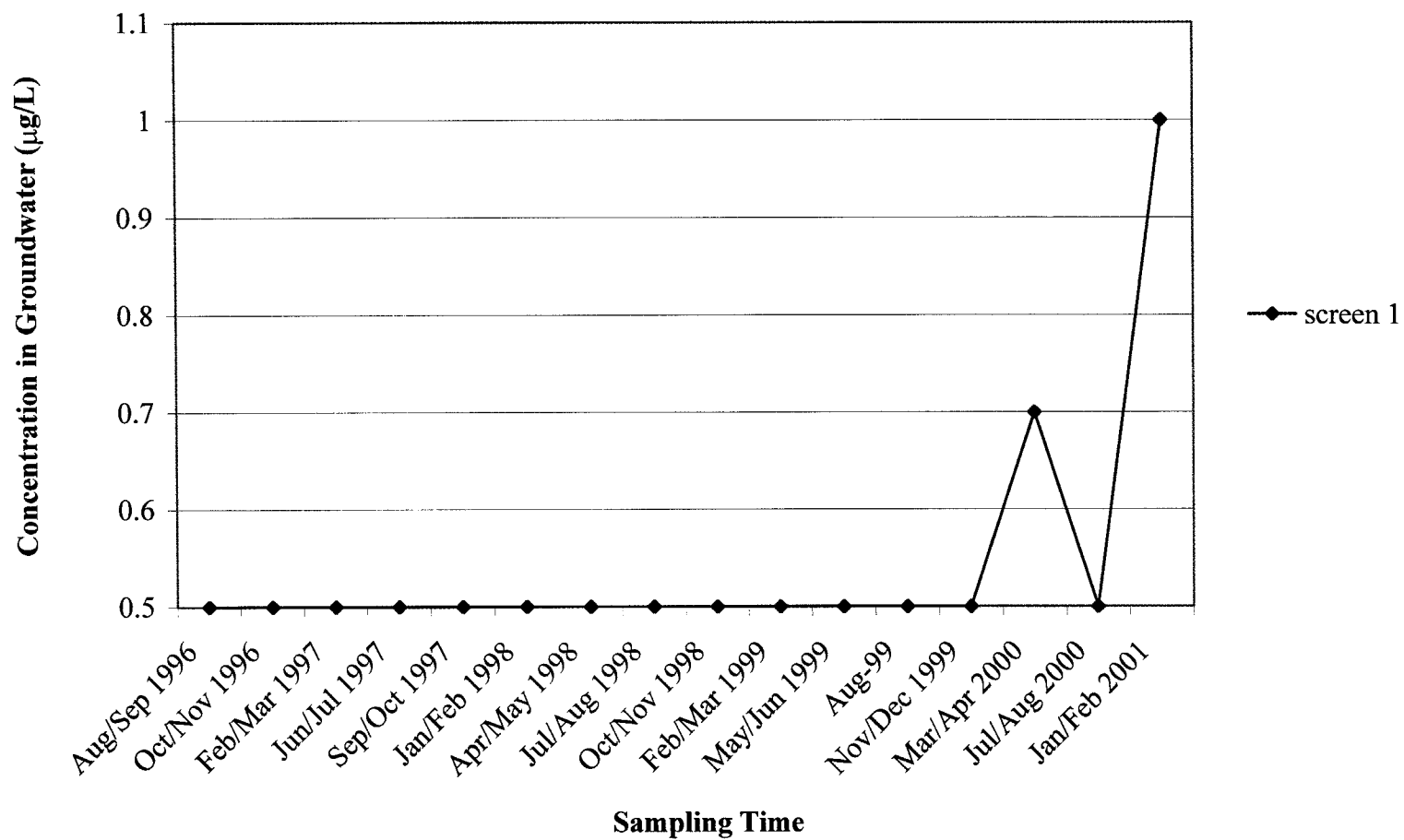
**Figure 3-59** PCE Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



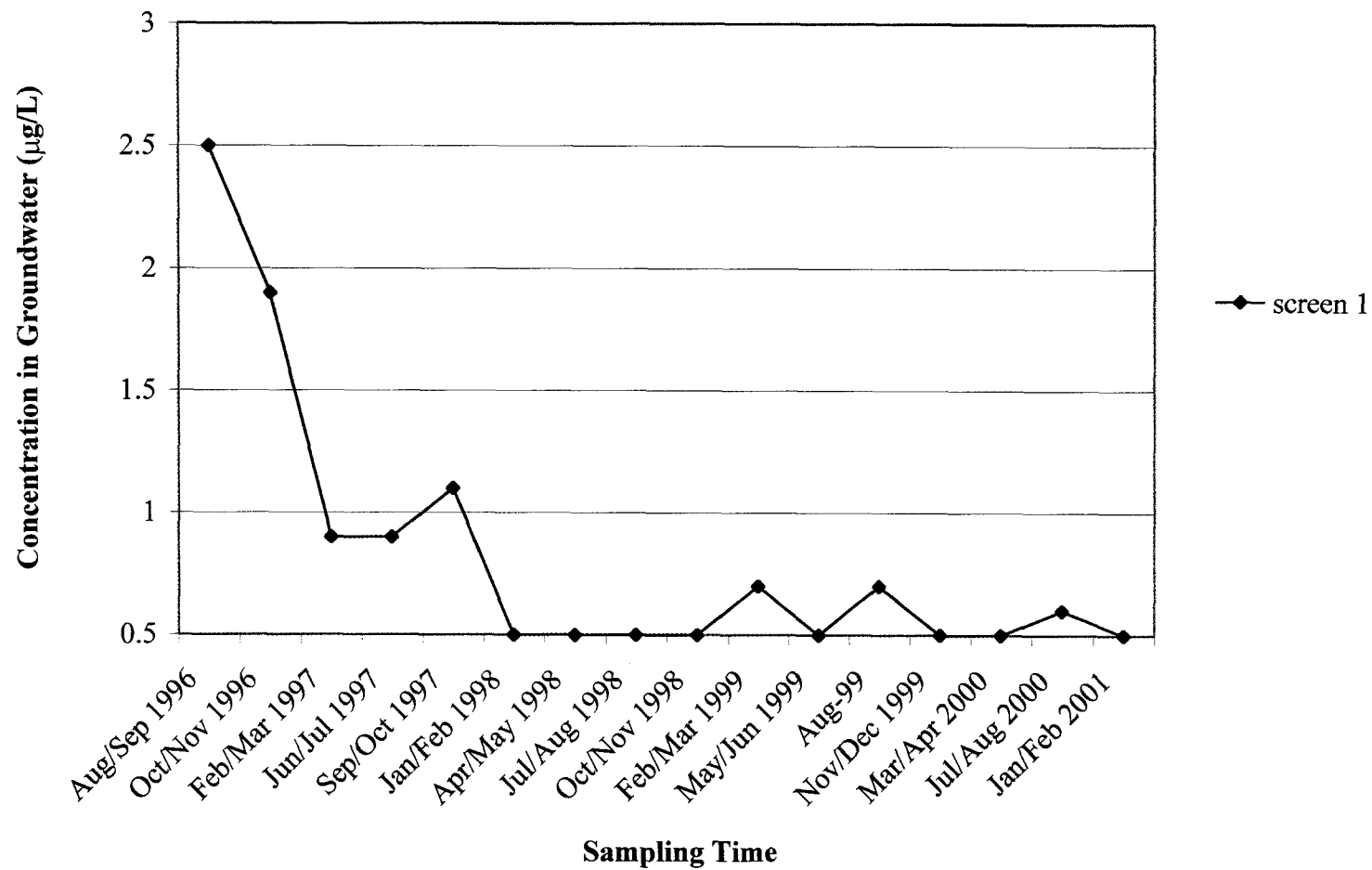
**Figure 3-60** Chloroform Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



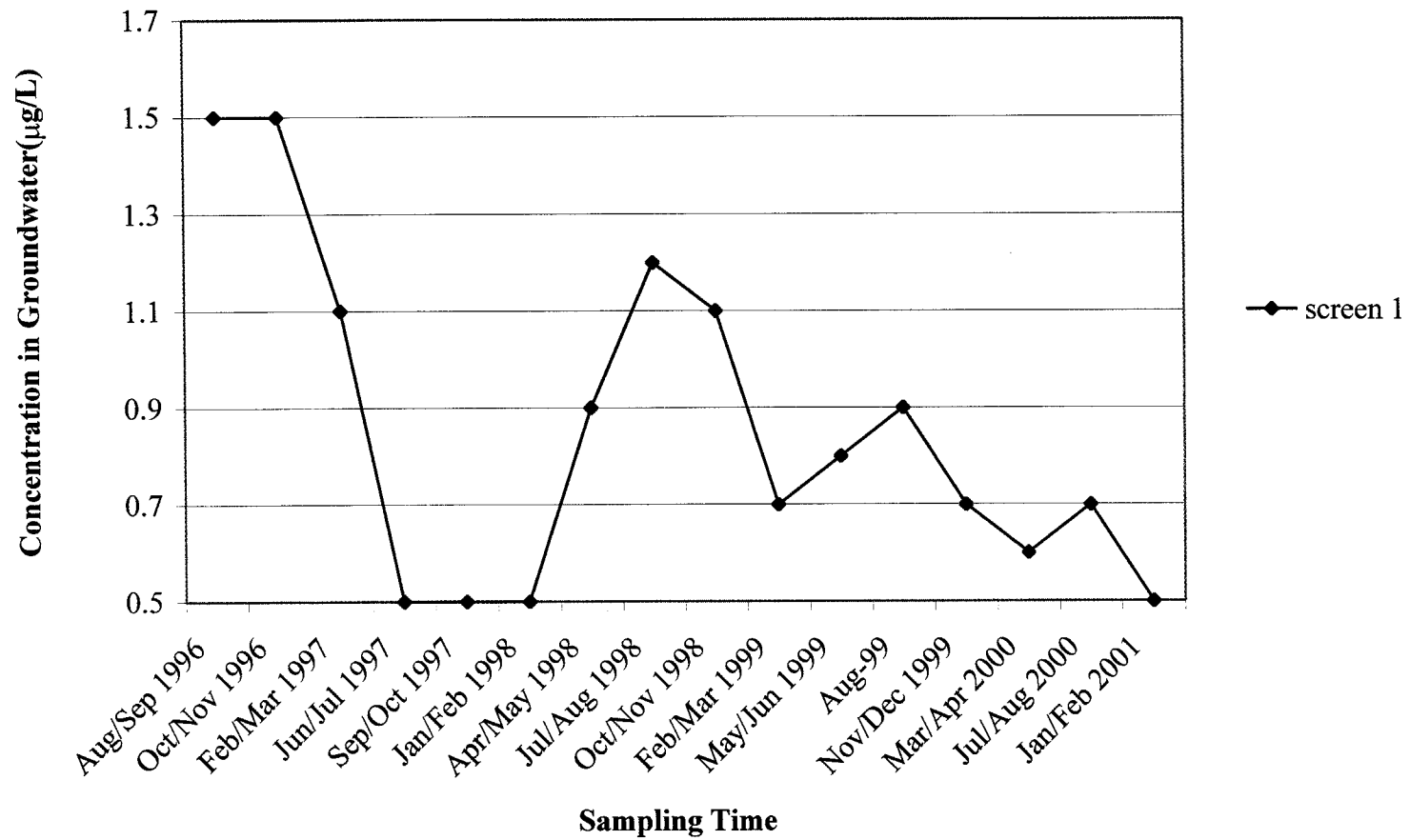
**Figure 3-61** Perchlorate Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



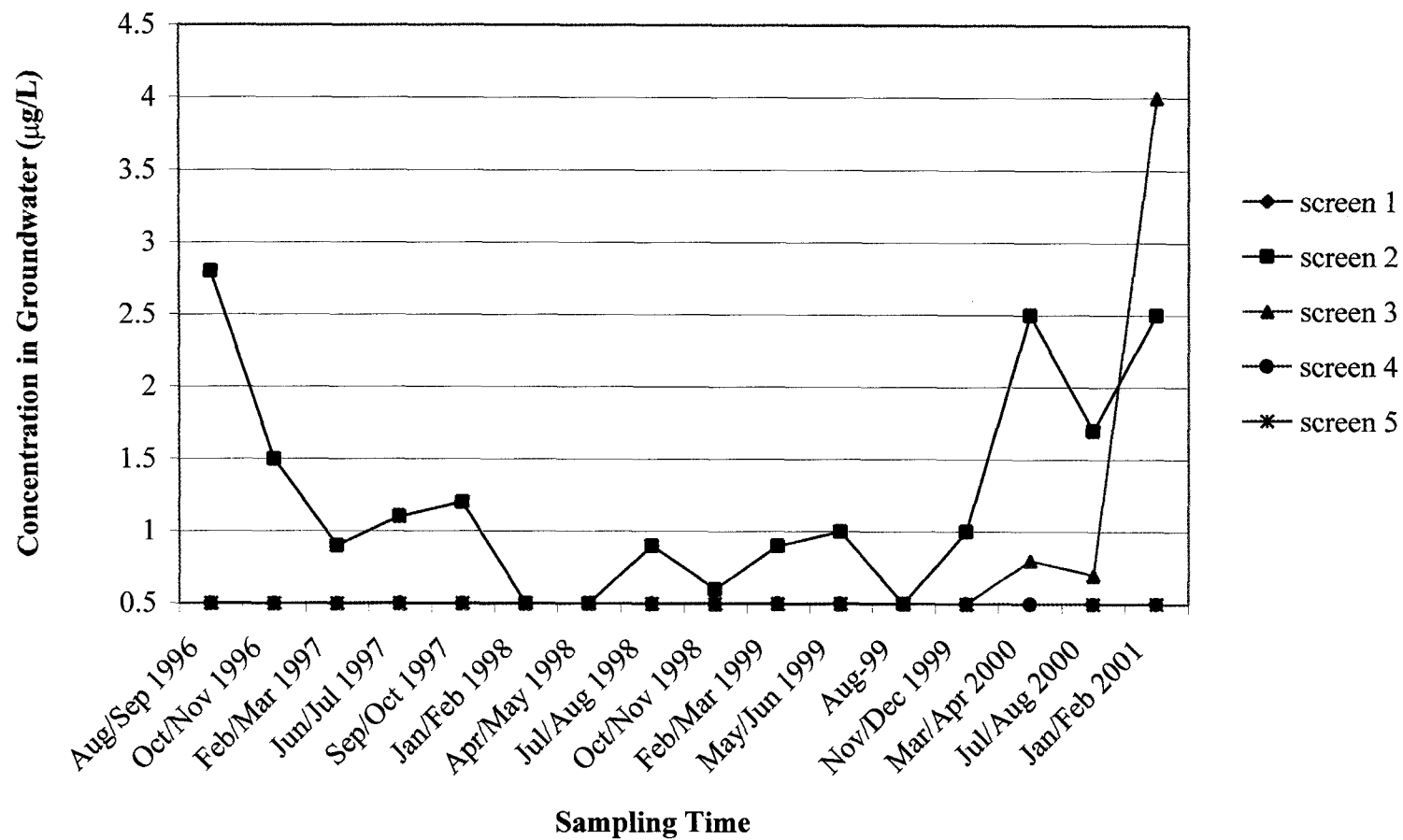
**Figure 3-62** 1,1-DCA Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



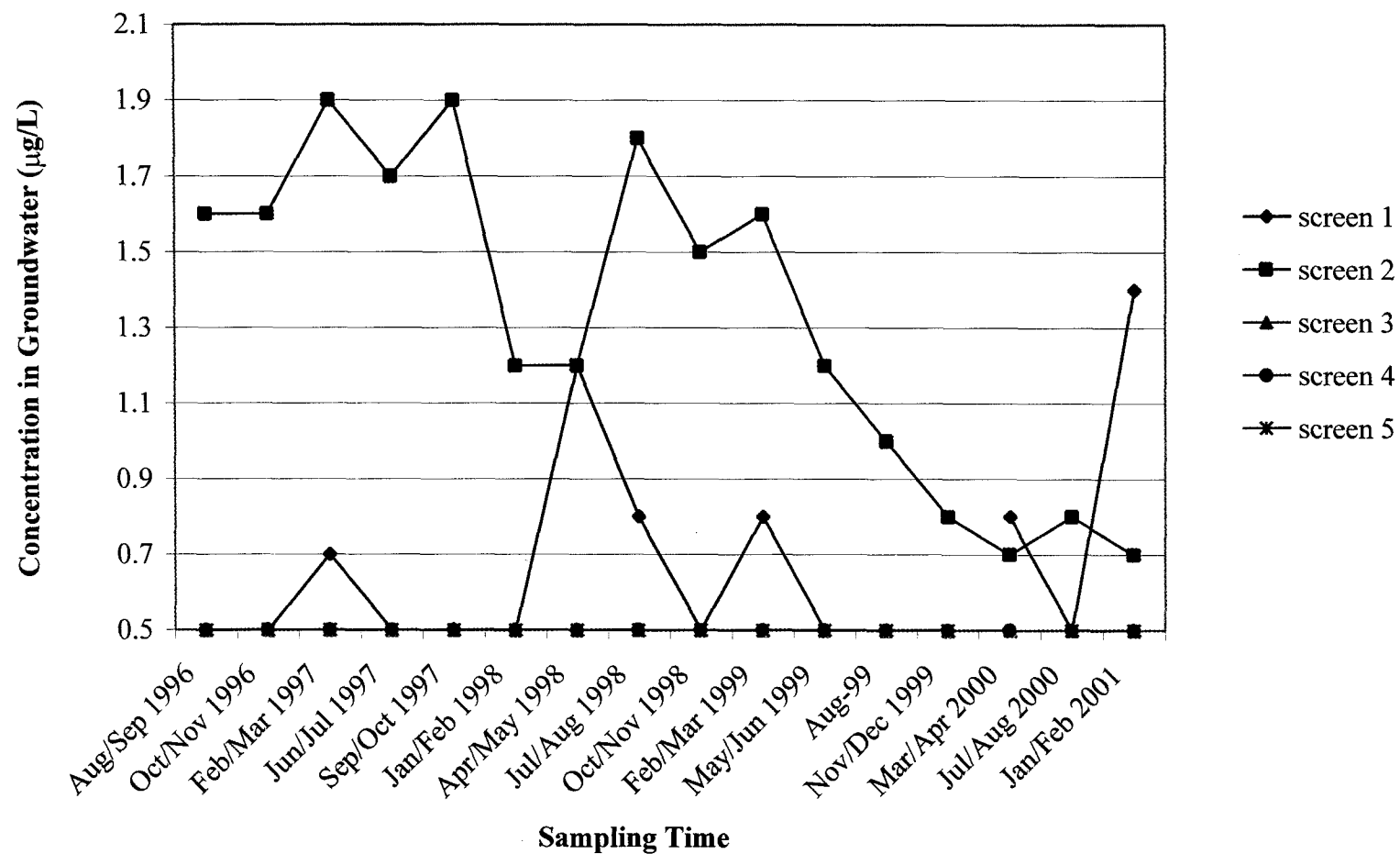
**Figure 3-63** 1,2-DCA Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



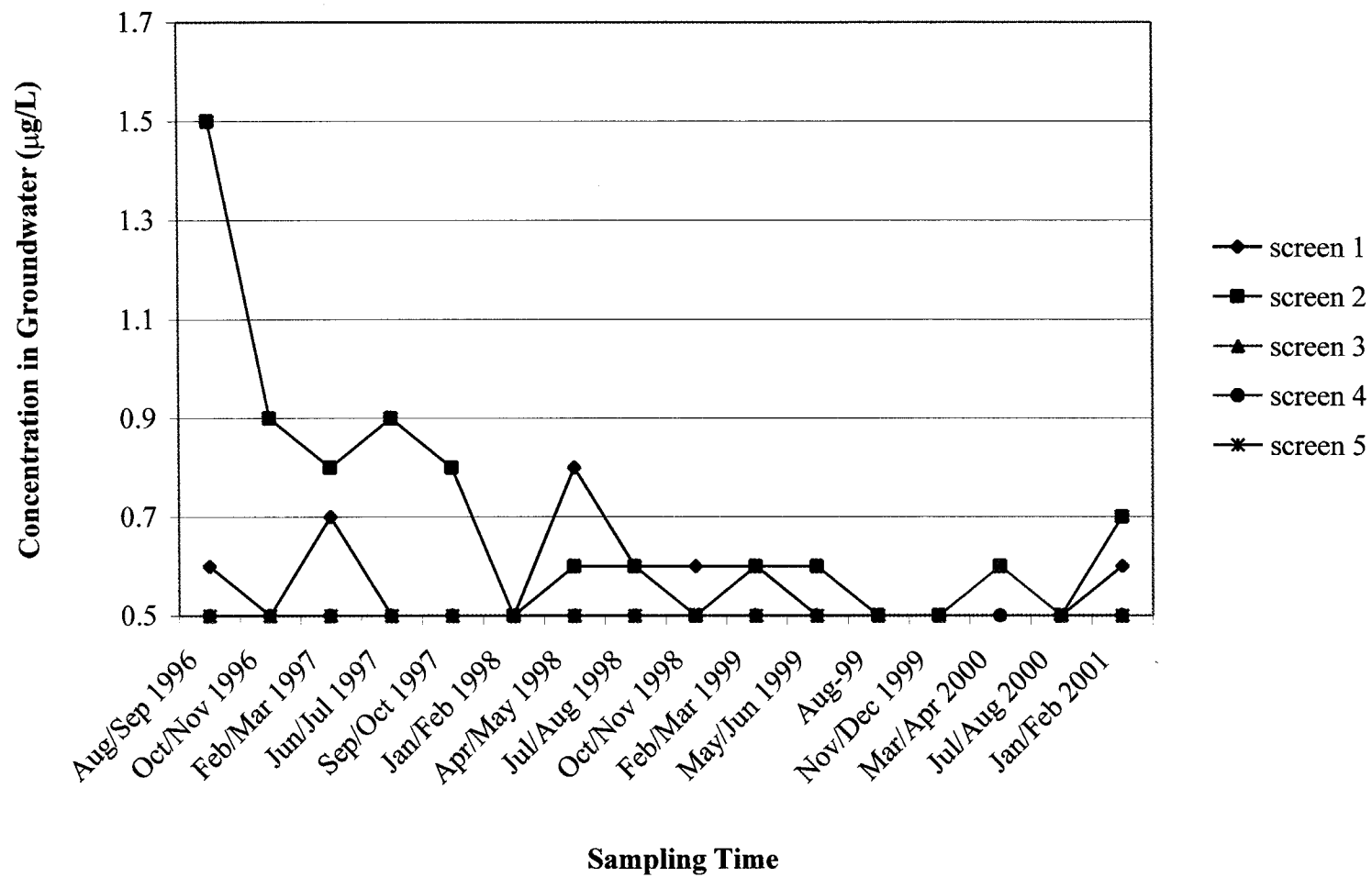
**Figure 3-64** 1,1-DCE Detected at MW-13 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$ , CA MCL = 6  $\mu\text{g/L}$ )



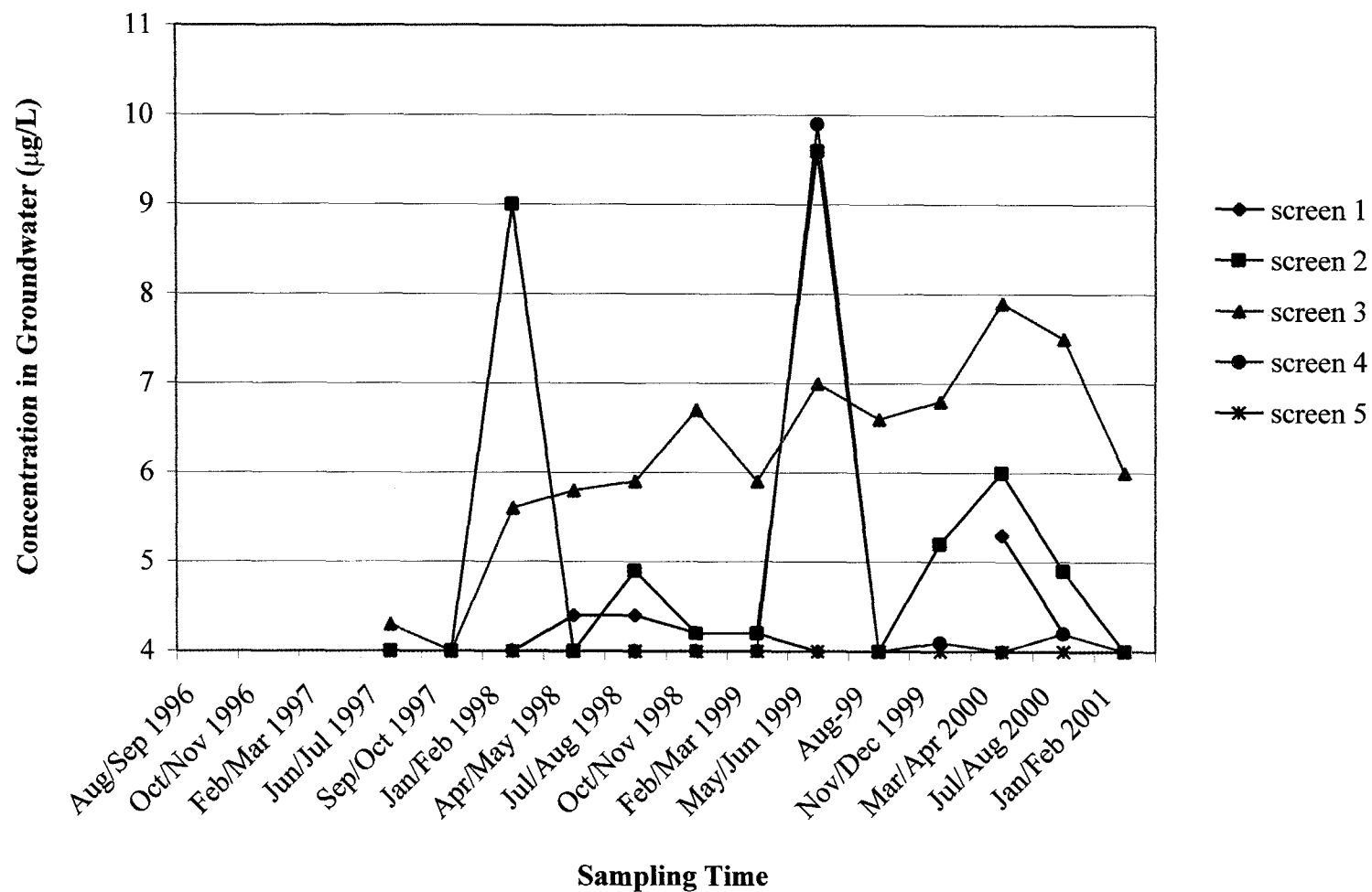
**Figure 3-65** TCE Detected at MW-14 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



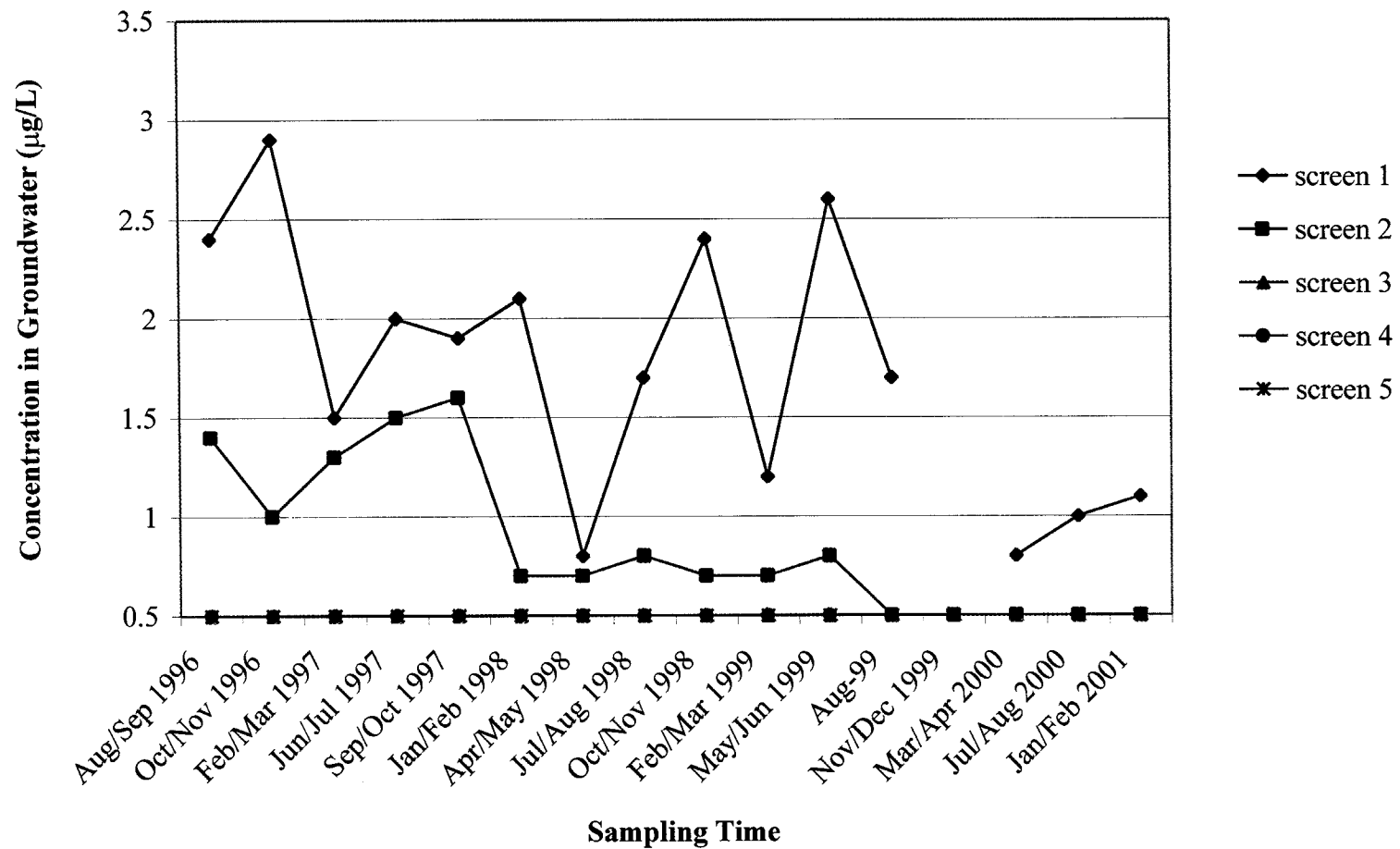
**Figure 3-66** PCE Detected at MW-14 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



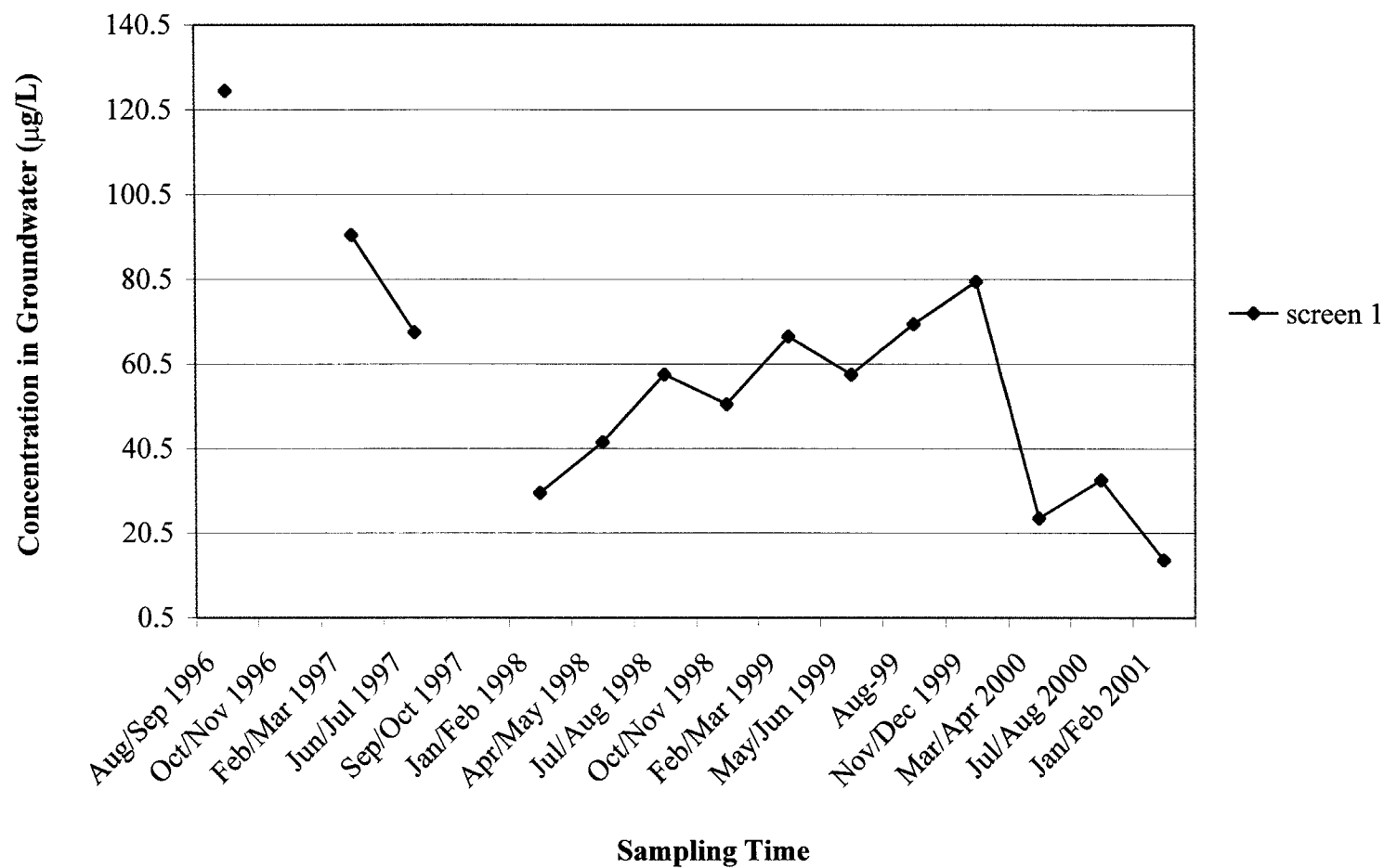
**Figure 3-67** Chloroform Detected at MW-14 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $100 \mu\text{g/L}$ )



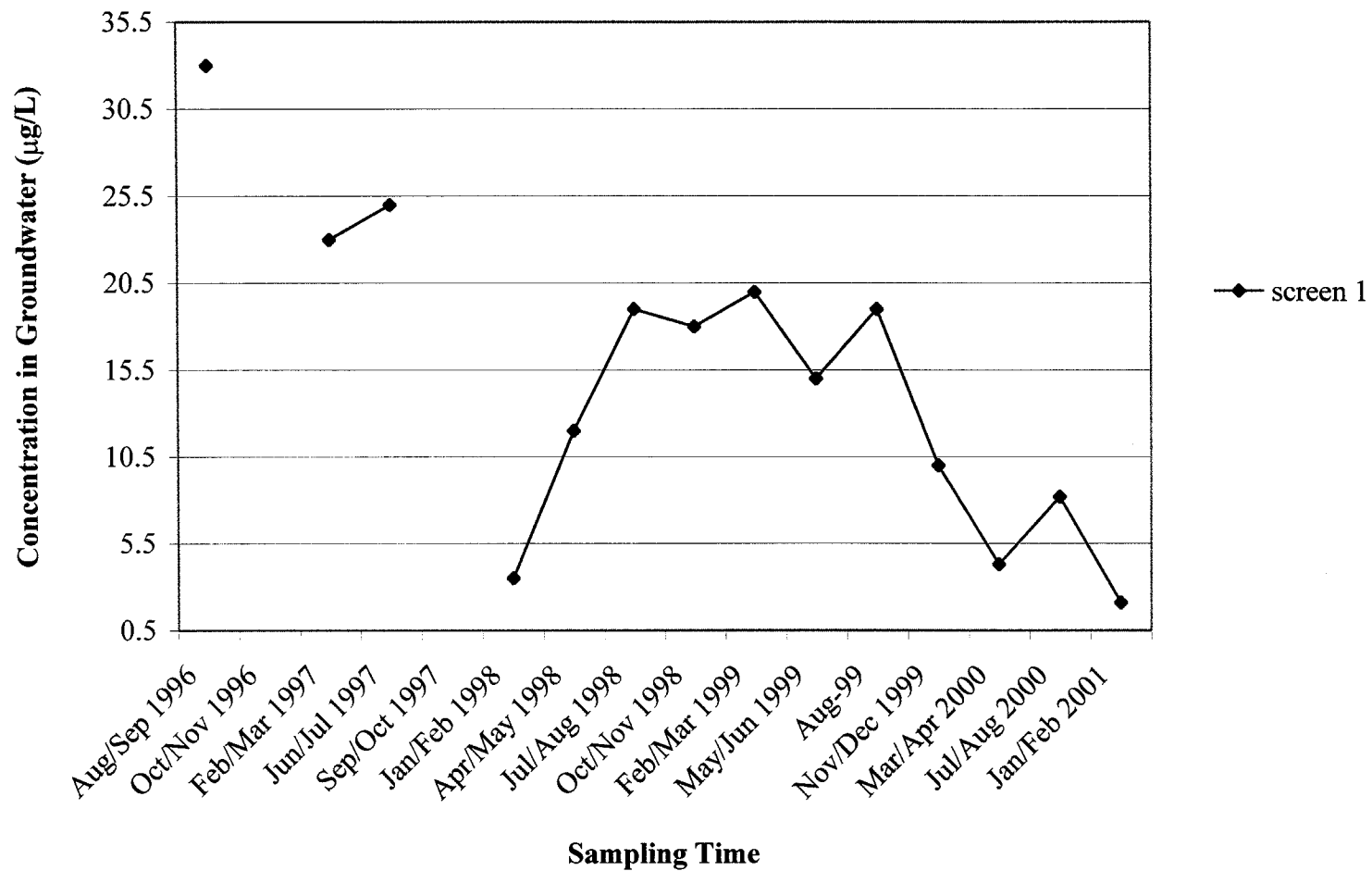
**Figure 3-68** Perchlorate Detected at MW-14 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4  $\mu\text{g/L}$ , CA IAL = 18  $\mu\text{g/L}$ )



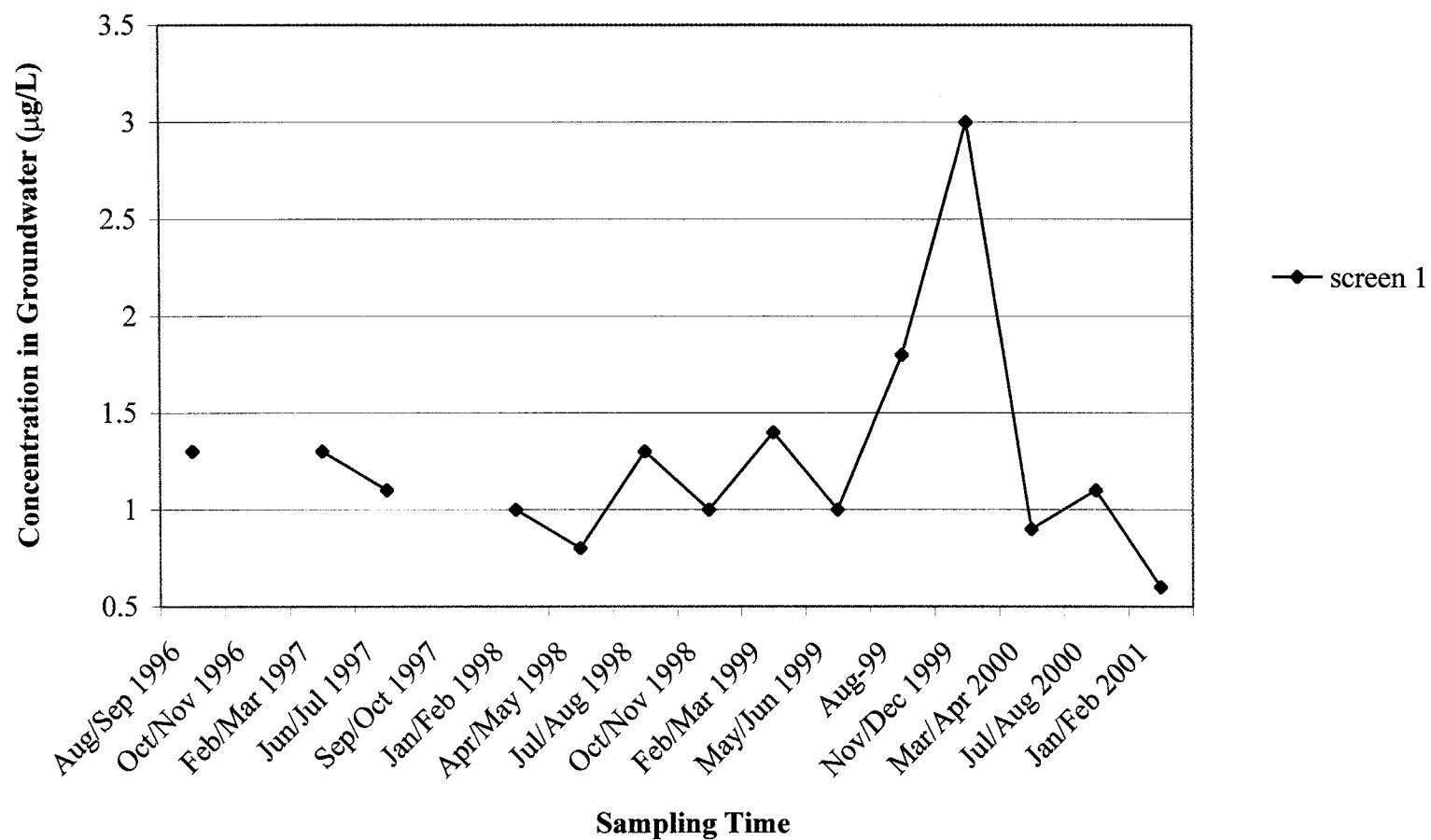
**Figure 3-69** 1,1-DCA Detected at MW-14 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



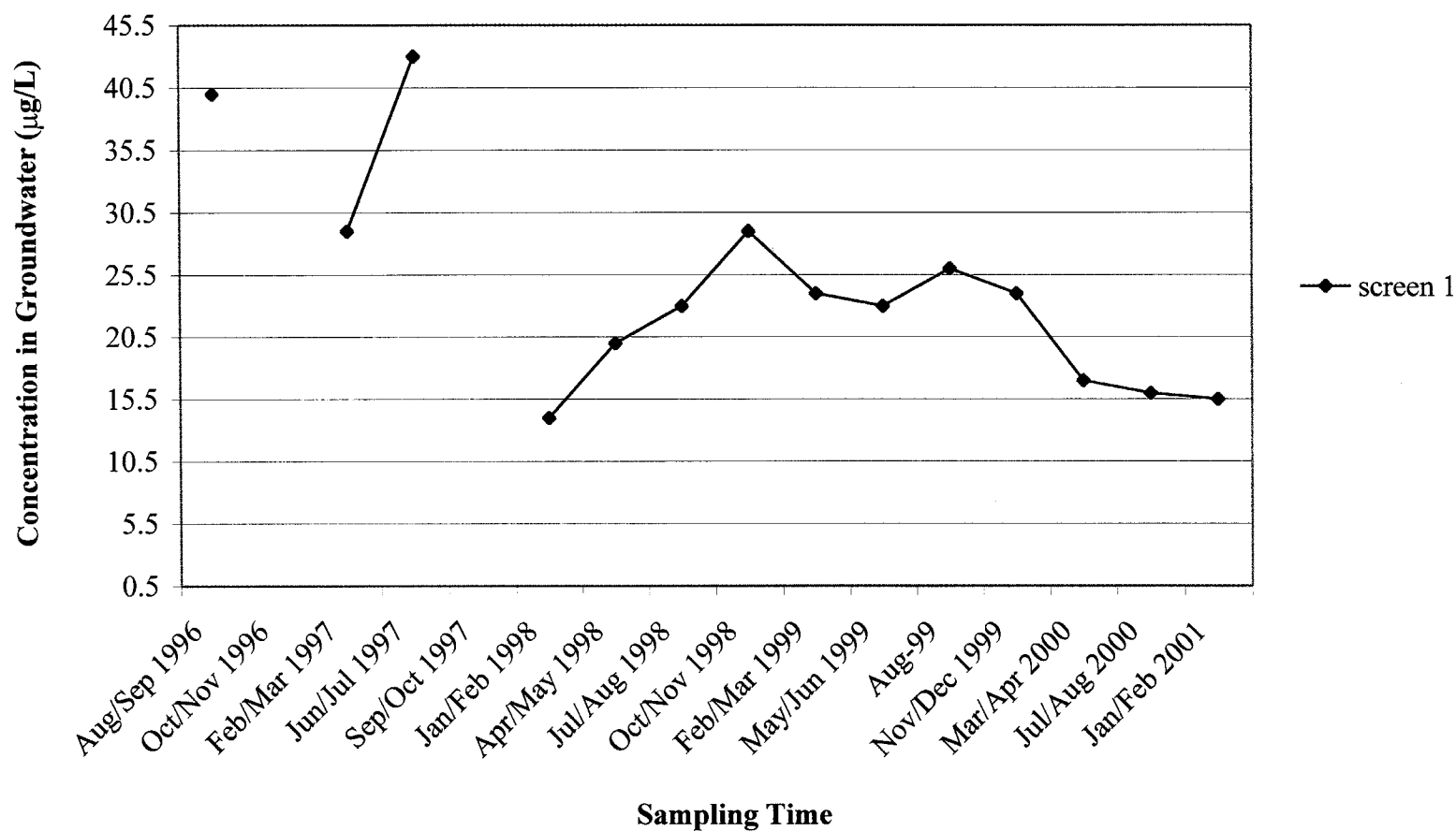
**Figure 3-70** Carbon Tetrachloride Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



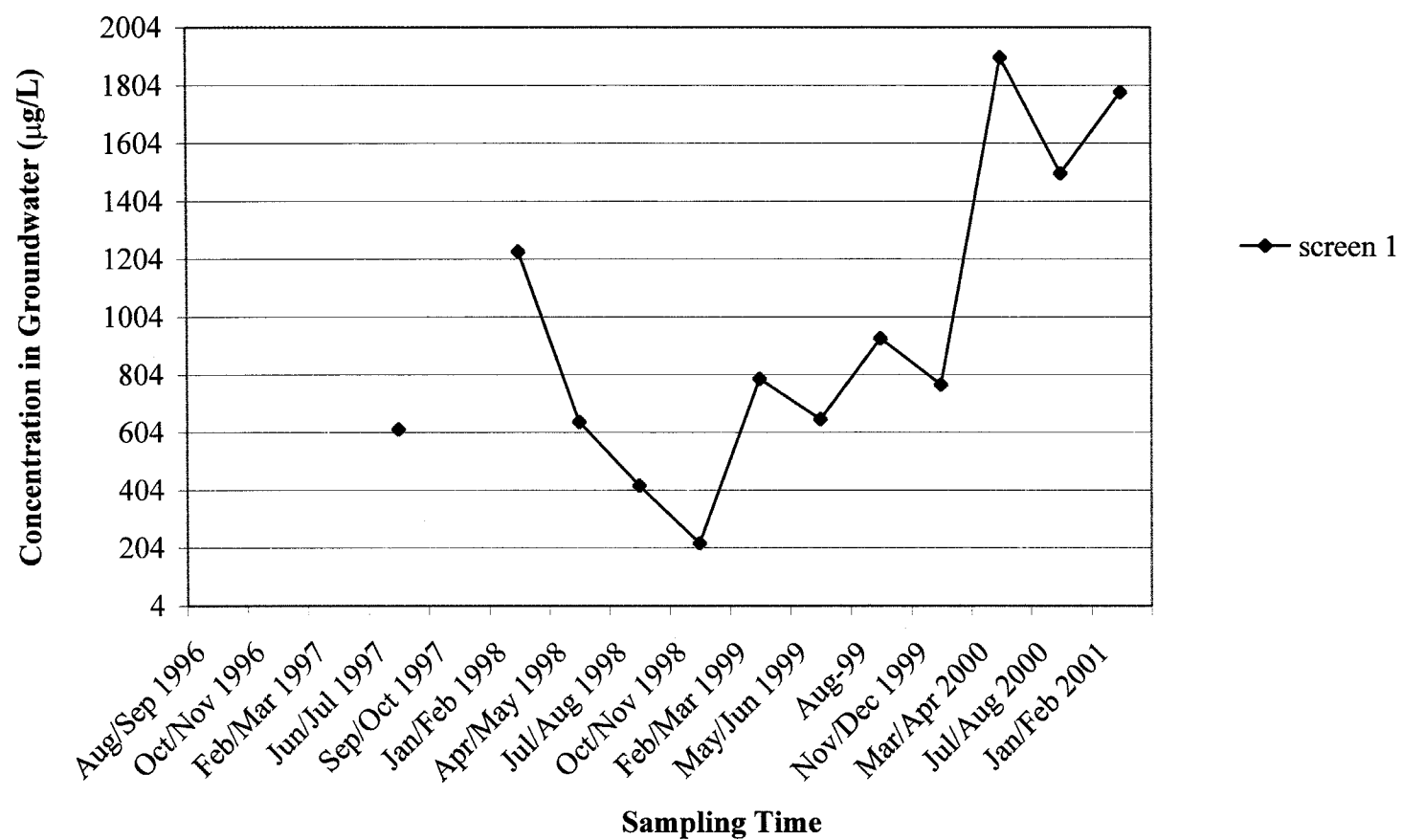
**Figure 3-71** TCE Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



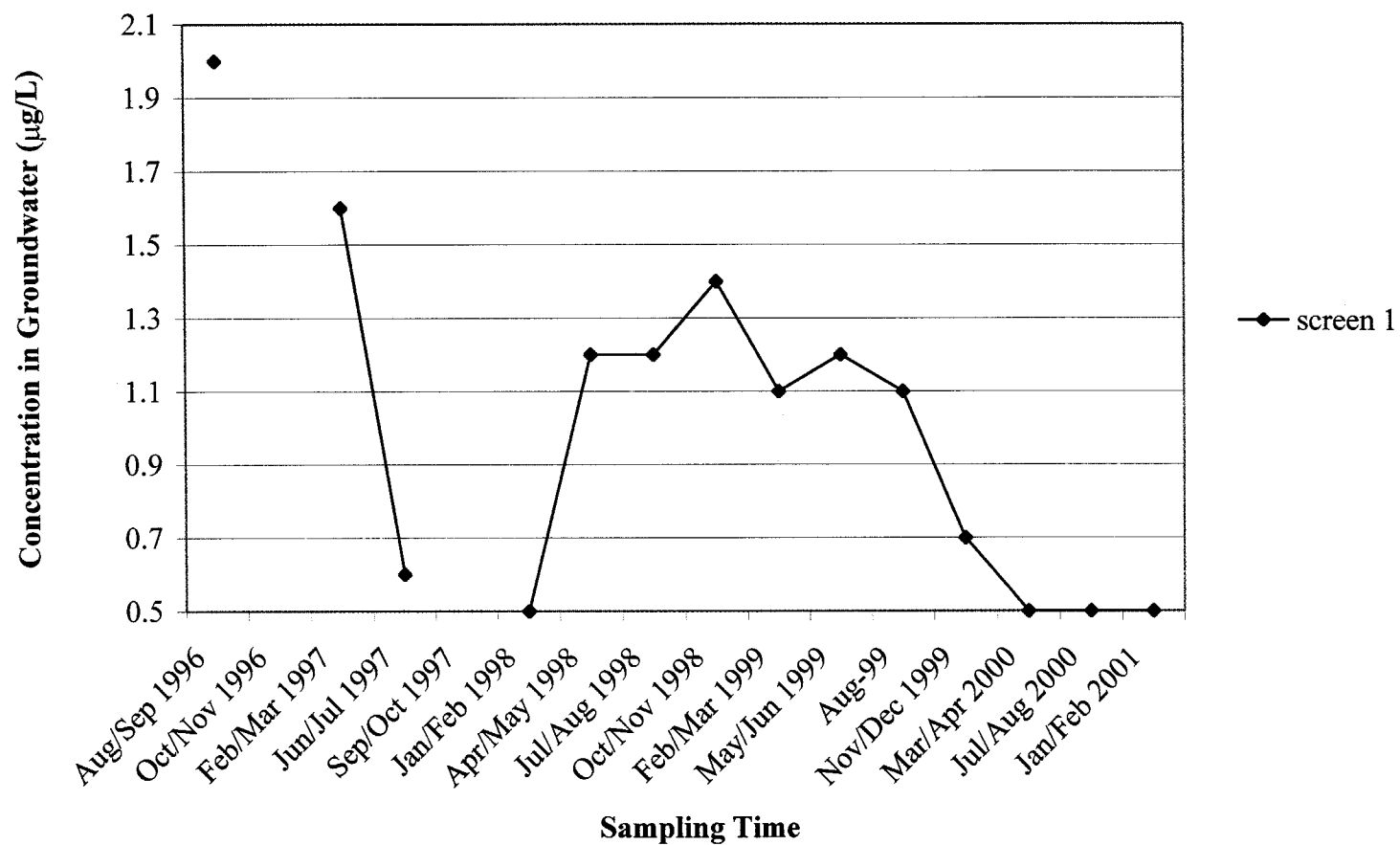
**Figure 3-72** PCE Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



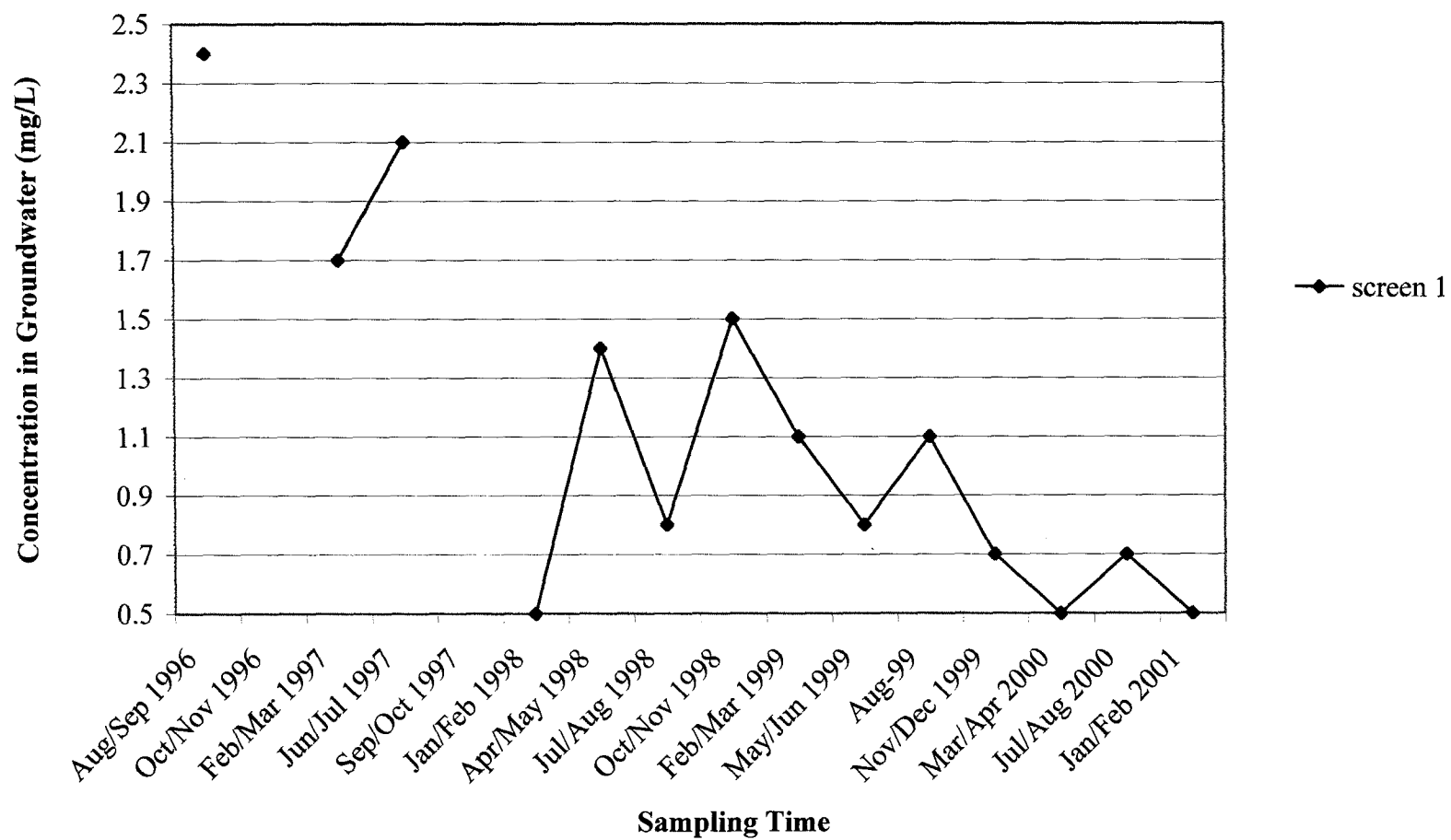
**Figure 3-73** Chloroform Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



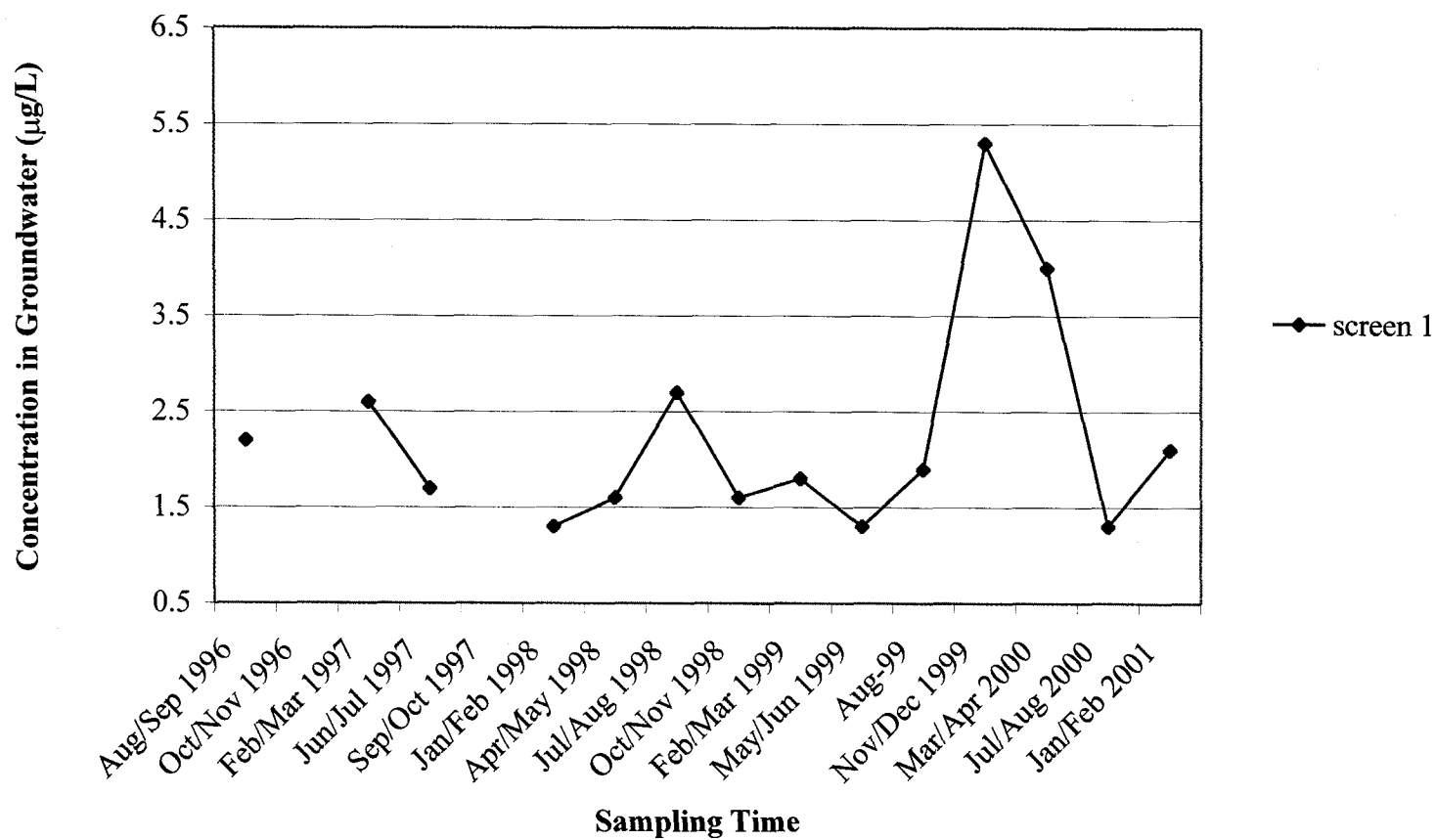
**Figure 3-74** Perchlorate Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



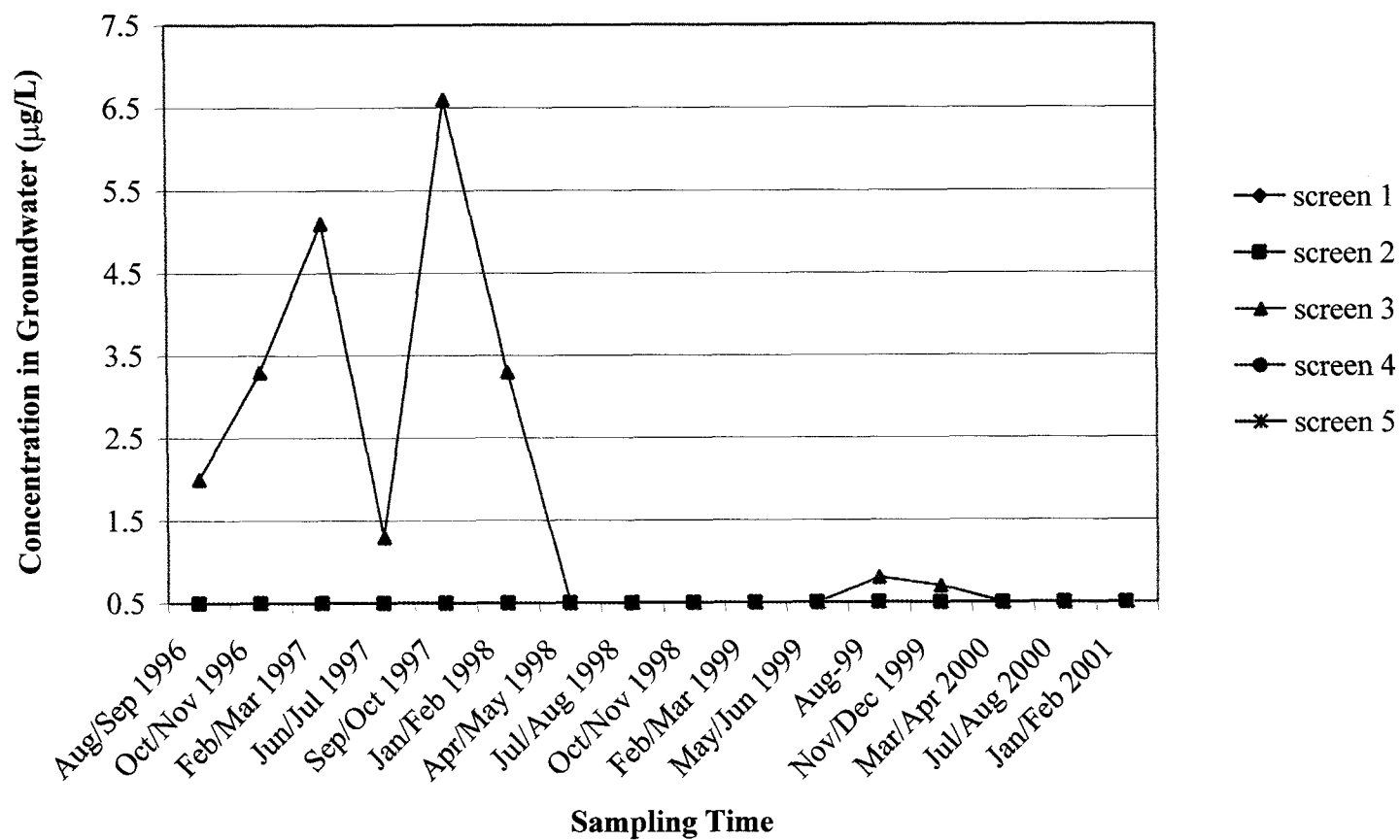
**Figure 3-75** Freon 113 at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 1,200 µg/L)



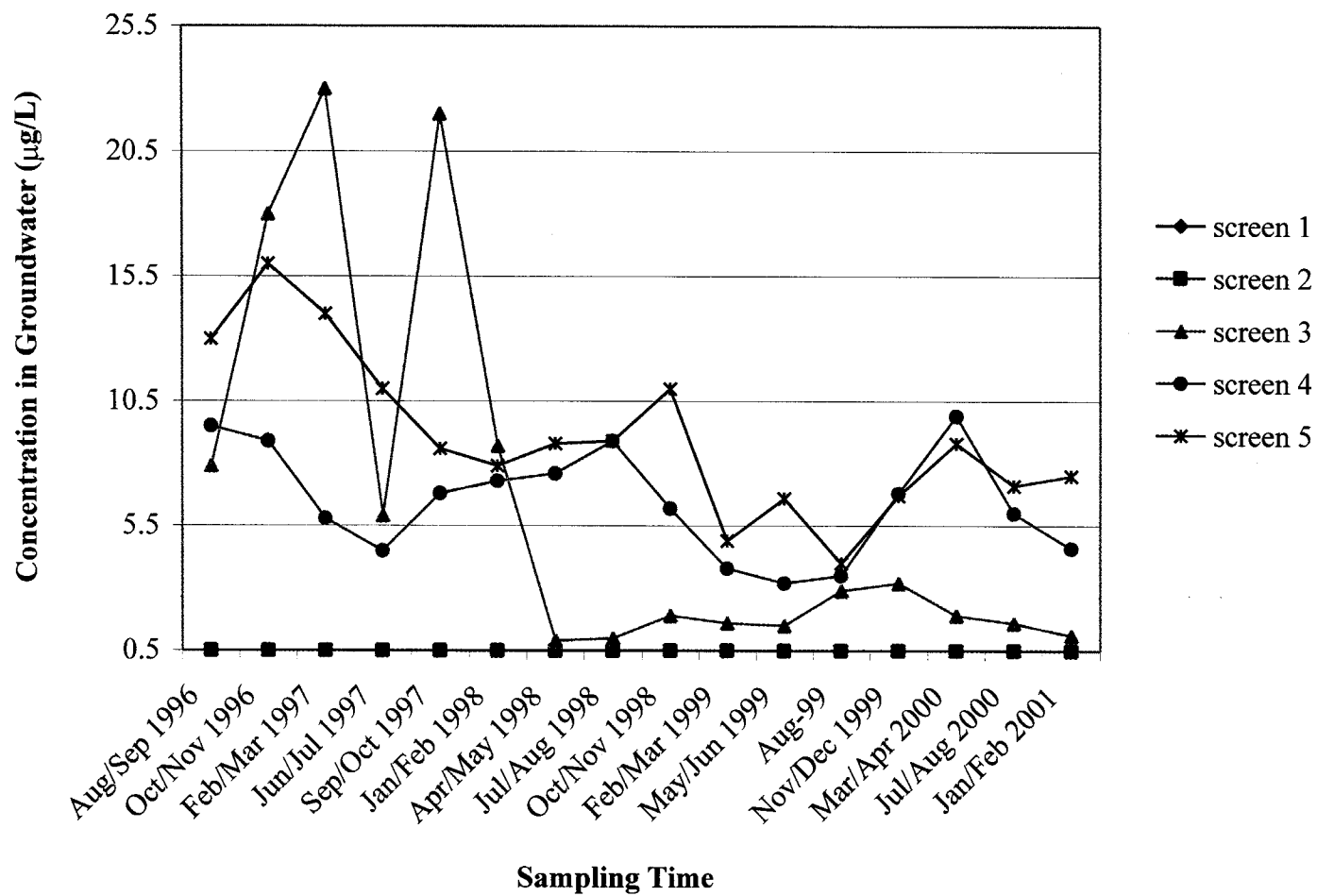
**Figure 3-76** 1,2-DCA Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 0.5 µg/L)



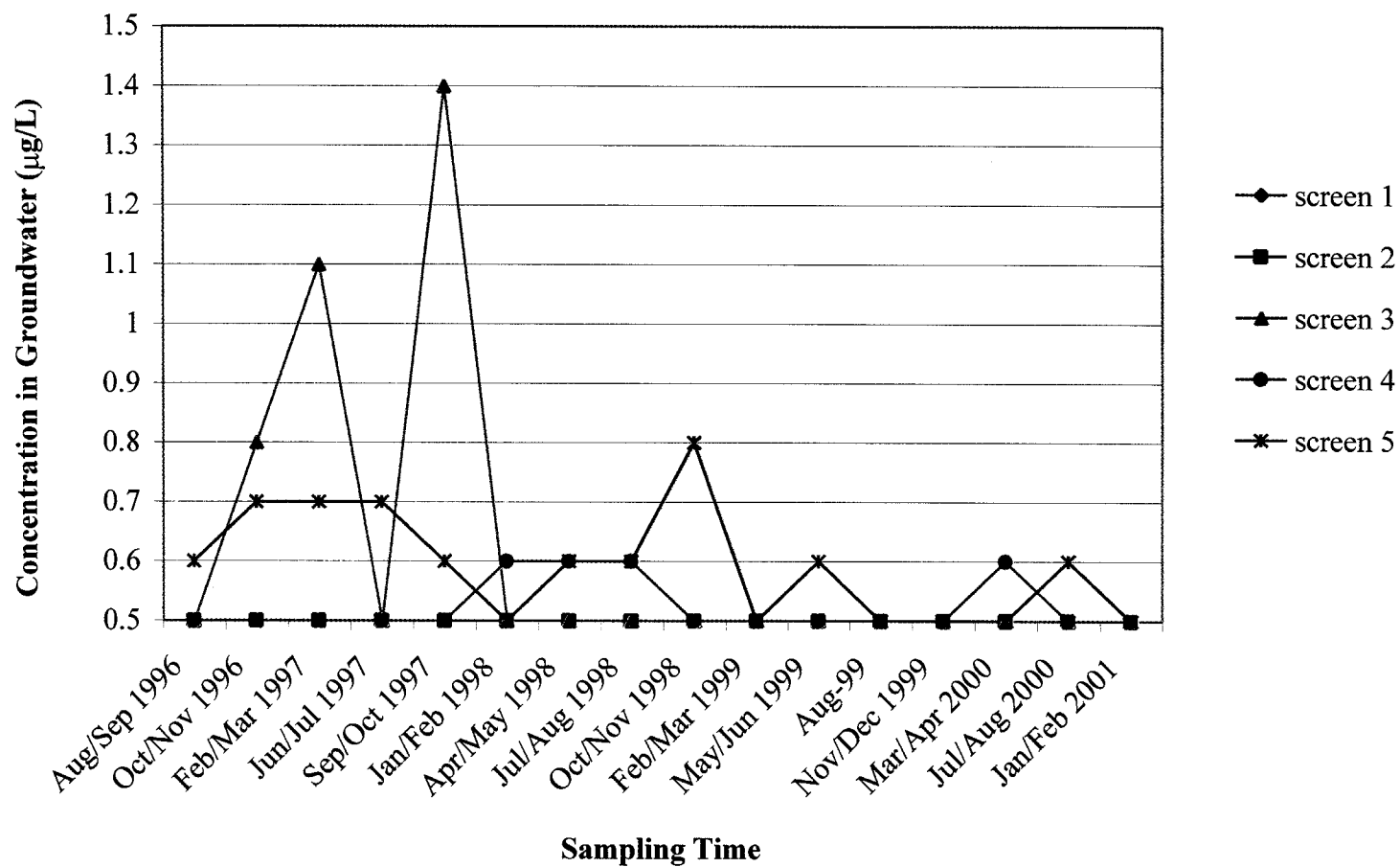
**Figure 3-77** 1,1-DCE Detected at MW-16 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $6 \mu\text{g/L}$ )



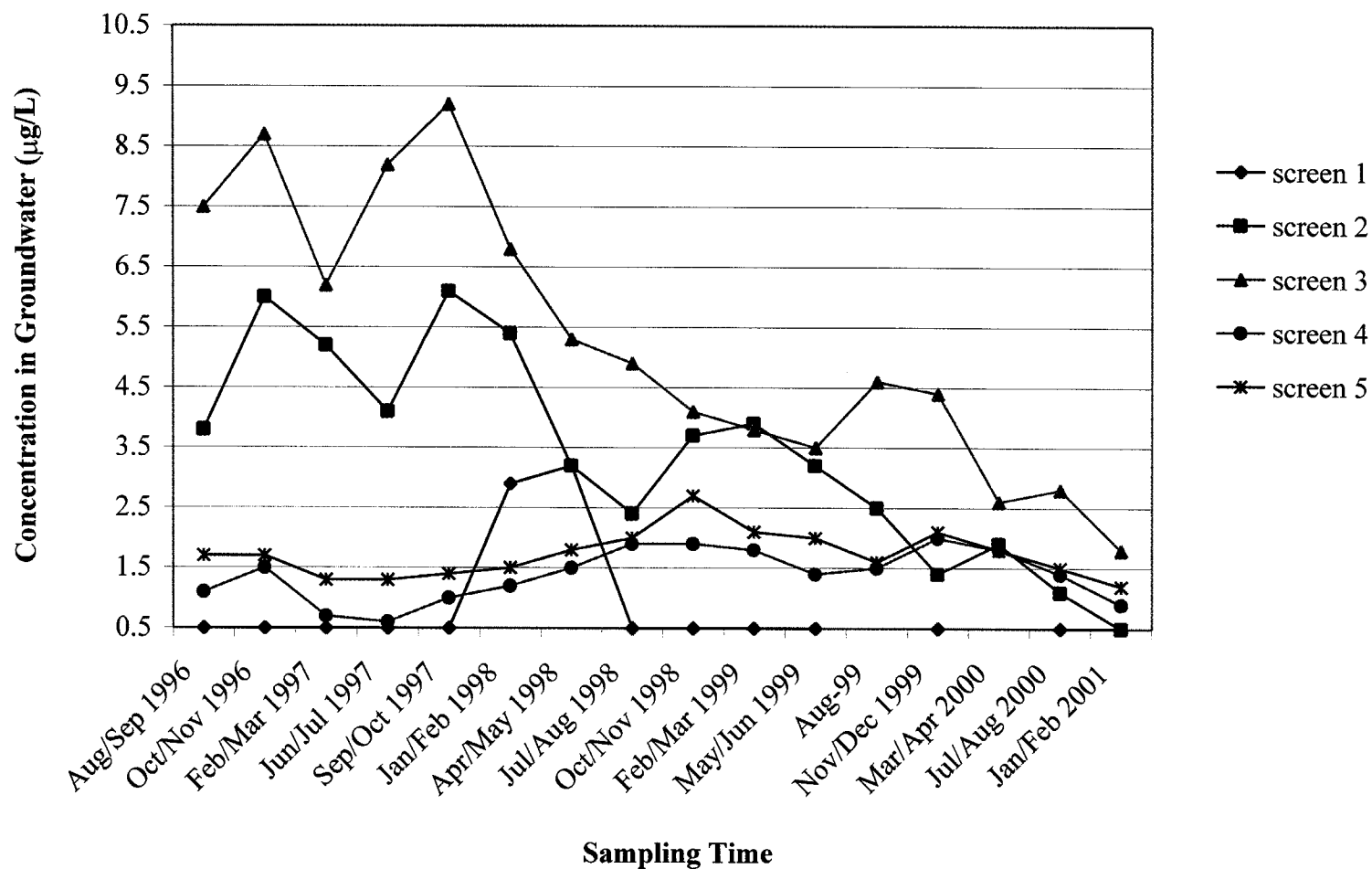
**Figure 3-78** Carbon Tetrachloride Detected at MW-17 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $0.5 \mu\text{g/L}$ )



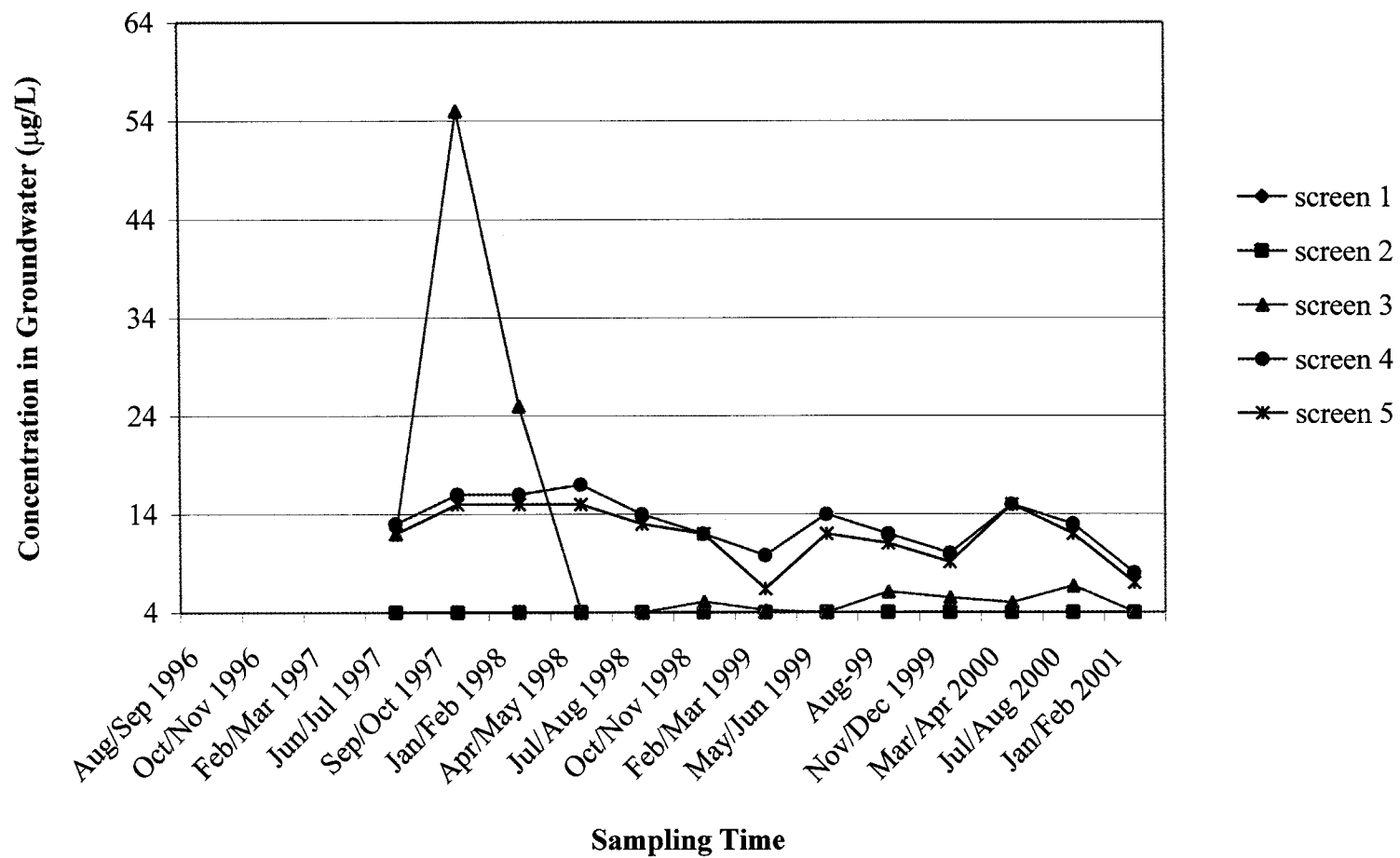
**Figure 3-79** TCE Detected at MW-17 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



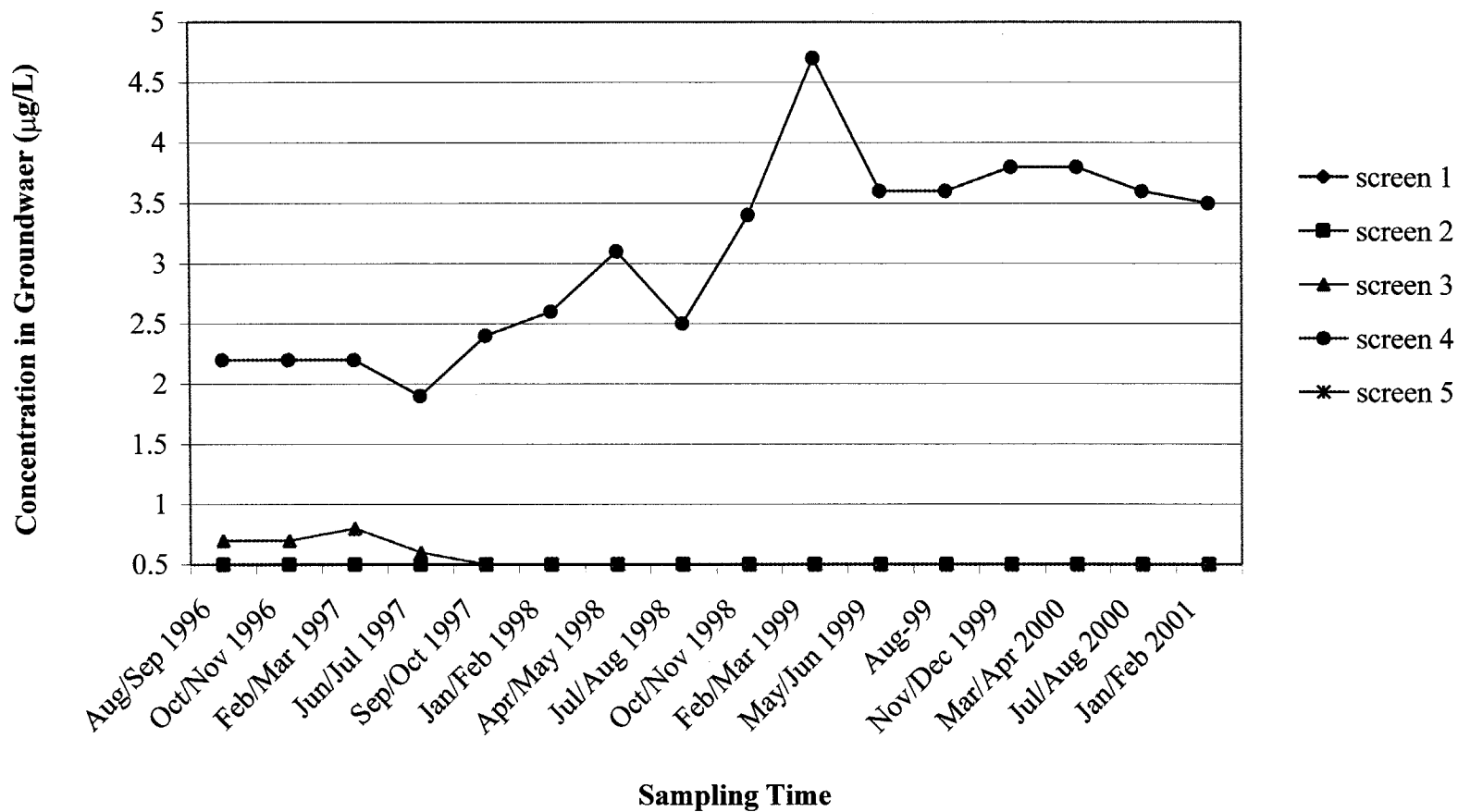
**Figure 3-80** PCE Detected at MW-17 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



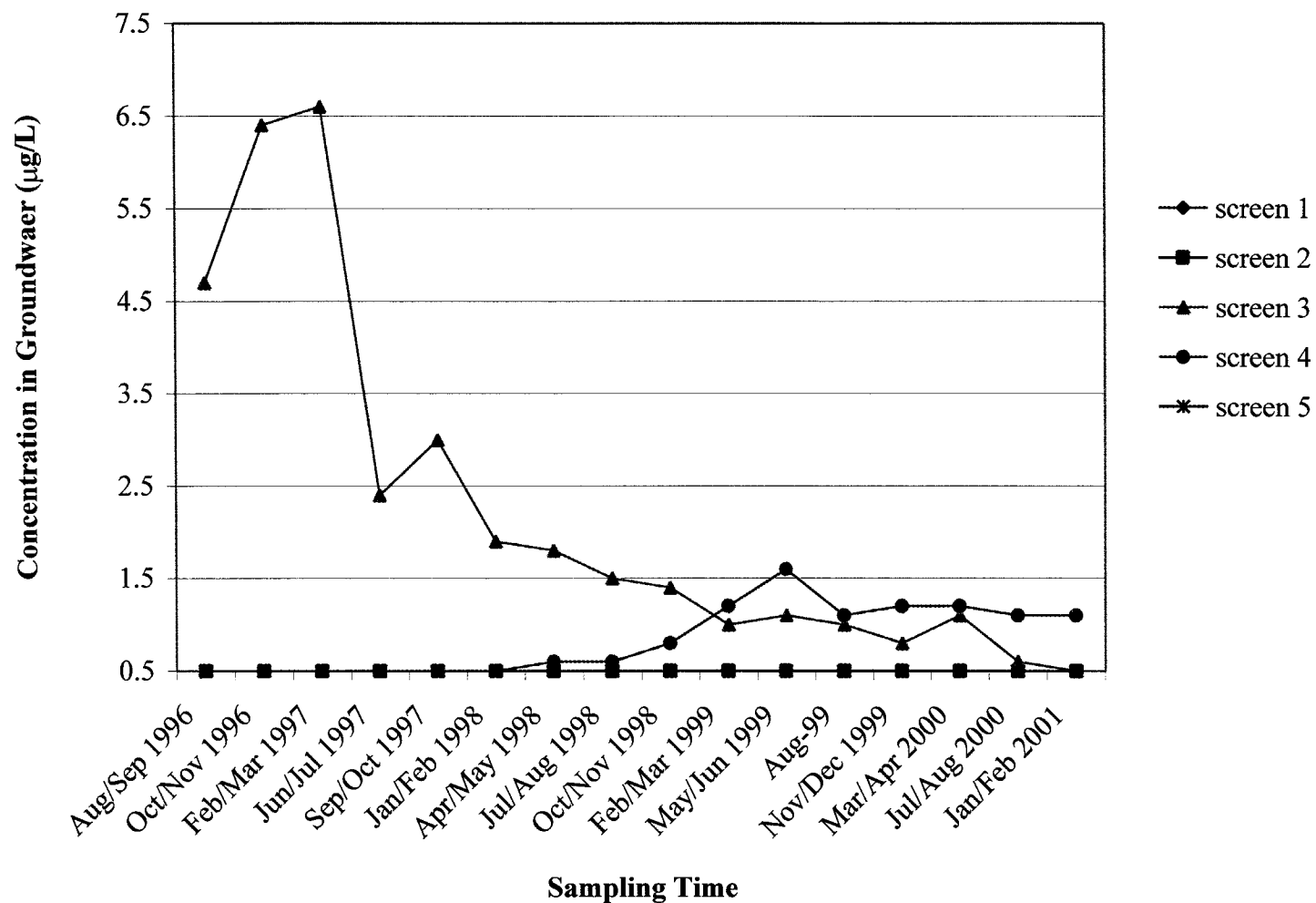
**Figure 3-81** Chloroform at MW-17 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $100 \mu\text{g/L}$ )



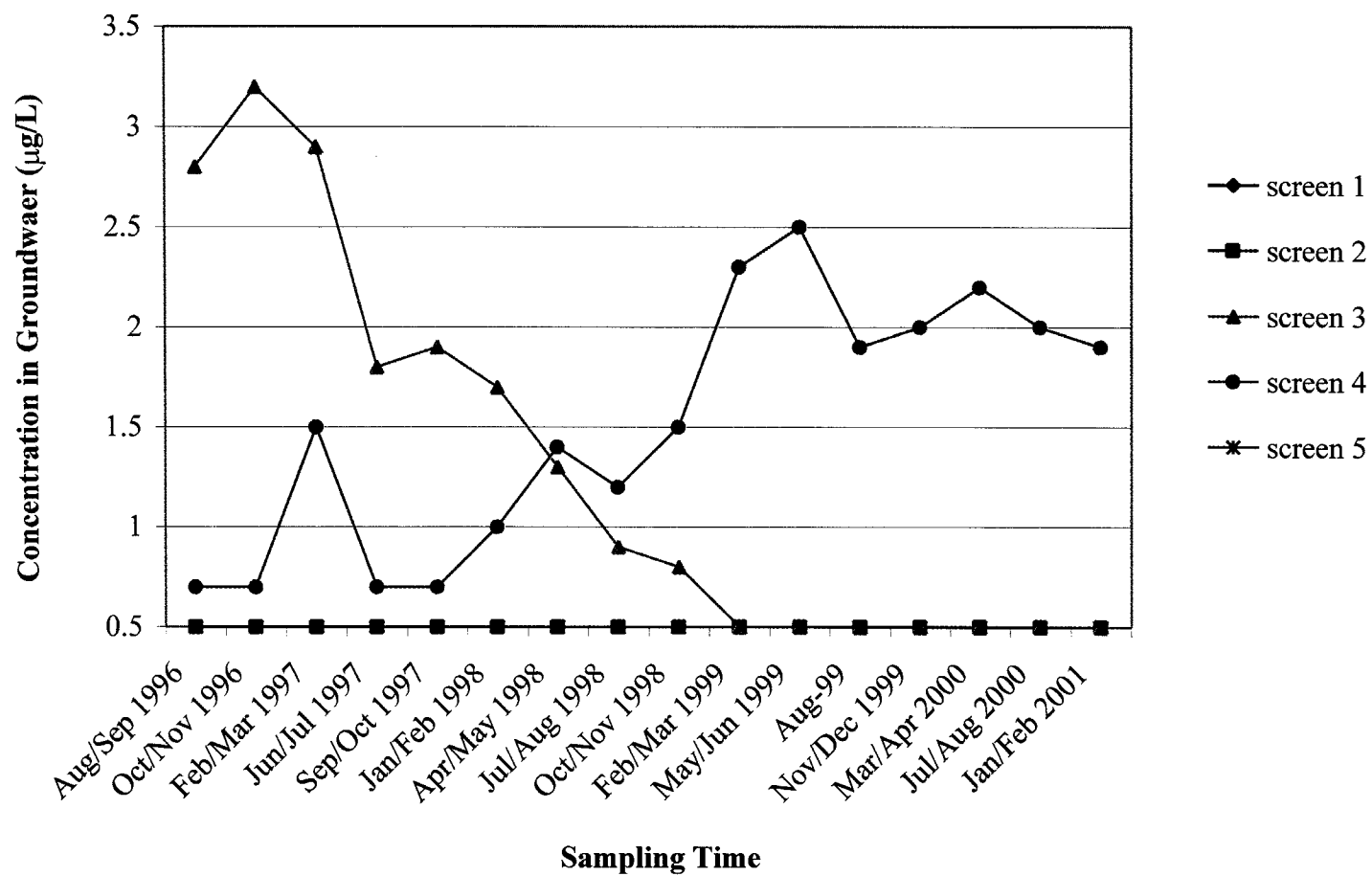
**Figure 3-82** Perchlorate Detected at MW-17 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



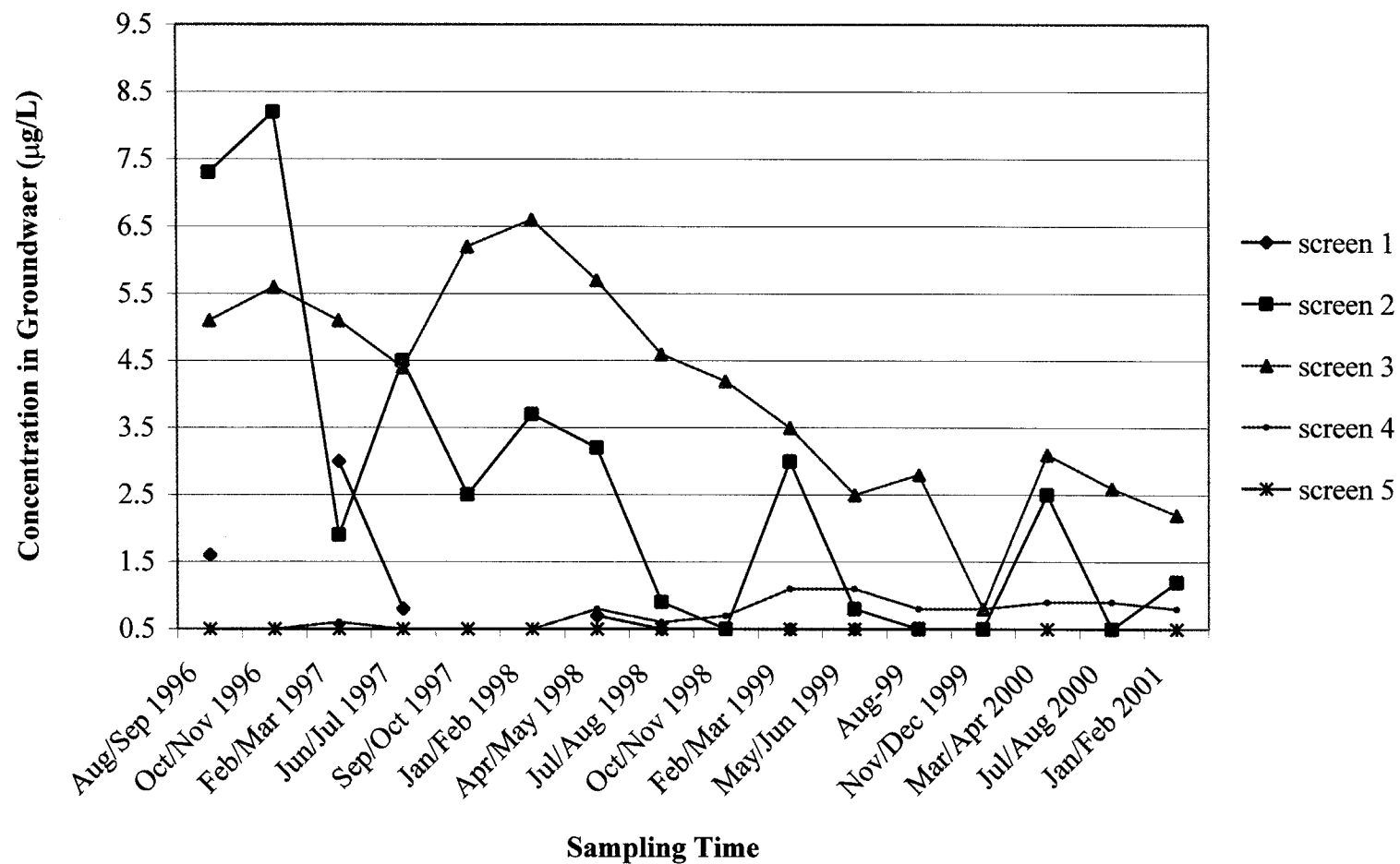
**Figure 3-83** Carbon Tetrachloride Detected at MW-18 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 0.5 µg/L)



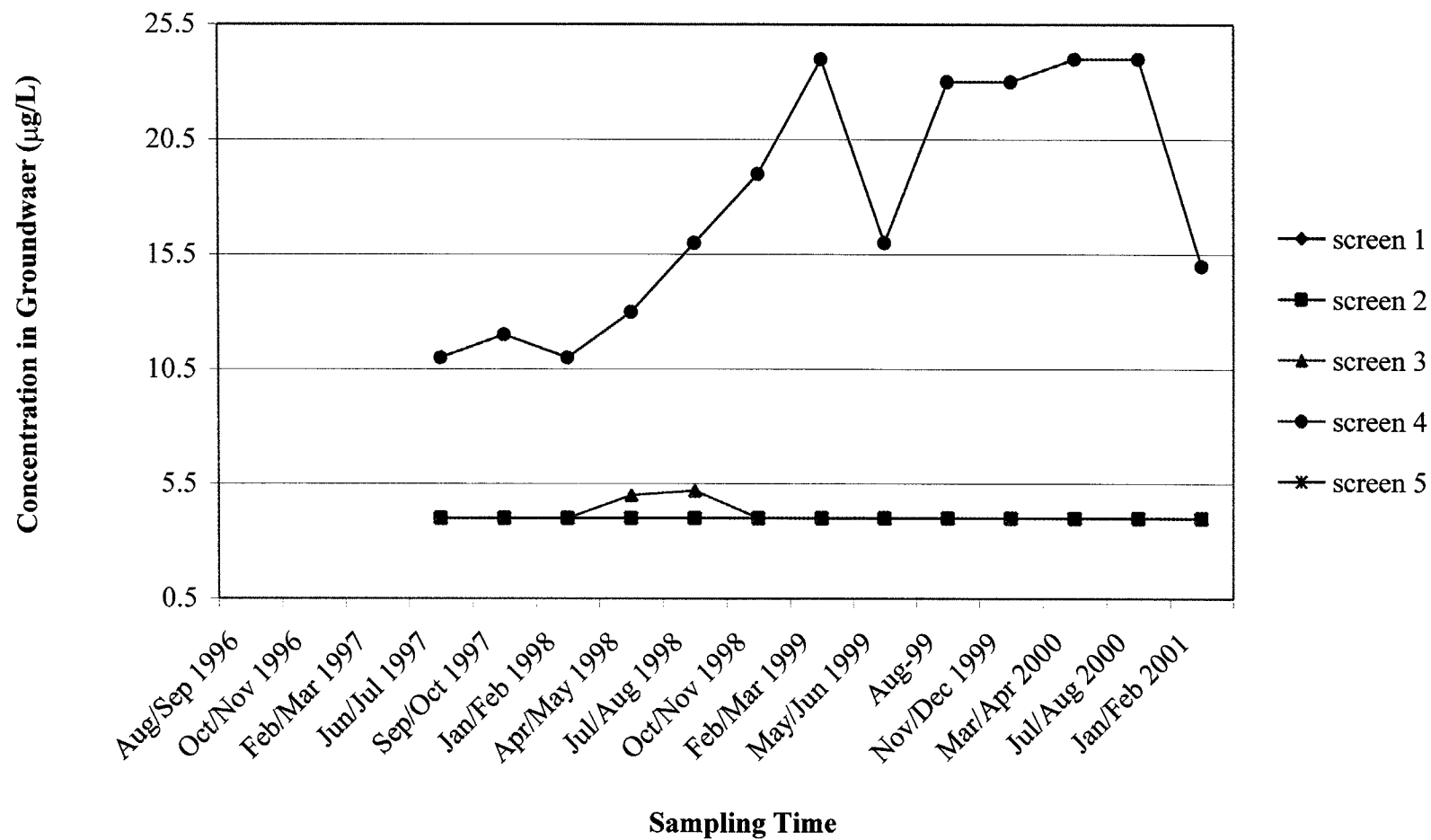
**Figure 3-84** TCE Detected at MW-18 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



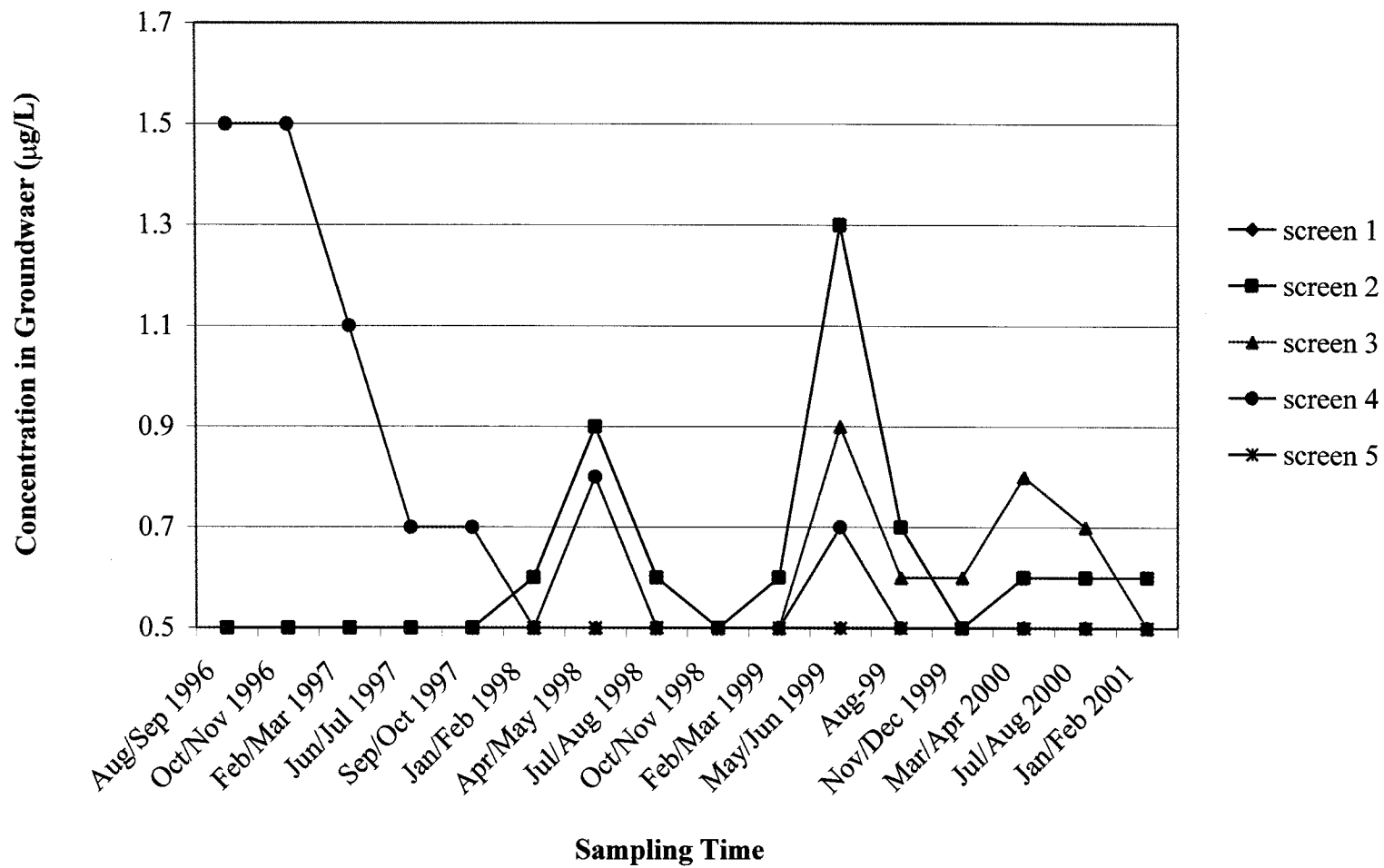
**Figure 3-85** PCE Detected at MW-18 from Aug/Sep1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5  $\mu\text{g/L}$ , CA MCL = 5  $\mu\text{g/L}$ )



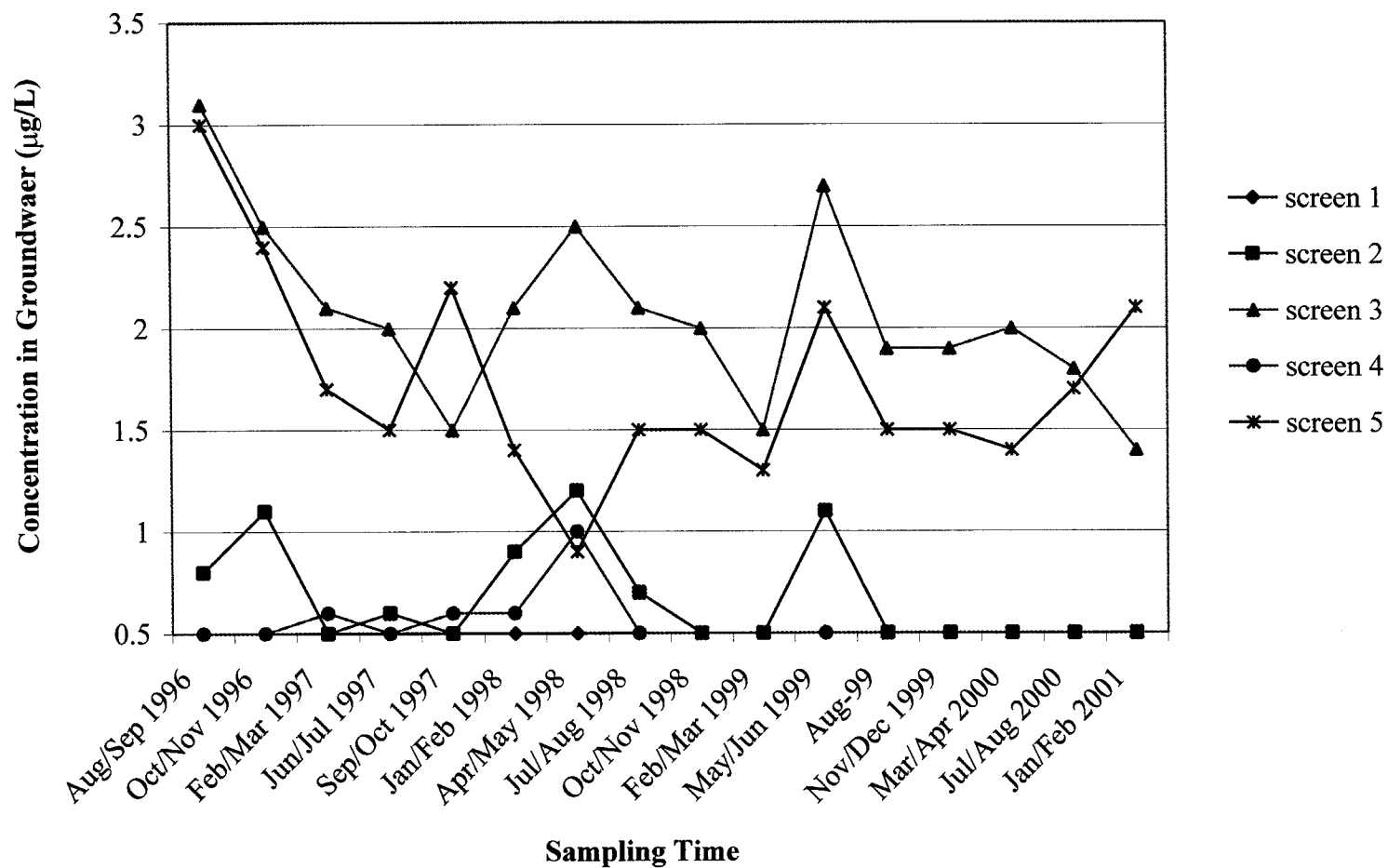
**Figure 3-86** Chloroform Detected at MW-18 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



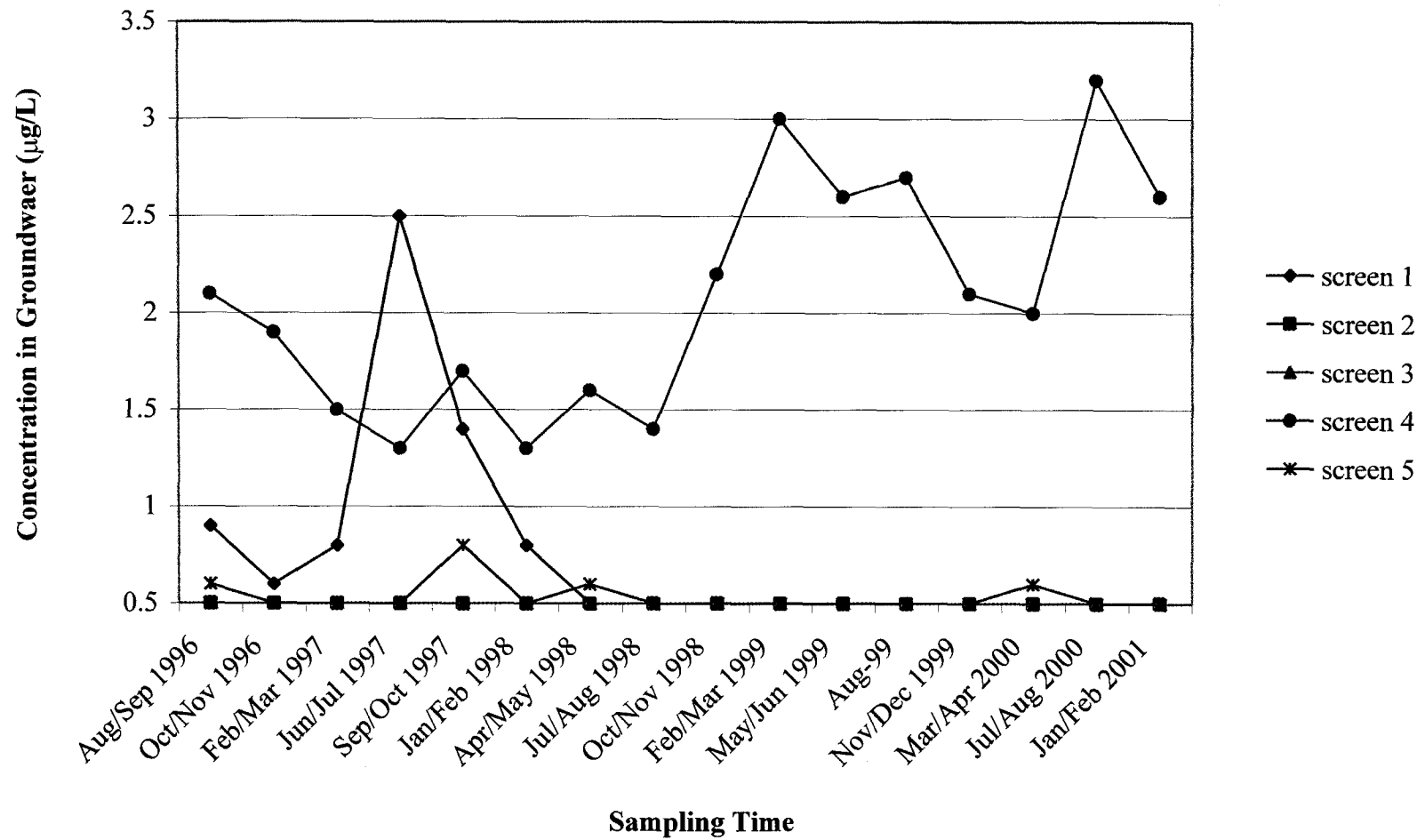
**Figure 3-87** Perchlorate Detected at MW-18 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



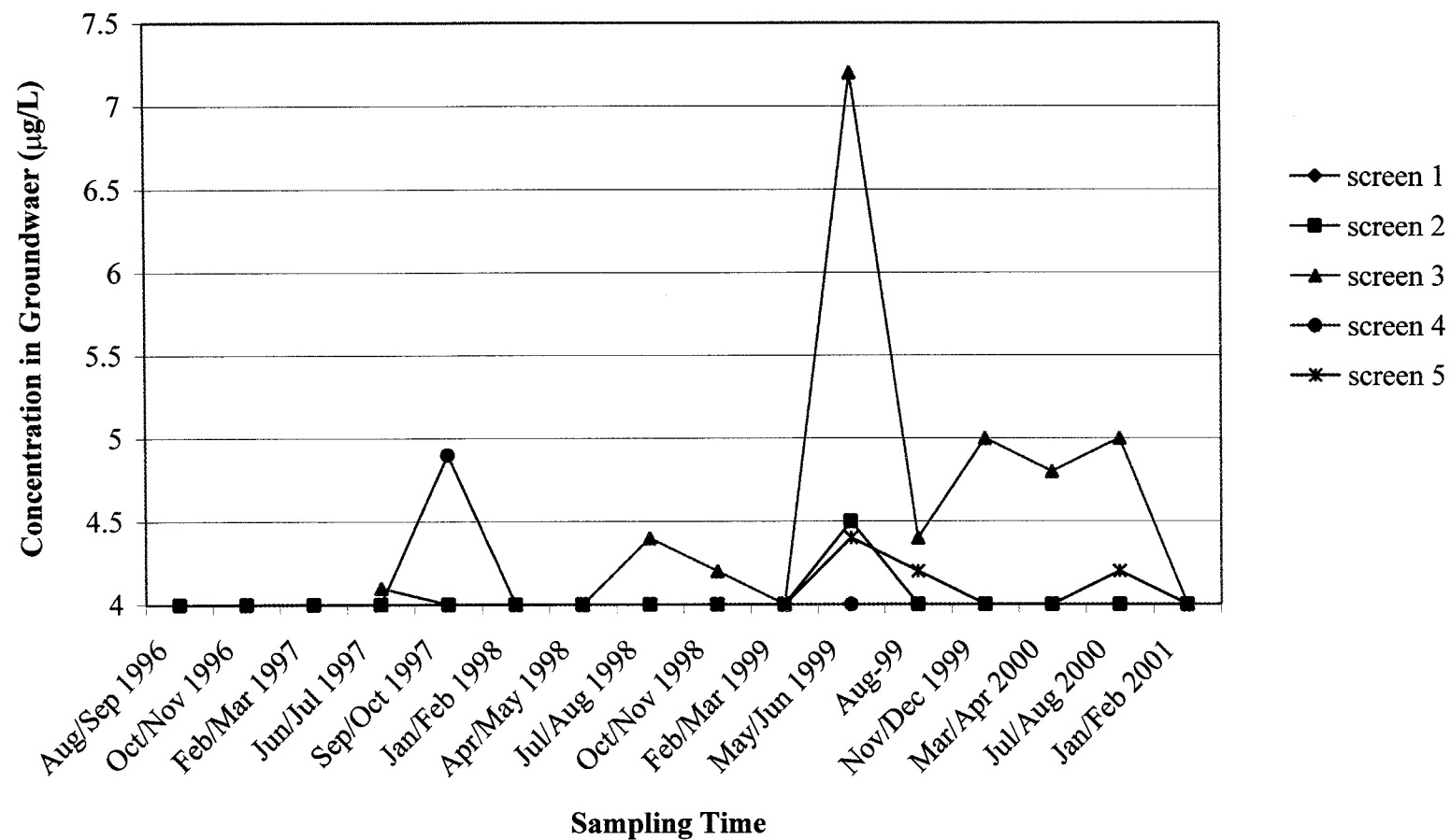
**Figure 3-88** TCE Detected at MW-19 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $4 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



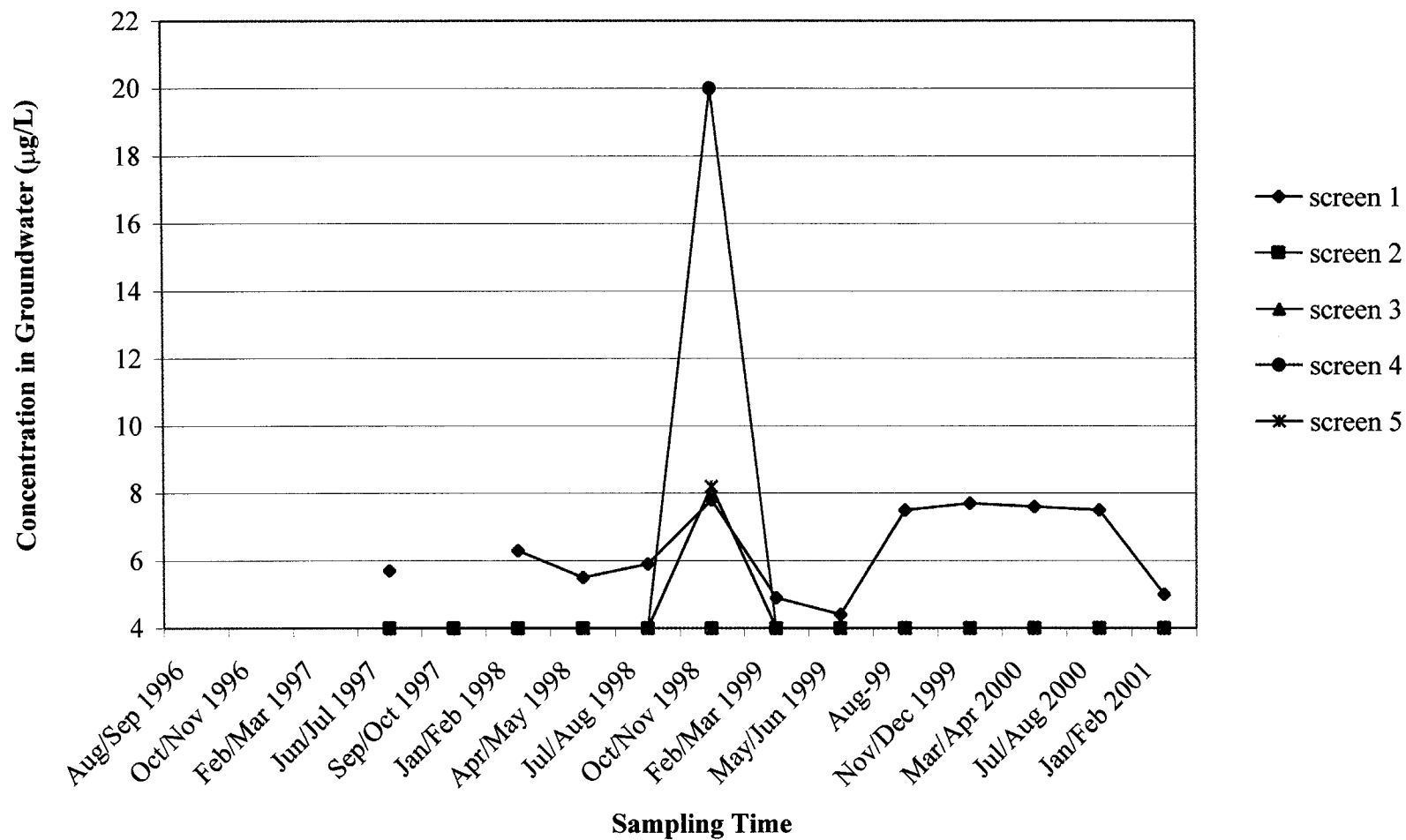
**Figure 3-89** PCE Detected at MW-19 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



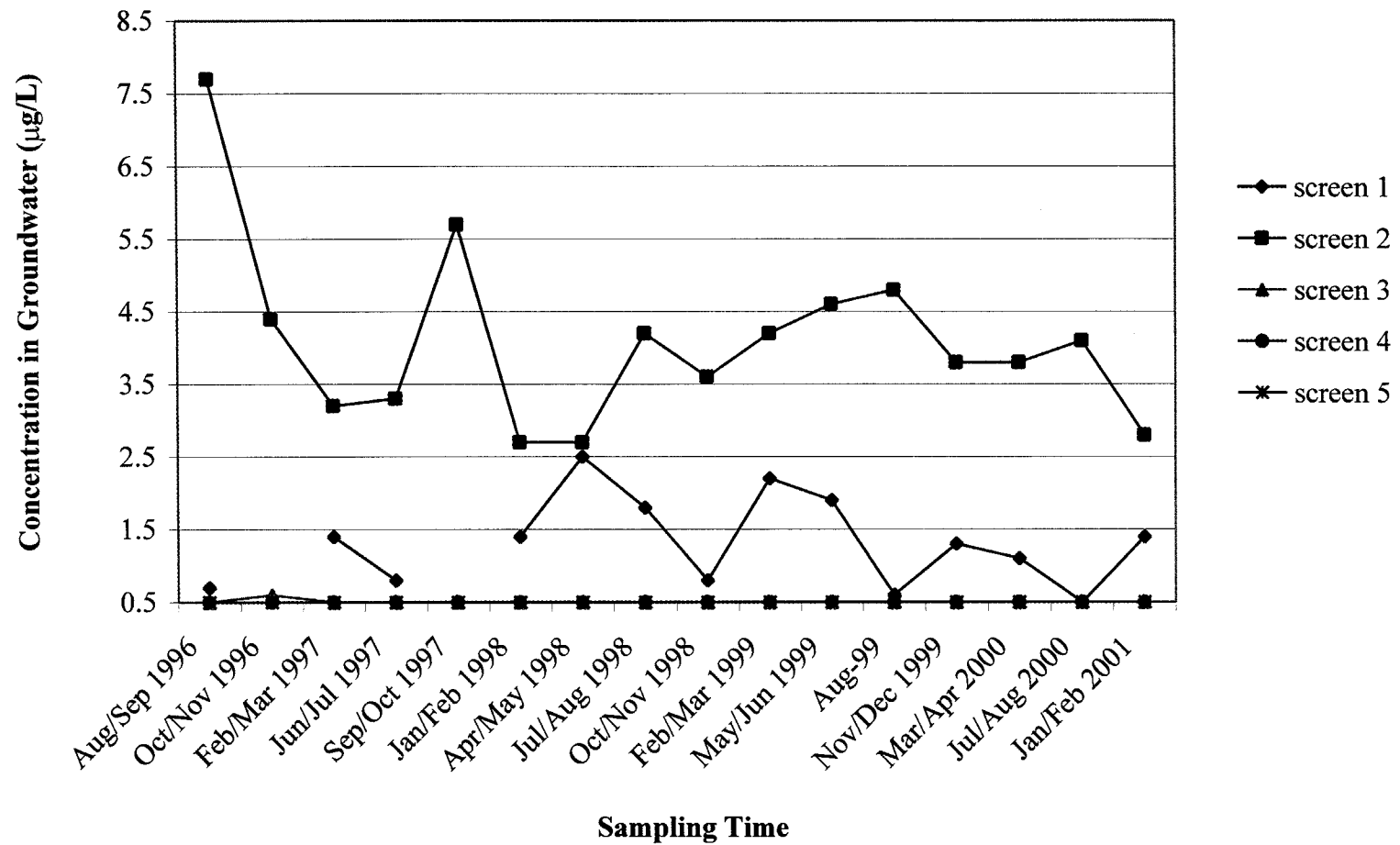
**Figure 3-90** Chloroform Detected at MW-19 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $100 \mu\text{g/L}$ )



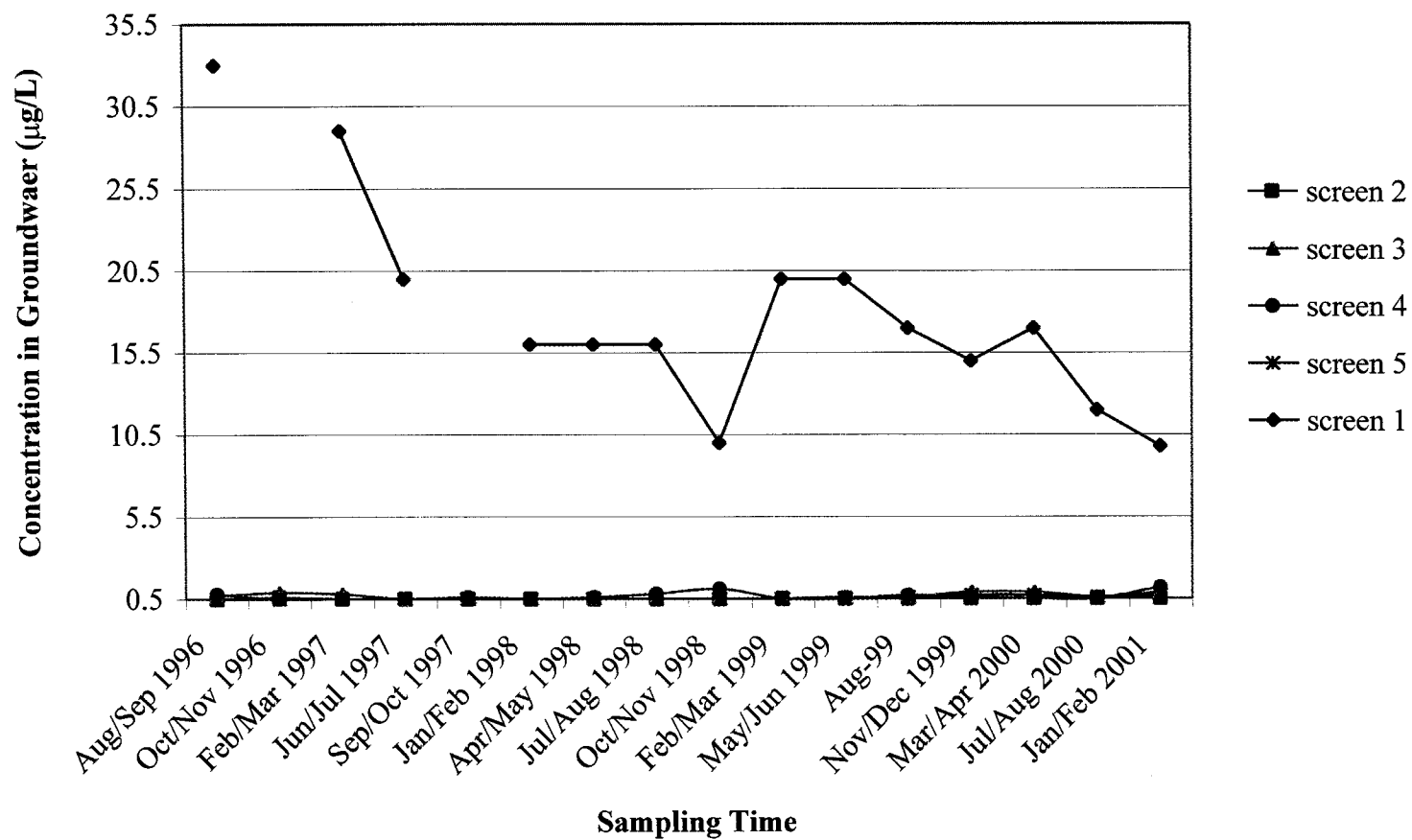
**Figure 3-91** Perchlorate Detected at MW-19 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



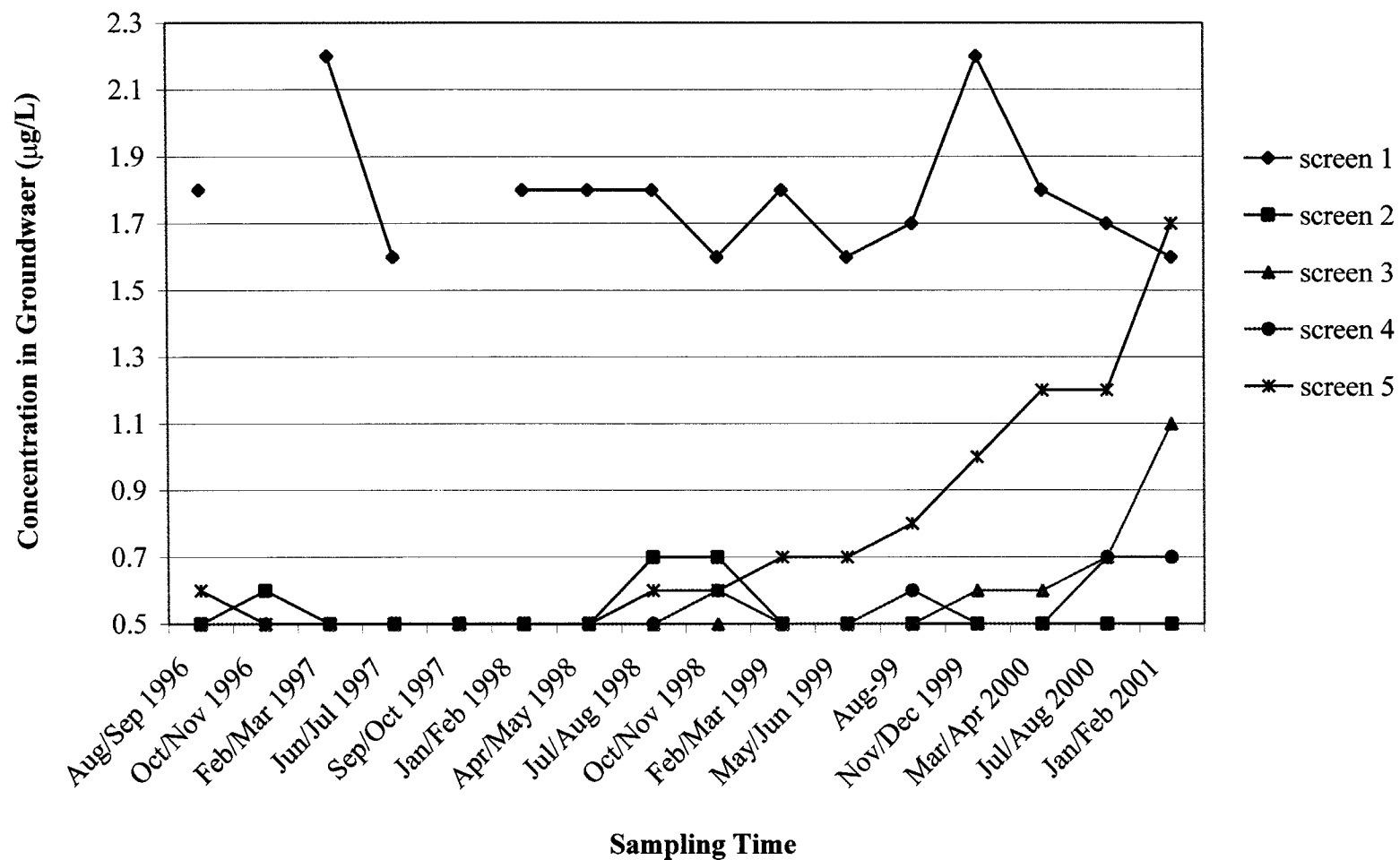
**Figure 3-92** Perchlorate Detected at MW-20 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



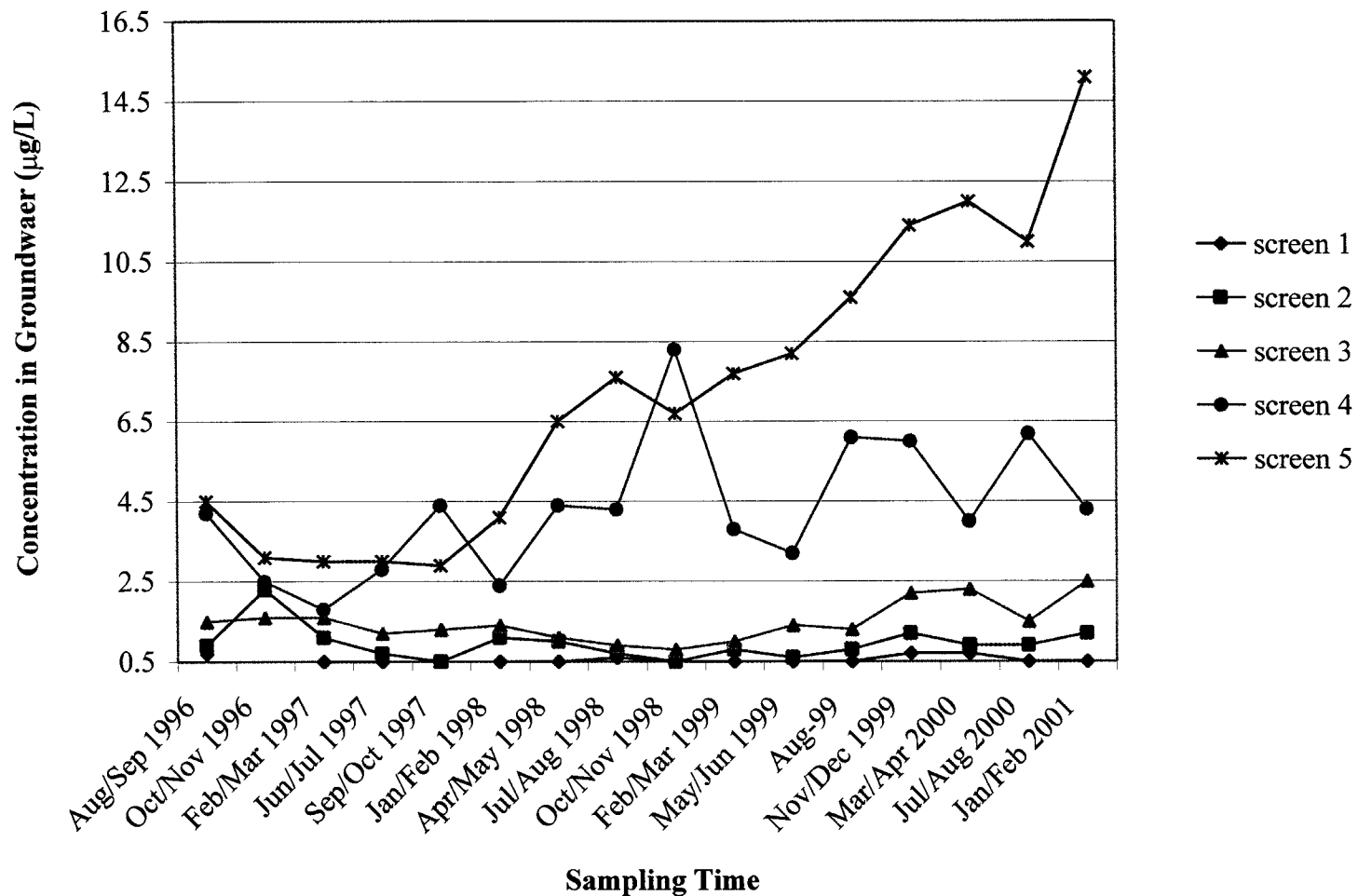
**Figure 3-93** Chloroform Detected at MW-20 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $100 \mu\text{g/L}$ )



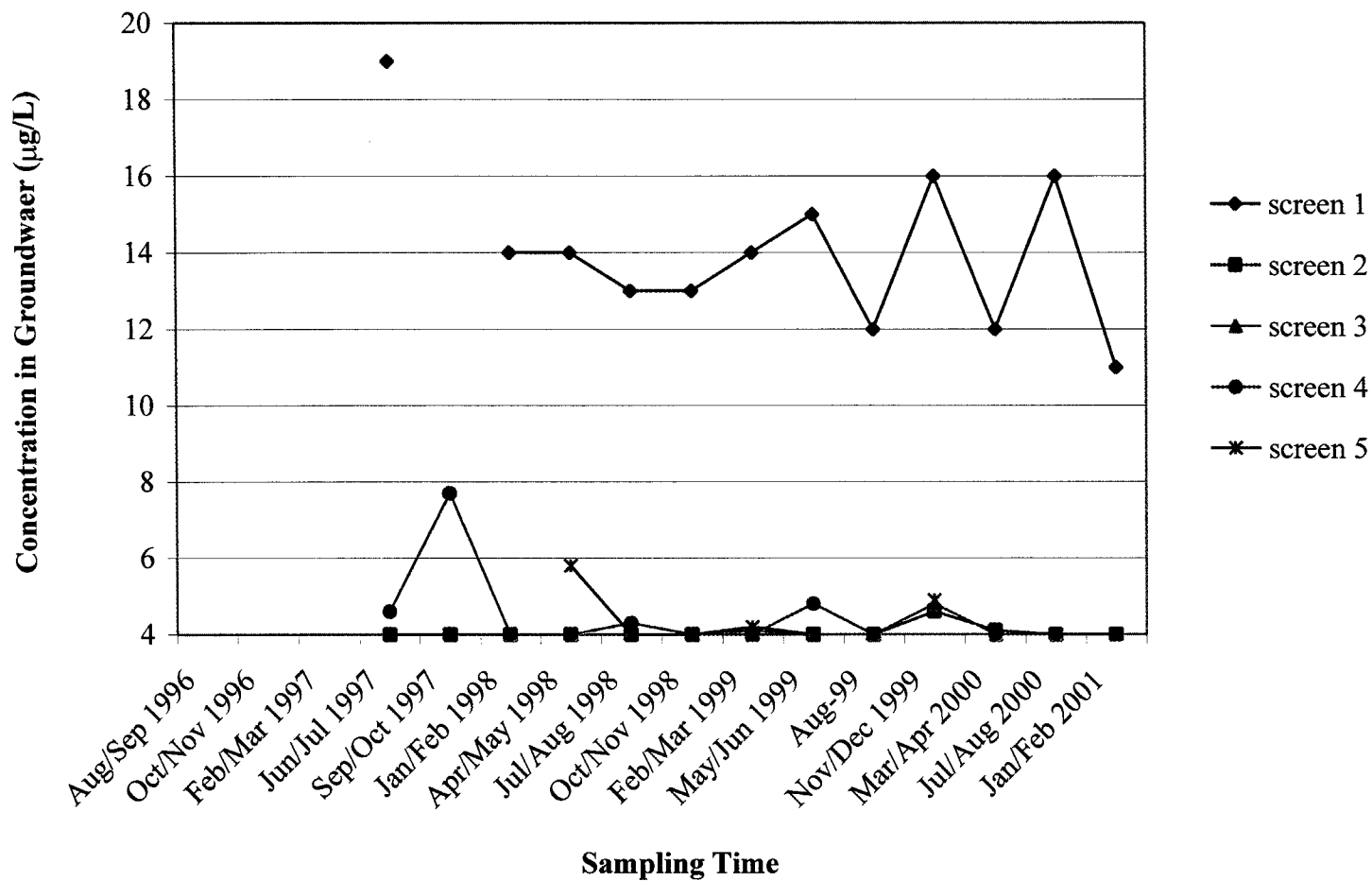
**Figure 3-94** TCE Detected at MW-21 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



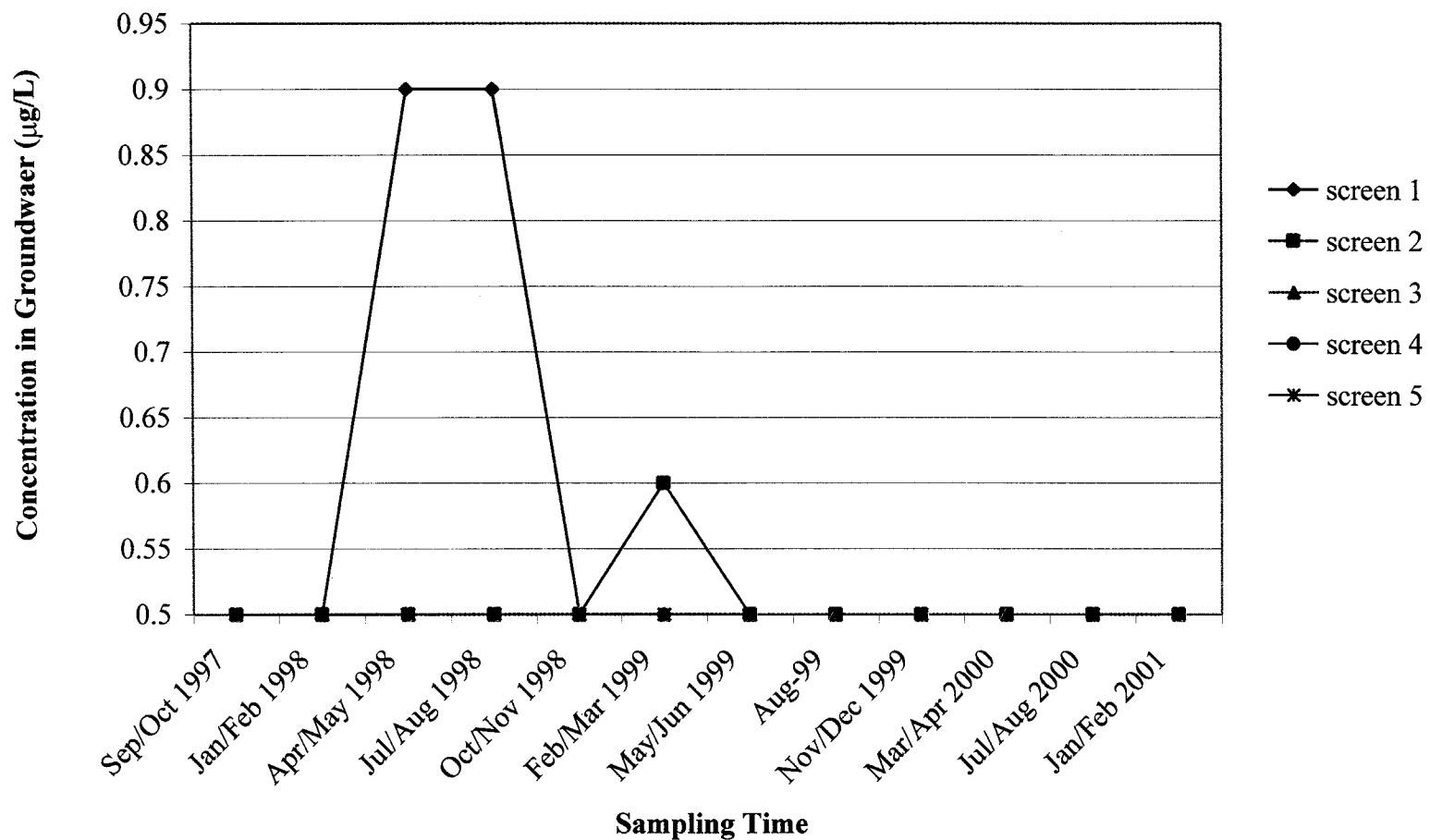
**Figure 3-95** Chloroform Detected at MW-21 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



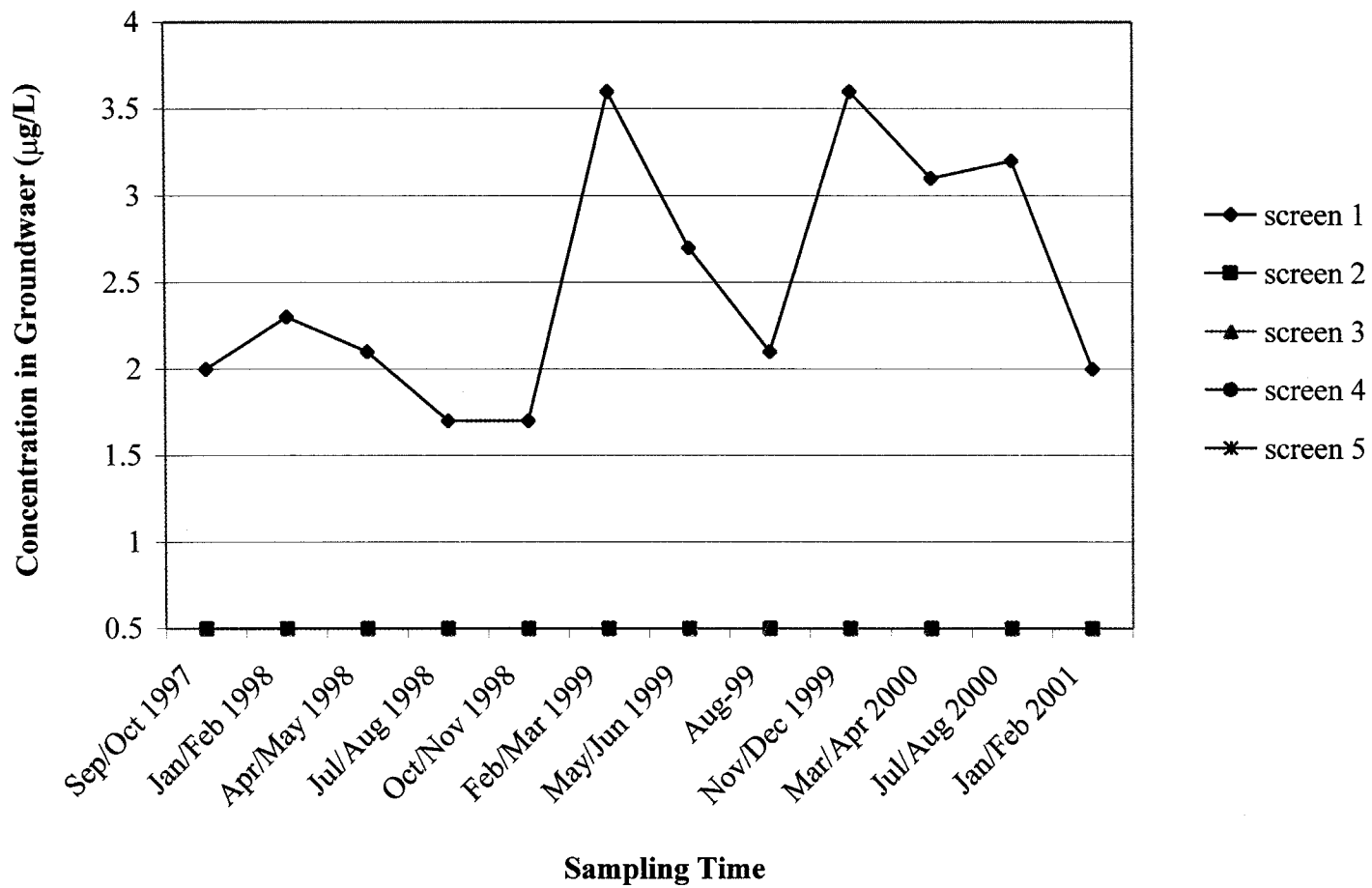
**Figure 3-96** PCE Detected at MW-21 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



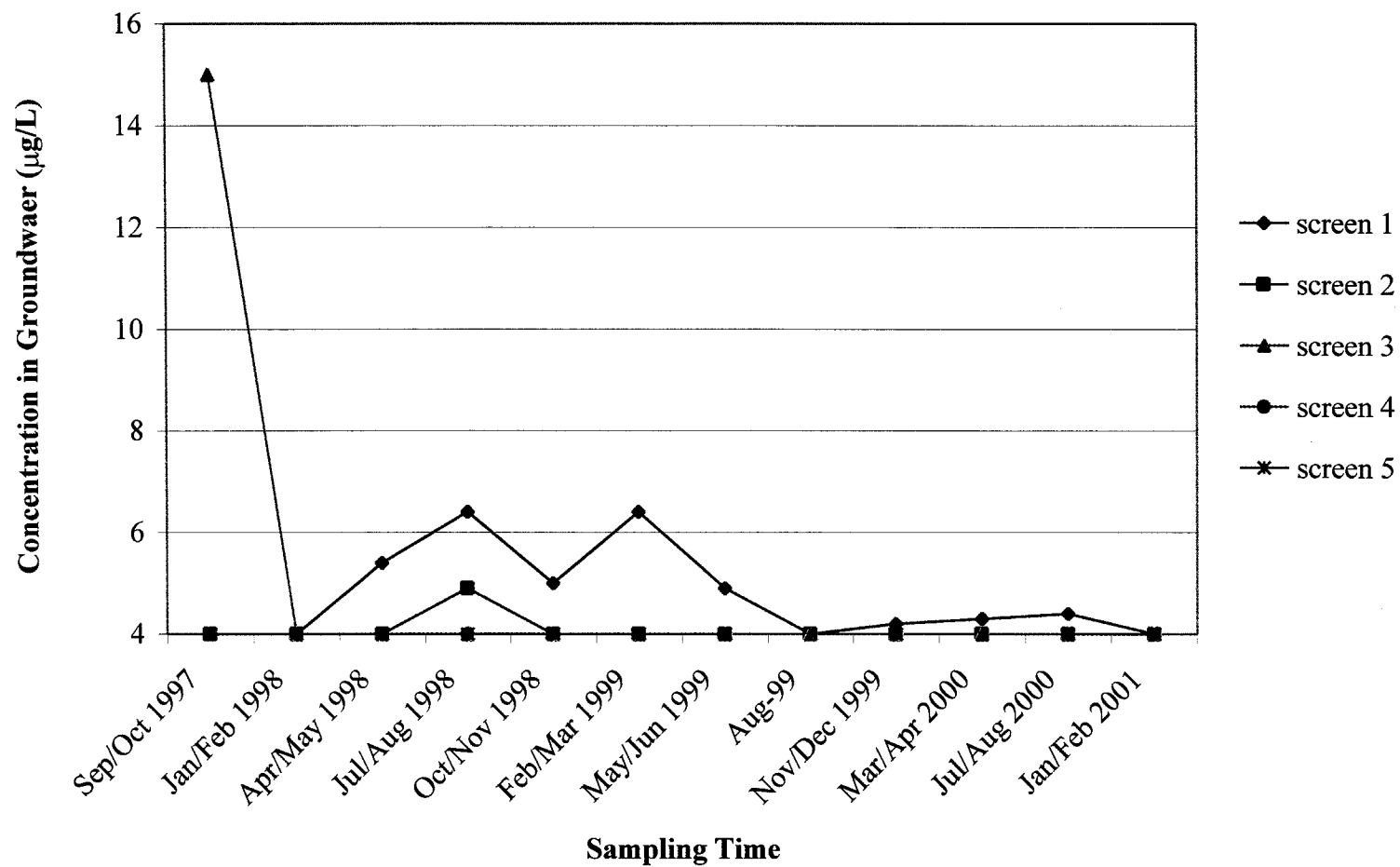
**Figure 3-97** Perchlorate Detected at MW-21 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



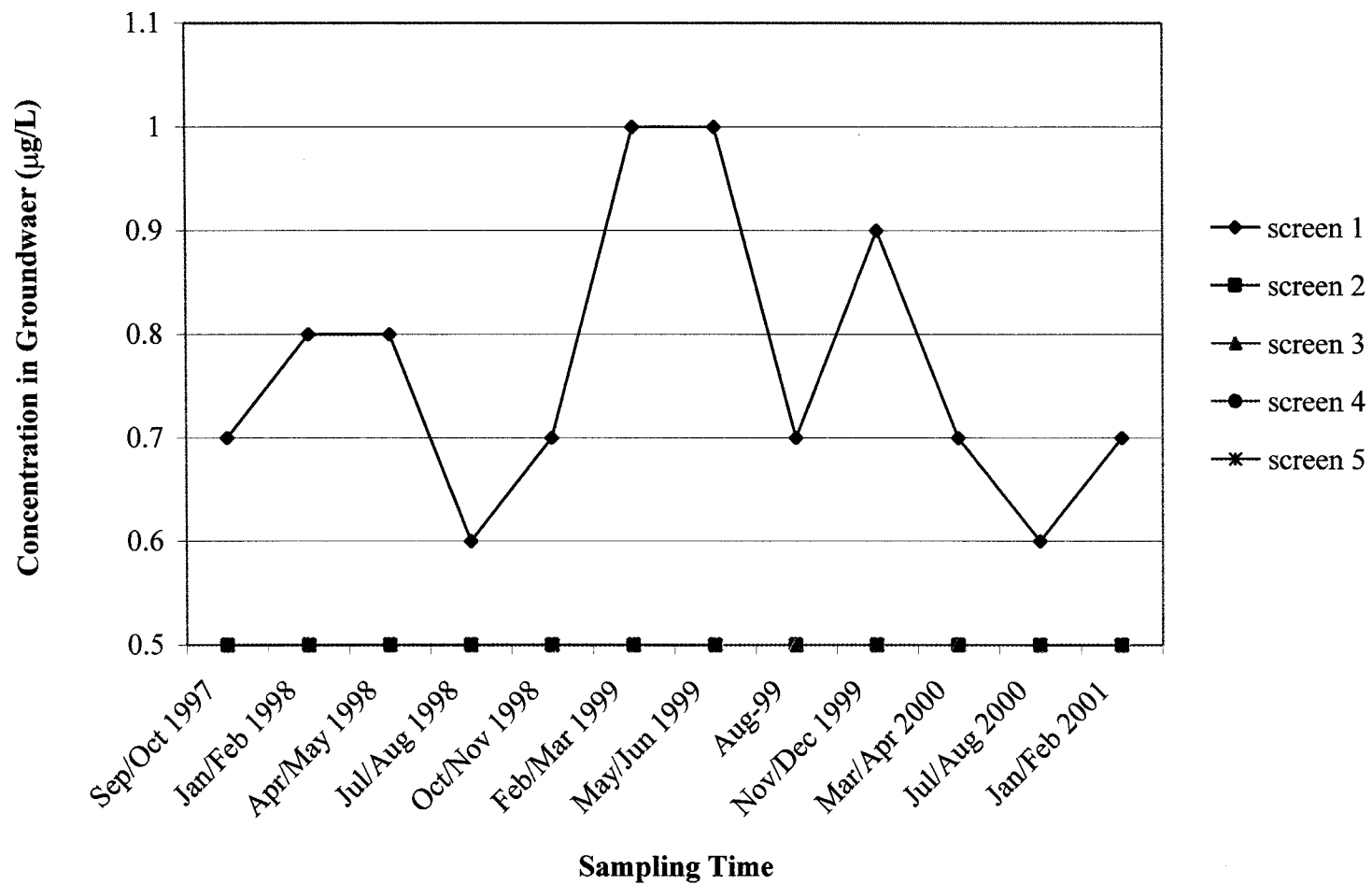
**Figure 3-98** TCE Detected at MW-22 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



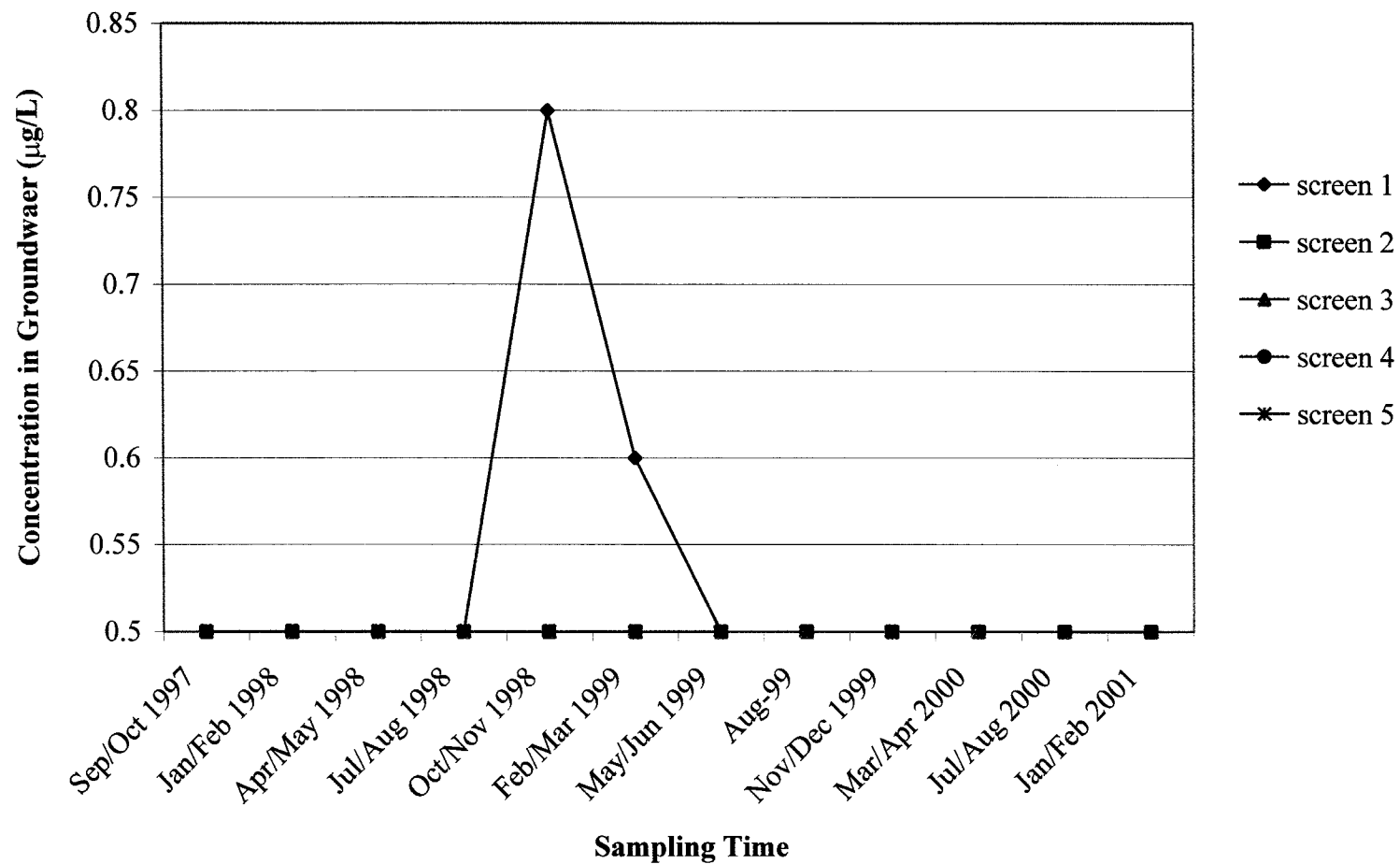
**Figure 3-99** PCE Detected at MW-22 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



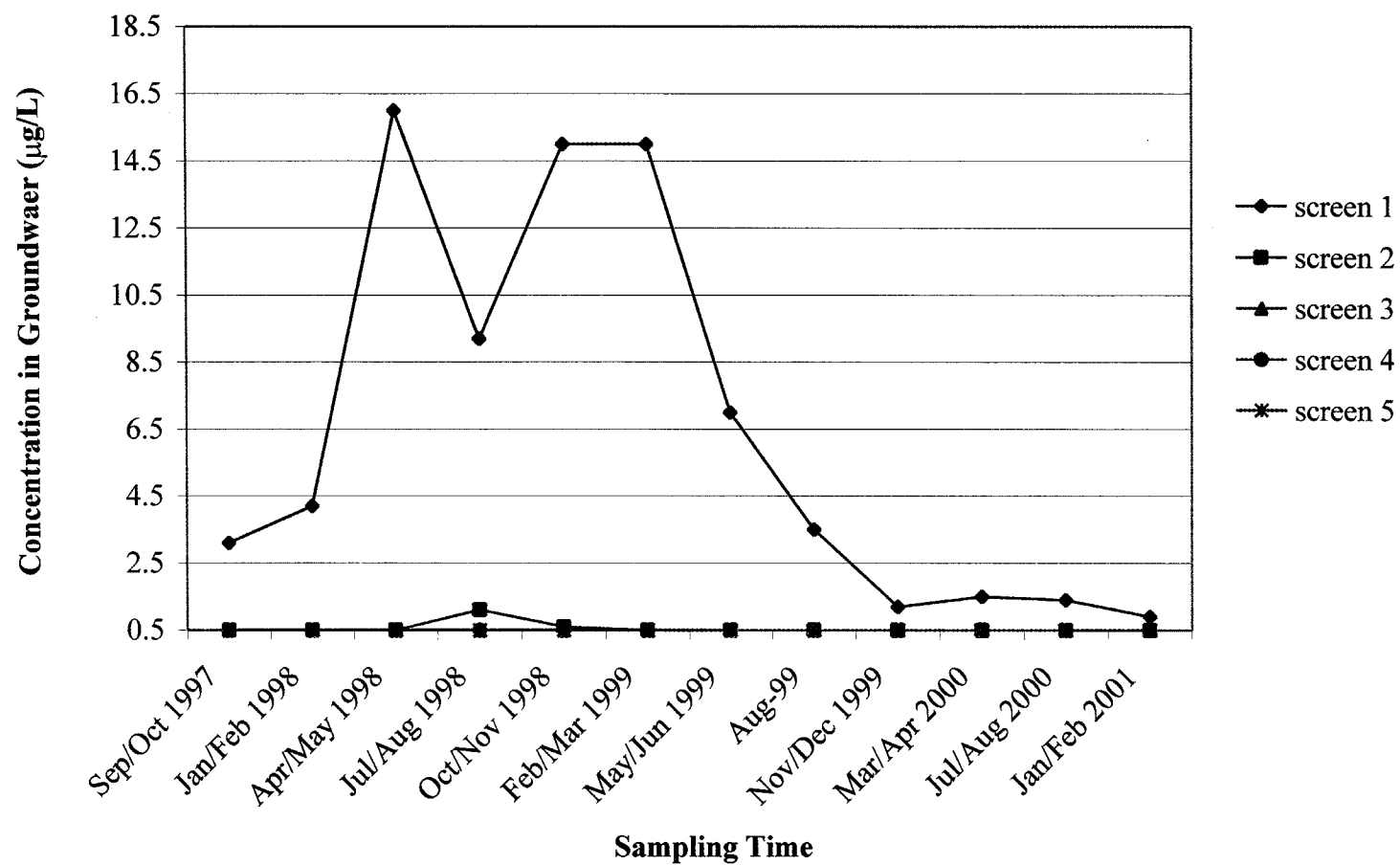
**Figure 3-100** Perchlorate Detected at MW-22 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 4 µg/L, CA IAL = 18 µg/L)



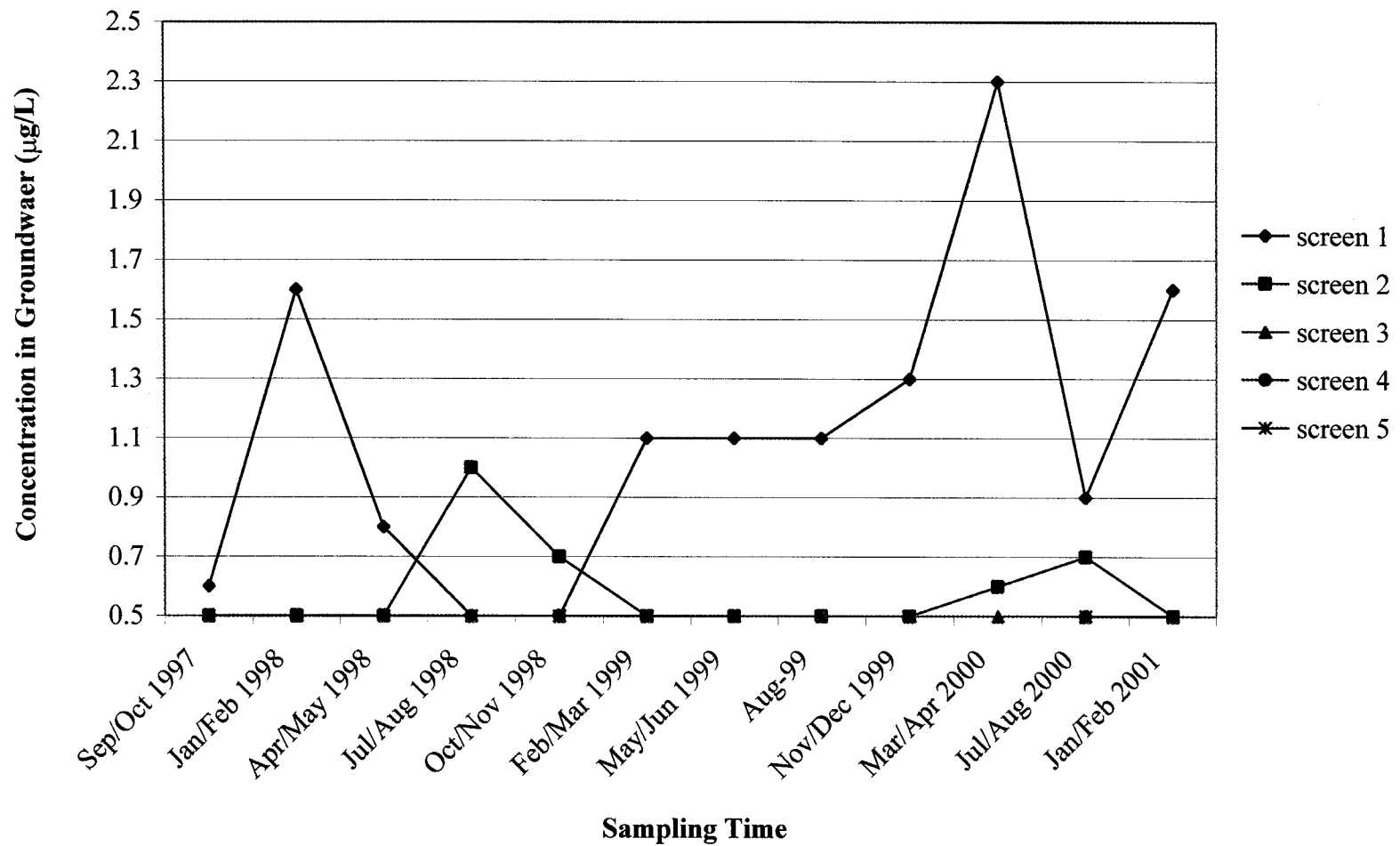
**Figure 3-101** 1,1-DCA Detected at MW-22 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



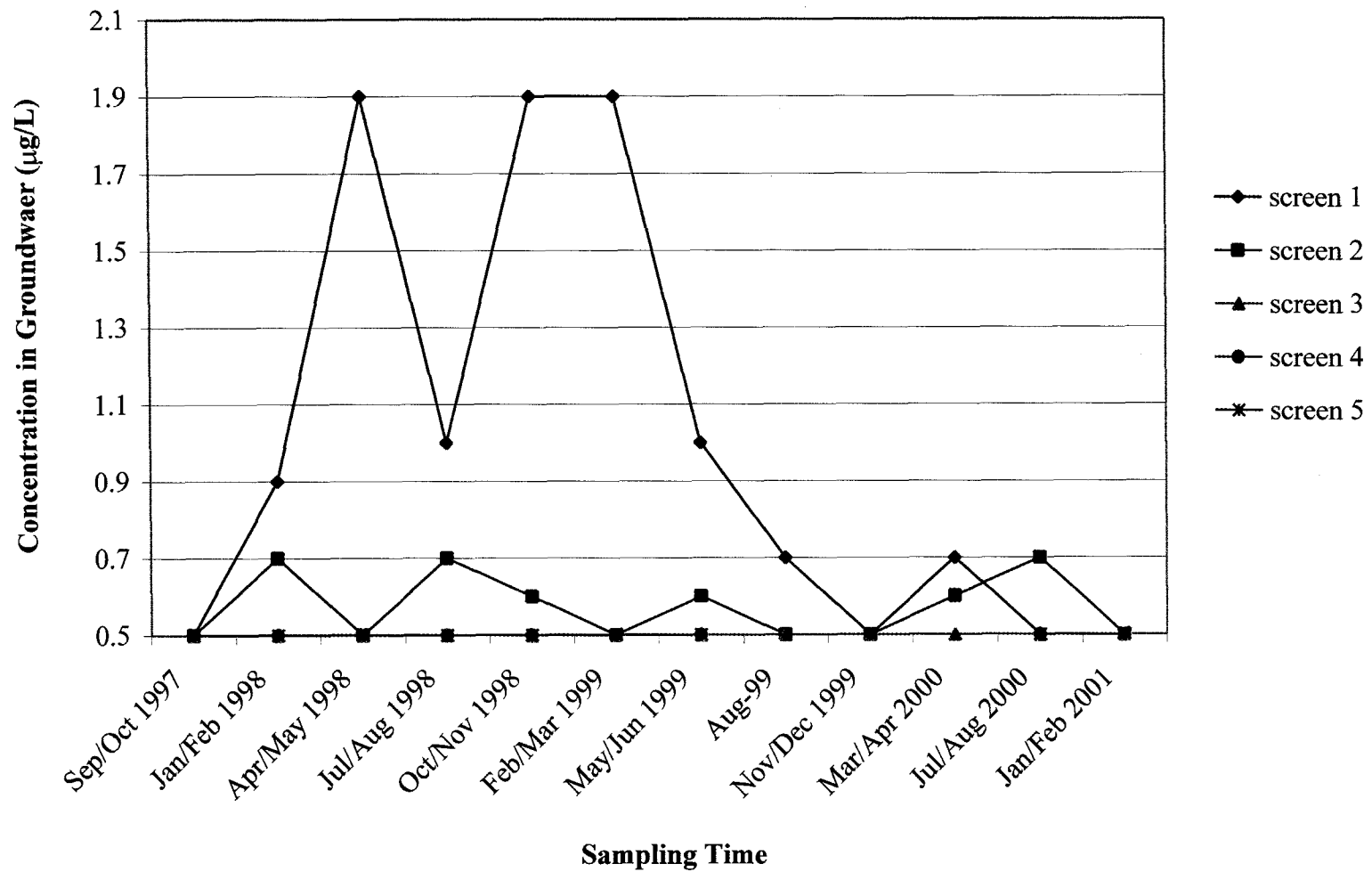
**Figure 3-102** Carbon Tetrachloride Detected at MW-23 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 0.5 µg/L)



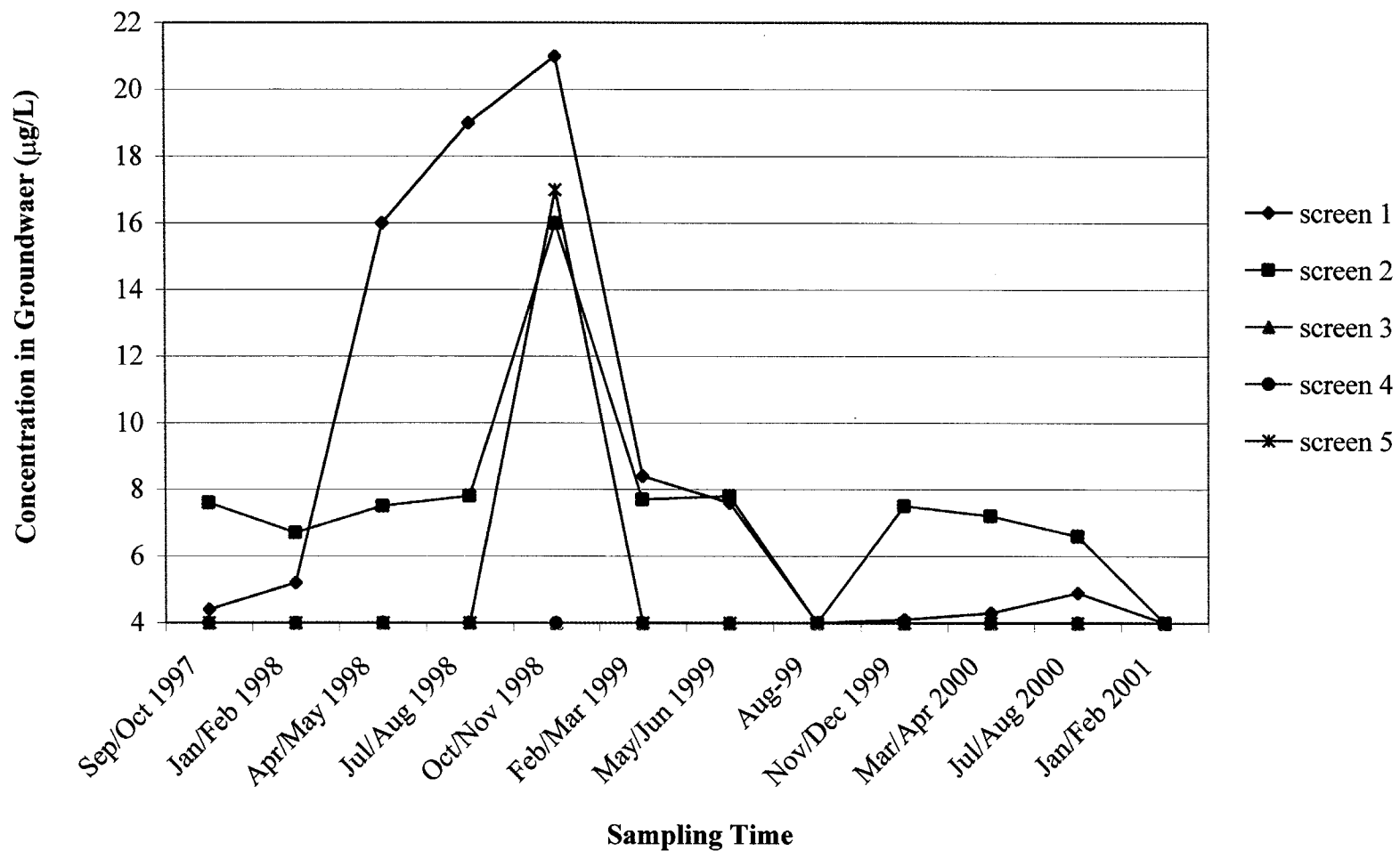
**Figure 3-103** TCE Detected at MW-23 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



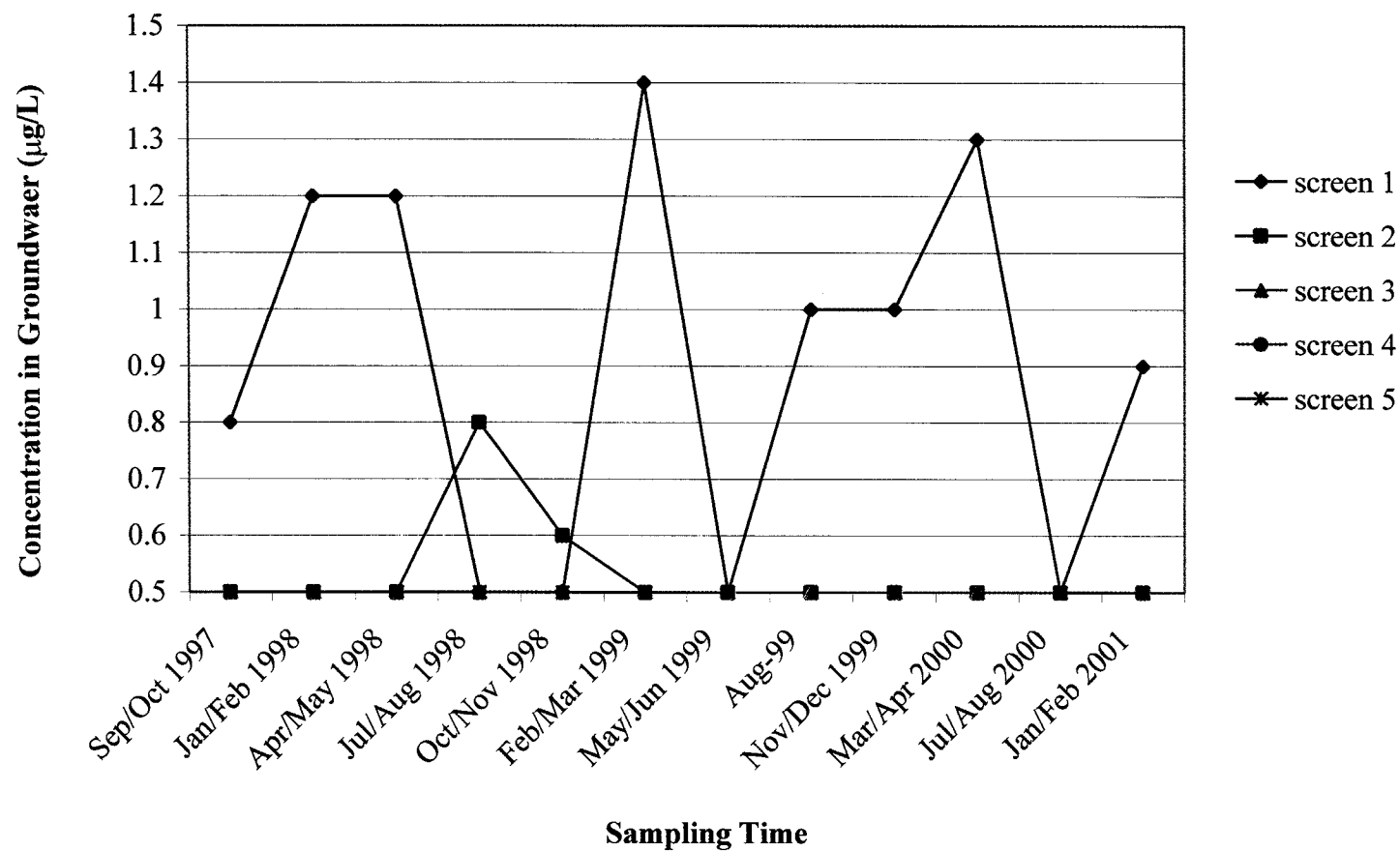
**Figure 3-104** PCE Detected at MW-23 from Aug/Sep 996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



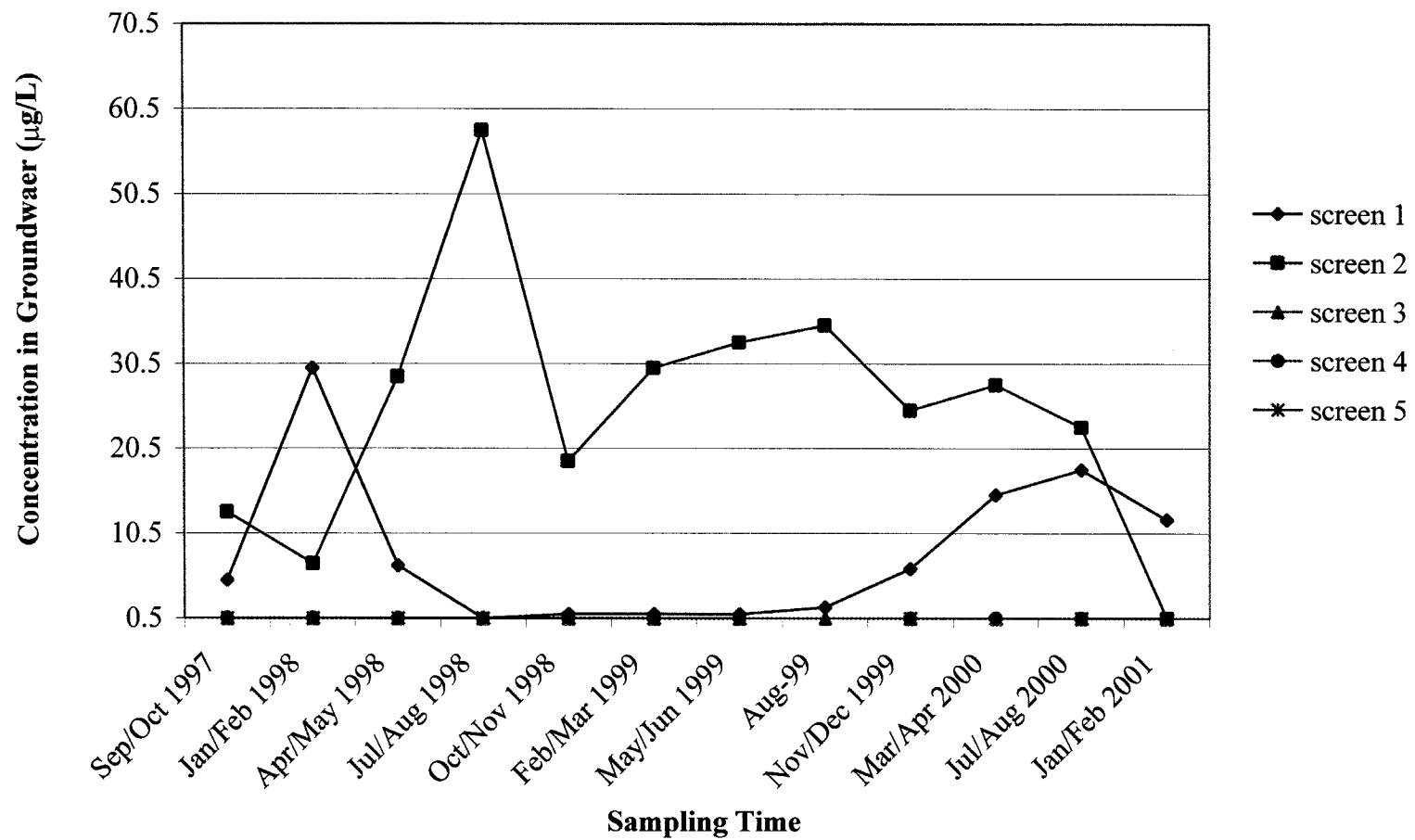
**Figure 3-105** Chloroform Detected at MW-23 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



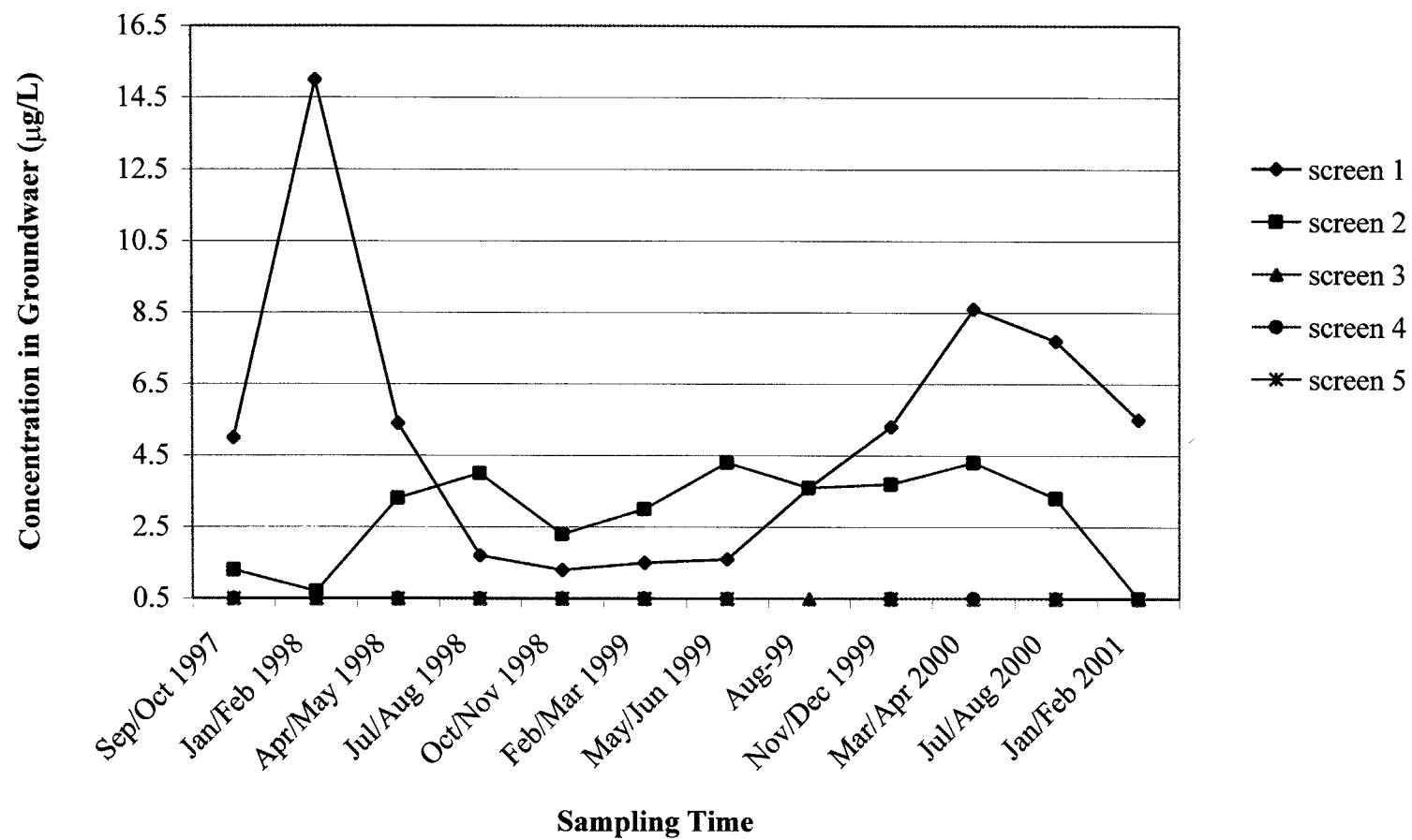
**Figure 3-106** Perchlorate Detected at MW-23 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $4 \mu\text{g/L}$ , CA IAL =  $18 \mu\text{g/L}$ )



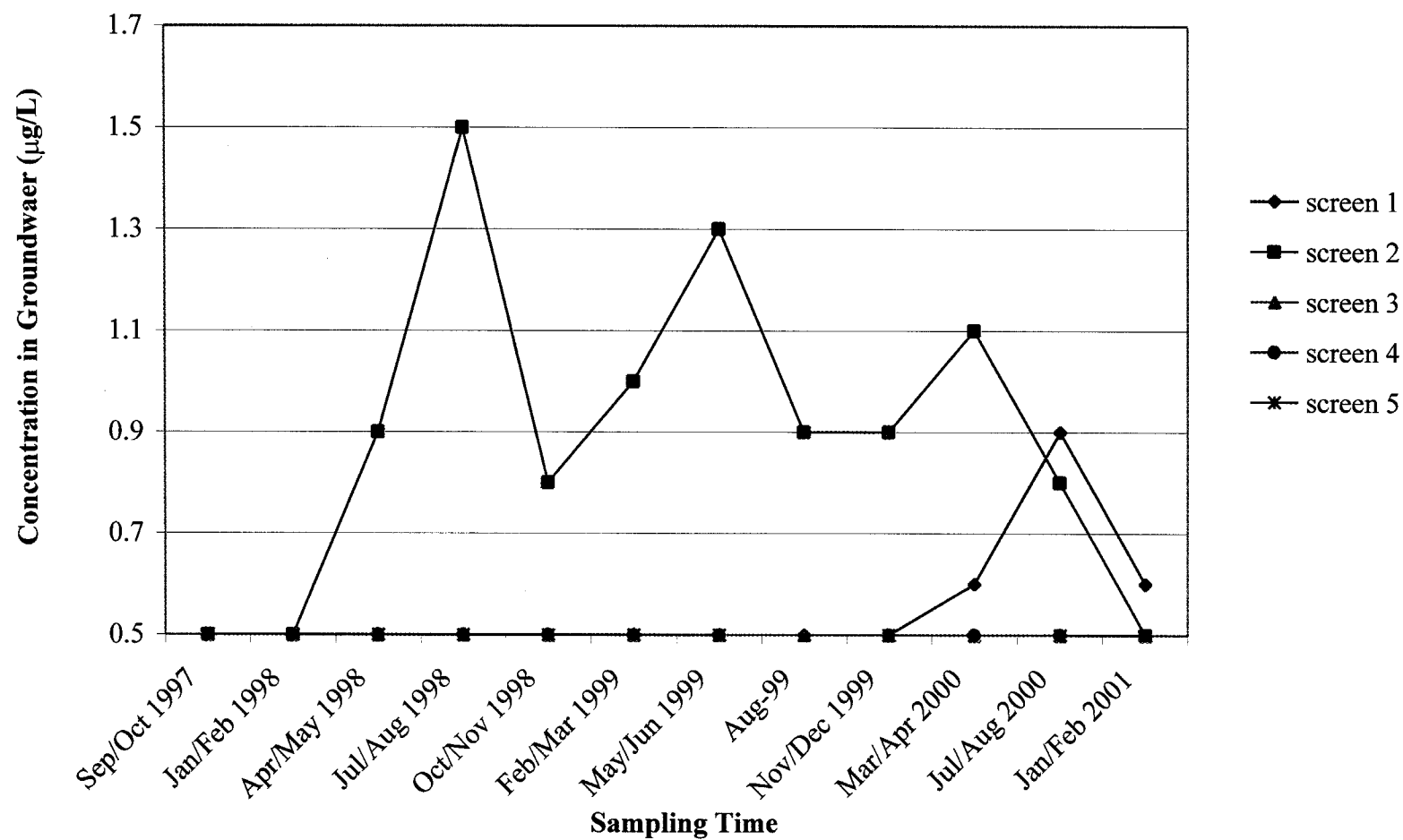
**Figure 3-107** 1,1-DCA Detected at MW-23 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



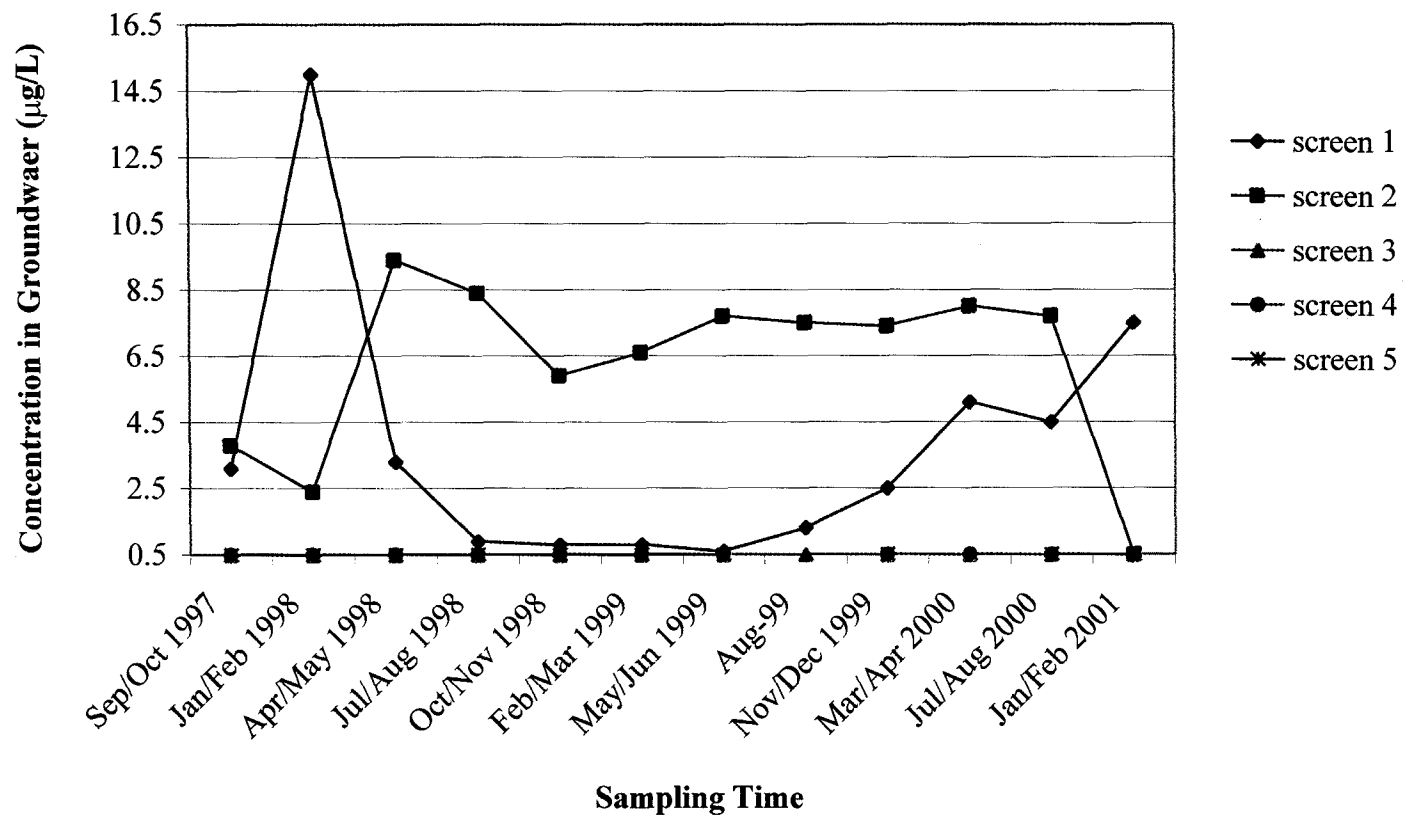
**Figure 3-108** Carbon Tetrachloride Detected at MW-24 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 0.5 µg/L)



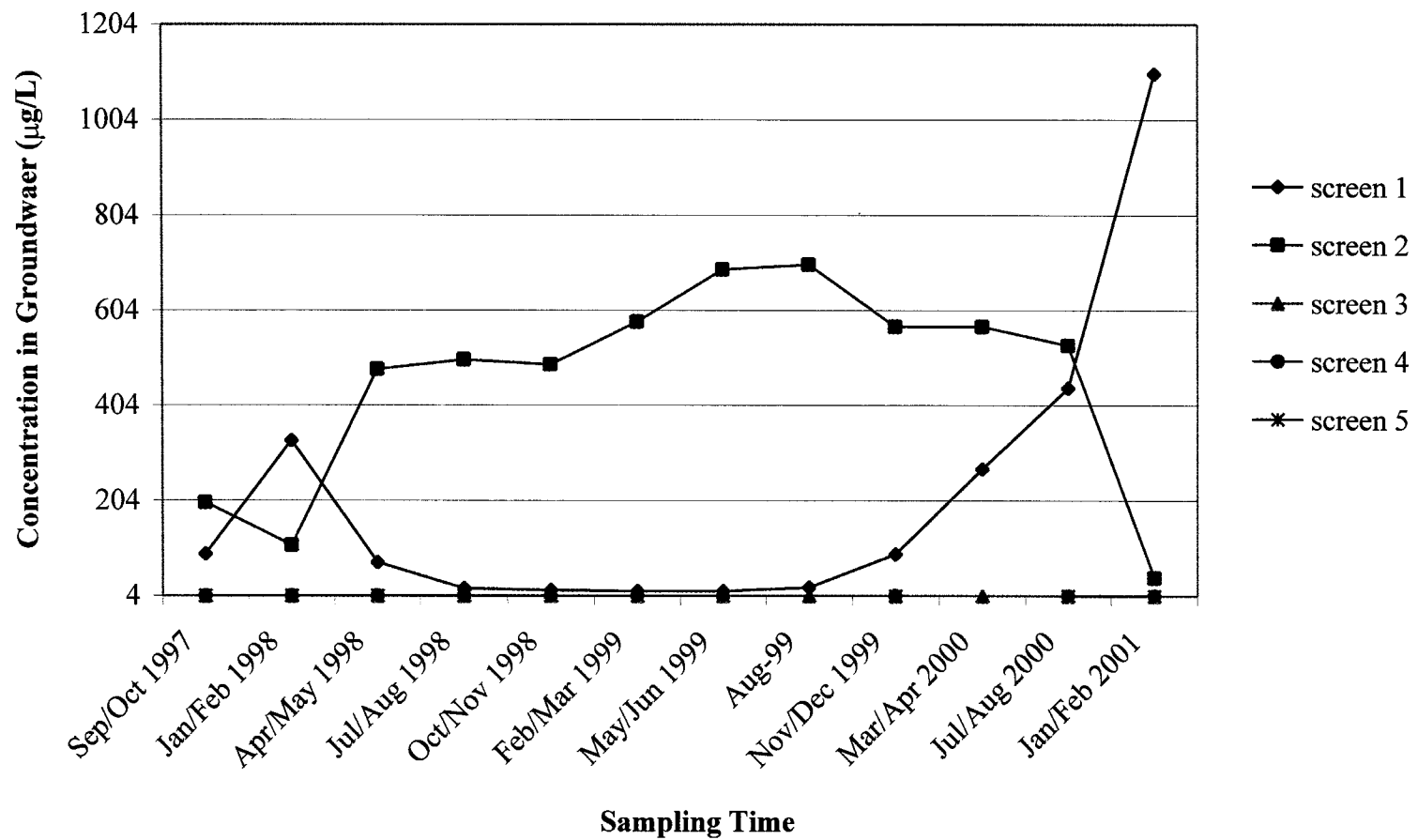
**Figure 3-109** TCE Detected at MW-24 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 5 µg/L)



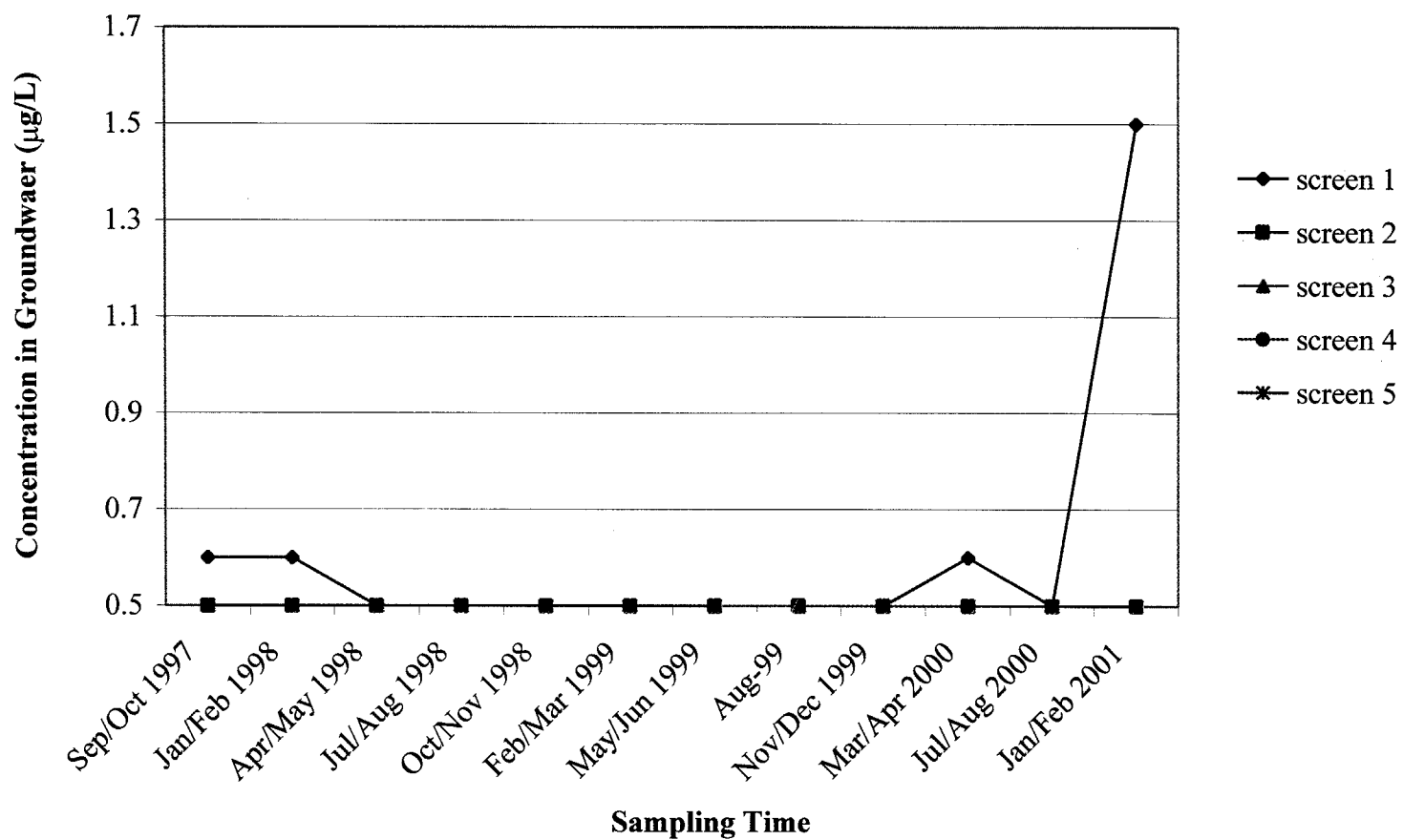
**Figure 3-110** PCE Detected at MW-24 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $0.5 \mu\text{g/L}$ , CA MCL =  $5 \mu\text{g/L}$ )



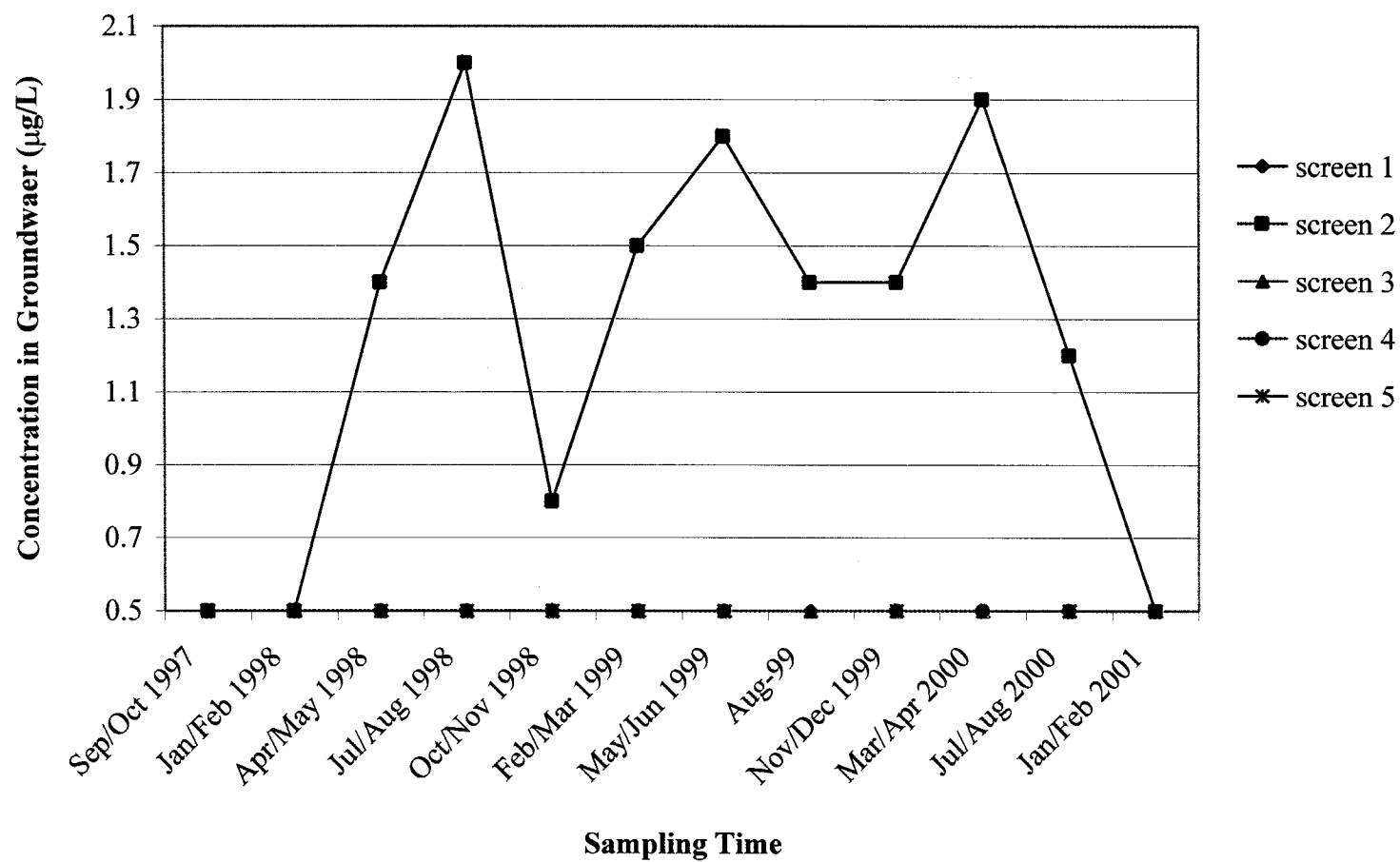
**Figure 3-111** Chloroform Detected at MW-24 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 100 µg/L)



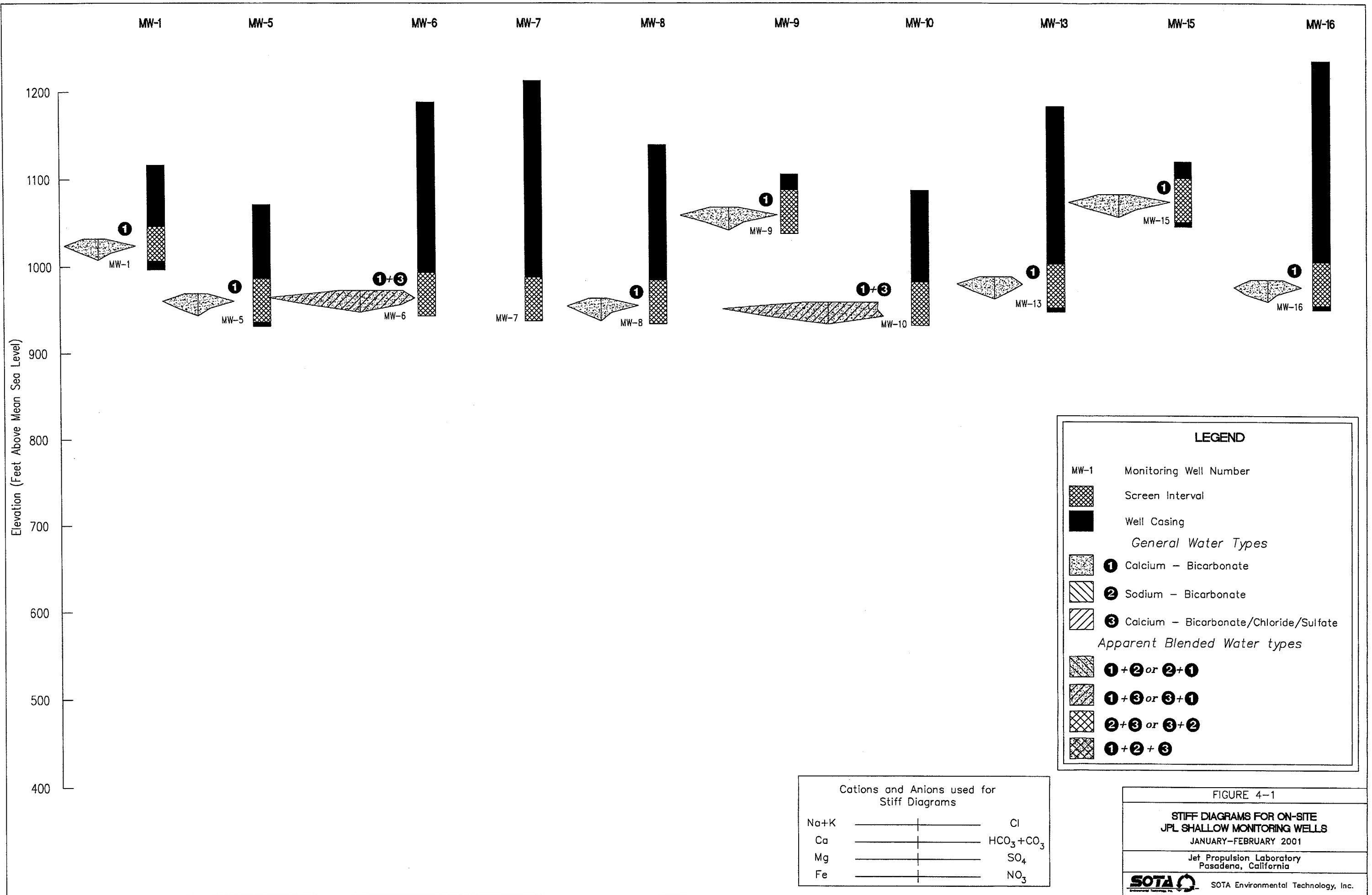
**Figure 3-112** Perchlorate Detected at MW-24 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit =  $4 \mu\text{g/L}$ , CA IAL =  $18 \mu\text{g/L}$ )

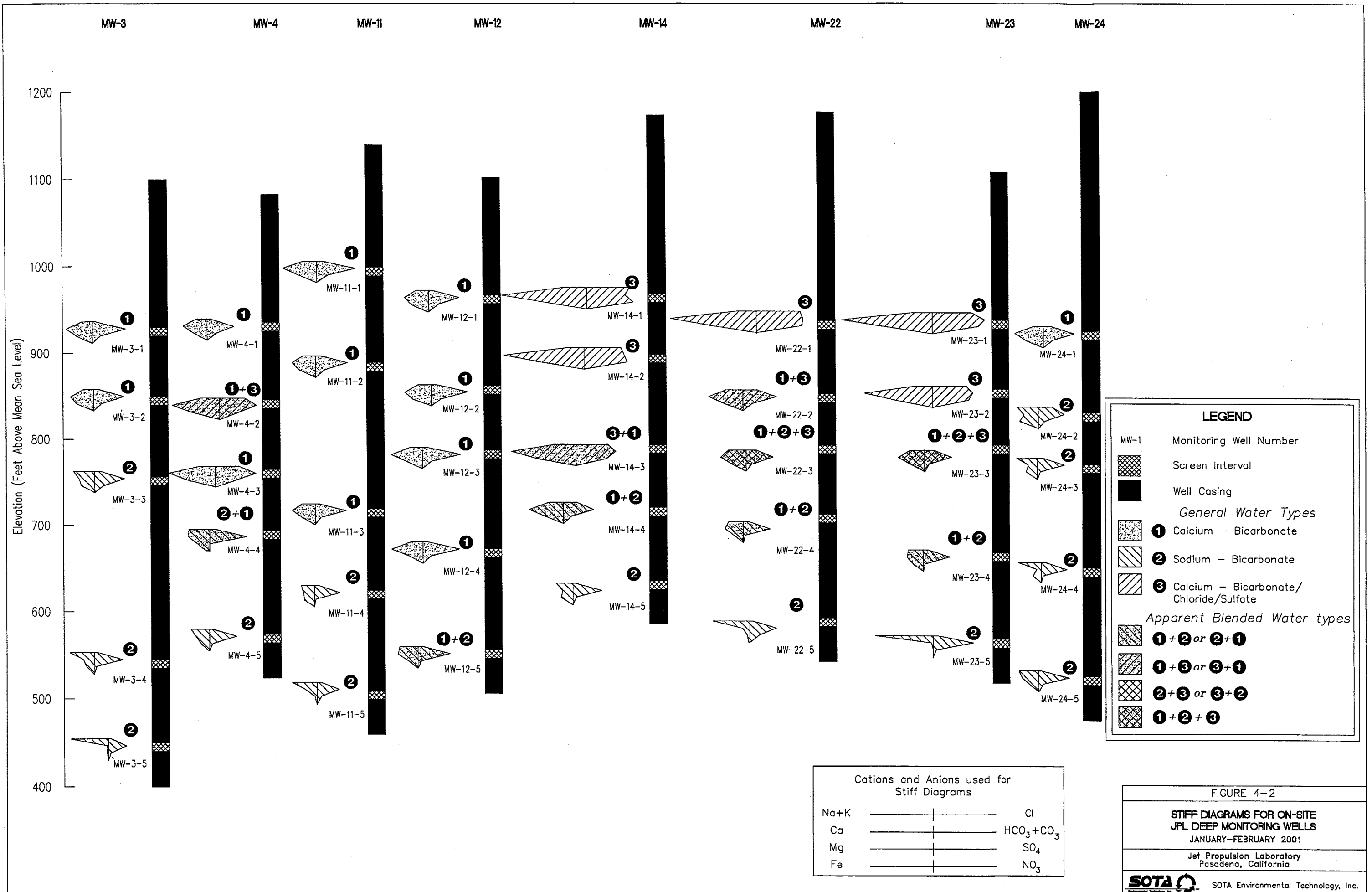


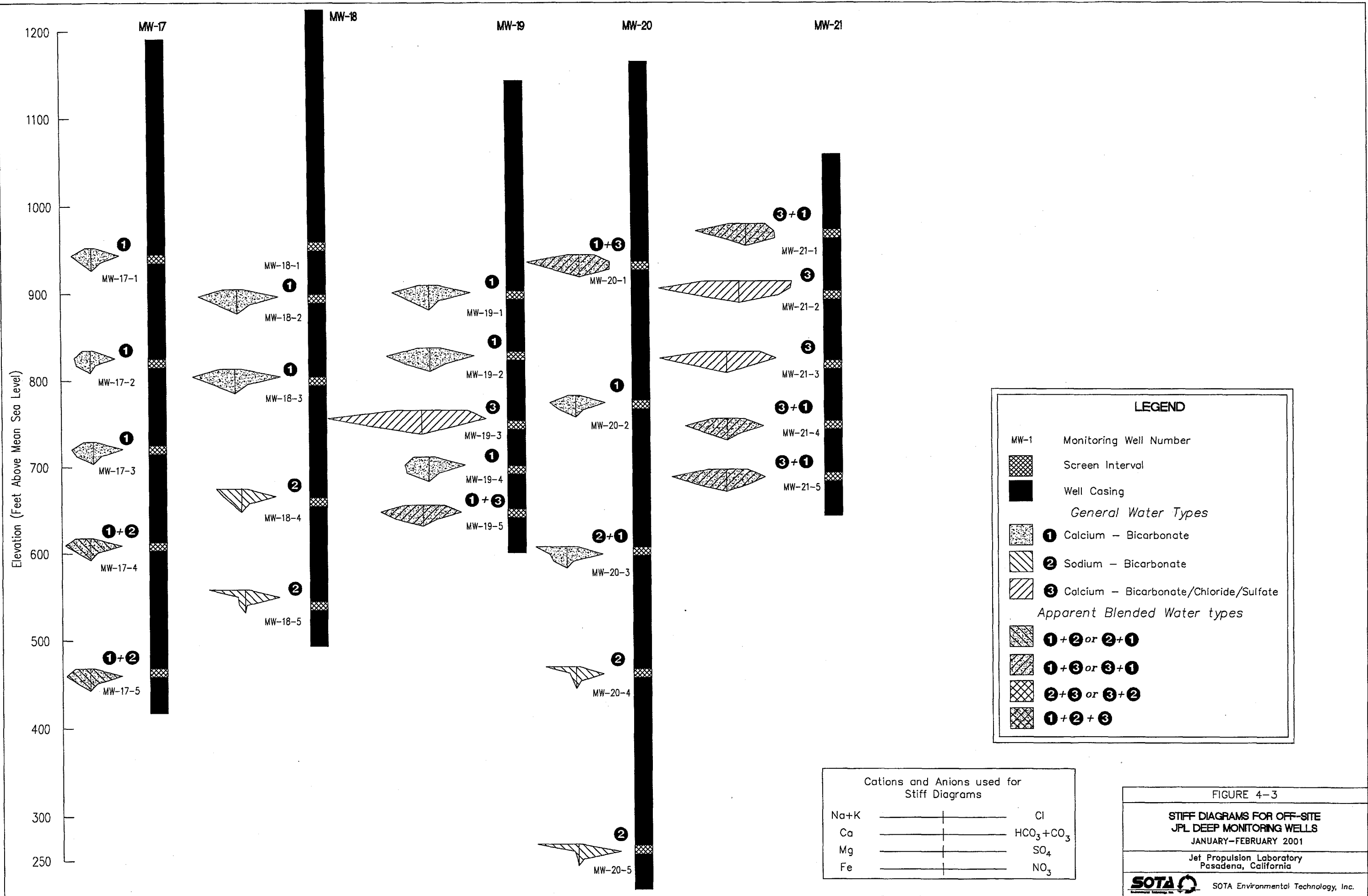
**Figure 3-113** Freon 113 Detected at MW-24 from Aug/Sep1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 1,200 µg/L)



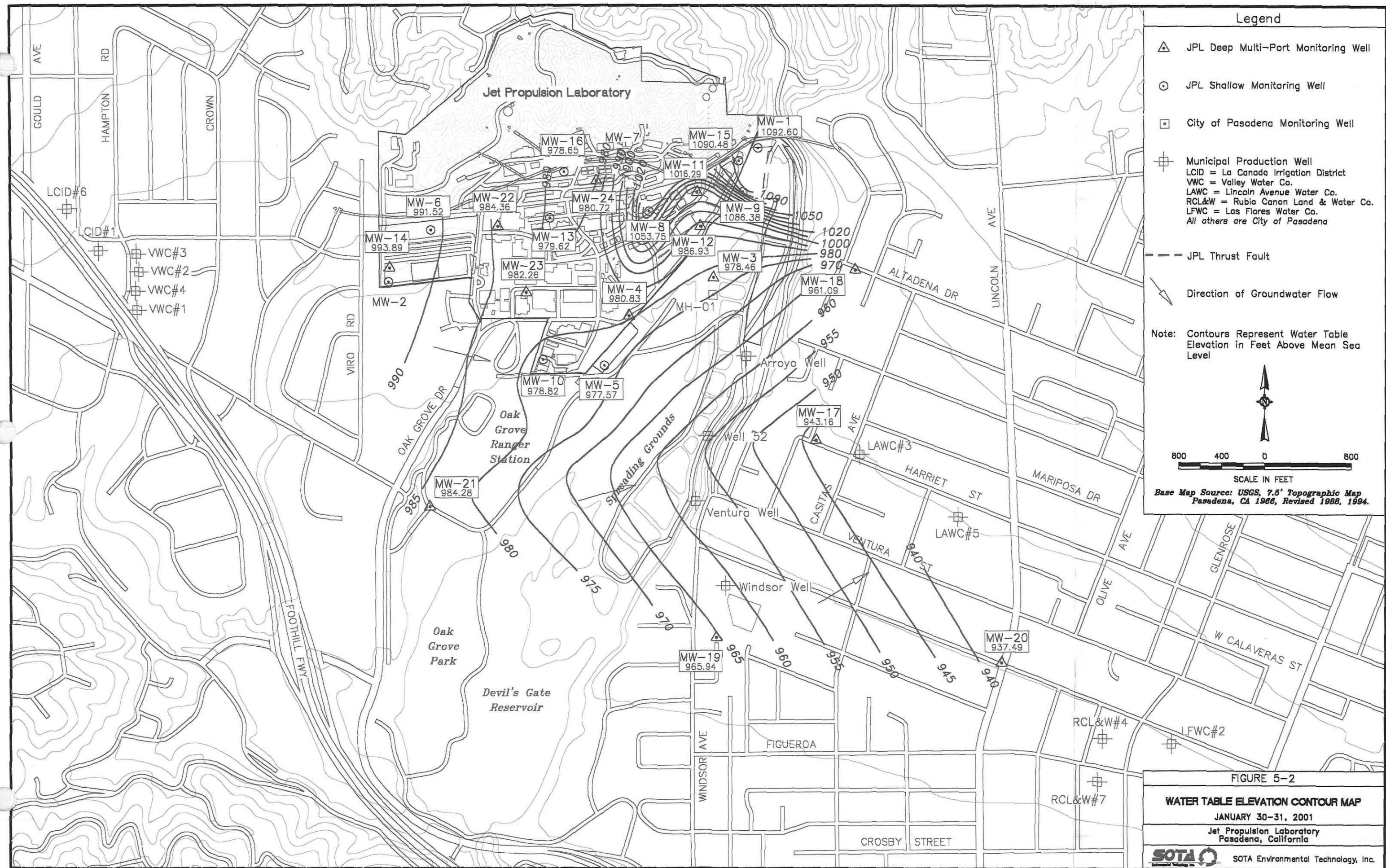
**Figure 3-114** 1,1-DCE Detected at MW-24 from Aug/Sep 1996 to Jan/Feb 2001  
(Laboratory Practical Quantitation Limit = 0.5 µg/L, CA MCL = 6 µg/L)



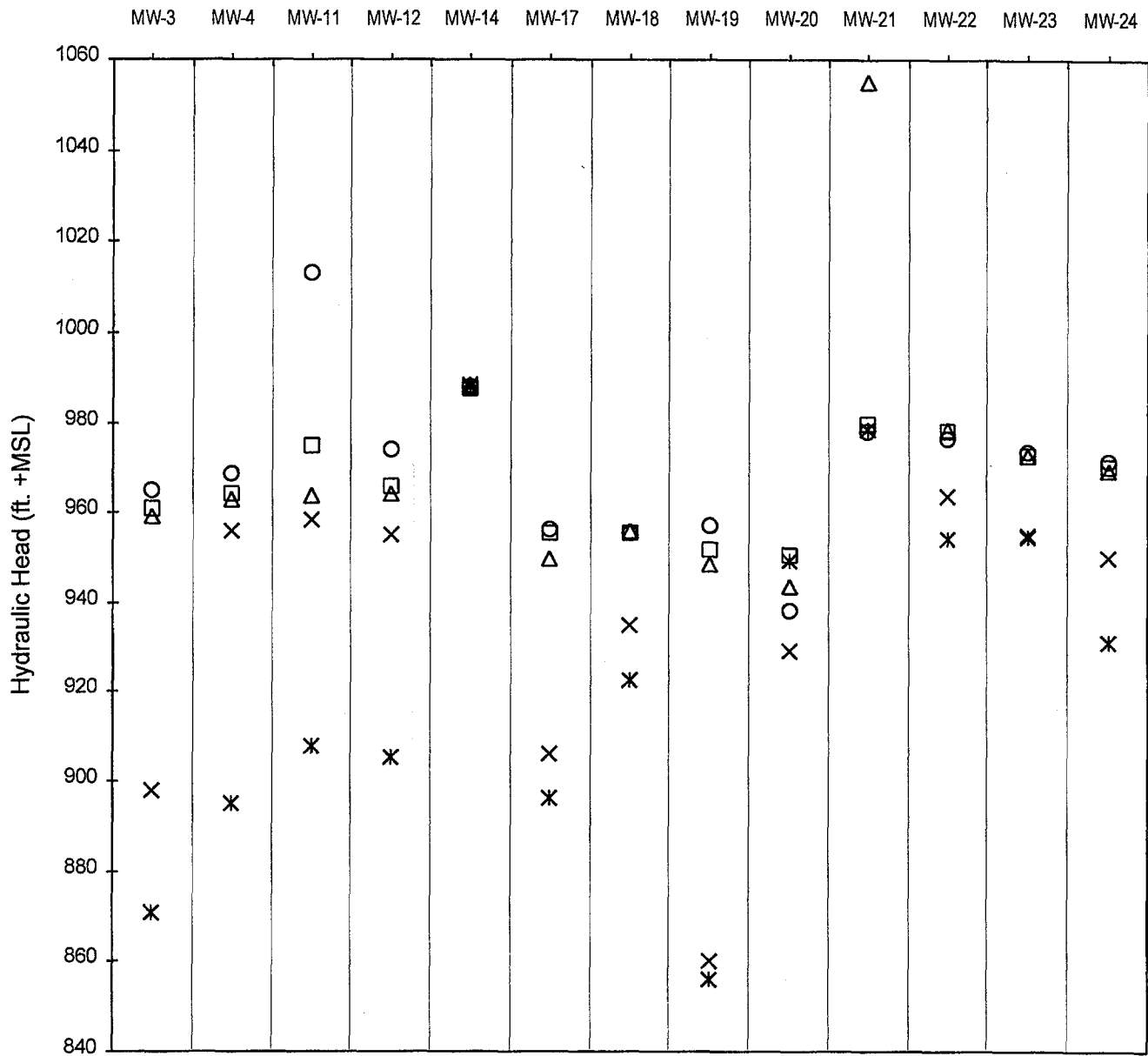








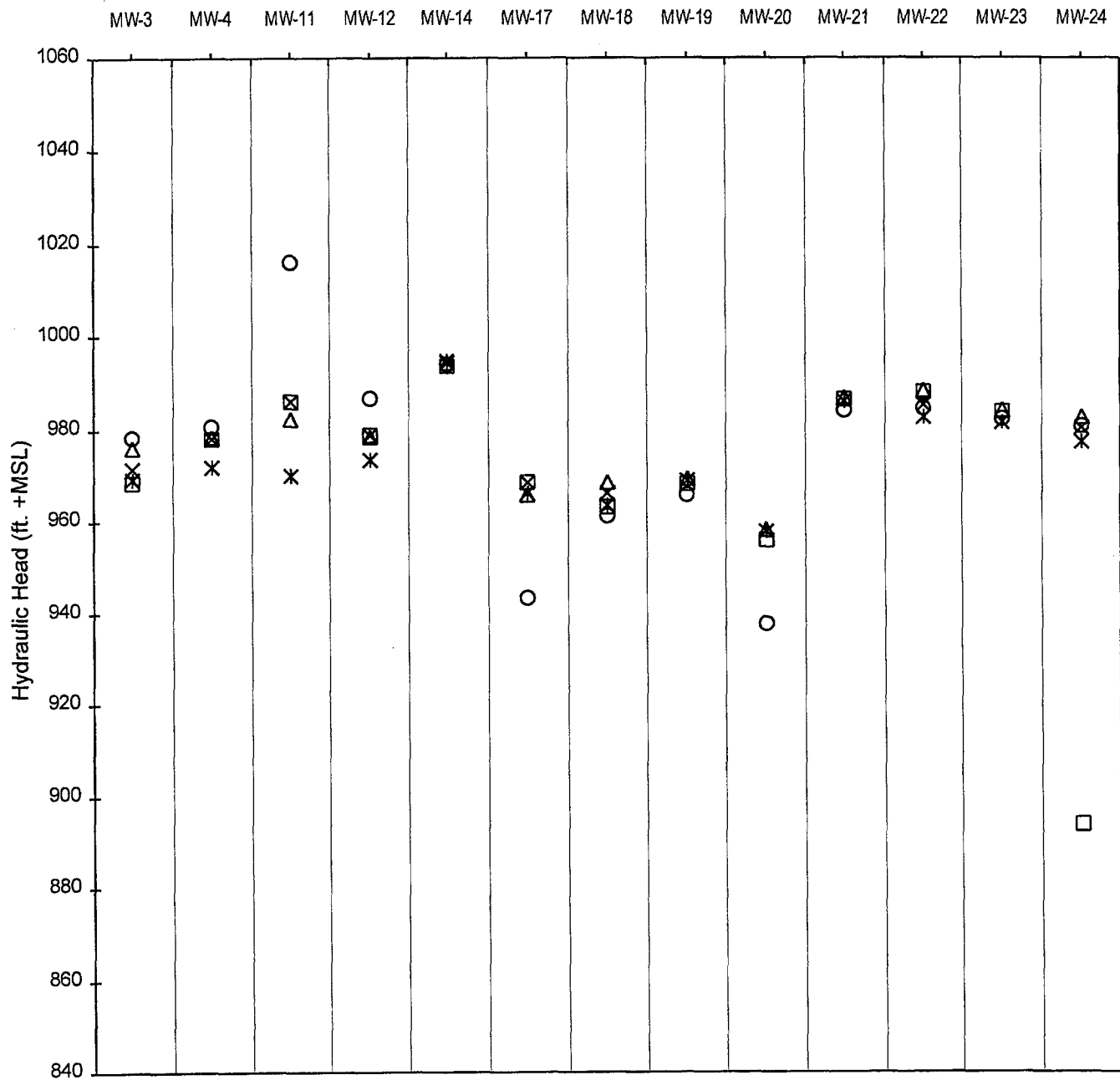
# Monitoring Well



- Screen 1
- Screen 2
- △ Screen 3
- × Screen 4
- \* Screen 5

FIGURE 5-3  
HYDRAULIC HEAD ELEVATIONS  
FROM DEEP (MP) WELLS  
DECEMBER 28-29, 2000  
Jet Propulsion Laboratory  
Pasadena, California  
**SOTA** SOTA Environmental Technology, Inc.

# Monitoring Well



- Screen 1
- Screen 2
- △ Screen 3
- × Screen 4
- \* Screen 5

FIGURE 5-4

HYDRAULIC HEAD ELEVATIONS  
FROM DEEP (MP) WELLS

JANUARY 30-31, 2001

Jet Propulsion Laboratory  
Pasadena, California



SOTA Environmental Technology, Inc.

Contractor: NA

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**Notes:**

Contractor: NA

MW-13-D IS A FIELD DUPLICATE FOR NDMA & 1,4-DIOXANE ONLY. TAKEN AFTER REGULAR SAMPLE (MW-13)

Contractor: NA

98

**Notes:**

Contractor: NA

90

**Notes:**

Contractor: NA

110

| MS | MSD | SAMPLE |
|----|-----|--------|
|----|-----|--------|

**WELL DEVELOPMENT AND SAMPLING LOG**Project Name: JPL PasadenaWell ID: MW-1Project No: 00HW019Equipment: 2" DECONTAMINATED GRUNDFOSSDate: 1/29/01SUBMERSIBLE PUMPPersonnel: PRO/JWTContractor: NA

|                             | Before | Reference Point | After |
|-----------------------------|--------|-----------------|-------|
| Depth to Water (ft.)        | 24.09  | TOC             | 24.11 |
| Depth to Sediment (ft.)     | 120    | TOC             | 120   |
| Thickness of Sediment (ft.) | 0      |                 | 0     |

Depth of Well (ft.)

120

Diameter of Casing (ft.)

.333

Water Column Height (ft.)

95.91Casing Volume (gal.) =  $\pi(\text{Casing Diam. [ft.]}^2/2) \times (\text{Water Column Ht. [ft.]}) \times 7.48 \text{ gal./ft}^3 =$  63Casing Volumes Purged 3.2

Total Volume Purged (gal.)

200

| Time | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (µmhos) | Pump Rate (gpm) | Comments             |
|------|------|-----------------|------------------|----------------------|-----------------|----------------------|
| 1235 |      |                 |                  | .                    | 2               | Pump on @ 301 Hz     |
| 1240 | 7.06 | 9               | 15.9             | .489                 | 2               | CLEAR                |
| 1245 | 6.96 | 1               | 15.5             | .494                 | 2               | CLEAR                |
| 1250 | 6.96 | 195             | 15.5             | .497                 | 2               | CLEAR                |
| 1255 | 6.93 | 10              | 15.8             | .477                 | 2               | CLEAR                |
| 1300 | 7.00 | 9               | 15.8             | .483                 | 2               | CLEAR                |
| 1305 | 6.95 | 10              | 15.4             | .495                 | 2               | CLEAR                |
| 1310 | 6.93 | 10              | 15.5             | .495                 | 2               | CLEAR                |
| 1315 | 6.95 | 3               | 15.2             | .492                 | 2               | CLEAR                |
| 1320 | 6.94 | 1               | 15.4             | .496                 | 2               | CLEAR                |
| 1325 | 6.95 | 10              | 15.2             | .497                 | 2               | CLEAR                |
| 1330 | 6.94 | 11              | 15.2             | .496                 | 2               | CLEAR                |
| 1335 | 6.96 | 10              | 15.3             | .496                 | 2               | CLEAR                |
| 1340 | 6.95 | 0               | 15.1             | .496                 | 2               | CLEAR                |
| 1345 | 6.97 | 0               | 15.3             | .498                 | 2               | CLEAR                |
| 1350 | 7.01 | 1               | 15.2             | .495                 | 2               | CLEAR                |
| 1355 | 6.96 | 0               | 15.4             | .497                 | 2               | CLEAR                |
| 1400 | 6.95 | 1               | 15.5             | .495                 | 2               | CLEAR                |
| 1405 | 6.96 | 1               | 15.5             | .496                 | 2               | CLEAR                |
| 1410 | 6.97 | 2               | 15.3             | .496                 | 2               | CLEAR FLOW           |
| 1415 | 6.96 | 0               | 15.3             | .497                 | 2               | CLEAR - REDUCED TO   |
|      |      |                 |                  |                      |                 | TRICKLE FOR SAMPLING |

Notes:

(102 Hz)

MW-1-D IS A FIELD DUPLICATE. TAKEN AFTER  
REGULAR SAMPLE MW-1.

Contractor: NA

100

**Notes:**

Contractor: NA

90

**Notes:**

Contractor: NA

100

**Notes:**

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/5/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: MES / PJT / JNT

Well ID: MW-21 Depth (ft.): 372  
 Sampling Zone No.: 5  
 Starting Time: 0808 Finishing Time: 1035

Water Pressure Inside MP Casing -

Beginning of Session: 126.24  
 End of Session: 126.29

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 126.24                   | ✓        | 140.96        | ✓          | 140.92        | ✓           | ✓       | 126.24         | 0828                     | 7.08 | 6               | 16.1             | 0.97                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 126.20                   | ✓        | 140.90        | ✓          | 140.89        | ✓           | ✓       | 126.19         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 126.36                   | ✓        | 141.02        | ✓          | 140.96        | ✓           | ✓       | 126.33         |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 126.33                   | ✓        | 140.94        | ✓          | 140.93        | ✓           | ✓       | 126.30         |                          |      |                 |                  |                      |
| 5       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 126.30                   | ✓        | 140.95        | ✓          | 140.89        | ✓           | ✓       | 126.29         |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/5/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: MES (PES) JNT

Well ID: MW-21 Depth (ft.): 310  
 Sampling Zone No.: 4  
 Starting Time: 1047 Finishing Time: 1210

Water Pressure Inside MP Casing -

Beginning of Session: 99.25  
 End of Session: 99.14

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 99.25                    | ✓        | 114.07        | ✓          | 114.01        | ✓           | ✓       | 99.25          | 1110                     | 7.18 | 9               | 19.7             | 0.61                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 99.25                    | ✓        | 114.02        | ✓          | 113.98        | ✓           | ✓       | 99.24          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 99.20                    | ✓        | 114.09        | ✓          | 114.05        | ✓           | ✓       | 99.17          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 99.14                    | ✓        | 114.11        | ✓          | 114.02        | ✓           | ✓       | 99.14          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

Groundwater Sampling  
Field Data Sheet for Multi-Port Well

Date: 1/5/01

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: MES PRJ JNTWell ID: MW-21  
Sampling Zone No.: 3  
Depth (ft.): 240  
Starting Time: 1226  
Finishing Time: 1353

Water Pressure Inside MP Casing -

Beginning of Session: 69.09  
End of Session: 69.51

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 69.09                    | ✓        | 84.13         | ✓          | 84.10         | ✓           | ✓       | 69.09          | 1240                     | 7.07 | 7               | 19.2             | 0.88                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 69.06                    | ✓        | 84.26         | ✓          | 84.13         | ✓           | ✓       | 69.07          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 69.03                    | ✓        | 84.01         | ✓          | 84.01         | ✓           | ✓       | 69.03          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 68.55                    | ✓        | 84.14         | ✓          | 83.88         | ✓           | ✓       | 69.51          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/5/01Project Name: JPL PasadenaWell ID: MW-21Depth (ft.): 161Project No: 00HW019Sampling Zone No.: 2Personnel: MES/PRS/JNDStarting Time: 1403Finishing Time: 1510

Water Pressure Inside MP Casing -

Beginning of Session: 34.62End of Session: 34.56

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 34.62                    | ✓        | 49.86         | ✓          | 49.70         | ✓           | ✓       | 34.60          | 1415                     | 6.95 | 8               | 19.3             | 1.33                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 34.62                    | ✓        | 49.52         | ✓          | 49.41         | ✓           | ✓       | 34.62          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 34.54                    | ✓        | 49.81         | ✓          | 49.76         | ✓           | ✓       | 34.59          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 34.57                    | ✓        | 49.76         | ✓          | 49.70         | ✓           | ✓       | 34.56          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: MBS/PAS/JNT

Well ID: MW-21 Depth (ft.): 90  
 Sampling Zone No.: 1  
 Starting Time: 1521 Finishing Time: 1625

Date: 1/5/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.30  
 End of Session: 14.32

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.30                    | ✓        | 18.50         | ✓          | 18.37         | ✓           | ✓       | 14.32          | 1535                     | 6.76 | 6               | 18.5             | 0.56                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.29                    | ✓        | 18.61         | ✓          | 18.51         | ✓           | ✓       | 14.33          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.30                    | ✓        | 18.56         | ✓          | 18.40         | ✓           | ✓       | 14.34          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.27                    | ✓        | 18.48         | ✓          | 18.36         | ✓           | ✓       | 14.32          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/8/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-17 Depth (ft.): 726  
 Sampling Zone No.: 5  
 Starting Time: 0945 Finishing Time: 1140

Water Pressure Inside MP Casing - Beginning of Session: 171.70  
 End of Session: 171.74

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 171.70                   | ✓        | 215.43        | ✓          | 214.30        | ✓           | ✓       | 171.69         | 1030                     | 7.41 | 5               | 15.8             | .413                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 172.50                   | ✓        | 215.82        | ✓          | 213.35        | ✓           | ✓       | 171.79         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 171.76                   | ✓        | 216.14        | ✓          | 214.26        | ✓           | ✓       | 171.74         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/8/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-17 Depth (ft.): 582  
 Sampling Zone No.: 4  
 Starting Time: 1153 Finishing Time: 1330

Water Pressure Inside MP Casing -

Beginning of Session: 109.17  
 End of Session: 109.11

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 109.17                   | ✓        | 159.93        | ✓          | 159.93        | ✓           | ✓       | 109.16         | 1220                     | 7.41 | 1               | 15.5             | .373                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 109.13                   | ✓        | 160.17        | ✓          | 160.17        | ✓           | ✓       | 109.13         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 109.11                   | ✓        | 160.36        | ✓          | 160.33        | ✓           | ✓       | 109.11         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/8/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PLS JNT

Well ID: MW-17 Depth (ft.): 468  
 Sampling Zone No.: 3  
 Starting Time: 1337 Finishing Time: 1530

Water Pressure Inside MP Casing -  
 Beginning of Session: 59.52  
 End of Session: 59.48

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 59.52                    | ✓        | 115.80        | ✓          | 115.76        | ✓           | ✓       | 59.51          | 1400                     | 7.38 | -10             | 14.6             | .361                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 59.45                    | ✓        | 115.81        | ✓          | 115.79        | ✓           | ✓       | 59.43          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 59.49                    | ✓        | 115.86        | ✓          | 115.85        | ✓           | ✓       | 59.51          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 59.47                    | ✓        | 115.92        | ✓          | 115.85        | ✓           | ✓       | 59.48          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS / JNT

Well ID: MW-17 Depth (ft.): 370  
 Sampling Zone No.: 2  
 Starting Time: 1540 Finishing Time: 1735

Date: 1/8/01

Water Pressure Inside MP Casing -

Beginning of Session: 17.67  
 End of Session: 17.23

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks  |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|---------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP PS         | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | <del>17.67</del><br>16.79 | ✓        | 74.82         | ✓          | 74.81         | ✓           | ✓       | 16.82          | 1610                     | 7.46 | -2              | 13.7             | .282                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 16.77                     | ✓        | 74.84         | ✓          | 74.84         | ✓           | ✓       | 16.79          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 16.75                     | ✓        | 74.85         | ✓          | 74.84         | ✓           | ✓       | 16.77          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 17.25                     | ✓        | 74.88         | ✓          | 74.86         | ✓           | ✓       | 17.23          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MW-17-2D IS A FIELD DUPLICATE - TAKEN AFTER  
 (RUN # 3, 4, 5) REGULAR SAMPLE (MW-17-2)  
 PS

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS JNT

Well ID: MW-17 Depth (ft.): 250  
 Sampling Zone No.: 1  
 Starting Time: 1745 Finishing Time: 1845

Date: 1/8/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.15  
 End of Session: 14.20

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.15                    | ✓        | 21.22         | ✓          | 21.21         | ✓           | ✓       | 14.23          | 1815                     | 7.00 | 4               | 14.3             | .334                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.17                    | ✓        | 21.20         | ✓          | 21.18         | ✓           | ✓       | 14.20          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS/MSD Sample

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-3 Depth (ft.): 653  
 Sampling Zone No.: 5  
 Starting Time: 0845

Finishing Time: 1020  
0945 PS

Date: 1/9/01

Water Pressure Inside MP Casing -

Beginning of Session: 174.71  
 End of Session: 175.32

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 174.71                   | ✓        | 229.98        | ✓          | 227.16        | ✓           | ✓       | 175.29         | 0945                     | 7.66 | -10             | 11.9             | .296                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 175.26                   | ✓        | 230.09        | ✓          | 230.07        | ✓           | ✓       | 175.32         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: Run # 1 was with Probe # 2502, had probe problems,  
switched to new probe in middle of Run #1.  
(1st inside MP pressure reading with probe # 2502)

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-3 Depth (ft.): 558  
 Sampling Zone No.: 4  
 Starting Time: 1035 Finishing Time: 1140

Date: 1/8/01

Water Pressure Inside MP Casing -  
 Beginning of Session: 133.97  
 End of Session: 134.08

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 133.97                   | ✓        | 194.08        | ✓          | 194.08        | ✓           | ✓       | 134.10         | 1055                     | 7.68 | 10              | 15.9             | .318                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 134.07                   | ✓        | 194.25        | ✓          | 194.25        | ✓           | ✓       | 134.08         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/9/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS / JNT

Well ID: MW-3 Depth (ft.): 346  
 Sampling Zone No.: 3  
 Starting Time: 1145 Finishing Time: 1230

Water Pressure Inside MP Casing -

Beginning of Session: 42.04  
 End of Session: 41.98

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 42.04                    | ✓        | 106.91        | ✓          | 106.91        | ✓           | ✓       | 42.01          | 1200                     | 7.59 | 12              | 18.5             | .390                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 42.02                    | ✓        | 106.94        | ✓          | 106.94        | ✓           | ✓       | 41.98          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-3 Depth (ft.): 252  
 Sampling Zone No.: 2  
 Starting Time: 1233 Finishing Time: 1320

Date: 1/9/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.32  
 End of Session: 14.34

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.32                    | ✓        | 65.94         | ✓          | 65.94         | ✓           | ✓       | 14.31          | 1250                     | 7.42 | 11              | 18.6             | .363                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.32                    | ✓        | 65.97         | ✓          | 65.96         | ✓           | ✓       | 14.34          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS / JNT

Well ID: MW-3 Depth (ft.): 172  
 Sampling Zone No.: 1  
 Starting Time: 1320 Finishing Time: 1400

Date: 1/9/01

Water Pressure Inside MP Casing - Beginning of Session: 14.29  
 End of Session: 14.35

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.29                    | ✓        | 31.89         | ✓          | 31.89         | ✓           | ✓       | 14.34          | 1335                     | 7.28 | 11              | 19.8             | .347                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.28                    | ✓        | 31.90         | ✓          | 31.86         | ✓           | ✓       | 14.35          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/10/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ JNT

Well ID: MW-18 Depth (ft.): 684  
 Sampling Zone No.: 5  
 Starting Time: 1115 Finishing Time: 1220

Water Pressure Inside MP Casing -

Beginning of Session: 149.89  
 End of Session: 149.89

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 149.89                   | ✓        | 189.80        | ✓          | 189.68        | ✓           | ✓       | 149.90         | 1140                     | 8.16 | 11              | 16.8             | .281                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 149.89                   | ✓        | 189.85        | ✓          | 189.82        | ✓           | ✓       | 149.89         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/10/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-18 Depth (ft.): 564  
 Sampling Zone No.: 4  
 Starting Time: 1230 Finishing Time: 1445

Water Pressure Inside MP Casing -

Beginning of Session: 97.74  
 End of Session: 97.60

| Run No. | Surface Function Checks |                           |            |                    |              |                                | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              |                  | 97.74                    | ✓        | 142.91        | ✓          | 942.81        | ✓           | ✓       | 97.70          | 1340                     | 7.58 | 2               | 16.3             | .337                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              |                  | 97.66                    | ✓        | 143.04        | ✓          | 143.02        | ✓           | ✓       | 97.60          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/10/01

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: PRS JNT

Well ID: MW-18

Sampling Zone No.: 3

Starting Time: 1445

Depth (ft.): 424

Finishing Time: 1545

Water Pressure Inside MP Casing -

Beginning of Session: 36.30

End of Session: 36.30

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 36.30                    | ✓        | 83.99         | ✓          | 83.96         | ✓           | ✓       | 36.30          | 1520                     | 7.26 | 27              | 13.3             | .402                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 36.30                    | ✓        | 84.02         | ✓          | 84.00         | ✓           | ✓       | 36.30          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/10/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-18  
 Sampling Zone No.: 2  
 Starting Time: 1550  
 Depth (ft.): 330  
 Finishing Time: 1635

Water Pressure Inside MP Casing -

Beginning of Session: 14.40  
 End of Session: 14.41

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.40                    | ✓        | 41.39         | ✓          | 41.39         | ✓           | ✓       | 14.42          | 1610                     | 7.01 | -10             | 14.4             | .377                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.39                    | ✓        | 41.40         | ✓          | 41.38         | ✓           | ✓       | 14.41          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/10/01Project Name: JPL PasadenaWell ID: MW-18Depth (ft.): 270Project No: 00HW019Sampling Zone No.: 1Personnel: PRJ JNTStarting Time: 1640Finishing Time: 1653

Water Pressure Inside MP Casing -

Beginning of Session: 14.33

End of Session: \_\_\_\_\_

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |    |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|----|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.33                    | ✓        | 14.67         |            |               |             |         |                |                          |    |                 |                  |                      |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |

Notes:

NO WATER AVAILABLE TO SAMPLE - FORMATION DRY (14.67 psia)  
AMBIENT →

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL PasadenaWell ID: MW-20Depth (ft.): 900Project No: 00HW019Sampling Zone No.: 5Date: 11/11/01Personnel: PRS/JNTStarting Time: 1015Finishing Time: 1435

Water Pressure Inside MP Casing -

Beginning of Session: 264.14End of Session: 264.79

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 264.14                   | ✓        | 312.22        | ✓          | 312.24        | ✓           | ✓       | 263.04         | 1345                     | 8.37 | 7               | 15.7             | .364                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 264.84                   | ✓        | 312.27        | ✓          | 312.25        | ✓           | ✓       | 264.79         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: PROBLEMS WITH PROBE ON RUN #1, VALVE WAS MALFUNCTIONING.  
DAVE MERCER FROM WESTBAY CAME AND FIXED VALVE MALFUNCTION.

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PJS JNT

Well ID: MW-20 Depth (ft.): 700  
 Sampling Zone No.: 4  
 Starting Time: 1440 Finishing Time: 1615

Date: 1/11/01

Water Pressure Inside MP Casing -

Beginning of Session: 177.07  
 End of Session: 176.96

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 177.07                   | ✓        | 219.68        | ✓          | 219.68        | ✓           | ✓       | 177.01         | 1500                     | 7.88 | 0               | 13.4             | 198                  |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 177.02                   | ✓        | 219.68        | ✓          | 218.91        | ✓           | ✓       | 176.98         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 177.01                   | ✓        | 219.71        | ✓          | 219.65        | ✓           | ✓       | 176.96         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: MW-20-4D IS A FIELD DUPLICATE - TAKEN AFTER REGULAR  
SAMPLE (MW-20-4), FIELD DUPLICATE TAKEN FROM RUN # 2 & 3.

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-20 Depth (ft.): 562  
 Sampling Zone No.: 3  
 Starting Time: 0850

Finishing Time: 0950Date: 1/12/01

Water Pressure Inside MP Casing -

Beginning of Session: 116.88End of Session: 116.89

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 116.88                   | ✓        | 116.53        | ✓          | 116.50        | ✓           | ✓       | 116.92         | 0920                     | 7.47 | 8               | 14.4             | .486                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 116.88                   | ✓        | 116.61        | ✓          | 116.60        | ✓           | ✓       | 116.89         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-20 Depth (ft.): 392  
 Sampling Zone No.: 2  
 Starting Time: 1000 Finishing Time: 1123

Date: 1/12/01

Water Pressure Inside MP Casing -

Beginning of Session: 43.05  
 End of Session: 43.00

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks       |                |          |               |            |               |             |         | Water Quality Parameters |      |     |                 |                  |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------------|----------------|----------|---------------|------------|---------------|-------------|---------|--------------------------|------|-----|-----------------|------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Deactivate Set Arm Locate Port | Pressure in MP | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP           | Time | pH  | Turbidity (NTU) | Temperature (°C) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 43.05                          | ✓              | 92.26    | ✓             | 92.23      | ✓             | ✓           | 43.01   | 1025                     | 7.41 | -10 | 14.8            | .350             |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 43.05                          | ✓              | 92.32    | ✓             | 92.30      | ✓             | ✓           | 43.02   |                          |      |     |                 |                  |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 43.02                          | ✓              | 92.22    | ✓             | 92.22      | ✓             | ✓           | 43.00   |                          |      |     |                 |                  |
| 4       |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 5       |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 6       |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 7       |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 8       |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 9       |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 10      |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 11      |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |
| 12      |                         |                           |            |                    |              |                  |                                |                |          |               |            |               |             |         |                          |      |     |                 |                  |

Notes:

MS/MSD Sample

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-20 Depth (ft.): 230  
 Sampling Zone No.: 1  
 Starting Time: 1132 Finishing Time: 1232

Date: 1/12/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.25  
 End of Session: 14.26

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.25                    | ✓        | 21.49         | ✓          | 21.36         | ✓           | ✓       | 14.28          | 1155                     | 7.18 | 0               | 15.3             | .663                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.26                    | ✓        | 21.45         | ✓          | 21.41         | ✓           | ✓       | 14.28          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.24                    | ✓        | 21.43         | ✓          | 21.40         | ✓           | ✓       | 14.26          |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JWT

Well ID: MW-19 Depth (ft.): 498  
 Sampling Zone No.: 5  
 Starting Time: 0920 Finishing Time: 1105

Date: 1/15/01

Water Pressure Inside MP Casing -

Beginning of Session: 78.99  
 End of Session: 78.90

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks  |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|---------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP            | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | <del>78.99</del><br>82.83 | ✓        | 152.38        | ✓          | 152.36        | ✓           | ✓       | 78.97          | 1038                     | 6.67 | -10             | 15.1             | .665                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 78.96                     | ✓        | 152.53        | ✓          | 152.50        | ✓           | ✓       | 78.90          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                           |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PES JNT

Well ID: MW-19 Depth (ft.): 444  
 Sampling Zone No.: 4  
 Starting Time: 1114 Finishing Time: 1225

Date: 1/15/01

Water Pressure Inside MP Casing -

Beginning of Session: 55.43  
 End of Session: 55.40

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 55.43                    | ✓        | 129.02        | ✓          | 128.96        | ✓           | ✓       | 55.42          | 1133                     | 7.72 | -8              | 16.2             | .355                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 55.38                    | ✓        | 129.06        | ✓          | 128.99        | ✓           | ✓       | 55.40          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-19 Depth (ft.): 392  
 Sampling Zone No.: 3  
 Starting Time: 1229 Finishing Time: 1350

Date: 1/15/01

Water Pressure Inside MP Casing -

Beginning of Session: 33.63  
 End of Session: 32.71

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 33.63                    | ✓        | 107.22        | ✓          | 107.18        | ✓           | ✓       | 33.64          | 1251                     | 6.81 | 1               | 17.0             | 1.08                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 32.75                    | ✓        | 107.21        | ✓          | 107.24        | ✓           | ✓       | 32.81          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 32.69                    | ✓        | 107.38        | ✓          | 107.37        | ✓           | ✓       | 32.71          |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS MSD Sample

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PBS/JNT

Well ID: MW-19 Depth (ft.): 314  
 Sampling Zone No.: 2  
 Starting Time: 1352 Finishing Time: 1405

Date: 1/15/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.32  
 End of Session: 14.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.32                    | ✓        | 72.93         | ✓          | 72.93         | ✓           | ✓       | 14.41          | 1410                     | 7.30 | 21              | 14.3             | .457                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.39                    | ✓        | 72.96         | ✓          | 72.95         | ✓           | ✓       | 14.40          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.35                    | ✓        | 72.97         | ✓          | 72.94         | ✓           | ✓       | 14.36          |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: MW-19-2D IS A FIELD DUPLICATE - TAKEN AFTER REGULAR  
SAMPLE (MW-19-2), FIELD DUPLICATE TAKEN FROM RUN # 2 & 3.

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/15/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-19 Depth (ft.): 242  
 Sampling Zone No.: 1  
 Starting Time: 1510 Finishing Time: 1603

Water Pressure Inside MP Casing -

Beginning of Session: 14.29  
 End of Session: 14.32

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.29                    | ✓        | 40.84         | ✓          | 40.82         | ✓           | ✓       | 14.31          | 1535                     | 7.11 | 10              | 18.4             | .362                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.27                    | ✓        | 40.87         | ✓          | 40.81         | ✓           | ✓       | 14.32          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRO/JNT

Well ID: MW-14 Depth (ft.): 540  
 Sampling Zone No.: 5  
 Starting Time: 0900 Finishing Time: 0955

Date: 1/16/01

Water Pressure Inside MP Casing -

Beginning of Session: 135.56  
 End of Session: 135.50

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 135.56                   | ✓        | 169.72        | ✓          | 169.72        | ✓           | ✓       | 135.47         | 0926                     | 7.68 | 6               | 16.2             | 288                  |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 135.56                   | ✓        | 169.68        | ✓          | 169.67        | ✓           | ✓       | 135.50         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JWT

Well ID: MW-14 Depth (ft.): 456  
 Sampling Zone No.: 4  
 Starting Time: 1002 Finishing Time: 1057

Date: 1/16/01

Water Pressure Inside MP Casing -

Beginning of Session: 98.97  
 End of Session: 98.90

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 98.97                    | ✓        | 133.00        | ✓          | 132.97        | ✓           | ✓       | 98.98          | 1025                     | 7.30 | -10             | 18.2             | .518                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 98.87                    | ✓        | 133.07        | ✓          | 133.04        | ✓           | ✓       | 98.90          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-14 Depth (ft.): 382  
 Sampling Zone No.: 3  
 Starting Time: 1100 Finishing Time: 1148

Date: 1/16/01

Water Pressure Inside MP Casing -

Beginning of Session: 66.80  
 End of Session: 66.76

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 66.80                    | ✓        | 100.09        | ✓          | 100.01        | ✓           | ✓       | 66.82          | 1125                     | 7.32 | -10             | 17.2             | 1.07                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 66.69                    | ✓        | 100.01        | ✓          | 99.98         | ✓           | ✓       | 66.76          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS JST

Well ID: MW-14 Depth (ft.): 277  
 Sampling Zone No.: 2  
 Starting Time: 1150 Finishing Time: 1240

Date: 1/16/01

Water Pressure Inside MP Casing -

Beginning of Session: 21.16  
 End of Session: 21.15

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 21.16                    | ✓        | 55.08         | ✓          | 55.09         | ✓           | ✓       | 21.16          | 1215                     | 7.11 | ~10             | 18.0             | 1.20                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 21.14                    | ✓        | 55.10         | ✓          | 55.11         | ✓           | ✓       | 21.15          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRS JMT

Well ID: MW-14 Depth (ft.): 207  
Sampling Zone No.: 1  
Starting Time: 1242 Finishing Time: 1330

Date: 1/16/01

Water Pressure Inside MP Casing - Beginning of Session: 14.34  
End of Session: 14.31

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.34                    | ✓        | 24.84         | ✓          | 24.84         | ✓           | ✓       | 14.36          | 1255                     | 6.83 | -10             | 18.7             | 1.33                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.32                    | ✓        | 24.76         | ✓          | 24.74         | ✓           | ✓       | 14.31          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS JNT

Well ID: MW-11 Depth (ft.): 639  
 Sampling Zone No.: 5  
 Starting Time: 0910 Finishing Time: 1045

Date: 1/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 171.59  
 End of Session: 171.56

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 171.59                   | ✓        | 215.87        | ✓          | 215.67        | ✓           | ✓       | 171.59         | 0943                     | 7.66 | 3               | 17.8             | .310                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 171.58                   | ✓        | 215.89        | ✓          | 215.86        | ✓           | ✓       | 171.58         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 171.61                   | ✓        | 215.87        | ✓          | 215.88        | ✓           | ✓       | 171.56         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: MW-11-5D IS A FIELD DUPLICATE - TAKEN AFTER REGULAR SAMPLE (MW-11-5). FIELD DUPLICATE IS FROM RUN #2 & 3.

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/17/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-11 Depth (ft.): 524  
 Sampling Zone No.: 4  
 Starting Time: 1050 Finishing Time: 1202

Water Pressure Inside MP Casing - Beginning of Session: 121.96  
 End of Session: 121.93

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 121.96                   | ✓        | 172.31        | ✓          | 172.29        | ✓           | ✓       | 121.96         | 1115                     | 7.57 | -10             | 17.4             | .251                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 122.00                   | ✓        | 172.31        | ✓          | 172.14        | ✓           | ✓       | 121.94         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 121.95                   | ✓        | 172.29        | ✓          | 172.25        | ✓           | ✓       | 121.93         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS/MSD SAMPLE

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PKS JNS

Well ID: MW-11 Depth (ft.): 429  
 Sampling Zone No.: 3  
 Starting Time: 1302 Finishing Time: 1355

Date: 1/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 80.95  
 End of Session: 80.92

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 80.95                    | ✓        | 130.18        | ✓          | 130.15        | ✓           | ✓       | 80.95          | 1323                     | 7.78 | 9               | 17.0             | 352                  |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 80.94                    | ✓        | 130.18        | ✓          | 130.14        | ✓           | ✓       | 80.92          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PREJNT

Well ID: MW-11  
 Sampling Zone No.: 2  
 Starting Time: 1400

Depth (ft.): 259Finishing Time: 1410 1446Date: 11/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.36  
 End of Session: 14.38

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.36                    | ✓        | 58.22         | ✓          | 58.22         | ✓           | ✓       | 14.50          | 1417                     | 7.47 | -10             | 17.0             | ,381                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.38                    | ✓        | 58.20         | ✓          | 58.20         | ✓           | ✓       | 14.38          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-11 Depth (ft.): 149  
 Sampling Zone No.: 1  
 Starting Time: 1447 Finishing Time: 1458

Date: 1/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.40  
 End of Session: 14.37

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.40                    | ✓        | 24.70         | ✓          | 24.66         | ✓           | ✓       | 14.36          | 1458                     | 7.23 | 2               | 14.5             | .432                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.37                    | ✓        | 24.65         | ✓          | 24.65         | ✓           | ✓       | 14.37          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/18/01

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: PIZ/SNT

Well ID: MW-22

Depth (ft.): 588

Sampling Zone No.: 5

Starting Time: 0920

Finishing Time: 1050

Water Pressure Inside MP Casing -

Beginning of Session: 136.03

End of Session: 136.01

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 136.03                   | ✓        | 183.36        | ✓          | 183.30        | ✓           | ✓       | 136.03         | 0948                     | 8.11 | 8               | 17.3             | .332                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 136.09                   | ✓        | 183.37        | ✓          | 183.35        | ✓           | ✓       | 136.08         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 136.05                   | ✓        | 183.35        | ✓          | 183.30        | ✓           | ✓       | 136.01         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS/MSD SAMPLE

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-22 Depth (ft.): 467  
 Sampling Zone No.: 4  
 Starting Time: 1055 Finishing Time: 1207

Date: 1/18/01

Water Pressure Inside MP Casing -

Beginning of Session: 83.54  
 End of Session: 83.49

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 83.54                    | ✓        | 132.34        | ✓          | 132.34        | ✓           | ✓       | 83.49          | 1115                     | 7.59 | 2               | 16.1             | .319                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 83.55                    | ✓        | 132.30        | ✓          | 132.25        | ✓           | ✓       | 83.49          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 83.57                    | ✓        | 132.32        | ✓          | 132.28        | ✓           | ✓       | 83.49          |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: MW-22-4D IS A FIELD DUPLICATE TAKEN AFTER REGULAR  
SAMPLE (MW-22-4), FIELD DUPLICATE IS FROM RUNS # 2 & 3.

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/18/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRO/JNT

Well ID: MW-22 Depth (ft.): 389

Sampling Zone No.: 3

Starting Time: 1252

Finishing Time: 1350

Water Pressure Inside MP Casing -

Beginning of Session: 49.54

End of Session: 49.59

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 49.54                    | ✓        | 99.86         | ✓          | 99.86         | ✓           | ✓       | 49.57          | 1315                     | 7.49 | 7               | 15.9             | .444                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 49.58                    | ✓        | 99.81         | ✓          | 99.76         | ✓           | ✓       | 49.59          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PJT/JNT

Well ID: MW-22 Depth (ft.): 329  
 Sampling Zone No.: 2  
 Starting Time: 1350 Finishing Time: 1441

Date: 1/18/01

Water Pressure Inside MP Casing -

Beginning of Session: 23.41  
 End of Session: 23.37

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 23.41                    | ✓        | 73.64         | ✓          | 73.64         | ✓           | ✓       | 23.45          | 1410                     | 7.41 | 917             | 17.5             | .512                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 23.39                    | ✓        | 73.61         | ✓          | 73.58         | ✓           | ✓       | 23.37          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS / JNT

Well ID: MW-22 Depth (ft.): 245  
 Sampling Zone No.: 1  
 Starting Time: 1446 Finishing Time: 1535

Date: 1/18/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.36  
 End of Session: 14.42

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.36                    | ✓        | 35.43         | ✓          | 35.43         | ✓           | ✓       | 14.41          | 1506                     | 7.08 | 9               | 17.0             | 1.26                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.35                    | ✓        | 35.40         | ✓          | 35.36         | ✓           | ✓       | 14.42          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-23 Depth (ft.): 542  
 Sampling Zone No.: 5  
 Starting Time: 0745 Finishing Time: 0840

Date: 1/19/01

Water Pressure Inside MP Casing -

Beginning of Session: 161.50  
 End of Session: 161.47

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 161.50                   | ✓        | 192.54        | ✓          | 192.71        | ✓           | ✓       | 161.44         | 0808                     | 8.67 | -10             | 17.5             | .464                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 161.51                   | ✓        | 192.47        | ✓          | 191.98        | ✓           | ✓       | 161.47         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/19/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS / JNT

Well ID: MW-23 Depth (ft.): 445  
 Sampling Zone No.: 4  
 Starting Time: 0845 Finishing Time: 0928

Water Pressure Inside MP Casing -

Beginning of Session: 119.35  
 End of Session: 119.28

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 119.35                   | ✓        | 150.73        | ✓          | 150.70        | ✓           | ✓       | 119.35         | 0901                     | 7.90 | -2              | 14.4             | .327                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 119.28                   | ✓        | 150.74        | ✓          | 150.72        | ✓           | ✓       | 119.28         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PKS JNT

Well ID: MW-23 Depth (ft.): 319  
 Sampling Zone No.: 3  
 Starting Time: 0930 Finishing Time: 1013

Date: 1/19/01

Water Pressure Inside MP Casing -  
 Beginning of Session: 65.47  
 End of Session: 65.41

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 65.47                    | ✓        | 97.25         | ✓          | 97.22         | ✓           | ✓       | 65.46          | 0848                     | 7.35 | 0               | 12.4             | 321                  |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 65.45                    | ✓        | 97.21         | ✓          | 97.18         | ✓           | ✓       | 65.41          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Total Volume: \_\_\_\_\_

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL PasadenaProject No: 00HW019Personnel: PRS JNTWell ID: MW-23 Depth (ft.): 254Sampling Zone No.: 2Starting Time: 1018Finishing Time: 1058Date: 1/19/01

Water Pressure Inside MP Casing -

Beginning of Session: 36.37End of Session: 36.28

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 36.37                    | ✓        | 68.81         | ✓          | 68.67         | ✓           | ✓       | 36.36          | 1037                     | 7.22 | 8               | 17.1             | 1.09                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 36.36                    | ✓        | 68.78         | ✓          | 68.74         | ✓           | ✓       | 36.28          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: \_\_\_\_\_

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JNT

Well ID: MW-23 Depth (ft.): 174  
Sampling Zone No.: 1  
Starting Time: 1102 Finishing Time: 1140

Date: 1/19/01

Water Pressure Inside MP Casing -  
Beginning of Session: 14.40  
End of Session: 14.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.40                    | ✓        | 33.26         | ✓          | 33.20         | ✓           | ✓       | 14.37          | 1119                     | 7.04 | -1              | 17.1             | 1.31                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.36                    | ✓        | 33.21         | ✓          | 33.18         | ✓           | ✓       | 14.36          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: \_\_\_\_\_

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No.: 00HW019  
 Personnel: PRE/JUT

Well ID: MW-12 Depth (ft.): 548  
 Sampling Zone No.: 5  
 Starting Time: 0945 Finishing Time: 1120

Date: 1/22/01

Water Pressure Inside MP Casing -

Beginning of Session: 136.90  
 End of Session: 136.81

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 136.90                   | ✓        | 194.87        | ✓          | 194.87        | ✓           | ✓       | 136.93         | 1021                     | 7.66 | -10             | 17.4             | .368                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 136.92                   | ✓        | 194.81        | ✓          | 194.76        | ✓           | ✓       | 136.90         |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 136.91                   | ✓        | 194.79        | ✓          | 194.78        | ✓           | ✓       | 136.81         |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: MW-12-5D IS A FIELD DUPLICATE TAKEN AFTER REGULAR SAMPLE (MW-12-5). FIELD DUPLICATE IS FROM RUN # 2 & 3.

Total Volume: 4 LITERS

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: YW-12 Depth (ft.): 436  
 Sampling Zone No.: 4  
 Starting Time: 1125 Finishing Time: 1242

Date: 1/22/01

Water Pressure Inside MP Casing -

Beginning of Session: 88.11  
 End of Session: 88.08

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 88.11                    | ✓        | 148.77        | ✓          | 148.74        | ✓           | ✓       | 88.10          | 1150                     | 7.30 | -5              | 17.9             | .419                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 88.15                    | ✓        | 148.80        | ✓          | 148.74        | ✓           | ✓       | 88.13          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 88.14                    | ✓        | 148.76        | ✓          | 148.70        | ✓           | ✓       | 88.08          |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS/MSD Sample

Total Volume: 4 LITERS

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JWT

Well ID: MW-12 Depth (ft.): 323  
 Sampling Zone No.: 3  
 Starting Time: 1245 Finishing Time: 1330

Date: 1/22/01

Water Pressure Inside MP Casing - Beginning of Session: 38.88  
 End of Session: 38.82

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 38.88                    | ✓        | 99.60         | ✓          | 99.54         | ✓           | ✓       | 38.89          | 1313                     | 7.42 | 9               | 17.1             | .428                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 38.81                    | ✓        | 99.62         | ✓          | 99.58         | ✓           | ✓       | 38.82          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 LITERS

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS / JNT

Well ID: MW-12 Depth (ft.): 243  
 Sampling Zone No.: 2  
 Starting Time: 1335 Finishing Time: 1407

Date: 1/22/01

Water Pressure Inside MP Casing - Beginning of Session: 14.40  
 End of Session: 14.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.40                    | ✓        | 64.98         | ✓          | 64.97         | ✓           | ✓       | 14.37          | 1352                     | 7.52 | 9               | 18.4             | .413                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.36                    | ✓        | 64.90         | ✓          | 64.87         | ✓           | ✓       | 14.36          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 LITERS

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: YMW-12 Depth (ft.): 140  
 Sampling Zone No.: 1  
 Starting Time: 1411 Finishing Time: 1500

Date: 1/22/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.40  
 End of Session: 14.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.40                    | ✓        | 23.22         | ✓          | 23.20         | ✓           | ✓       | 14.40          | 1437                     | 7.30 | 10              | 18.0             | .361                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.38                    | ✓        | 23.25         | ✓          | 23.23         | ✓           | ✓       | 14.36          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRG JNT

Well ID: MW-24 Depth (ft.): 678Sampling Zone No.: 5Starting Time: 1000Finishing Time: 1050Date: 1/23/01

Water Pressure Inside MP Casing -

Beginning of Session: 170.39End of Session: 170.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 170.39                   | ✓        | 210.15        | ✓          | 210.15        | ✓           | ✓       | 170.37         | 1032                     | 7.57 | 9               | 18.0             | <del>34.346</del>    |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 170.39                   | ✓        | 210.14        | ✓          | 210.10        | ✓           | ✓       | 170.36         |                          |      |                 |                  | PS                   |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 Liters

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/23/01

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: PRJ/JNT

Well ID: MW-24

Sampling Zone No.: 4

Starting Time: 1055

Depth (ft.): 554

Finishing Time: 1155

Water Pressure Inside MP Casing -

Beginning of Session: 116.51

End of Session: 116.48

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 116.51                   | ✓        | 157.80        | ✓          | 157.80        | ✓           | ✓       | 116.53         | 1125                     | 8.20 | 10              | 18.0             | .270                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 116.49                   | ✓        | 157.82        | ✓          | 157.78        | ✓           | ✓       | 116.48         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 Liters

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL PasadenaWell ID: YW-24Depth (ft.): 435Project No: 00HW019Sampling Zone No.: 3Date: 1/23/01Personnel: PRJ/JNTStarting Time: 1240Finishing Time: 1332

Water Pressure Inside MP Casing -

Beginning of Session: 64.80End of Session: 64.78

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 64.80                    | ✓        | 107.01        | ✓          | 107.01        | ✓           | ✓       | 64.83          | 1305                     | 7.89 | 10              | 19.7             | .312                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 64.82                    | ✓        | 107.10        | ✓          | 107.05        | ✓           | ✓       | 64.78          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 Liters

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/23/01Project Name: JPL PasadenaWell ID: MW-24Depth (ft.): 373Project No: 00HW019Sampling Zone No.: 2Personnel: AA PRS JNTStarting Time: 1337Finishing Time: 1417

Water Pressure Inside MP Casing -

Beginning of Session: 37.84End of Session: 37.86

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 37.84                    | ✓        | 79.85         | ✓          | 79.83         | ✓           | ✓       | 37.84          | 1357                     | 7.68 | 10              | 19.6             | .406                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 37.85                    | ✓        | 79.80         | ✓          | 79.78         | ✓           | ✓       | 37.86          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_Total Volume: 2 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-24 Depth (ft.): 279  
 Sampling Zone No.: 1  
 Starting Time: 1421 Finishing Time: 1610

Date: 1/23/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.40  
 End of Session: 14.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.40                    | ✓        | 38.49         | ✓          | 38.51         | ✓           | ✓       | 14.38          | 1421                     | 7.47 | 10              | 20.0             | .431                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.37                    | ✓        | 38.46         | ✓          | 38.46         | ✓           | ✓       | 14.36          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.41                    | ✓        | 38.50         | ✓          | 38.51         | ✓           | ✓       | 14.34          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.40                    | ✓        | 38.47         | ✓          | 38.45         | ✓           | ✓       | 14.41          |                          |      |                 |                  |                      |
| 5       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.42                    | ✓        | 38.49         | ✓          | 38.50         | ✓           | ✓       | 14.36          |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 6 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/24/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-4

Depth (ft.): 513

Sampling Zone No.: 5

Starting Time: 0900

Finishing Time: 1005

Water Pressure Inside MP Casing -

Beginning of Session: 134.96

End of Session: 134.90

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 134.96                   | ✓        | 187.51        | ✓          | 187.51        | ✓           | ✓       | 134.98         | 0947                     | 7.67 | 5               | 16.6             | .311                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 134.97                   | ✓        | 187.49        | ✓          | 187.45        | ✓           | ✓       | 134.90         |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_

Total Volume: 2 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/24/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-4

Depth (ft.): 392

Sampling Zone No.: 4

Starting Time: 1010

Finishing Time: 1053

Water Pressure Inside MP Casing -

Beginning of Session: 82.44

End of Session: 82.41

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 82.44                    | ✓        | 137.91        | ✓          | 137.88        | ✓           | ✓       | 82.44          | 1034                     | 7.25 | 794             | 14.5             | .391                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 82.42                    | ✓        | 137.87        | ✓          | 137.85        | ✓           | ✓       | 82.41          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

WATER HAS A YELLOWISH COLOR TO IT.

Total Volume: 2 LITERS

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## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/24/01

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JNT

Well ID: MW-4 Depth (ft.): 322  
Sampling Zone No.: 3  
Starting Time: 1106 Finishing Time: 1145

Water Pressure Inside MP Casing -  
Beginning of Session: 52.01  
End of Session: 51.96

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 52.01                    | ✓        | 107.75        | ✓          | 107.75        | ✓           | ✓       | 52.03          | 1125                     | 6.92 | -7              | 15.4             | .428                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 51.96                    | ✓        | 107.70        | ✓          | 107.71        | ✓           | ✓       | 51.96          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: WATER HAD AN ORANGISH COLOR TO IT

Total Volume: 2 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: RLS JNT

Well ID: MW-4 Depth (ft.): 240  
 Sampling Zone No.: 2  
 Starting Time: 1230 Finishing Time: 1353

Date: 1/24/01

Water Pressure Inside MP Casing -

Beginning of Session: 16.34  
 End of Session: 16.34

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 16.34                    | ✓        | 71.97         | ✓          | 71.95         | ✓           | ✓       | 16.36          | 1247                     | 7.16 | 7               | 17.0             | .731                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 16.31                    | ✓        | 71.94         | ✓          | 71.94         | ✓           | ✓       | 16.35          |                          |      |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 16.36                    | ✓        | 71.98         | ✓          | 71.98         | ✓           | ✓       | 16.35          |                          |      |                 |                  |                      |
| 4       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 16.31                    | ✓        | 71.96         |            | 71.91         | ✓           | ✓       | 16.34          |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 6 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-4 Depth (ft.): 150  
 Sampling Zone No.: 1  
 Starting Time: 1400 Finishing Time: 1440

Date: 1/24/01

Water Pressure Inside MP Casing - Beginning of Session: 14.37  
 End of Session: 14.34

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.37                    | ✓        | 33.78         | ✓          | 33.75         | ✓           | ✓       | 14.36          | 1418                     | 7.29 | 786             | 14.9             | .363                 |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.40                    | ✓        | 33.81         | ✓          | 33.80         | ✓           | ✓       | 14.34          |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 2 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 1/24/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PES/JWT

Well ID: MW-17 Depth (ft.): 468  
 Sampling Zone No.: 3  
 Starting Time: 1525 Finishing Time: 1710

Water Pressure Inside MP Casing -

Beginning of Session: 60.05  
 End of Session: 60.07

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |    |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|----|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 60.05                    | ✓        | 118.72        | ✓          | 118.70        | ✓           | ✓       | 60.03          |                          |    |                 |                  |                      |
| 2       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 60.09                    | ✓        | 118.73        | ✓          | 118.68        | ✓           | ✓       | 60.11          |                          |    |                 |                  |                      |
| 3       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 60.06                    | ✓        | 118.71        | ✓          | 118.61        | ✓           | ✓       | 60.07          |                          |    |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |    |                 |                  |                      |

Notes:

NDMA & 1,4-DIOXANE RE-SAMPLE  
NEW SAMPLE IS NUMBERED THE SAME AS ORIGINAL SAMPLE

Total Volume: 4 Liters

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/16/01Project Name: JPL PasadenaWell ID: MW-20Depth (ft.): 900Project No: 00HW019Sampling Zone No.: 5Personnel: PRE JNTStarting Time: 1119Finishing Time: 1140

Water Pressure Inside MP Casing -

Beginning of Session: 261.73End of Session: 261.75

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 261.73                   | ✓        | 315.93        | ✓          | 315.74        | ✓           | ✓       | 261.75         | 1140                     | 8.45 | 10              | 22.8             | .235                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 0.5 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/16/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PLS/JNT

Well ID: MW-20 Depth (ft.): 700  
 Sampling Zone No.: 4  
 Starting Time: 1147 Finishing Time: 1207

Water Pressure Inside MP Casing -

Beginning of Session: 174.68  
 End of Session: 174.68

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 174.68                   | ✓        | 229.98        | ✓          | 230.02        | ✓           | ✓       | 174.68         | 1205                     | 8.38 | 10              | 21.3             | .219                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: MW-20-4D IS A FIELD DUPLICATE. TAKEN AFTER  
REGULAR SAMPLE MW-20-4

Total Volume: 0.5 LITERS

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/10/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS JNT

Well ID: MW-20 Depth (ft.): 562  
 Sampling Zone No.: 3  
 Starting Time: 1213 Finishing Time: 1255

Water Pressure Inside MP Casing -

Beginning of Session: 114.75End of Session: 114.81

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 114.75                   | ✓        | 169.47        | ✓          | 169.49        | ✓           | ✓       | 114.81         | 1250                     | 7.77 | 10              | 19.3             | .413                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS/MSD SAMPLETotal Volume: 0.5 Liters

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PKJ JNT

Well ID: MW-20 Depth (ft.): 392  
Sampling Zone No.: 2  
Starting Time: 1255 Finishing Time: 1330

Date: 2/16/01

Water Pressure Inside MP Casing -

Beginning of Session: 41.84  
End of Session: 41.79

| Run No. | Surface Function Checks |                           |            |                    |              |                                | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 41.84                    | ✓        | 94.73         | ✓          | 94.72         | ✓           | ✓       | 41.79          | 1325                     | 7.56 | 10              | 17.0             | .348                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: 0.5 Liter

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/16/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ/JNT

Well ID: MW-20 Depth (ft.): 230

Sampling Zone No.: 1

Starting Time: 1340

Finishing Time: 1435

Water Pressure Inside MP Casing -

Beginning of Session: 14.40

End of Session: 14.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.40                    | ✓        | 23.71         | ✓          | 23.71         | ✓           | ✓       | 14.36          | 1430                     | 7.17 | 10              | 17.9             | .489                 |
| 2       |                         |                           |            |                    |              |                  |                          |          | 23.73         |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 0.5 Liter

**Groundwater Sampling**

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRS/JNT

Well ID: MW-18 Depth (ft.): 684  
 Sampling Zone No.: 5  
 Starting Time: 1500 Finishing Time: 1524

Date: 2/16/01

Water Pressure Inside MP Casing -  
 Beginning of Session: 147.29  
 End of Session: 147.31

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 147.29                   | ✓        | 199.31        | ✓          | 199.31        | ✓           | ✓       | 147.31         | 1520                     | 7.69 | 4               | 13.9             | .293                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Volume: 0.5 Liter

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/16/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRO/SNTV

Well ID: MW-18 Depth (ft.): 564  
 Sampling Zone No.: 4  
 Starting Time: 1526 Finishing Time: 1544

Water Pressure Inside MP Casing -

Beginning of Session: 95.17  
 End of Session: 95.16

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 95.17                    | ✓        | 148.27        | ✓          | 148.24        | ✓           | ✓       | 95.16          | 1540                     | 7.70 | 395             | 16.6             | .358                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 0.5 Liters

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JNT

Well ID: MW-18 Depth (ft.): 424  
Sampling Zone No.: 3  
Starting Time: 1545 Finishing Time: 1558

Date: 2/16/01

Water Pressure Inside MP Casing -

Beginning of Session: 34.34

End of Session: 34.36

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 34.34                    | ✓        | 88.83         | ✓          | 88.80         | ✓           | ✓       | 34.36          | 1555                     | 7.46 | 7               | 15.9             | .440                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
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Total Volume: 0.5 Liter

# SOTA Environmental Technology, Inc.

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## Groundwater Sampling Field Data Sheet for Multi-Port Well

Date: 2/16/01

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: REST JST

Well ID: MW-18 Depth (ft.): 330  
Sampling Zone No.: 2  
Starting Time: 1600 Finishing Time: 1612

Water Pressure Inside MP Casing -

Beginning of Session: 14.43  
End of Session: 14.46

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.43                    | ✓        | 45.65         | ✓          | 45.63         | ✓           | ✓       | 14.46          | 1610                     | 7.24 | 10              | 15.7             | 409                  |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: 0.5 Liters

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/16/01

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PROJEST

Well ID: MW-18 Depth (ft.): 270  
 Sampling Zone No.: 1  
 Starting Time: 1415 Finishing Time: 1630

Water Pressure Inside MP Casing -

Beginning of Session: 14.35  
 End of Session: 14.42

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.35                    | ✓        | 18.62         | ✓          | 18.56         | ✓           | ✓       | 14.42          | 1624                     | 7.08 | 9               | 15.6             | .327                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 0.5 Liter

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRJ JNT

Well ID: MW-19 Depth (ft.): 498  
 Sampling Zone No.: 5  
 Starting Time: 1014 Finishing Time: 1035

Date: 2/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 77.01  
 End of Session: 77.00

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 77.01                    | ✓        | 156.79        | ✓          | 156.71        | ✓           | ✓       | 77.00          | 1030                     | 7.67 | 10              | 17.4             | .544                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

WATER HAD A ROTTEN EGG SMELLTotal Volume: 0.5 Liter

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JNT

Well ID: MW-19 Depth (ft.): 444  
Sampling Zone No.: 4  
Starting Time: 1040 Finishing Time: 1052

Date: 2/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 53.47  
End of Session: 53.42

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 53.47                    | ✓        | 133.40        | ✓          | 133.37        | ✓           | ✓       | 53.42          | 1050                     | 7.74 | 10              | 10.6             | .360                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: WATER HAD A ROTTEN EGG SMELL

Total Volume: 0.5 Liter

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JNT

Well ID: MW-19 Depth (ft.): 392  
Sampling Zone No.: 3  
Starting Time: 1054 Finishing Time: 1120

Date: 4/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 30.94  
End of Session: 30.88

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 30.94                    | ✓        | 110.96        | ✓          | 110.96        | ✓           | ✓       | 30.88          | 1115                     | 7.15 | 10              | 18.2             | .955                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MS/MSD Sample SOME ODOOR NOT AS  
STRONG AS SCREEN 4 & 5

Total Volume: 0.5 Liter

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No: 00HW019  
 Personnel: PRO JNTV

Well ID: MW-19 Depth (ft.): 314  
 Sampling Zone No.: 2  
 Starting Time: 1123 Finishing Time: 1140

Date: 2/17/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.40  
 End of Session: 19.42

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 14.40                    | ✓        | 76.64         | ✓          | 76.61         | ✓           | ✓       | 14.42          | 1137                     | 6.51 | 10              | 18.6             | .604                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

MW-19-2D IS A FIELD DUPLICATE TAKEN AFTER  
REGULAR SAMPLE MW-19-2 (ORANGISH TINT TO WATER)  
SLIGHT

Total Volume: 0.5 Liters

# Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
 Project No.: 00HW019  
 Personnel: PKJ/JNT

Well ID: MW-19 Depth (ft.): 242  
 Sampling Zone No.: 1  
 Starting Time: 1142 Finishing Time: 1158

Date: 2/17/01

Water Pressure Inside MP Casing -  
 Beginning of Session: 14.36  
 End of Session: 14.38

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.36                    | ✓        | 44.80         | ✓          | 44.77         | ✓           | ✓       | 14.38          | 1155                     | 7.17 | 10              | 18.1             | 1375                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

WATER HAD A ORANGISH TINT TO IT

Total Volume: 0.5 Liter

# SOTA Environmental Technology, Inc.

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## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/17/01

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JNT

Well ID: MW-22 Depth (ft.): 588  
Sampling Zone No.: 5  
Starting Time: 1240 Finishing Time: 1253

Water Pressure Inside MP Casing -  
Beginning of Session: 133.63  
End of Session: 133.71

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 133.63                   | ✓        | 186.73        | ✓          | 186.70        | ✓           | ✓       | 133.71         | 1250                     | 8.38 | 10              | 20.5             | .339                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: 0.5 Liter

**Groundwater Sampling**

Field Data Sheet for Multi-Port Well

Date: 2/17/01

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRG/JNT

Well ID: MW-22 Depth (ft.): 467  
Sampling Zone No.: 4  
Starting Time: 1258 Finishing Time: 1310

Water Pressure Inside MP Casing -  
Beginning of Session: 81.11  
End of Session: 81.06

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure In MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 81.11                    | ✓        | 135.49        | ✓          | 135.49        | ✓           | ✓       | 81.06          | 1307                     | 7.79 | 10              | 20.1             | ,317                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: 0.5 Liters

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/17/01

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRJ/JST

Well ID: MW-22  
Sampling Zone No.: 3  
Starting Time: 1311  
Depth (ft.): 389  
Finishing Time: 1323

Water Pressure Inside MP Casing -

Beginning of Session: 47.29  
End of Session: 47.31

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 47.29                    | ✓        | 102.97        | ✓          | 102.97        | ✓           | ✓       | 47.31          | 1320                     | 7.45 | 10              | 19.7             | 437                  |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 0.5 Liter

## Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 2/17/01Project Name: JPL PasadenaWell ID: MW-22 Depth (ft.): 329Project No: 00HW019Sampling Zone No.: 2Personnel: PRJ/JNTStarting Time: 1325Finishing Time: 1337
 Water Pressure Inside MP Casing - Beginning of Session: 21.16  
 End of Session: 21.17

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler               | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|--------------------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed | Deactivate Set Arm Locate Port | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                              | 21.16                    | ✓        | 76.85         | ✓          | 76.80         | ✓           | ✓       | 21.17          | 1335                     | 7.43 | 10              | 19.4             | .492                 |
| 2       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                                |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes:

Total Volume: 0.5 Liter

**Groundwater Sampling**  
Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena  
Project No: 00HW019  
Personnel: PRS/JNT

Well ID: MW-22 Depth (ft.): 245  
Sampling Zone No.: 1  
Starting Time: 1340 Finishing Time: 1352

Date: 2/17/01

Water Pressure Inside MP Casing - Beginning of Session: 14.36  
End of Session: 14.37

| Run No. | Surface Function Checks |                           |            |                    |              | Position Sampler | Sample Collection Checks |          |               |            |               |             |         |                | Water Quality Parameters |      |                 |                  |                      |
|---------|-------------------------|---------------------------|------------|--------------------|--------------|------------------|--------------------------|----------|---------------|------------|---------------|-------------|---------|----------------|--------------------------|------|-----------------|------------------|----------------------|
|         | Shoe Out                | Vacuum Check Valve Closed | Valve Open | Evacuate Container | Valve Closed |                  | Pressure in MP           | Shoe out | Zone Pressure | Open Valve | Zone Pressure | Close Valve | Shoe In | Pressure in MP | Time                     | pH   | Turbidity (NTU) | Temperature (°C) | Conductivity (mmhos) |
| 1       | ✓                       | ✓                         | ✓          | ✓                  | ✓            | ✓                | 14.36                    | ✓        | 38.87         | ✓          | 38.85         | ✓           | ✓       | 14.37          | 1350                     | 6.87 | 8               | 18.7             | 1.20                 |
| 2       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 3       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 4       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 5       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 6       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 7       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 8       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 9       |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 10      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 11      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |
| 12      |                         |                           |            |                    |              |                  |                          |          |               |            |               |             |         |                |                          |      |                 |                  |                      |

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Volume: 0.5 Liter

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-3

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1100.34

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1012  | 1031   |
| Pressure (psia)  | 14.30 | 14.31  |
| Temperature (°C) | 19.42 | 18.60  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 653                 | 172.23                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 197.85                      |                            |               |      |                                               |                                   |
|            |                     |                            | 197.86                      |                            |               |      |                                               |                                   |
|            |                     |                            | 197.83                      |                            | 21.83         | 1017 | 229.56                                        | 870.78                            |
|            |                     |                            |                             | 172.26                     |               |      |                                               |                                   |
| 4          | 558                 | 130.97                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 168.40                      |                            |               |      |                                               |                                   |
|            |                     |                            | 168.38                      |                            |               |      |                                               |                                   |
|            |                     |                            | 168.41                      |                            | 22.61         | 1019 | 202.50                                        | 897.84                            |
|            |                     |                            |                             | 130.94                     |               |      |                                               |                                   |
| 3          | 346                 | 38.85                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 103.08                      |                            |               |      |                                               |                                   |
|            |                     |                            | 103.07                      |                            |               |      |                                               |                                   |
|            |                     |                            | 103.05                      |                            | 21.47         | 1023 | 141.22                                        | 959.12                            |
|            |                     |                            |                             | 38.87                      |               |      |                                               |                                   |
| 2          | 252                 | 14.43                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 63.13                       |                            |               |      |                                               |                                   |
|            |                     |                            | 63.08                       |                            |               |      |                                               |                                   |
|            |                     |                            | 63.10                       |                            | 20.20         | 1026 | 139.41                                        | 960.93                            |
|            |                     |                            |                             | 14.44                      |               |      |                                               |                                   |
| 1          | 172                 | 14.39                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 30.28                       |                            |               |      |                                               |                                   |
|            |                     |                            | 30.25                       |                            |               |      |                                               |                                   |
|            |                     |                            | 30.30                       |                            | 19.13         | 1029 | 135.14                                        | 965.20                            |
|            |                     |                            |                             | 14.39                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-4

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1082.84

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1527  | 1541   |
| Pressure (psia)  | 14.29 | 14.28  |
| Temperature (°C) | 20.90 | 19.82  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 513                 | 132.03                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 155.23                      |                            |               |      |                                               |                                   |
|            |                     |                            | 155.21                      |                            |               |      |                                               |                                   |
|            |                     |                            | 155.22                      |                            | 21.80         | 1531 | 187.87                                        | 894.97                            |
|            |                     |                            |                             | 132.11                     |               |      |                                               |                                   |
| 4          | 392                 | 79.40                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 129.29                      |                            |               |      |                                               |                                   |
|            |                     |                            | 129.25                      |                            |               |      |                                               |                                   |
|            |                     |                            | 129.27                      |                            | 21.85         | 1533 | 126.74                                        | 956.10                            |
|            |                     |                            |                             | 79.18                      |               |      |                                               |                                   |
| 3          | 322                 | 48.96                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 101.88                      |                            |               |      |                                               |                                   |
|            |                     |                            | 101.89                      |                            |               |      |                                               |                                   |
|            |                     |                            | 101.87                      |                            | 21.53         | 1535 | 119.93                                        | 962.91                            |
|            |                     |                            |                             | 48.97                      |               |      |                                               |                                   |
| 2          | 240                 | 14.40                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 66.84                       |                            |               |      |                                               |                                   |
|            |                     |                            | 66.83                       |                            |               |      |                                               |                                   |
|            |                     |                            | 66.85                       |                            | 20.85         | 1537 | 118.77                                        | 964.07                            |
|            |                     |                            |                             | 14.38                      |               |      |                                               |                                   |
| 1          | 150                 | 14.36                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 29.91                       |                            |               |      |                                               |                                   |
|            |                     |                            | 29.88                       |                            |               |      |                                               |                                   |
|            |                     |                            | 29.90                       |                            | 20.30         | 1539 | 114.00                                        | 968.84                            |
|            |                     |                            |                             | 14.36                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-11

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1139.30

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1648  | 1702   |
| Pressure (psia)  | 14.21 | 14.24  |
| Temperature (°C) | 21.60 | 18.68  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 639                 | 168.63                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 190.79                      |                            |               |      |                                               |                                   |
|            |                     |                            | 190.77                      |                            |               |      |                                               |                                   |
|            |                     |                            | 190.78                      |                            | 21.73         | 1652 | 231.65                                        | 907.65                            |
|            |                     |                            |                             | 168.64                     |               |      |                                               |                                   |
| 4          | 524                 | 119.12                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 162.99                      |                            |               |      |                                               |                                   |
|            |                     |                            | 162.96                      |                            |               |      |                                               |                                   |
|            |                     |                            | 162.97                      |                            | 21.73         | 1654 | 180.80                                        | 958.50                            |
|            |                     |                            |                             | 119.14                     |               |      |                                               |                                   |
| 3          | 429                 | 78.27                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 124.08                      |                            |               |      |                                               |                                   |
|            |                     |                            | 124.07                      |                            |               |      |                                               |                                   |
|            |                     |                            | 124.09                      |                            | 21.13         | 1656 | 175.53                                        | 963.77                            |
|            |                     |                            |                             | 78.26                      |               |      |                                               |                                   |
| 2          | 259                 | 14.37                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 55.27                       |                            |               |      |                                               |                                   |
|            |                     |                            | 55.28                       |                            |               |      |                                               |                                   |
|            |                     |                            | 55.26                       |                            | 19.71         | 1658 | 164.27                                        | 975.03                            |
|            |                     |                            |                             | 14.35                      |               |      |                                               |                                   |
| 1          | 149                 | 14.29                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 24.07                       |                            |               |      |                                               |                                   |
|            |                     |                            | 24.09                       |                            |               |      |                                               |                                   |
|            |                     |                            | 24.09                       |                            | 19.02         | 1700 | 126.22                                        | 1013.08                           |
|            |                     |                            |                             | 14.29                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-12

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1102.14

Weather: Sunny

#### Ambient Readings

|                  | Start | Finish |
|------------------|-------|--------|
| Time             | 918   | 953    |
| Pressure (psia)  | 14.26 | 14.28  |
| Temperature (°C) | 13.76 | 18.00  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 548                 | 134.07                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 166.54                      |                            |               |      |                                               |                                   |
|            |                     |                            | 166.52                      |                            |               |      |                                               |                                   |
|            |                     |                            | 166.53                      |                            | 21.56         | 935  | 196.71                                        | 905.43                            |
|            |                     |                            |                             | 134.07                     |               |      |                                               |                                   |
| 4          | 436                 | 85.35                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 139.47                      |                            |               |      |                                               |                                   |
|            |                     |                            | 139.49                      |                            |               |      |                                               |                                   |
|            |                     |                            | 139.46                      |                            | 20.91         | 941  | 147.13                                        | 955.01                            |
|            |                     |                            |                             | 85.37                      |               |      |                                               |                                   |
| 3          | 323                 | 36.20                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 94.46                       |                            |               |      |                                               |                                   |
|            |                     |                            | 94.47                       |                            |               |      |                                               |                                   |
|            |                     |                            | 94.45                       |                            | 19.26         | 946  | 137.98                                        | 964.16                            |
|            |                     |                            |                             | 36.21                      |               |      |                                               |                                   |
| 2          | 243                 | 14.38                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 60.50                       |                            |               |      |                                               |                                   |
|            |                     |                            | 60.47                       |                            |               |      |                                               |                                   |
|            |                     |                            | 60.49                       |                            | 18.61         | 949  | 136.36                                        | 965.78                            |
|            |                     |                            |                             | 14.40                      |               |      |                                               |                                   |
| 1          | 140                 | 14.35                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 19.40                       |                            |               |      |                                               |                                   |
|            |                     |                            | 19.41                       |                            |               |      |                                               |                                   |
|            |                     |                            | 19.38                       |                            | 18.29         | 951  | 128.15                                        | 973.99                            |
|            |                     |                            |                             | 14.34                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-14

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1173.47

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1422  | 1446   |
| Pressure (psia)  | 14.20 | 14.22  |
| Temperature (°C) | 20.56 | 19.48  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 540                 | 132.77                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 167.96                      |                            |               |      |                                               |                                   |
|            |                     |                            | 167.91                      |                            |               |      |                                               |                                   |
|            |                     |                            | 167.93                      |                            | 21.33         | 1426 | 185.34                                        | 988.13                            |
|            |                     |                            |                             | 132.80                     |               |      |                                               |                                   |
| 4          | 456                 | 99.30                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 131.63                      |                            |               |      |                                               |                                   |
|            |                     |                            | 131.65                      |                            |               |      |                                               |                                   |
|            |                     |                            | 131.62                      |                            | 20.77         | 1438 | 185.08                                        | 988.39                            |
|            |                     |                            |                             | 96.25                      |               |      |                                               |                                   |
| 3          | 382                 | 64.07                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 99.54                       |                            |               |      |                                               |                                   |
|            |                     |                            | 99.51                       |                            |               |      |                                               |                                   |
|            |                     |                            | 99.56                       |                            | 20.45         | 1440 | 185.13                                        | 988.34                            |
|            |                     |                            |                             | 64.09                      |               |      |                                               |                                   |
| 2          | 277                 | 18.39                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 53.80                       |                            |               |      |                                               |                                   |
|            |                     |                            | 53.77                       |                            |               |      |                                               |                                   |
|            |                     |                            | 53.82                       |                            | 19.95         | 1442 | 185.65                                        | 987.82                            |
|            |                     |                            |                             | 18.38                      |               |      |                                               |                                   |
| 1          | 207                 | 14.34                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 23.54                       |                            |               |      |                                               |                                   |
|            |                     |                            | 23.51                       |                            |               |      |                                               |                                   |
|            |                     |                            | 23.53                       |                            | 19.62         | 1445 | 185.48                                        | 987.99                            |
|            |                     |                            |                             | 14.32                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-17

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1191.21

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1045  | 1101   |
| Pressure (psia)  | 14.25 | 14.25  |
| Temperature (°C) | 19.57 | 16.14  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 726                 | 169.30                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 201.18                      |                            |               |      |                                               |                                   |
|            |                     |                            | 201.19                      |                            |               |      |                                               |                                   |
|            |                     |                            | 201.17                      |                            | 20.23         | 1050 | 294.75                                        | 896.46                            |
|            |                     |                            |                             | 169.31                     |               |      |                                               |                                   |
| 4          | 582                 | 106.77                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 142.92                      |                            |               |      |                                               |                                   |
|            |                     |                            | 142.93                      |                            |               |      |                                               |                                   |
|            |                     |                            | 142.91                      |                            | 19.75         | 1052 | 285.16                                        | 906.05                            |
|            |                     |                            |                             | 106.73                     |               |      |                                               |                                   |
| 3          | 468                 | 57.18                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 112.51                      |                            |               |      |                                               |                                   |
|            |                     |                            | 112.50                      |                            |               |      |                                               |                                   |
|            |                     |                            | 112.52                      |                            | 18.35         | 1055 | 241.31                                        | 949.90                            |
|            |                     |                            |                             | 57.19                      |               |      |                                               |                                   |
| 2          | 370                 | 14.39                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 72.58                       |                            |               |      |                                               |                                   |
|            |                     |                            | 72.56                       |                            |               |      |                                               |                                   |
|            |                     |                            | 72.57                       |                            | 17.11         | 1057 | 235.46                                        | 955.75                            |
|            |                     |                            |                             | 14.37                      |               |      |                                               |                                   |
| 1          | 250                 | 14.35                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 20.87                       |                            |               |      |                                               |                                   |
|            |                     |                            | 20.84                       |                            |               |      |                                               |                                   |
|            |                     |                            | 20.89                       |                            | 16.46         | 1059 | 234.74                                        | 956.47                            |
|            |                     |                            |                             | 14.37                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-18

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1225.41

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1113  | 1135   |
| Pressure (psia)  | 14.24 | 14.23  |
| Temperature (°C) | 17.91 | 17.34  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 684                 | 147.12                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 179.52                      |                            |               |      |                                               |                                   |
|            |                     |                            | 179.50                      |                            |               |      |                                               |                                   |
|            |                     |                            | 179.51                      |                            | 21.26         | 1120 | 302.72                                        | 922.69                            |
|            |                     |                            |                             | 147.11                     |               |      |                                               |                                   |
| 4          | 564                 | 94.99                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 132.80                      |                            |               |      |                                               |                                   |
|            |                     |                            | 132.82                      |                            |               |      |                                               |                                   |
|            |                     |                            | 132.79                      |                            | 21.23         | 1124 | 290.47                                        | 934.94                            |
|            |                     |                            |                             | 94.97                      |               |      |                                               |                                   |
| 3          | 424                 | 34.14                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 81.22                       |                            |               |      |                                               |                                   |
|            |                     |                            | 81.20                       |                            |               |      |                                               |                                   |
|            |                     |                            | 81.21                       |                            | 19.95         | 1126 | 269.50                                        | 955.91                            |
|            |                     |                            |                             | 34.13                      |               |      |                                               |                                   |
| 2          | 330                 | 14.39                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 40.32                       |                            |               |      |                                               |                                   |
|            |                     |                            | 40.30                       |                            |               |      |                                               |                                   |
|            |                     |                            | 40.33                       |                            | 18.63         | 1129 | 269.84                                        | 955.57                            |
|            |                     |                            |                             | 14.39                      |               |      |                                               |                                   |
| 1          | 270                 | 14.34                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 14.35                       |                            |               |      |                                               |                                   |
|            |                     |                            | 14.36                       |                            |               |      |                                               |                                   |
|            |                     |                            | 14.37                       |                            | 17.66         | 1132 | 269.72                                        | 955.69                            |
|            |                     |                            |                             | 14.31                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-19

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1142.94

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1225  | 1238   |
| Pressure (psia)  | 14.25 | 14.25  |
| Temperature (°C) | 18.51 | 17.94  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 498                 | 77.97                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 105.71                      |                            |               |      |                                               |                                   |
|            |                     |                            | 105.69                      |                            |               |      |                                               |                                   |
|            |                     |                            | 105.72                      |                            | 18.72         | 1229 | 287.01                                        | 855.93                            |
|            |                     |                            |                             | 77.98                      |               |      |                                               |                                   |
| 4          | 444                 | 54.48                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 84.13                       |                            |               |      |                                               |                                   |
|            |                     |                            | 84.14                       |                            |               |      |                                               |                                   |
|            |                     |                            | 84.15                       |                            | 18.58         | 1231 | 282.76                                        | 860.18                            |
|            |                     |                            |                             | 54.47                      |               |      |                                               |                                   |
| 3          | 392                 | 31.86                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 99.88                       |                            |               |      |                                               |                                   |
|            |                     |                            | 99.85                       |                            |               |      |                                               |                                   |
|            |                     |                            | 99.87                       |                            | 18.24         | 1232 | 194.48                                        | 948.46                            |
|            |                     |                            |                             | 31.87                      |               |      |                                               |                                   |
| 2          | 314                 | 14.43                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 67.48                       |                            |               |      |                                               |                                   |
|            |                     |                            | 67.50                       |                            |               |      |                                               |                                   |
|            |                     |                            | 67.47                       |                            | 18.31         | 1234 | 191.19                                        | 951.75                            |
|            |                     |                            |                             | 14.37                      |               |      |                                               |                                   |
| 1          | 242                 | 14.38                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 38.65                       |                            |               |      |                                               |                                   |
|            |                     |                            | 38.63                       |                            |               |      |                                               |                                   |
|            |                     |                            | 38.64                       |                            | 18.18         | 1236 | 185.73                                        | 957.21                            |
|            |                     |                            |                             | 14.38                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-20

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1165.05

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1152  | 1212   |
| Pressure (psia)  | 14.25 | 14.22  |
| Temperature (°C) | 19.42 | 17.52  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 900                 | 261.38                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 310.84                      |                            |               |      |                                               |                                   |
|            |                     |                            | 310.82                      |                            |               |      |                                               |                                   |
|            |                     |                            | 310.85                      |                            | 21.27         | 1158 | 215.77                                        | 949.28                            |
|            |                     |                            |                             | 261.41                     |               |      |                                               |                                   |
| 4          | 700                 | 174.54                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 215.42                      |                            |               |      |                                               |                                   |
|            |                     |                            | 215.37                      |                            |               |      |                                               |                                   |
|            |                     |                            | 215.39                      |                            | 22.25         | 1202 | 235.96                                        | 929.09                            |
|            |                     |                            |                             | 174.55                     |               |      |                                               |                                   |
| 3          | 562                 | 114.57                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 161.90                      |                            |               |      |                                               |                                   |
|            |                     |                            | 161.86                      |                            |               |      |                                               |                                   |
|            |                     |                            | 161.88                      |                            | 21.50         | 1204 | 221.42                                        | 943.63                            |
|            |                     |                            |                             | 114.54                     |               |      |                                               |                                   |
| 2          | 392                 | 40.66                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 91.26                       |                            |               |      |                                               |                                   |
|            |                     |                            | 91.24                       |                            |               |      |                                               |                                   |
|            |                     |                            | 91.25                       |                            | 19.71         | 1208 | 214.36                                        | 950.69                            |
|            |                     |                            |                             | 40.64                      |               |      |                                               |                                   |
| 1          | 230                 | 14.33                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 15.70                       |                            |               |      |                                               |                                   |
|            |                     |                            | 15.67                       |                            |               |      |                                               |                                   |
|            |                     |                            | 15.72                       |                            | 18.07         | 1210 | 226.66                                        | 938.39                            |
|            |                     |                            |                             | 14.32                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-21

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1059.10

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1340  | 1406   |
| Pressure (psia)  | 14.32 | 14.28  |
| Temperature (°C) | 21.44 | 18.99  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 372                 | 124.43                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 140.73                      |                            |               |      |                                               |                                   |
|            |                     |                            | 140.72                      |                            |               |      |                                               |                                   |
|            |                     |                            | 140.70                      |                            | 21.05         | 1345 | 80.40                                         | 978.70                            |
|            |                     |                            |                             | 124.42                     |               |      |                                               |                                   |
| 4          | 310                 | 97.54                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 113.87                      |                            |               |      |                                               |                                   |
|            |                     |                            | 113.88                      |                            |               |      |                                               |                                   |
|            |                     |                            | 113.87                      |                            | 19.70         | 1357 | 80.33                                         | 978.77                            |
|            |                     |                            |                             | 97.43                      |               |      |                                               |                                   |
| 3          | 240                 | 67.23                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 116.63                      |                            |               |      |                                               |                                   |
|            |                     |                            | 116.65                      |                            |               |      |                                               |                                   |
|            |                     |                            | 116.64                      |                            | 19.57         | 1400 | 3.95                                          | 1055.15                           |
|            |                     |                            |                             | 67.21                      |               |      |                                               |                                   |
| 2          | 161                 | 33.07                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 49.68                       |                            |               |      |                                               |                                   |
|            |                     |                            | 49.70                       |                            |               |      |                                               |                                   |
|            |                     |                            | 49.66                       |                            | 19.40         | 1403 | 79.42                                         | 979.68                            |
|            |                     |                            |                             | 33.08                      |               |      |                                               |                                   |
| 1          | 90                  | 14.34                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 18.32                       |                            |               |      |                                               |                                   |
|            |                     |                            | 18.35                       |                            |               |      |                                               |                                   |
|            |                     |                            | 18.34                       |                            | 19.00         | 1405 | 80.73                                         | 978.37                            |
|            |                     |                            |                             | 14.33                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena Well ID: MW-22  
 Project No: 00HW019 Probe Type: Westbay  
 Date: 12/28/00 Serial No.: 20502  
 Personnel: PRJ/MES/JNT  
 Datum: TOC Casing Size/Type: 1.5" Westbay  
 Elevation of Datum (ft. +MSL): 1176.98  
 Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1552  | 1607   |
| Pressure (psia)  | 14.21 | 14.23  |
| Temperature (°C) | 20.99 | 20.53  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 588                 | 133.07                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 172.55                      |                            |               |      |                                               |                                   |
|            |                     |                            | 172.49                      |                            |               |      |                                               |                                   |
|            |                     |                            | 172.50                      |                            | 22.23         | 1557 | 222.79                                        | 954.19                            |
|            |                     |                            |                             | 133.07                     |               |      |                                               |                                   |
| 4          | 467                 | 80.55                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 124.31                      |                            |               |      |                                               |                                   |
|            |                     |                            | 124.28                      |                            |               |      |                                               |                                   |
|            |                     |                            | 124.29                      |                            | 22.23         | 1559 | 213.04                                        | 963.94                            |
|            |                     |                            |                             | 80.53                      |               |      |                                               |                                   |
| 3          | 389                 | 46.64                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 96.86                       |                            |               |      |                                               |                                   |
|            |                     |                            | 96.87                       |                            |               |      |                                               |                                   |
|            |                     |                            | 96.84                       |                            | 21.90         | 1601 | 198.33                                        | 978.65                            |
|            |                     |                            |                             | 46.63                      |               |      |                                               |                                   |
| 2          | 329                 | 20.55                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 70.66                       |                            |               |      |                                               |                                   |
|            |                     |                            | 70.64                       |                            |               |      |                                               |                                   |
|            |                     |                            | 70.65                       |                            | 21.40         | 1603 | 198.79                                        | 978.19                            |
|            |                     |                            |                             | 20.54                      |               |      |                                               |                                   |
| 1          | 245                 | 14.85                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 33.56                       |                            |               |      |                                               |                                   |
|            |                     |                            | 33.52                       |                            |               |      |                                               |                                   |
|            |                     |                            | 33.55                       |                            | 20.85         | 1605 | 200.40                                        | 976.58                            |
|            |                     |                            |                             | 14.34                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena Well ID: MW-23  
 Project No: 00HW019 Probe Type: Westbay  
 Date: 12/28/00 Serial No.: 20502  
 Personnel: PRJ/MES/JNT  
 Datum: TOC Casing Size/Type: 1.5" Westbay  
 Elevation of Datum (ft. +MSL): 1108.84  
 Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1457  | 1513   |
| Pressure (psia)  | 14.27 | 14.25  |
| Temperature (°C) | 20.92 | 19.93  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 542                 | 158.48                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 182.42                      |                            |               |      |                                               |                                   |
|            |                     |                            | 182.43                      |                            |               |      |                                               |                                   |
|            |                     |                            | 182.41                      |                            | 21.52         | 1500 | 154.08                                        | 954.76                            |
|            |                     |                            |                             | 158.48                     |               |      |                                               |                                   |
| 4          | 445                 | 116.38                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 140.62                      |                            |               |      |                                               |                                   |
|            |                     |                            | 140.59                      |                            |               |      |                                               |                                   |
|            |                     |                            | 140.60                      |                            | 21.77         | 1502 | 153.55                                        | 955.29                            |
|            |                     |                            |                             | 116.37                     |               |      |                                               |                                   |
| 3          | 319                 | 61.60                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 93.57                       |                            |               |      |                                               |                                   |
|            |                     |                            | 93.56                       |                            |               |      |                                               |                                   |
|            |                     |                            | 93.57                       |                            | 20.61         | 1507 | 136.06                                        | 972.78                            |
|            |                     |                            |                             | 61.63                      |               |      |                                               |                                   |
| 2          | 254                 | 33.40                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 65.34                       |                            |               |      |                                               |                                   |
|            |                     |                            | 65.31                       |                            |               |      |                                               |                                   |
|            |                     |                            | 65.32                       |                            | 20.37         | 1509 | 136.22                                        | 972.62                            |
|            |                     |                            |                             | 33.39                      |               |      |                                               |                                   |
| 1          | 174                 | 14.36                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 31.17                       |                            |               |      |                                               |                                   |
|            |                     |                            | 31.16                       |                            |               |      |                                               |                                   |
|            |                     |                            | 31.17                       |                            | 20.07         | 1511 | 135.02                                        | 973.82                            |
|            |                     |                            |                             | 14.35                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-24

Project No: 00HW019

Probe Type: Westbay

Date: 12/28/00

Serial No.: 20502

Personnel: PRJ/MES/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1200.94

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1619  | 1639   |
| Pressure (psia)  | 14.22 | 14.20  |
| Temperature (°C) | 20.70 | 20.95  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 678                 | 167.55                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 191.26                      |                            |               |      |                                               |                                   |
|            |                     |                            | 191.27                      |                            |               |      |                                               |                                   |
|            |                     |                            | 191.25                      |                            | 22.62         | 1624 | 269.57                                        | 931.37                            |
|            |                     |                            |                             | 167.53                     |               |      |                                               |                                   |
| 4          | 554                 | 113.66                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 145.69                      |                            |               |      |                                               |                                   |
|            |                     |                            | 145.68                      |                            |               |      |                                               |                                   |
|            |                     |                            | 145.70                      |                            | 22.02         | 1628 | 250.70                                        | 950.24                            |
|            |                     |                            |                             | 113.64                     |               |      |                                               |                                   |
| 3          | 435                 | 62.01                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 102.44                      |                            |               |      |                                               |                                   |
|            |                     |                            | 102.42                      |                            |               |      |                                               |                                   |
|            |                     |                            | 102.43                      |                            | 21.94         | 1630 | 231.50                                        | 969.44                            |
|            |                     |                            |                             | 61.98                      |               |      |                                               |                                   |
| 2          | 373                 | 35.03                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 75.94                       |                            |               |      |                                               |                                   |
|            |                     |                            | 75.96                       |                            |               |      |                                               |                                   |
|            |                     |                            | 75.93                       |                            | 21.62         | 1633 | 230.60                                        | 970.34                            |
|            |                     |                            |                             | 35.06                      |               |      |                                               |                                   |
| 1          | 279                 | 14.37                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 35.79                       |                            |               |      |                                               |                                   |
|            |                     |                            | 35.80                       |                            |               |      |                                               |                                   |
|            |                     |                            | 35.82                       |                            | 21.18         | 1637 | 229.21                                        | 971.73                            |
|            |                     |                            |                             | 14.35                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-3

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1100.34

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1227  | 1257   |
| Pressure (psia)  | 14.27 | 14.31  |
| Temperature (°C) | 20.65 | 19.13  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 653                 | 172.54                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 240.46                      |                            |               |      |                                               |                                   |
|            |                     |                            | 240.41                      |                            |               |      |                                               |                                   |
|            |                     |                            | 240.43                      |                            | 23.92         | 1244 | 131.24                                        | 969.10                            |
|            |                     |                            |                             | 172.59                     |               |      |                                               |                                   |
| 4          | 558                 | 131.33                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 200.43                      |                            |               |      |                                               |                                   |
|            |                     |                            | 200.35                      |                            |               |      |                                               |                                   |
|            |                     |                            | 200.33                      |                            | 23.50         | 1248 | 128.67                                        | 971.67                            |
|            |                     |                            |                             | 131.38                     |               |      |                                               |                                   |
| 3          | 346                 | 39.34                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 110.39                      |                            |               |      |                                               |                                   |
|            |                     |                            | 110.31                      |                            |               |      |                                               |                                   |
|            |                     |                            | 110.26                      |                            | 22.13         | 1251 | 124.41                                        | 975.93                            |
|            |                     |                            |                             | 39.30                      |               |      |                                               |                                   |
| 2          | 252                 | 14.40                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 66.31                       |                            |               |      |                                               |                                   |
|            |                     |                            | 66.28                       |                            |               |      |                                               |                                   |
|            |                     |                            | 66.26                       |                            | 20.81         | 1254 | 132.01                                        | 968.33                            |
|            |                     |                            |                             | 14.43                      |               |      |                                               |                                   |
| 1          | 172                 | 14.35                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 35.97                       |                            |               |      |                                               |                                   |
|            |                     |                            | 36.02                       |                            |               |      |                                               |                                   |
|            |                     |                            | 35.99                       |                            | 19.98         | 1256 | 121.88                                        | 978.46                            |
|            |                     |                            |                             | 14.36                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-4

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1082.84

Weather: Cold

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1915  | 1927   |
| Pressure (psia)  | 14.33 | 14.33  |
| Temperature (°C) | 16.05 | 19.65  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 513                 | 132.13                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 188.67                      |                            |               |      |                                               |                                   |
|            |                     |                            | 188.65                      |                            |               |      |                                               |                                   |
|            |                     |                            | 188.70                      |                            | 19.90         | 1919 | 110.79                                        | 972.05                            |
|            |                     |                            |                             | 132.11                     |               |      |                                               |                                   |
| 4          | 392                 | 79.52                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 138.81                      |                            |               |      |                                               |                                   |
|            |                     |                            | 138.78                      |                            |               |      |                                               |                                   |
|            |                     |                            | 138.83                      |                            | 20.72         | 1921 | 104.83                                        | 978.01                            |
|            |                     |                            |                             | 79.52                      |               |      |                                               |                                   |
| 3          | 322                 | 49.11                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 108.61                      |                            |               |      |                                               |                                   |
|            |                     |                            | 108.59                      |                            |               |      |                                               |                                   |
|            |                     |                            | 108.56                      |                            | 20.70         | 1923 | 104.55                                        | 978.29                            |
|            |                     |                            |                             | 49.08                      |               |      |                                               |                                   |
| 2          | 240                 | 14.53                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 72.91                       |                            |               |      |                                               |                                   |
|            |                     |                            | 72.89                       |                            |               |      |                                               |                                   |
|            |                     |                            | 72.94                       |                            | 20.43         | 1924 | 104.85                                        | 977.99                            |
|            |                     |                            |                             | 14.48                      |               |      |                                               |                                   |
| 1          | 150                 | 14.41                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 35.13                       |                            |               |      |                                               |                                   |
|            |                     |                            | 35.16                       |                            |               |      |                                               |                                   |
|            |                     |                            | 35.11                       |                            | 20.03         | 1926 | 102.01                                        | 980.83                            |
|            |                     |                            |                             | 14.43                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-11

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1139.30

Weather: Cold

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1743  | 1838   |
| Pressure (psia)  | 14.34 | 14.29  |
| Temperature (°C) | 18.80 | 18.25  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 639                 | 168.27                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 217.90                      |                            |               |      |                                               |                                   |
|            |                     |                            | 217.87                      |                            |               |      |                                               |                                   |
|            |                     |                            | 217.88                      |                            | 19.80         | 1823 | 169.43                                        | 969.87                            |
|            |                     |                            |                             | 168.28                     |               |      |                                               |                                   |
| 4          | 524                 | 118.78                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 175.02                      |                            |               |      |                                               |                                   |
|            |                     |                            | 175.04                      |                            |               |      |                                               |                                   |
|            |                     |                            | 175.01                      |                            | 20.65         | 1825 | 153.30                                        | 986.00                            |
|            |                     |                            |                             | 118.75                     |               |      |                                               |                                   |
| 3          | 429                 | 77.90                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 132.11                      |                            |               |      |                                               |                                   |
|            |                     |                            | 132.16                      |                            |               |      |                                               |                                   |
|            |                     |                            | 132.13                      |                            | 19.82         | 1830 | 157.25                                        | 982.05                            |
|            |                     |                            |                             | 77.92                      |               |      |                                               |                                   |
| 2          | 259                 | 14.44                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 60.28                       |                            |               |      |                                               |                                   |
|            |                     |                            | 60.26                       |                            |               |      |                                               |                                   |
|            |                     |                            | 60.20                       |                            | 18.95         | 1834 | 153.09                                        | 986.21                            |
|            |                     |                            |                             | 14.42                      |               |      |                                               |                                   |
| 1          | 149                 | 14.34                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 25.57                       |                            |               |      |                                               |                                   |
|            |                     |                            | 25.60                       |                            |               |      |                                               |                                   |
|            |                     |                            | 25.65                       |                            | 18.45         | 1836 | 123.01                                        | 1016.29                           |
|            |                     |                            |                             | 14.37                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-12

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1102.14

Weather: Cold

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1851  | 1906   |
| Pressure (psia)  | 14.36 | 14.34  |
| Temperature (°C) | 15.37 | 18.04  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 548                 | 133.74                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 196.15                      |                            |               |      |                                               |                                   |
|            |                     |                            | 196.12                      |                            |               |      |                                               |                                   |
|            |                     |                            | 196.18                      |                            | 19.08         | 1856 | 128.61                                        | 973.53                            |
|            |                     |                            |                             | 133.80                     |               |      |                                               |                                   |
| 4          | 436                 | 85.10                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 149.97                      |                            |               |      |                                               |                                   |
|            |                     |                            | 149.94                      |                            |               |      |                                               |                                   |
|            |                     |                            | 149.92                      |                            | 19.90         | 1858 | 123.21                                        | 978.93                            |
|            |                     |                            |                             | 85.10                      |               |      |                                               |                                   |
| 3          | 323                 | 36.00                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 100.80                      |                            |               |      |                                               |                                   |
|            |                     |                            | 100.77                      |                            |               |      |                                               |                                   |
|            |                     |                            | 100.83                      |                            | 19.31         | 1900 | 123.58                                        | 978.56                            |
|            |                     |                            |                             | 35.95                      |               |      |                                               |                                   |
| 2          | 243                 | 14.44                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 66.21                       |                            |               |      |                                               |                                   |
|            |                     |                            | 66.18                       |                            |               |      |                                               |                                   |
|            |                     |                            | 66.23                       |                            | 18.56         | 1902 | 123.39                                        | 978.75                            |
|            |                     |                            |                             | 14.44                      |               |      |                                               |                                   |
| 1          | 140                 | 14.37                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 25.11                       |                            |               |      |                                               |                                   |
|            |                     |                            | 25.13                       |                            |               |      |                                               |                                   |
|            |                     |                            | 25.08                       |                            | 18.16         | 1904 | 115.21                                        | 986.93                            |
|            |                     |                            |                             | 14.37                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-14

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC Casing Size/Type: 1.5" Westbay

Elevation of Datum (ft. +MSL): 1173.47

Weather: Cold

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1620  | 1646   |
| Pressure (psia)  | 14.29 | 14.33  |
| Temperature (°C) | 16.31 | 19.34  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 540                 | 132.45                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 170.90                      |                            |               |      |                                               |                                   |
|            |                     |                            | 170.93                      |                            |               |      |                                               |                                   |
|            |                     |                            | 170.90                      |                            | 20.69         | 1628 | 178.68                                        | 994.79                            |
|            |                     |                            |                             | 132.43                     |               |      |                                               |                                   |
| 4          | 456                 | 95.94                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 134.39                      |                            |               |      |                                               |                                   |
|            |                     |                            | 134.41                      |                            |               |      |                                               |                                   |
|            |                     |                            | 134.36                      |                            | 20.79         | 1630 | 178.94                                        | 994.53                            |
|            |                     |                            |                             | 95.92                      |               |      |                                               |                                   |
| 3          | 382                 | 63.75                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 102.21                      |                            |               |      |                                               |                                   |
|            |                     |                            | 102.24                      |                            |               |      |                                               |                                   |
|            |                     |                            | 102.18                      |                            | 19.85         | 1639 | 179.17                                        | 994.30                            |
|            |                     |                            |                             | 63.73                      |               |      |                                               |                                   |
| 2          | 277                 | 18.14                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 56.47                       |                            |               |      |                                               |                                   |
|            |                     |                            | 56.46                       |                            |               |      |                                               |                                   |
|            |                     |                            | 56.50                       |                            | 19.45         | 1642 | 179.68                                        | 993.79                            |
|            |                     |                            |                             | 18.16                      |               |      |                                               |                                   |
| 1          | 207                 | 14.46                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 26.17                       |                            |               |      |                                               |                                   |
|            |                     |                            | 26.19                       |                            |               |      |                                               |                                   |
|            |                     |                            | 26.17                       |                            | 19.39         | 1644 | 179.58                                        | 993.89                            |
|            |                     |                            |                             | 14.44                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-17

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1191.21

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1523  | 1538   |
| Pressure (psia)  | 14.32 | 14.25  |
| Temperature (°C) | 17.47 | 16.48  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 726                 | 169.06                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 231.44                      |                            |               |      |                                               |                                   |
|            |                     |                            | 231.42                      |                            |               |      |                                               |                                   |
|            |                     |                            | 231.45                      |                            | 19.48         | 1529 | 225.11                                        | 966.10                            |
|            |                     |                            |                             | 169.06                     |               |      |                                               |                                   |
| 4          | 582                 | 106.55                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 170.00                      |                            |               |      |                                               |                                   |
|            |                     |                            | 169.98                      |                            |               |      |                                               |                                   |
|            |                     |                            | 170.03                      |                            | 19.33         | 1531 | 222.84                                        | 968.37                            |
|            |                     |                            |                             | 106.52                     |               |      |                                               |                                   |
| 3          | 468                 | 56.97                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 119.45                      |                            |               |      |                                               |                                   |
|            |                     |                            | 119.47                      |                            |               |      |                                               |                                   |
|            |                     |                            | 119.42                      |                            | 18.05         | 1534 | 225.47                                        | 965.74                            |
|            |                     |                            |                             | 57.00                      |               |      |                                               |                                   |
| 2          | 370                 | 14.43                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 78.10                       |                            |               |      |                                               |                                   |
|            |                     |                            | 78.08                       |                            |               |      |                                               |                                   |
|            |                     |                            | 78.13                       |                            | 17.24         | 1535 | 222.85                                        | 968.36                            |
|            |                     |                            |                             | 14.43                      |               |      |                                               |                                   |
| 1          | 250                 | 14.40                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 15.14                       |                            |               |      |                                               |                                   |
|            |                     |                            | 15.19                       |                            |               |      |                                               |                                   |
|            |                     |                            | 15.16                       |                            | 16.66         | 1537 | 248.05                                        | 943.16                            |
|            |                     |                            |                             | 14.41                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-18

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1225.41

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1346  | 1405   |
| Pressure (psia)  | 14.25 | 14.21  |
| Temperature (°C) | 19.75 | 17.86  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 684                 | 146.31                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 197.19                      |                            |               |      |                                               |                                   |
|            |                     |                            | 197.17                      |                            |               |      |                                               |                                   |
|            |                     |                            | 197.14                      |                            | 20.60         | 1352 | 262.01                                        | 963.40                            |
|            |                     |                            |                             | 146.31                     |               |      |                                               |                                   |
| 4          | 564                 | 94.22                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 146.37                      |                            |               |      |                                               |                                   |
|            |                     |                            | 146.39                      |                            |               |      |                                               |                                   |
|            |                     |                            | 146.41                      |                            | 21.10         | 1357 | 259.15                                        | 966.26                            |
|            |                     |                            |                             | 94.22                      |               |      |                                               |                                   |
| 3          | 424                 | 33.44                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 86.59                       |                            |               |      |                                               |                                   |
|            |                     |                            | 86.57                       |                            |               |      |                                               |                                   |
|            |                     |                            | 86.62                       |                            | 20.08         | 1359 | 257.10                                        | 968.31                            |
|            |                     |                            |                             | 33.44                      |               |      |                                               |                                   |
| 2          | 330                 | 14.37                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 43.56                       |                            |               |      |                                               |                                   |
|            |                     |                            | 43.59                       |                            |               |      |                                               |                                   |
|            |                     |                            | 43.61                       |                            | 18.52         | 1402 | 262.32                                        | 963.09                            |
|            |                     |                            |                             | 14.37                      |               |      |                                               |                                   |
| 1          | 270                 | 14.37                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 16.69                       |                            |               |      |                                               |                                   |
|            |                     |                            | 16.71                       |                            |               |      |                                               |                                   |
|            |                     |                            | 16.74                       |                            | 18.10         | 1404 | 264.32                                        | 961.09                            |
|            |                     |                            |                             | 14.36                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-19

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1142.94

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1150  | 1208   |
| Pressure (psia)  | 14.27 | 14.16  |
| Temperature (°C) | 13.38 | 17.71  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 498                 | 75.94                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 154.60                      |                            |               |      |                                               |                                   |
|            |                     |                            | 154.62                      |                            |               |      |                                               |                                   |
|            |                     |                            | 154.62                      |                            | 17.48         | 1157 | 174.23                                        | 968.71                            |
|            |                     |                            |                             | 75.91                      |               |      |                                               |                                   |
| 4          | 444                 | 52.41                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 131.28                      |                            |               |      |                                               |                                   |
|            |                     |                            | 131.20                      |                            |               |      |                                               |                                   |
|            |                     |                            | 131.23                      |                            | 17.59         | 1159 | 174.16                                        | 968.78                            |
|            |                     |                            |                             | 52.43                      |               |      |                                               |                                   |
| 3          | 392                 | 29.83                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 108.99                      |                            |               |      |                                               |                                   |
|            |                     |                            | 108.94                      |                            |               |      |                                               |                                   |
|            |                     |                            | 108.91                      |                            | 17.55         | 1202 | 173.58                                        | 969.36                            |
|            |                     |                            |                             | 29.85                      |               |      |                                               |                                   |
| 2          | 314                 | 14.32                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 74.66                       |                            |               |      |                                               |                                   |
|            |                     |                            | 74.56                       |                            |               |      |                                               |                                   |
|            |                     |                            | 74.58                       |                            | 17.84         | 1204 | 174.82                                        | 968.12                            |
|            |                     |                            |                             | 14.40                      |               |      |                                               |                                   |
| 1          | 242                 | 14.27                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 42.47                       |                            |               |      |                                               |                                   |
|            |                     |                            | 42.42                       |                            |               |      |                                               |                                   |
|            |                     |                            | 42.44                       |                            | 17.81         | 1206 | 177.00                                        | 965.94                            |
|            |                     |                            |                             | 14.24                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-20

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1165.05

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1424  | 1513   |
| Pressure (psia)  | 14.26 | 14.32  |
| Temperature (°C) | 18.69 | 17.71  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 900                 | 260.73                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 314.59                      |                            |               |      |                                               |                                   |
|            |                     |                            | 314.61                      |                            |               |      |                                               |                                   |
|            |                     |                            | 314.56                      |                            | 23.55         | 1439 | 207.15                                        | 957.90                            |
|            |                     |                            |                             | 260.73                     |               |      |                                               |                                   |
| 4          | 700                 | 173.88                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 227.87                      |                            |               |      |                                               |                                   |
|            |                     |                            | 227.84                      |                            |               |      |                                               |                                   |
|            |                     |                            | 227.87                      |                            | 22.81         | 1500 | 207.22                                        | 957.83                            |
|            |                     |                            |                             | 173.90                     |               |      |                                               |                                   |
| 3          | 562                 | 113.93                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 168.29                      |                            |               |      |                                               |                                   |
|            |                     |                            | 168.22                      |                            |               |      |                                               |                                   |
|            |                     |                            | 168.24                      |                            | 21.54         | 1505 | 206.75                                        | 958.30                            |
|            |                     |                            |                             | 113.92                     |               |      |                                               |                                   |
| 2          | 392                 | 40.11                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 93.57                       |                            |               |      |                                               |                                   |
|            |                     |                            | 93.54                       |                            |               |      |                                               |                                   |
|            |                     |                            | 93.57                       |                            | 19.62         | 1508 | 209.05                                        | 956.00                            |
|            |                     |                            |                             | 40.09                      |               |      |                                               |                                   |
| 1          | 230                 | 14.47                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 15.31                       |                            |               |      |                                               |                                   |
|            |                     |                            | 15.28                       |                            |               |      |                                               |                                   |
|            |                     |                            | 15.36                       |                            | 18.07         | 1511 | 227.56                                        | 937.49                            |
|            |                     |                            |                             | 14.46                      |               |      |                                               |                                   |

# SOTA Environmental Technology, Inc.

## Piezometric Pressures/Levels

### Field Data Sheet for Multi-Port Monitoring Wells

Project Name: JPL Pasadena

Well ID: MW-21

Project No: 00HW019

Probe Type: Westbay

Date: 1/31/01

Serial No.: 1058

Personnel: PRJ/JNT

Datum: TOC

Casing Size/Type: 1.5"

Westbay

Elevation of Datum (ft. +MSL): 1059.10

Weather: Sunny

| Ambient Readings | Start | Finish |
|------------------|-------|--------|
| Time             | 1554  | 1607   |
| Pressure (psia)  | 14.35 | 14.39  |
| Temperature (°C) | 16.76 | 19.13  |

| Screen No. | Depth<br>(ft. BTOC) | Fluid Pressure Readings    |                             |                            | Temp.<br>(°C) | Time | Piezometric<br>Level<br>Outside<br>Port (ft.) | Water Level<br>Elevation<br>(ft.) |
|------------|---------------------|----------------------------|-----------------------------|----------------------------|---------------|------|-----------------------------------------------|-----------------------------------|
|            |                     | Inside<br>Casing<br>(psia) | Outside<br>Casing<br>(psia) | Inside<br>Casing<br>(psia) |               |      |                                               |                                   |
| 5          | 372                 | 123.86                     |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 143.84                      |                            |               |      |                                               |                                   |
|            |                     |                            | 143.89                      |                            |               |      |                                               |                                   |
|            |                     |                            | 143.86                      |                            | 18.55         | 1558 | 73.21                                         | 985.89                            |
|            |                     |                            |                             | 123.87                     |               |      |                                               |                                   |
| 4          | 310                 | 96.93                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 117.03                      |                            |               |      |                                               |                                   |
|            |                     |                            | 117.00                      |                            |               |      |                                               |                                   |
|            |                     |                            | 117.02                      |                            | 19.76         | 1602 | 73.15                                         | 985.95                            |
|            |                     |                            |                             | 96.91                      |               |      |                                               |                                   |
| 3          | 241                 | 66.91                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 87.04                       |                            |               |      |                                               |                                   |
|            |                     |                            | 87.01                       |                            |               |      |                                               |                                   |
|            |                     |                            | 87.06                       |                            | 19.59         | 1604 | 73.31                                         | 985.79                            |
|            |                     |                            |                             | 66.91                      |               |      |                                               |                                   |
| 2          | 162                 | 32.61                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 52.66                       |                            |               |      |                                               |                                   |
|            |                     |                            | 52.64                       |                            |               |      |                                               |                                   |
|            |                     |                            | 52.69                       |                            | 19.33         | 1605 | 73.61                                         | 985.49                            |
|            |                     |                            |                             | 32.63                      |               |      |                                               |                                   |
| 1          | 90                  | 14.39                      |                             |                            |               |      |                                               |                                   |
|            |                     |                            | 20.90                       |                            |               |      |                                               |                                   |
|            |                     |                            | 20.96                       |                            |               |      |                                               |                                   |
|            |                     |                            | 20.93                       |                            | 19.14         | 1606 | 74.82                                         | 984.28                            |
|            |                     |                            |                             | 14.38                      |               |      |                                               |                                   |