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DRAFT

GROUNDWATER SUMMARY REPORT TO EVALUATE EFFECTIVENESS OF SOURCE REDUCTION AND NATURAL ATTENUATION REMEDIAL MEASURES

July 1999

VOLUME II – TIME SERIES PLOTS

HSI GEOTRANS
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Sterling, Virginia 20166

DRAFT

GROUNDWATER SUMMARY REPORT TO EVALUATE EFFECTIVENESS OF SOURCE REDUCTION AND NATURAL ATTENUATION REMEDIAL MEASURES

July 1999

VOLUME II – TIME SERIES PLOTS

Submitted by:

Winnebago Reclamation Landfill
Winnebago County, Illinois
IEPA Permit Number 1991-138-LF, Modification No. 5
IEPA Site Number 2018080001

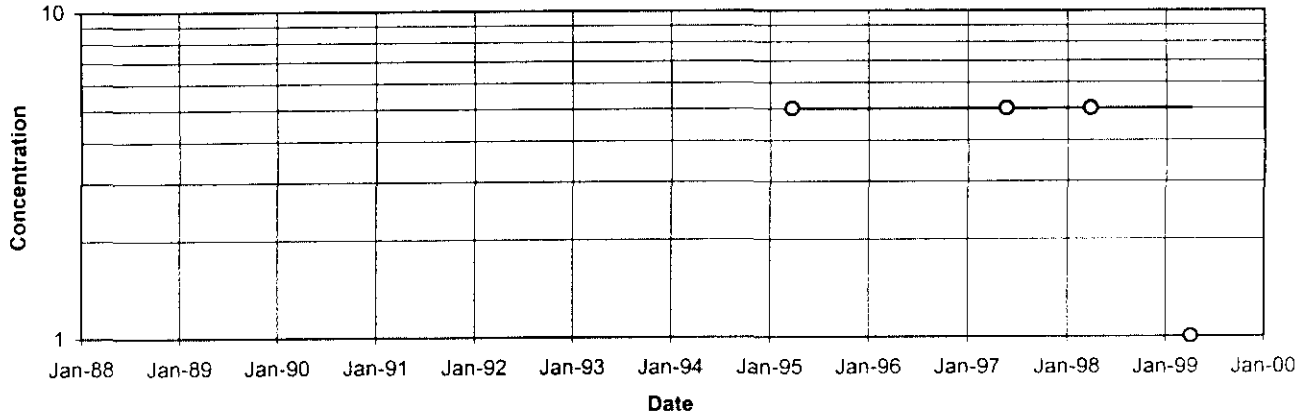
MONITORING WELLS

MONITORING WELLS

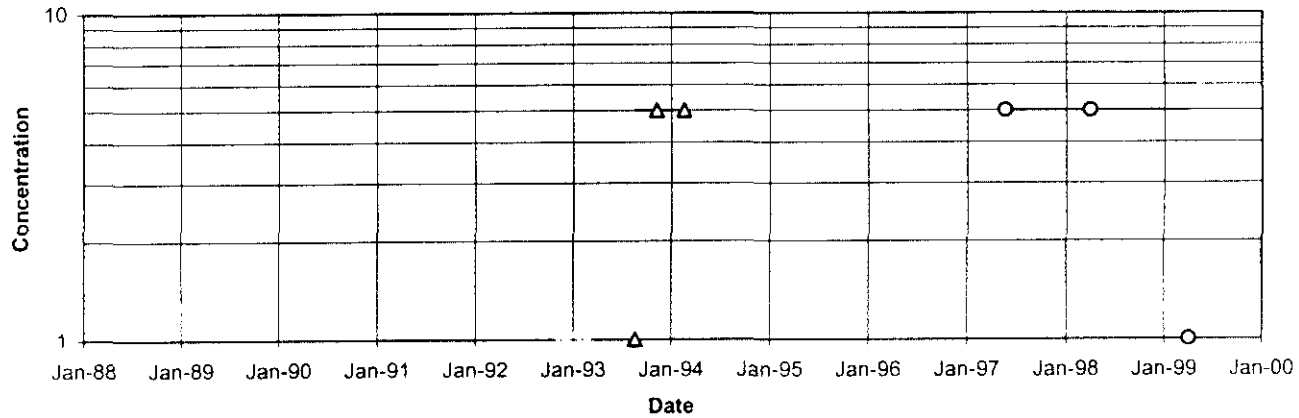
1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

B15R



G109



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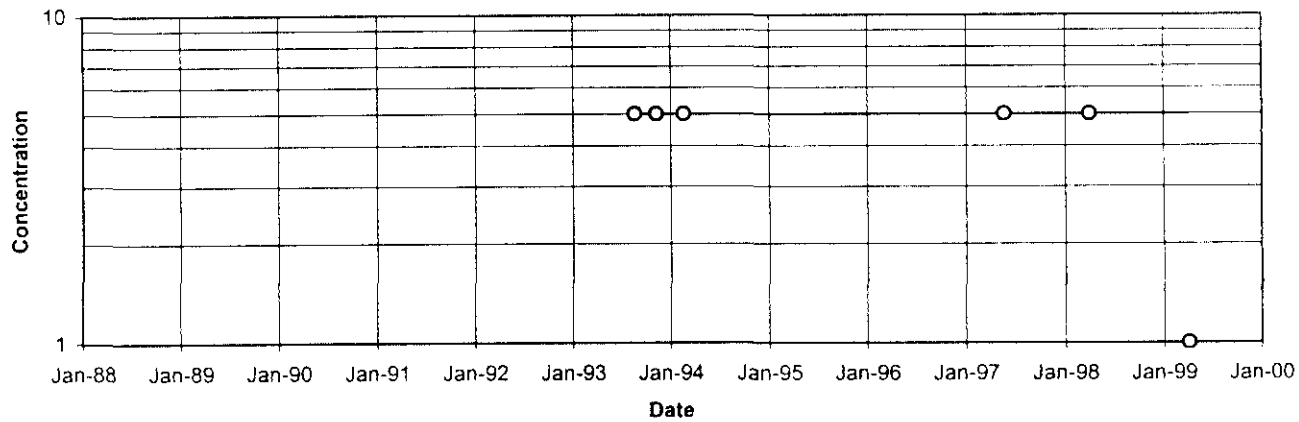
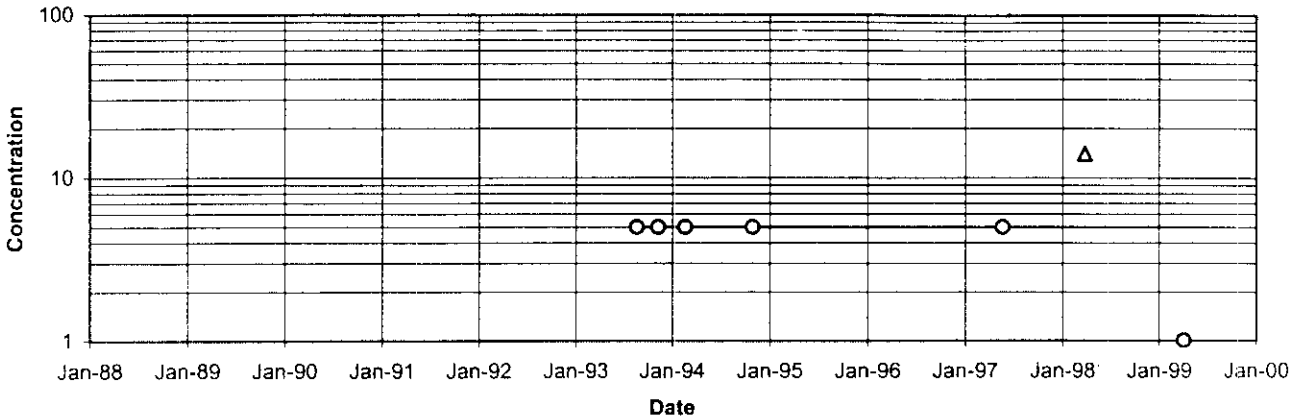


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

G113



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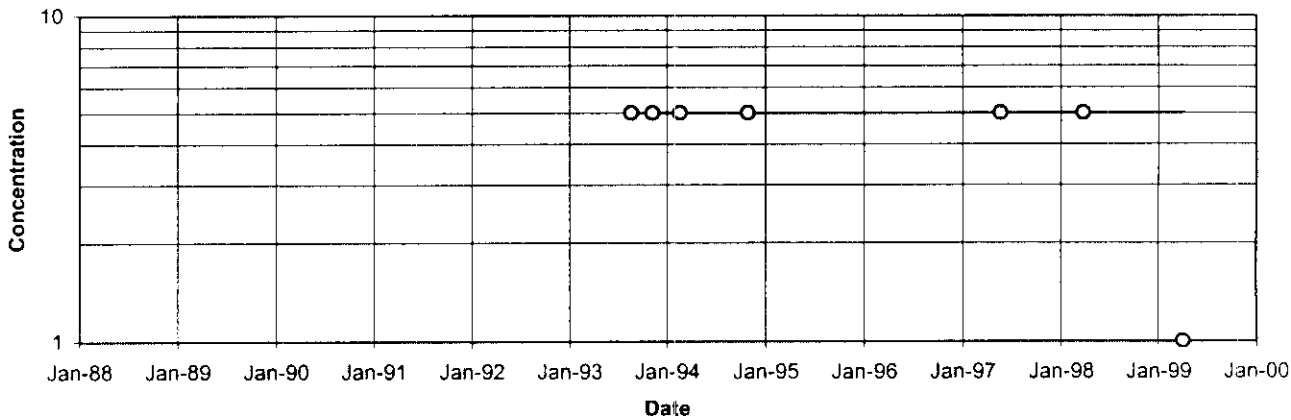

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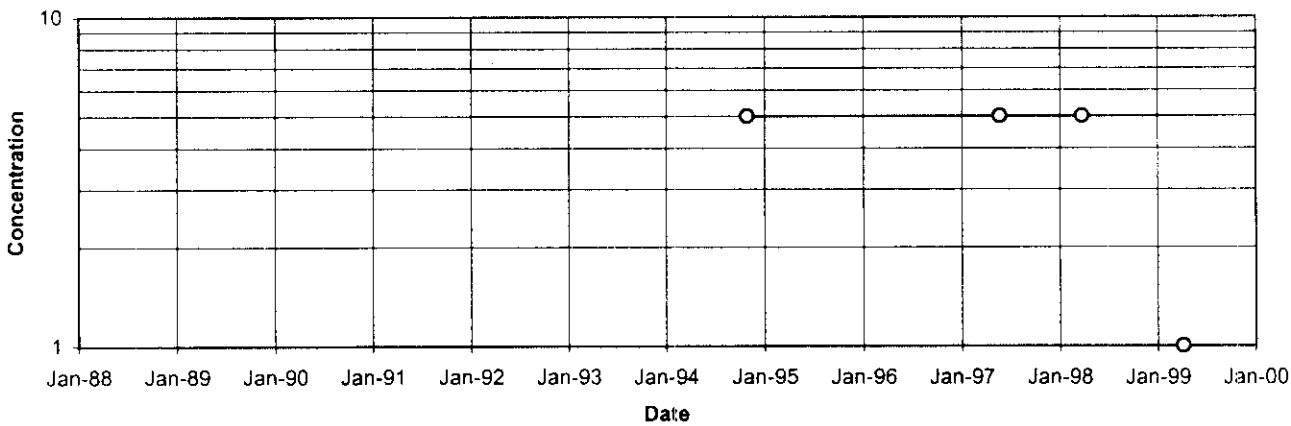
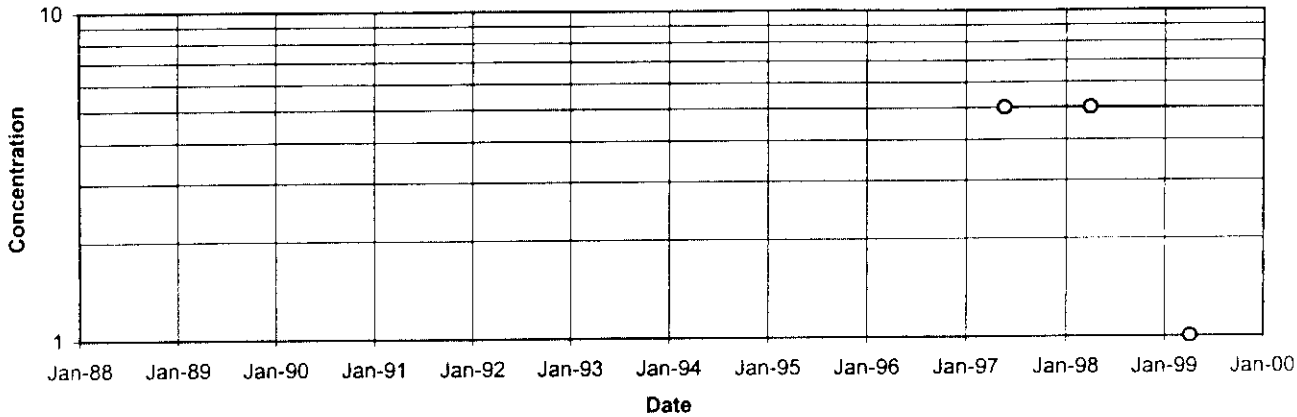


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G115



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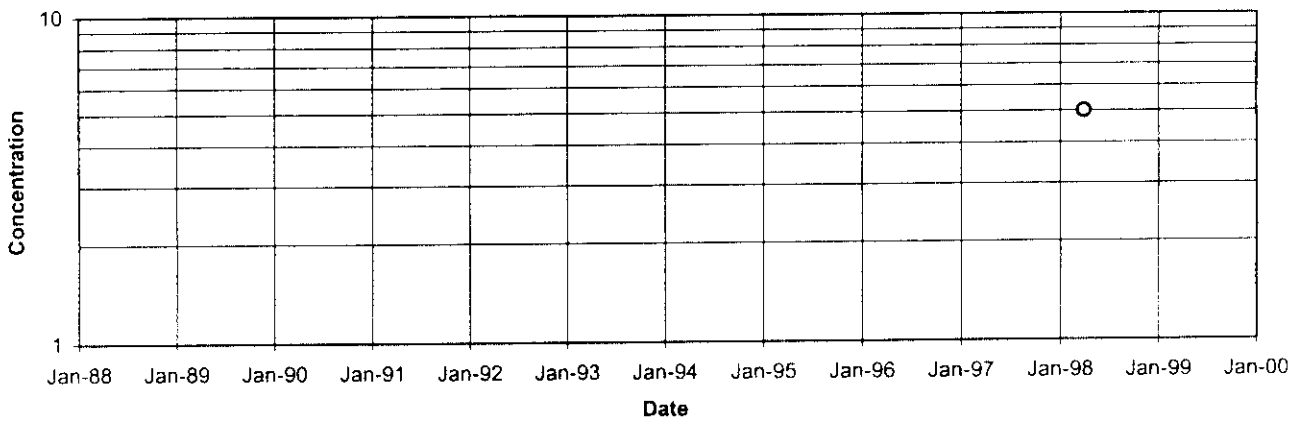

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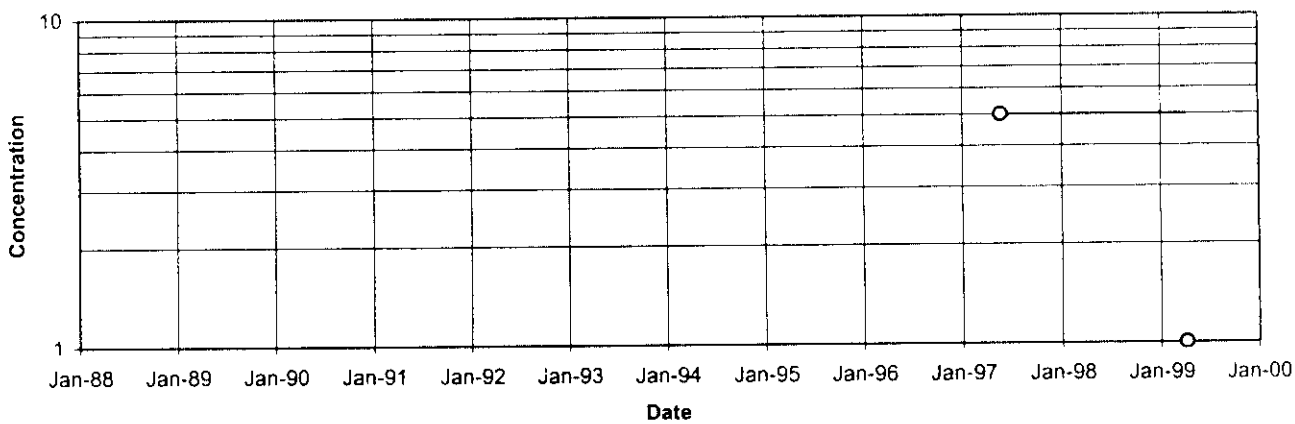
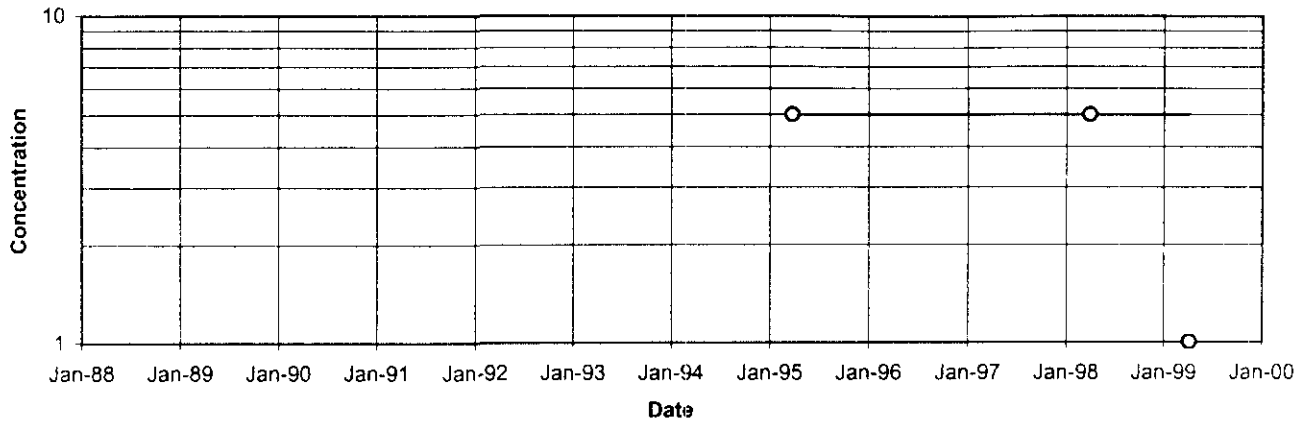


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G116D



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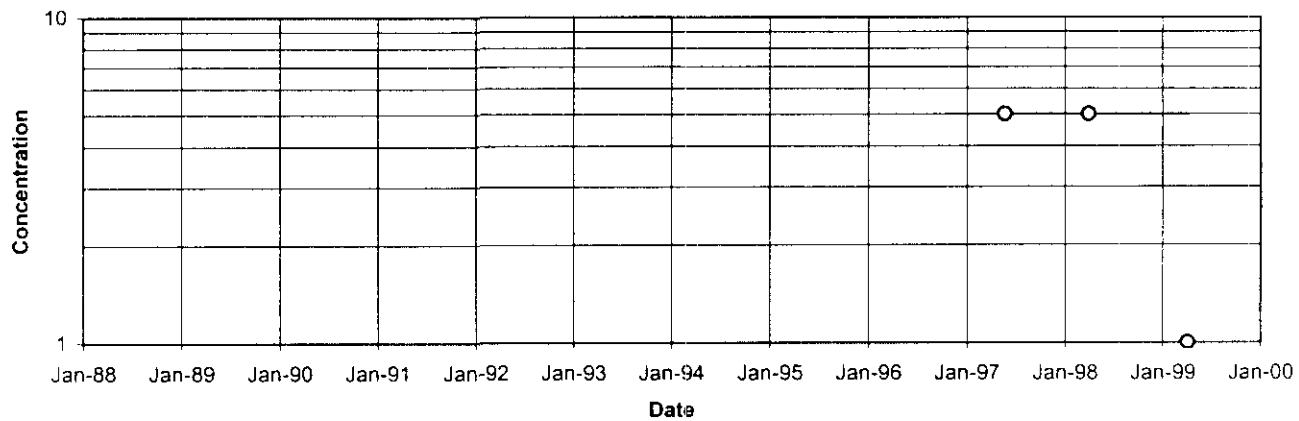

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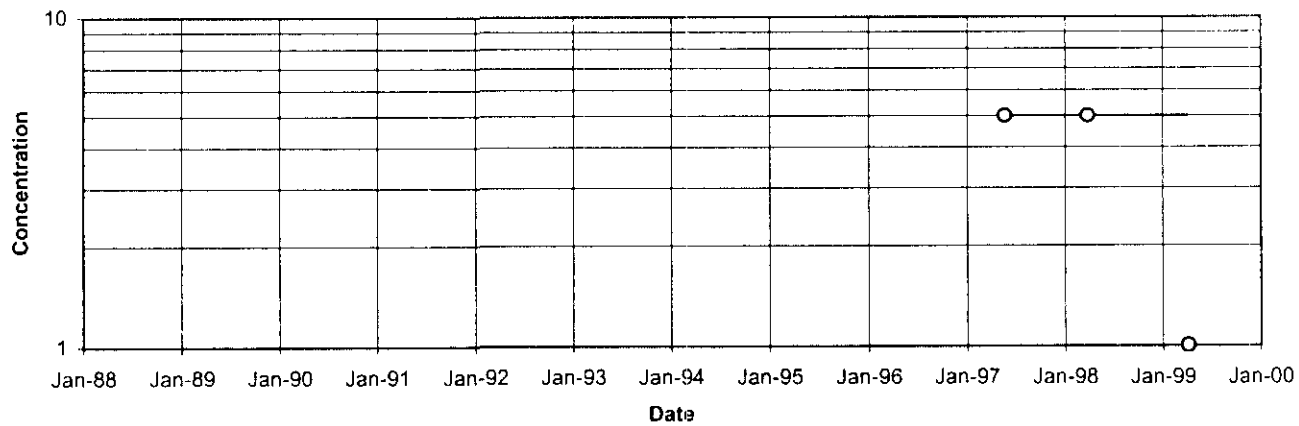
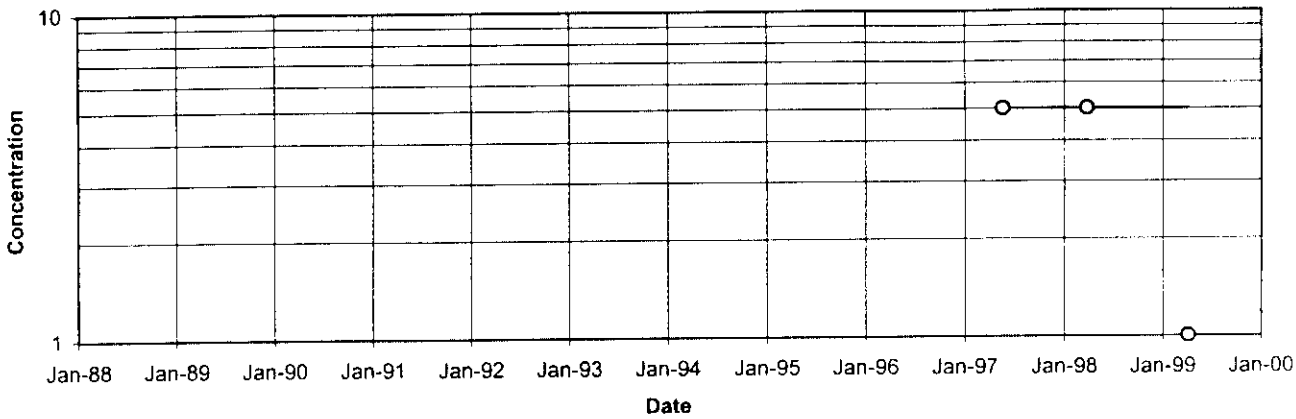


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G118R



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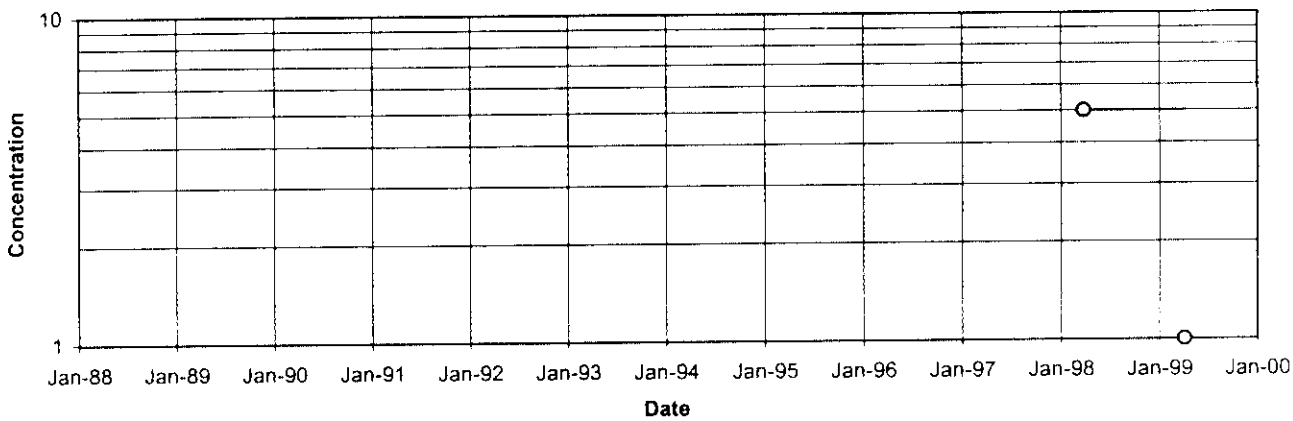

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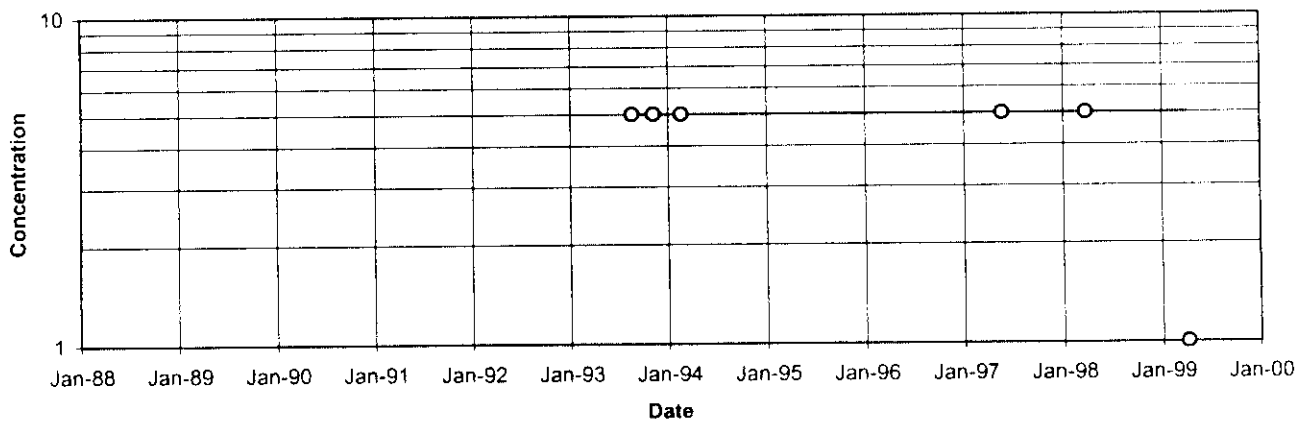
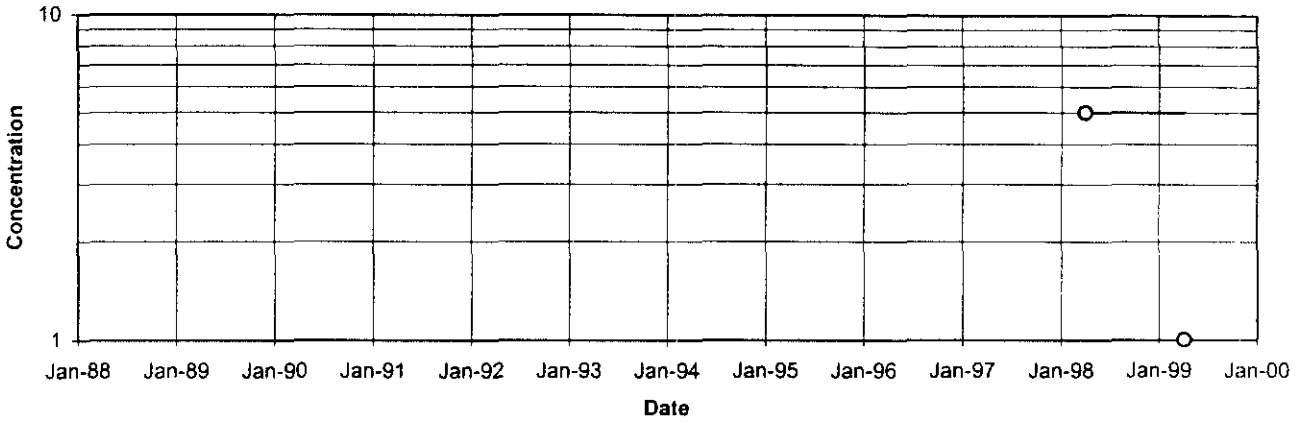


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G130



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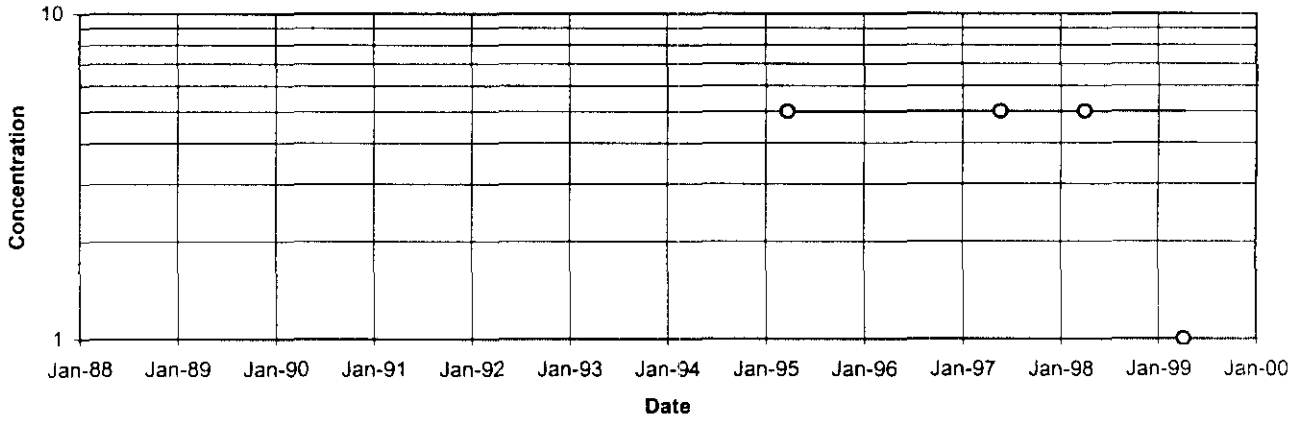

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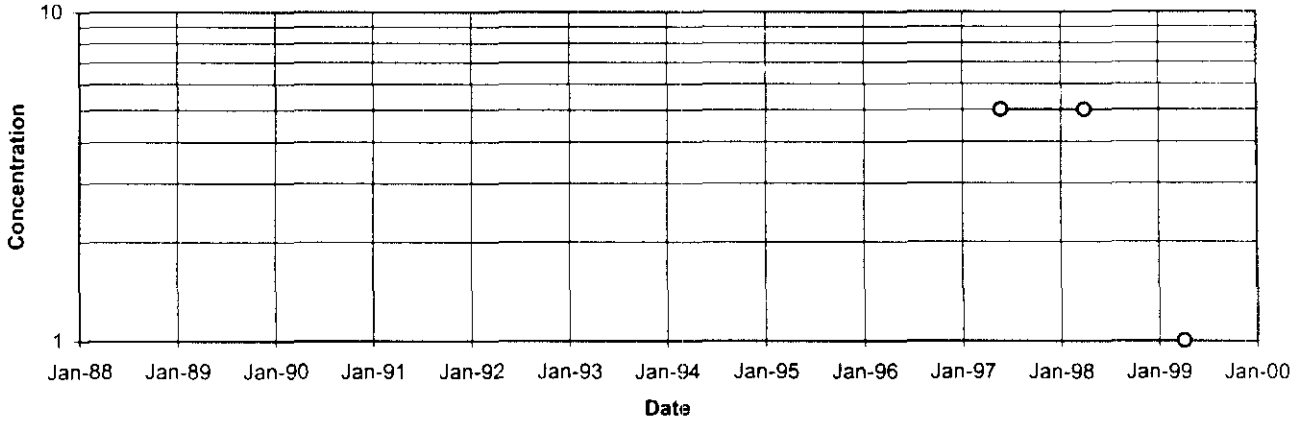
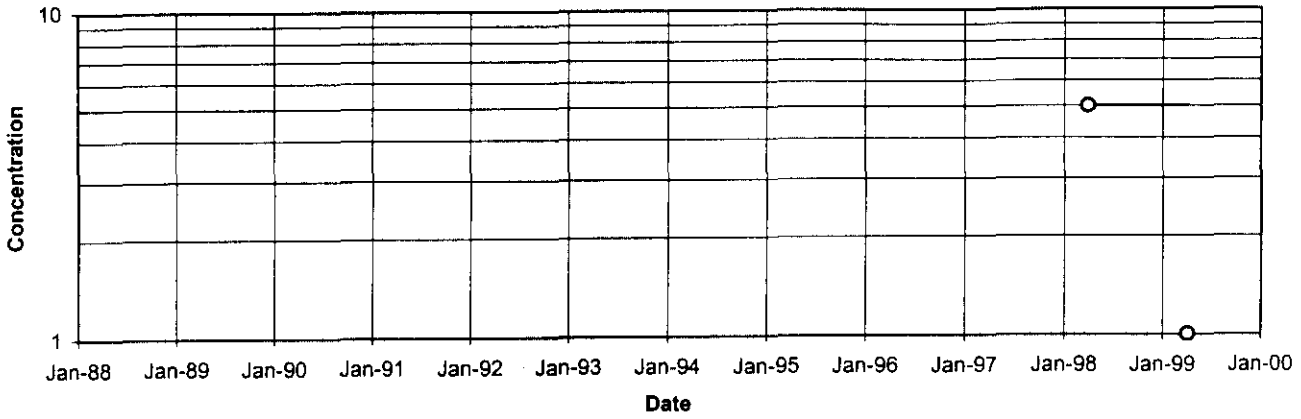


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G33S



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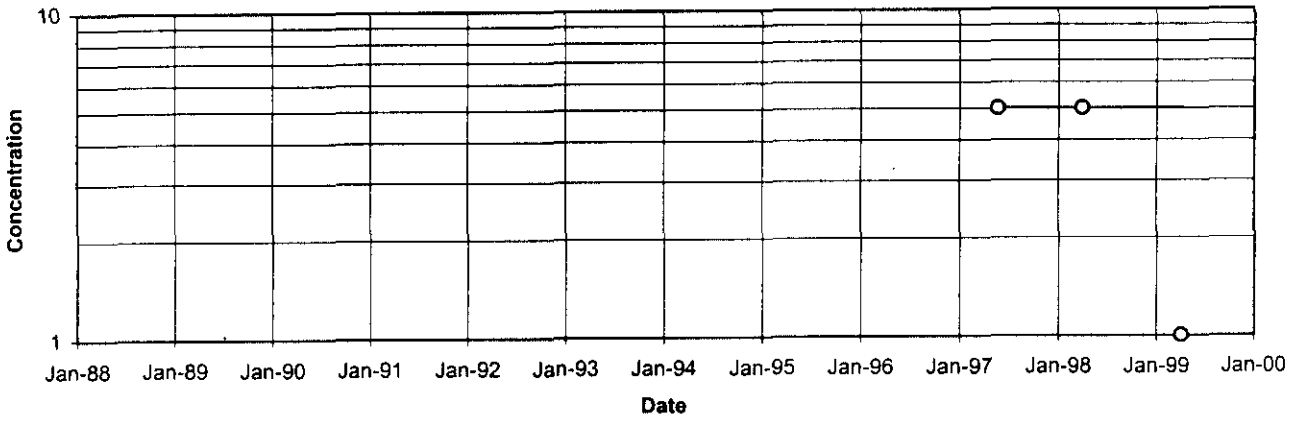

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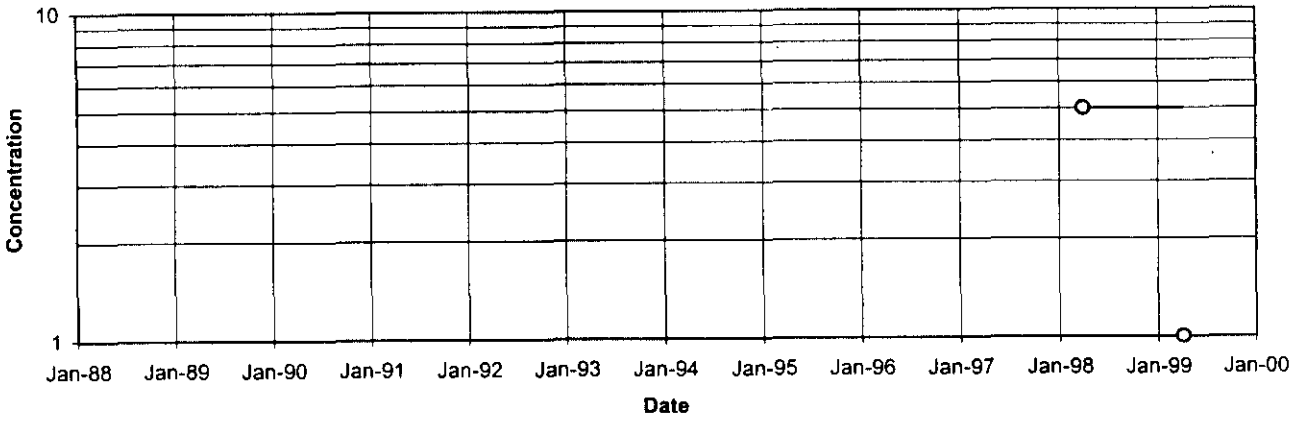
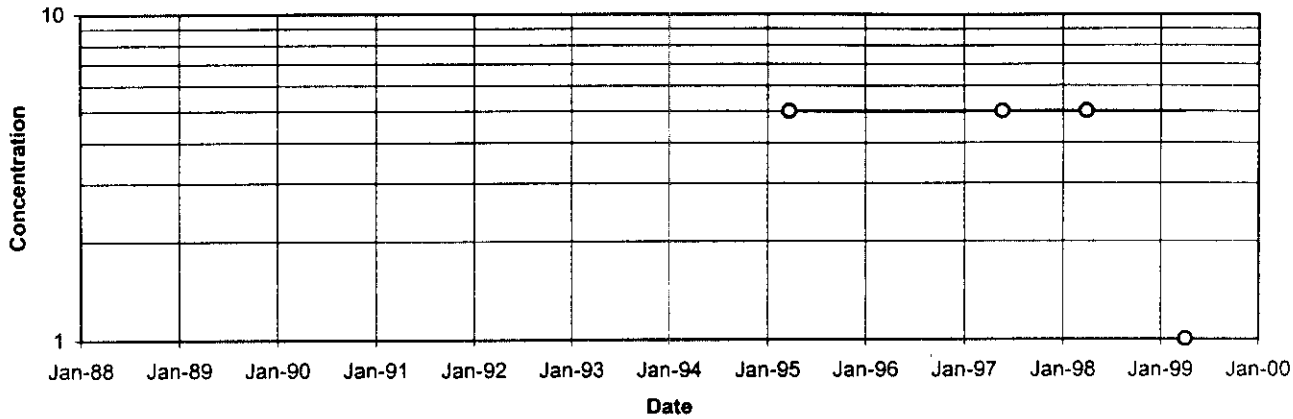


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

G35D



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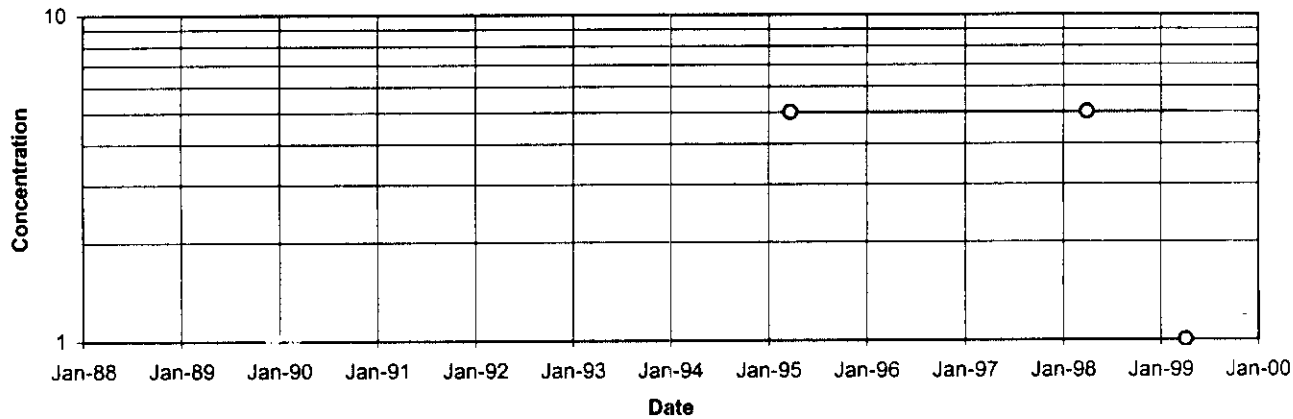

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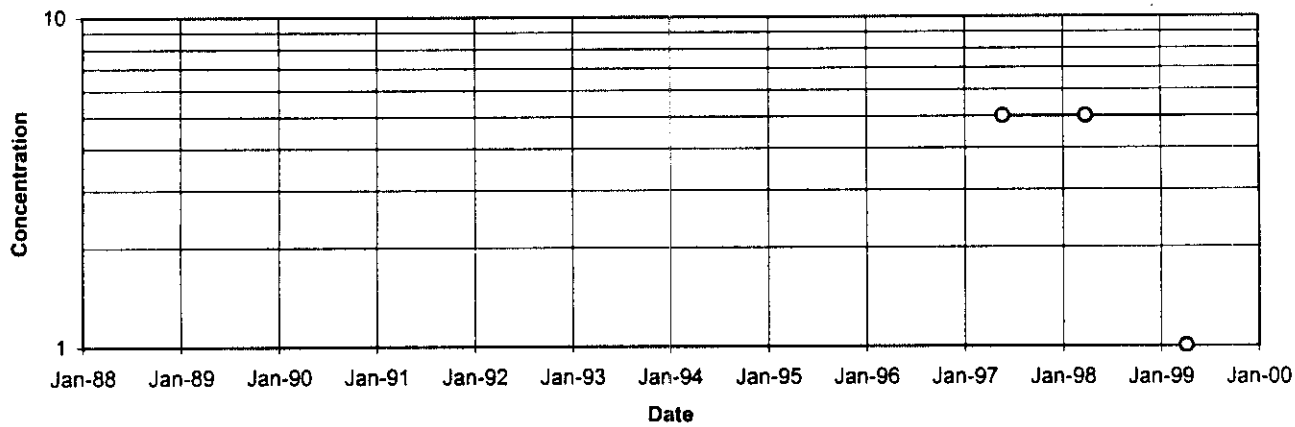
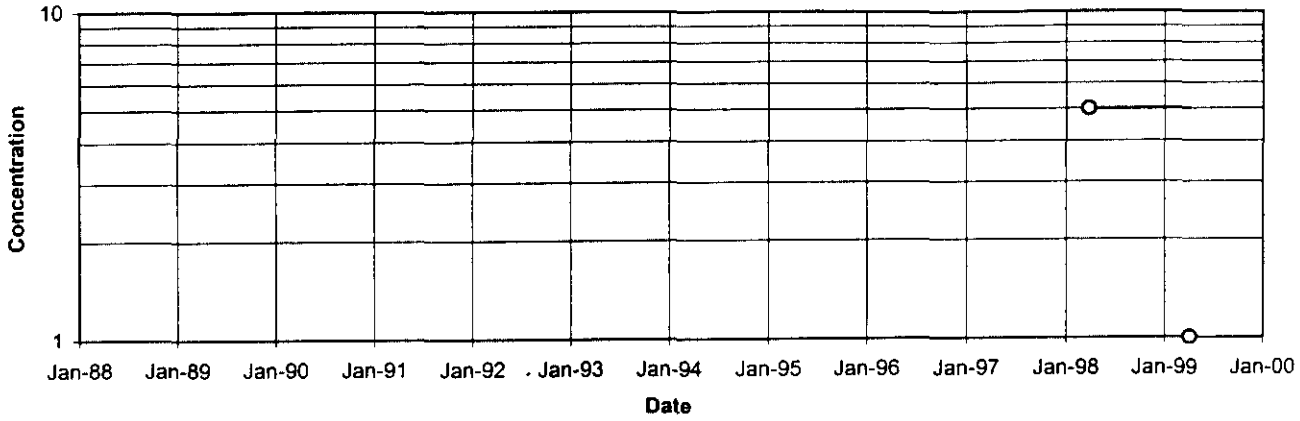


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

G37D



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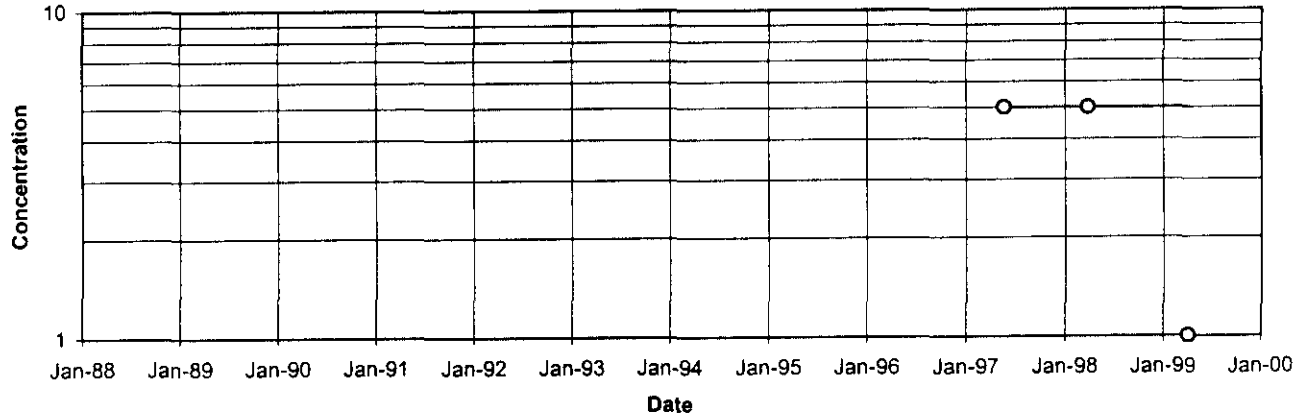

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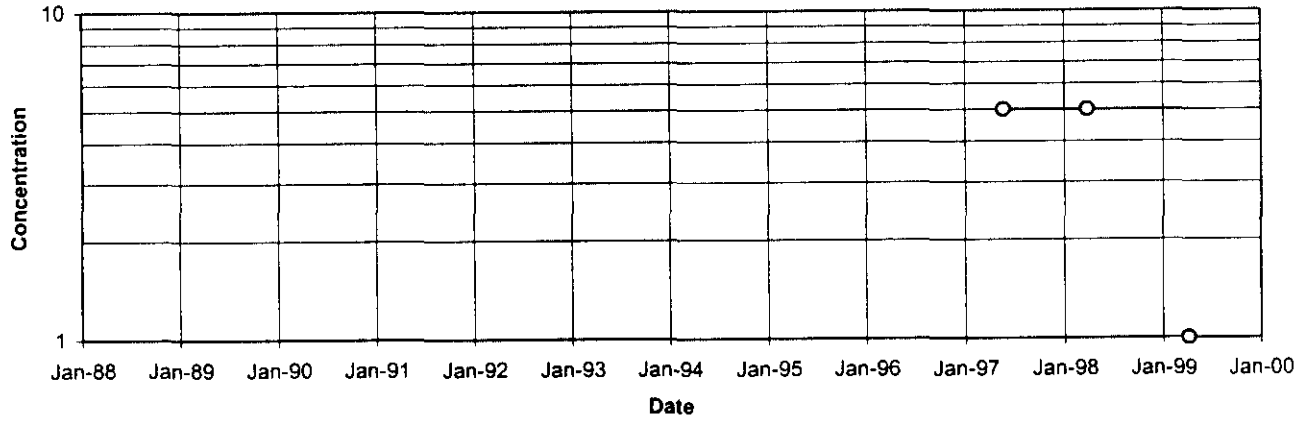
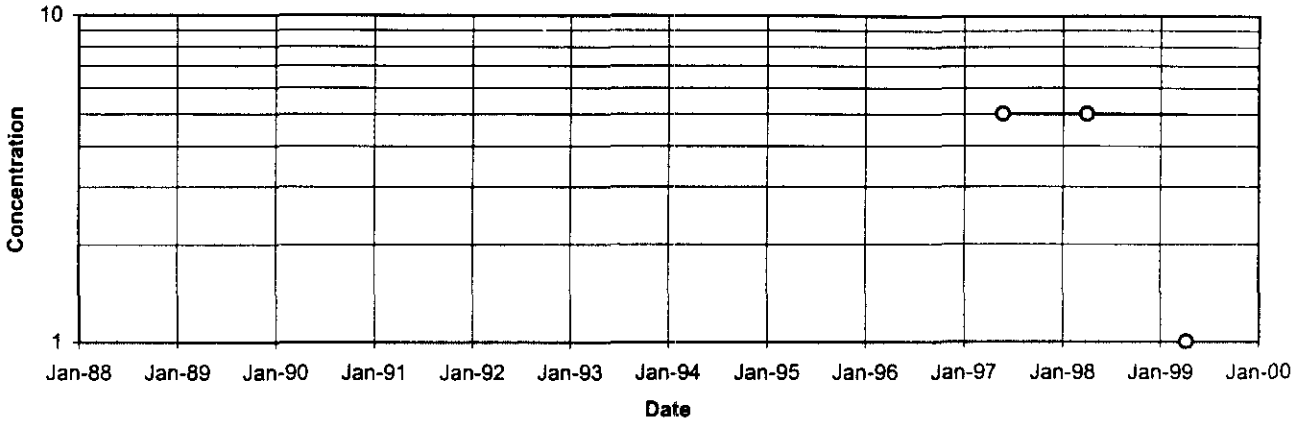


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G39



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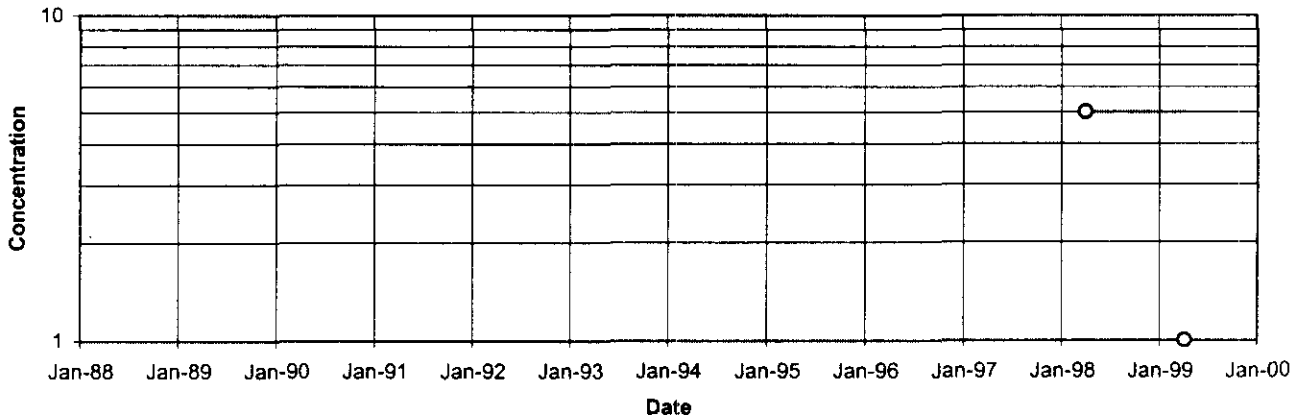

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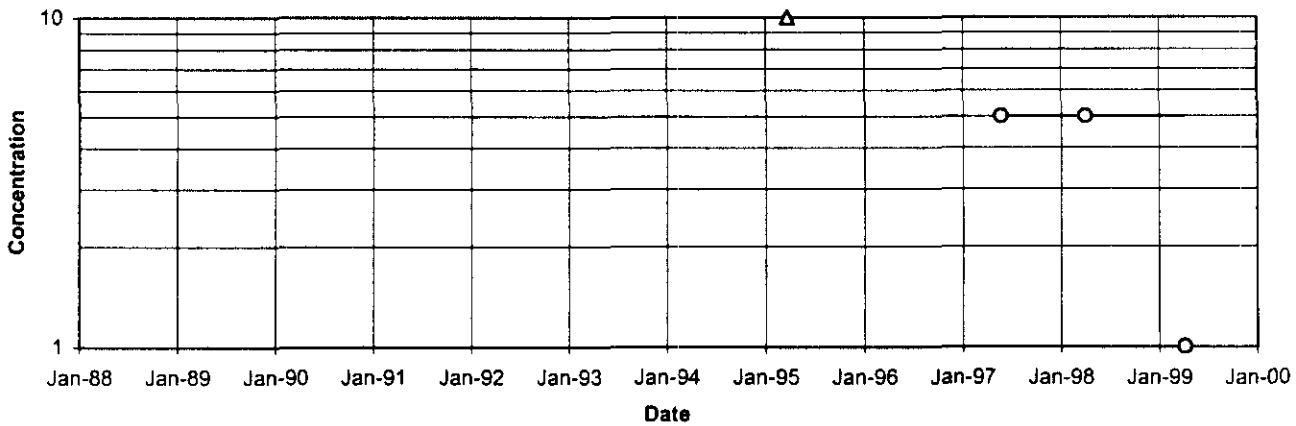
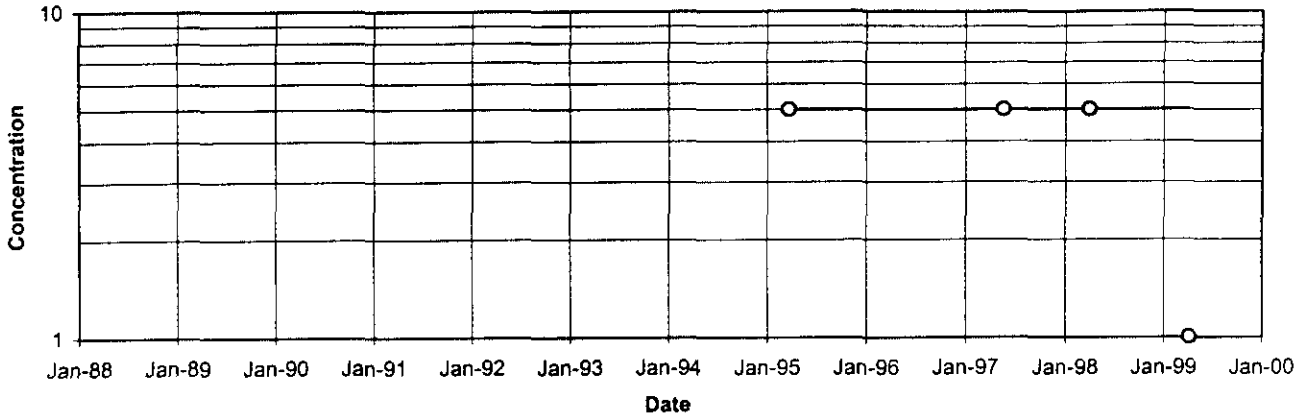


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

P1



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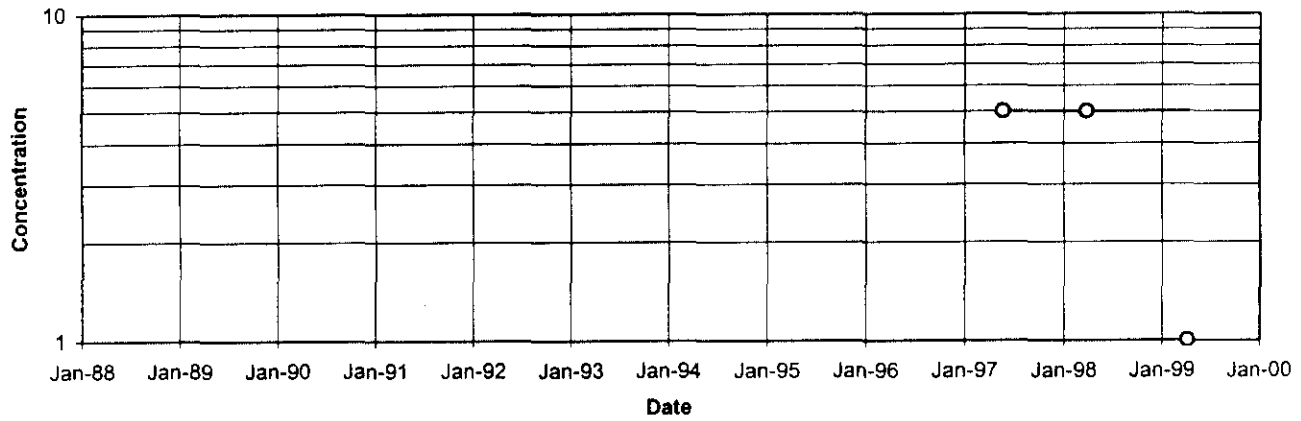

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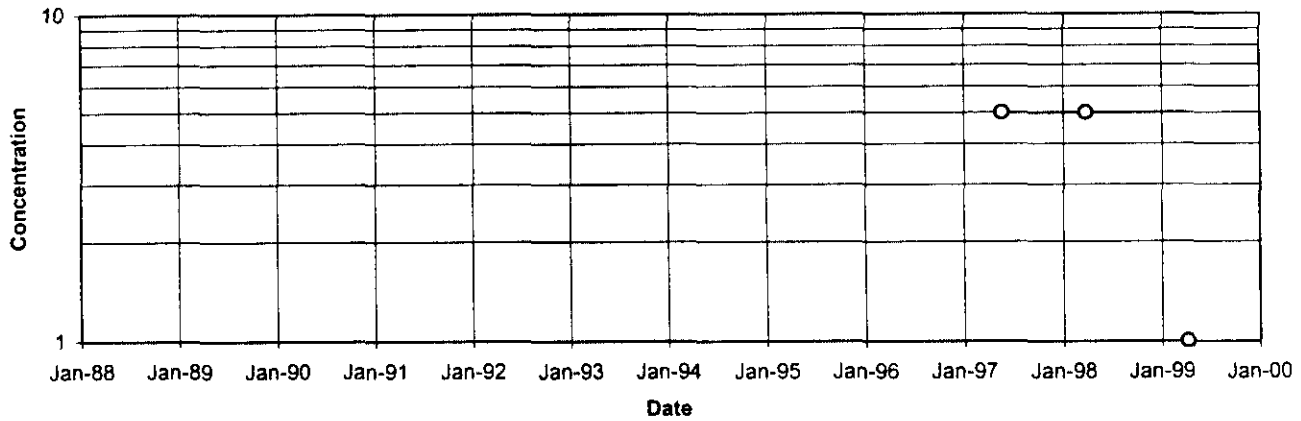
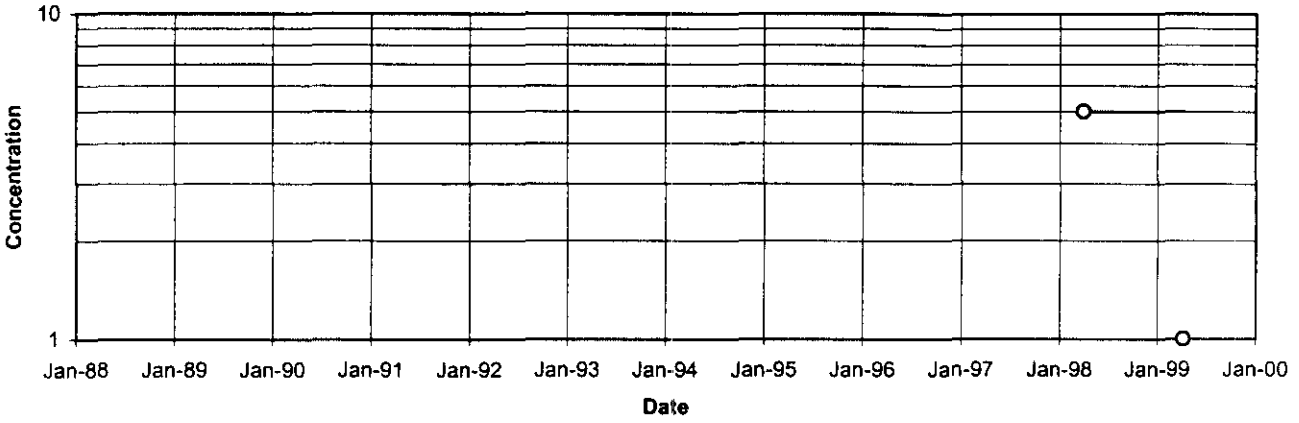


1,2,3-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

SG1



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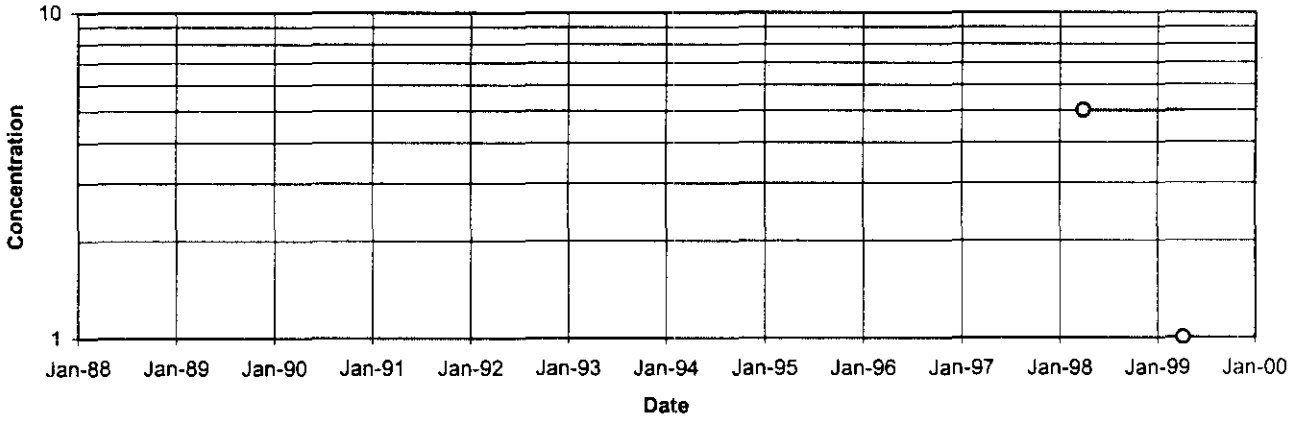

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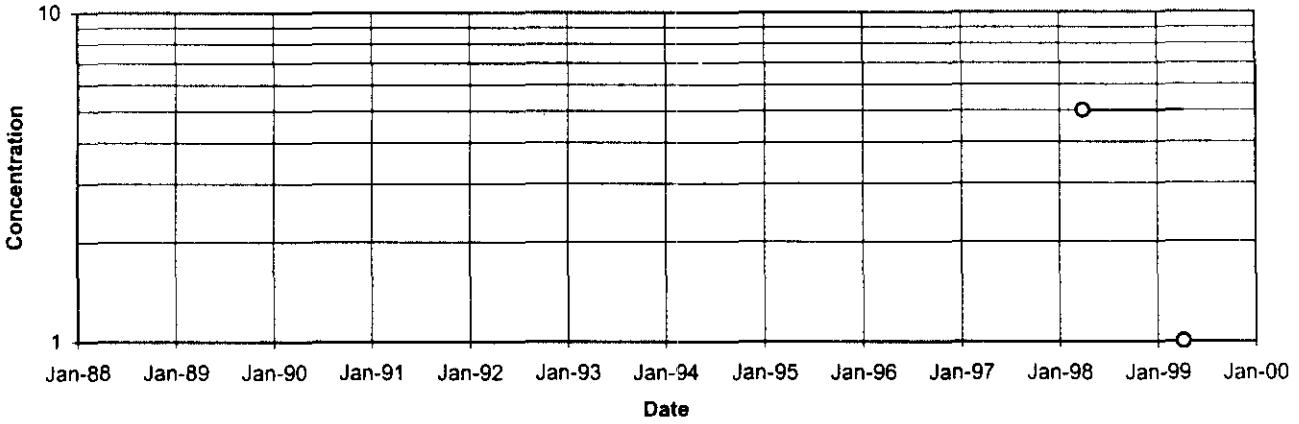
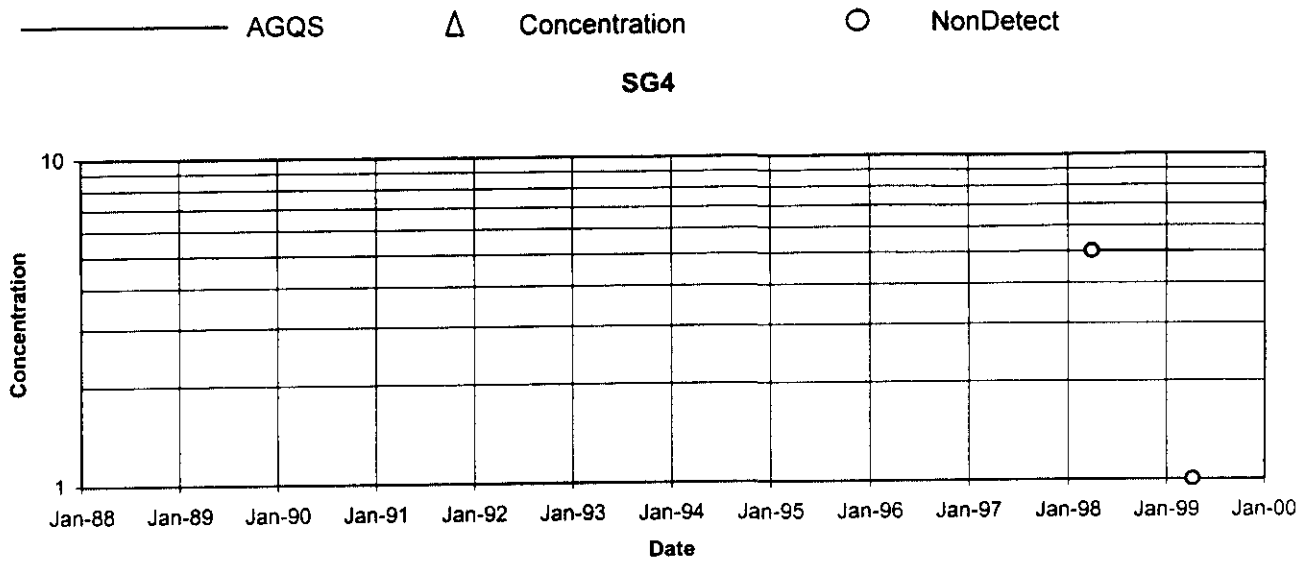


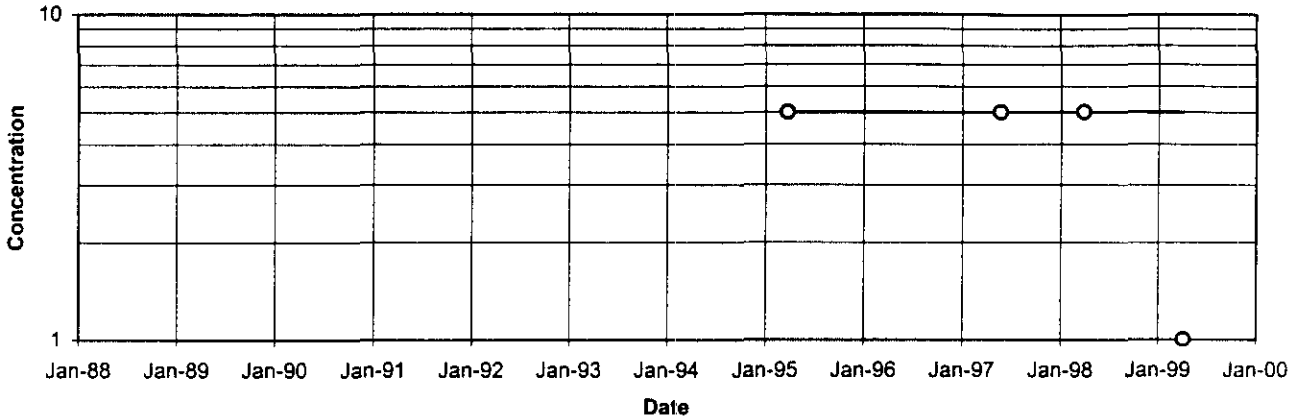
1,2,4-Trichlorobenzene (ug/L)



1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

B15R



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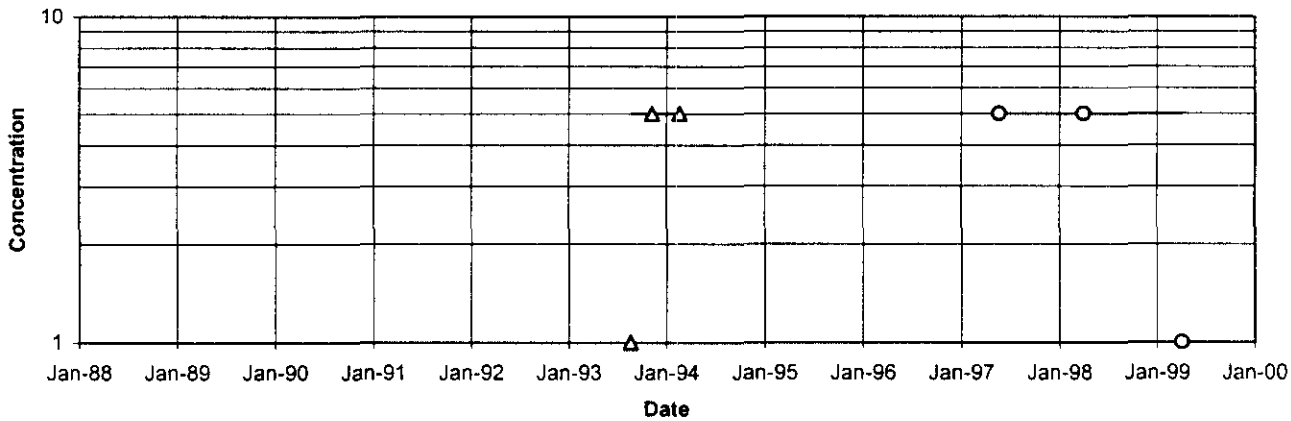

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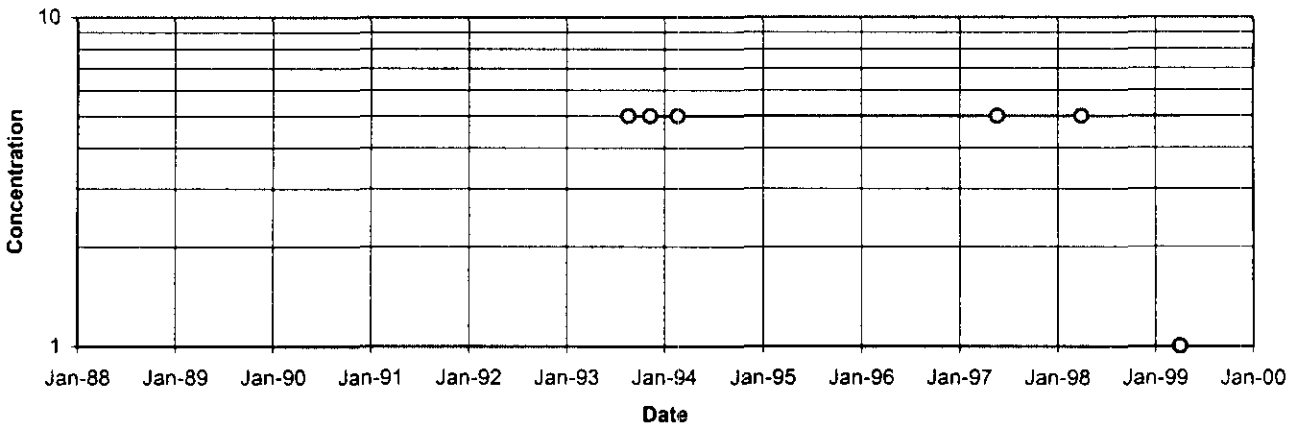
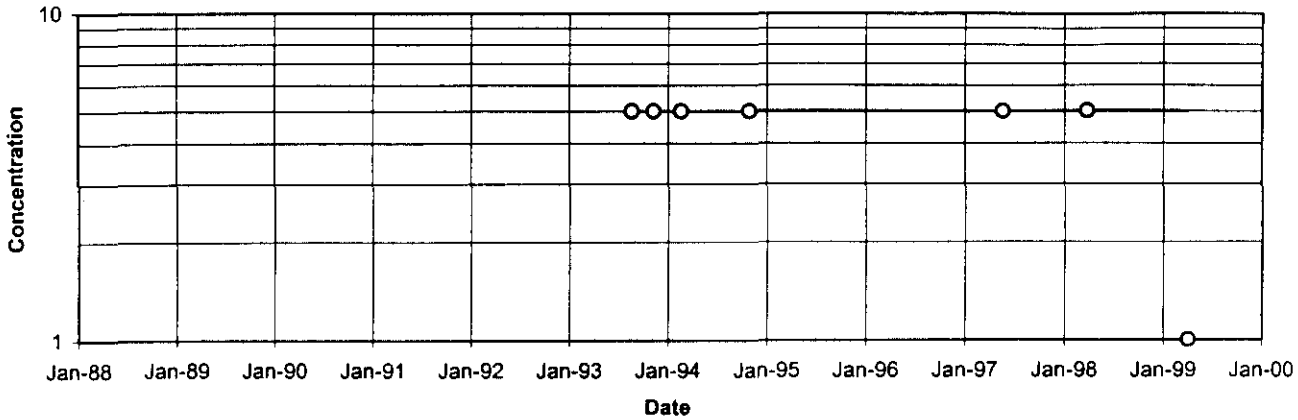


1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

G113



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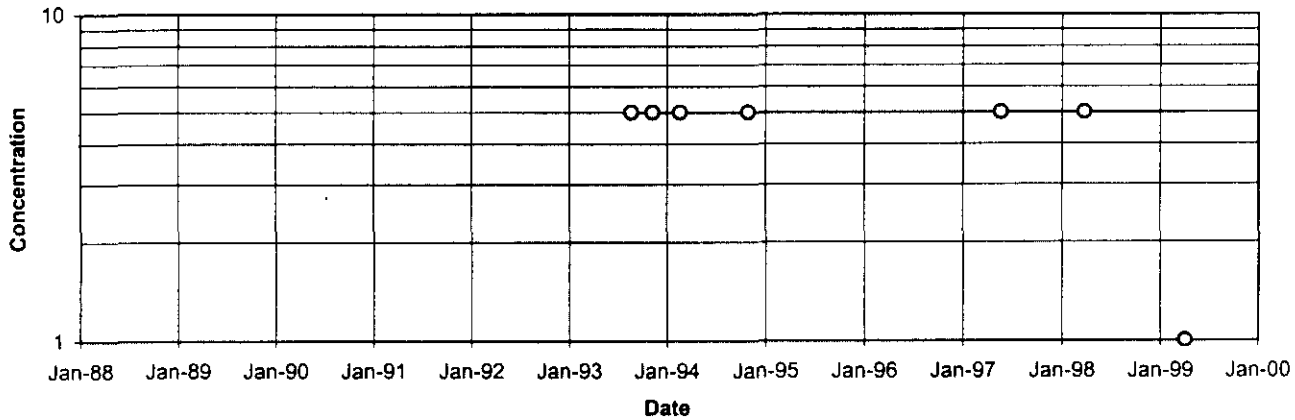

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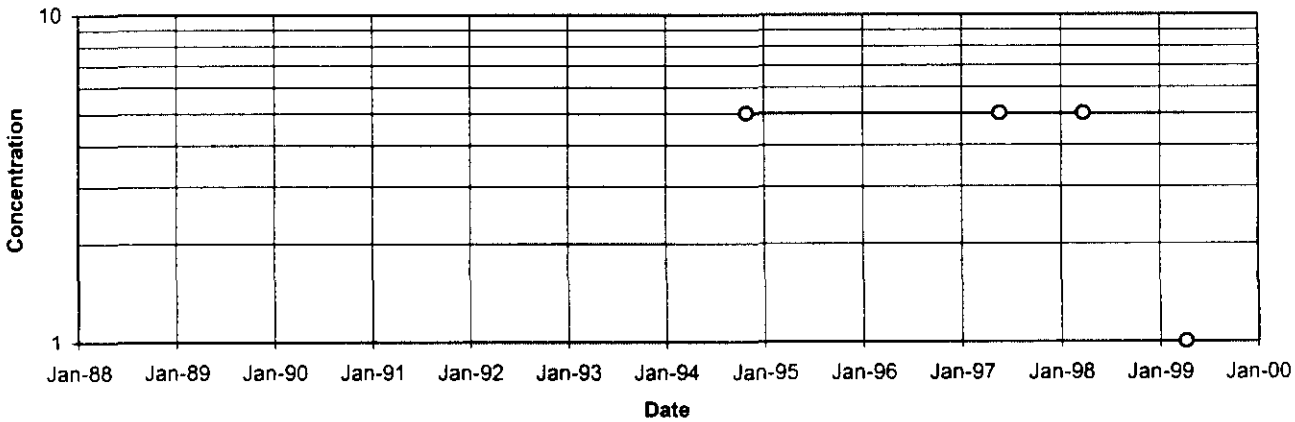
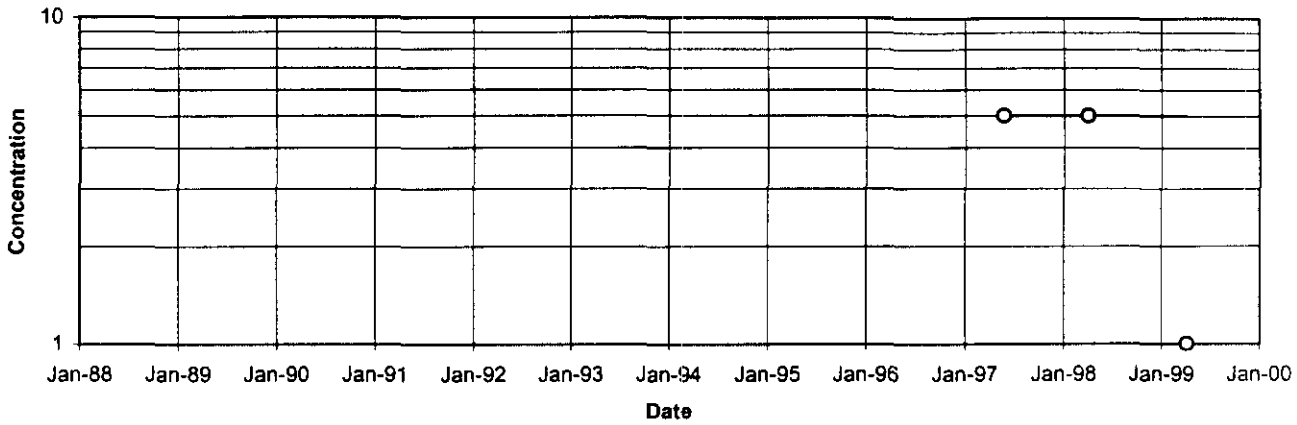


1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G115



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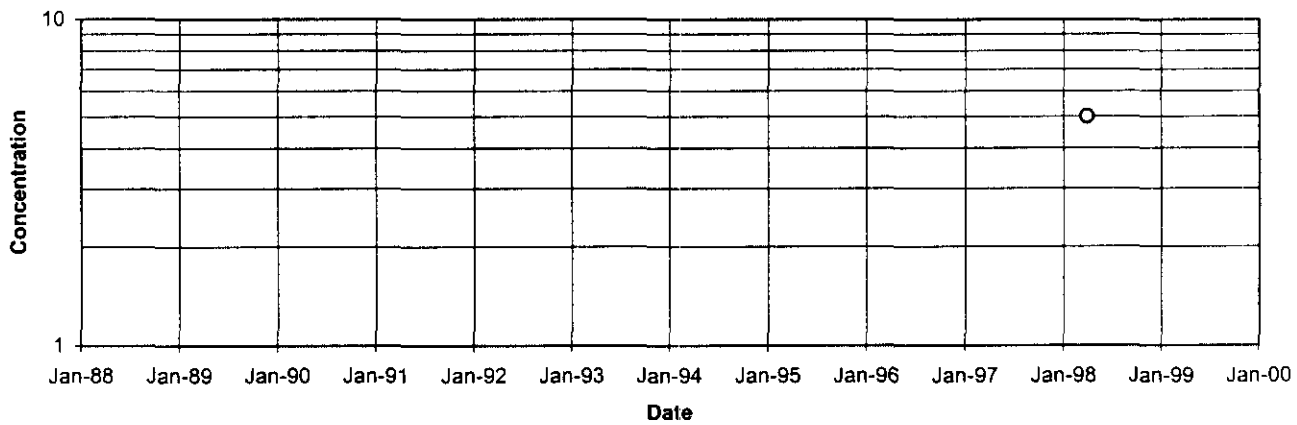

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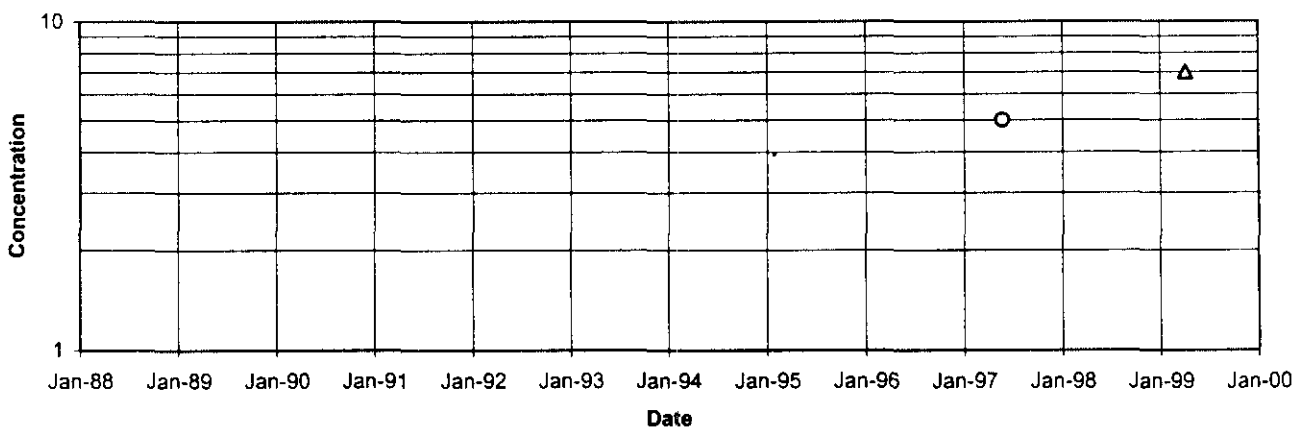
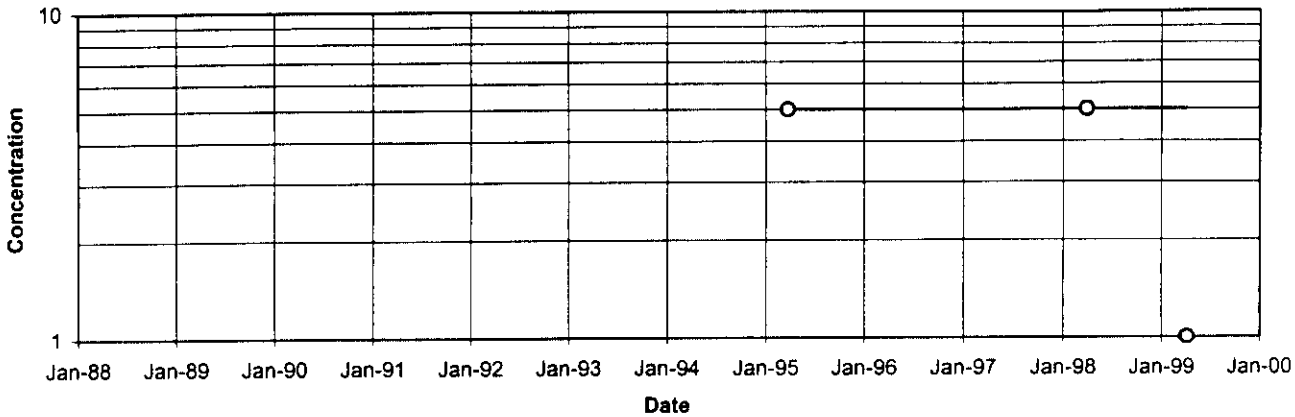


1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G116D



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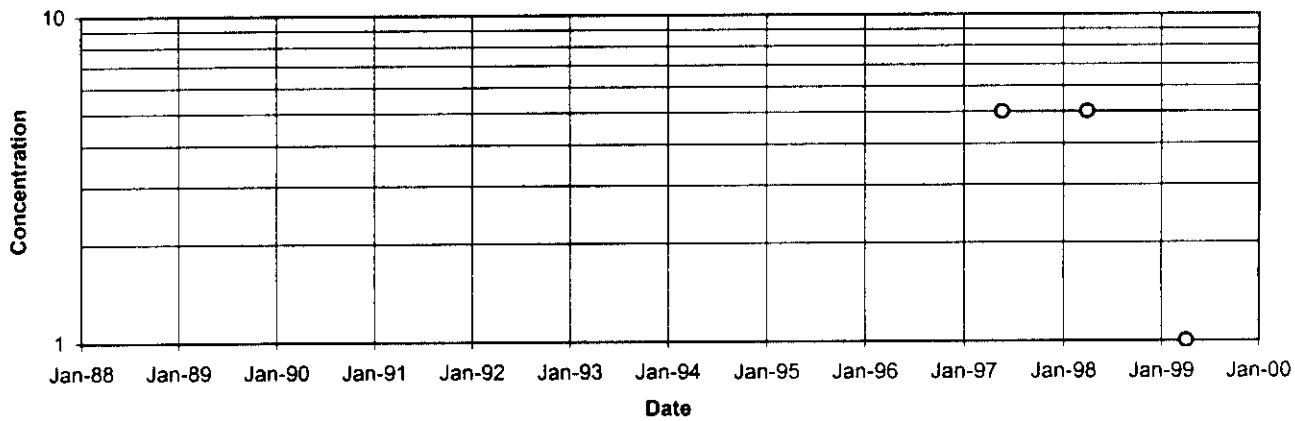

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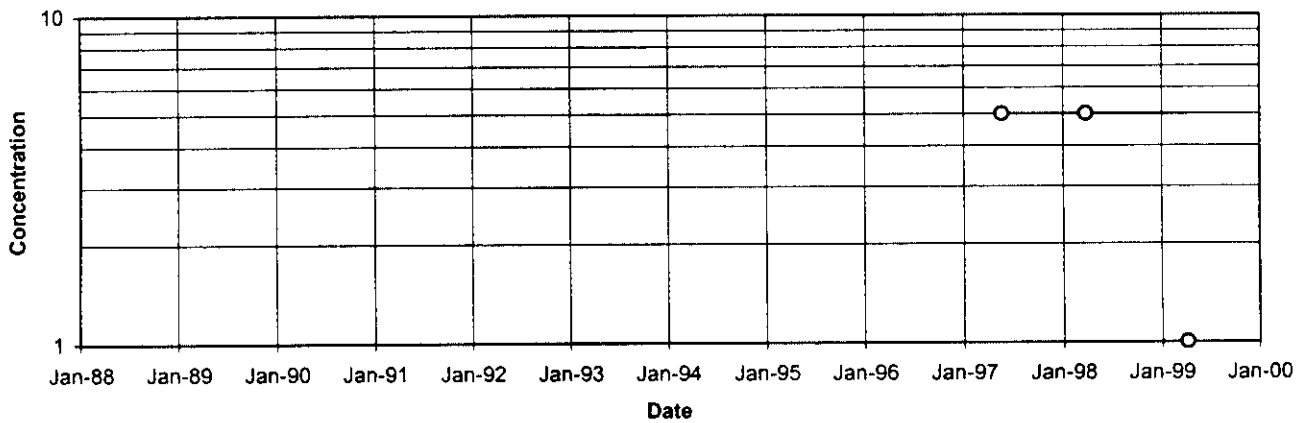
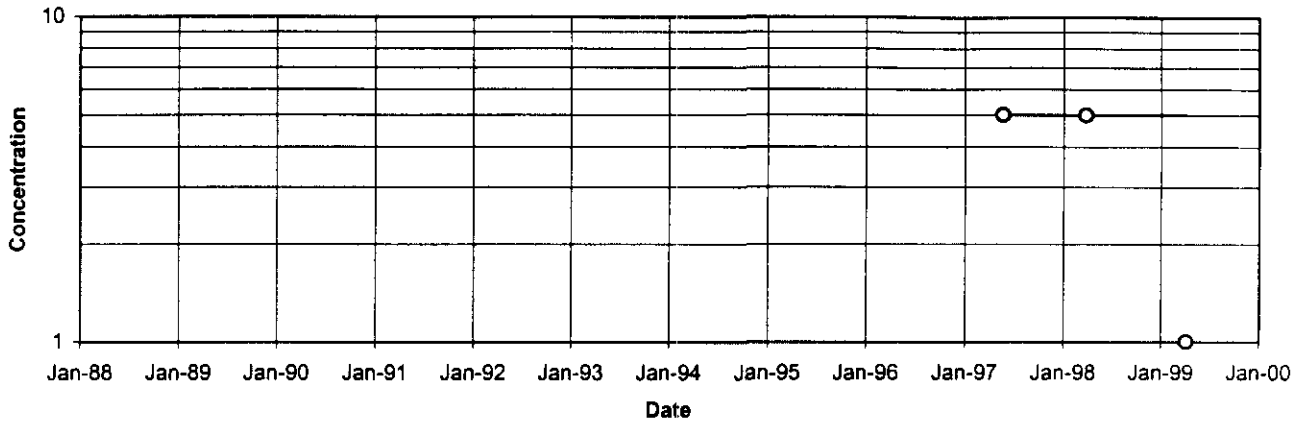


1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

G118R



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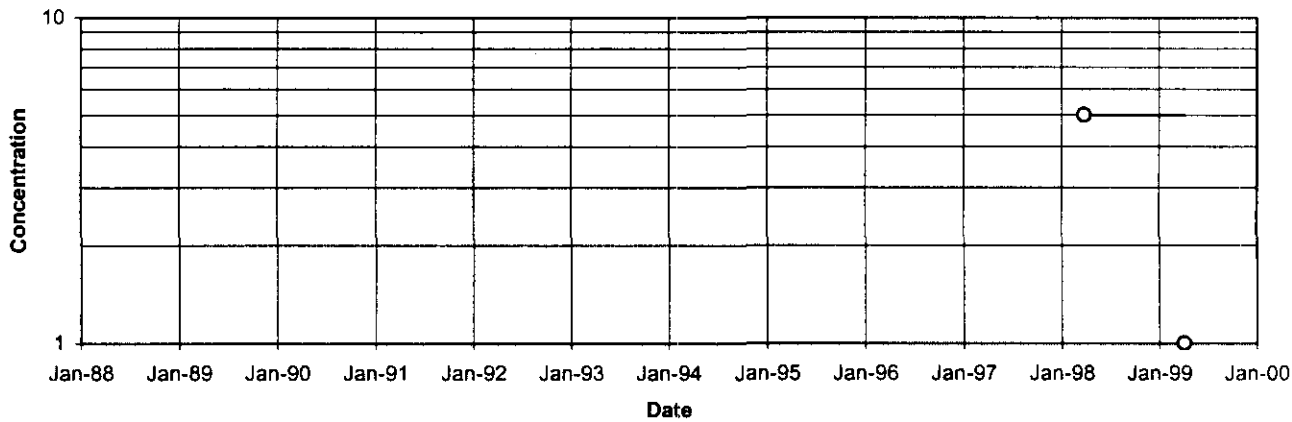
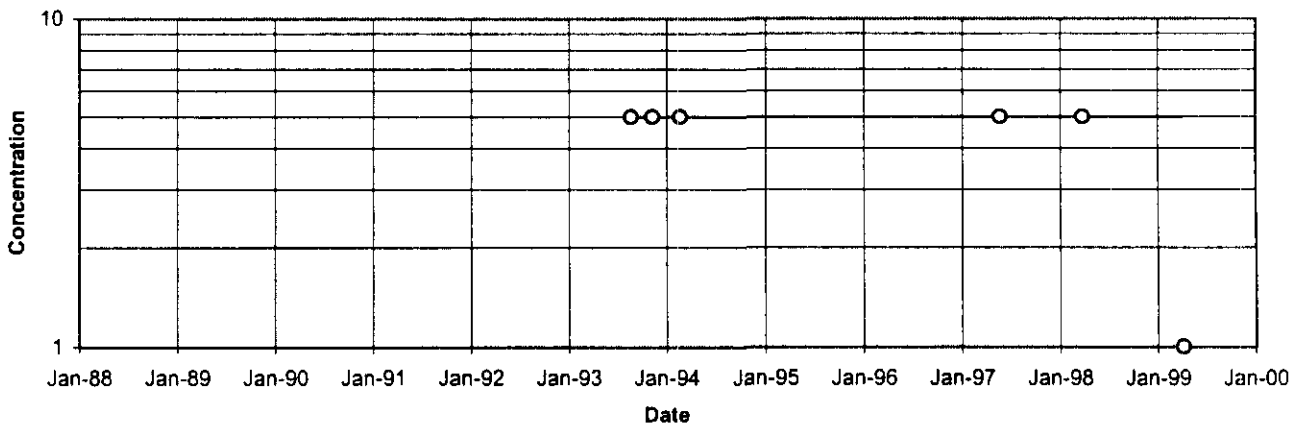


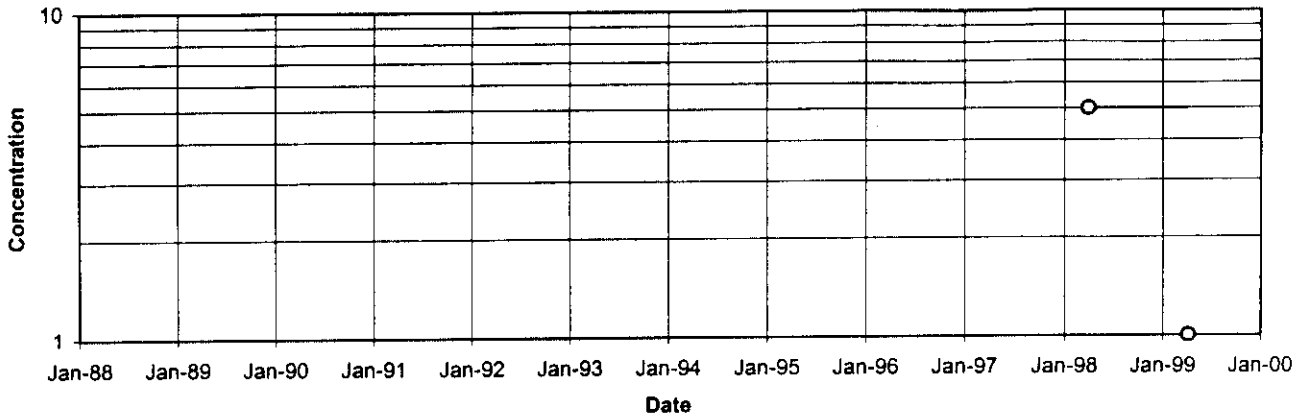
G120B



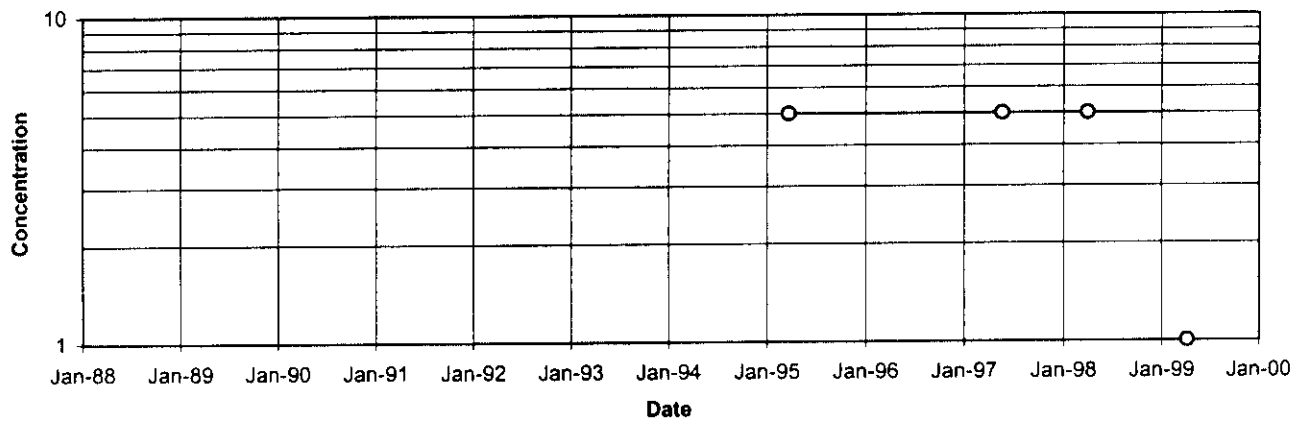
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

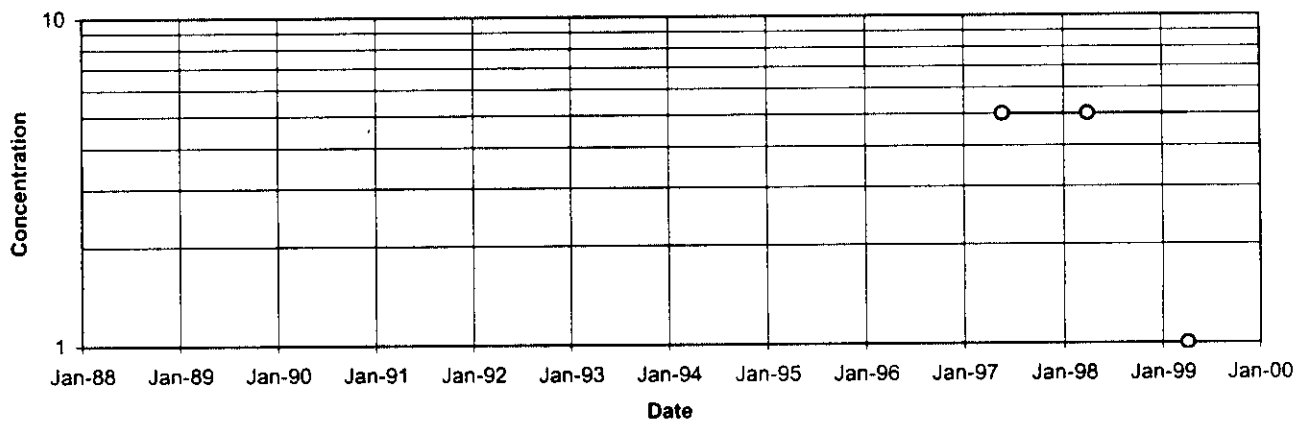
G130



G132



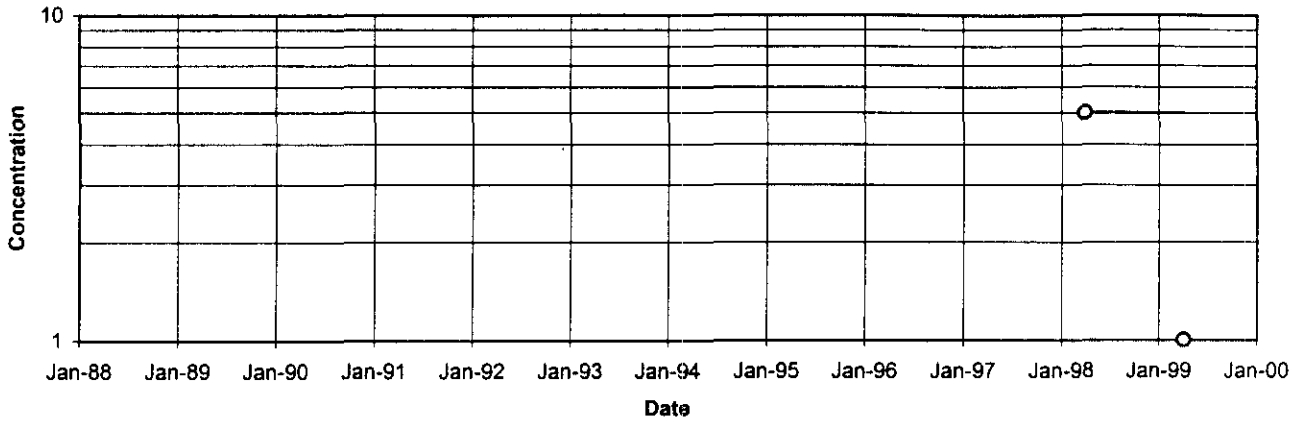
G33D



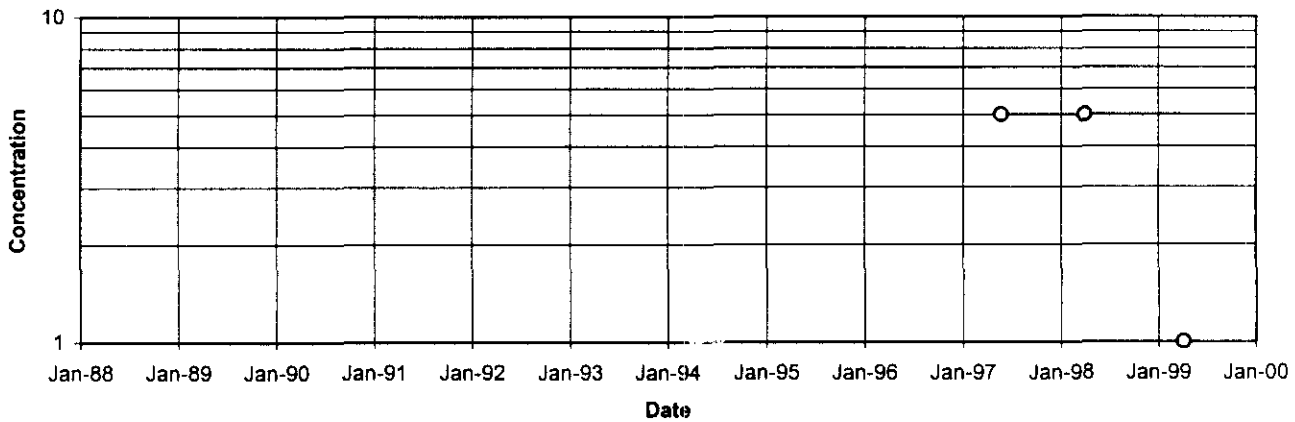
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

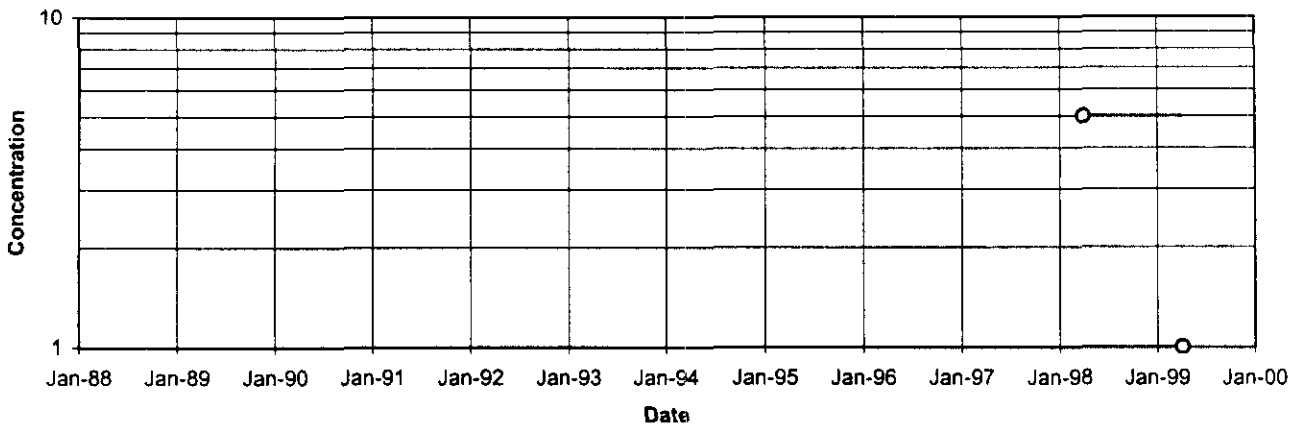
G33S



G34D



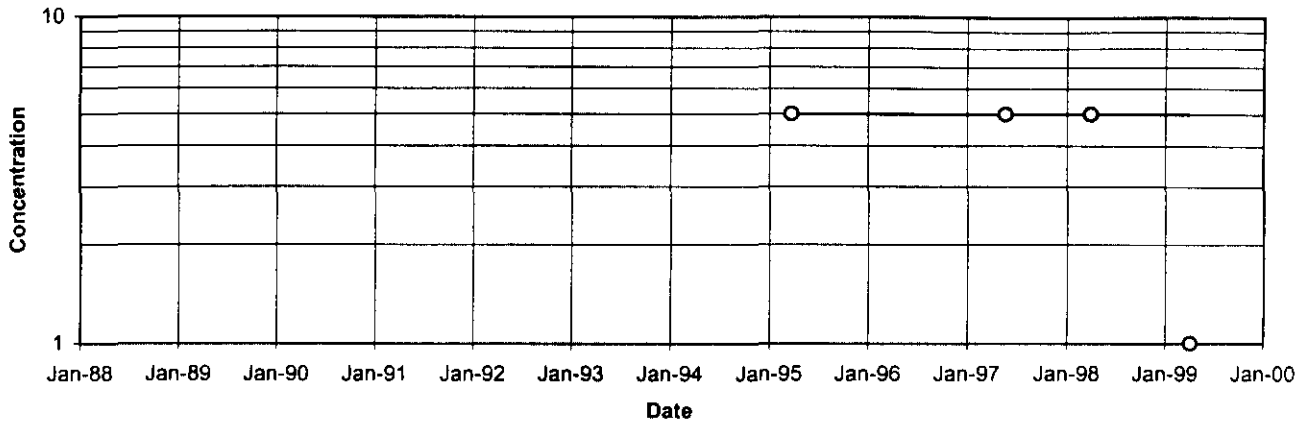
G34S



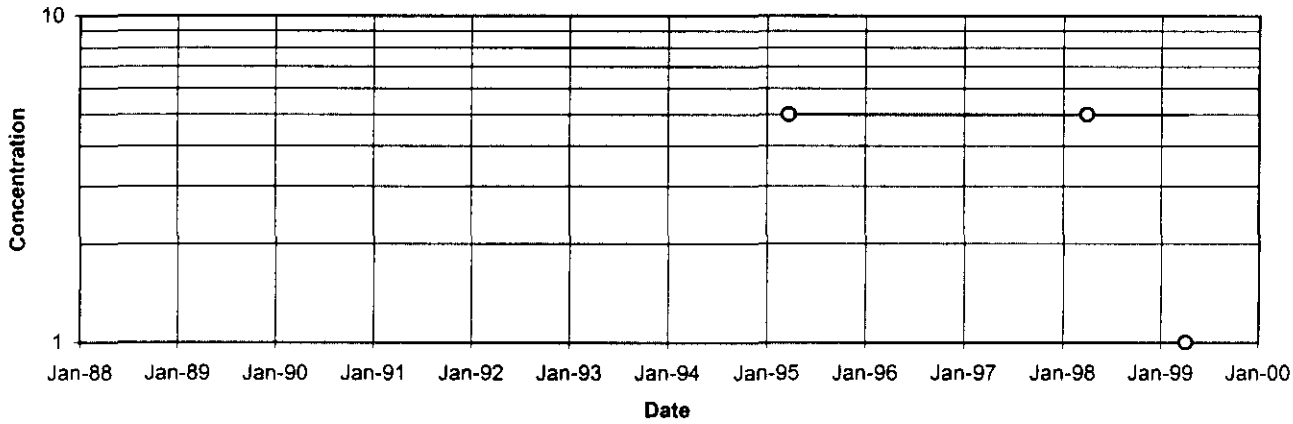
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

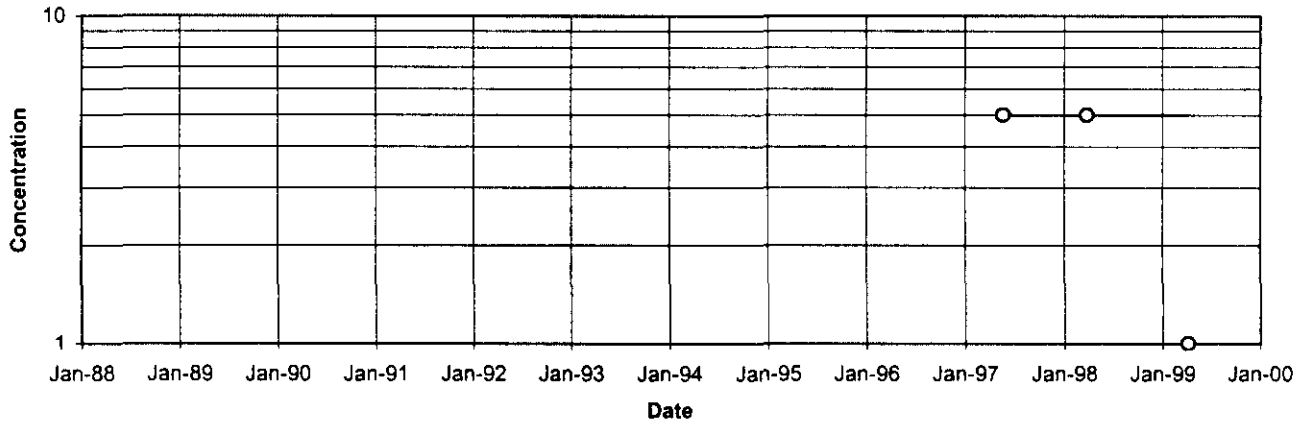
G35D



G35S



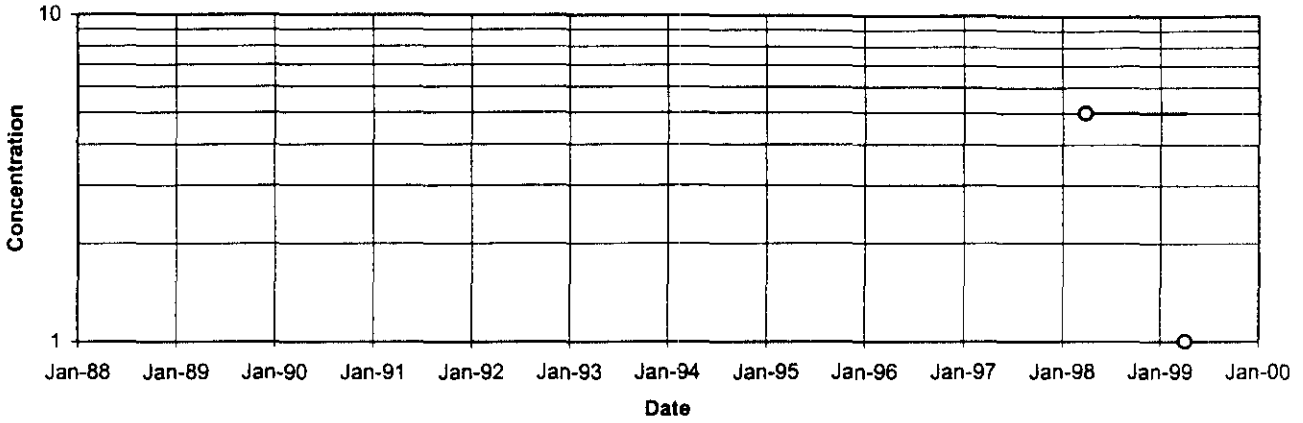
G36



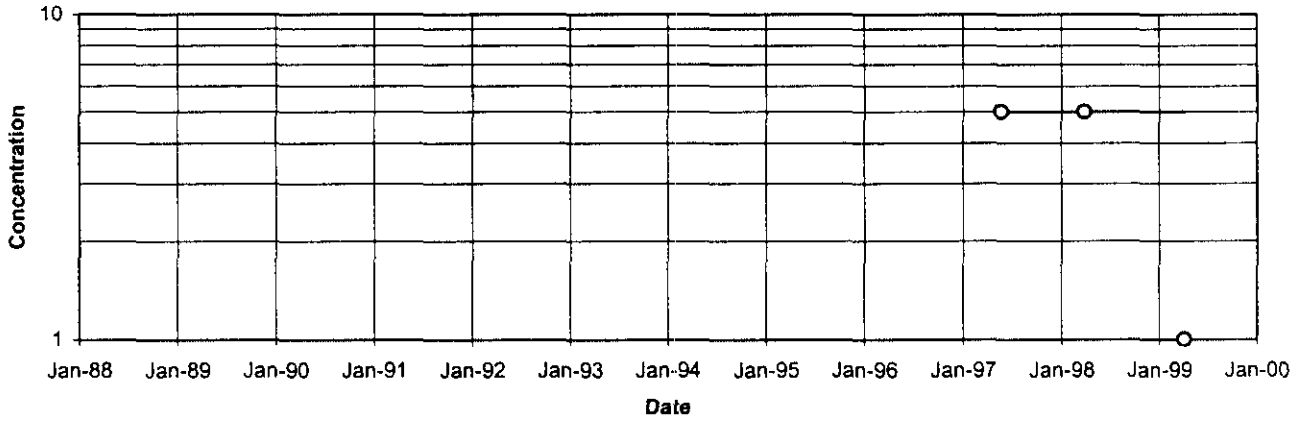
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

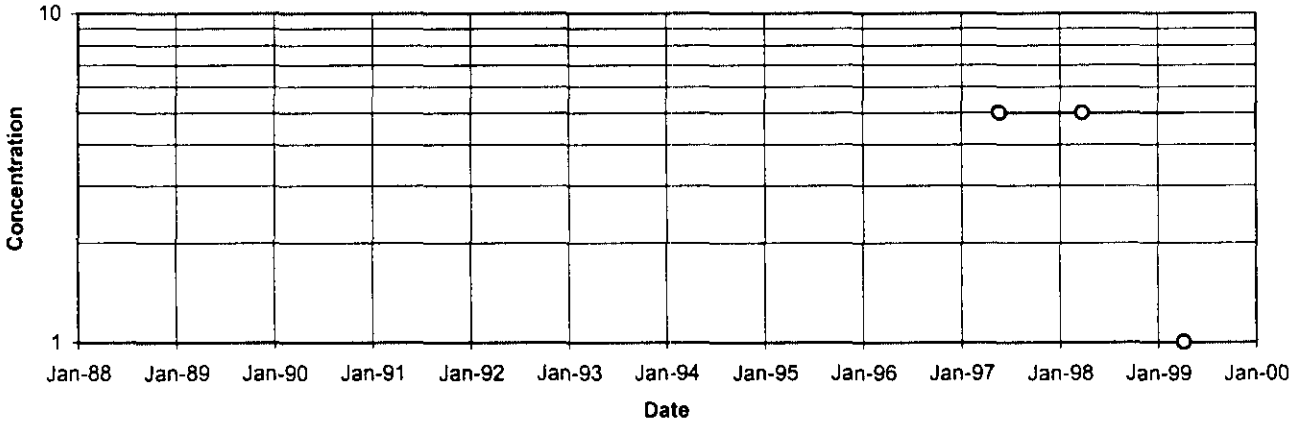
G37D



G37S



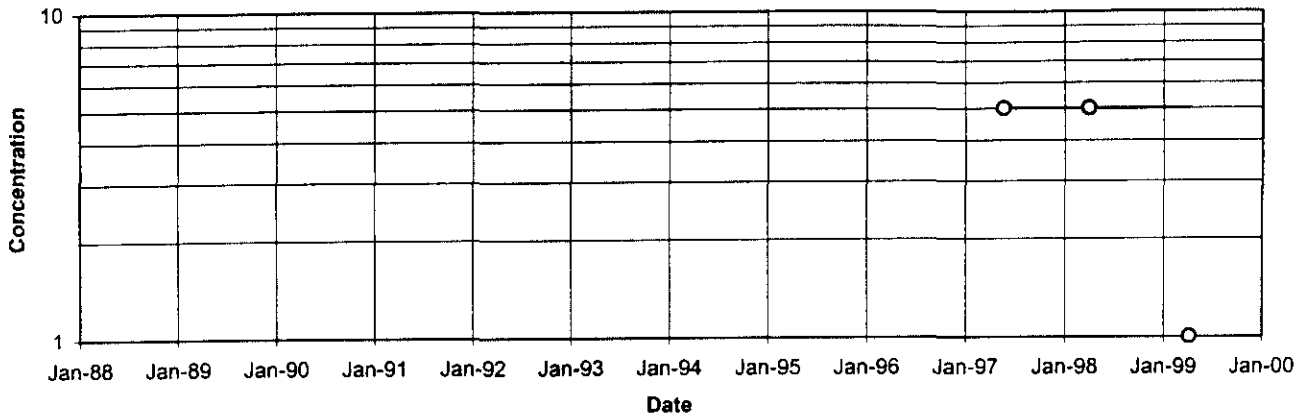
G38



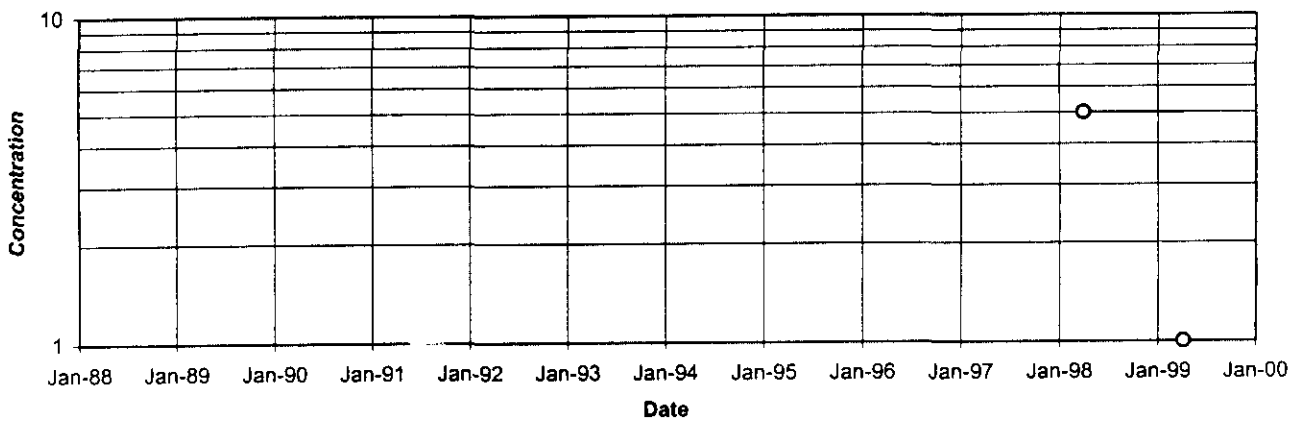
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

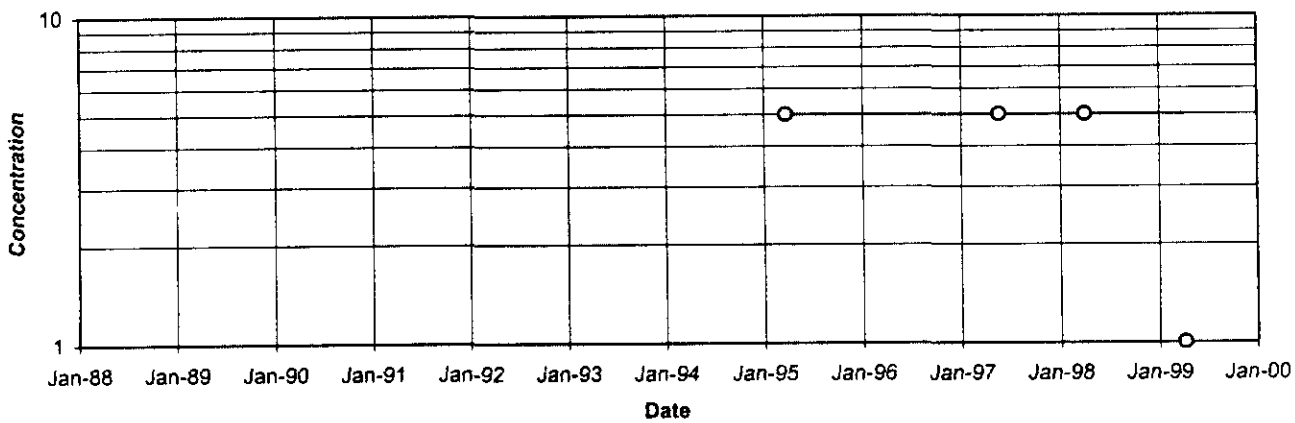
G39



G40



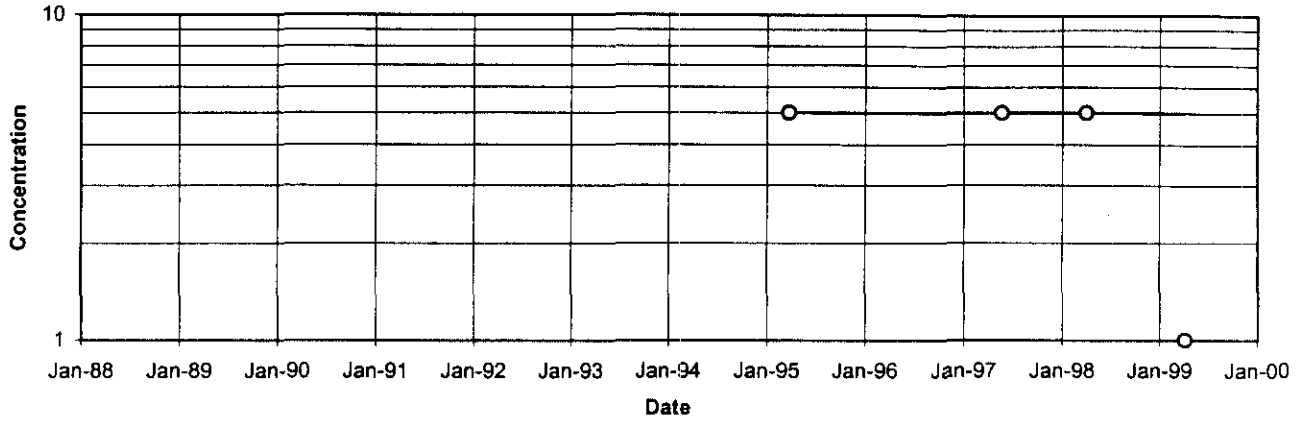
MW106



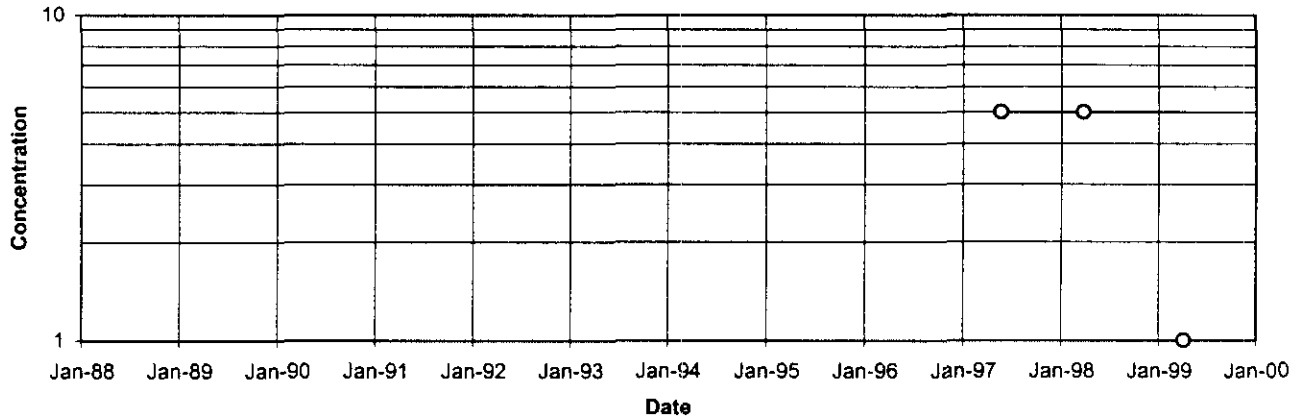
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

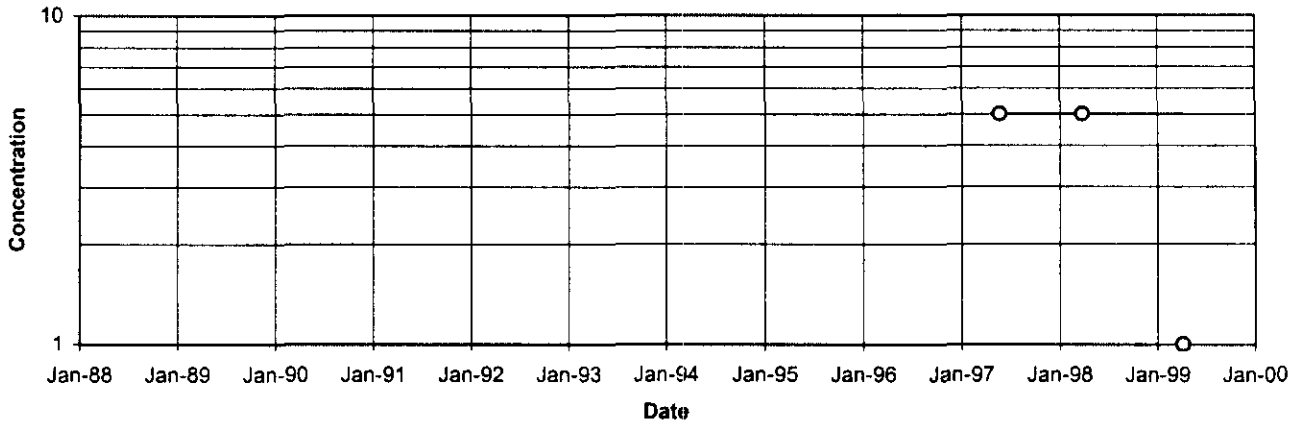
P1



P3R



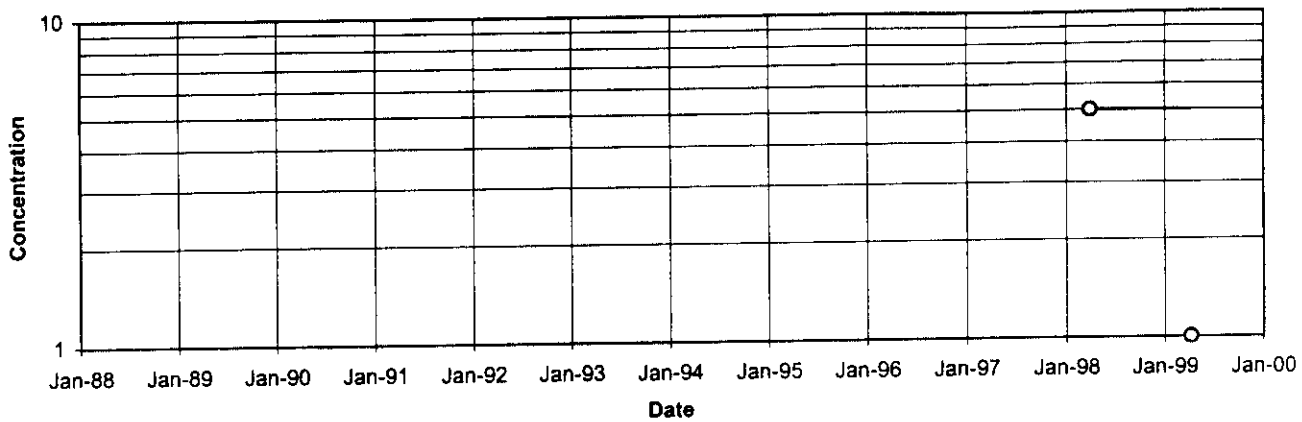
P4R



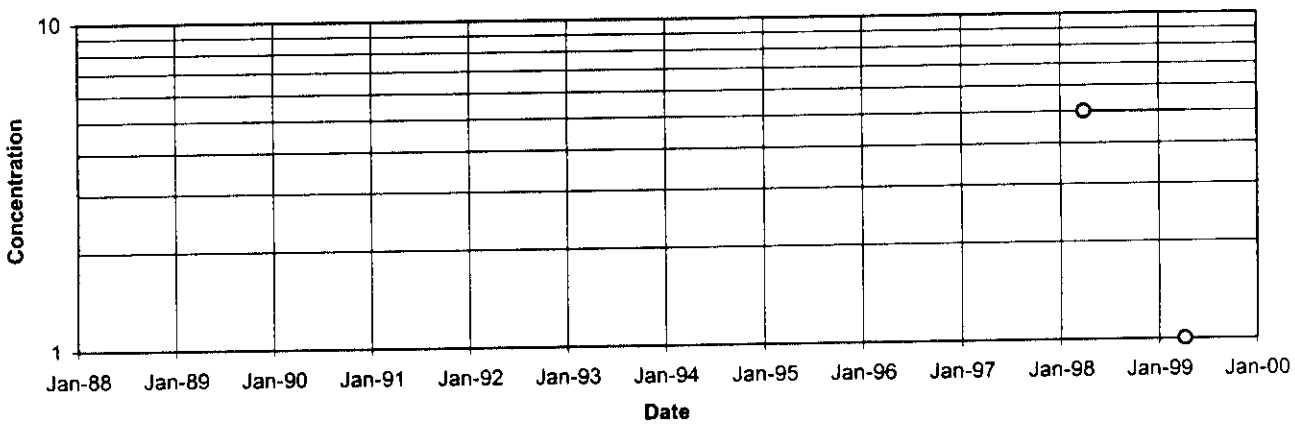
1,2,4-Trimethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

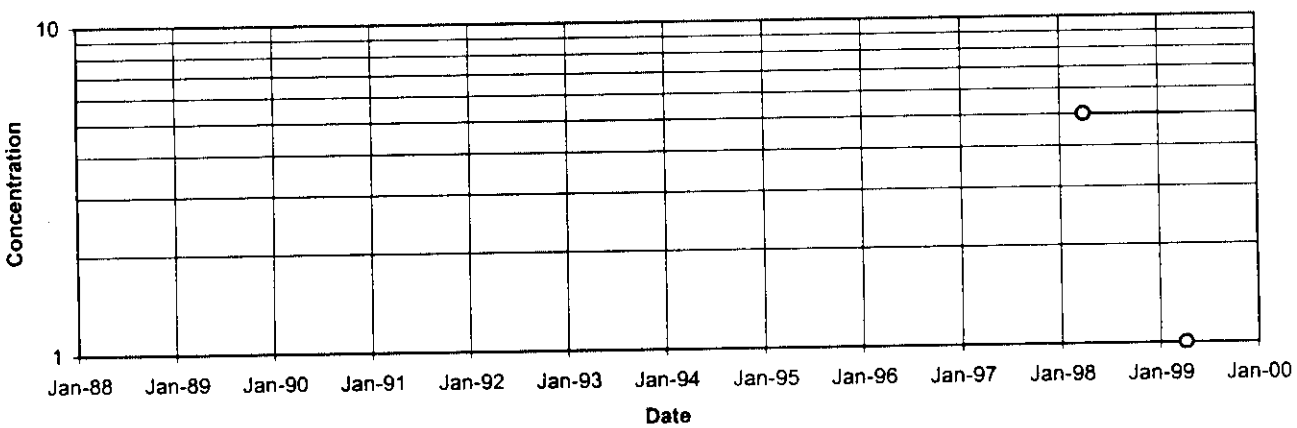
SG1



SG3



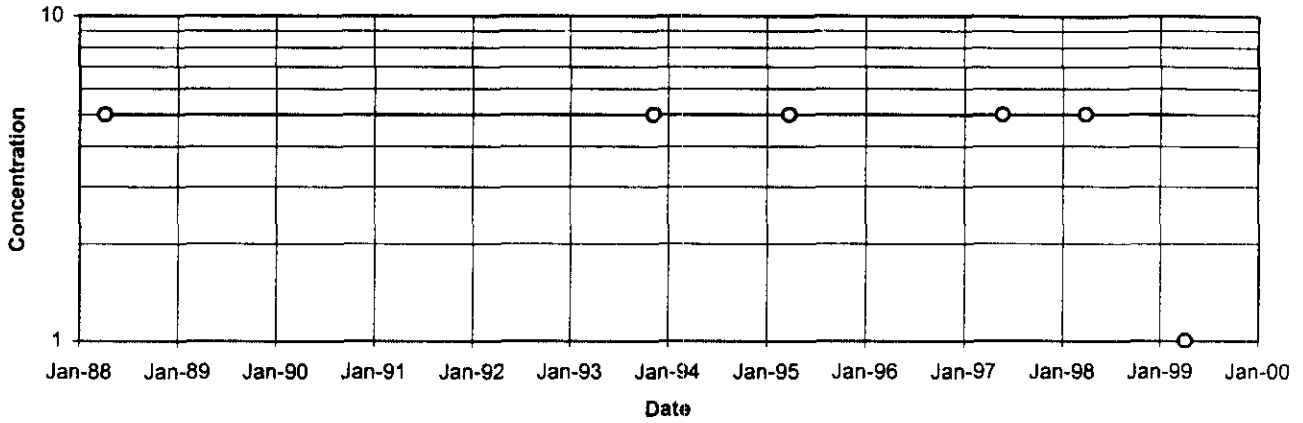
SG4



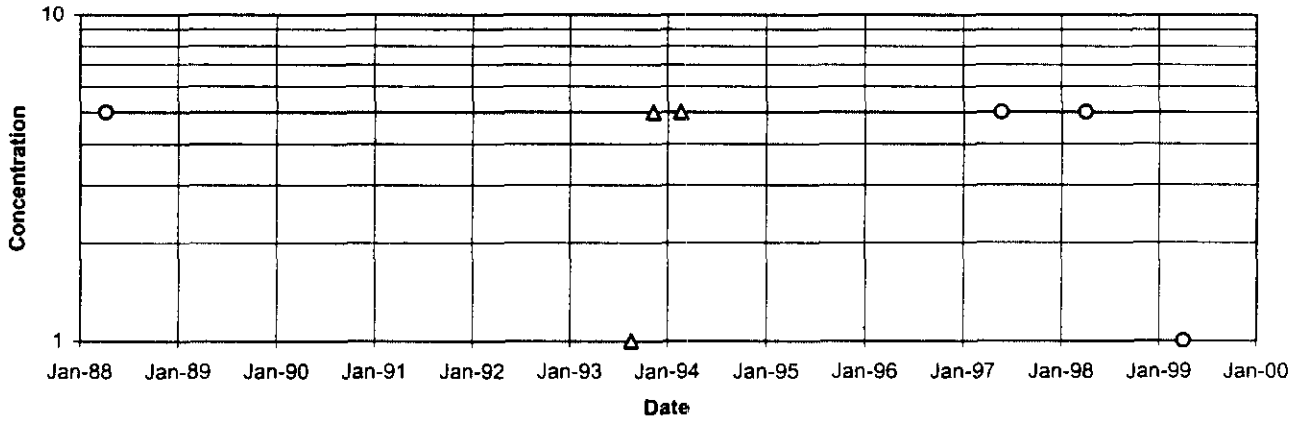
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

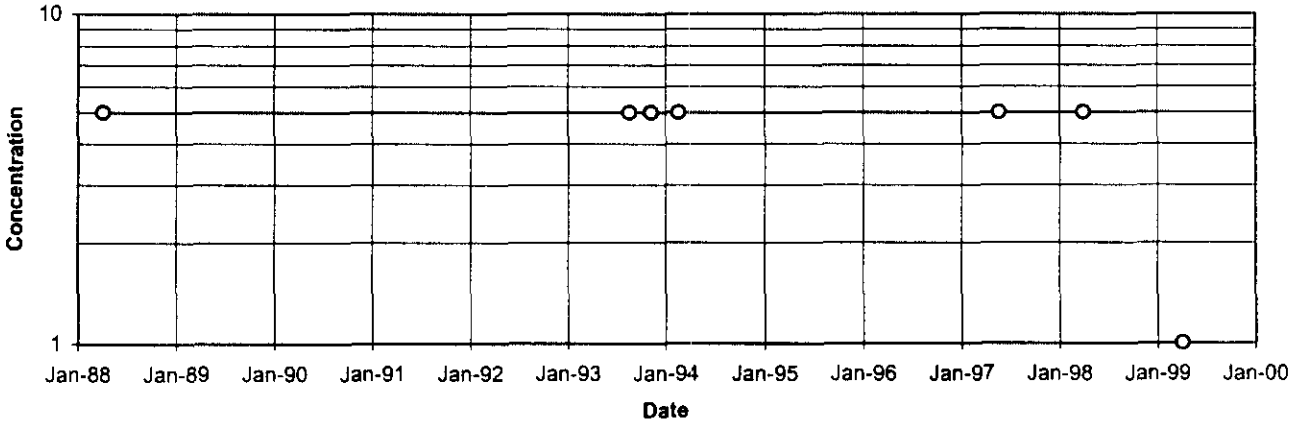
B15R



G109



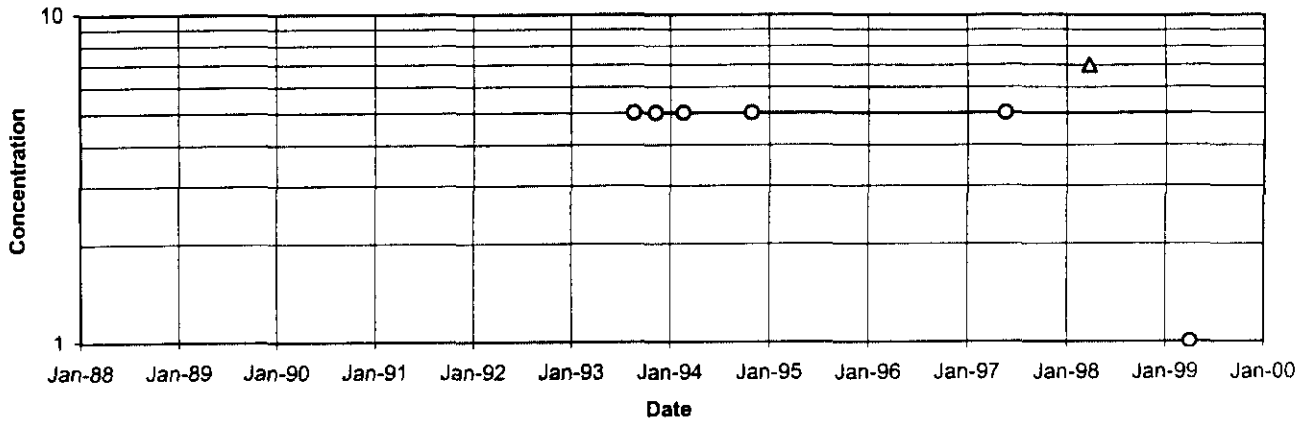
G109A



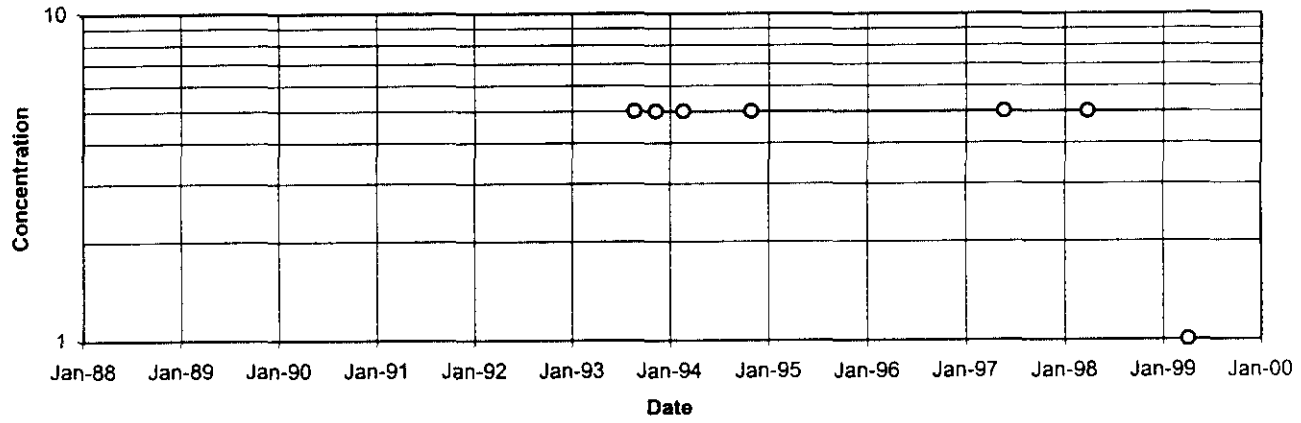
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

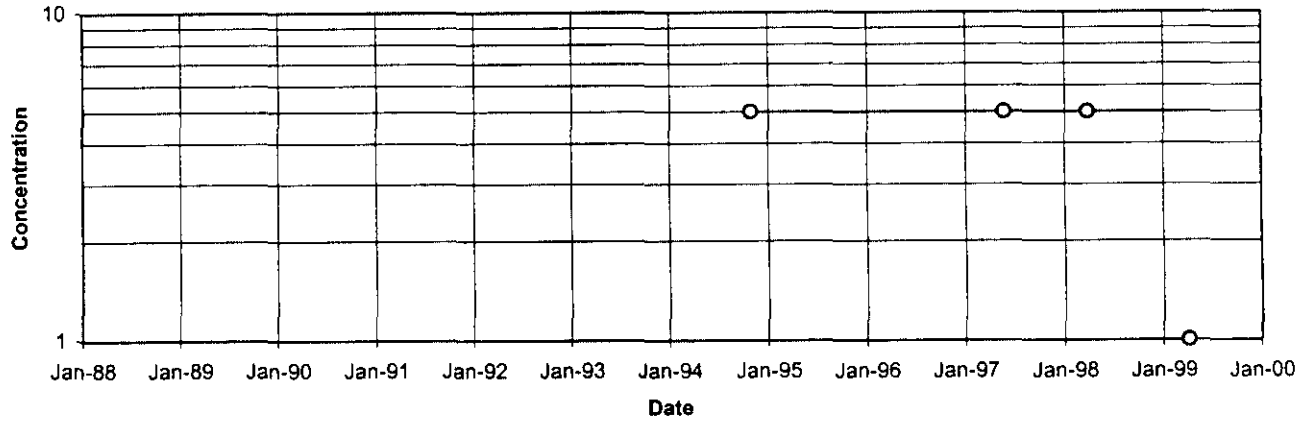
G113



G113A



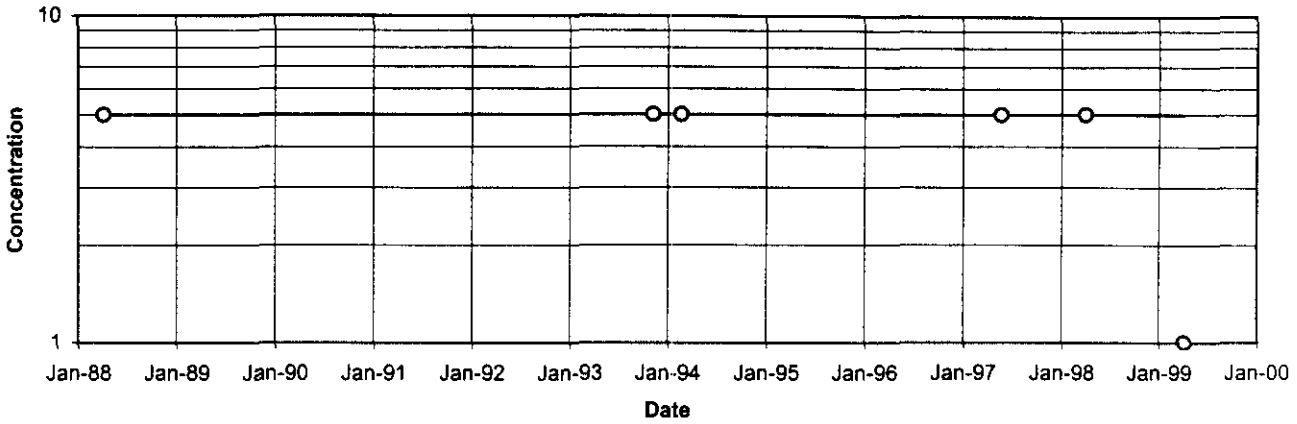
G114



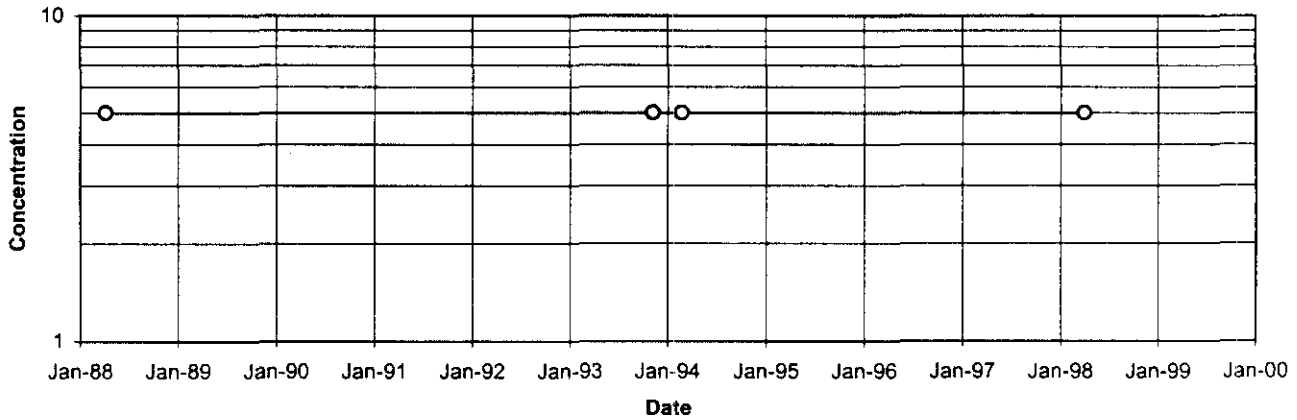
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

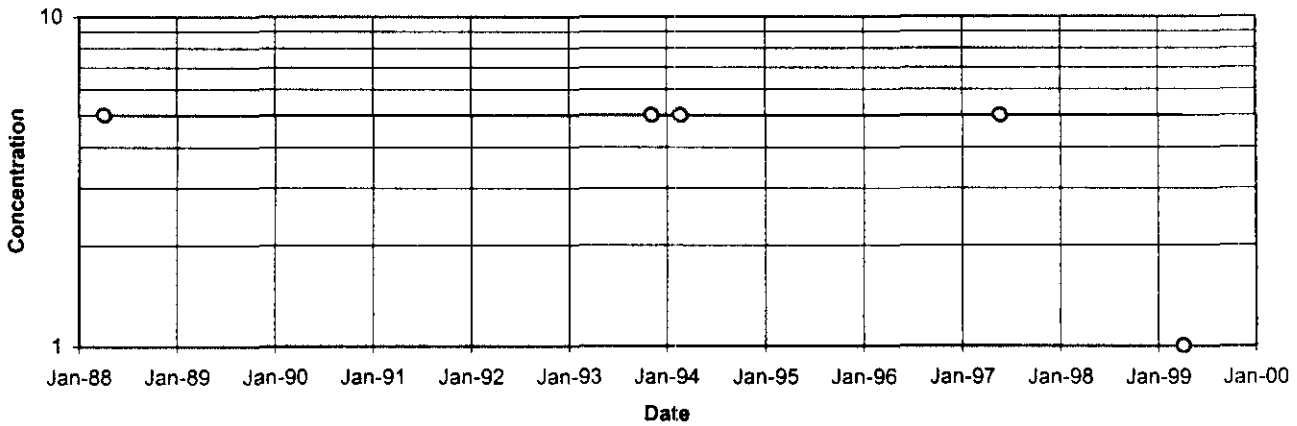
G115



G116



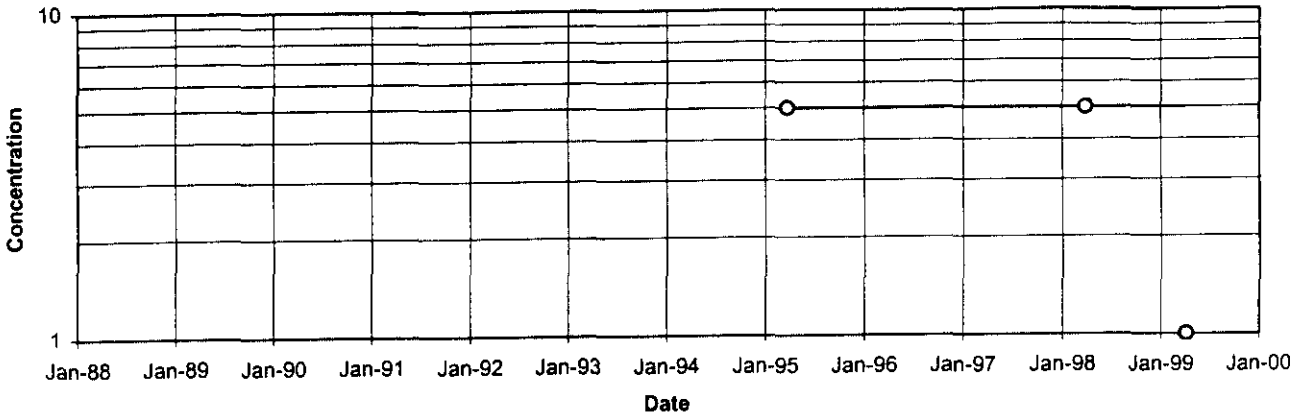
G116A



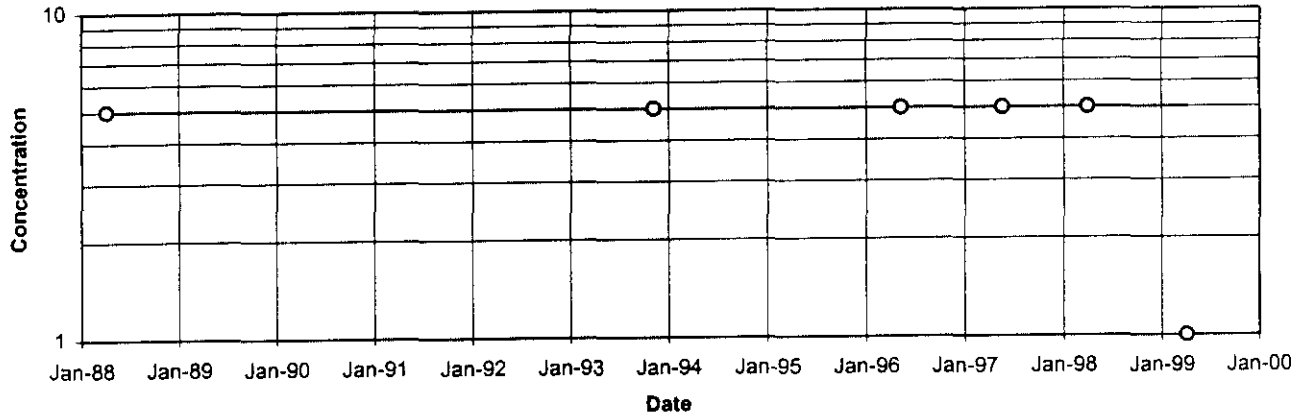
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

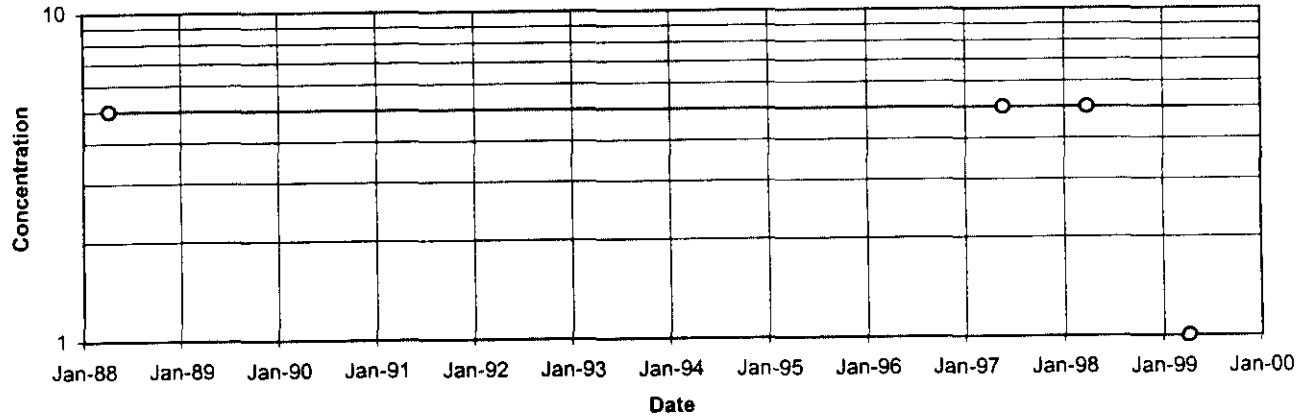
G116D



G117



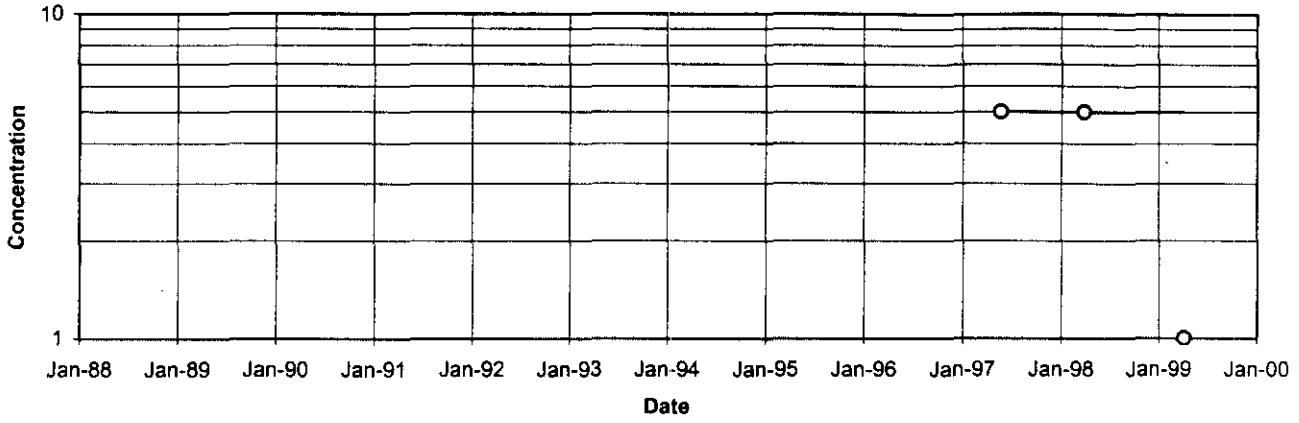
G118A



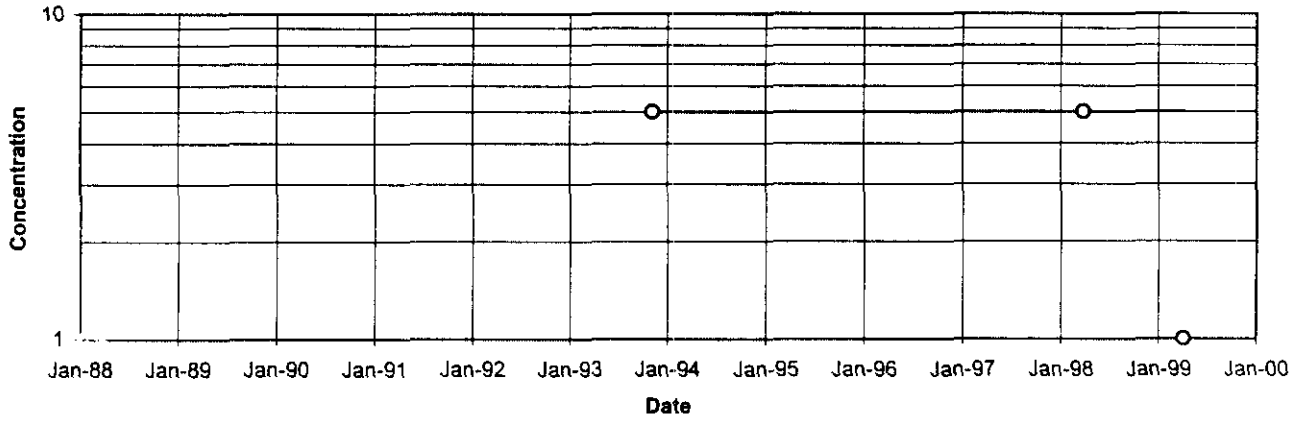
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

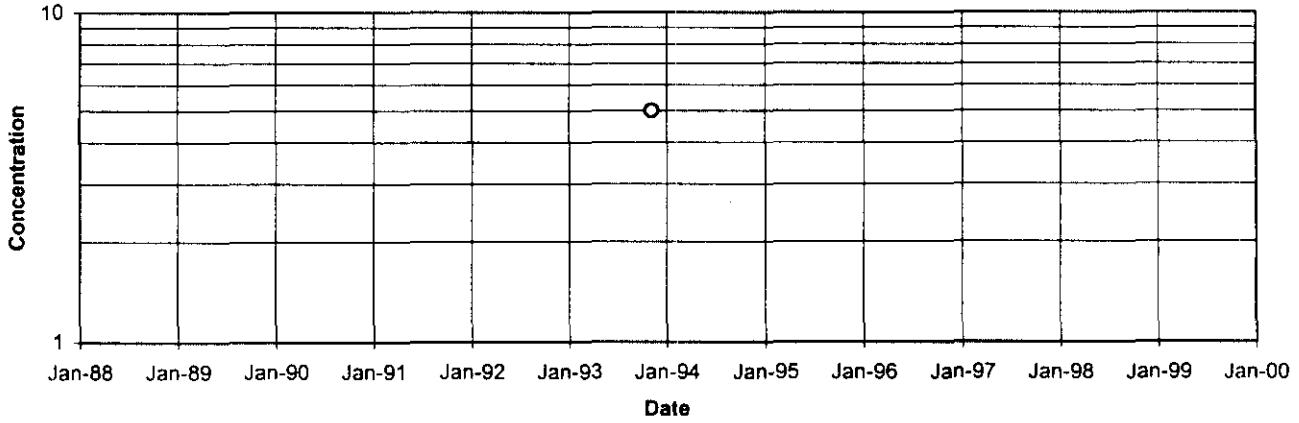
G118R



G119



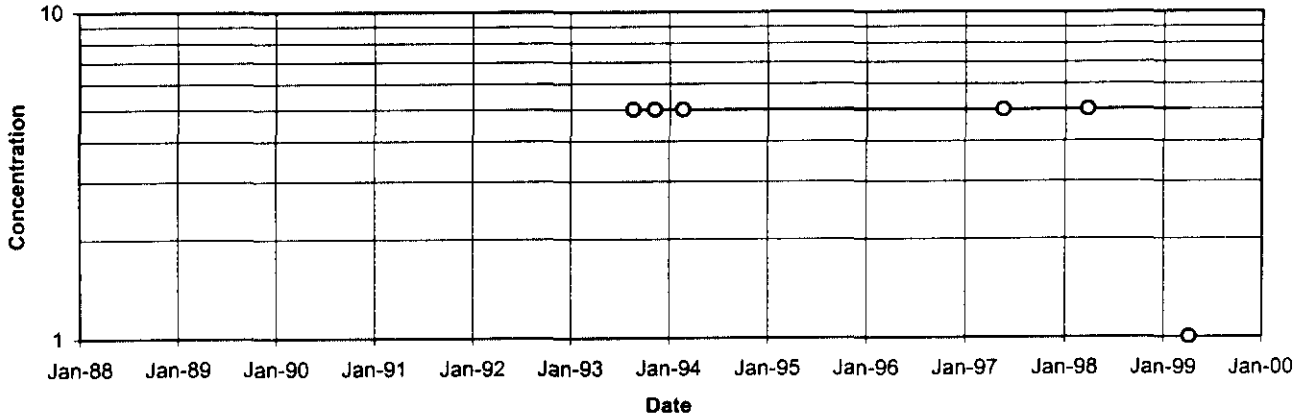
G119A



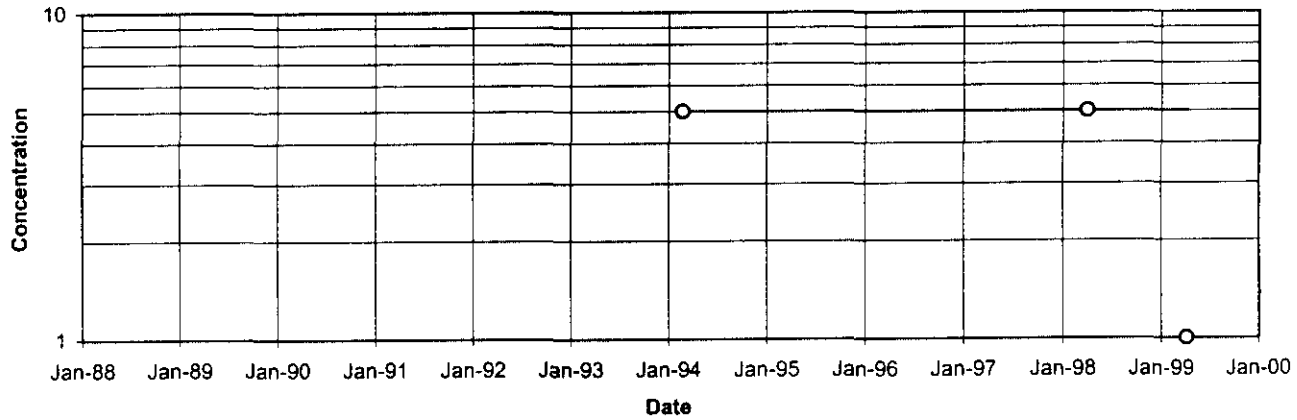
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

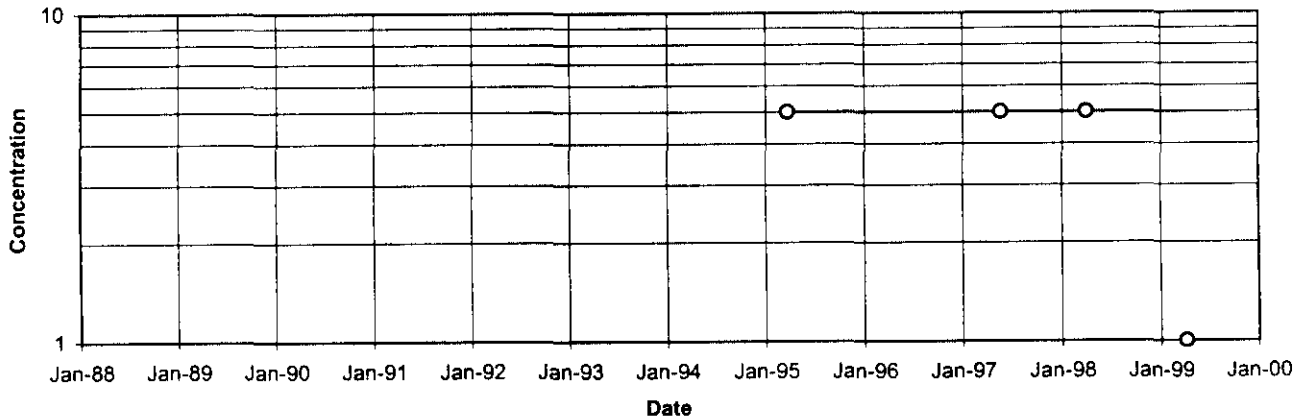
G120B



G130



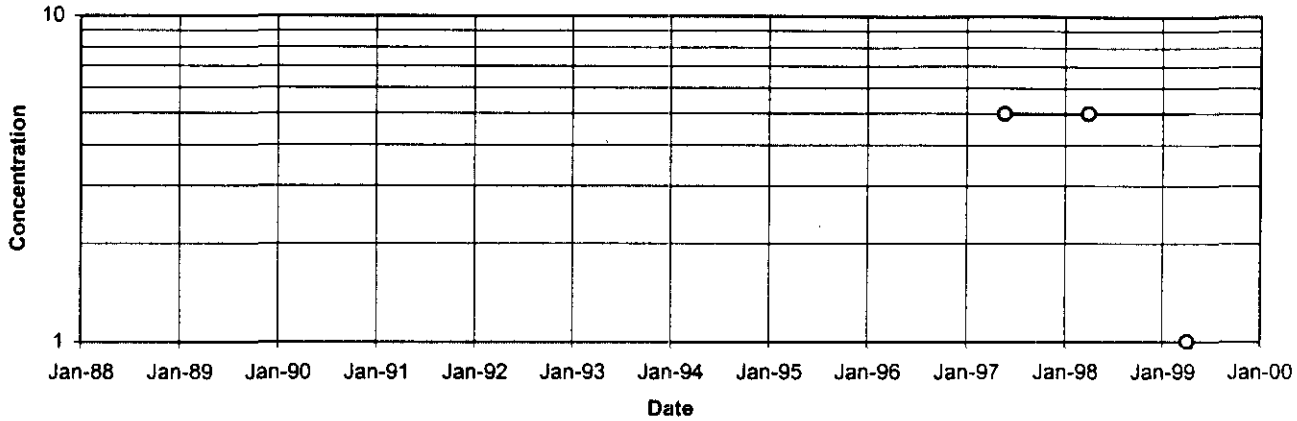
G132



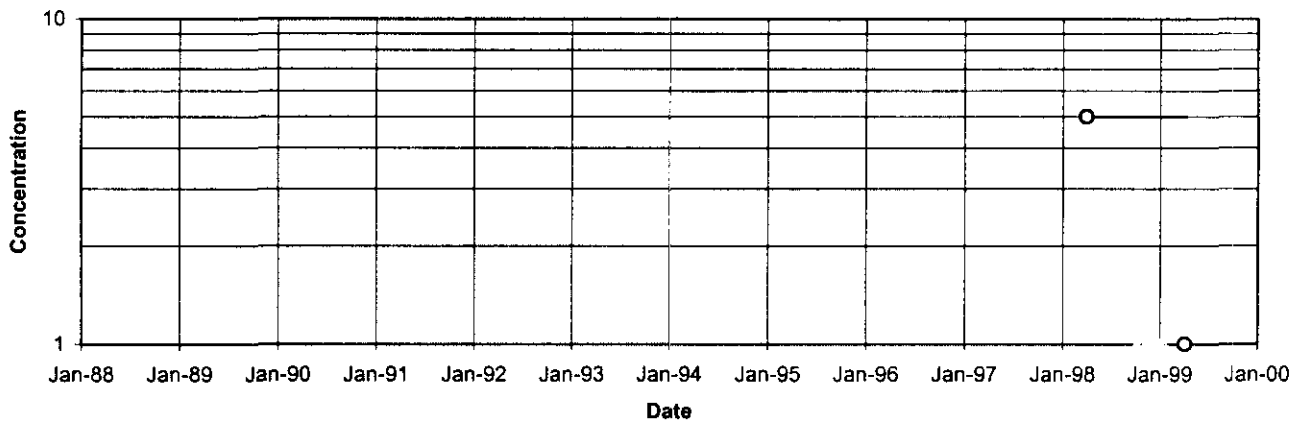
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

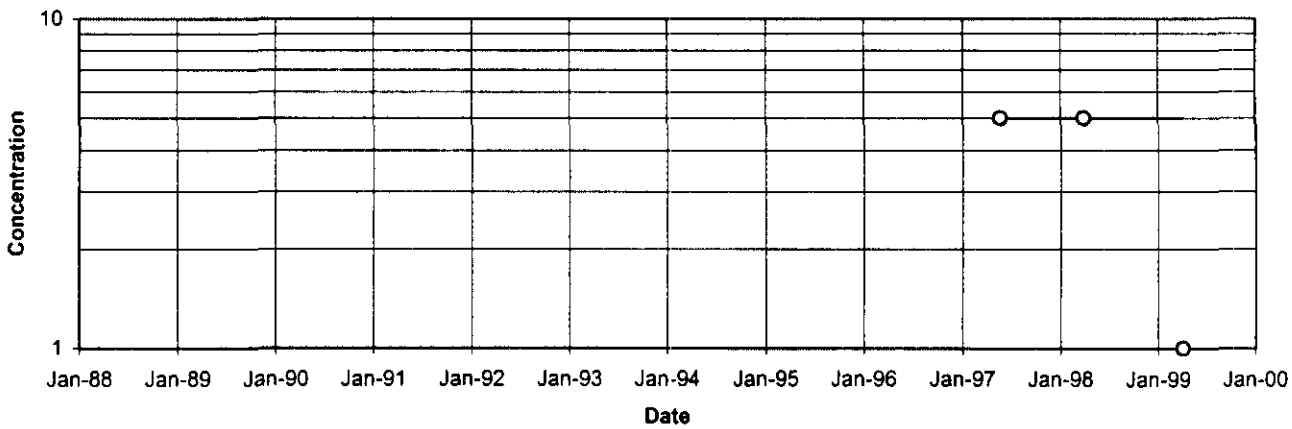
G33D



G33S



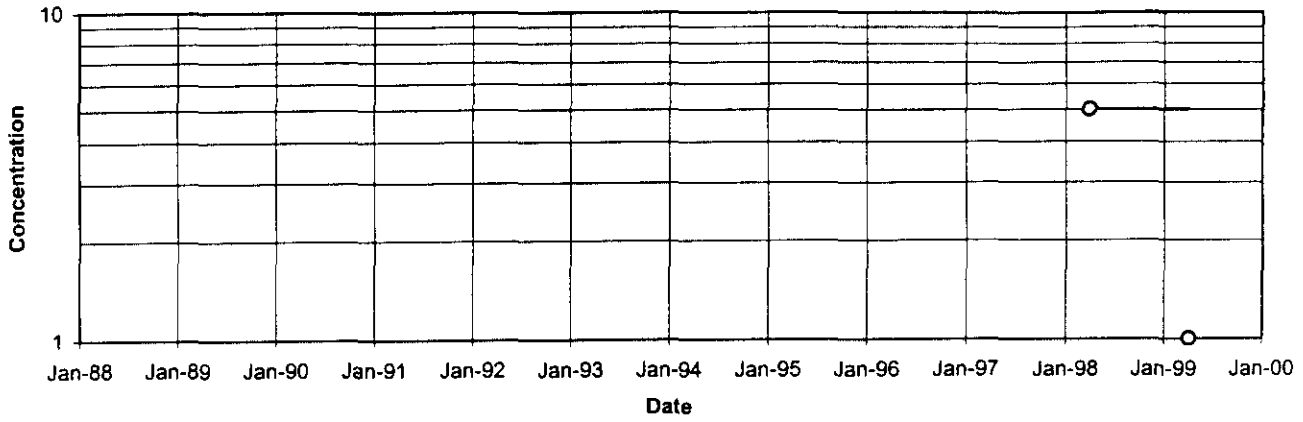
G34D



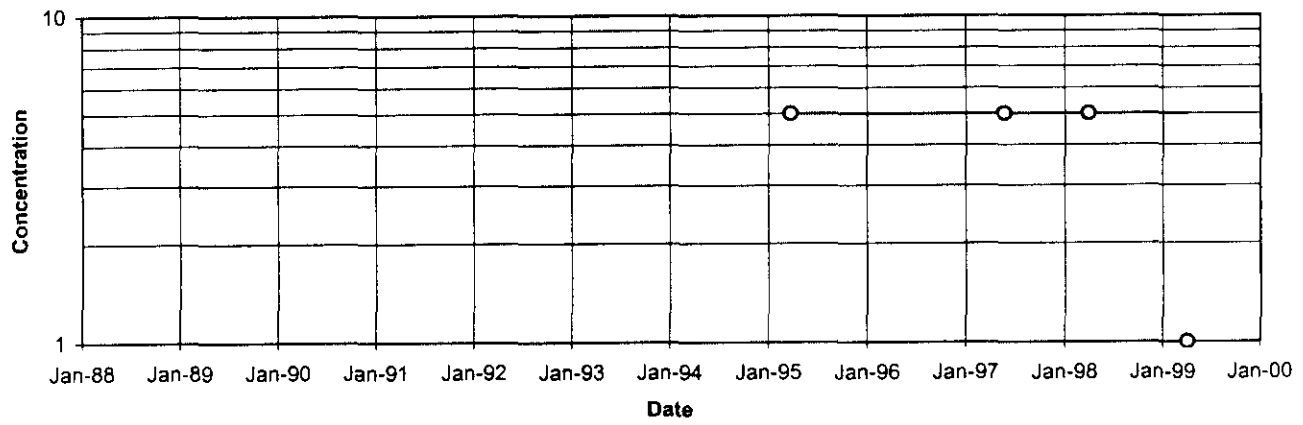
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

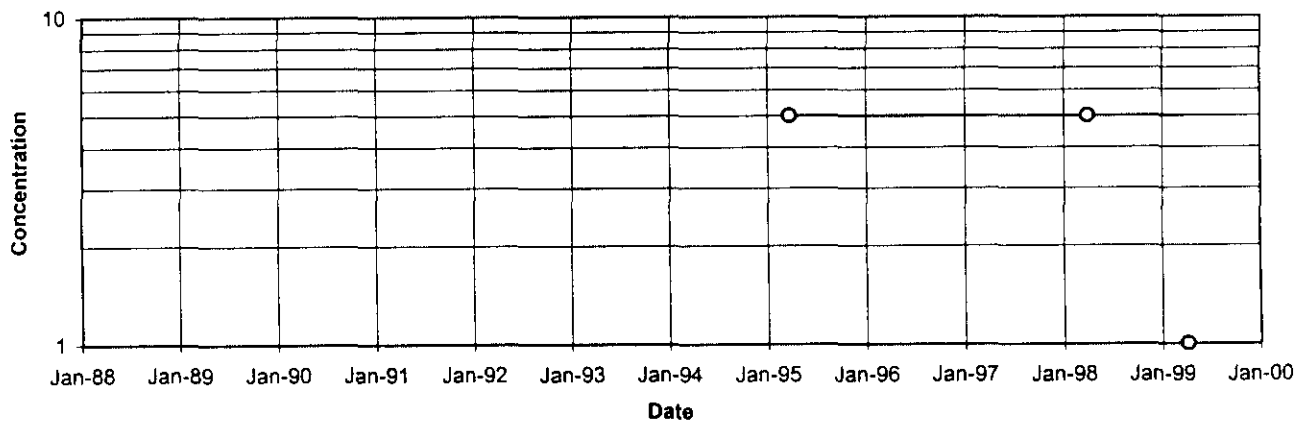
G34S



G35D



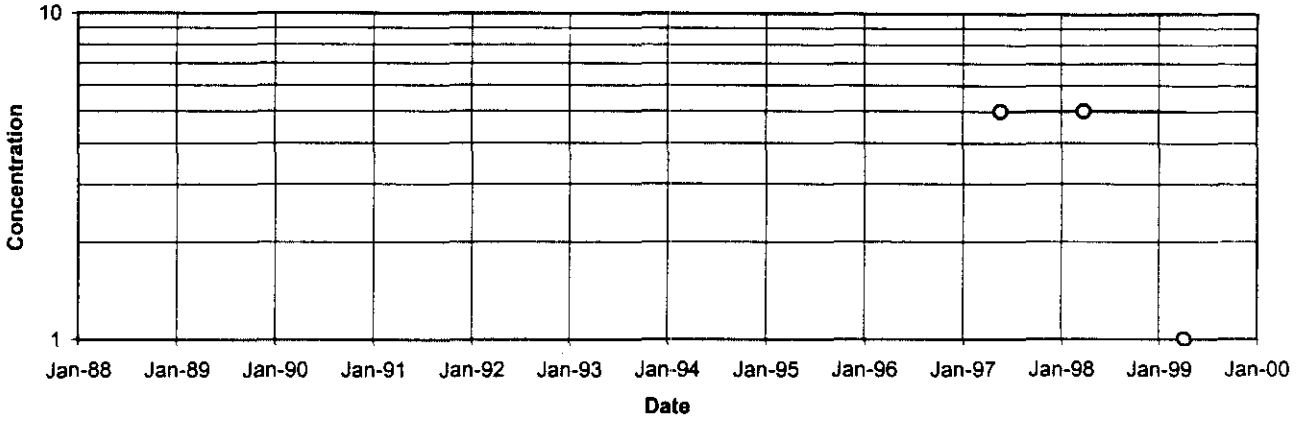
G35S



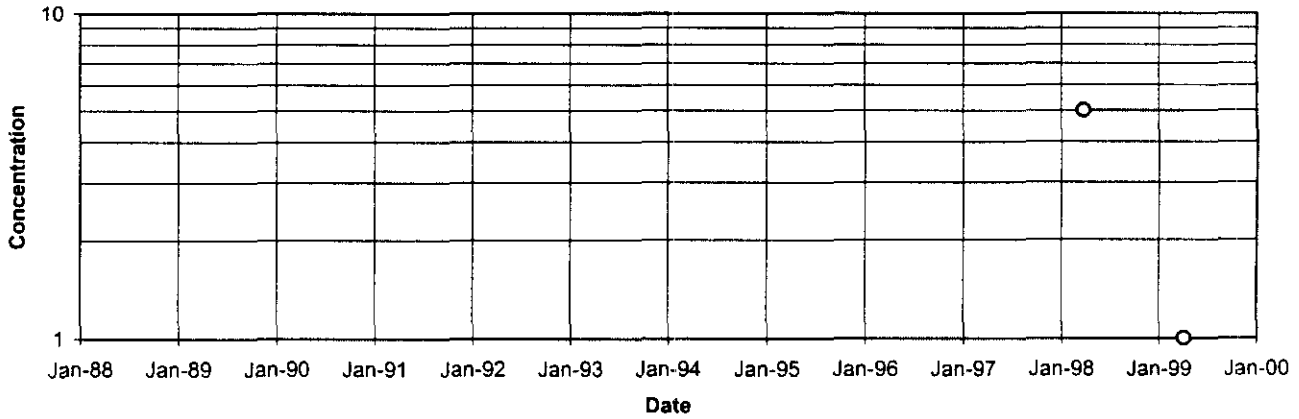
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

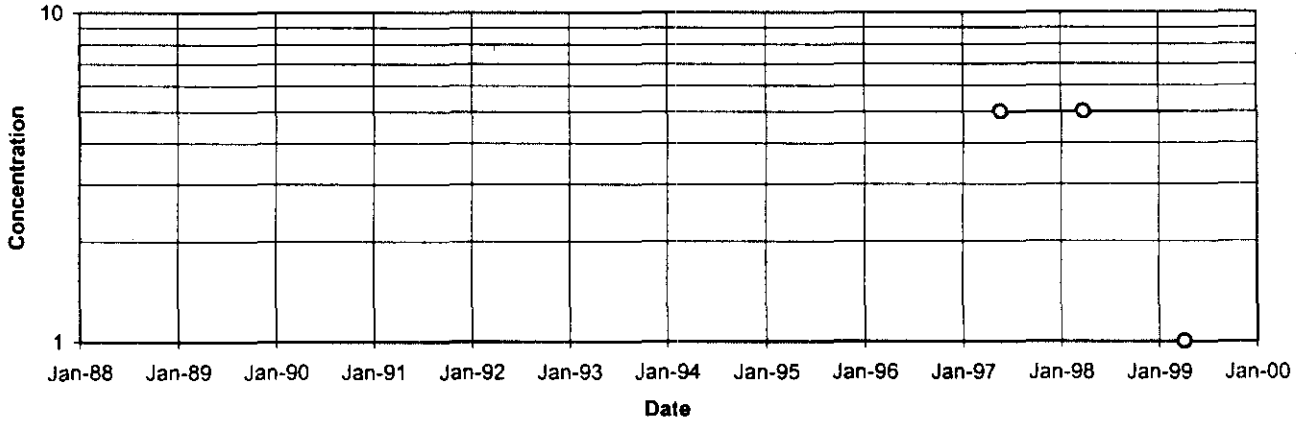
G36



G37D



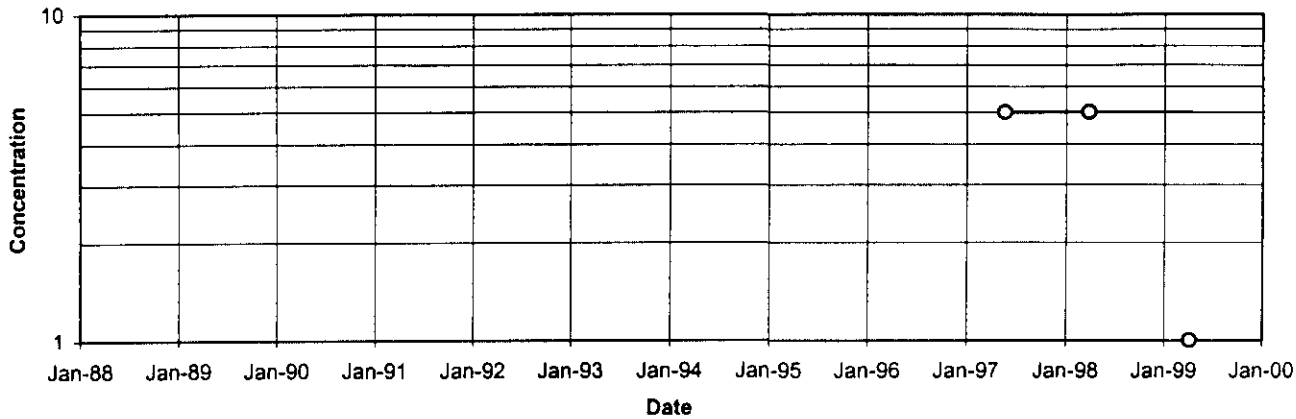
G37S



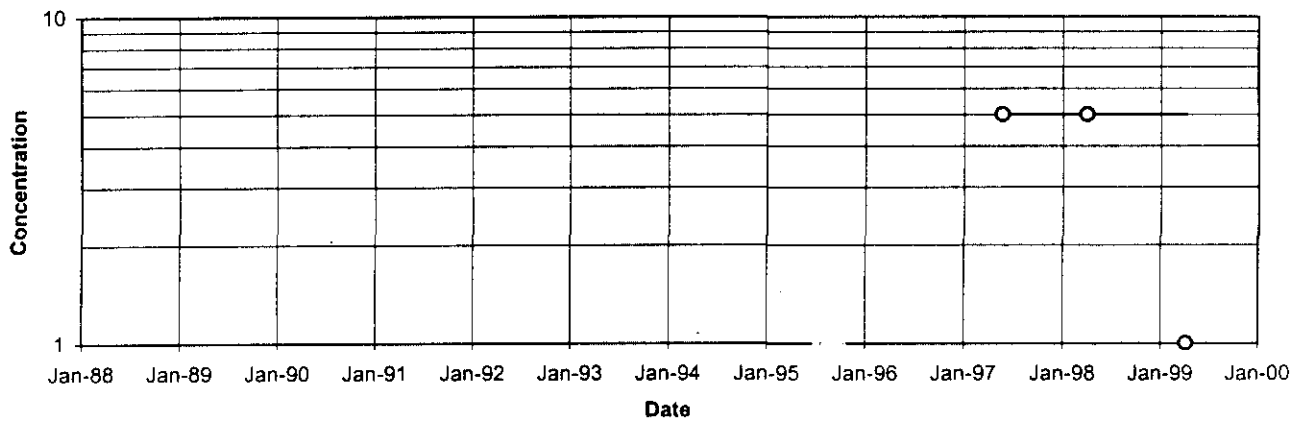
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

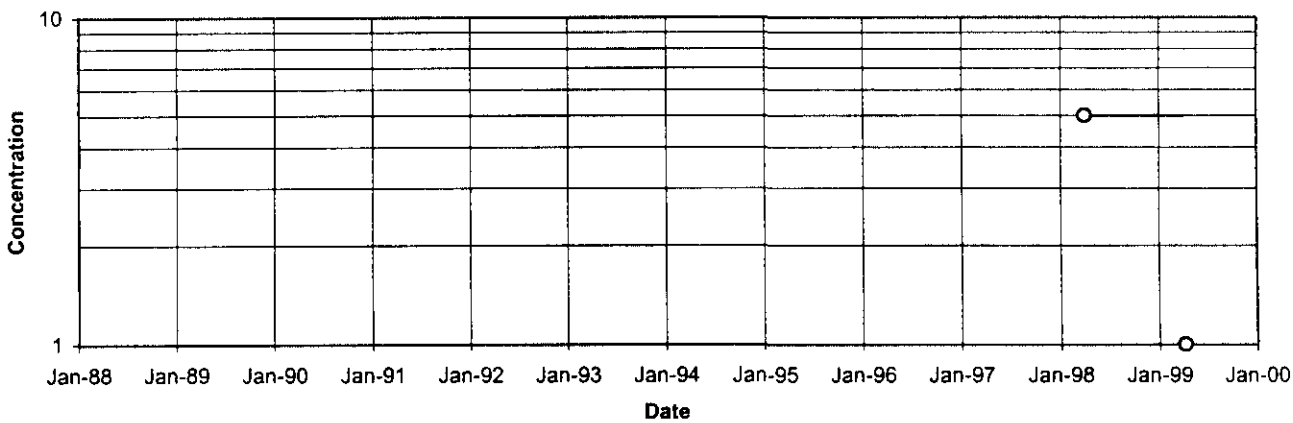
G38



G39



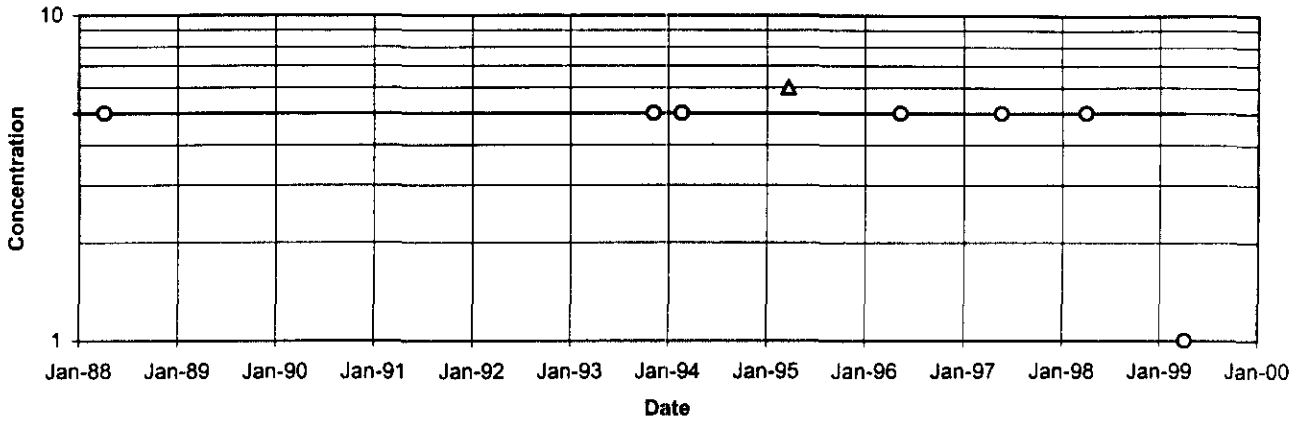
G40



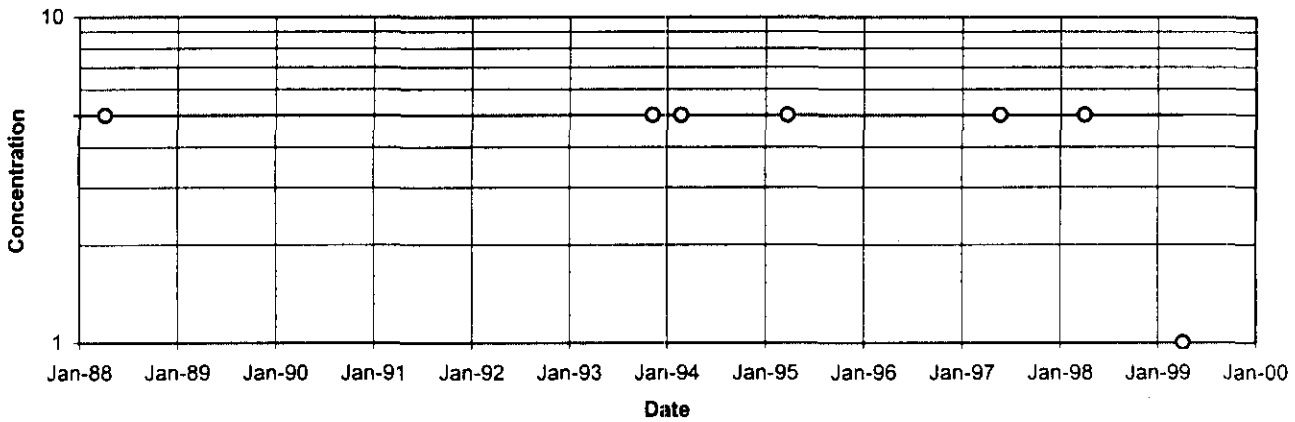
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

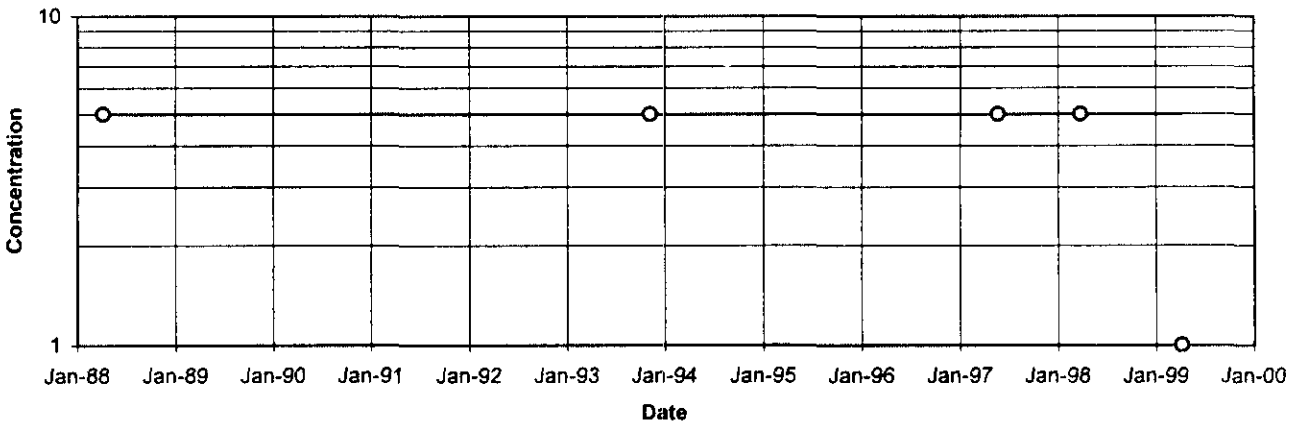
MW106



P1



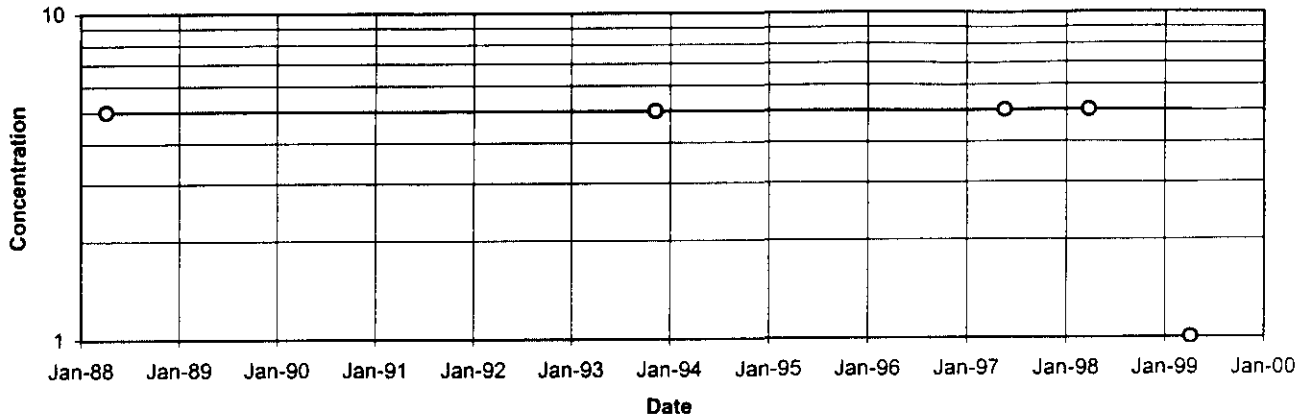
P3R



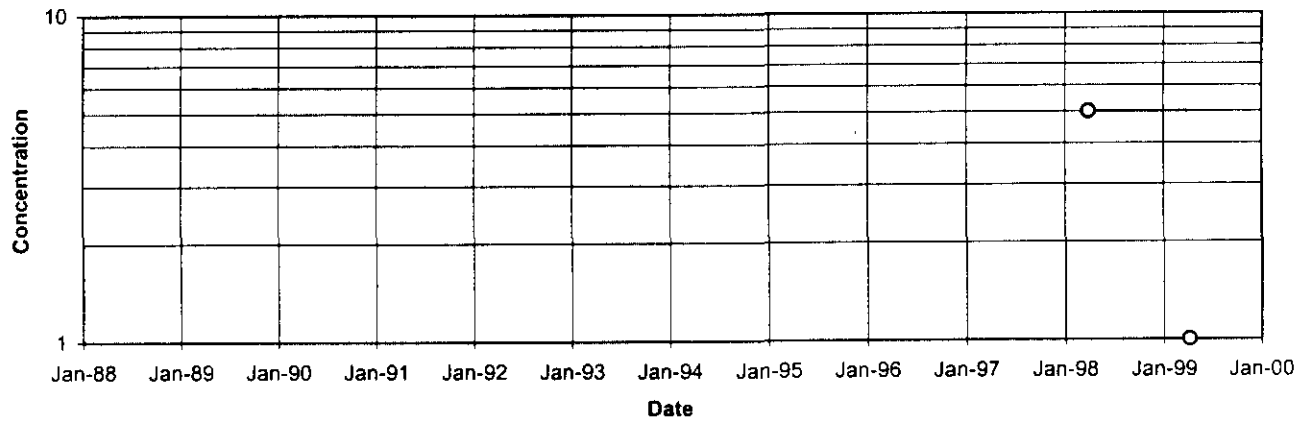
1,2,4-Trichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

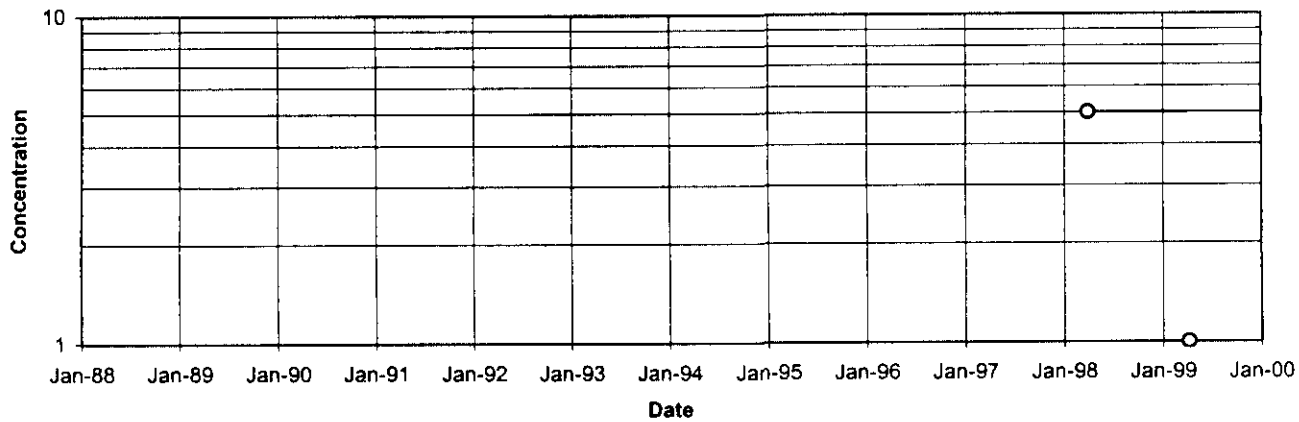
P4R



SG1



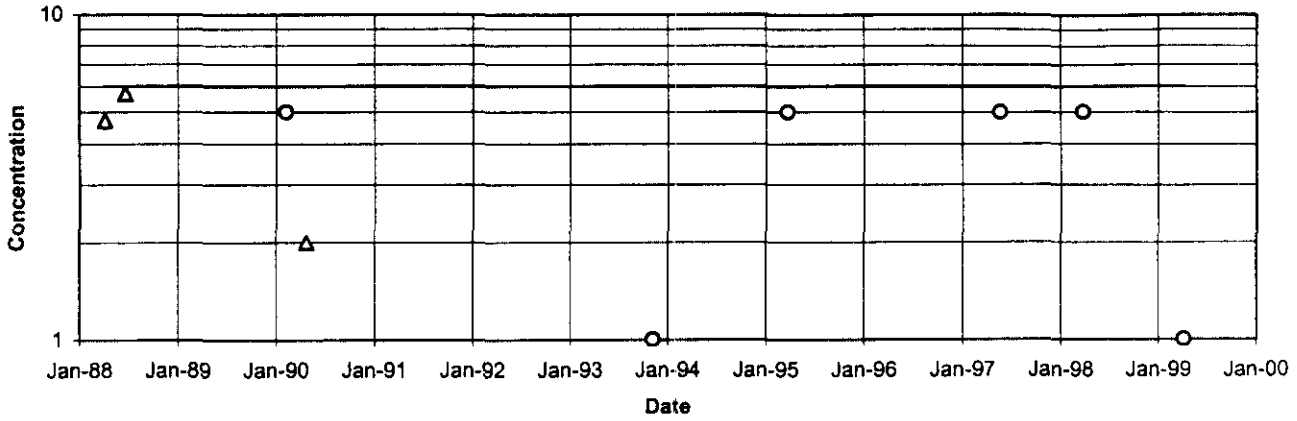
SG3



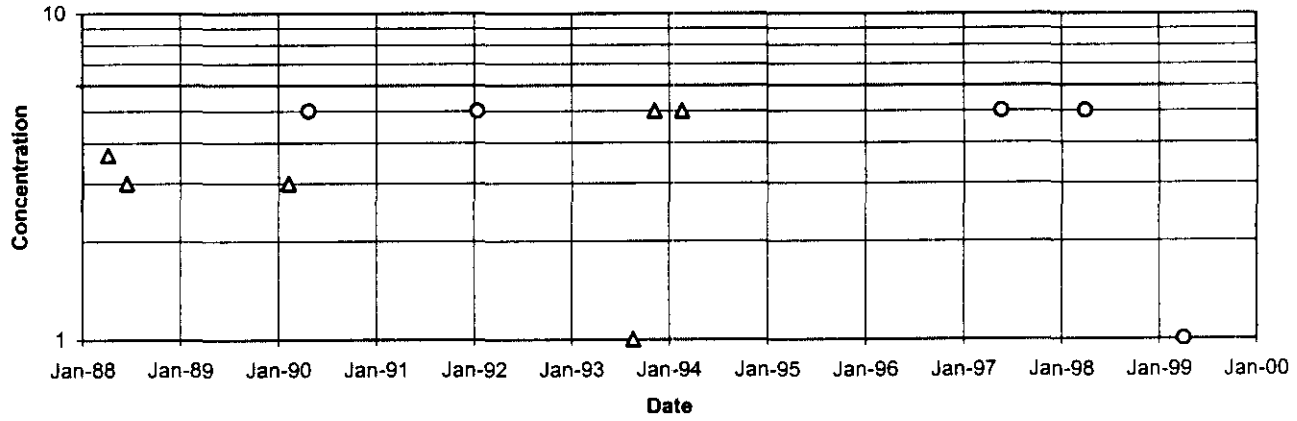
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

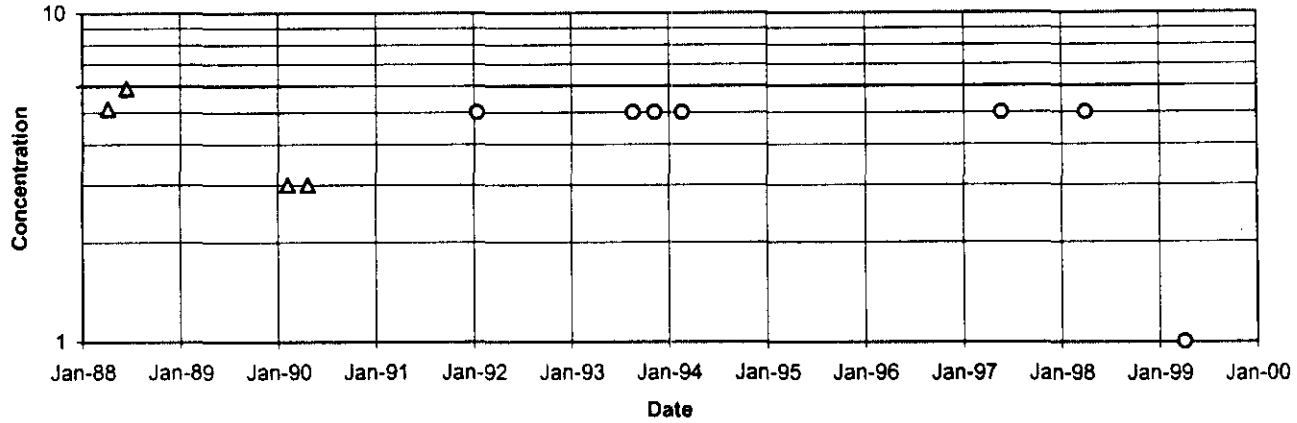
B15R



G109



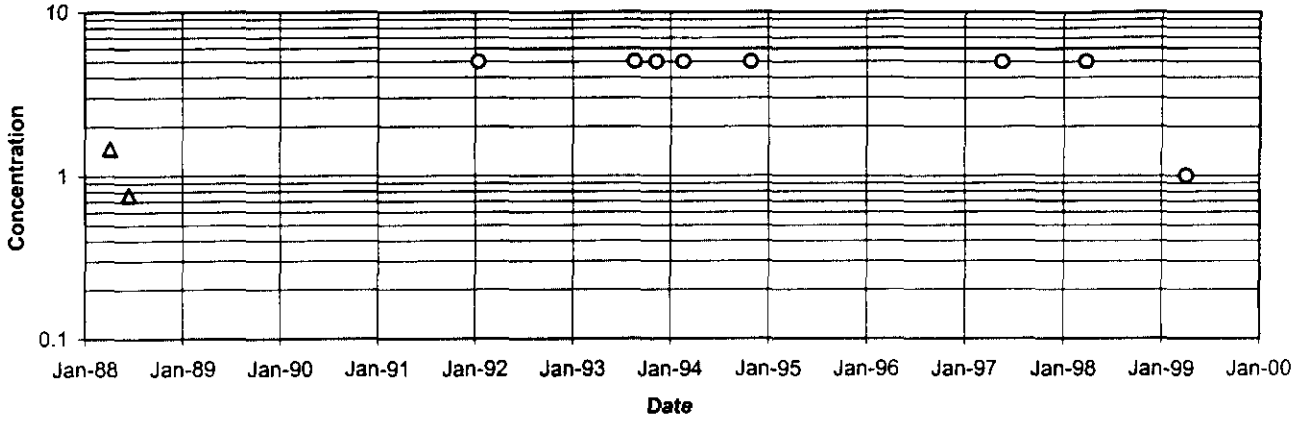
G109A



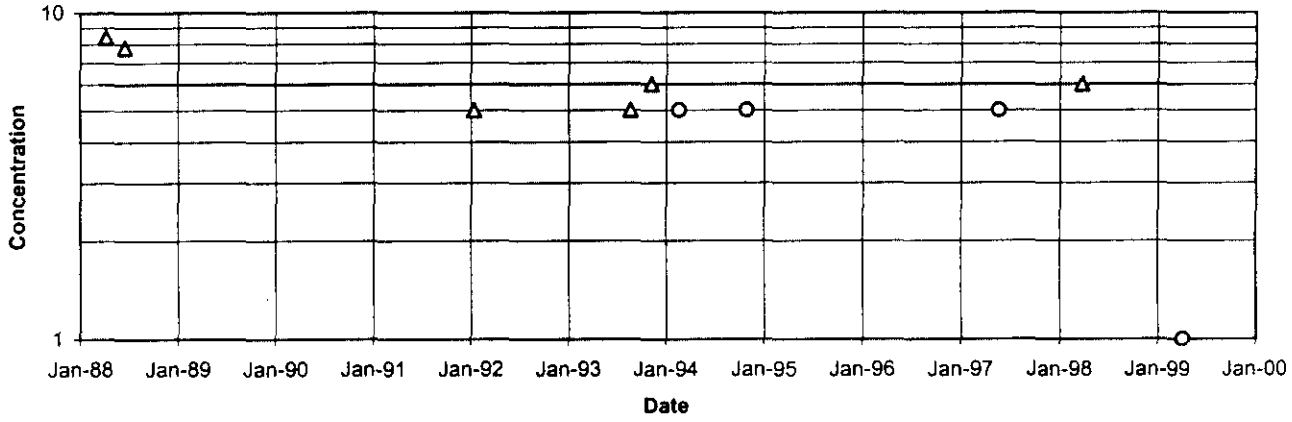
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

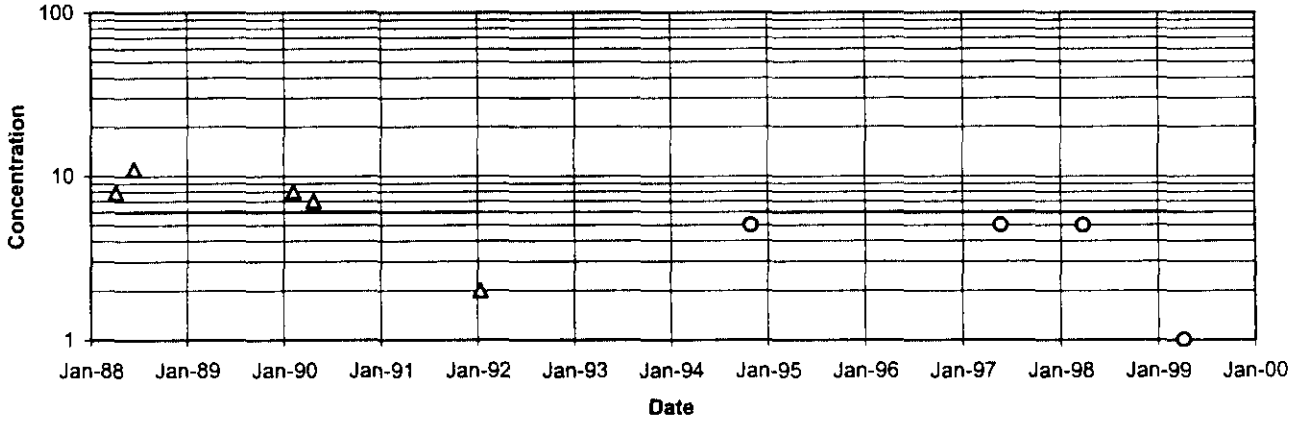
G113



G113A



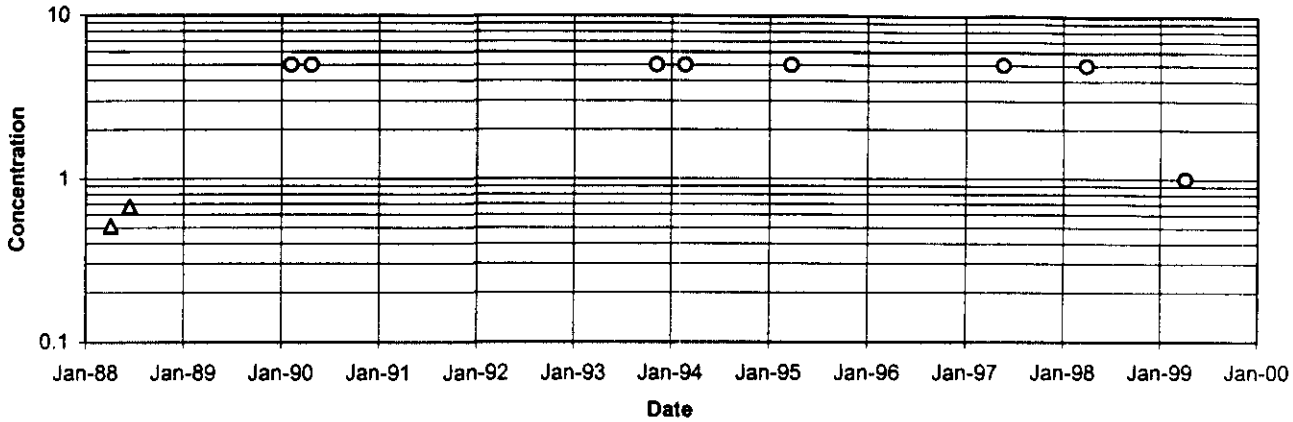
G114



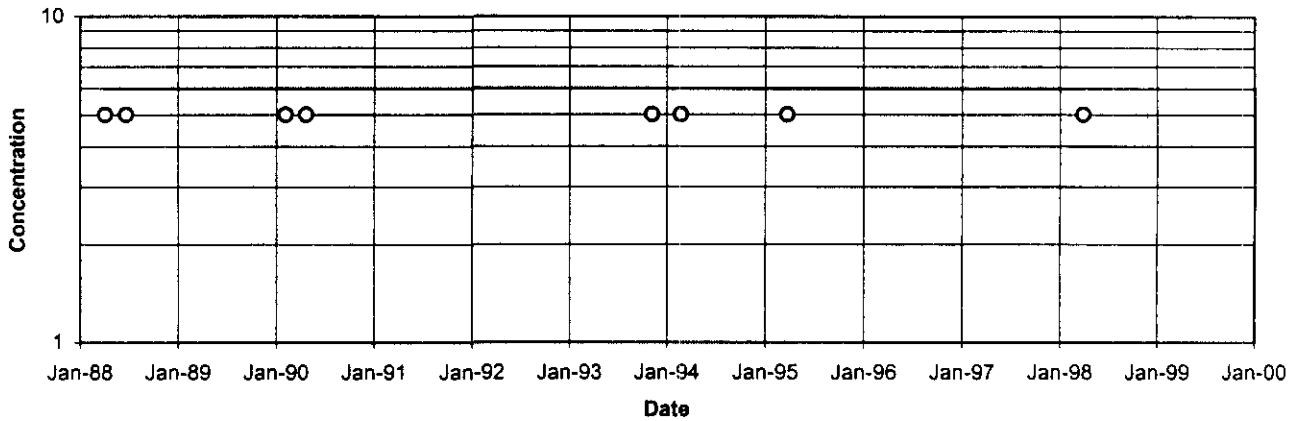
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

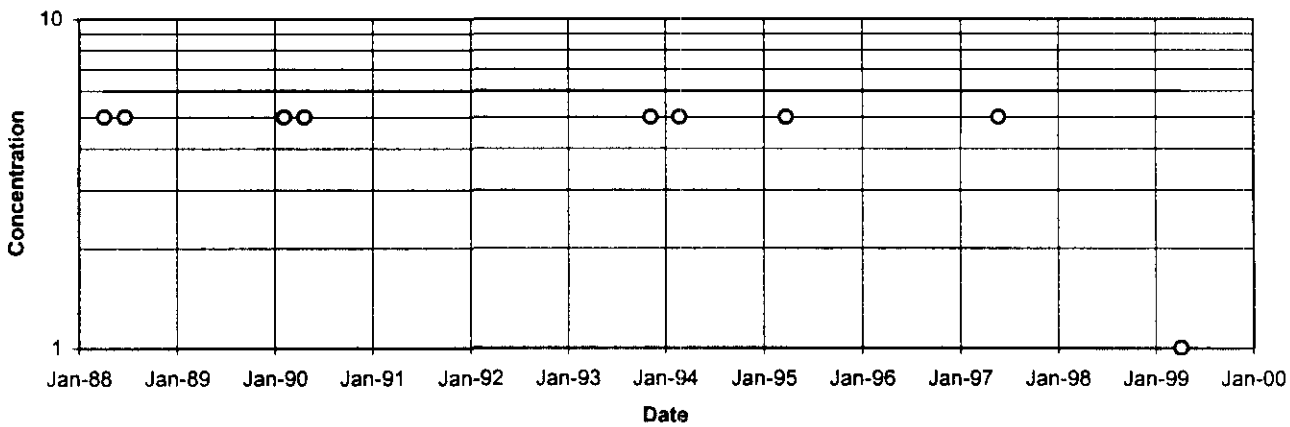
G115



G116



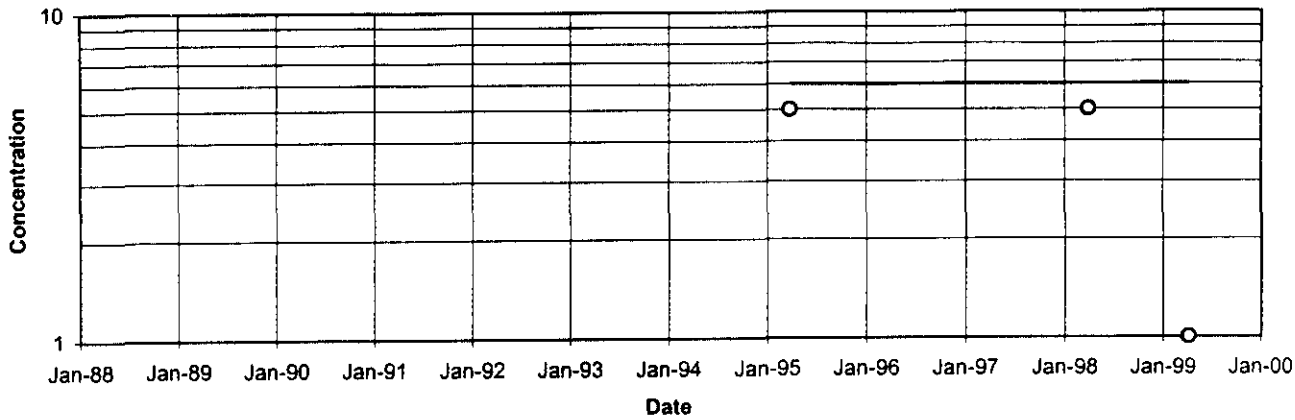
G116A



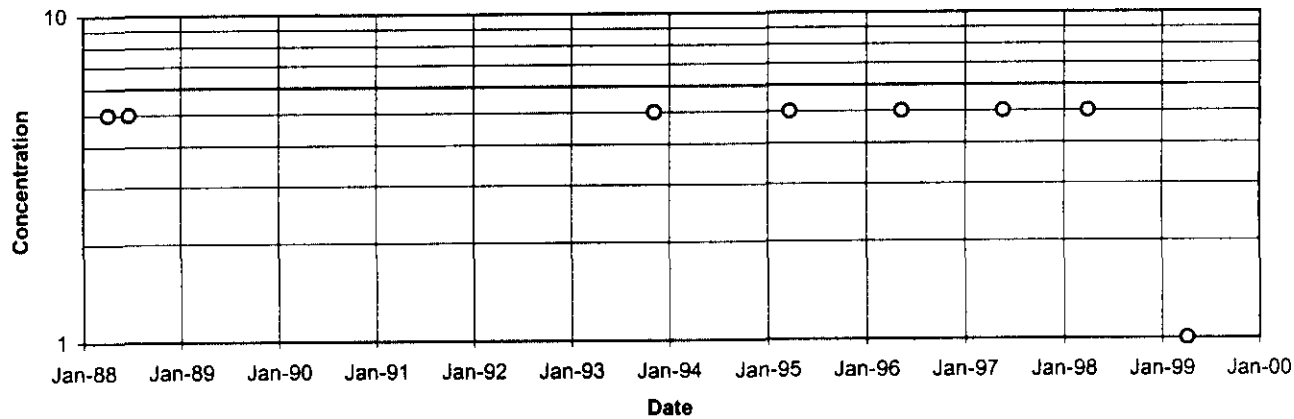
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

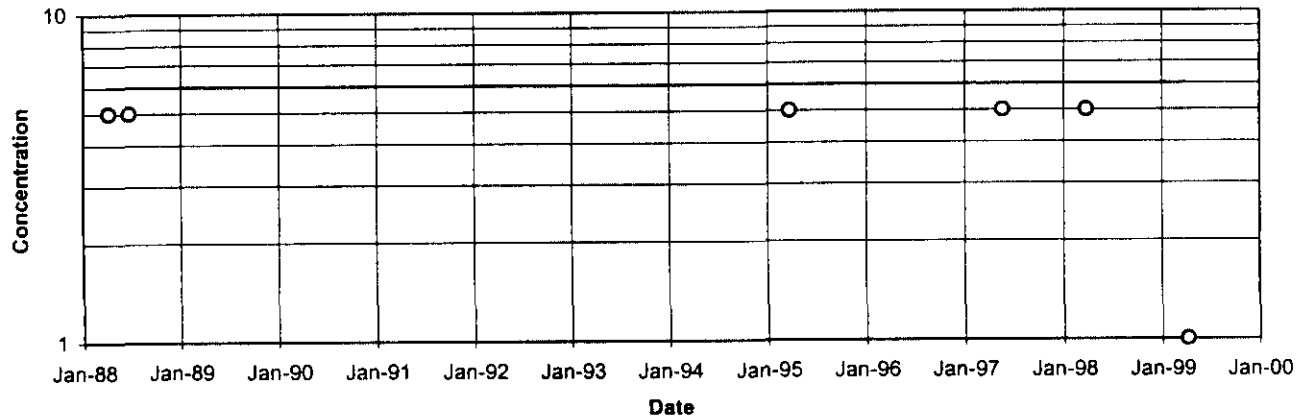
G116D



G117



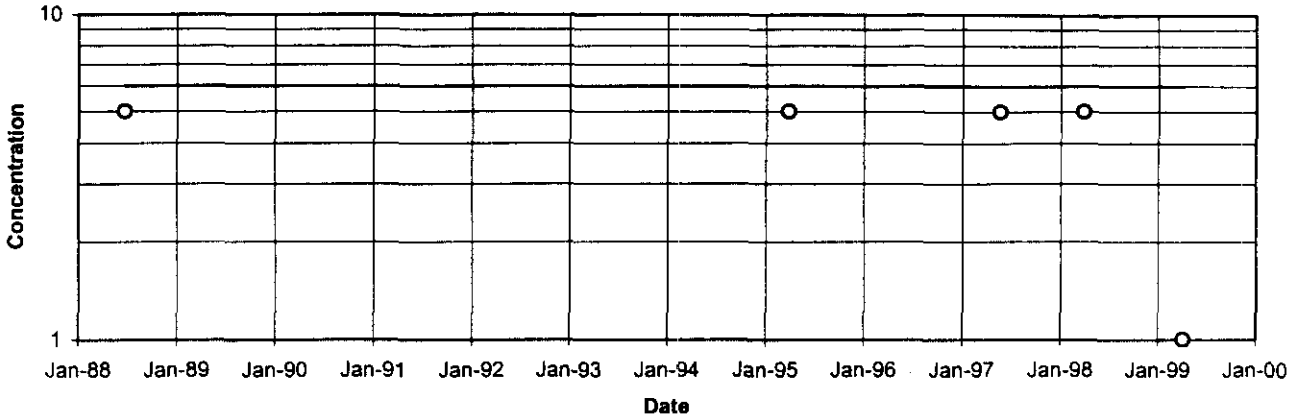
G118A



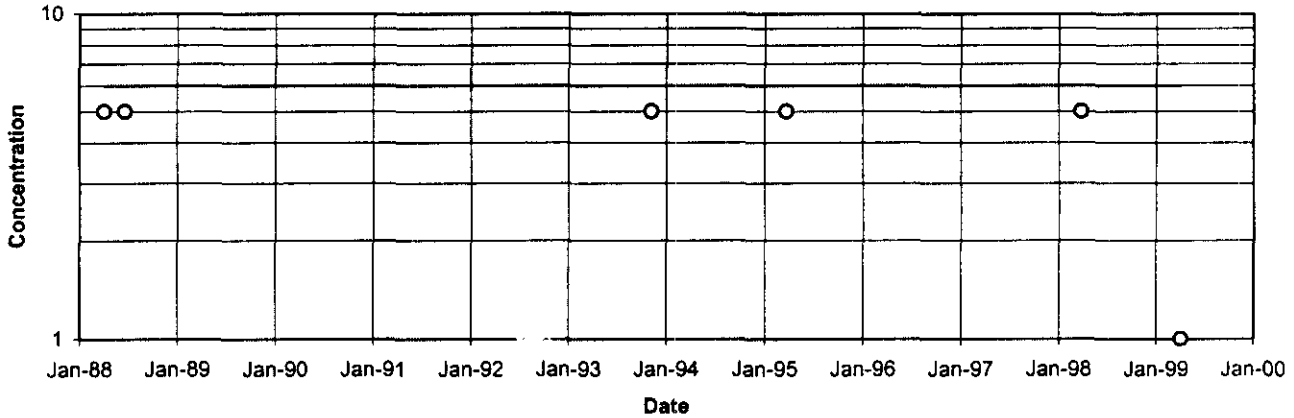
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

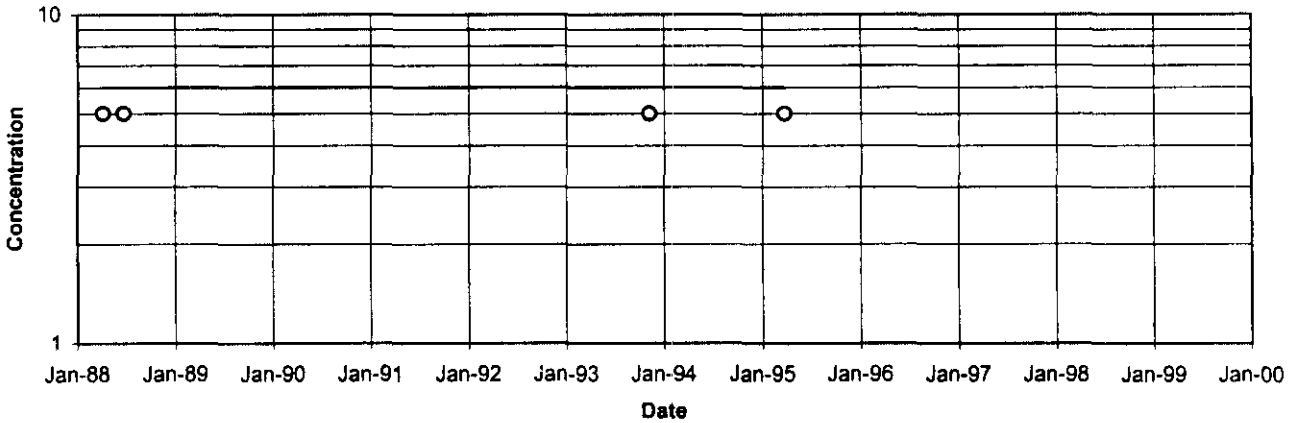
G118R



G119



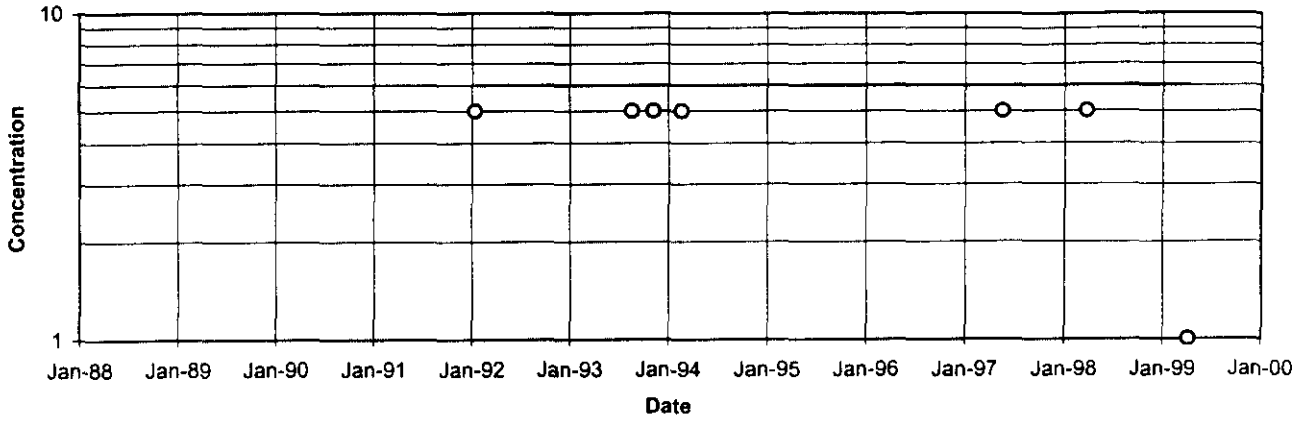
G119A



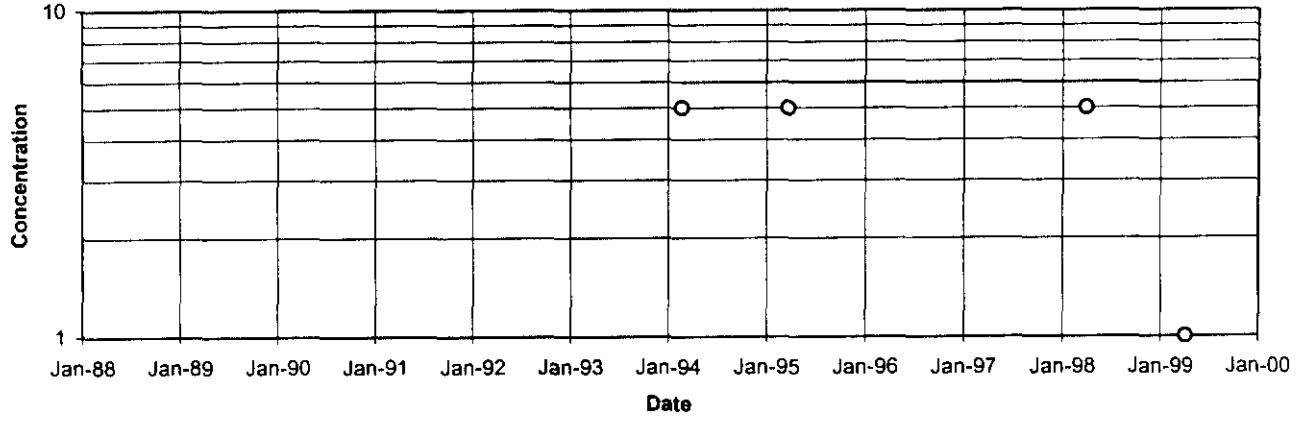
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

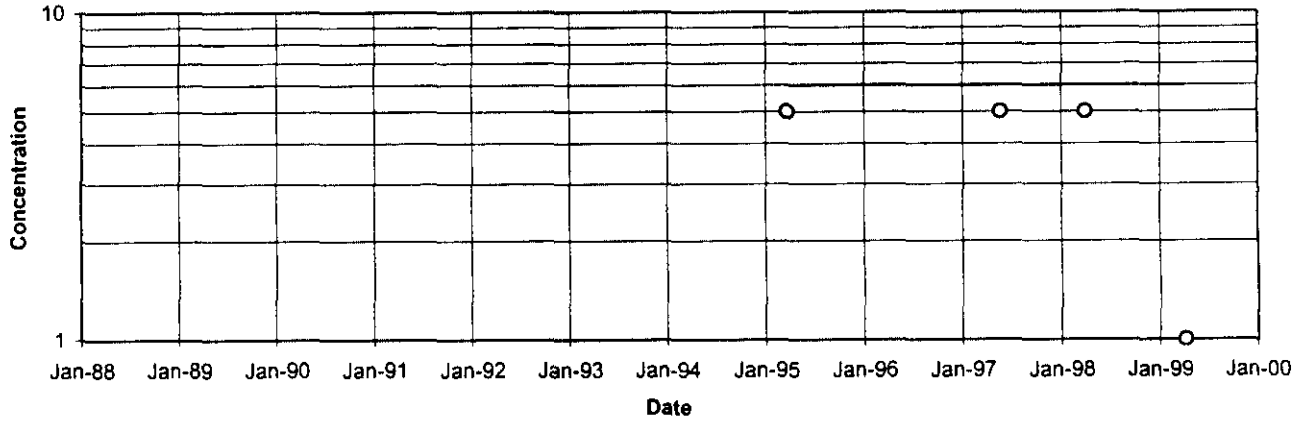
G120B



G130



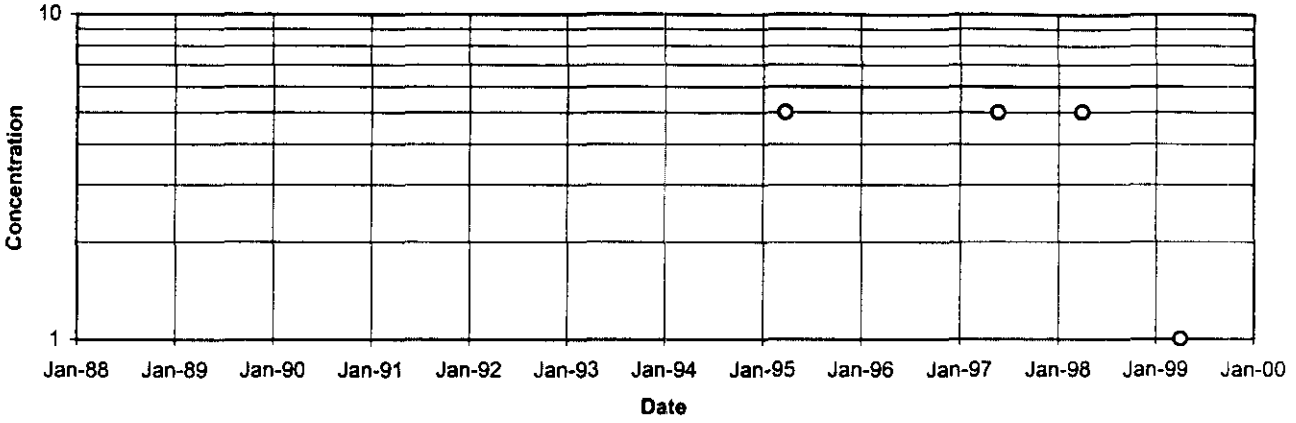
G132



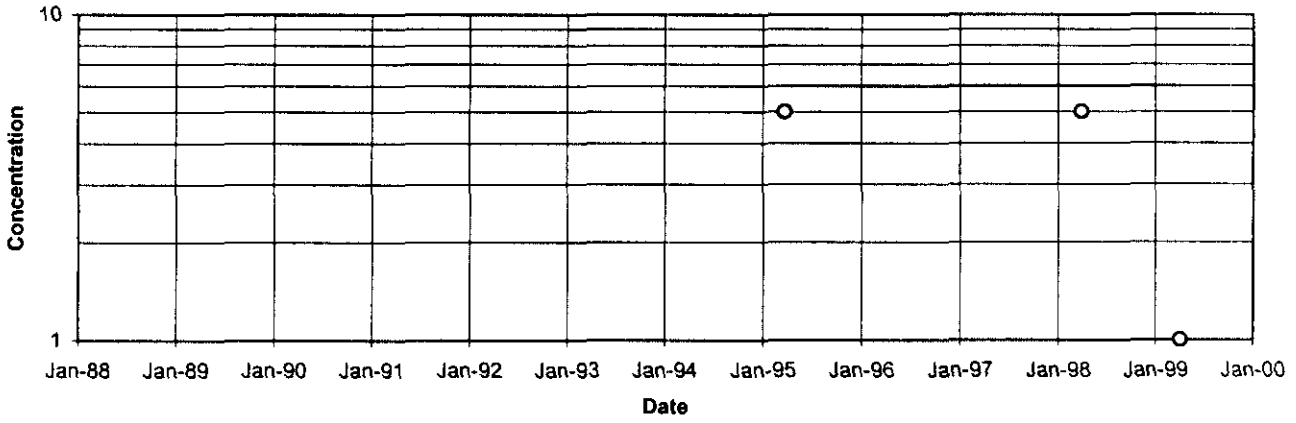
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration ○ NonDetect

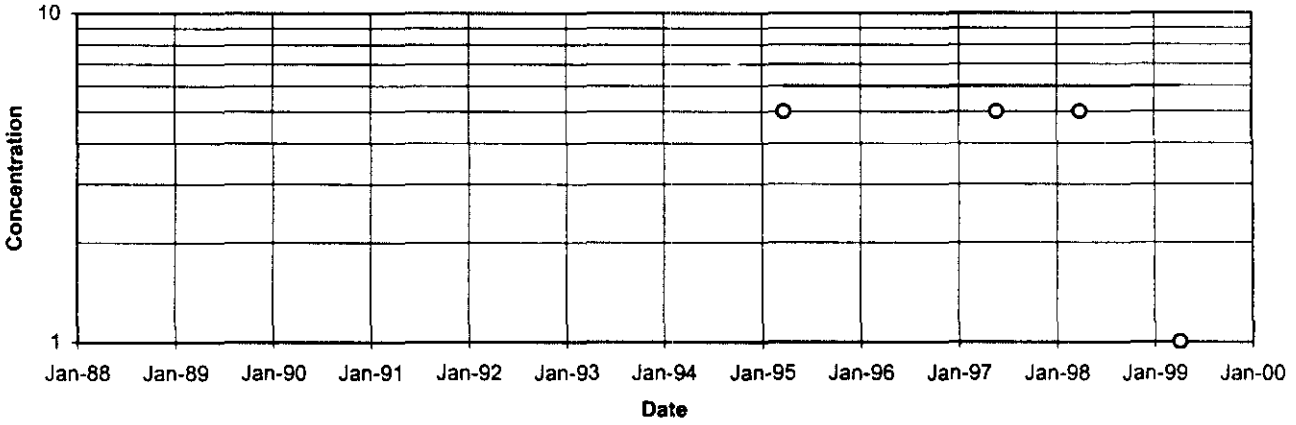
G33D



G33S



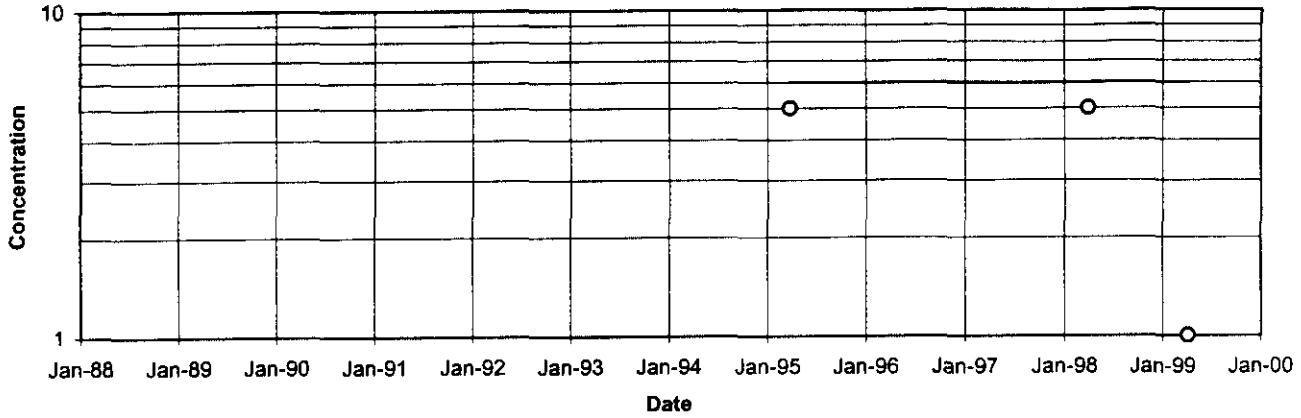
G34D



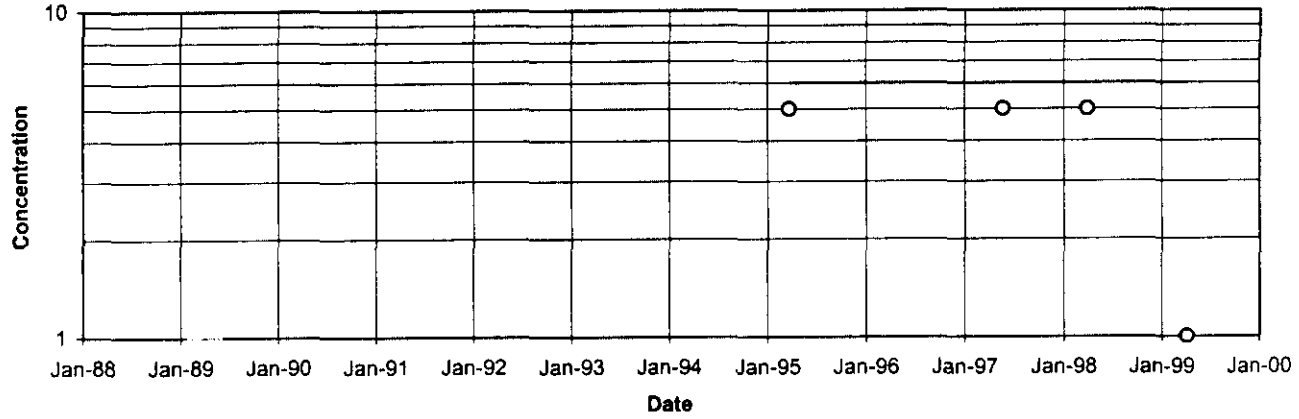
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

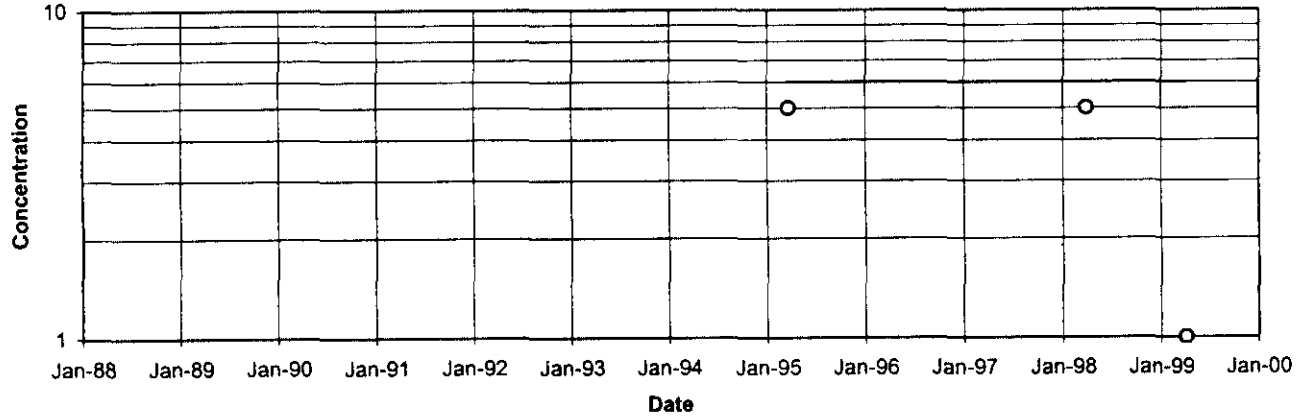
G34S



G35D



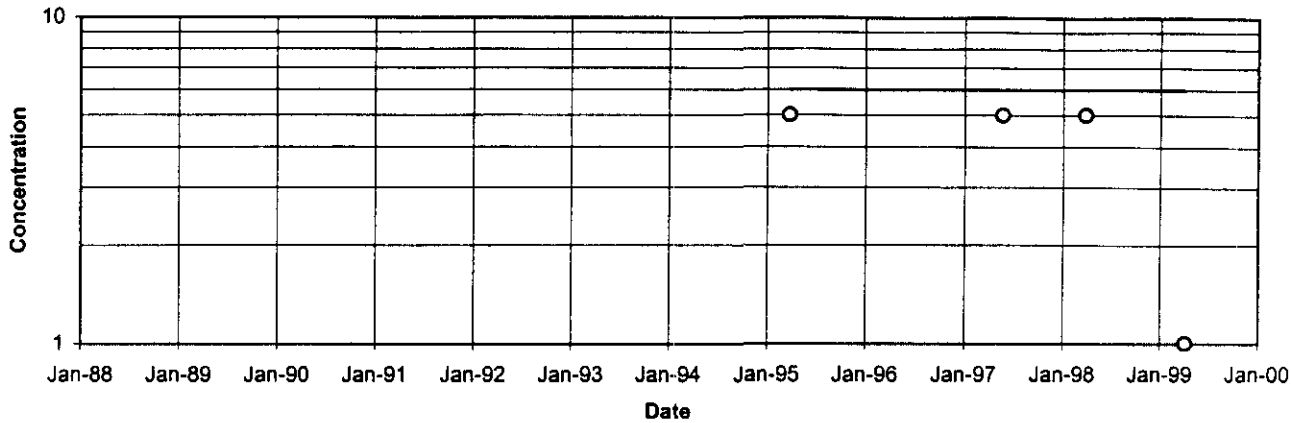
G35S



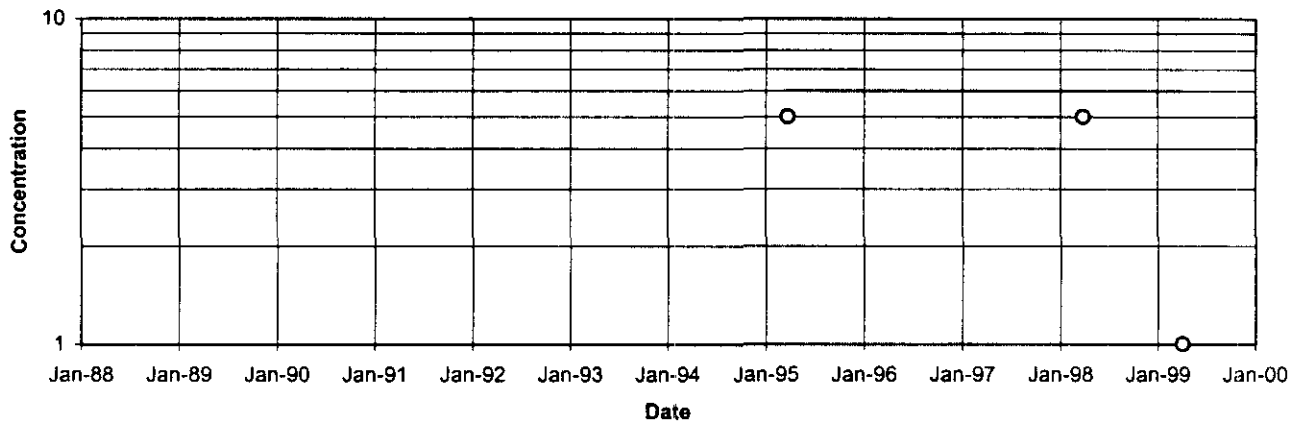
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration ○ NonDetect

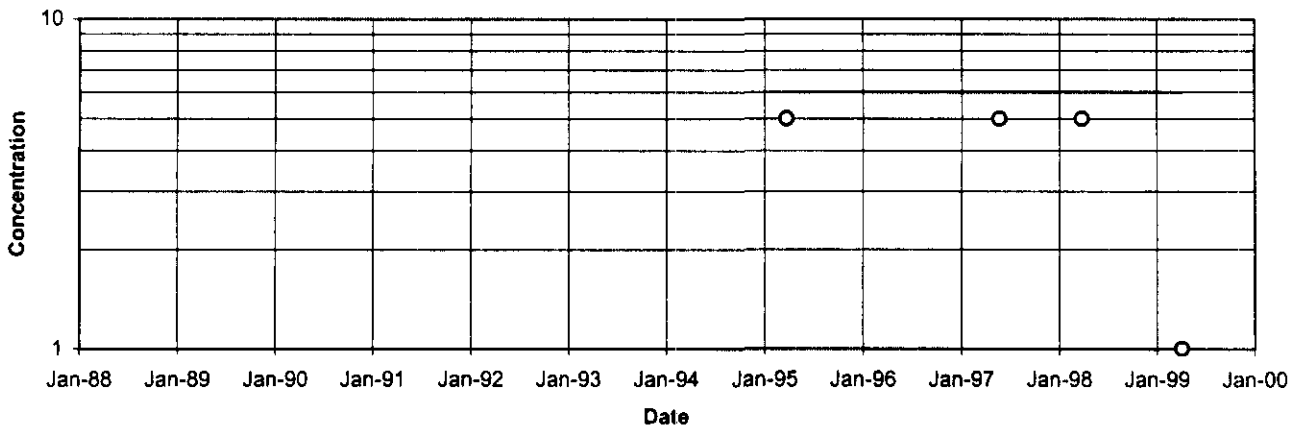
G36



G37D



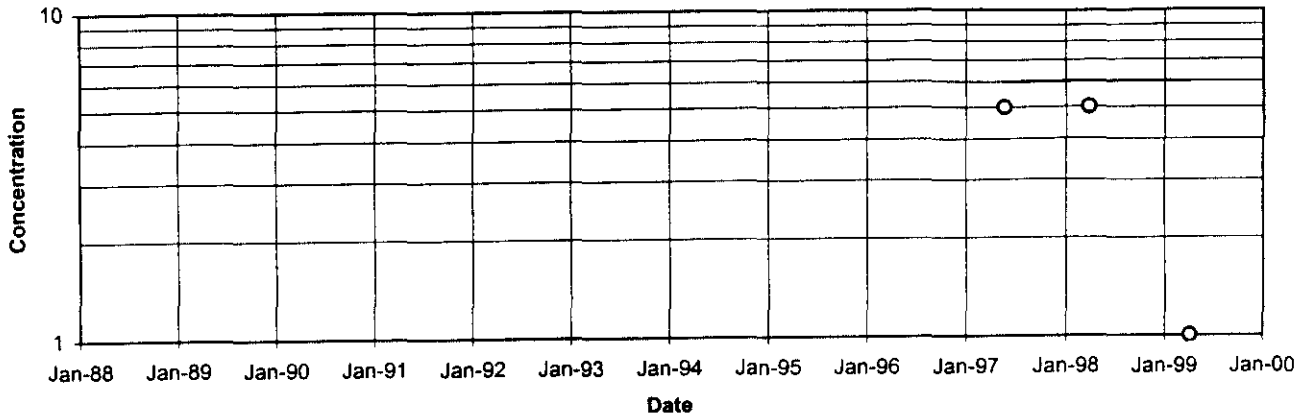
G37S



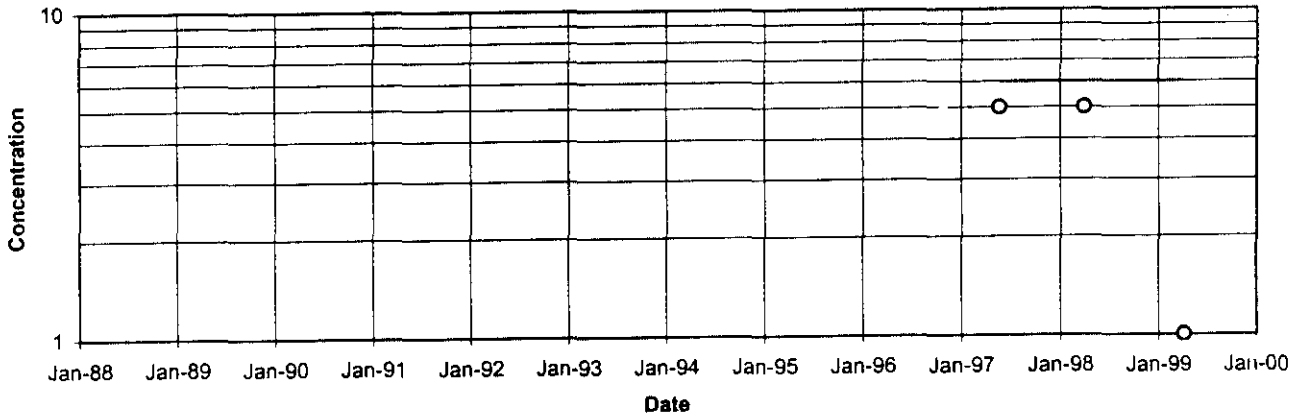
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

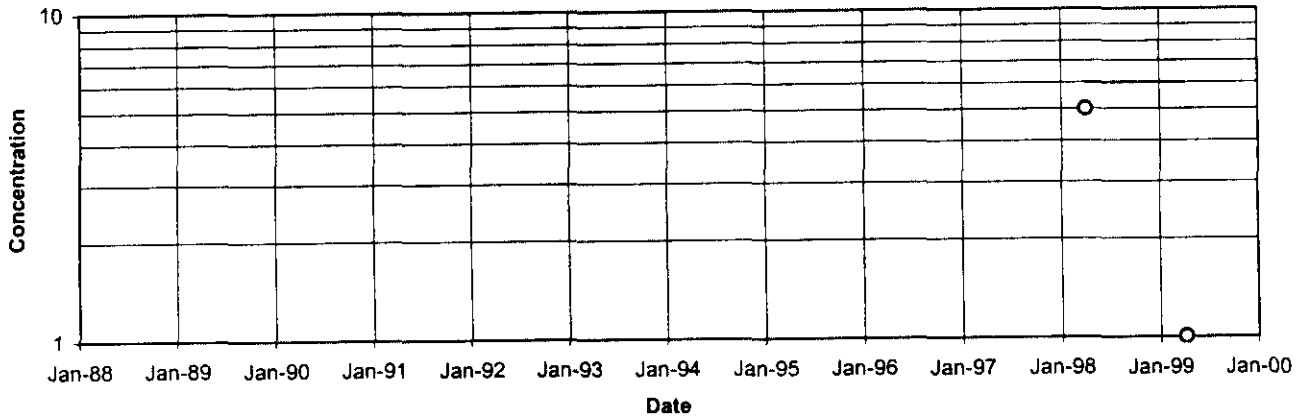
G38



G39



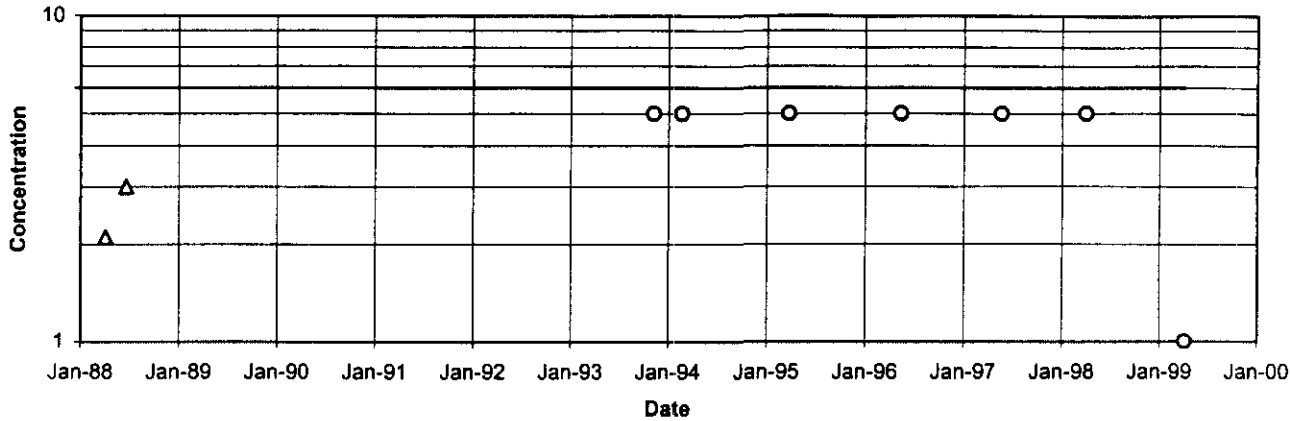
G40



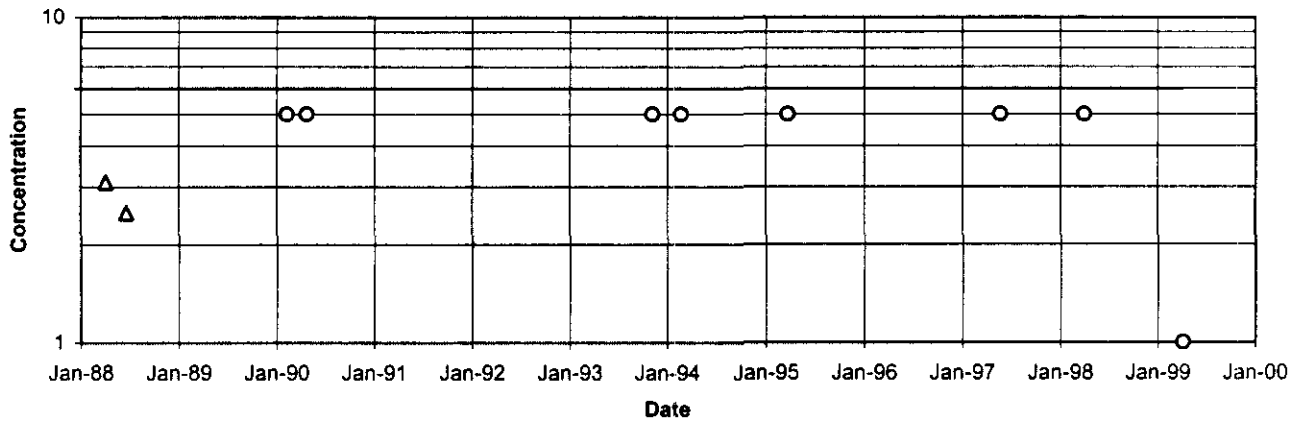
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

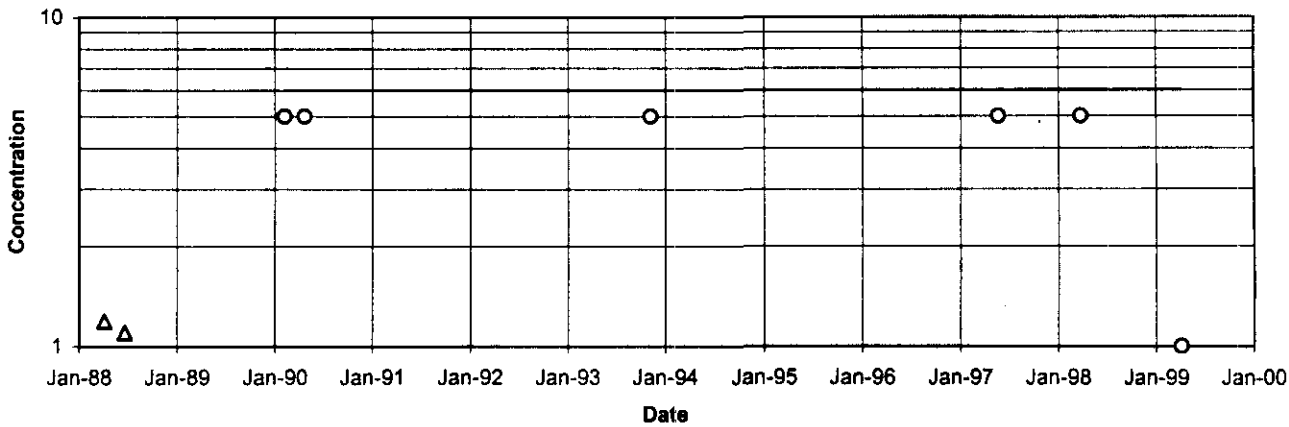
MW106



P1



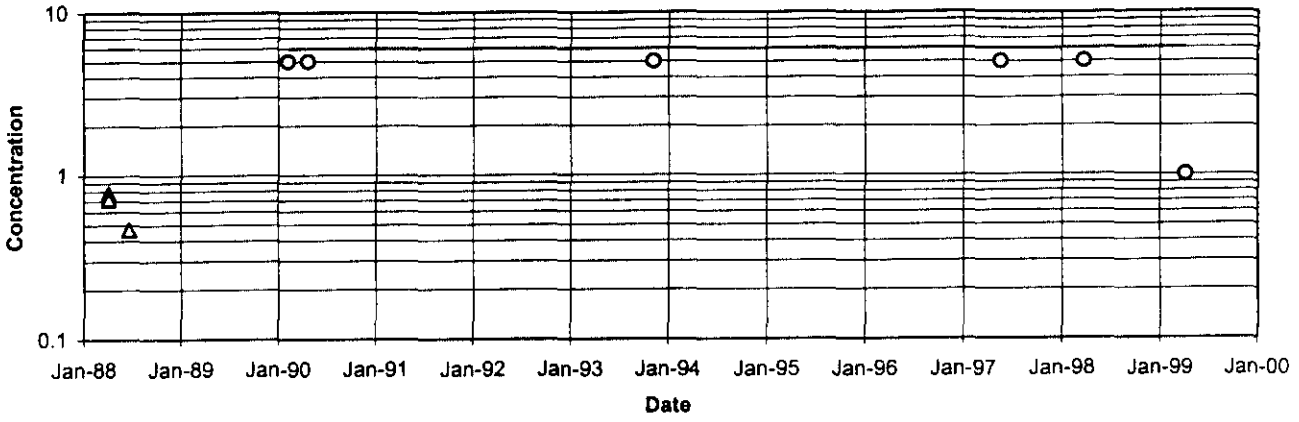
P3R



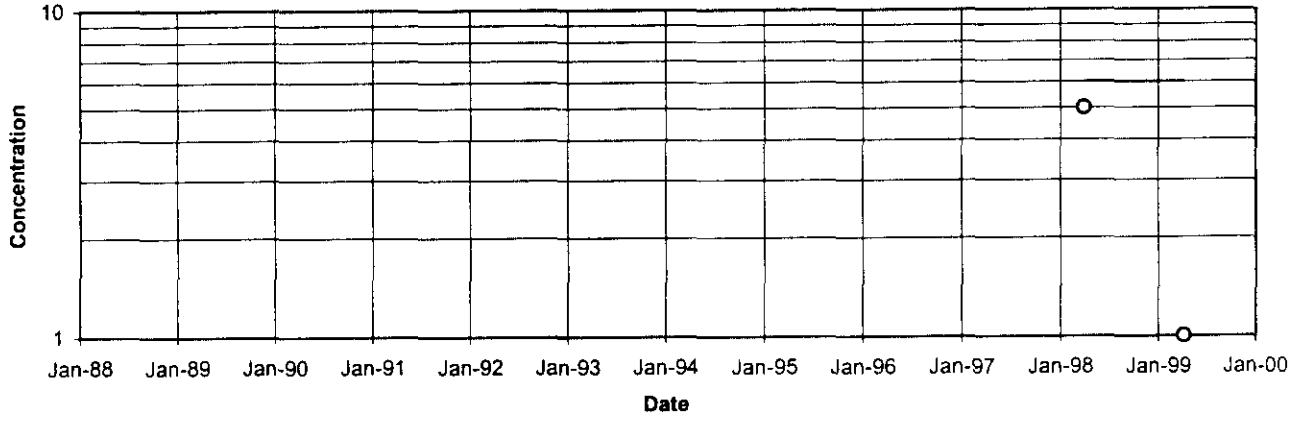
1,2-Dichloropropane (ug/L)

AGQS Δ Concentration O NonDetect

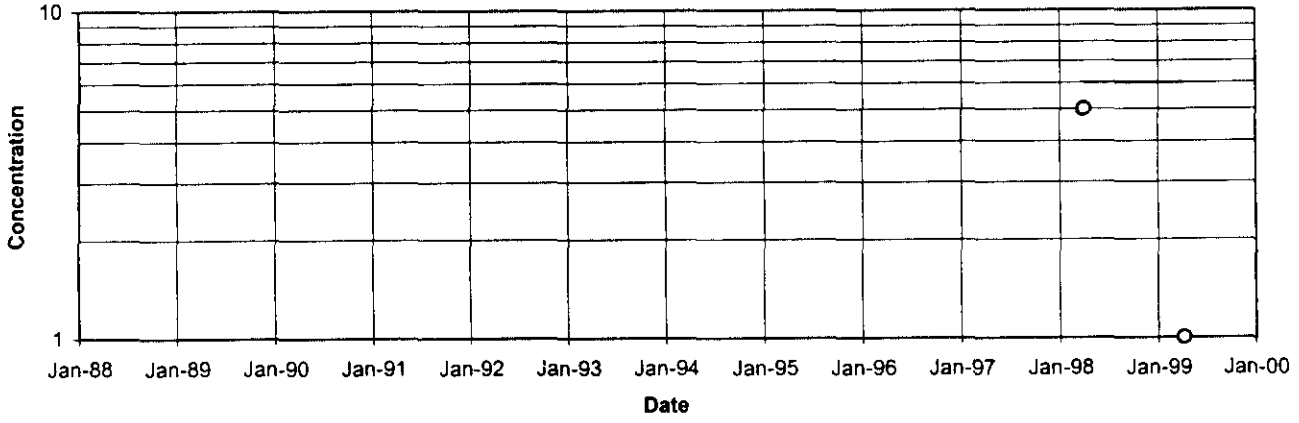
P4R



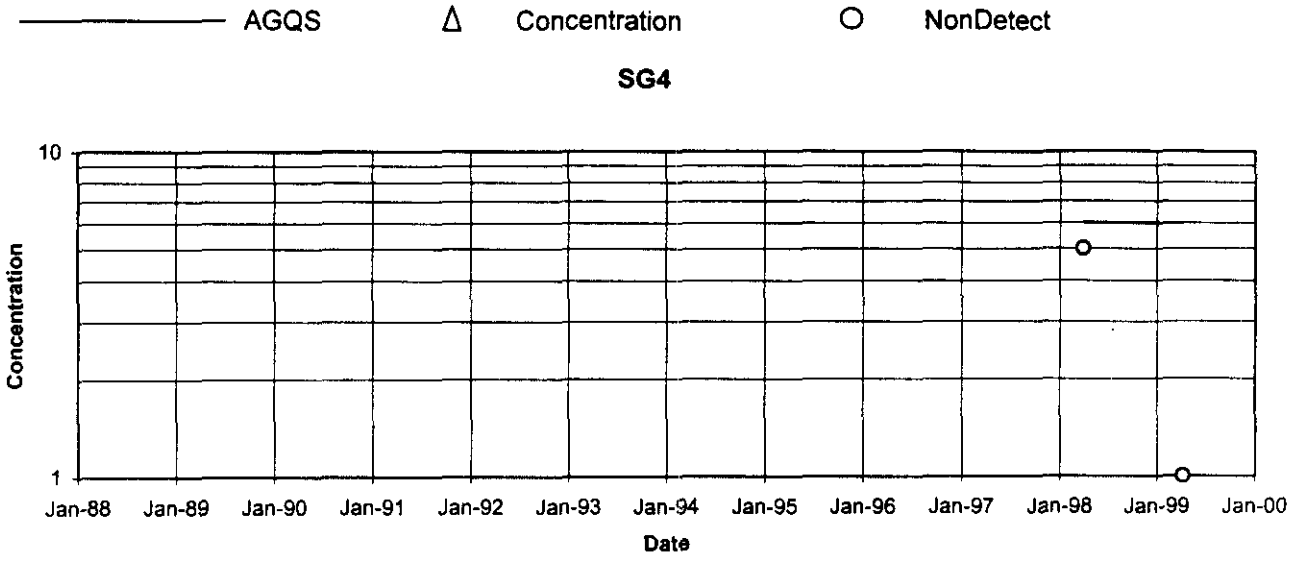
SG1



SG3



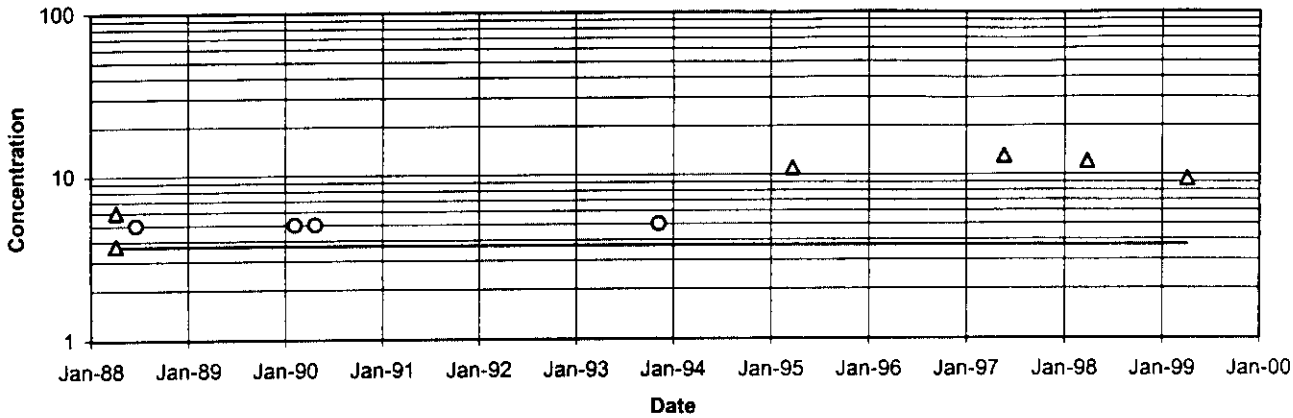
1,2-Dichloropropane (ug/L)



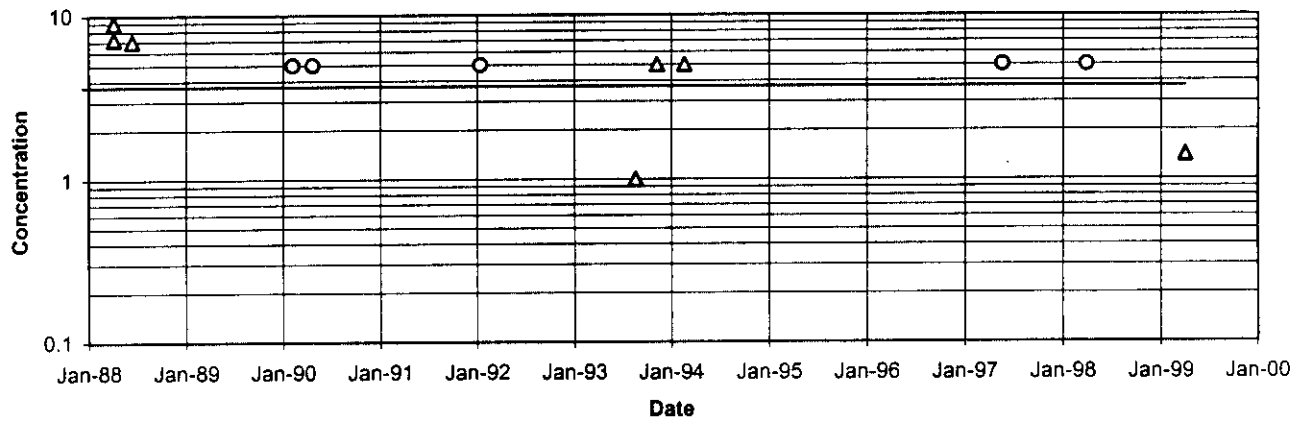
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

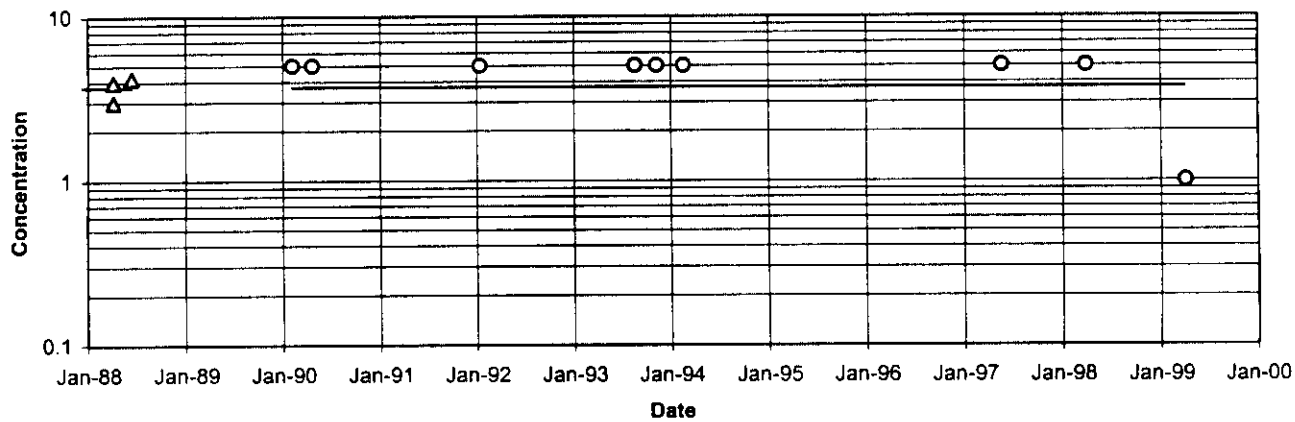
B15R



G109



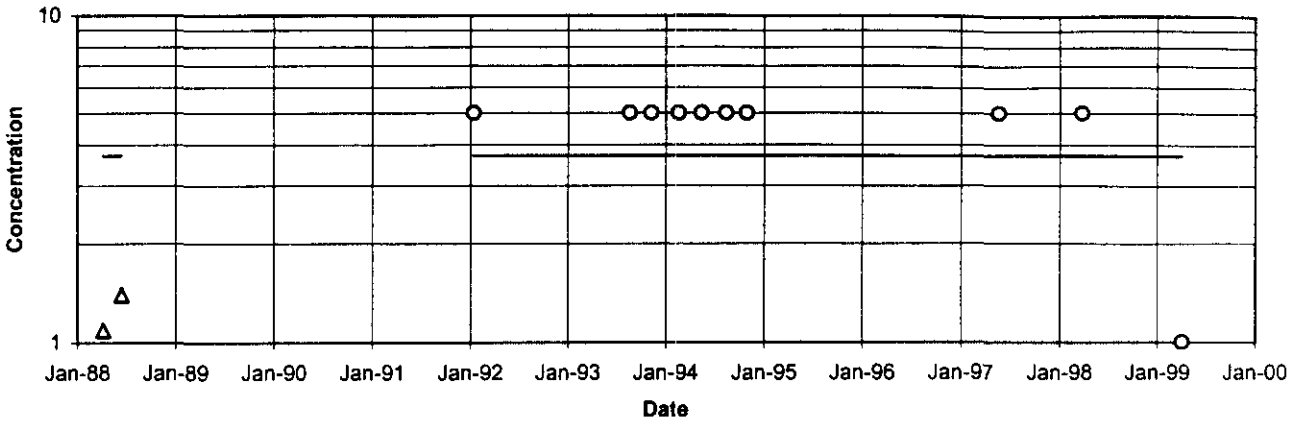
G109A



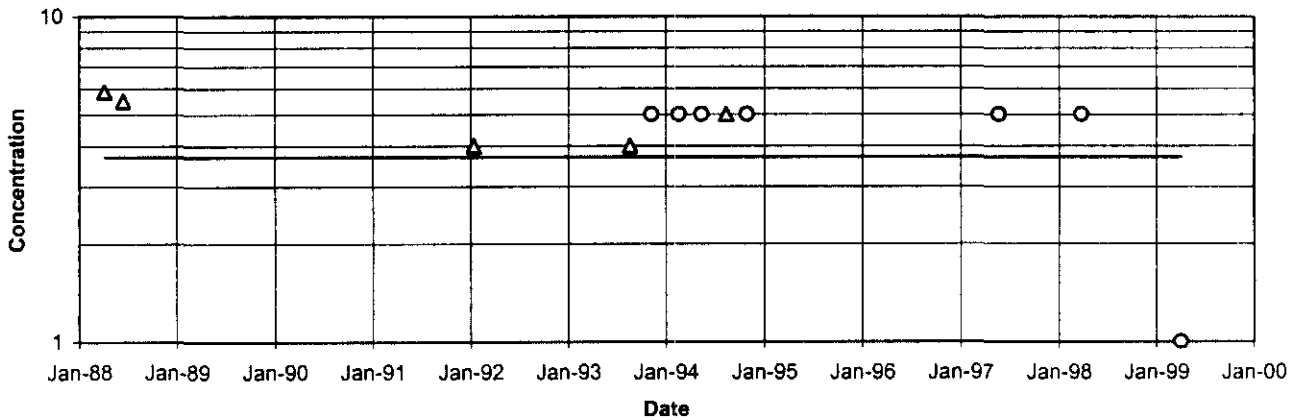
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

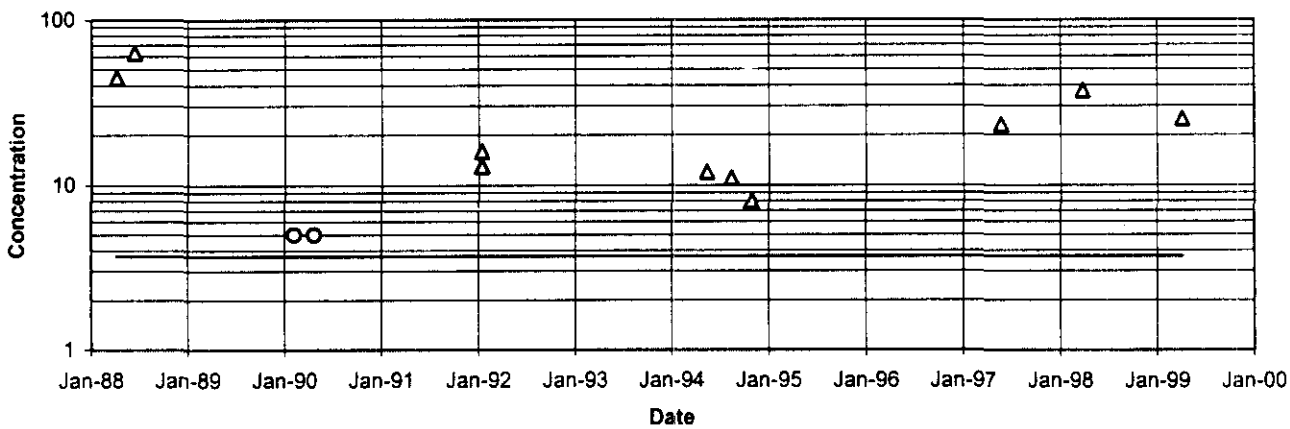
G113



G113A



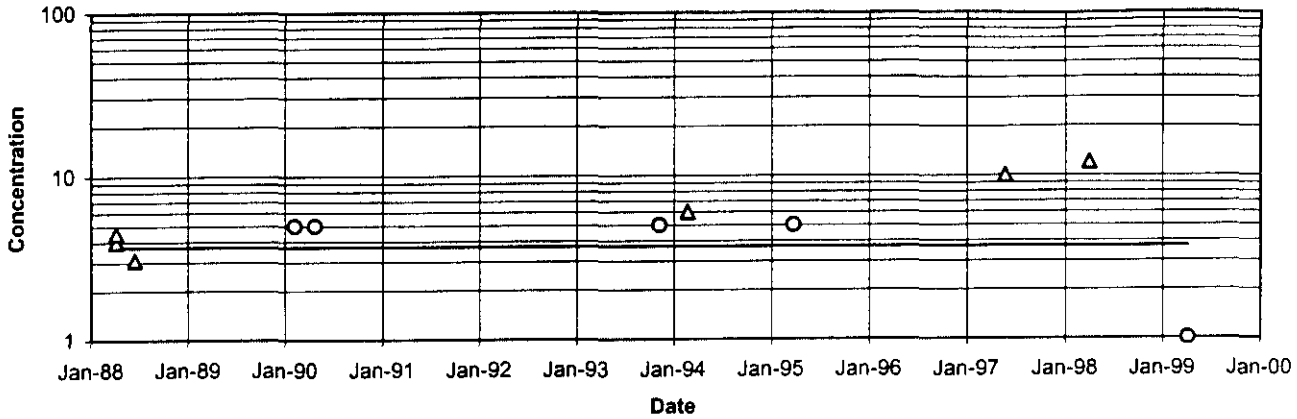
G114



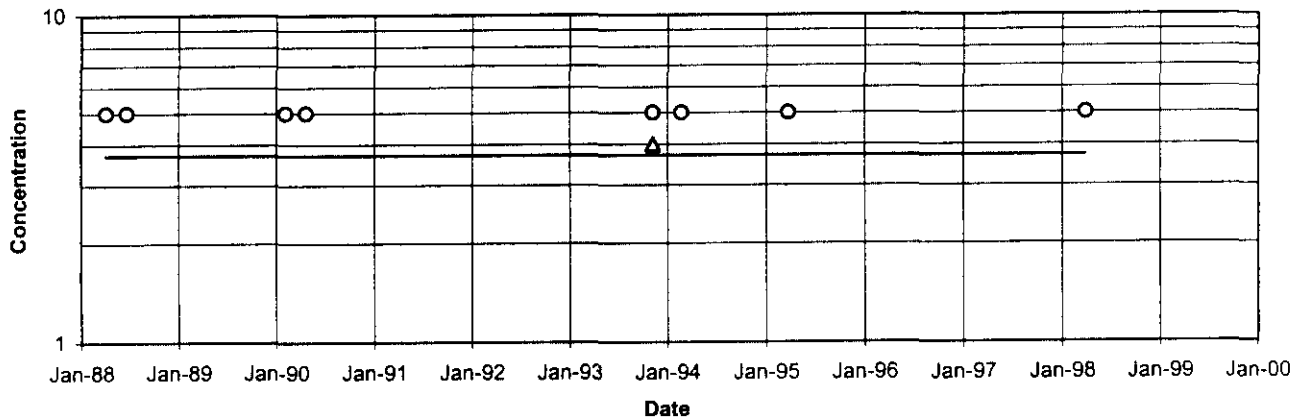
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

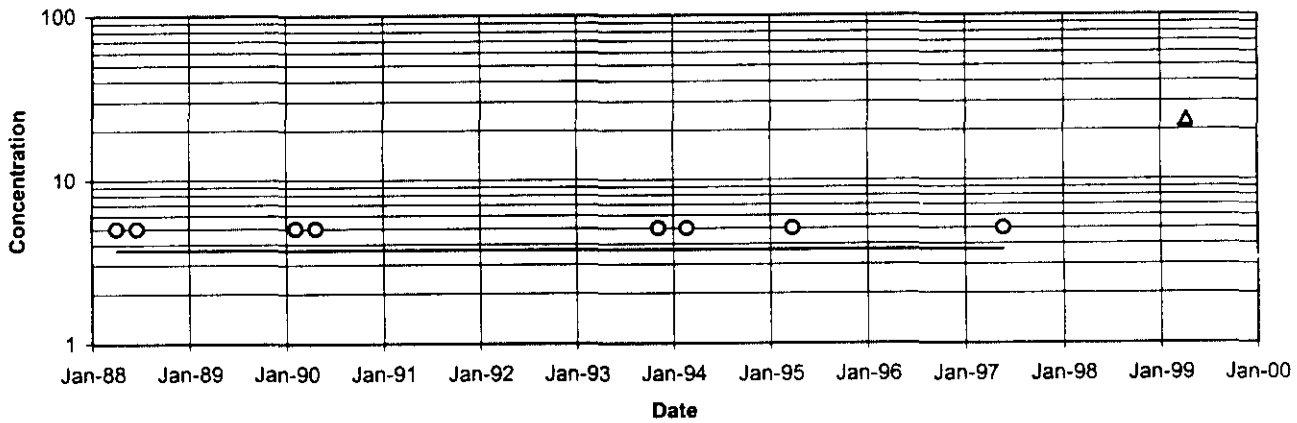
G115



G116



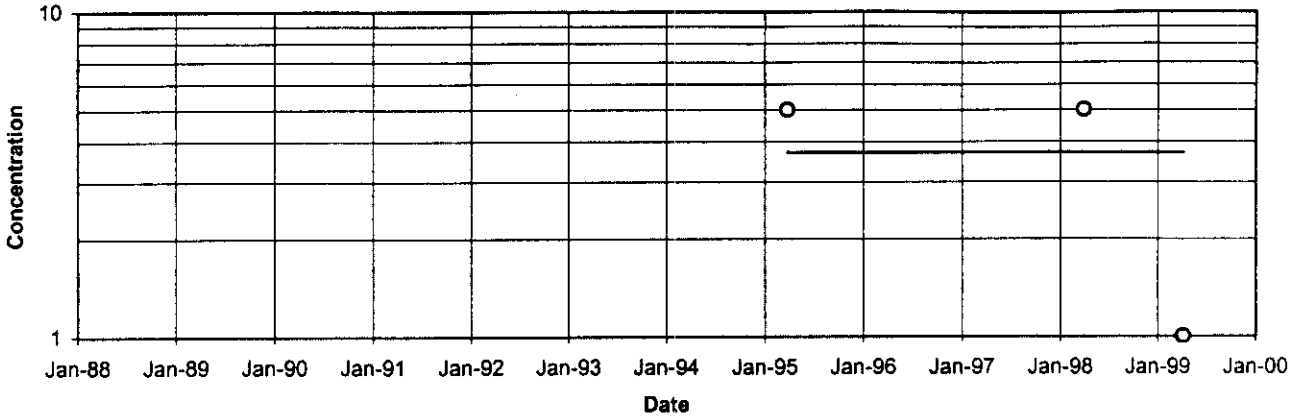
G116A



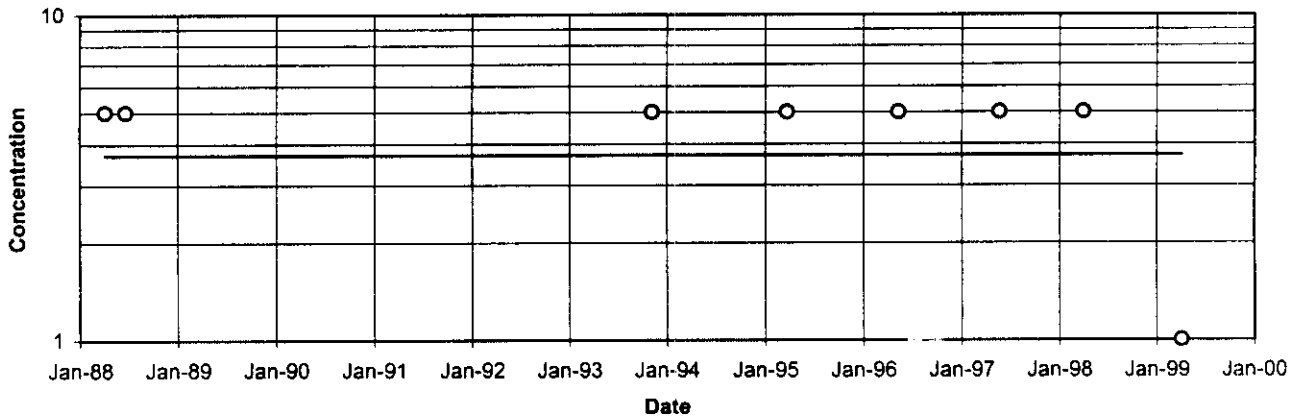
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

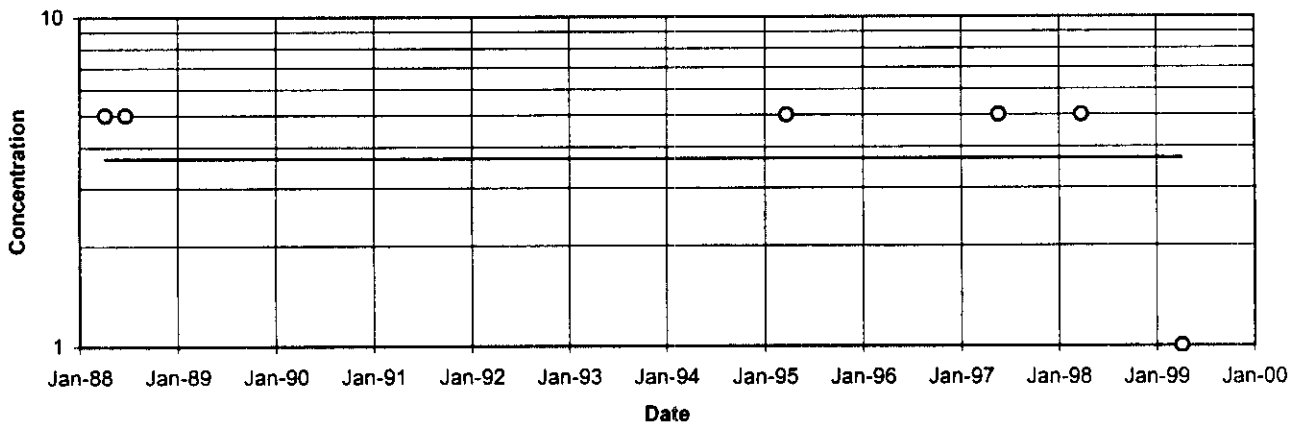
G116D



G117



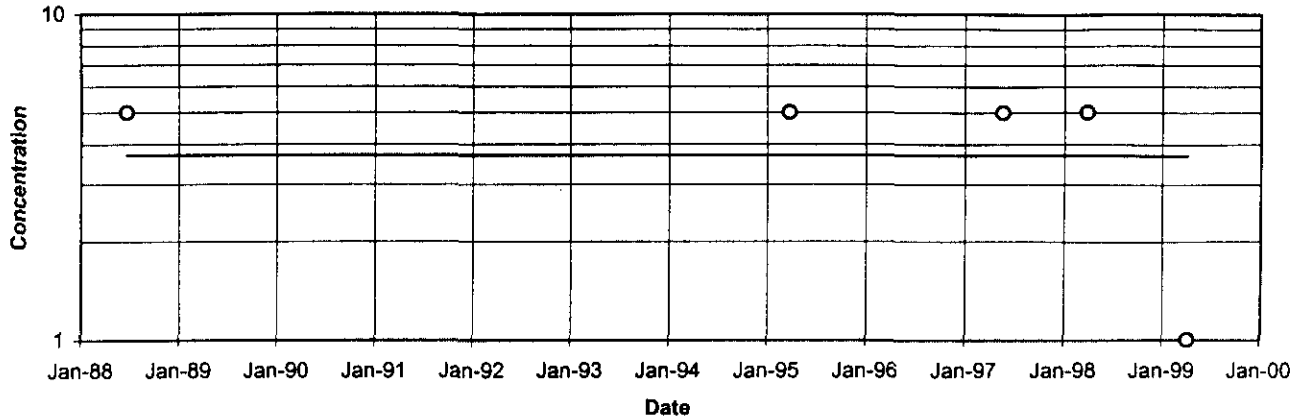
G118A



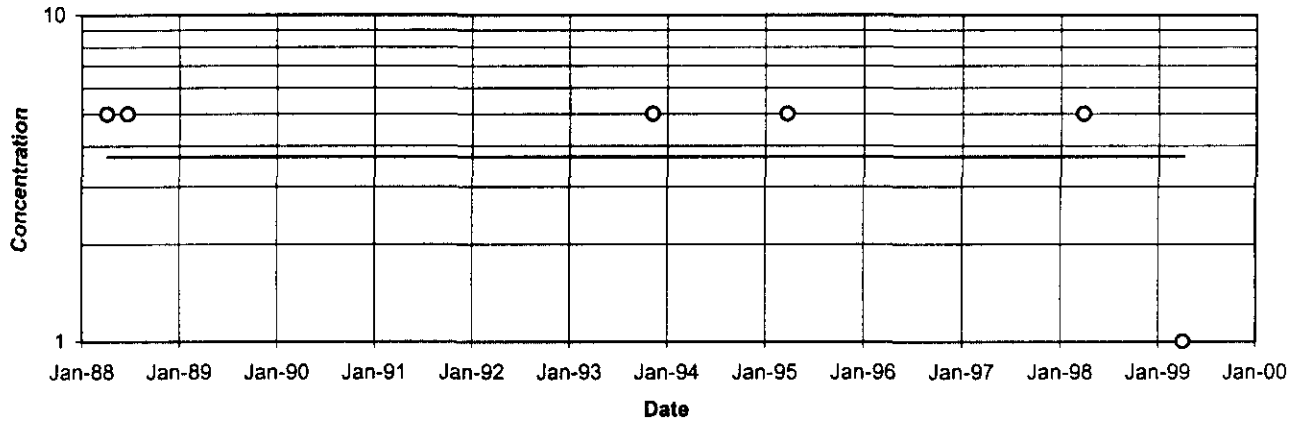
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

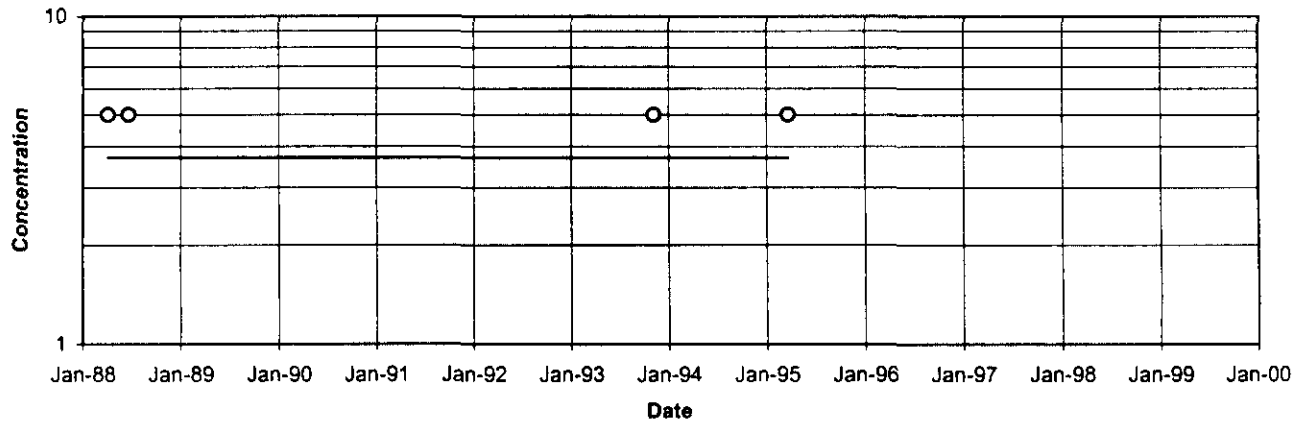
G118R



G119



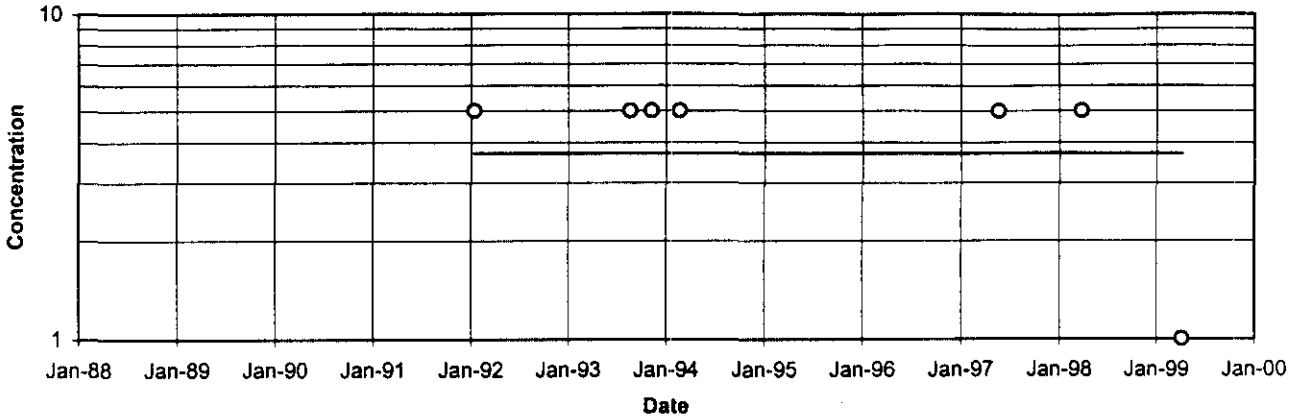
G119A



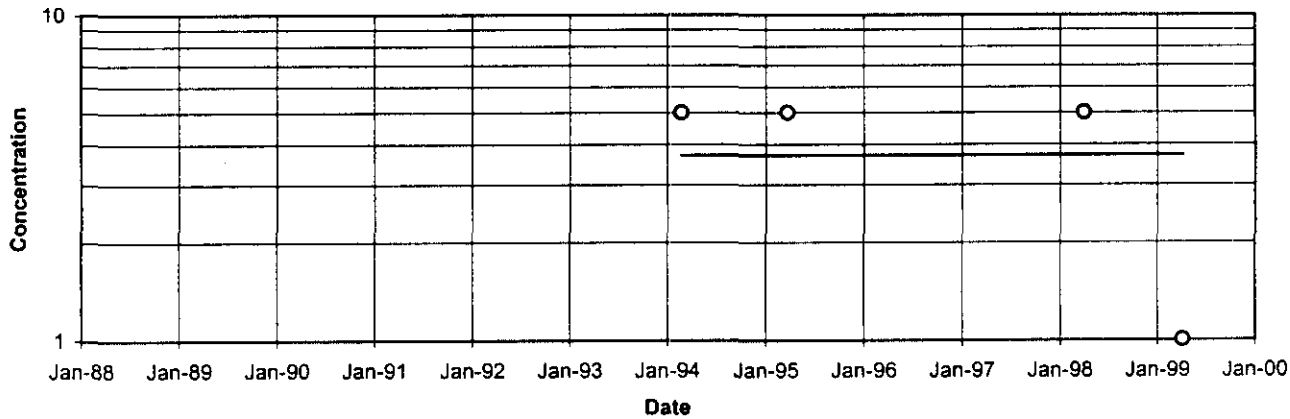
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

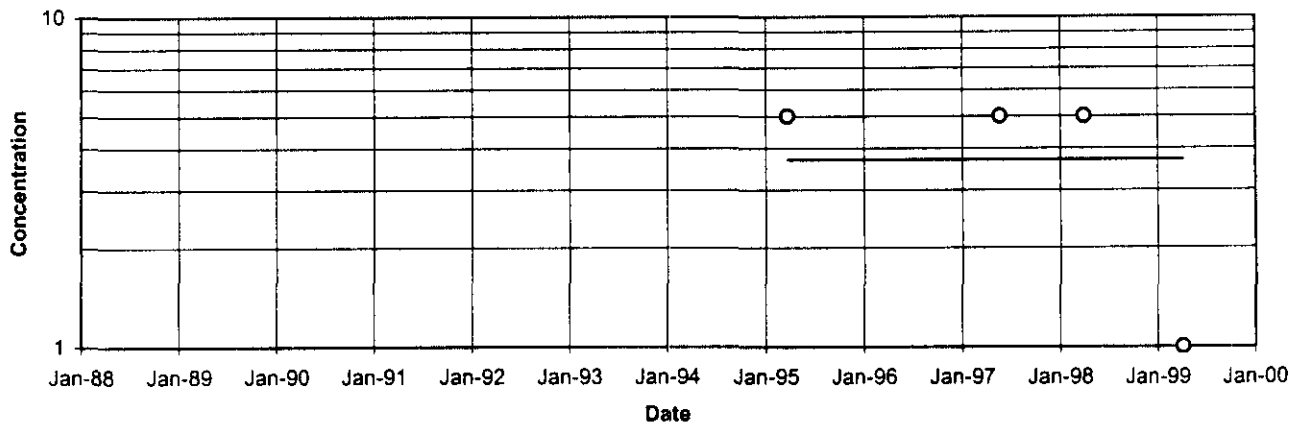
G120B



G130



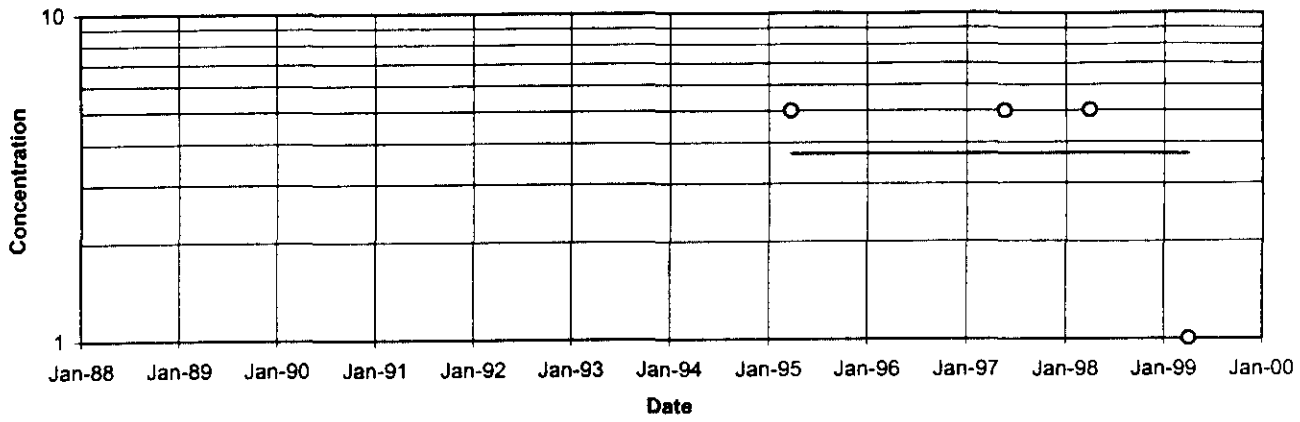
G132



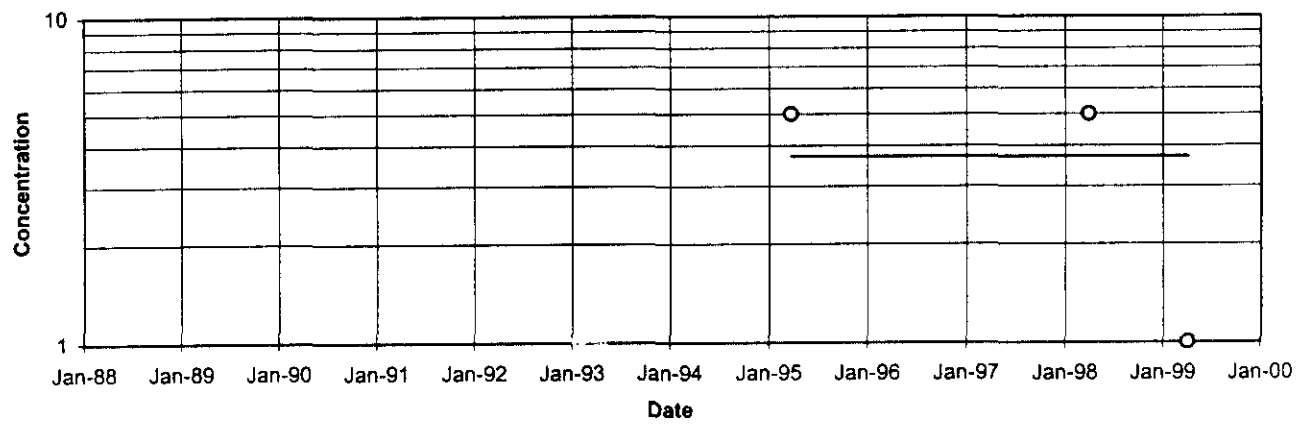
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

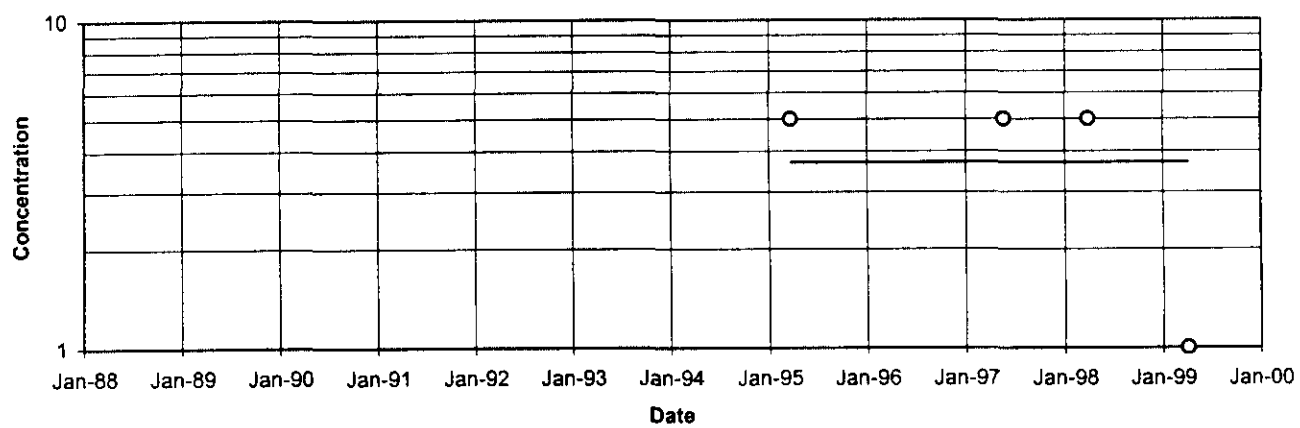
G33D



G33S



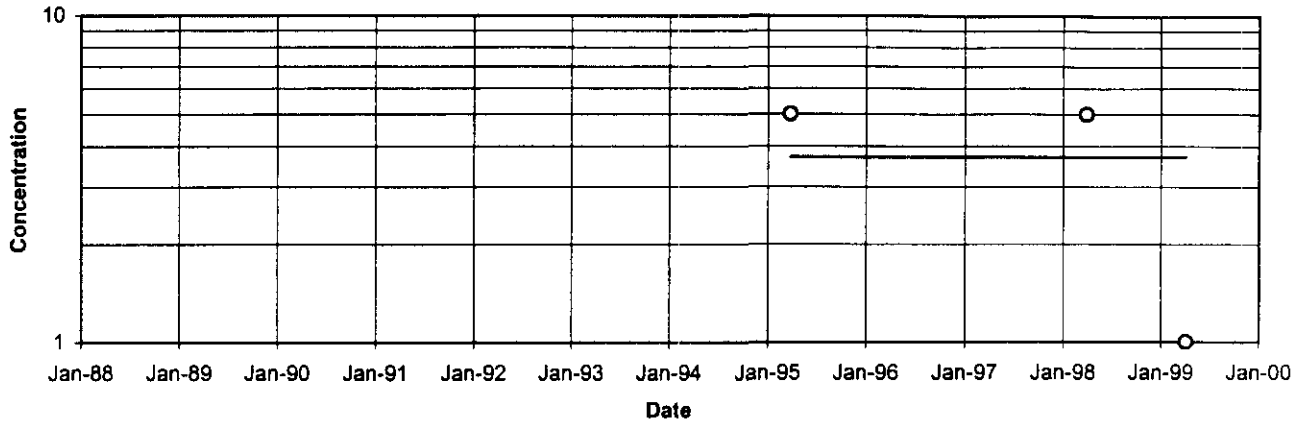
G34D



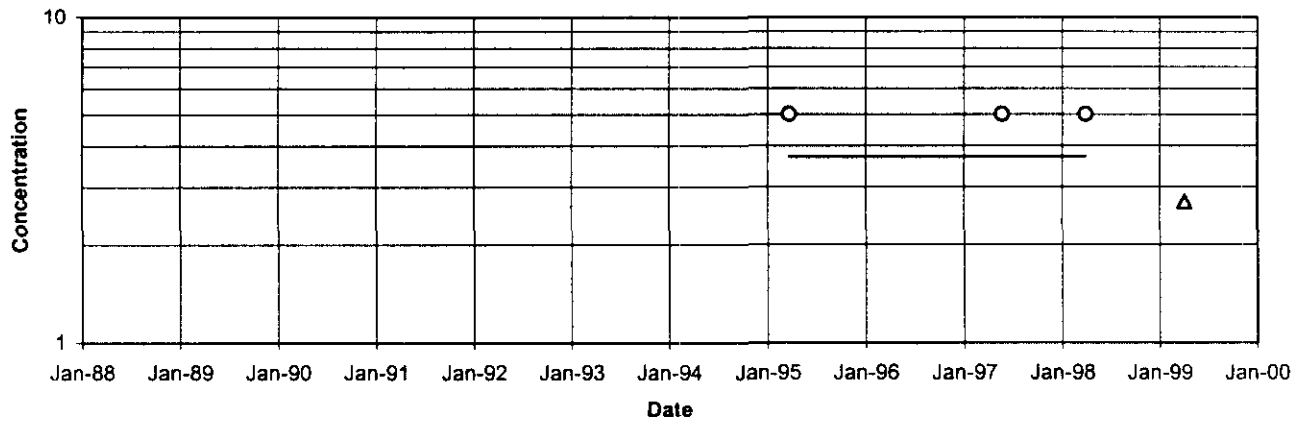
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

G34S



G35D



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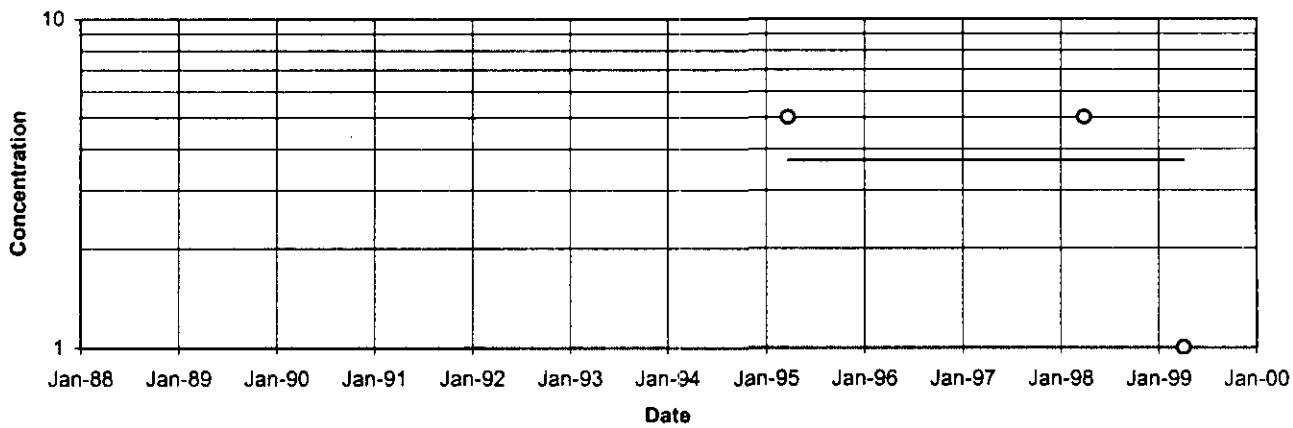
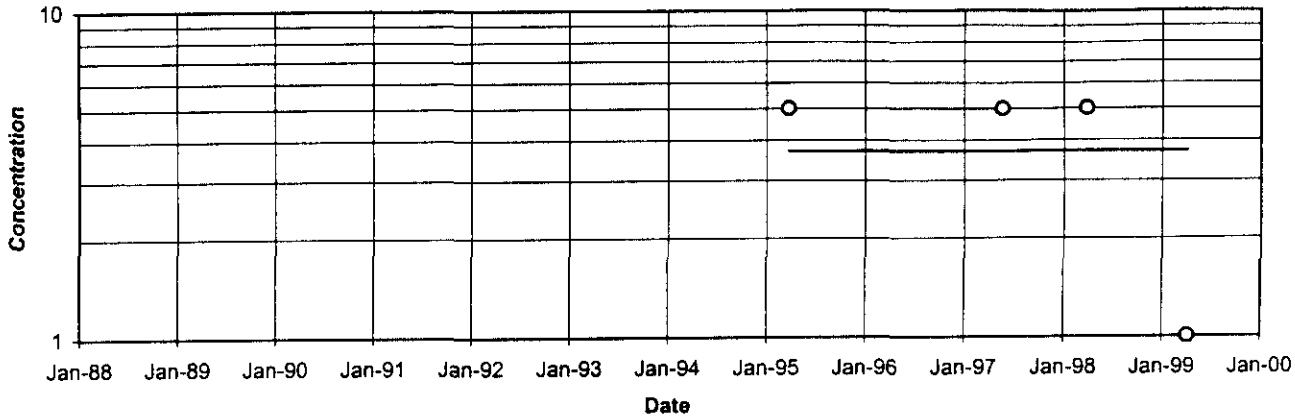


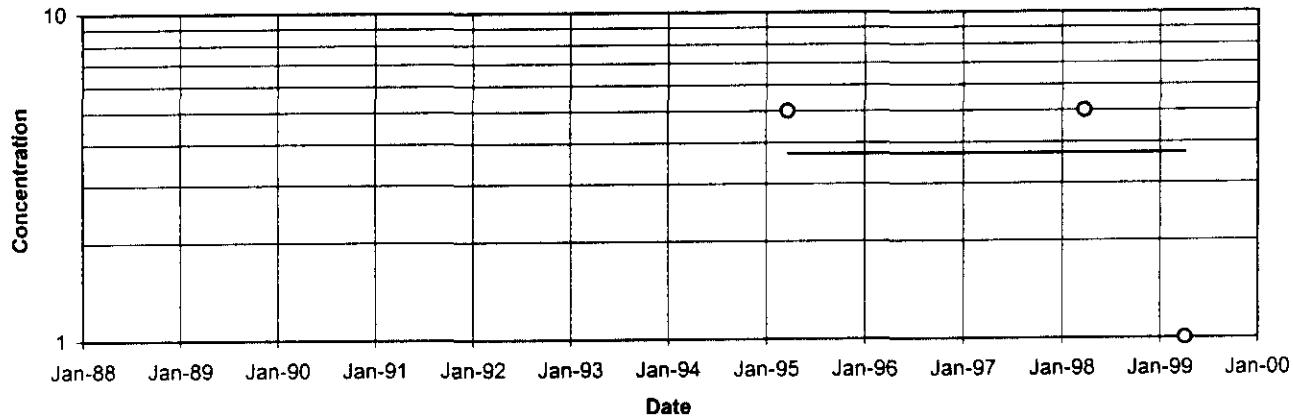
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

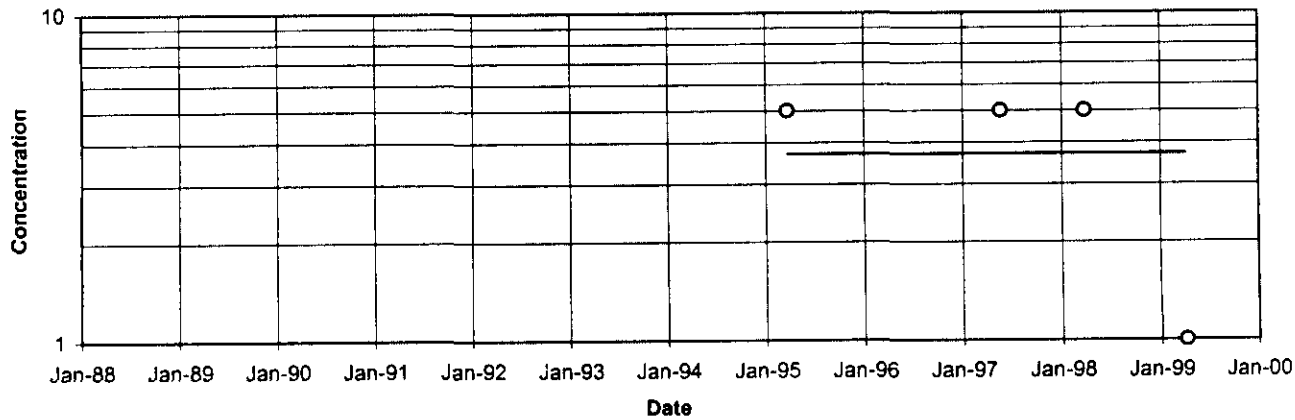
G36



G37D



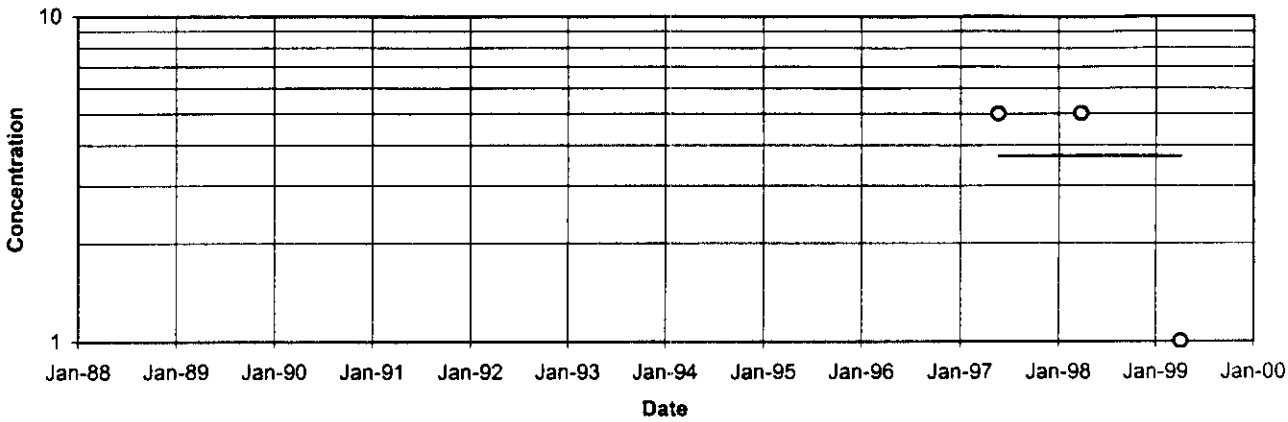
G37S



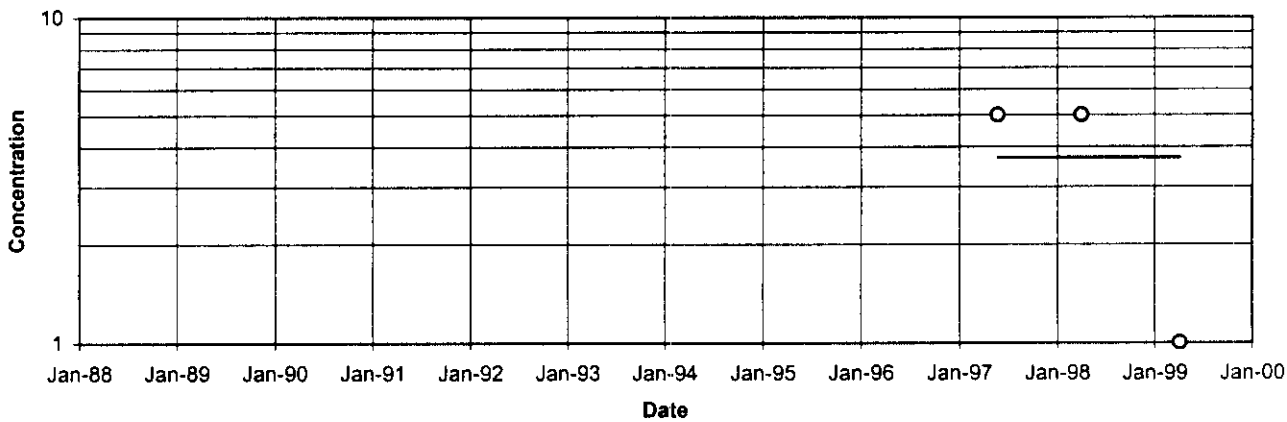
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

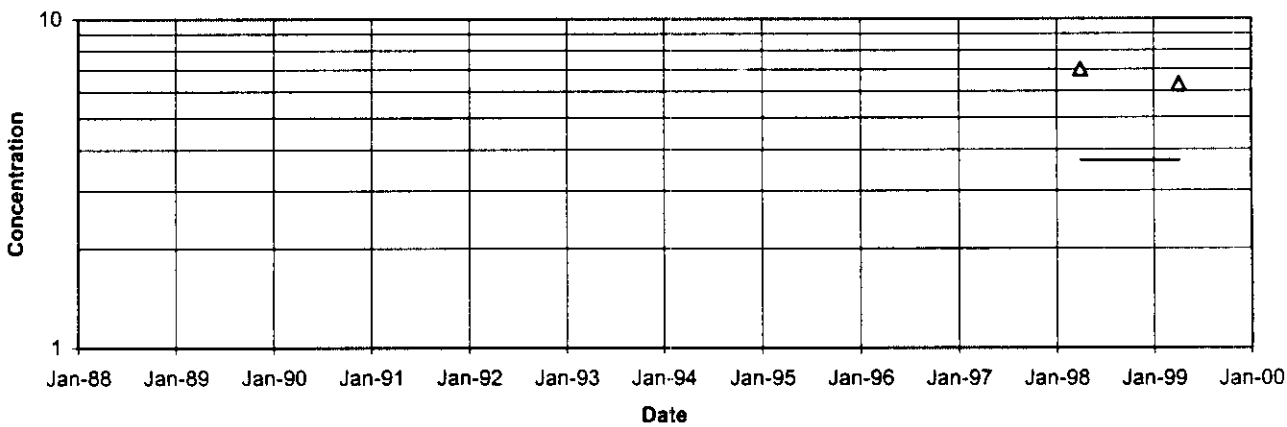
G38



G39



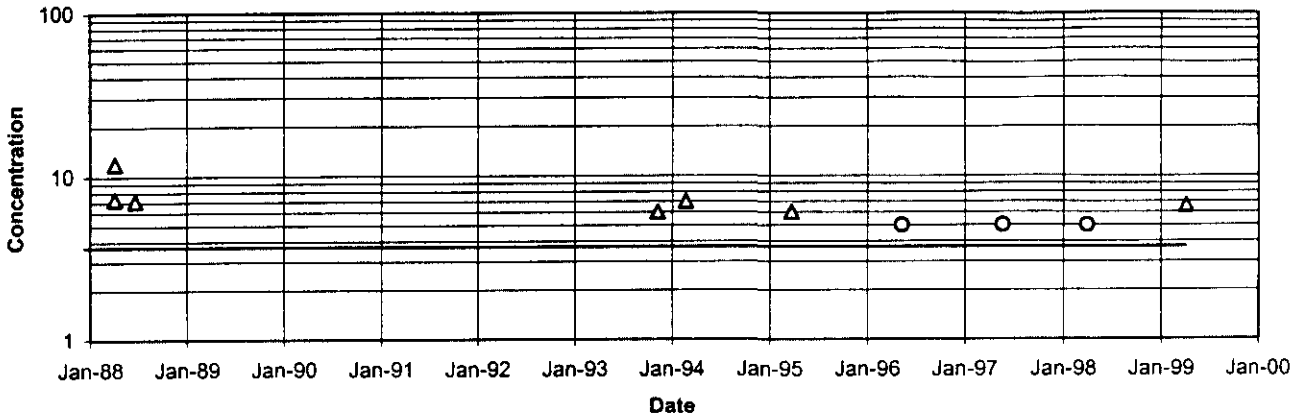
G40



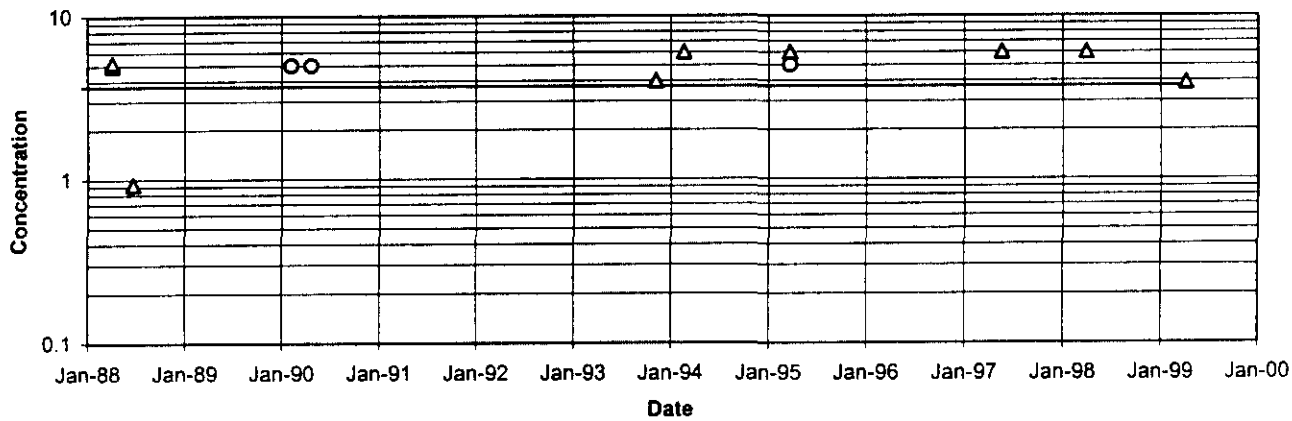
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

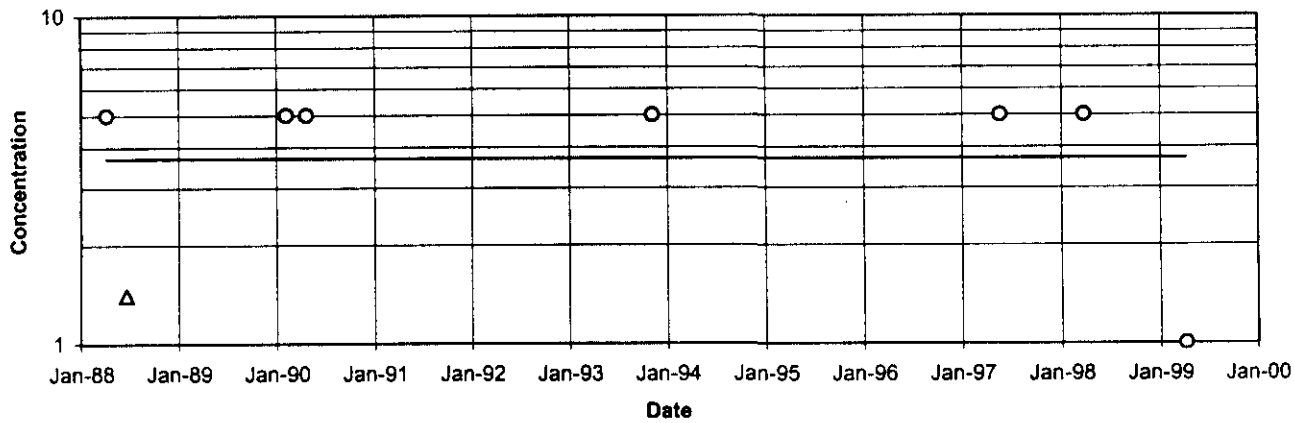
MW106



P1



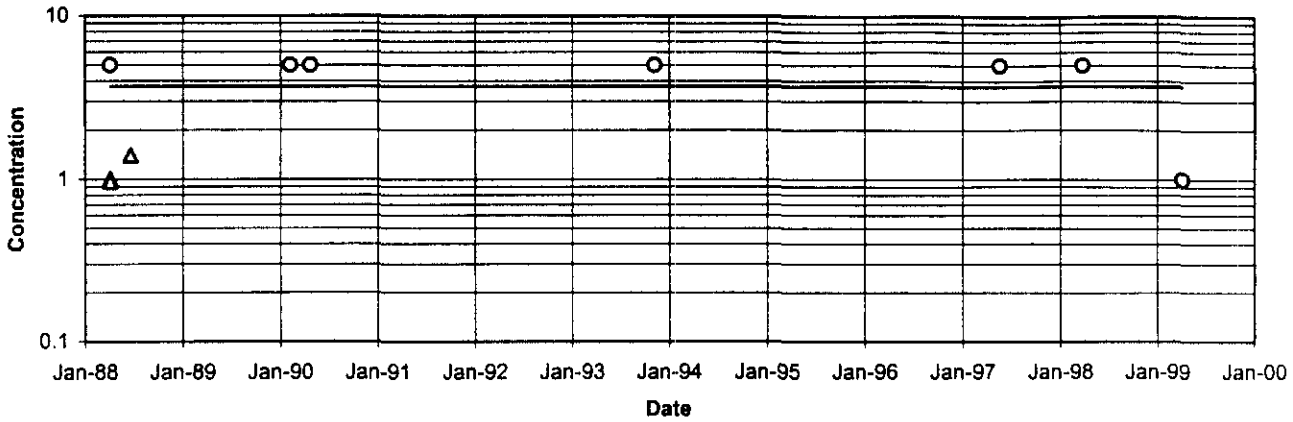
P3R



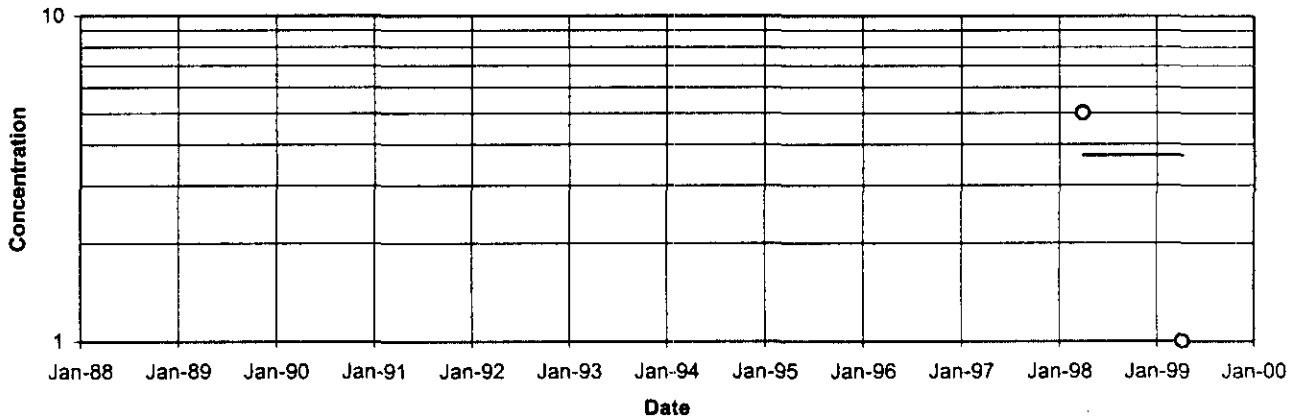
1,4-Dichlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

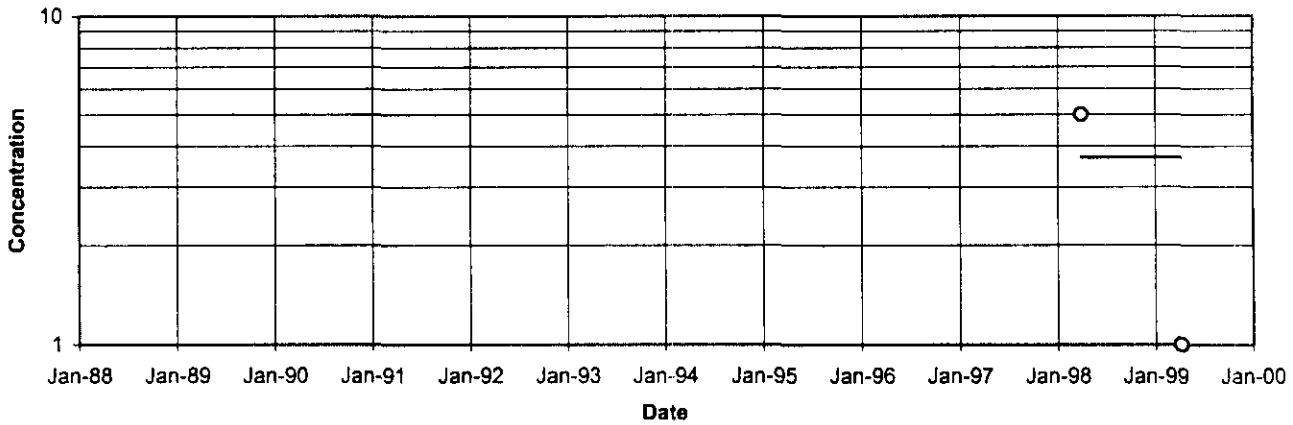
P4R



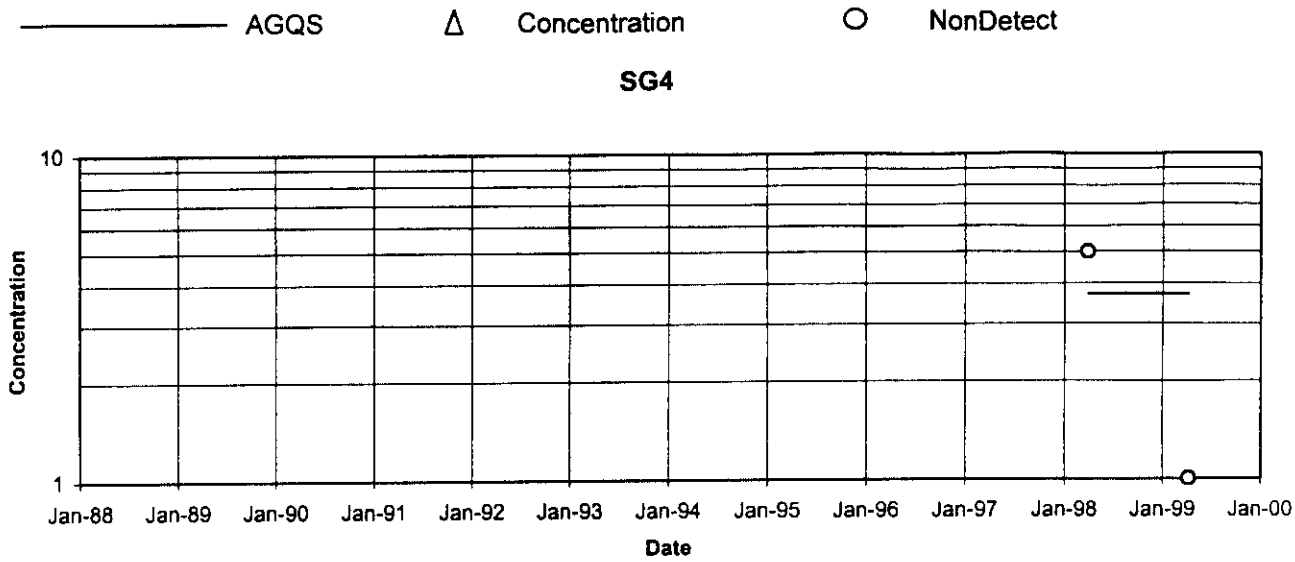
SG1



SG3



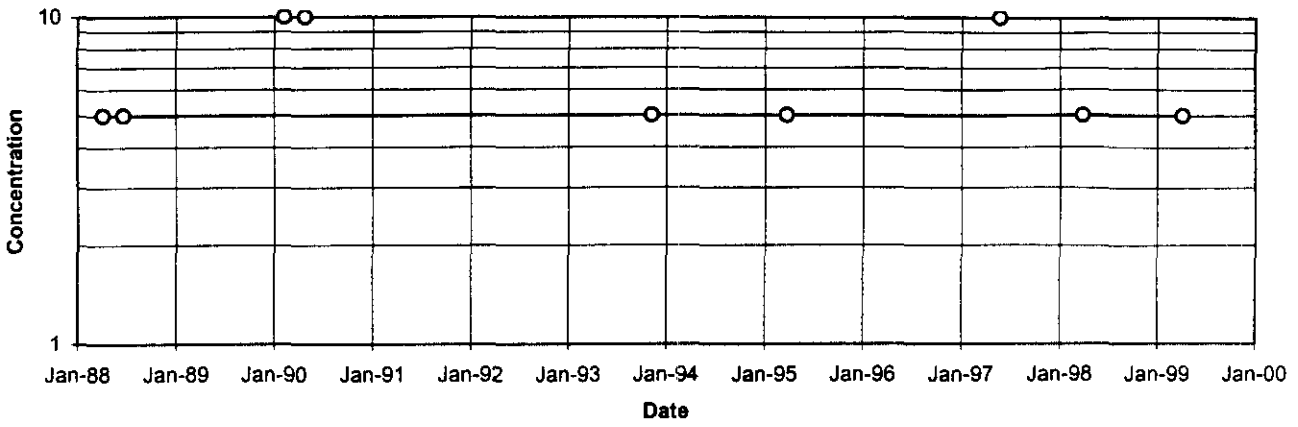
1,4-Dichlorobenzene (ug/L)



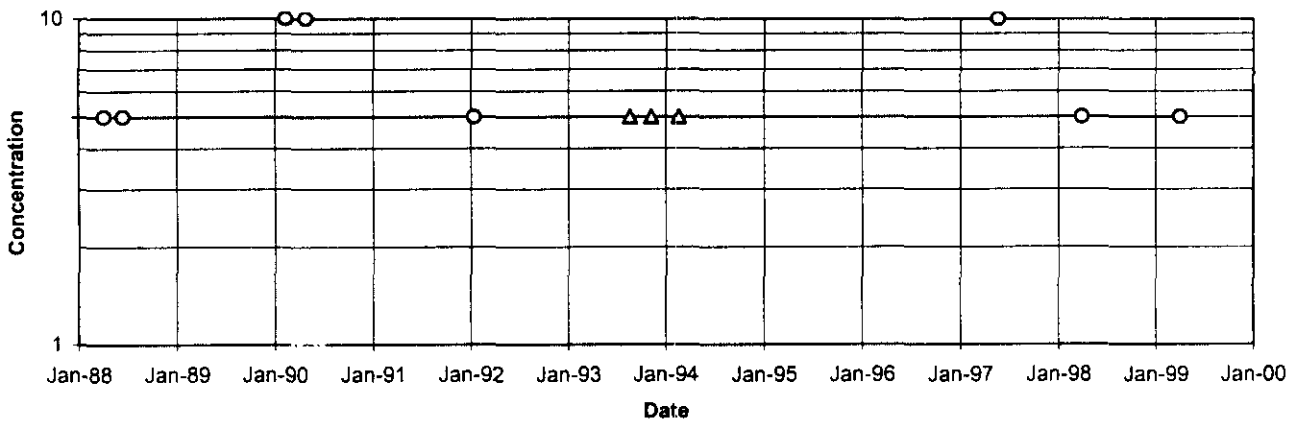
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

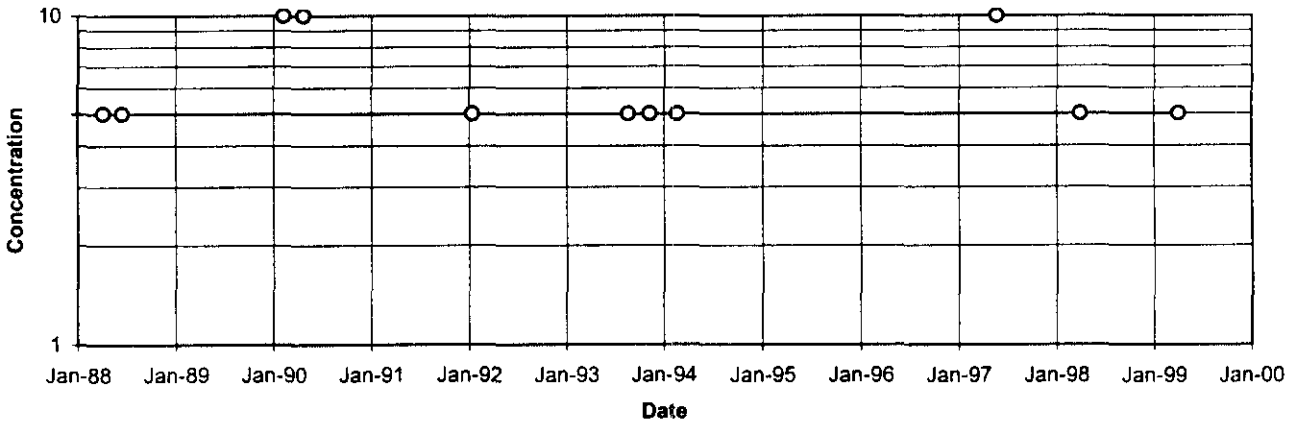
B15R



G109



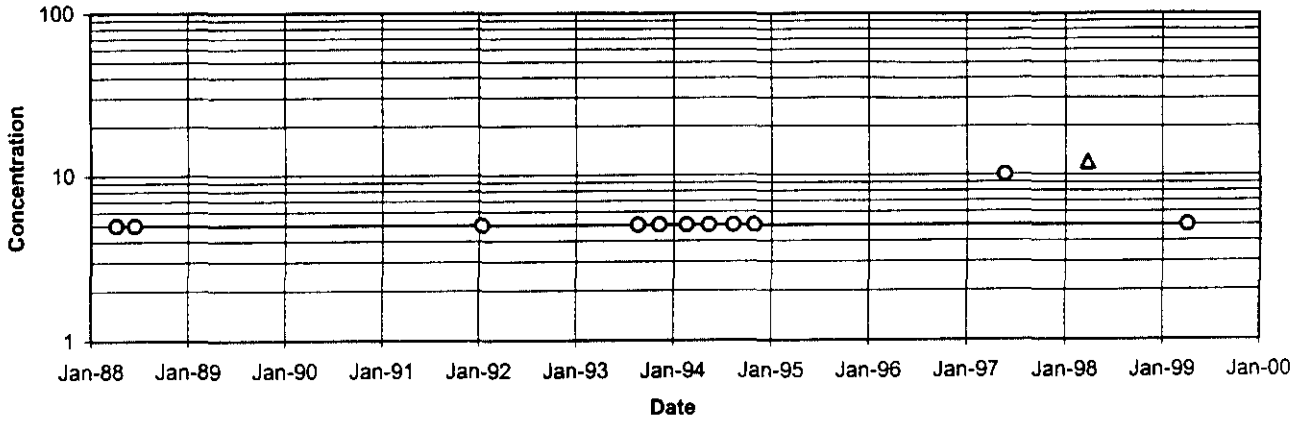
G109A



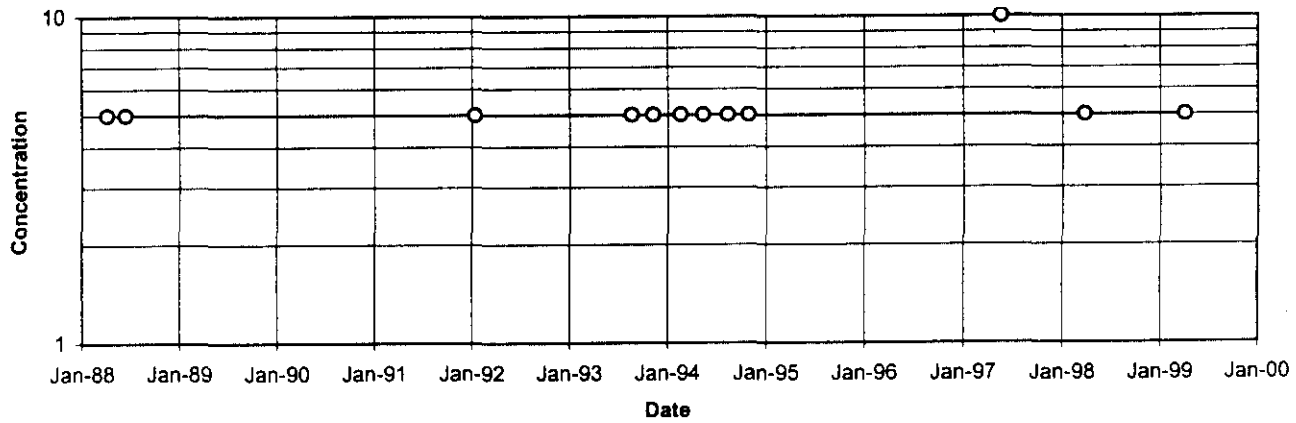
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

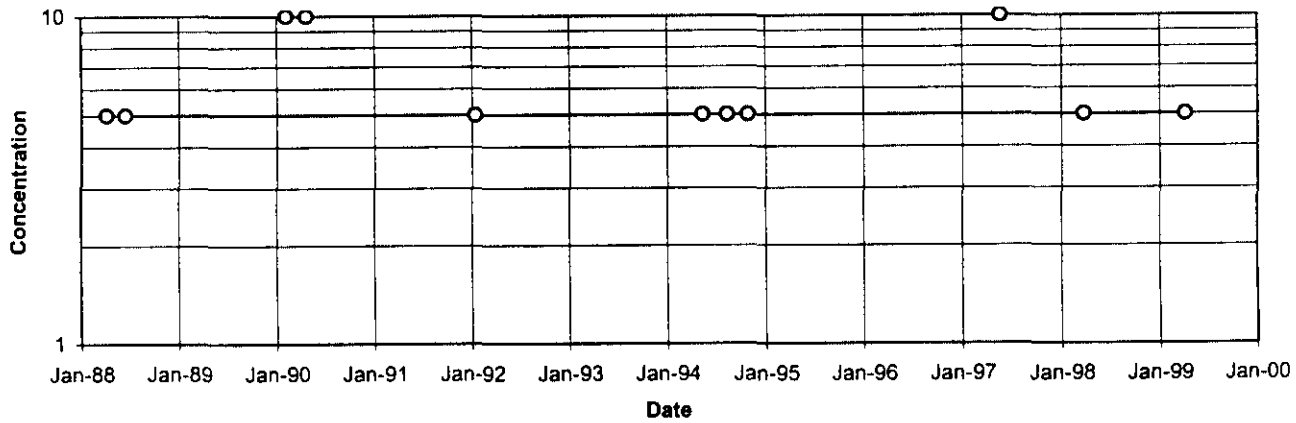
G113



G113A



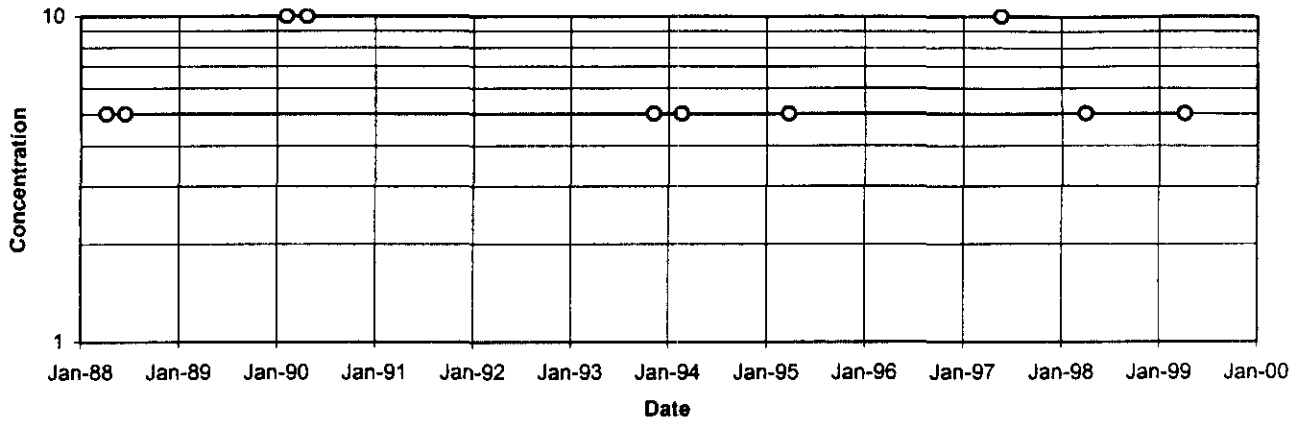
G114



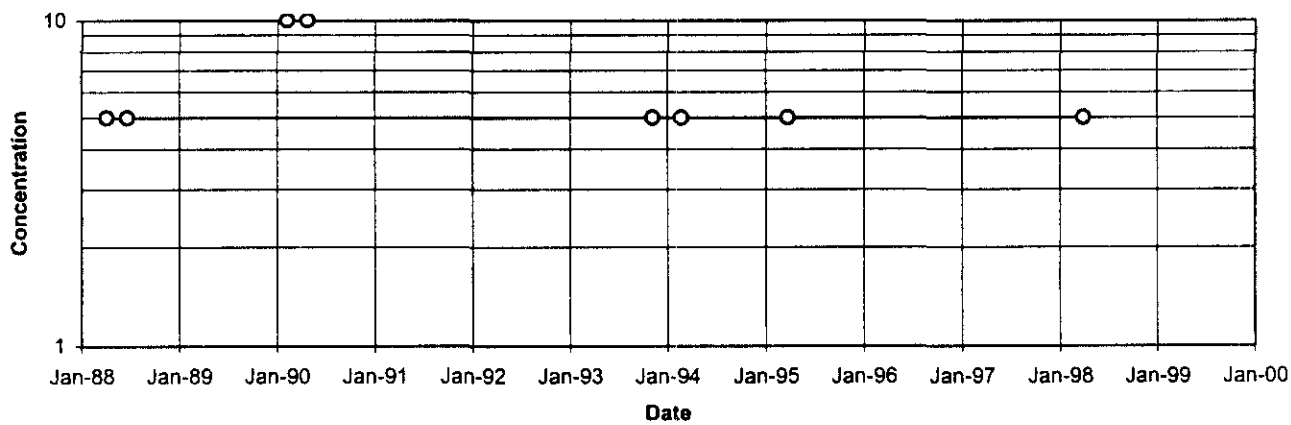
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

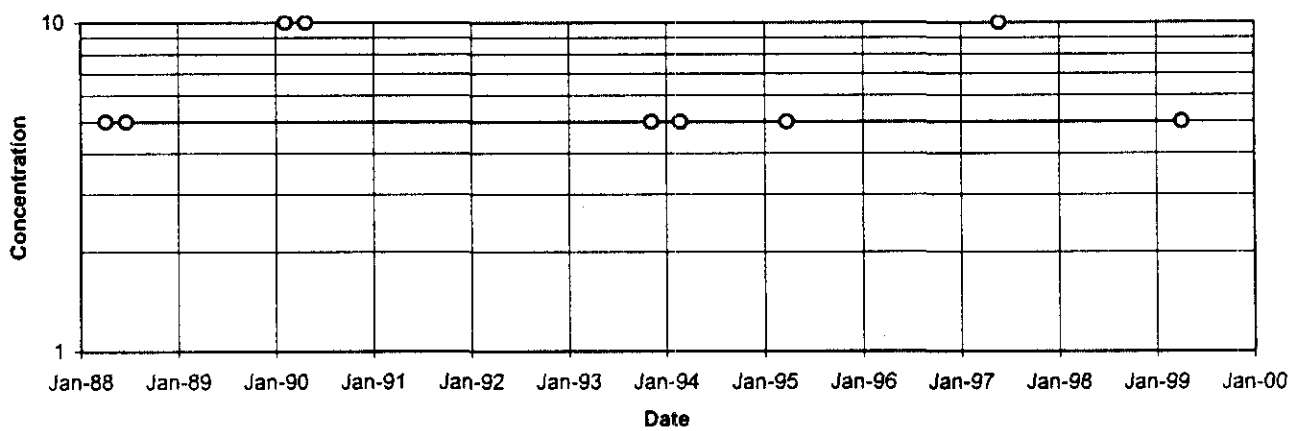
G115



G116



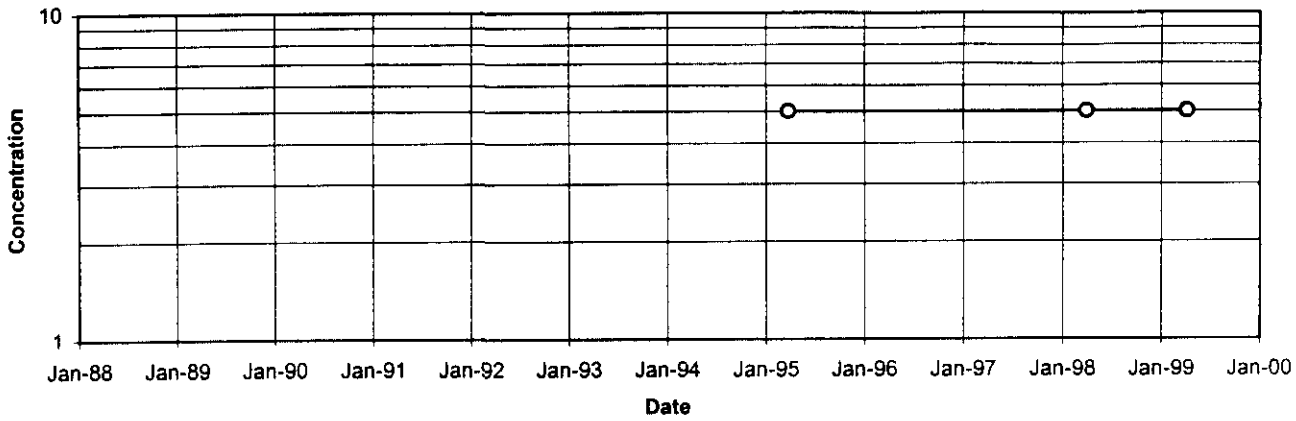
G116A



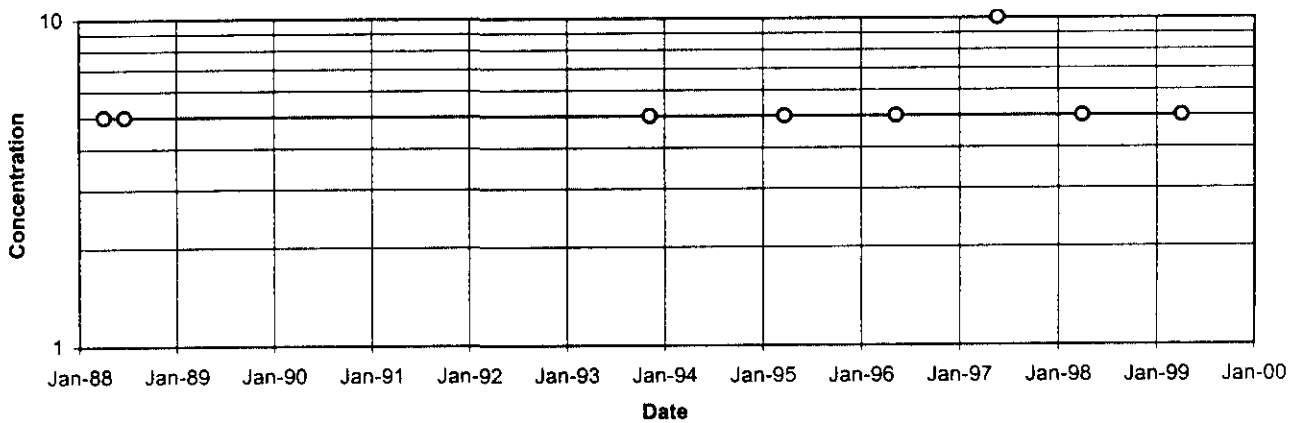
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

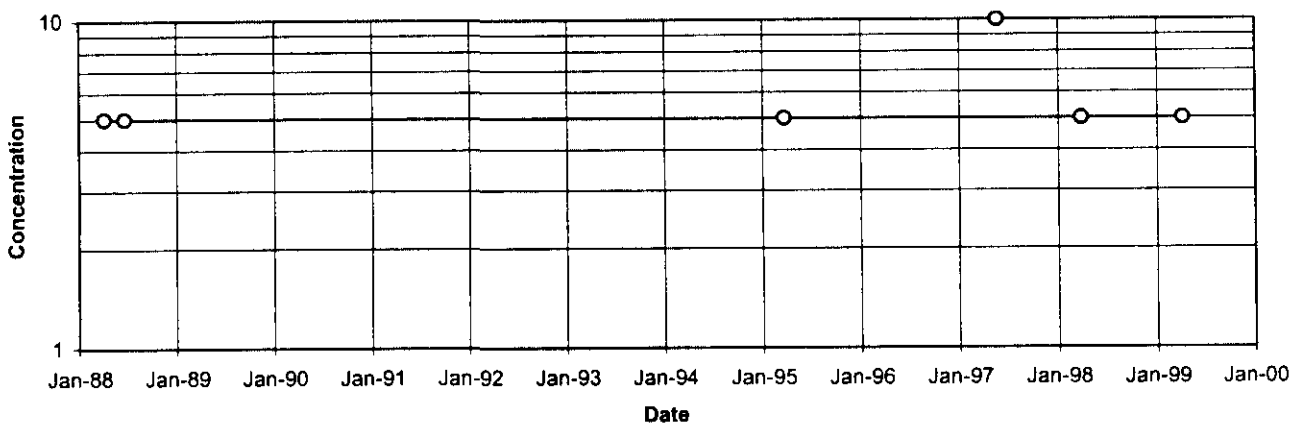
G116D



G117



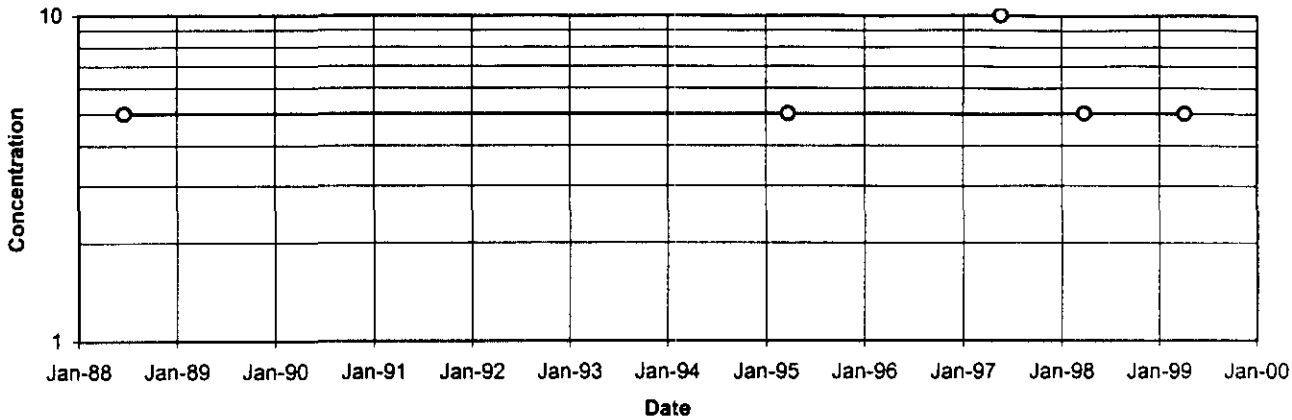
G118A



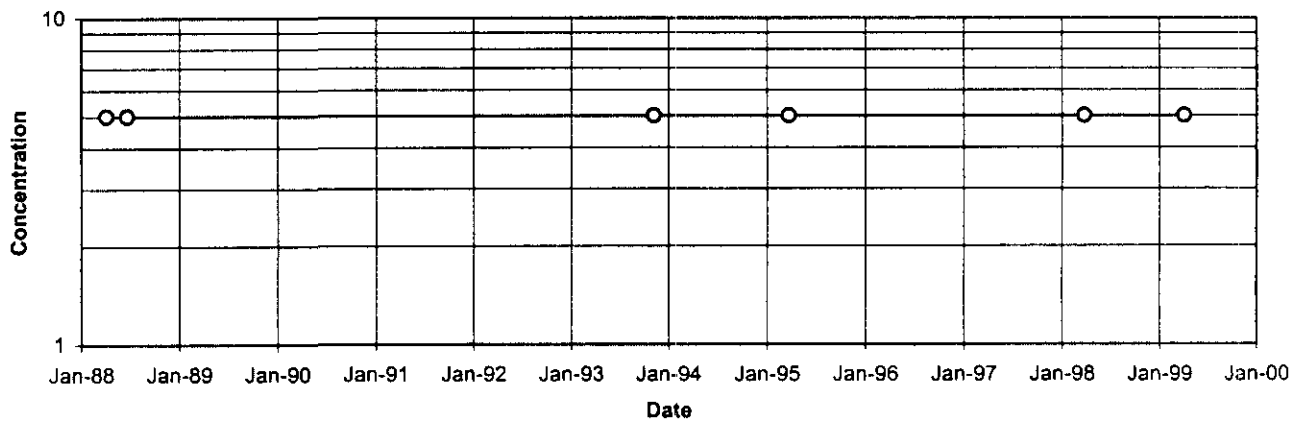
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

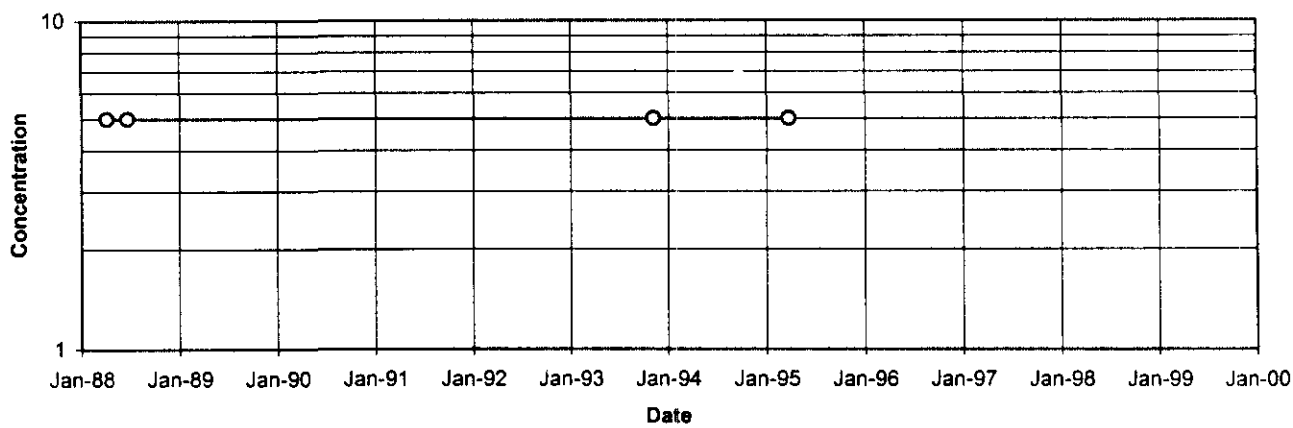
G118R



G119



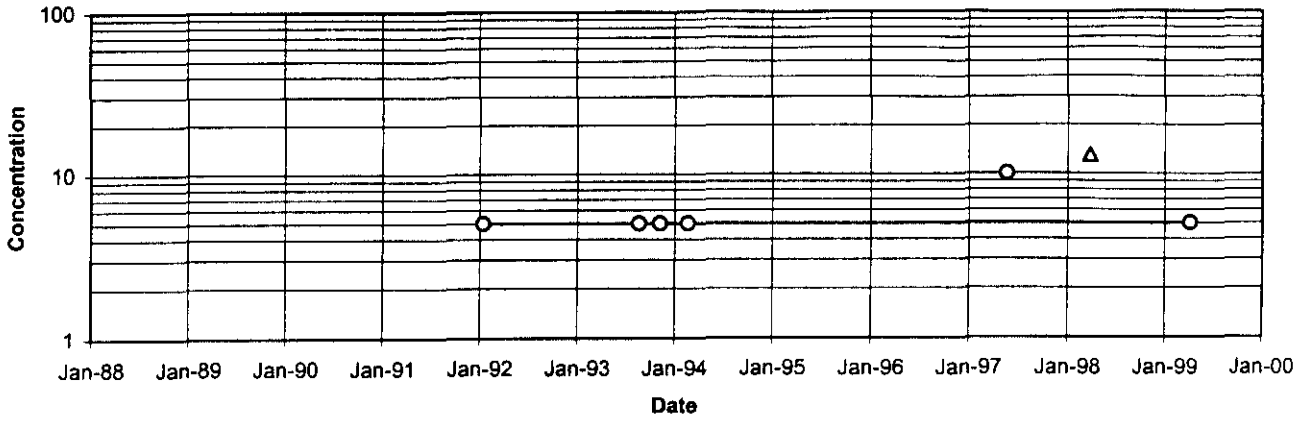
G119A



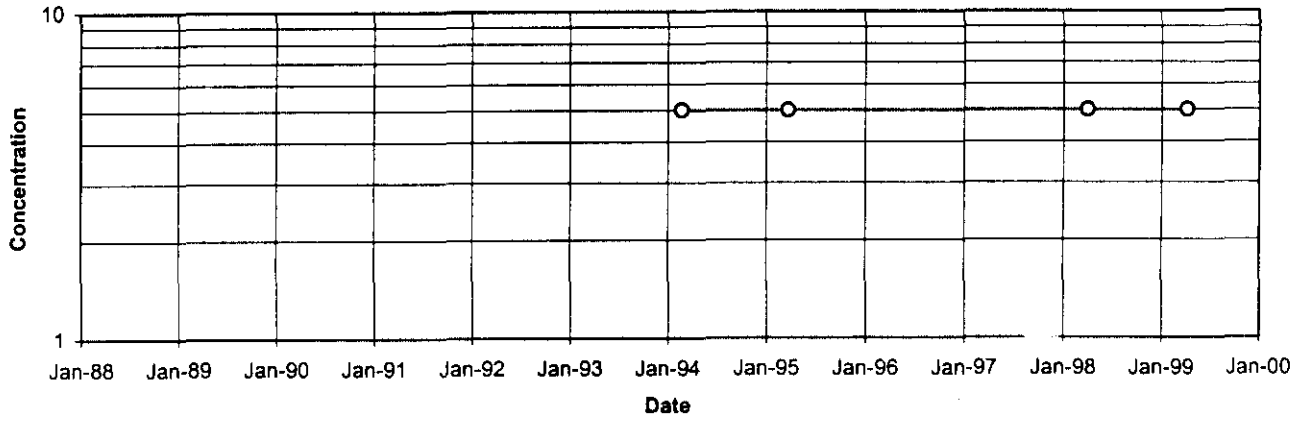
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

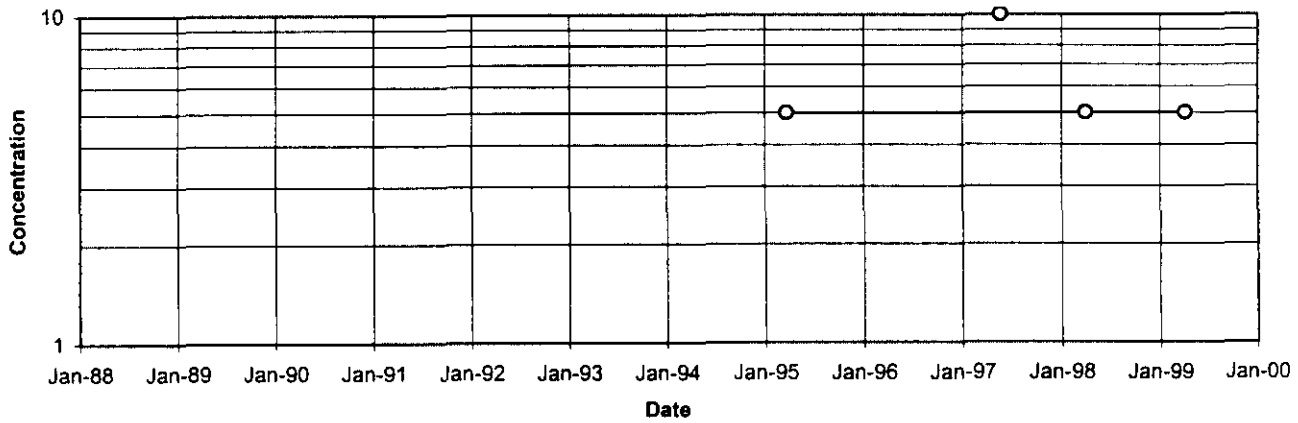
G120B



G130



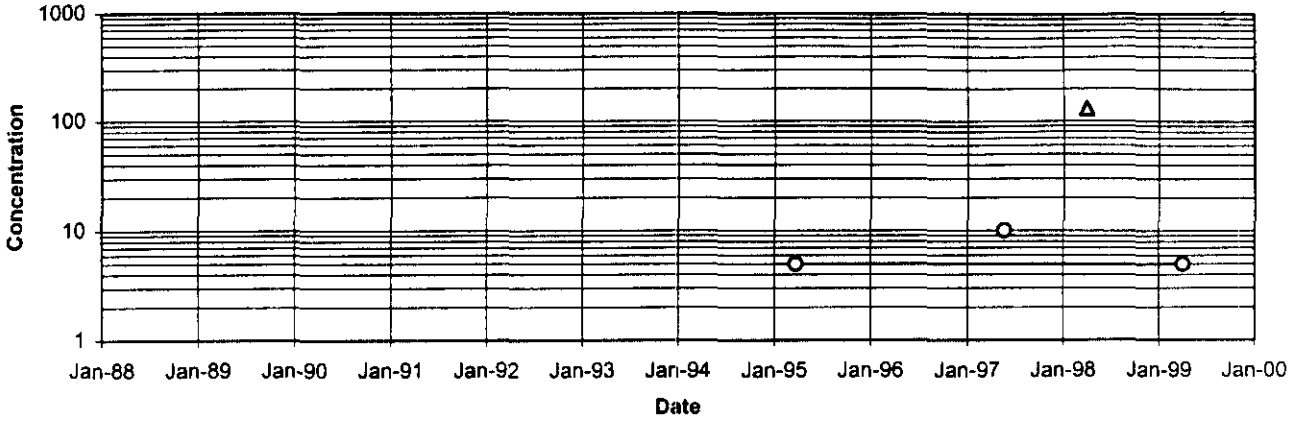
G132



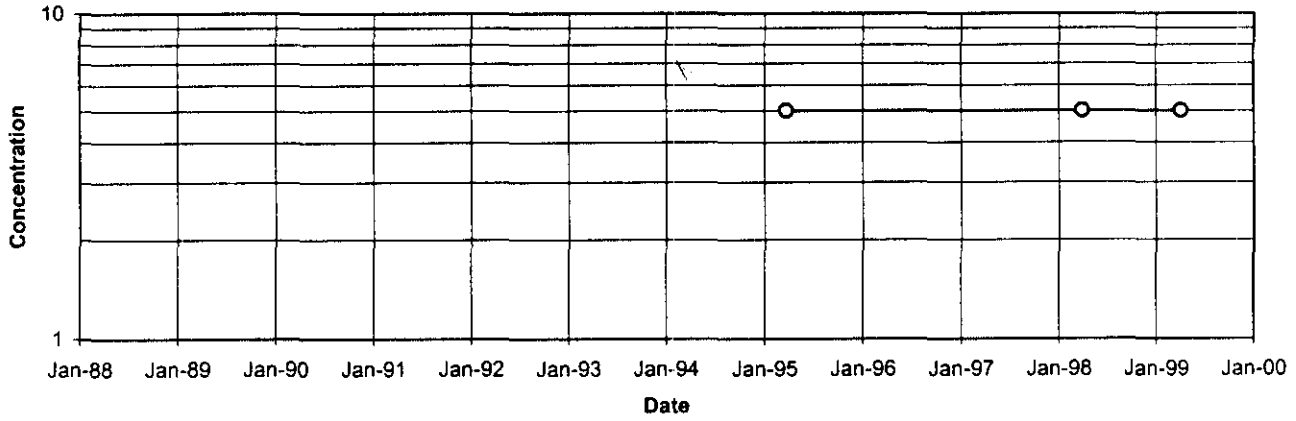
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

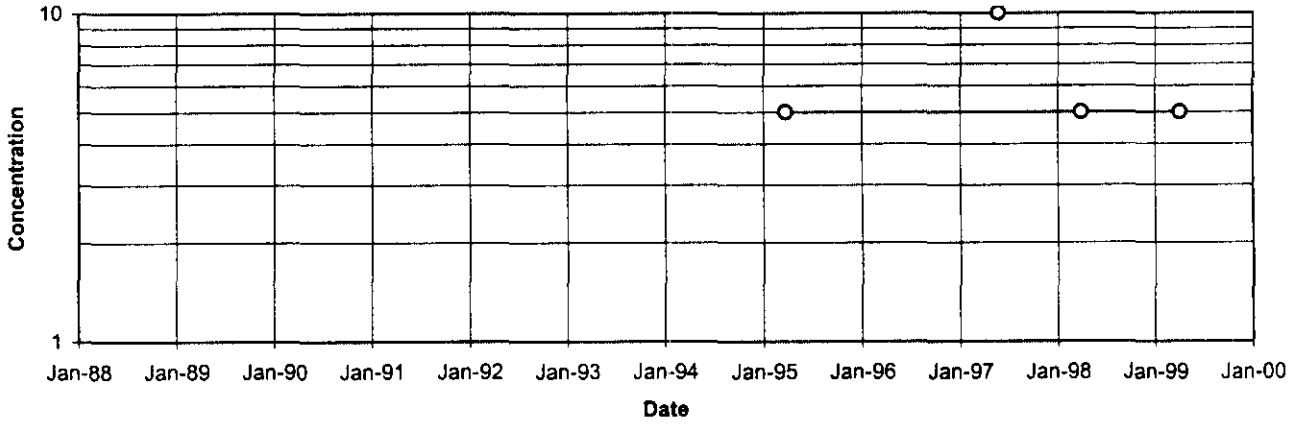
G33D



G33S



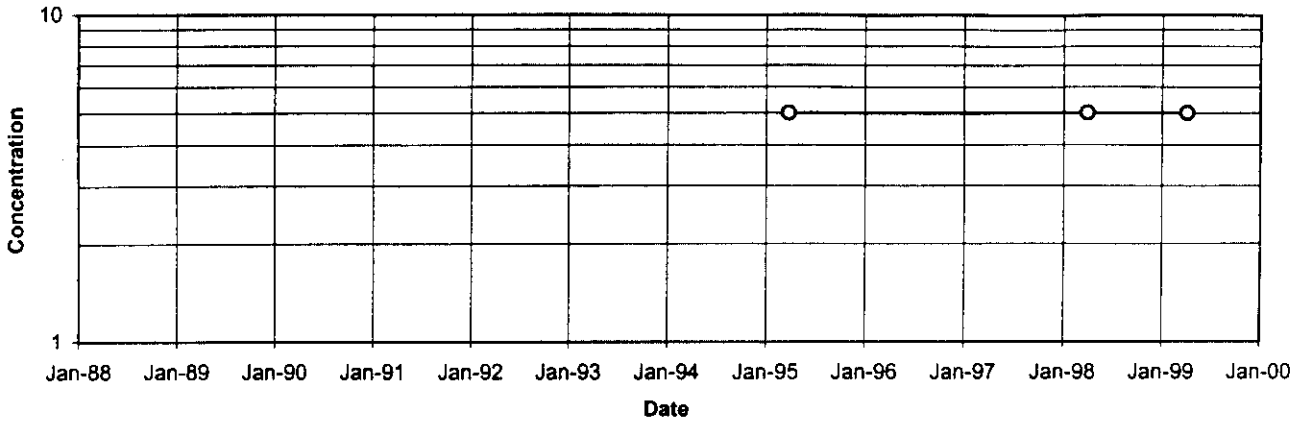
G34D



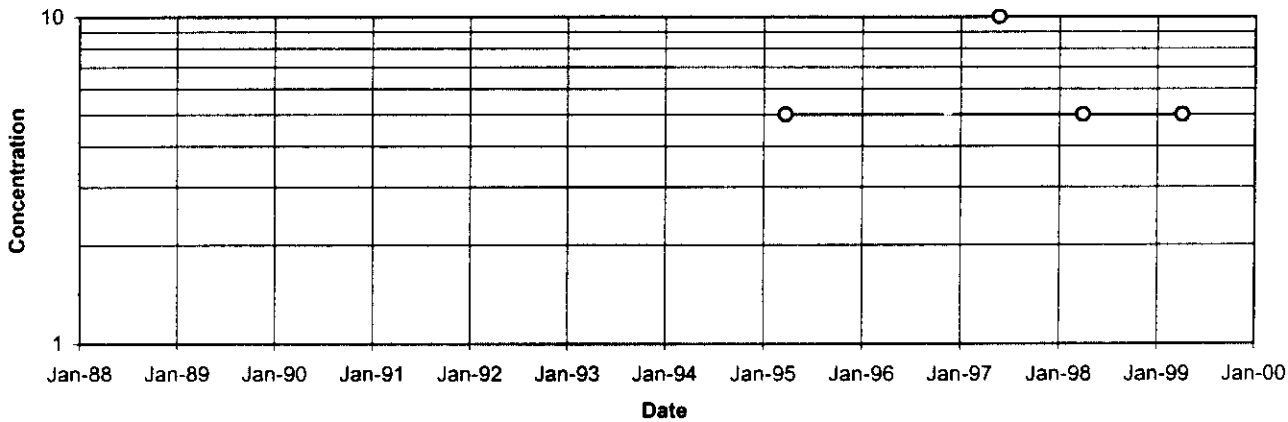
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

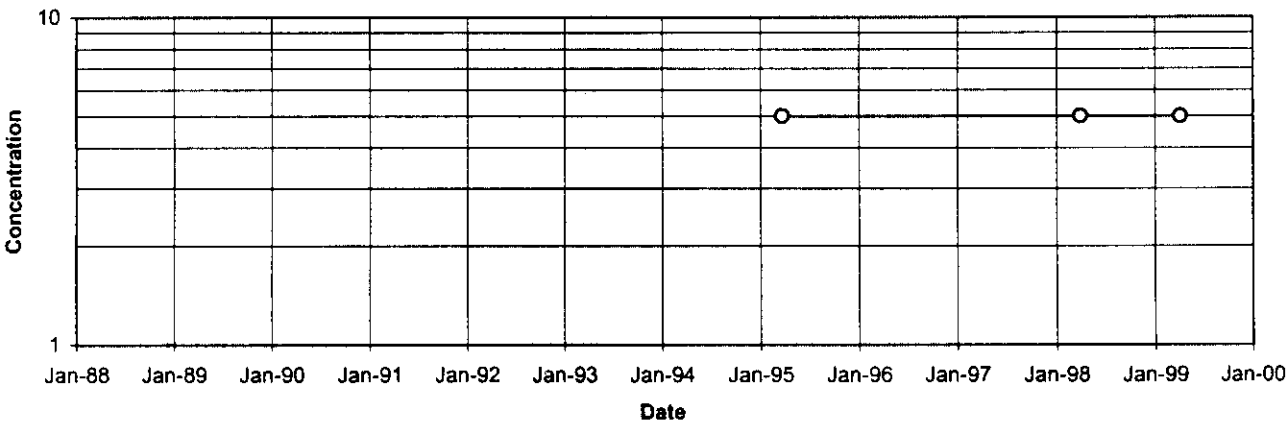
G34S



G35D



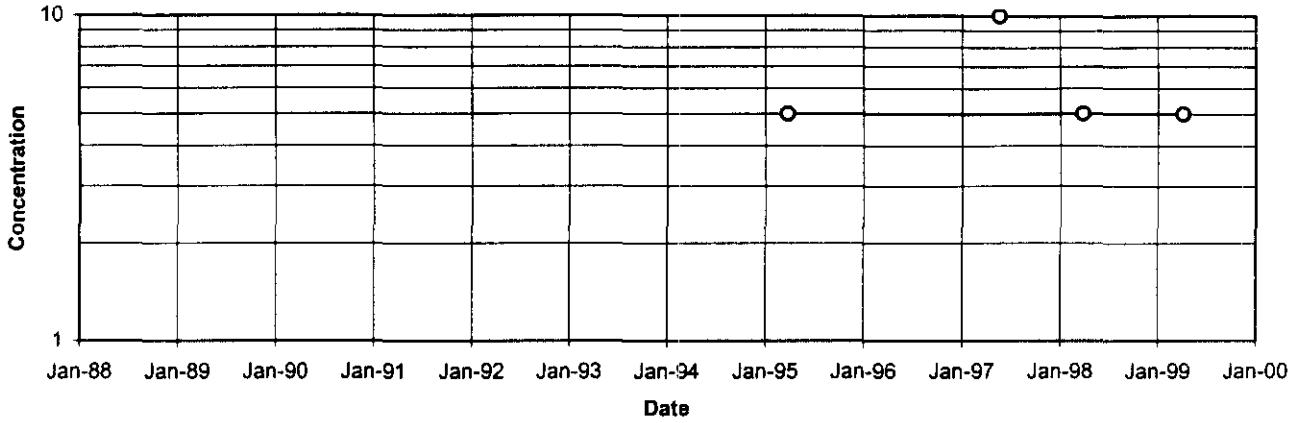
G35S



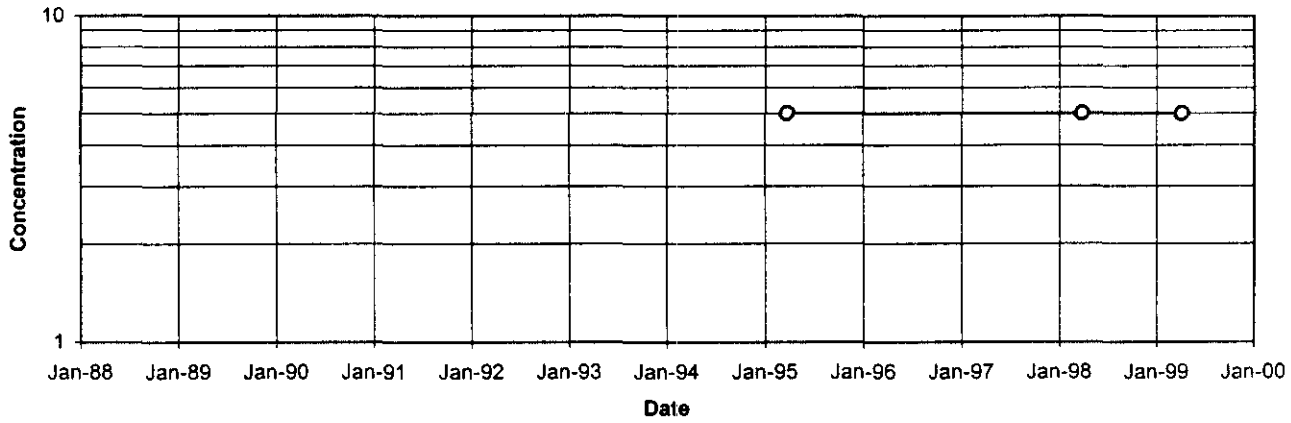
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

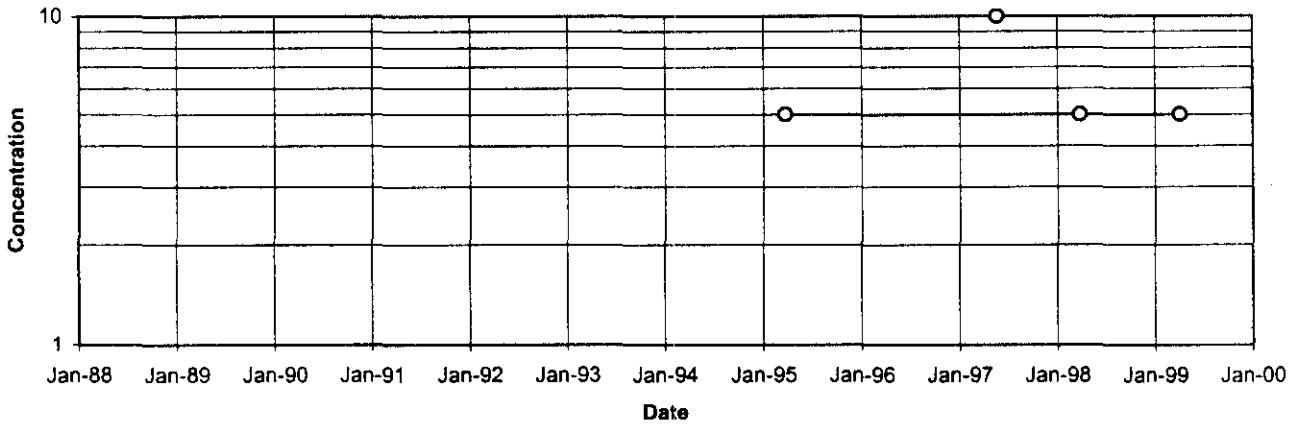
G36



G37D



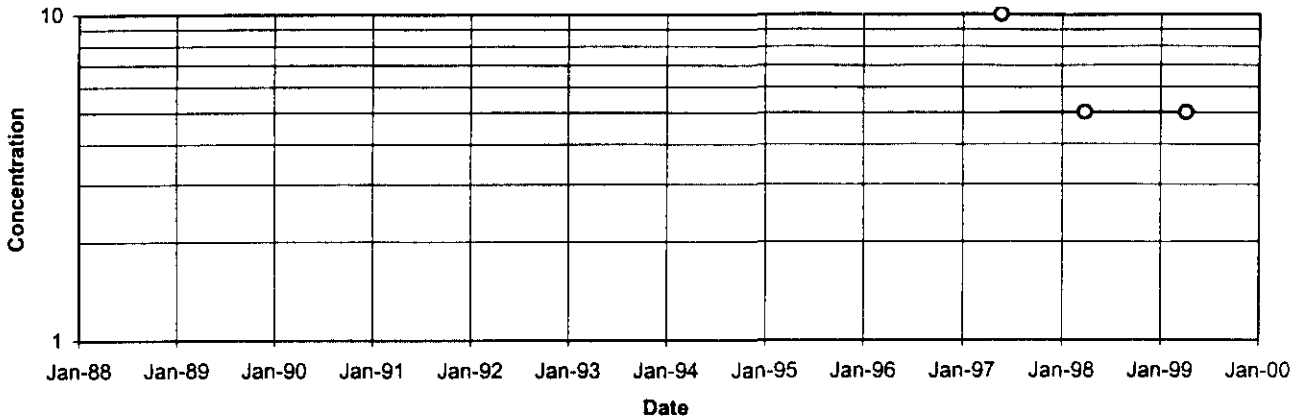
G37S



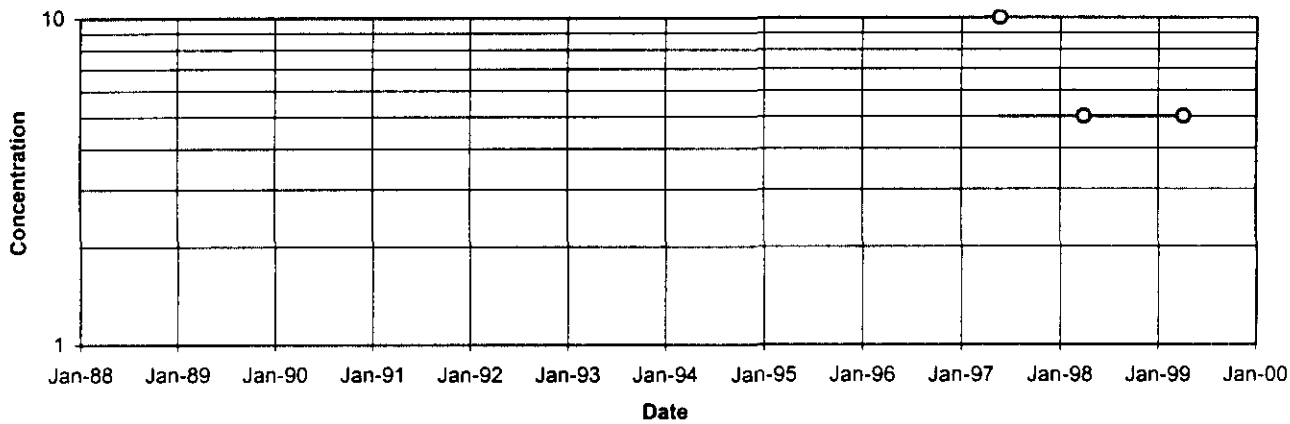
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

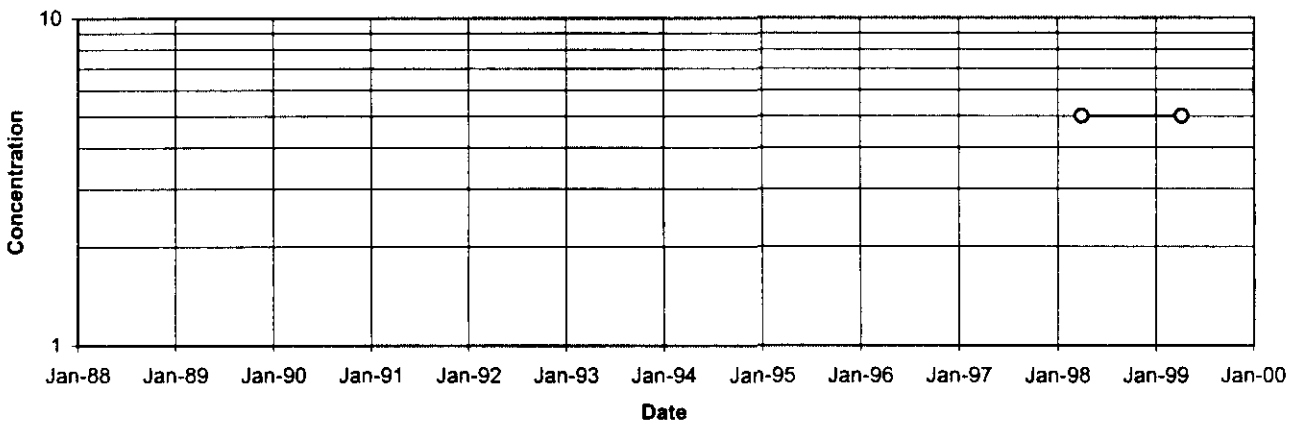
G38



G39



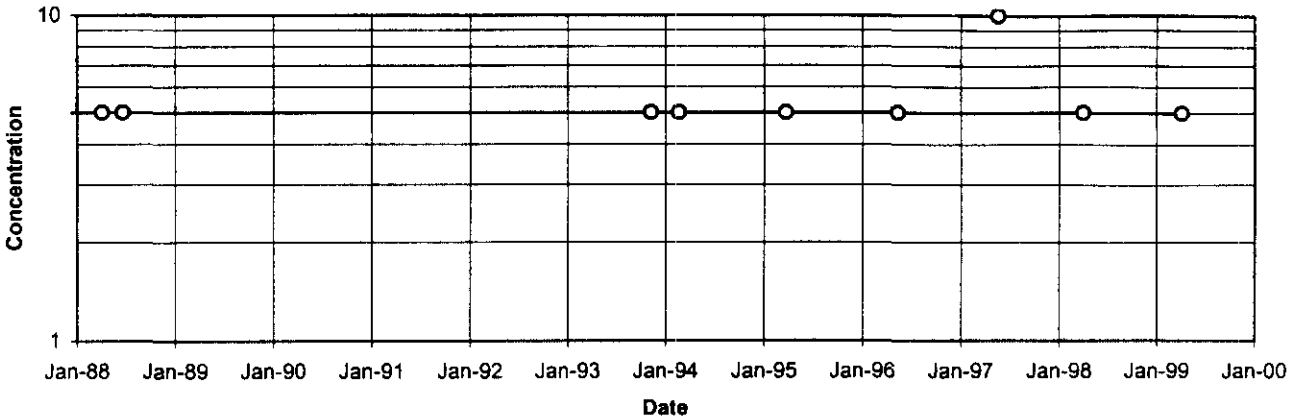
G40



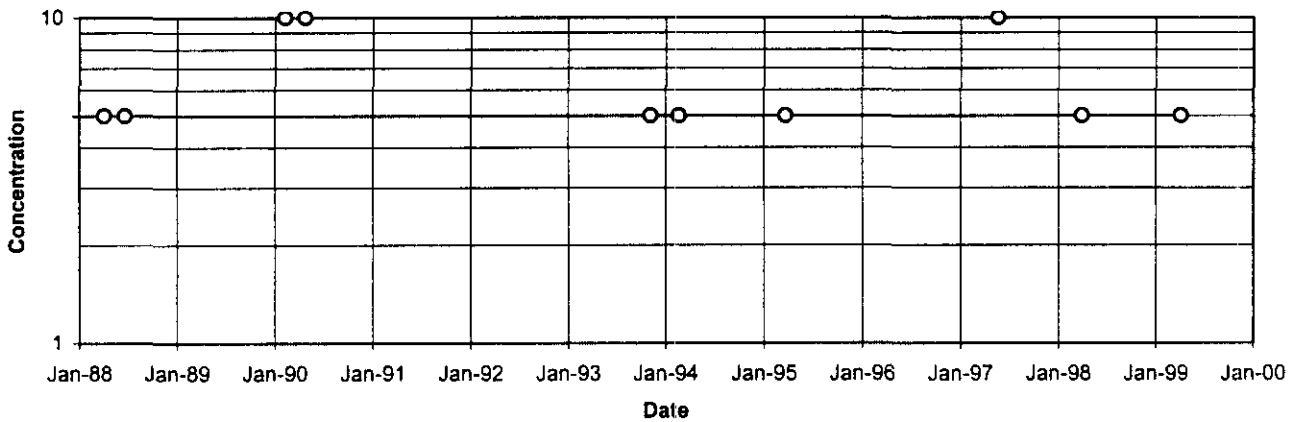
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

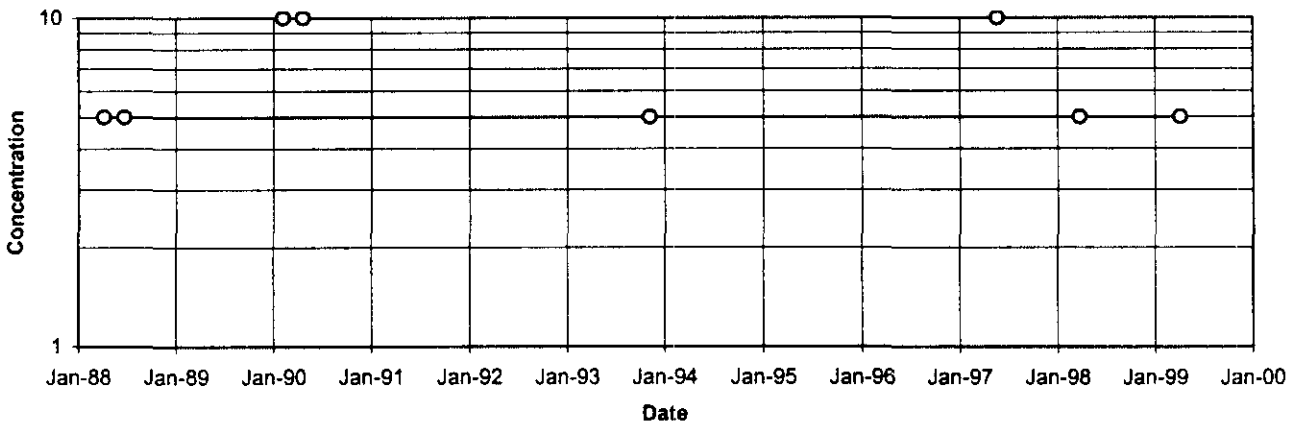
MW106



P1



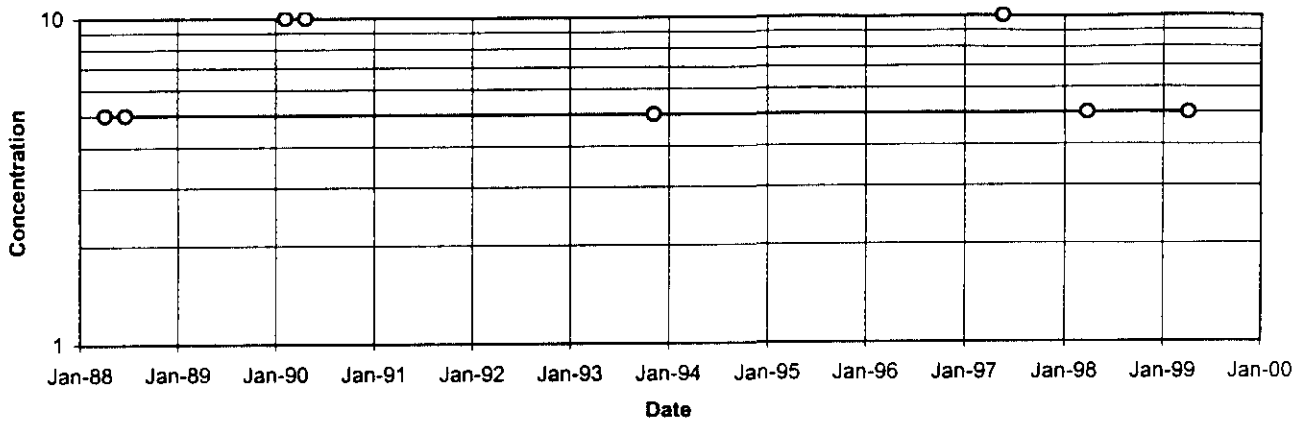
P3R



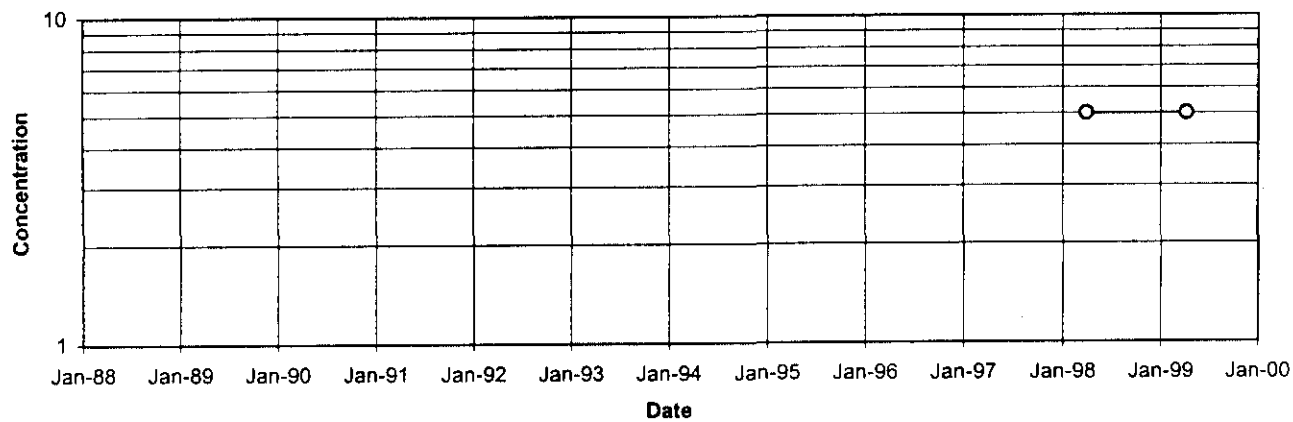
2-Butanone (ug/L)

AGQS Δ Concentration O NonDetect

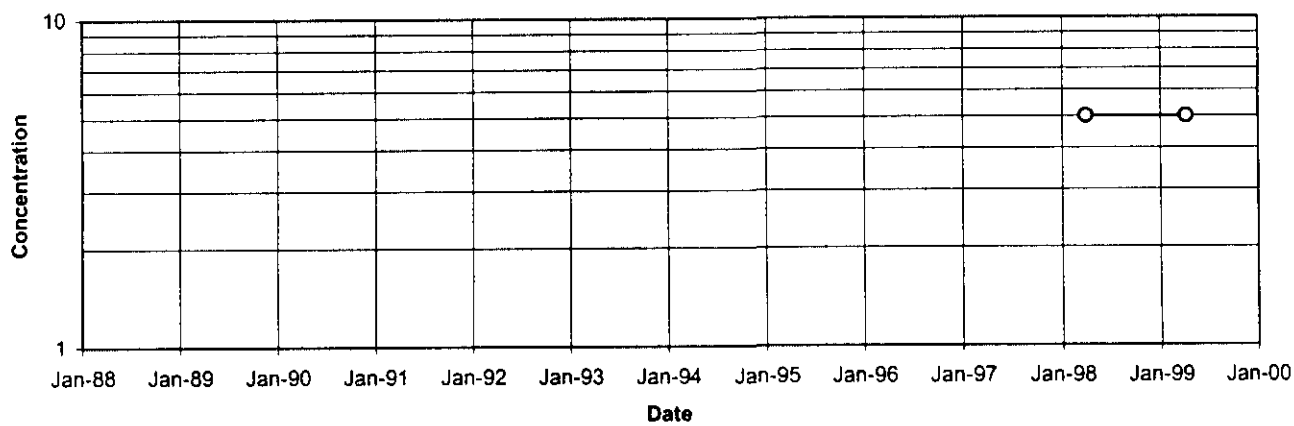
P4R



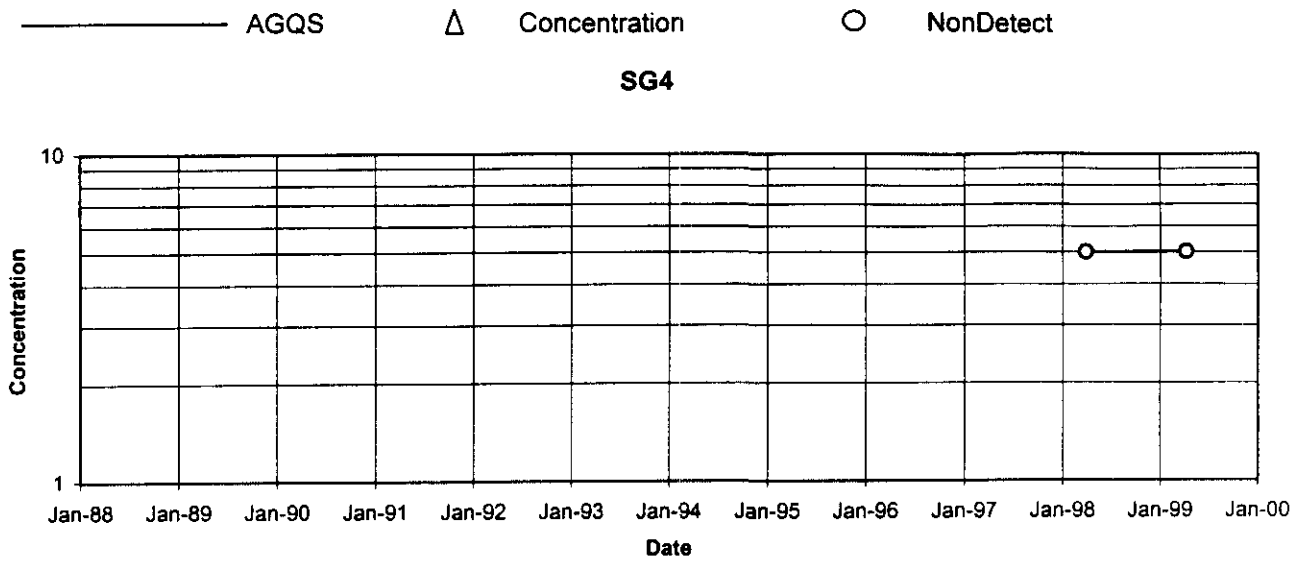
SG1



SG3



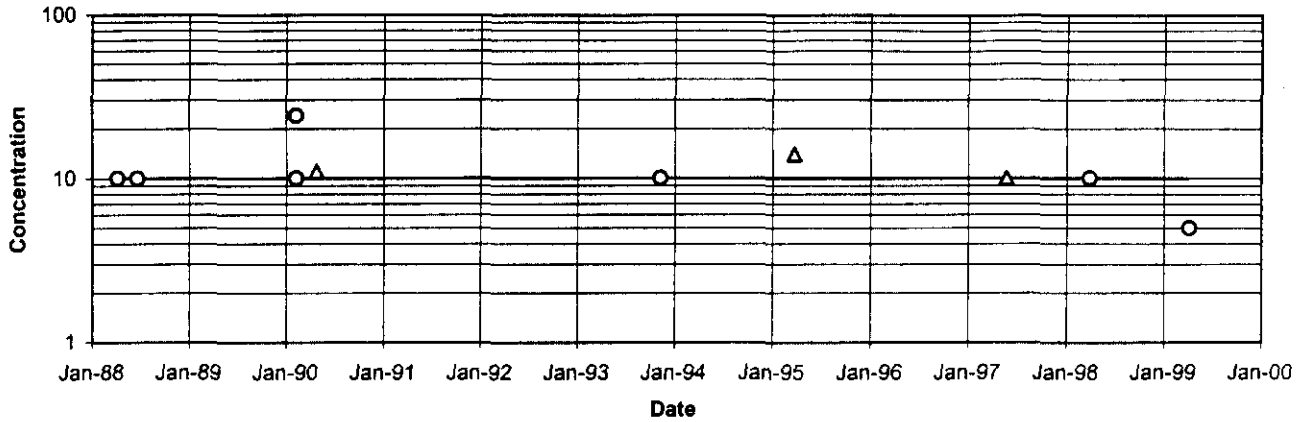
2-Butanone (ug/L)



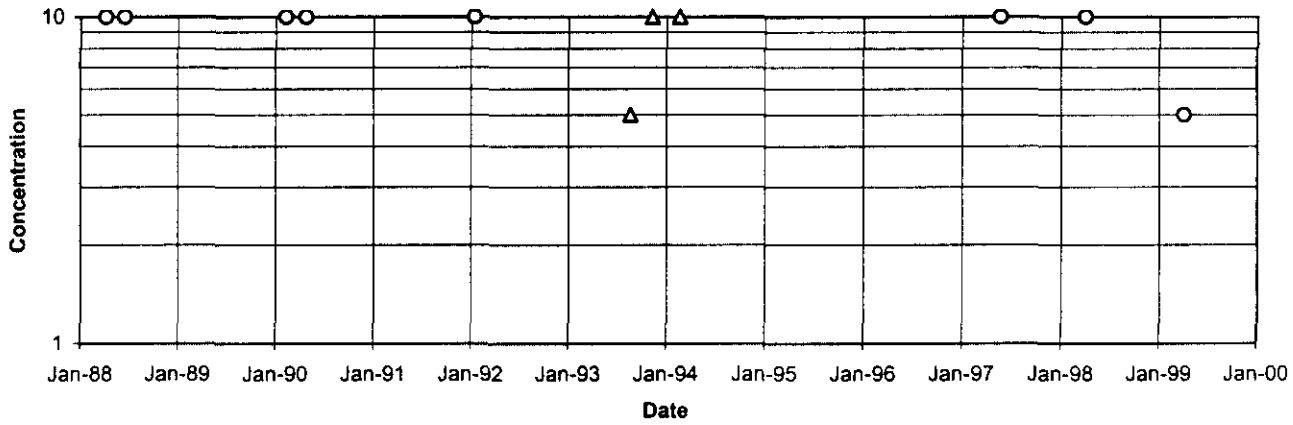
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

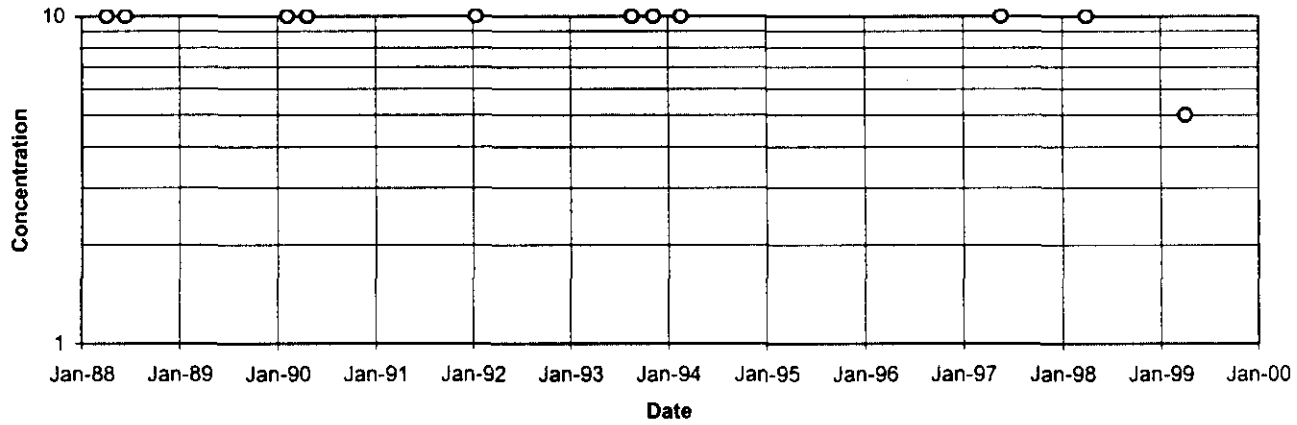
B15R



G109



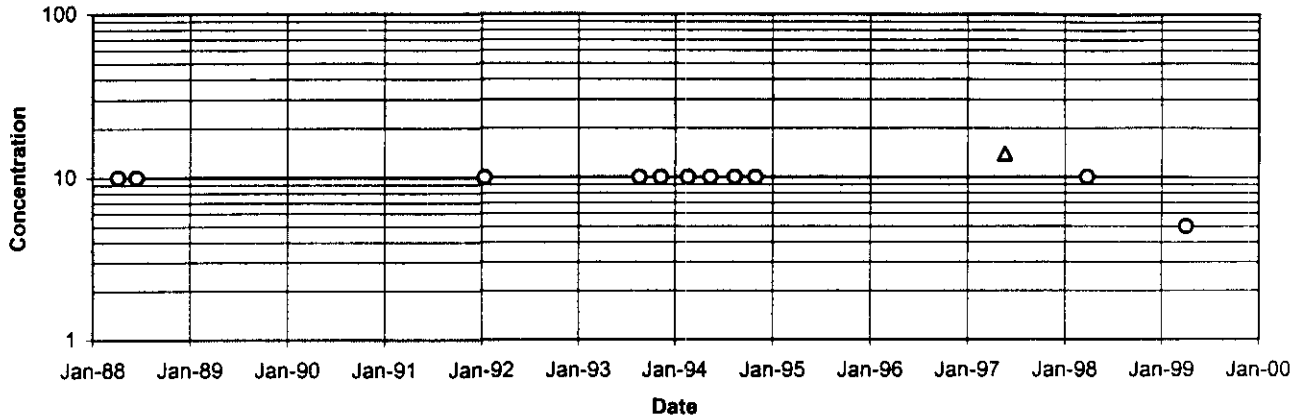
G109A



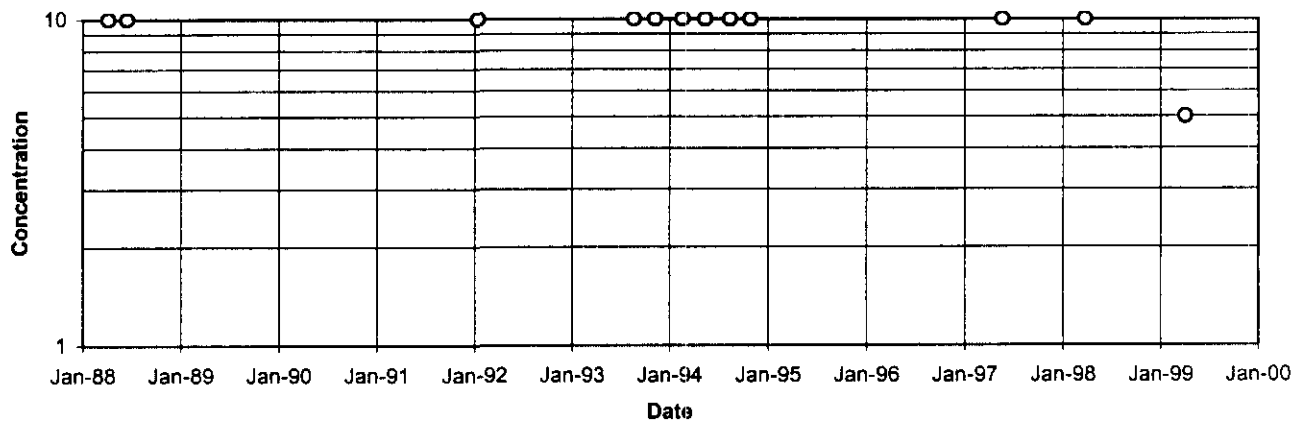
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

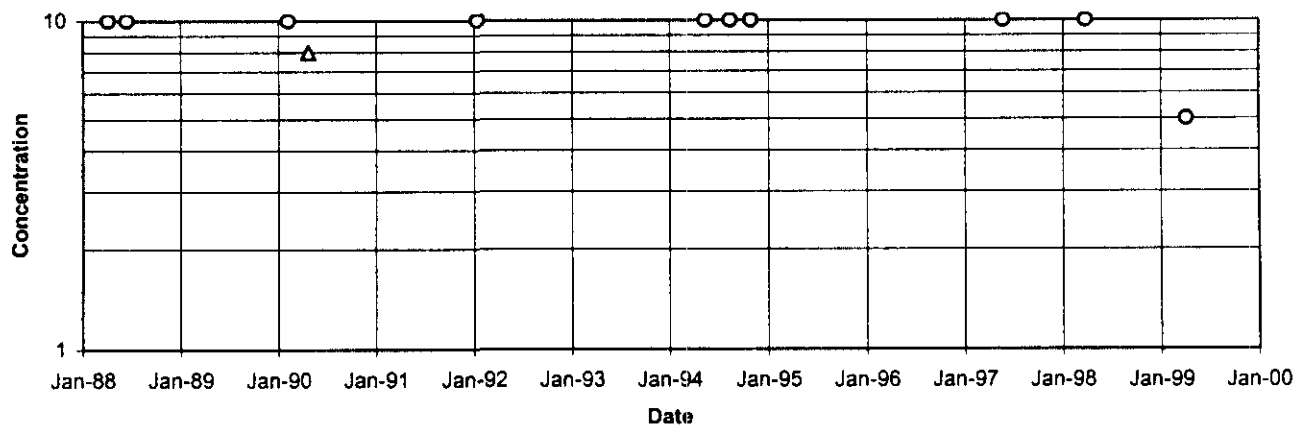
G113



G113A



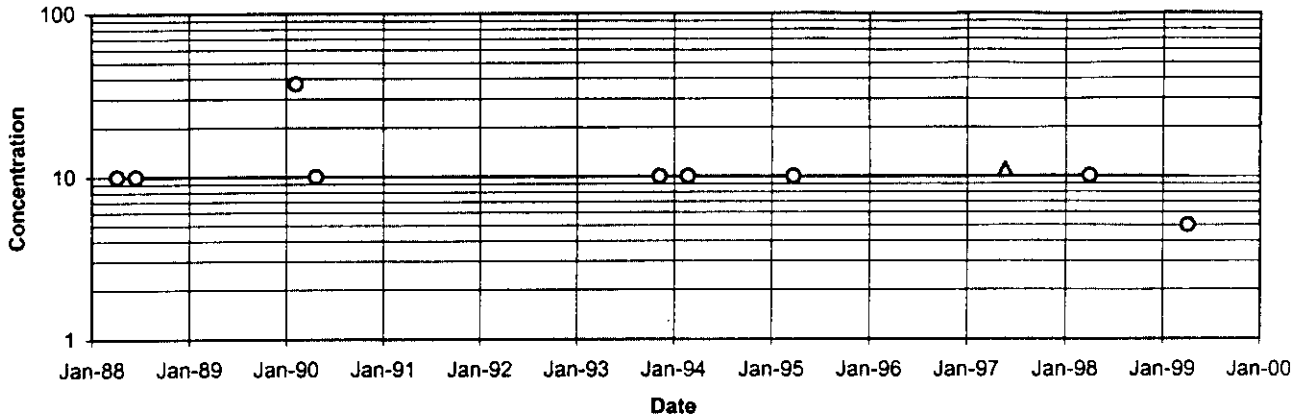
G114



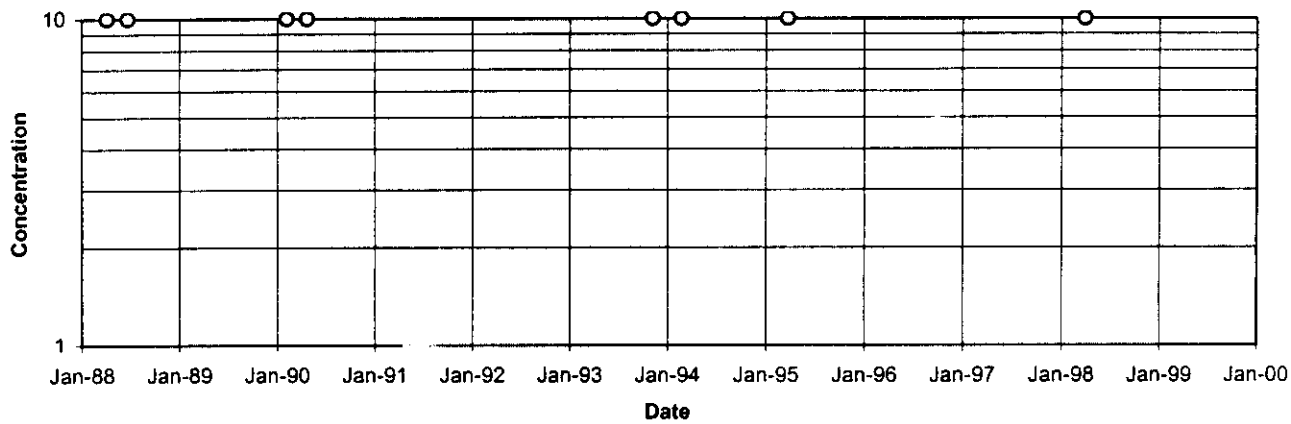
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

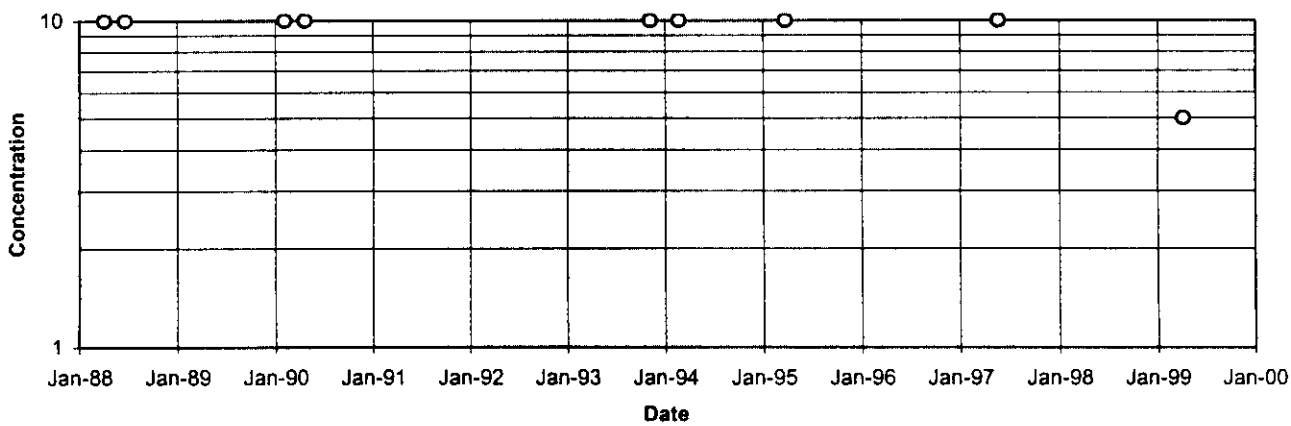
G115



G116



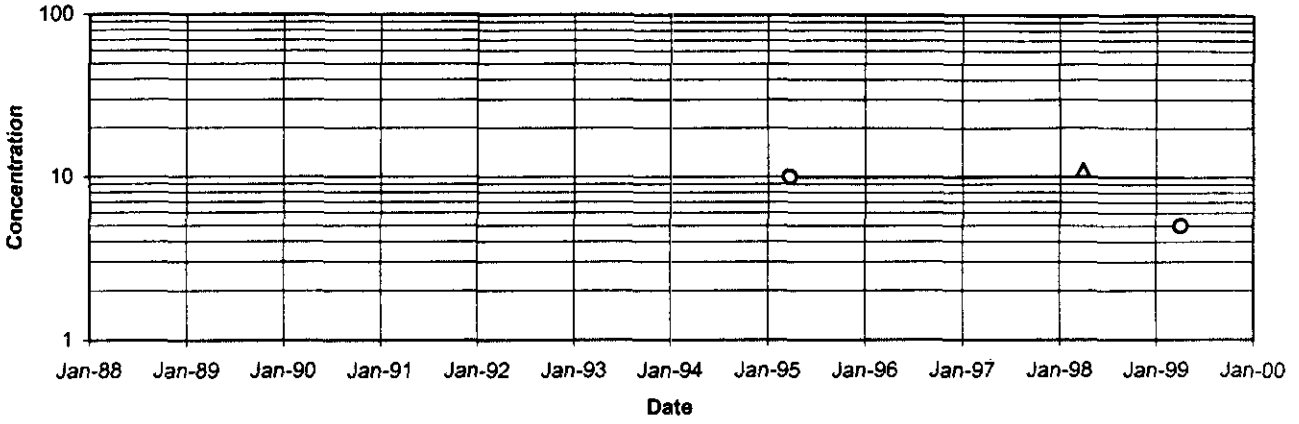
G116A



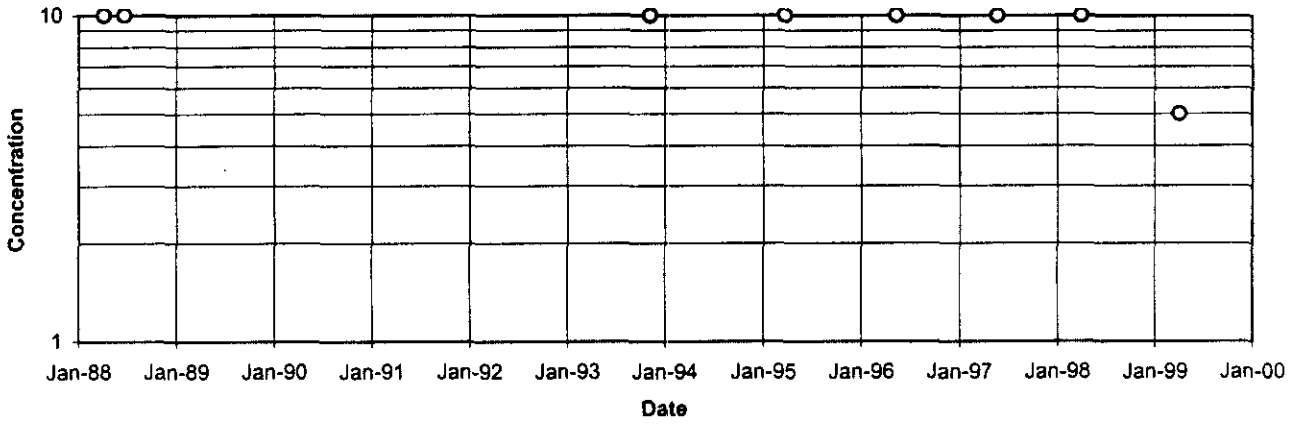
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

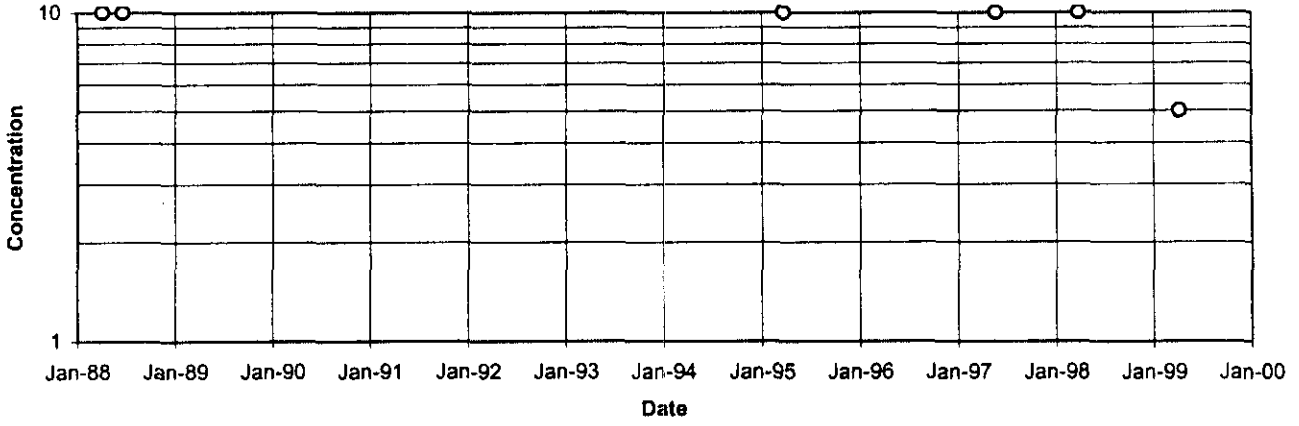
G116D



G117



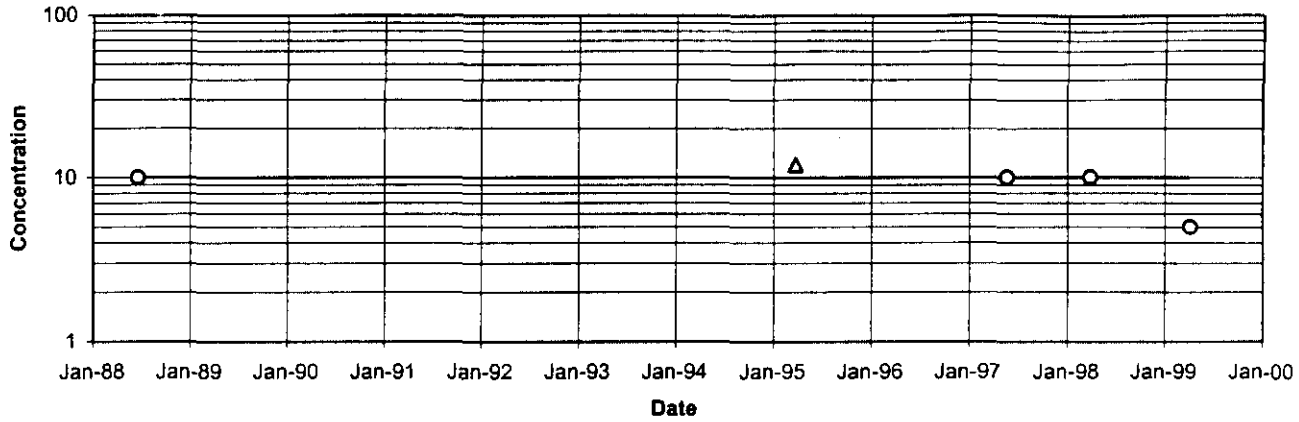
G118A



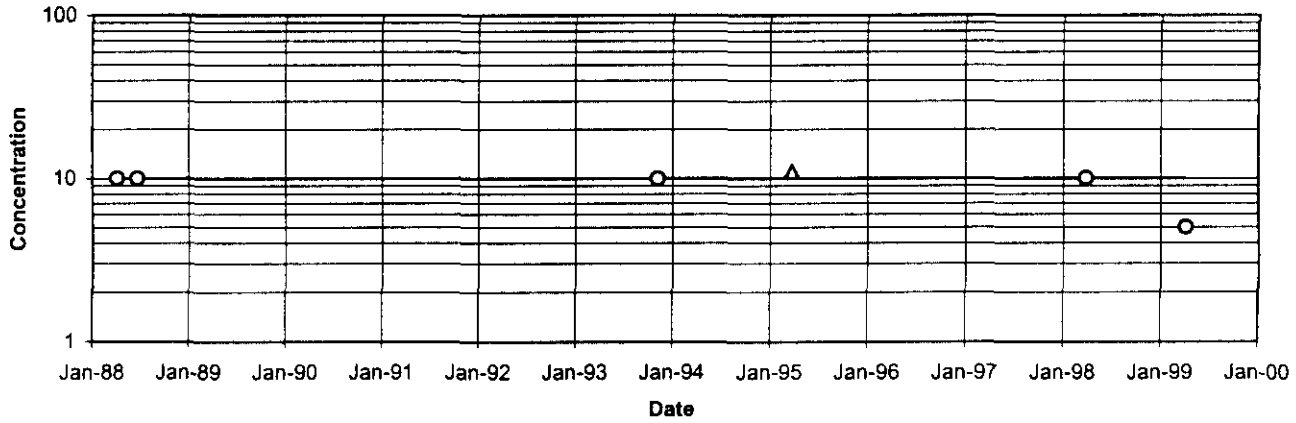
Acetone (ug/L)

AGQS Δ Concentration ○ NonDetect

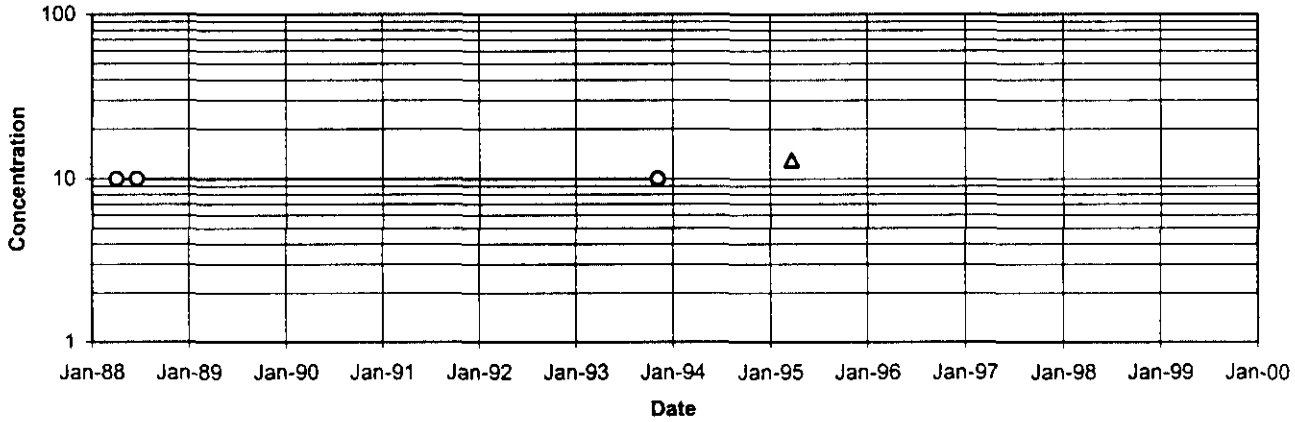
G118R



G119



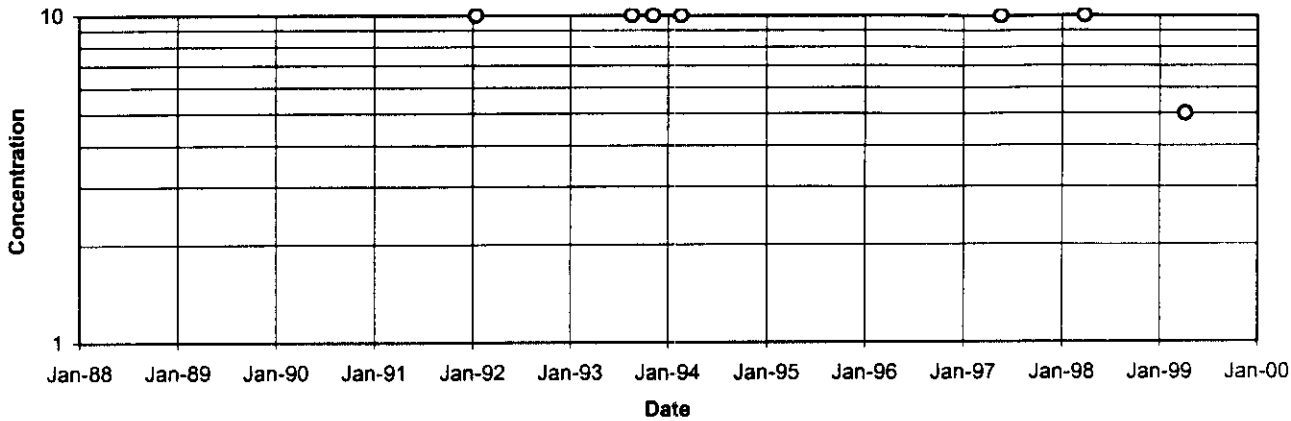
G119A



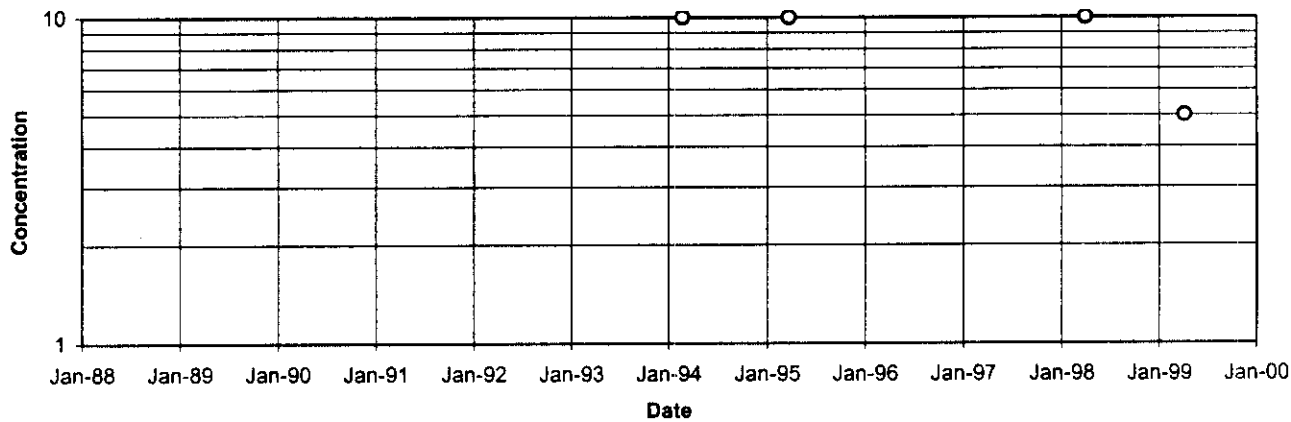
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

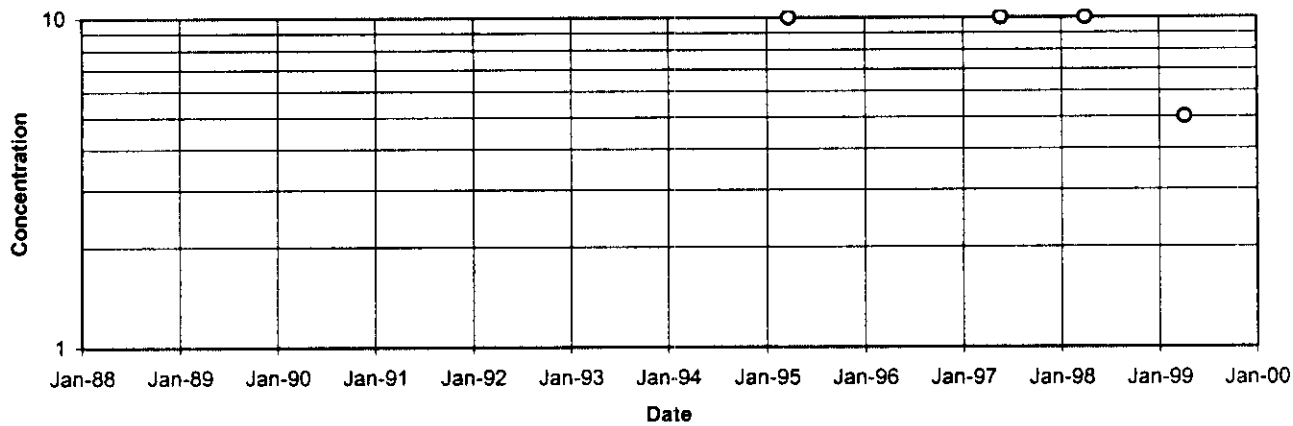
G120B



G130



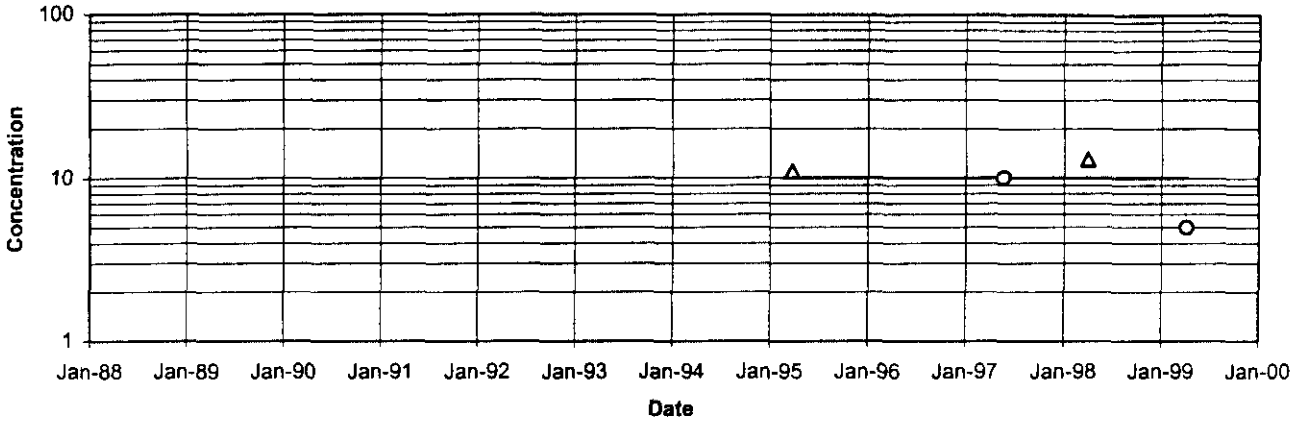
G132



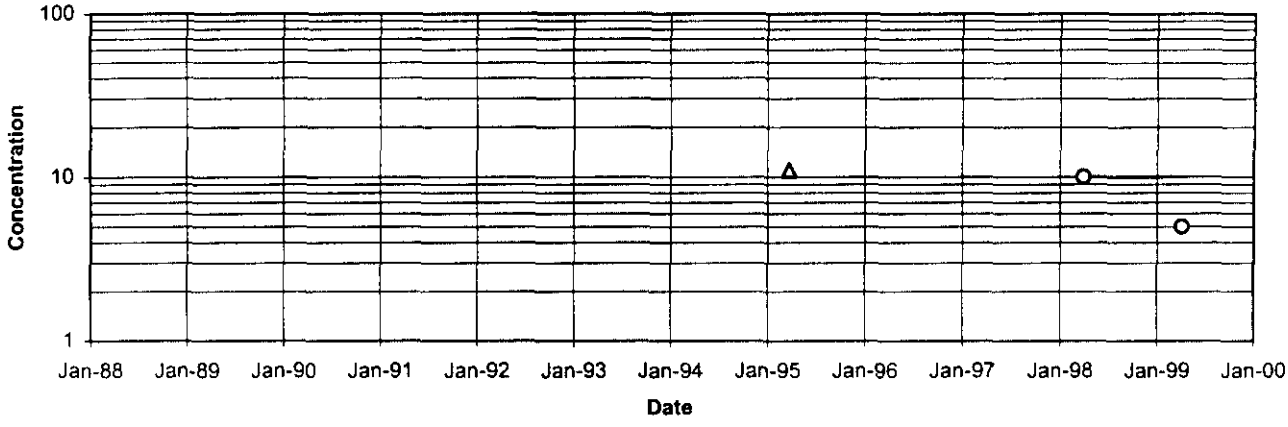
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

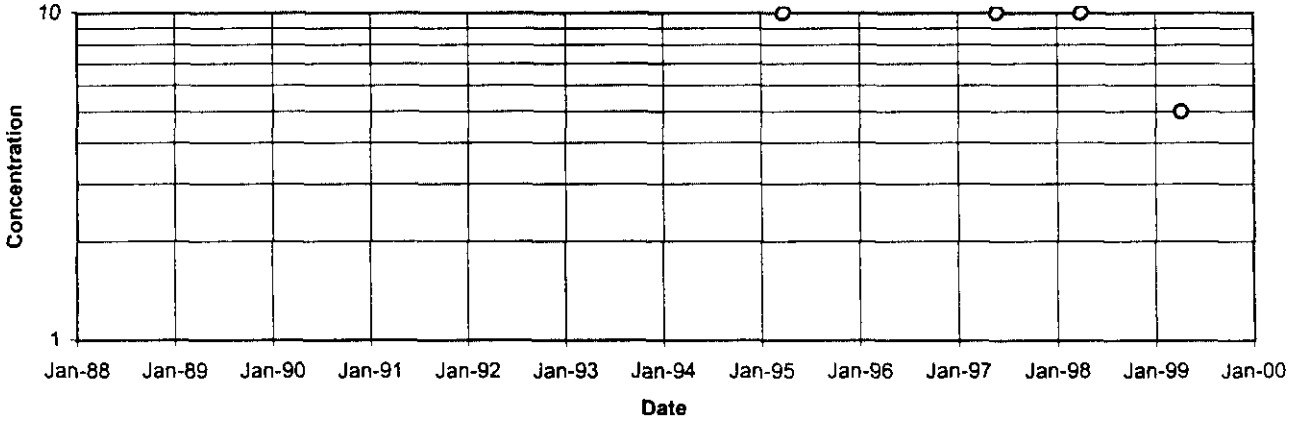
G33D



G33S



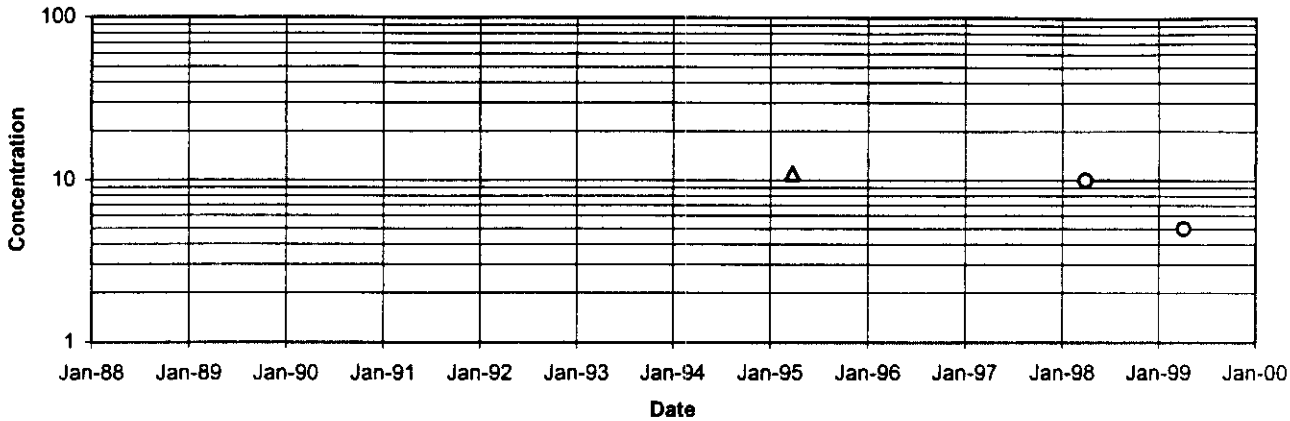
G34D



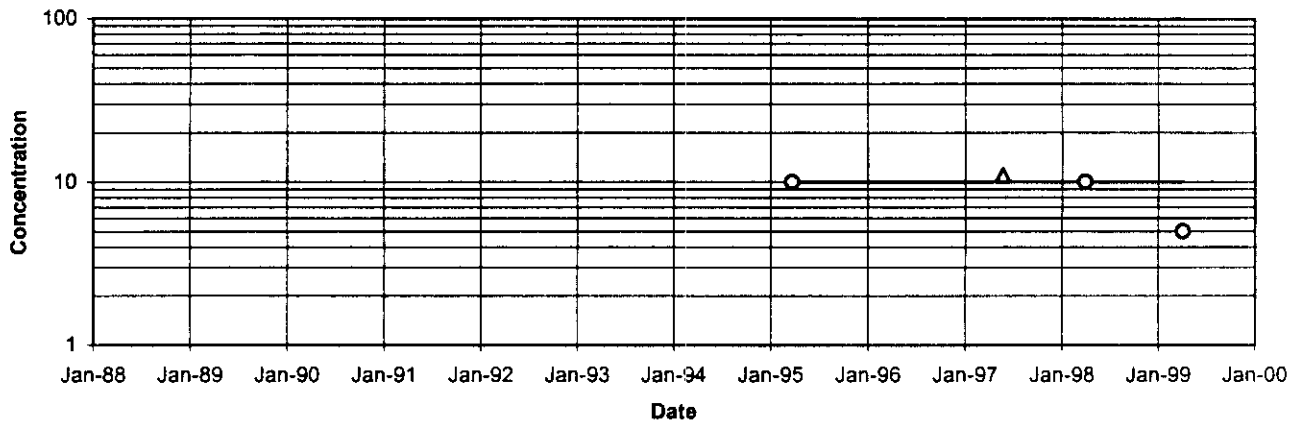
Acetone (ug/L)

AGQS Δ Concentration O NonDetect

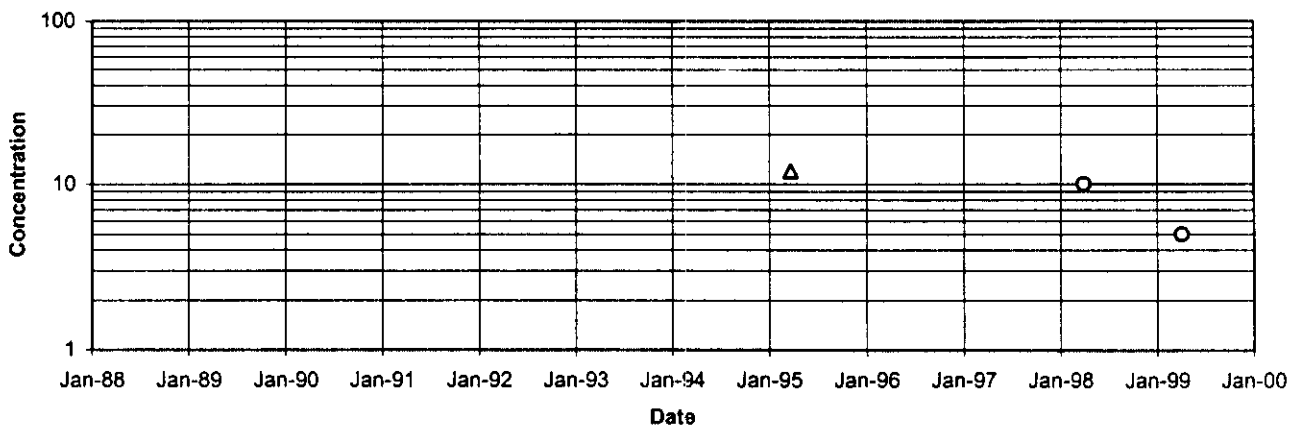
G34S



G35D



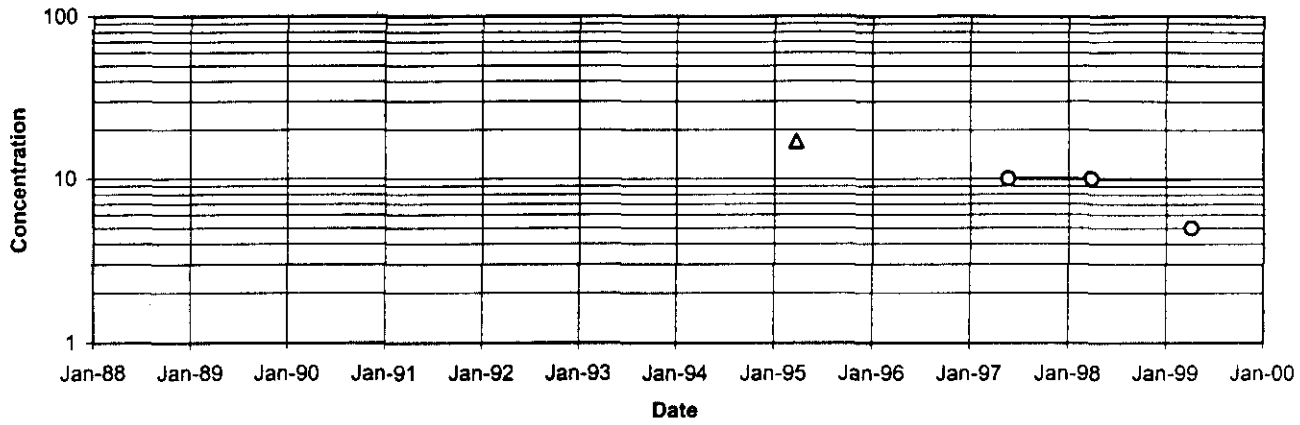
G35S



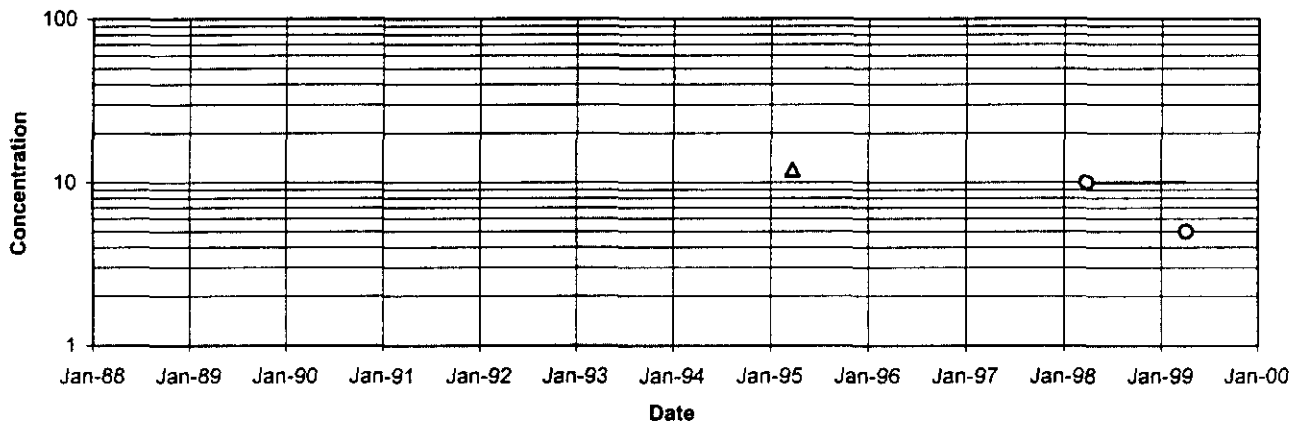
Acetone (ug/L)

AGQS Δ Concentration ○ NonDetect

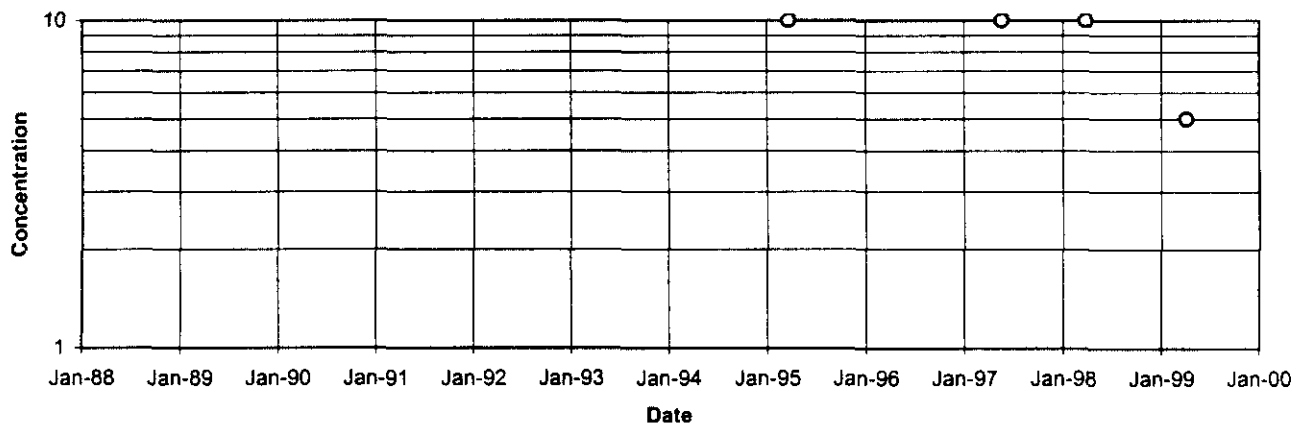
G36



G37D



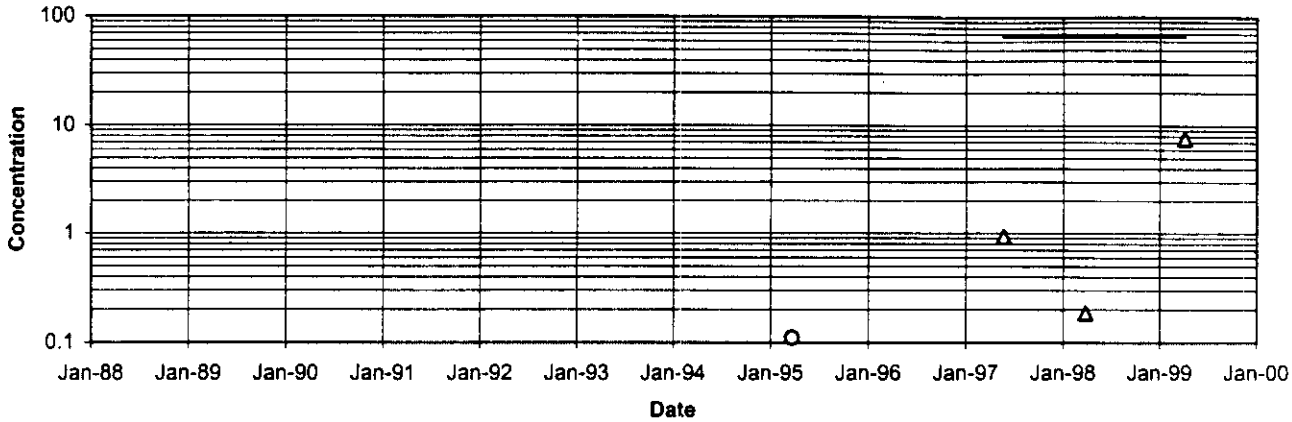
G37S



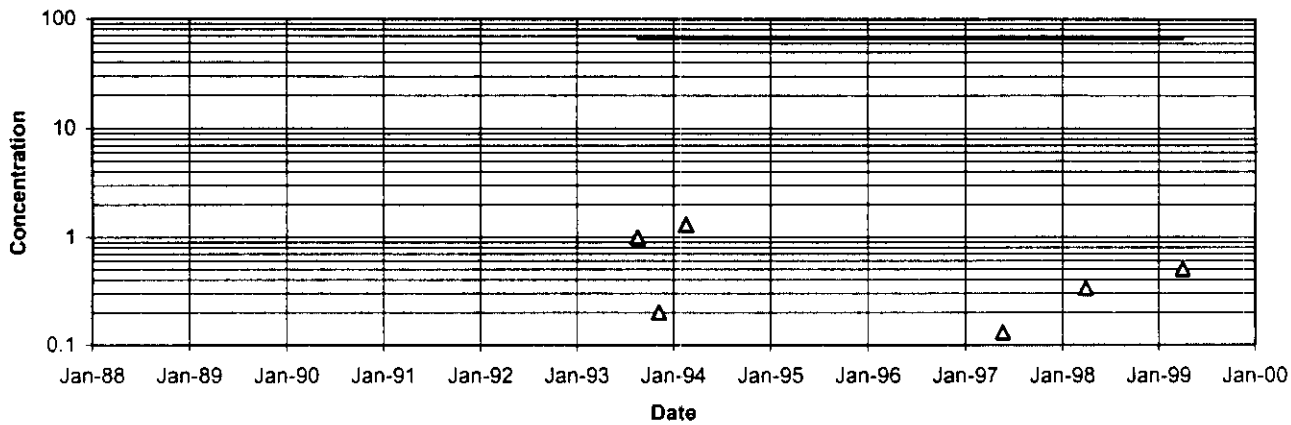
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

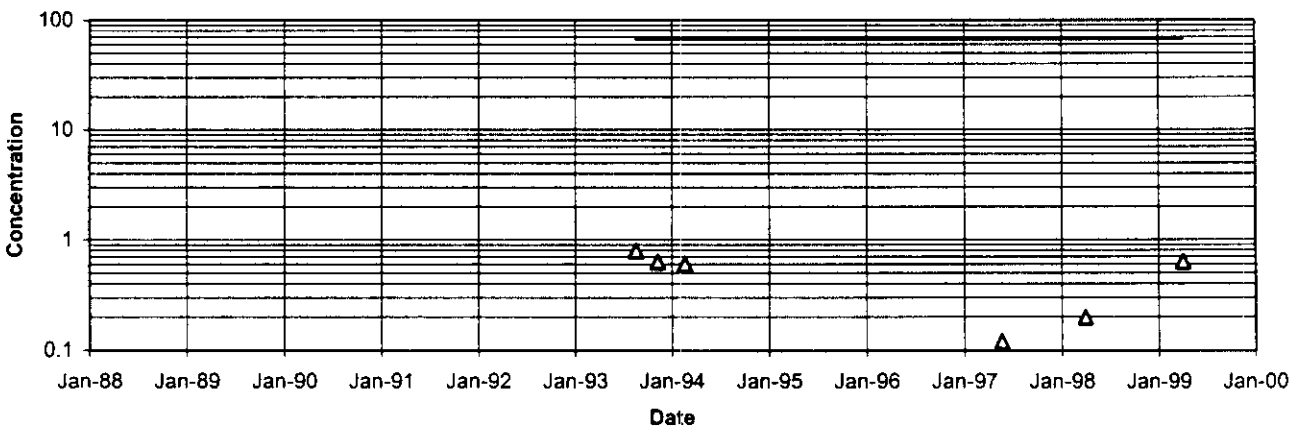
B15R



G109



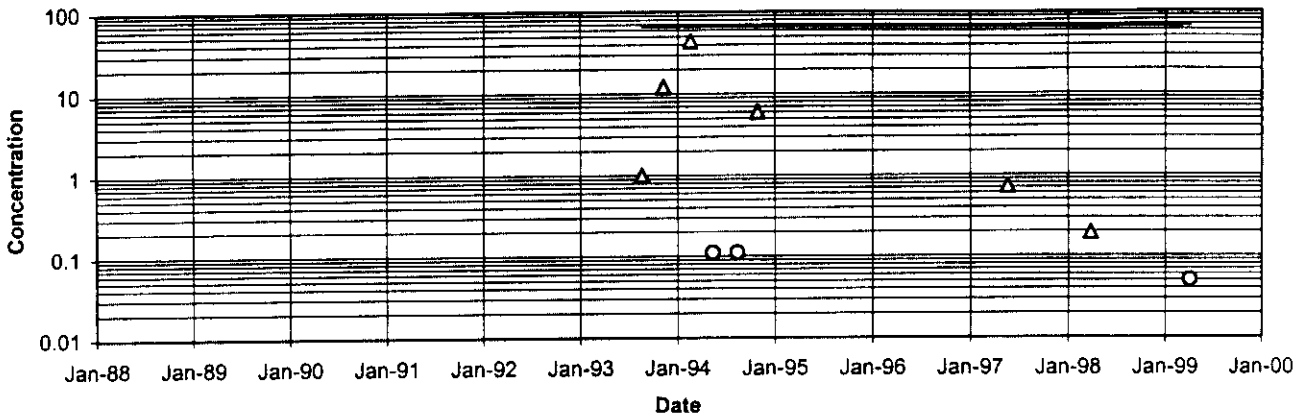
G109A



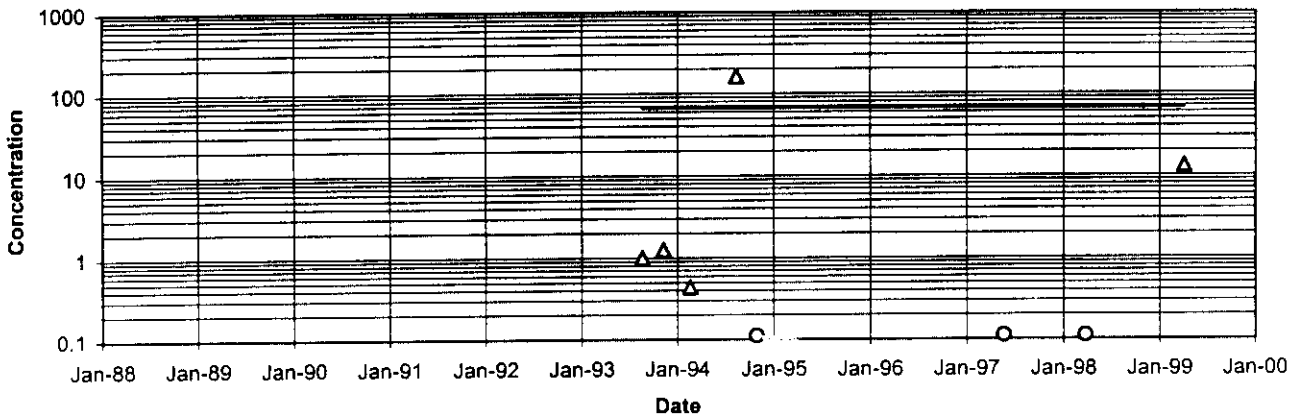
Aluminum (mg/L)

AGQS Δ Concentration ○ NonDetect

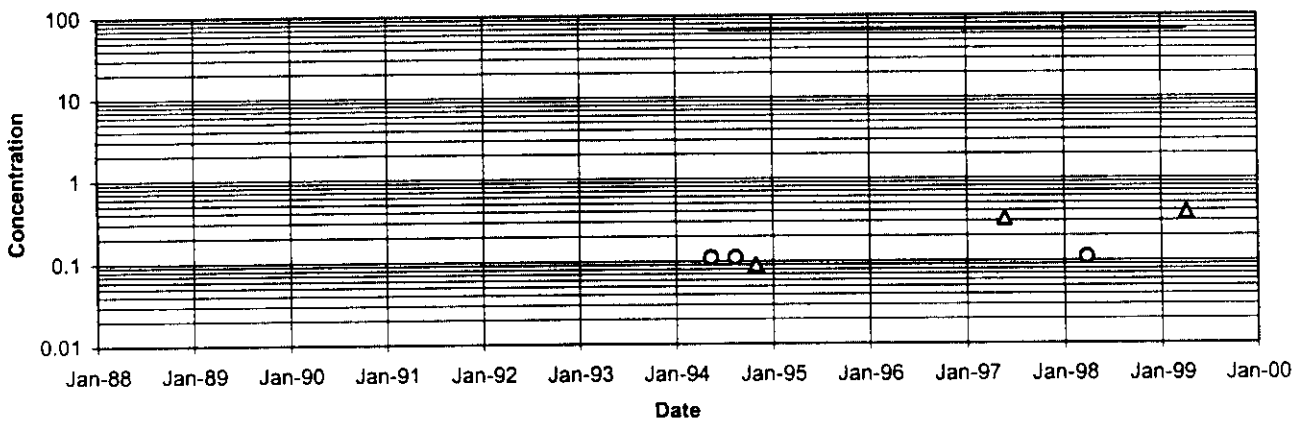
G113



G113A



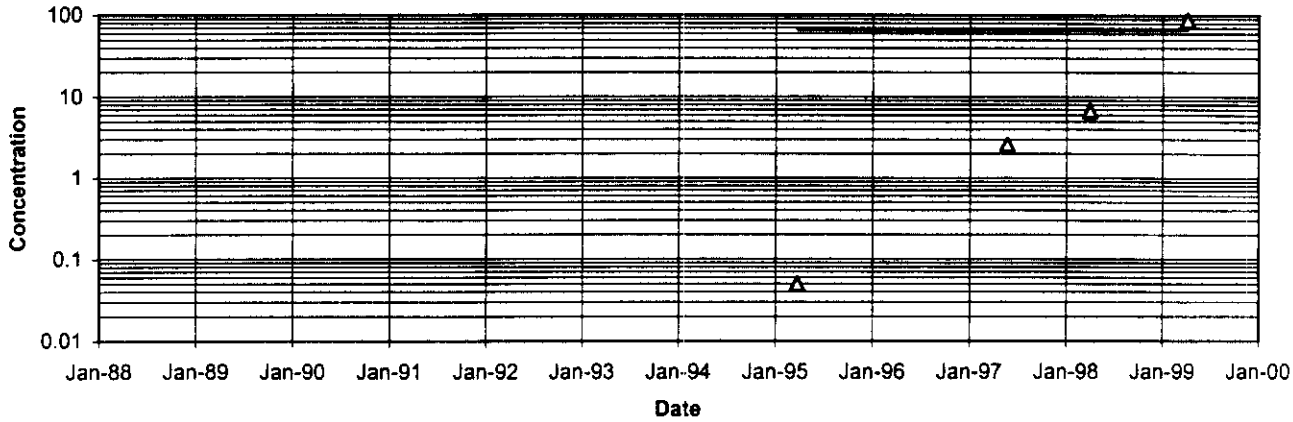
G114



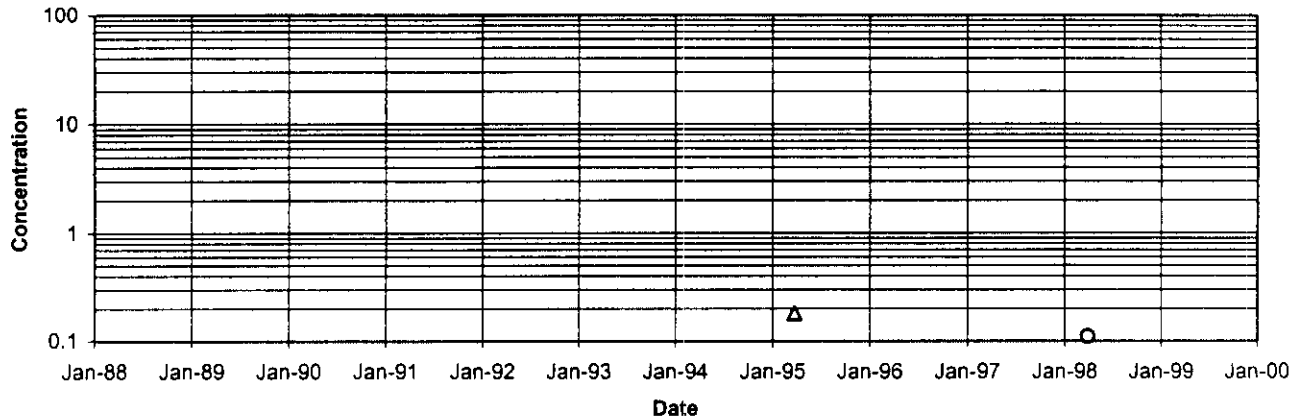
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

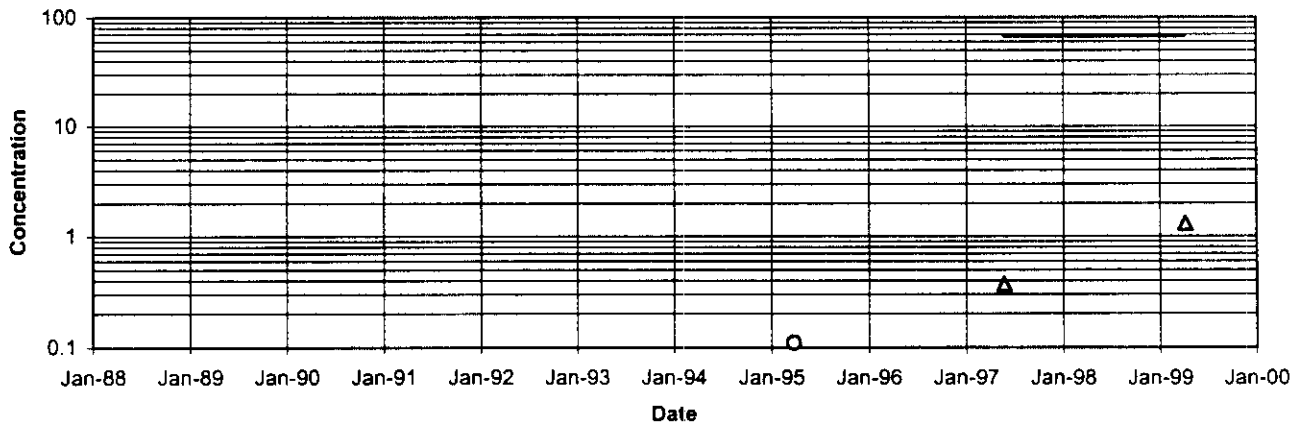
G115



G116



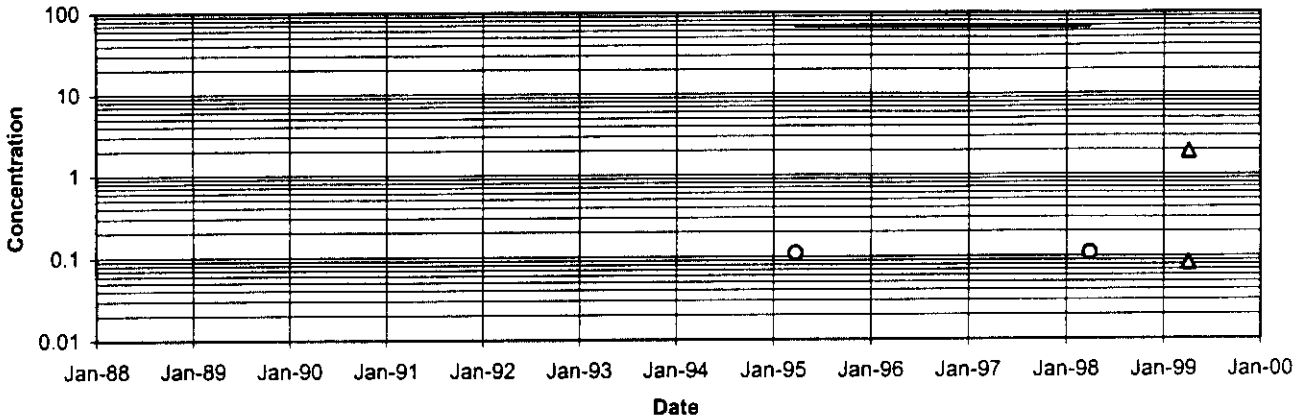
G116A



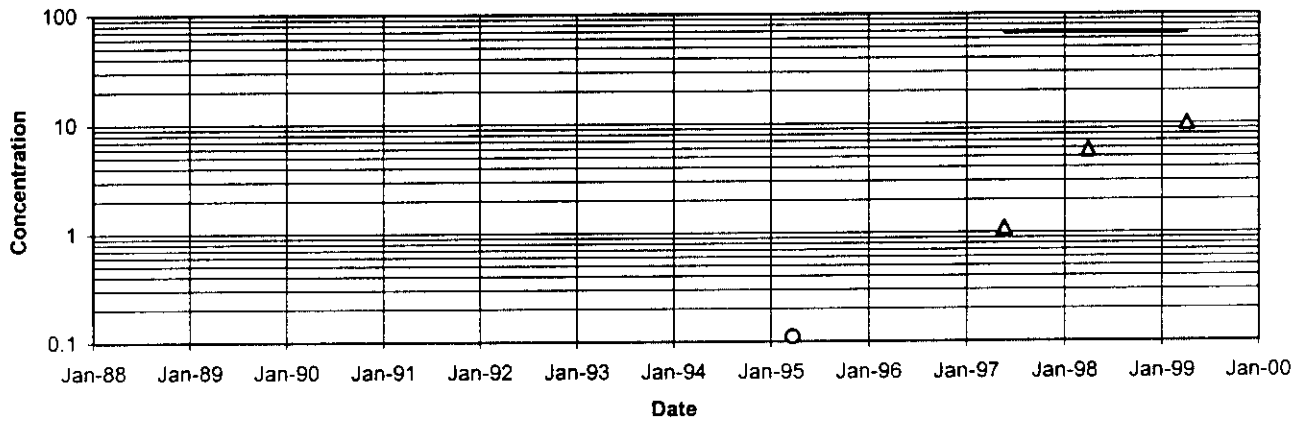
Aluminum (mg/L)

AGQS Δ Concentration ○ NonDetect

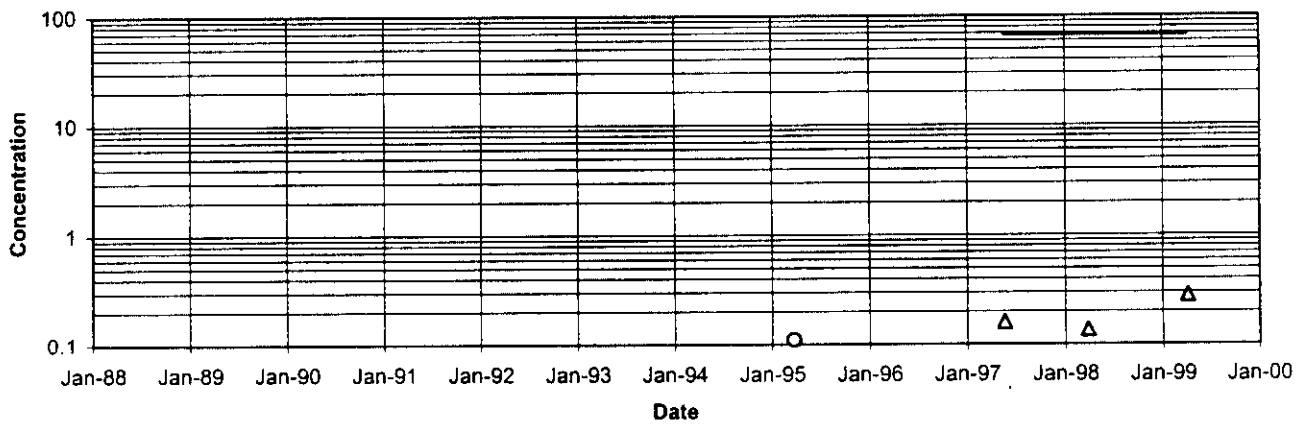
G116D



G117



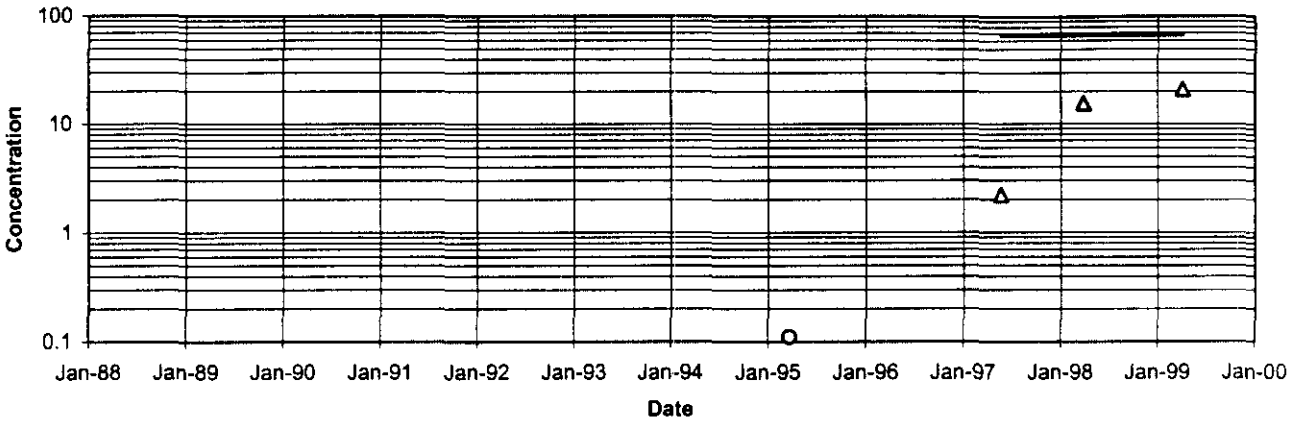
G118A



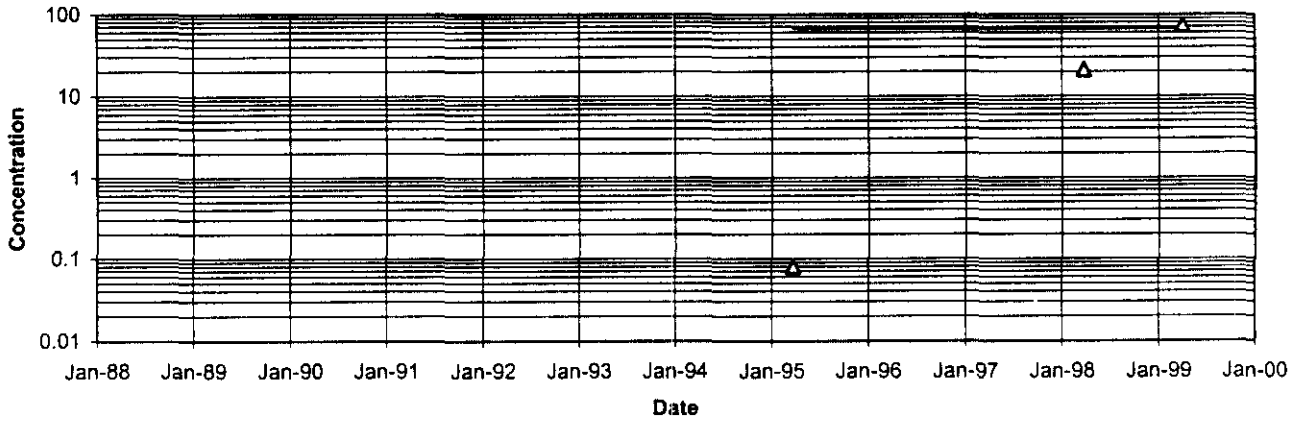
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

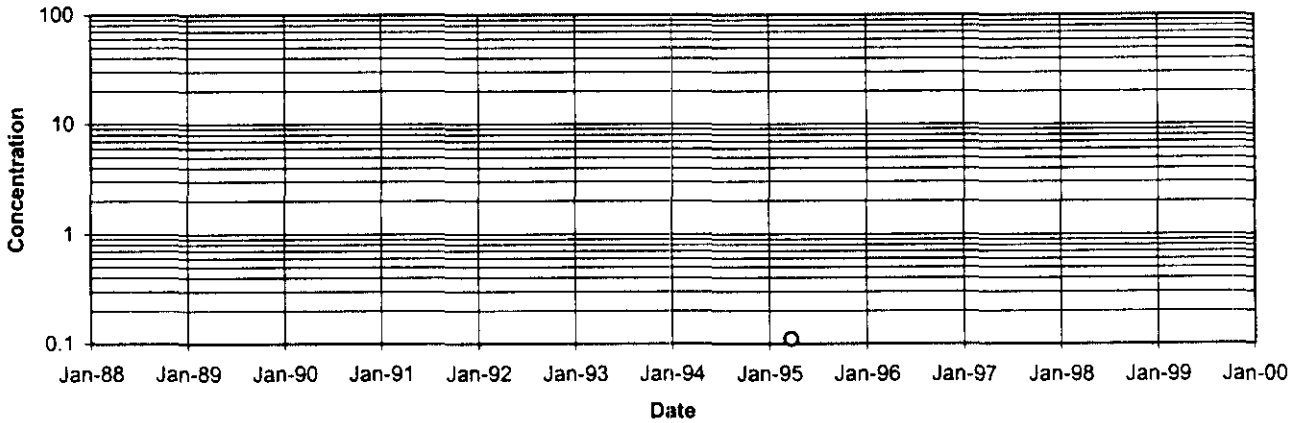
G118R



G119



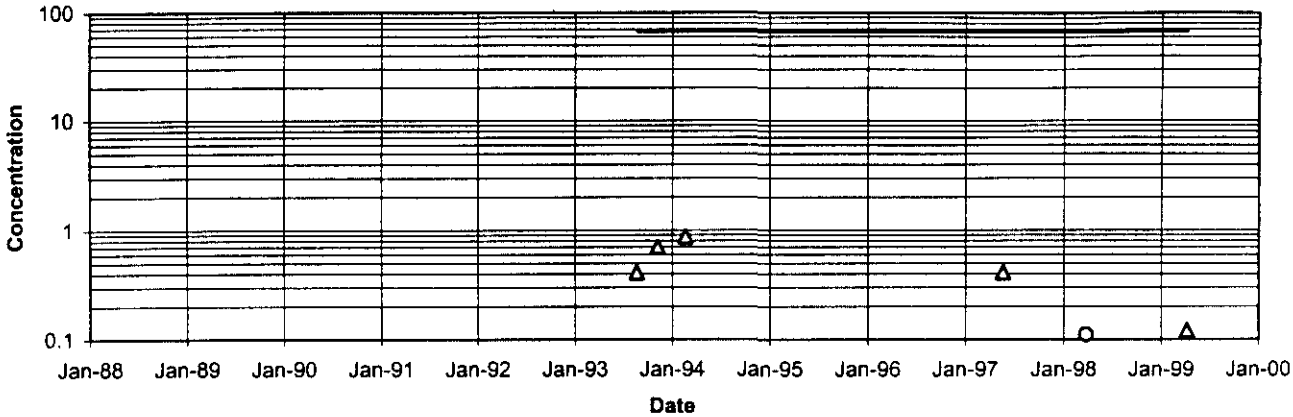
G119A



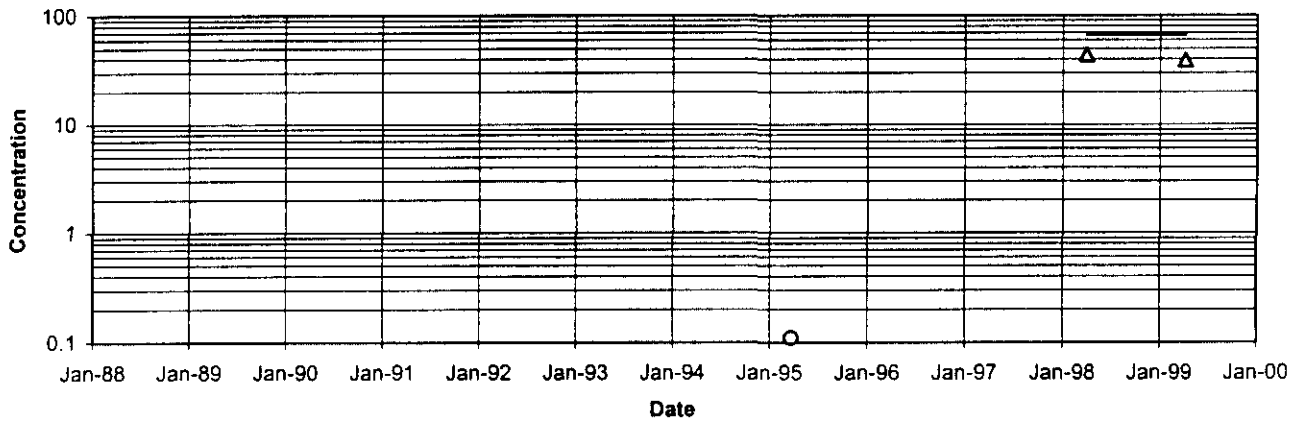
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

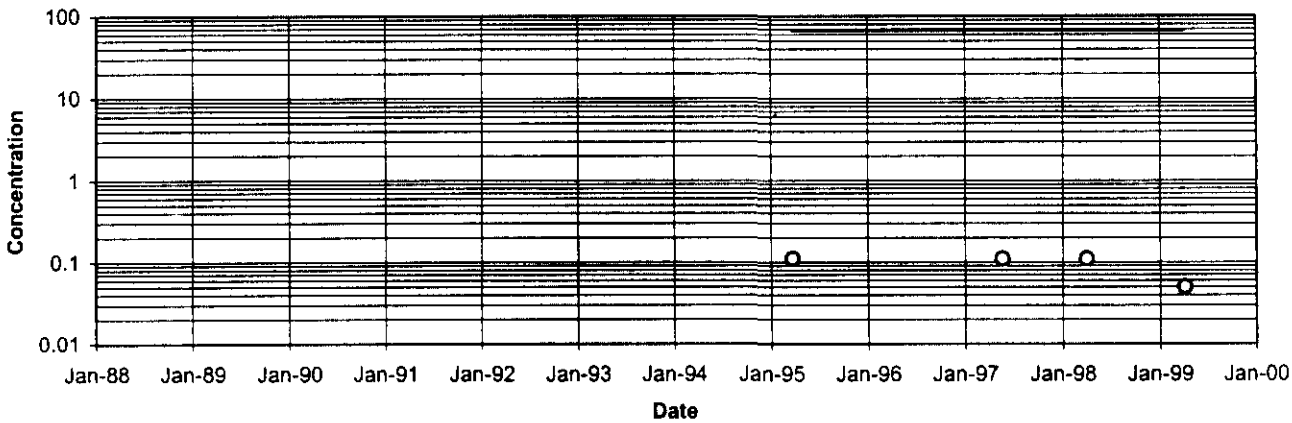
G120B



G130



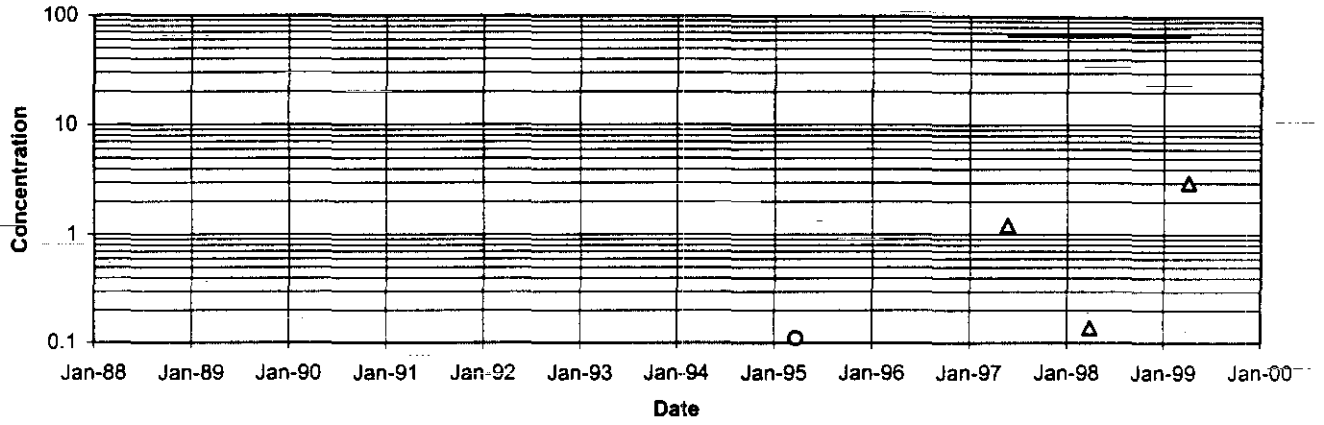
G132



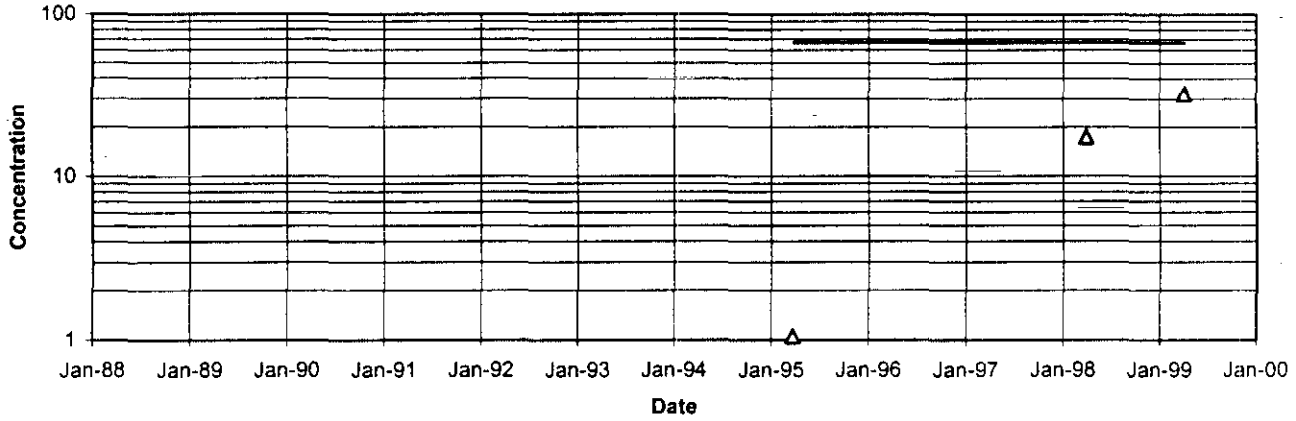
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

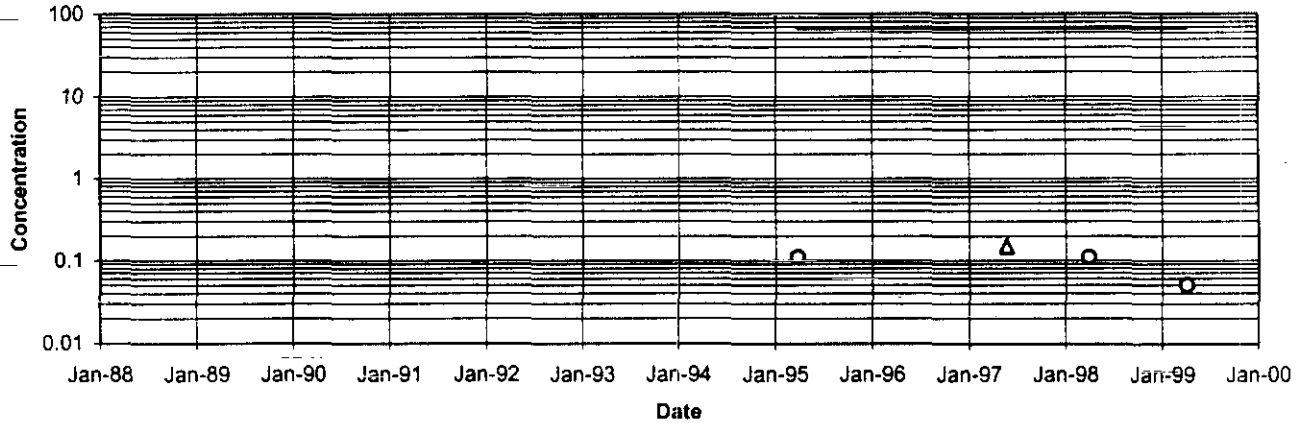
G33D



G33S



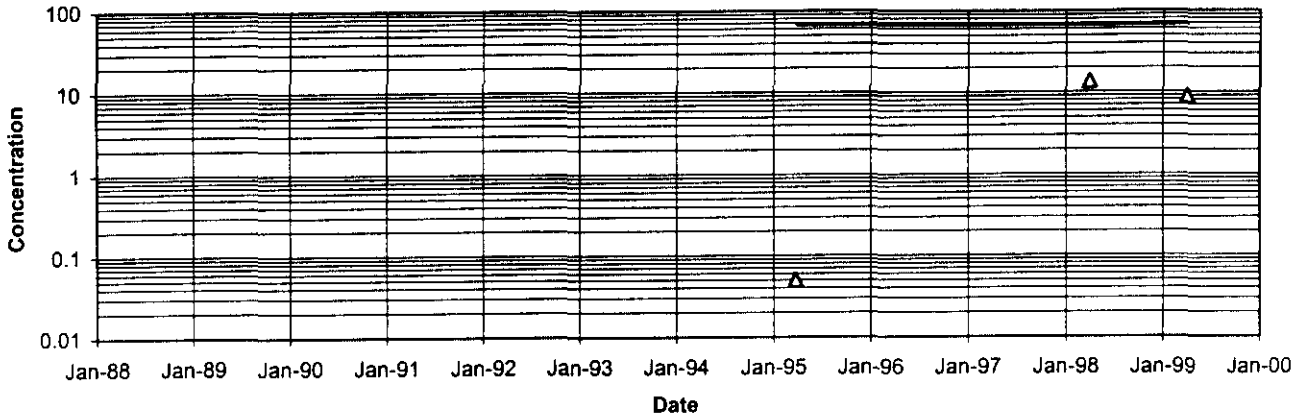
G34D



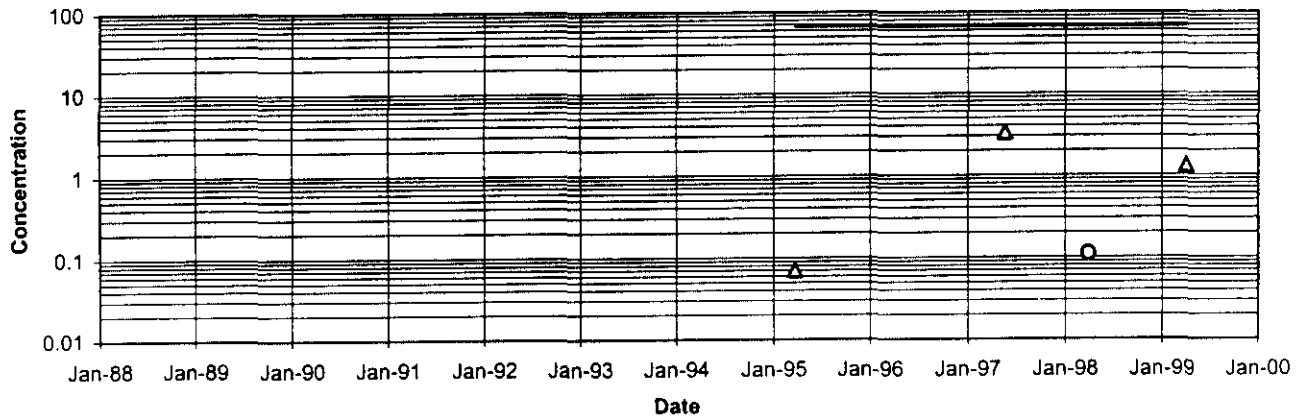
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

G34S



G35D



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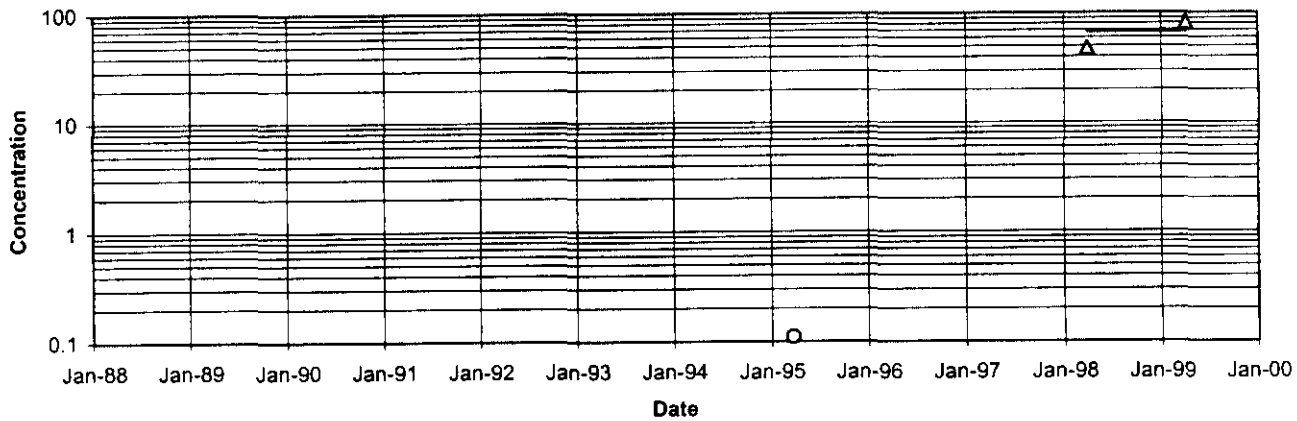
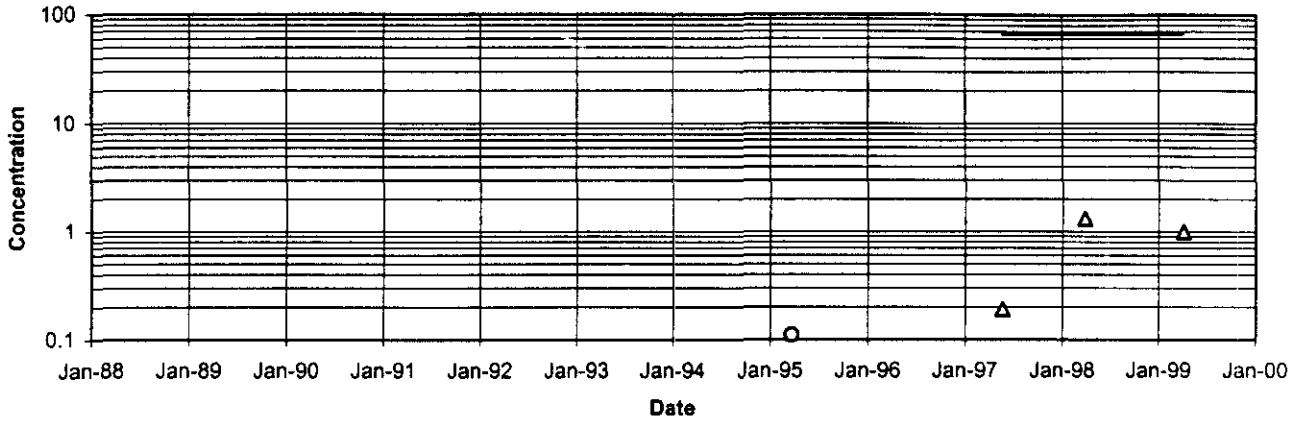


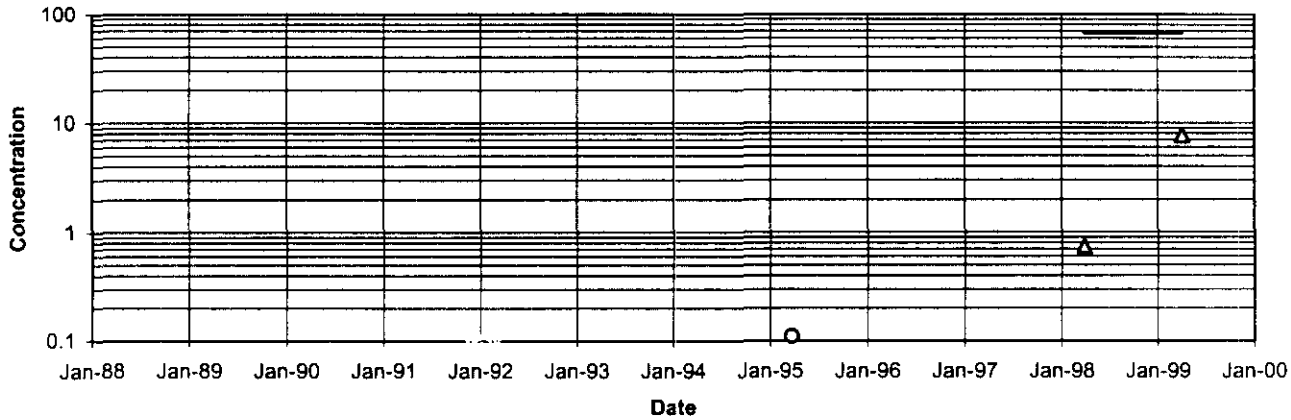
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

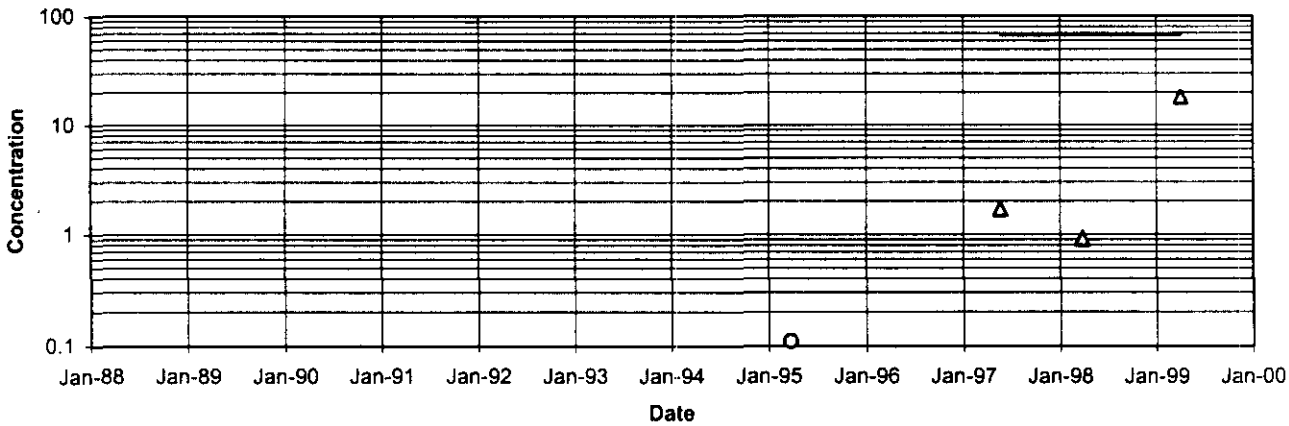
G36



G37D



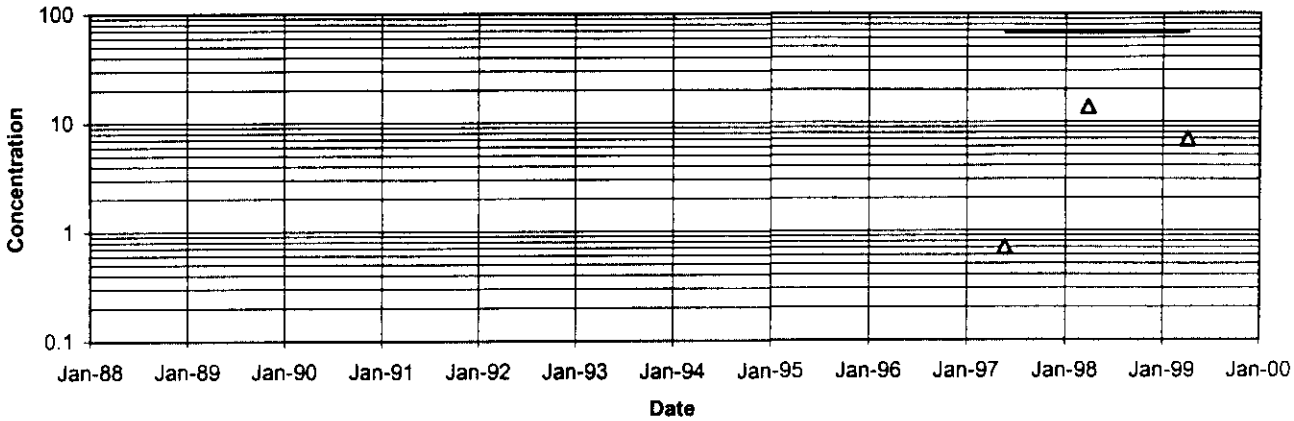
G37S



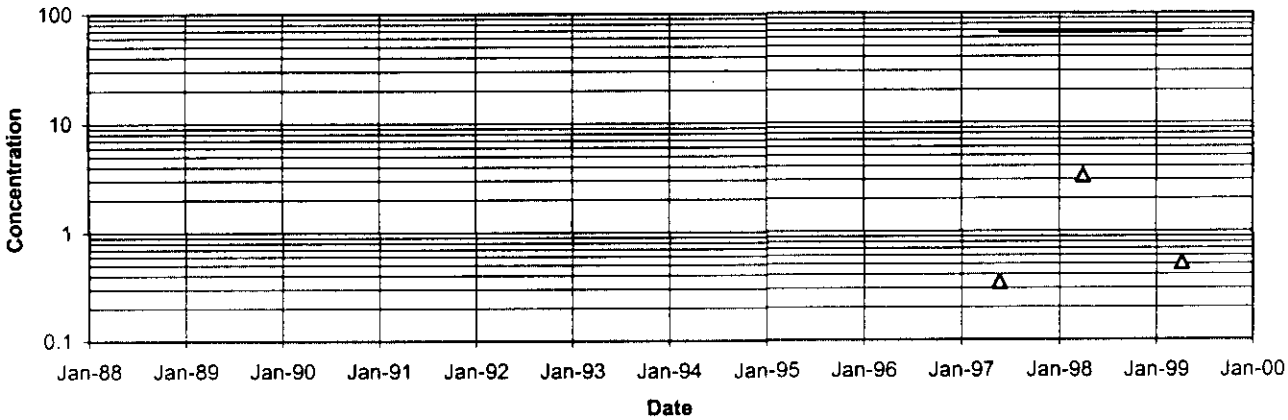
Aluminum (mg/L)

AGQS Δ Concentration ○ NonDetect

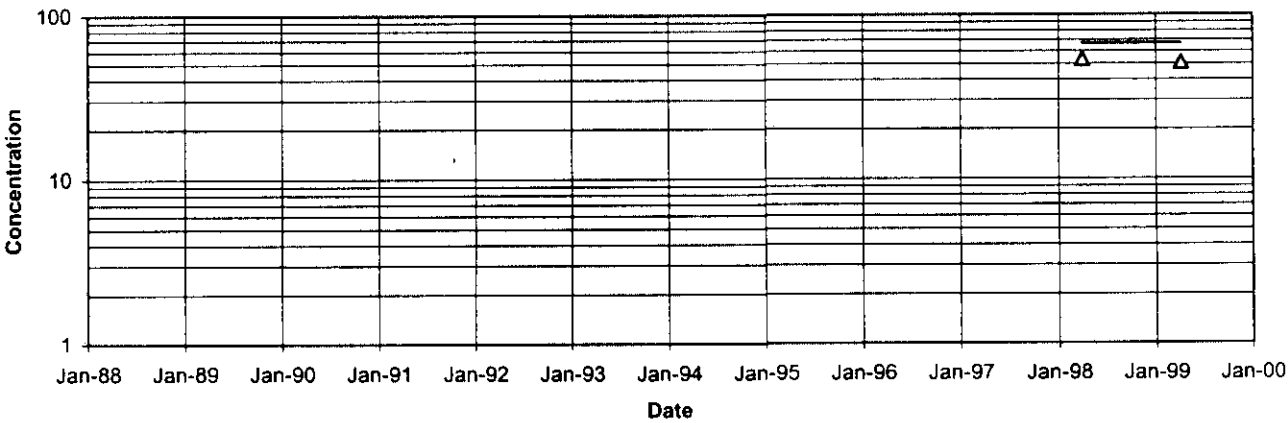
G38



G39



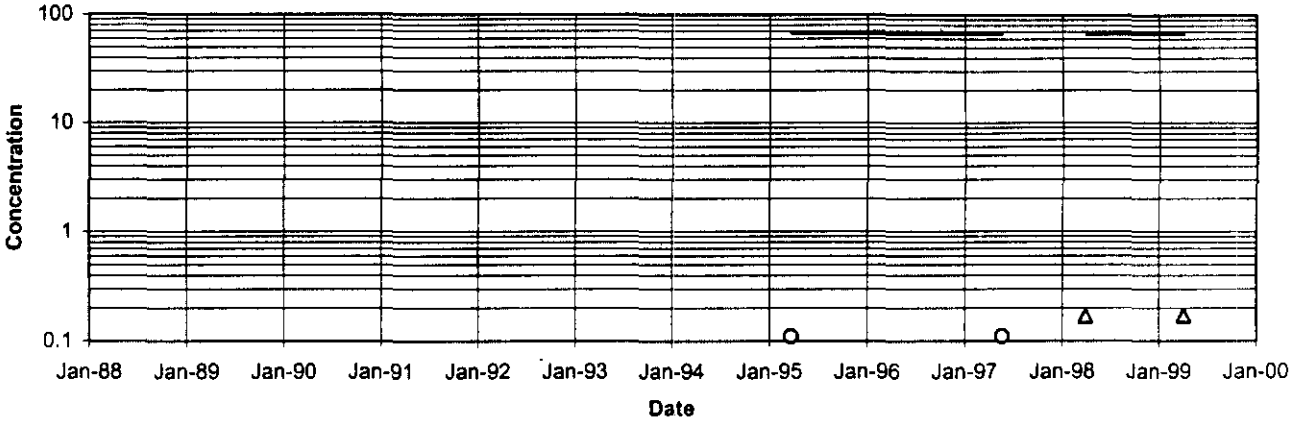
G40



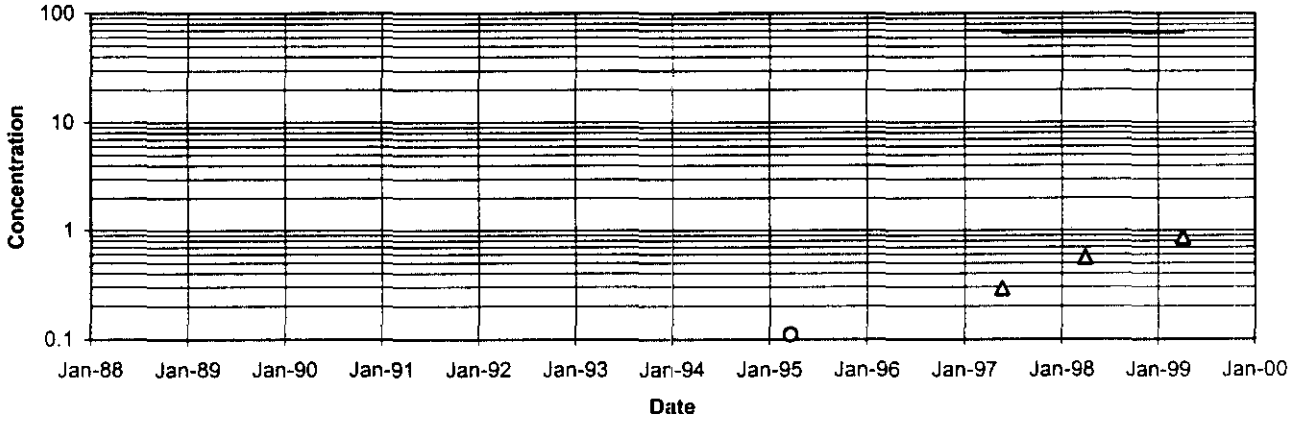
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

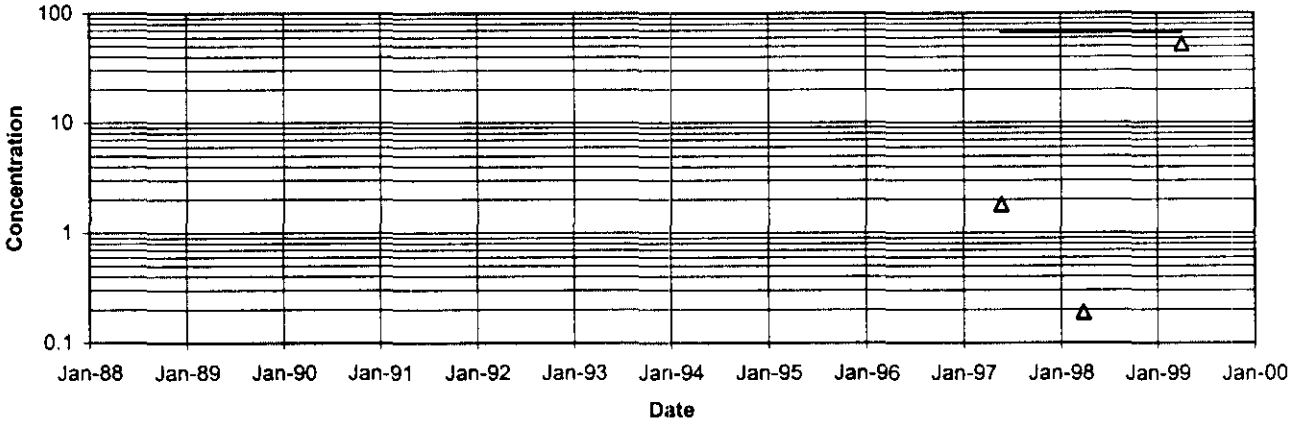
MW106



P1



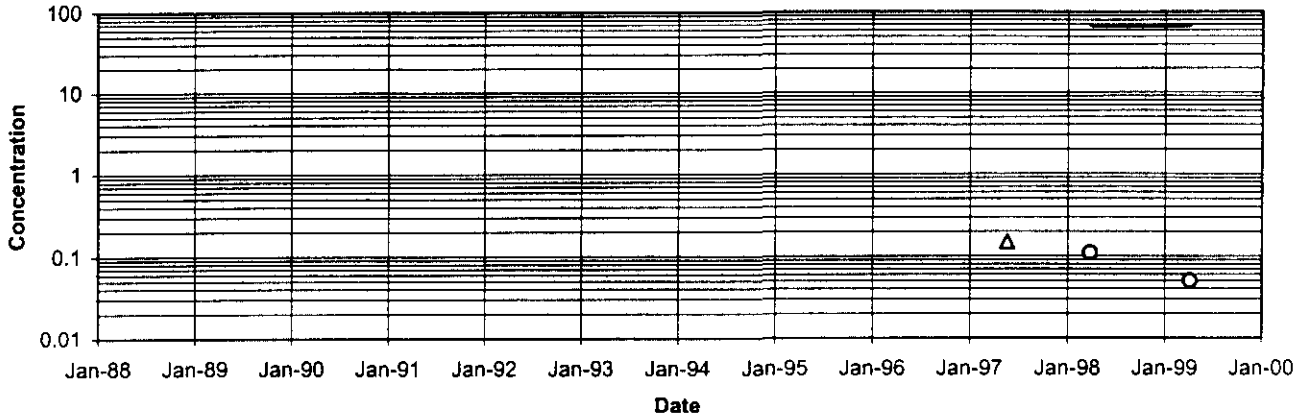
P3R



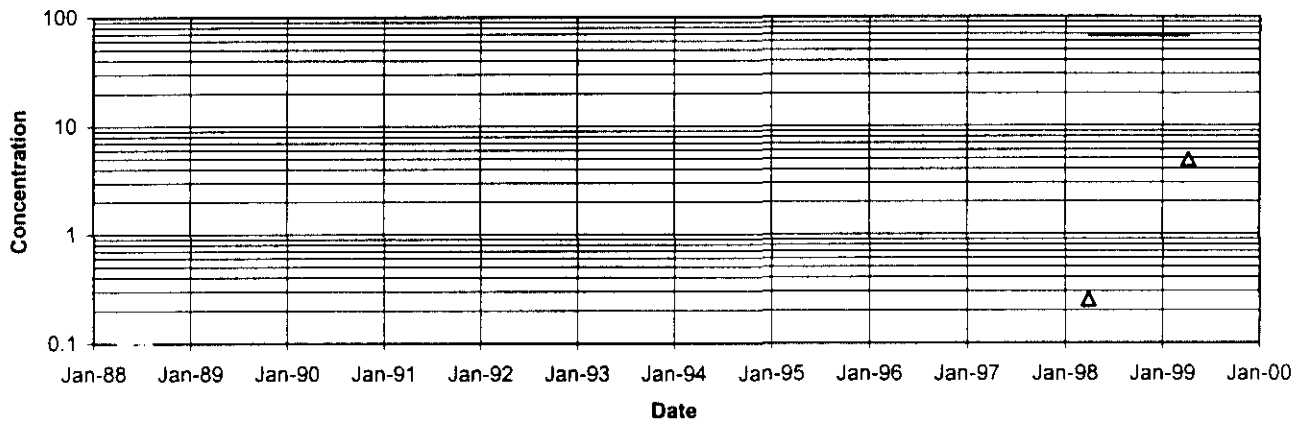
Aluminum (mg/L)

AGQS Δ Concentration O NonDetect

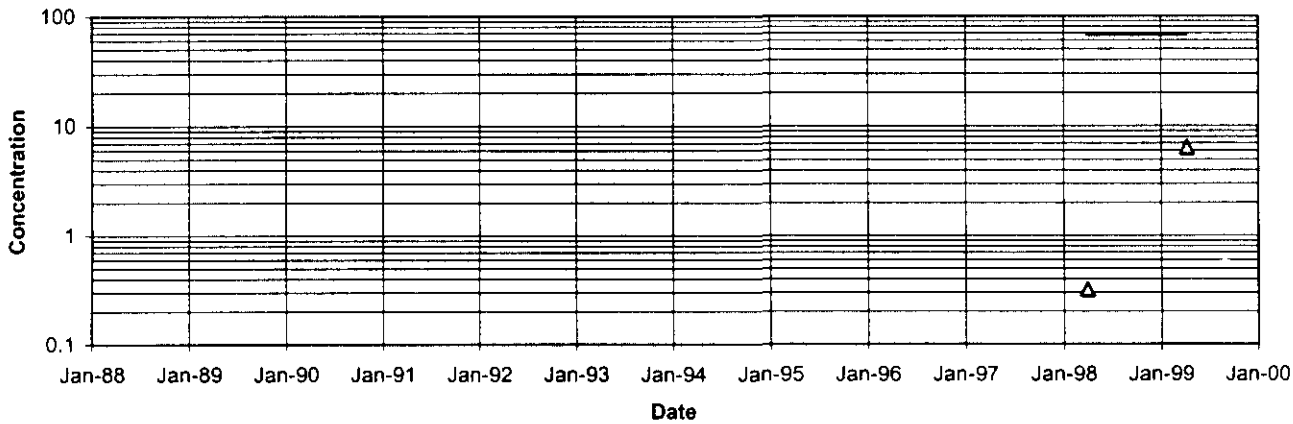
P4R



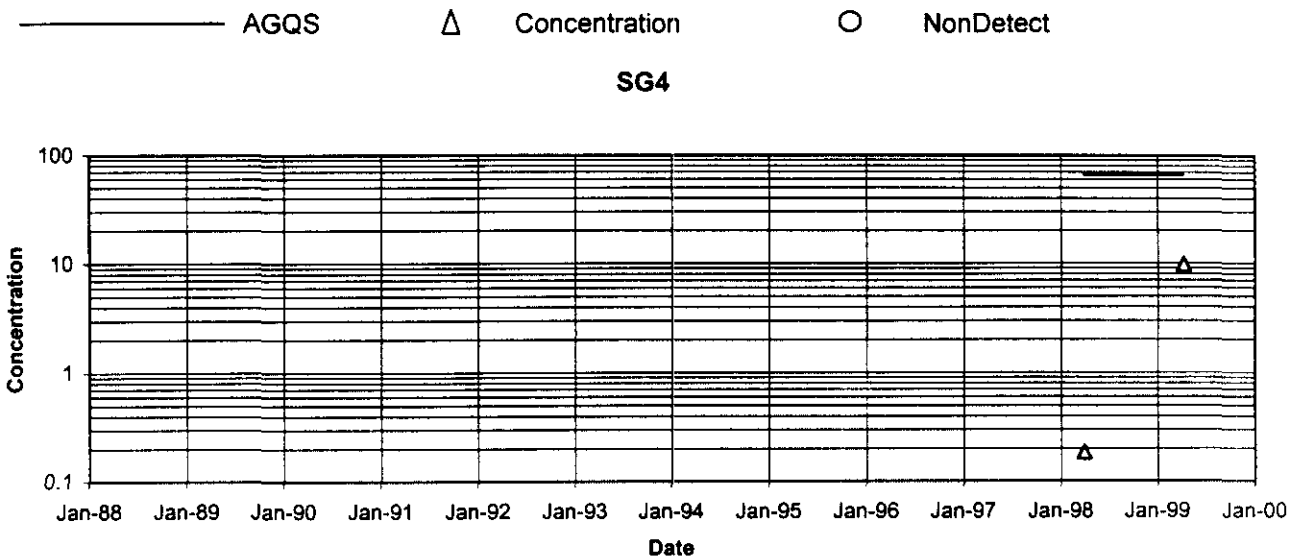
SG1



SG3



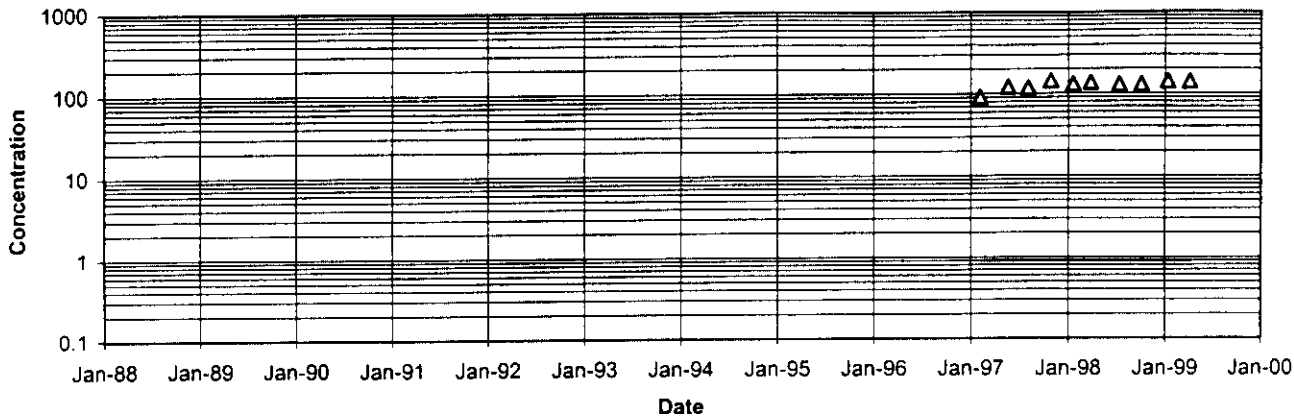
Aluminum (mg/L)



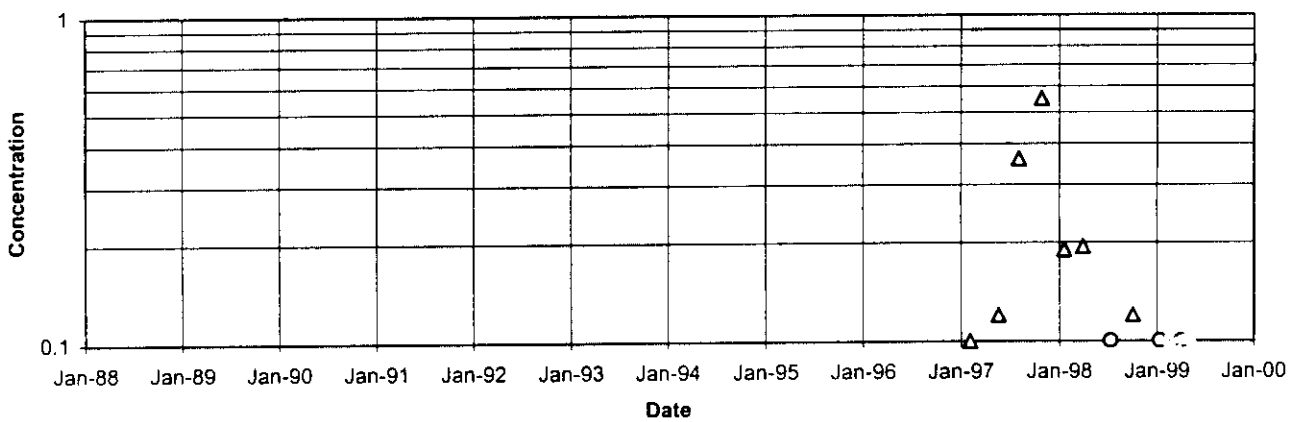
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

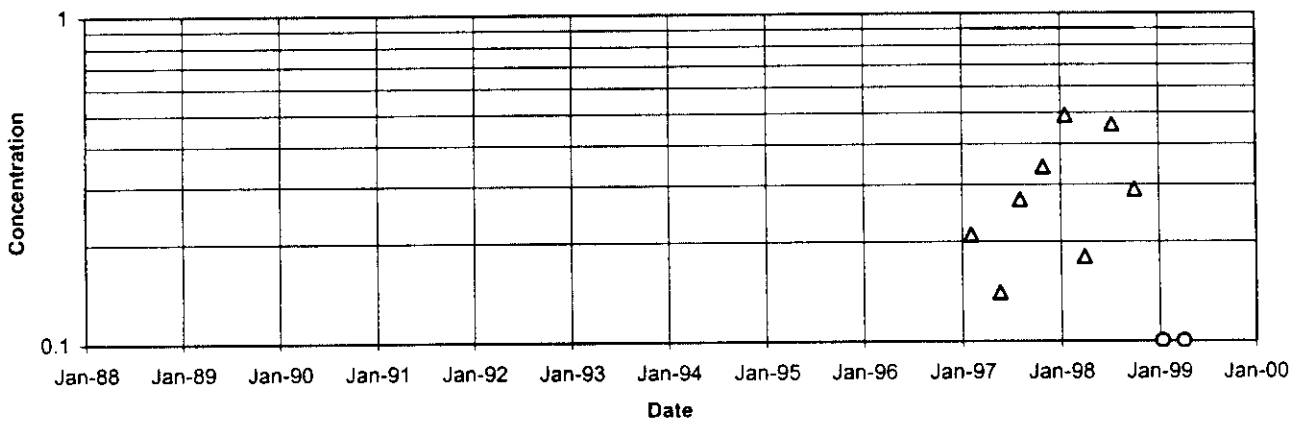
B15R



G109



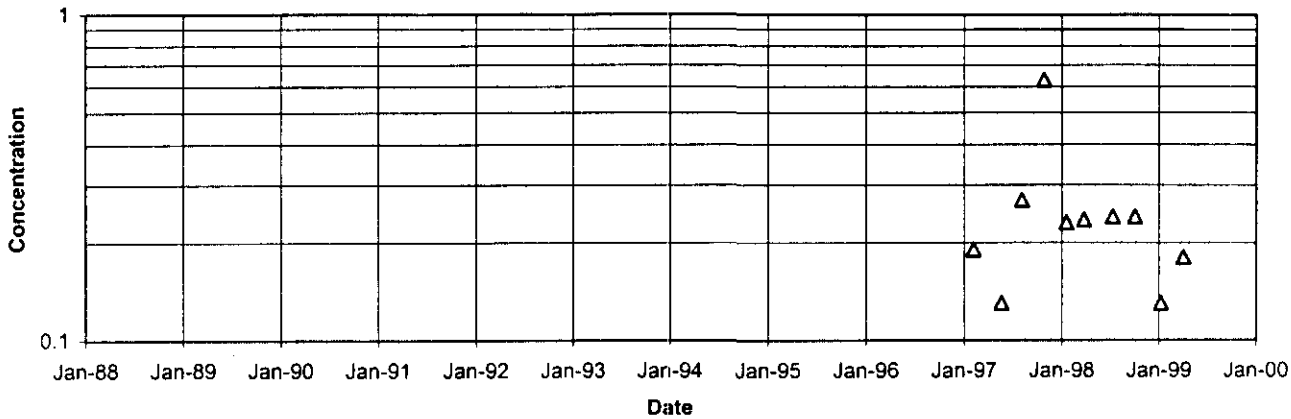
G109A



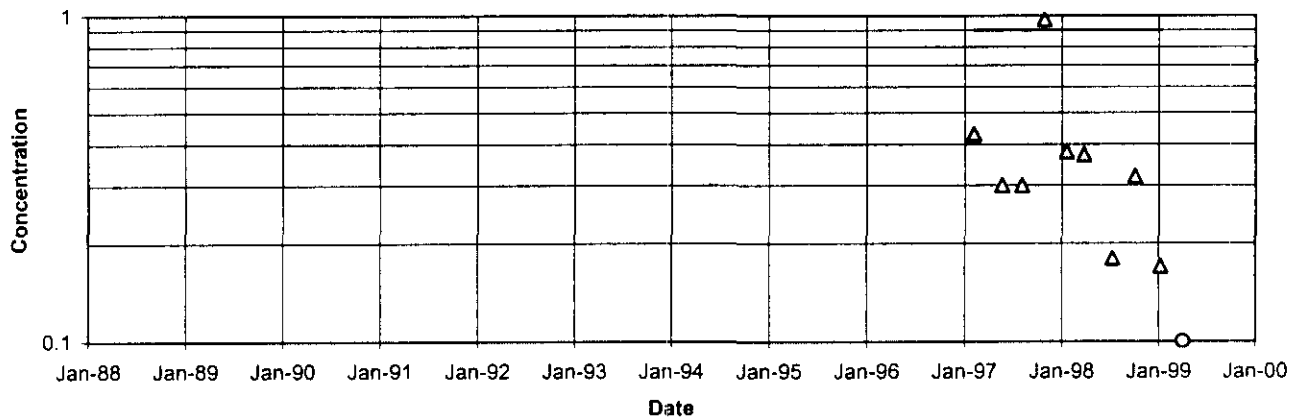
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

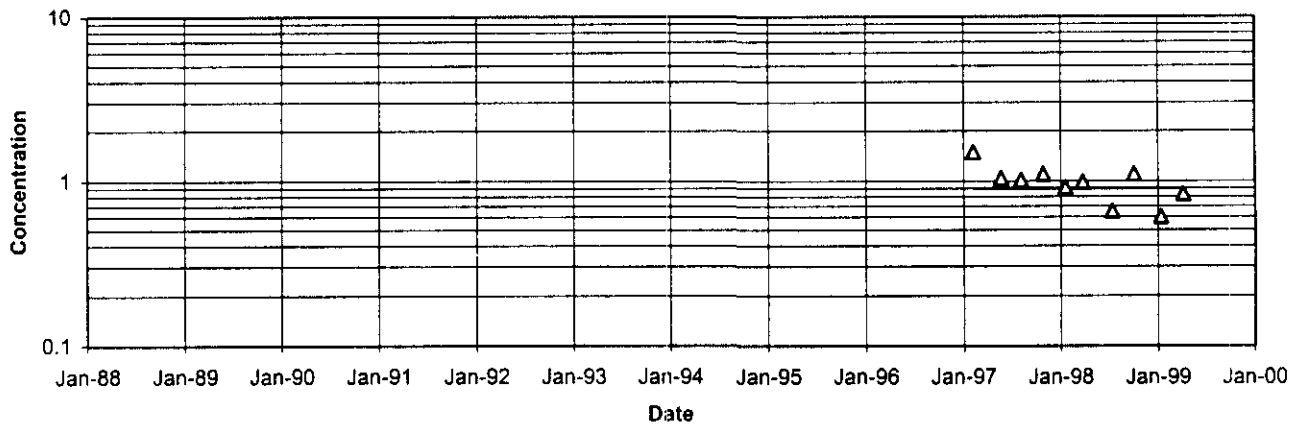
G113



G113A



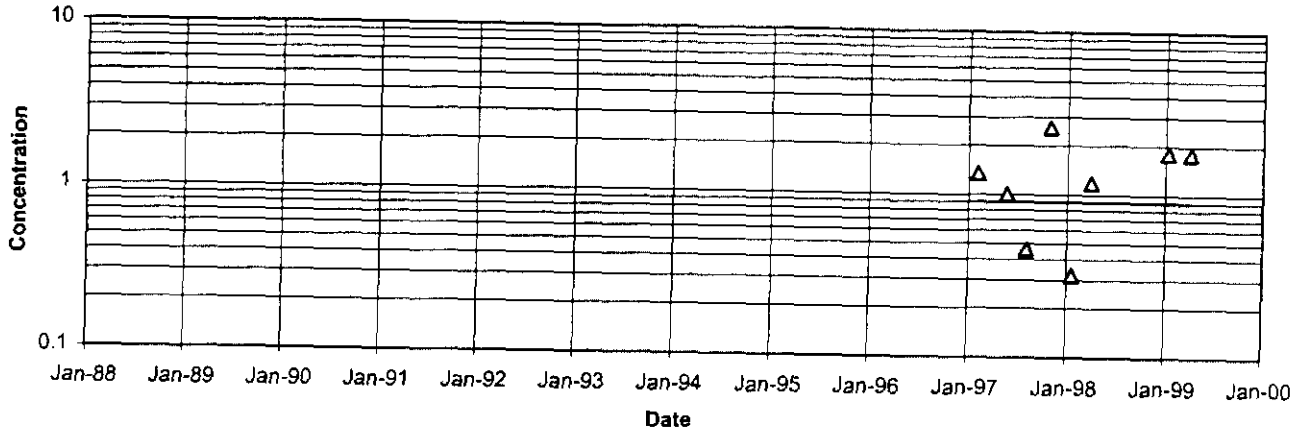
G114



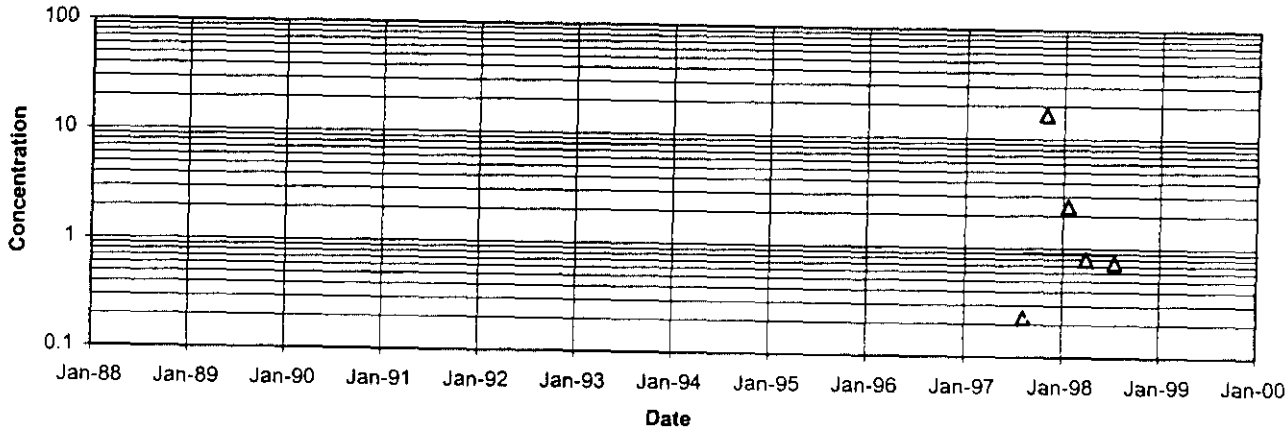
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

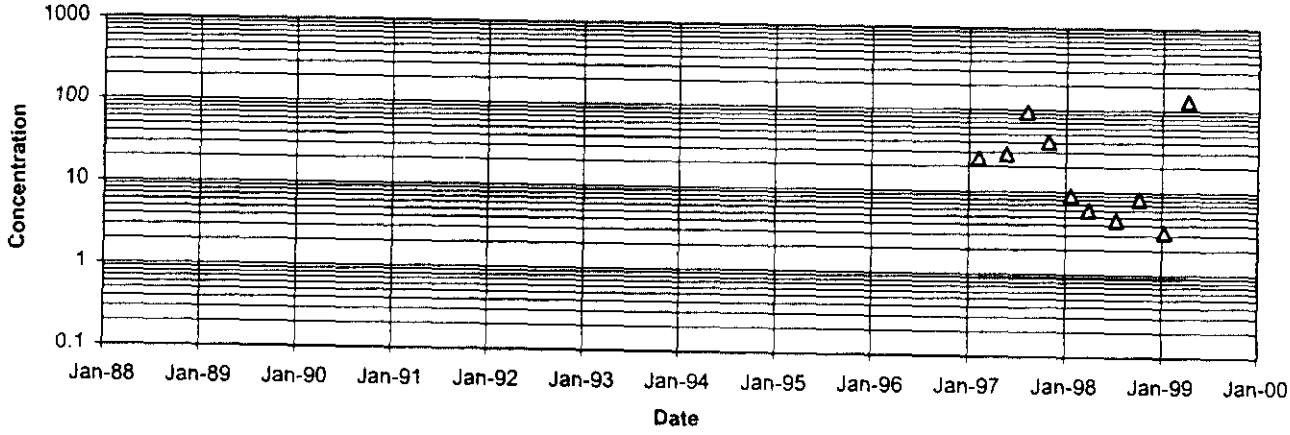
G115



G116



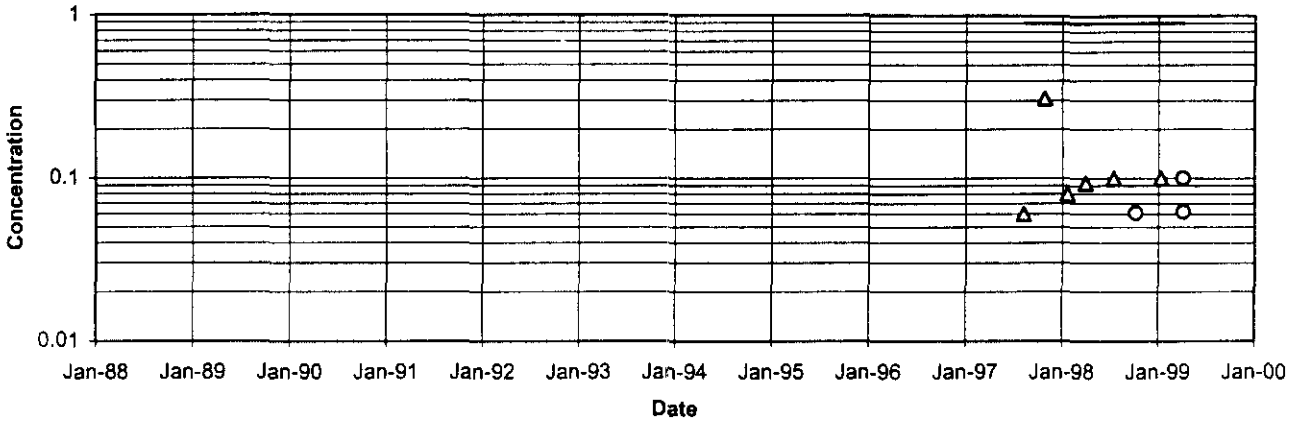
G116A



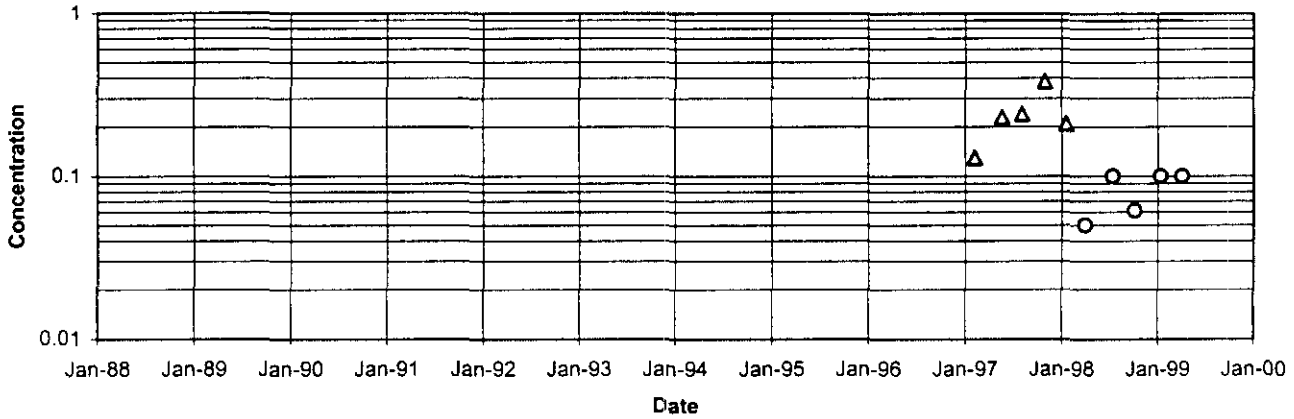
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

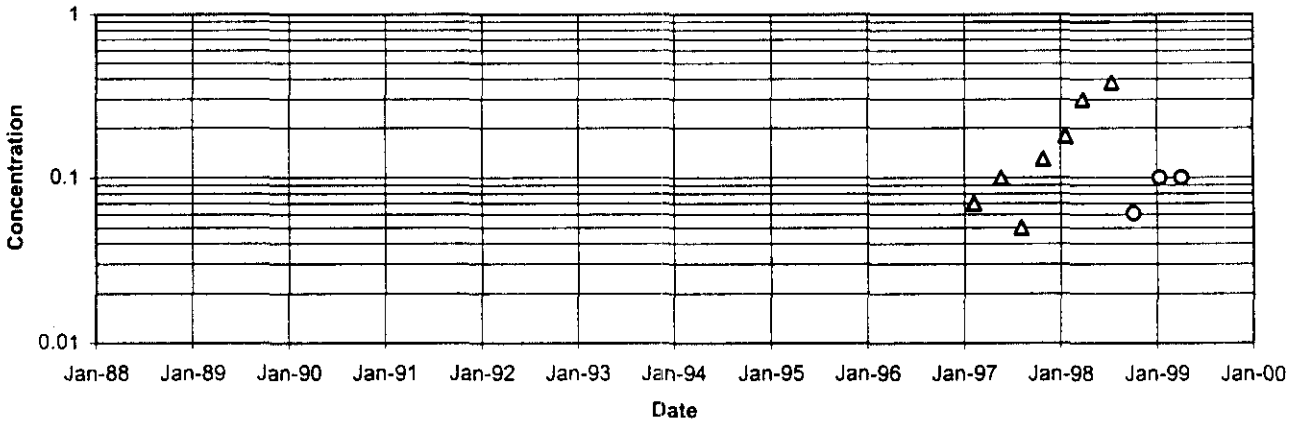
G116D



G117



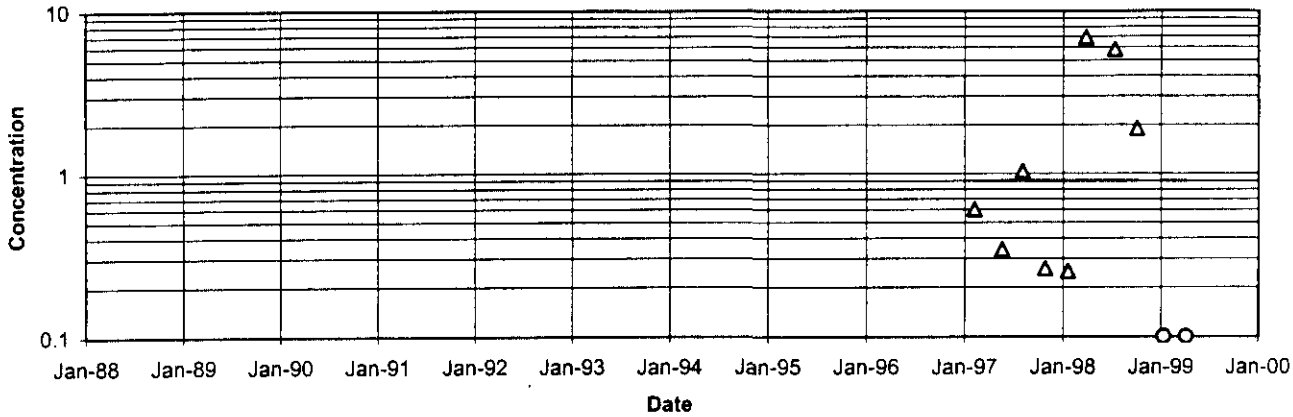
G118A



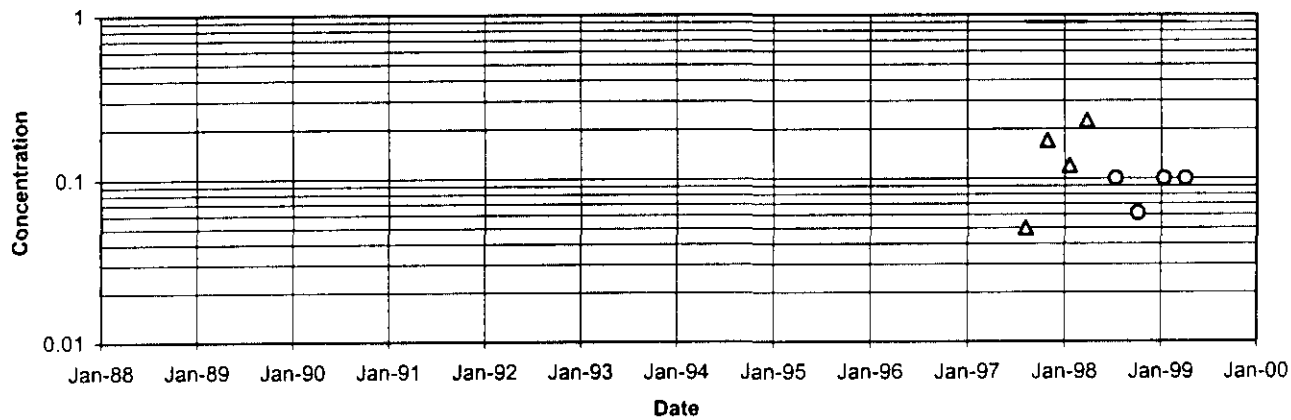
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

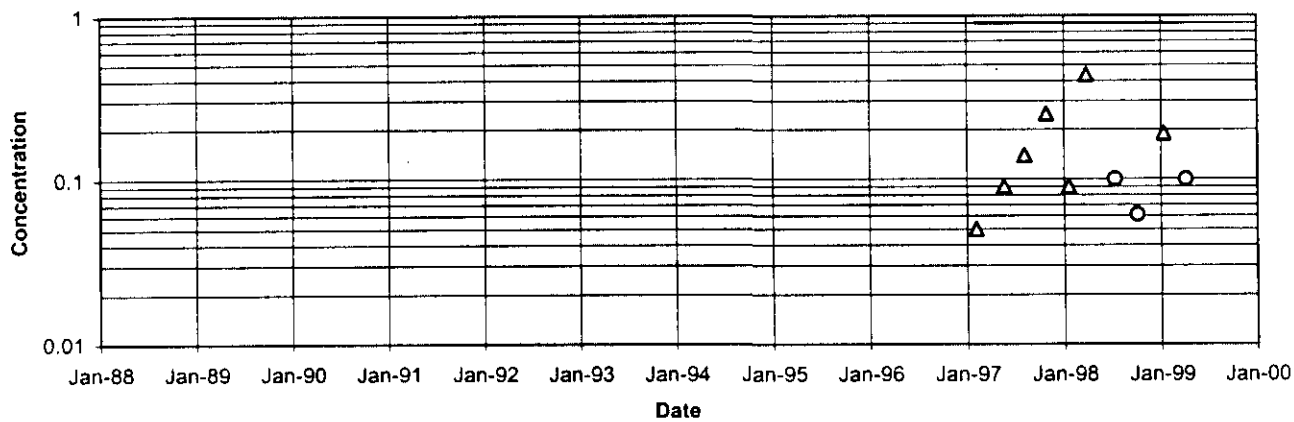
G118R



G119



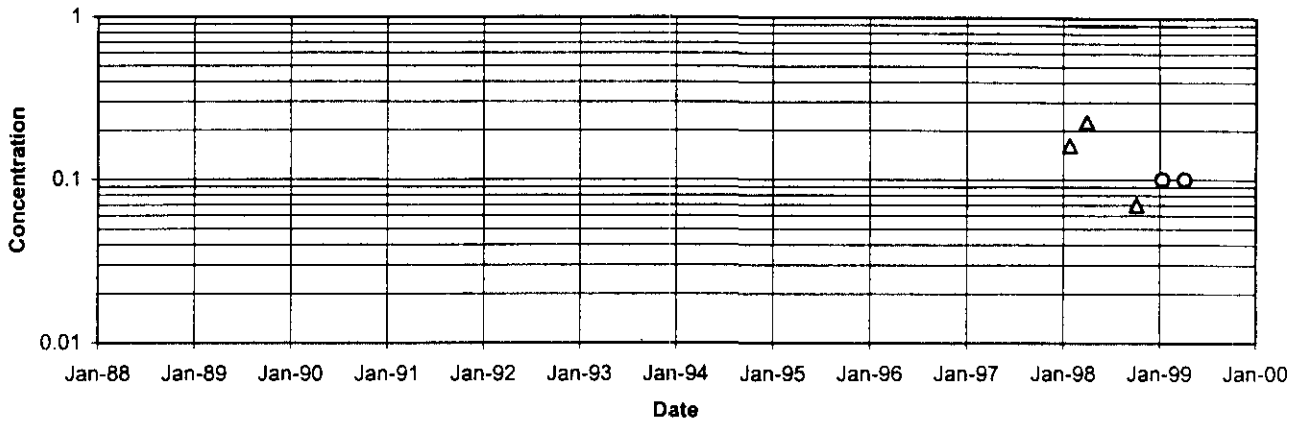
G120B



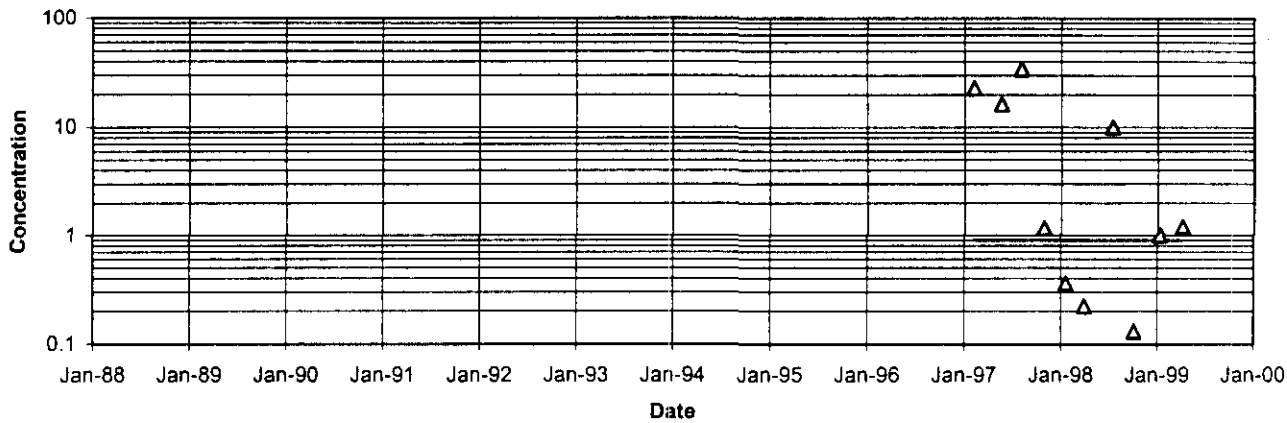
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

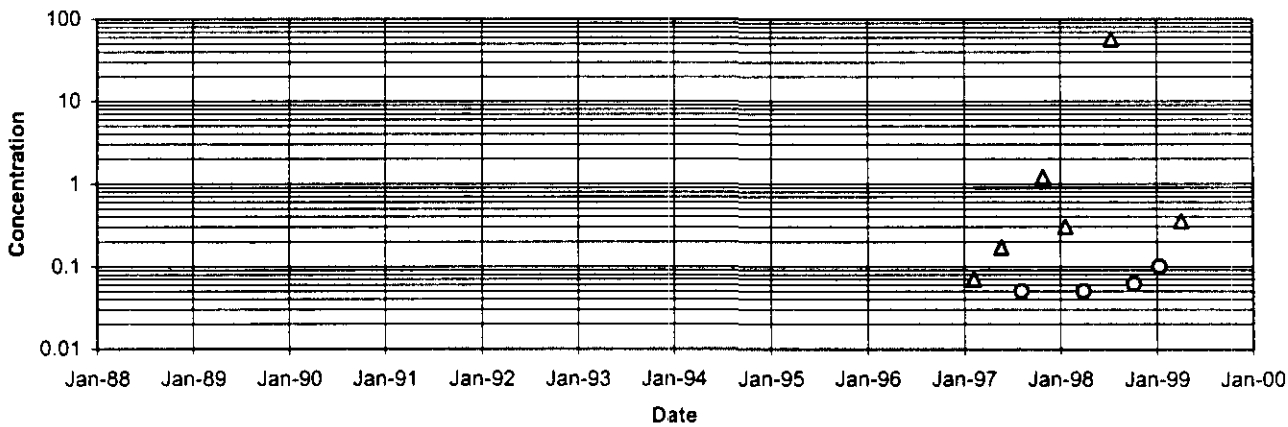
G130



G132



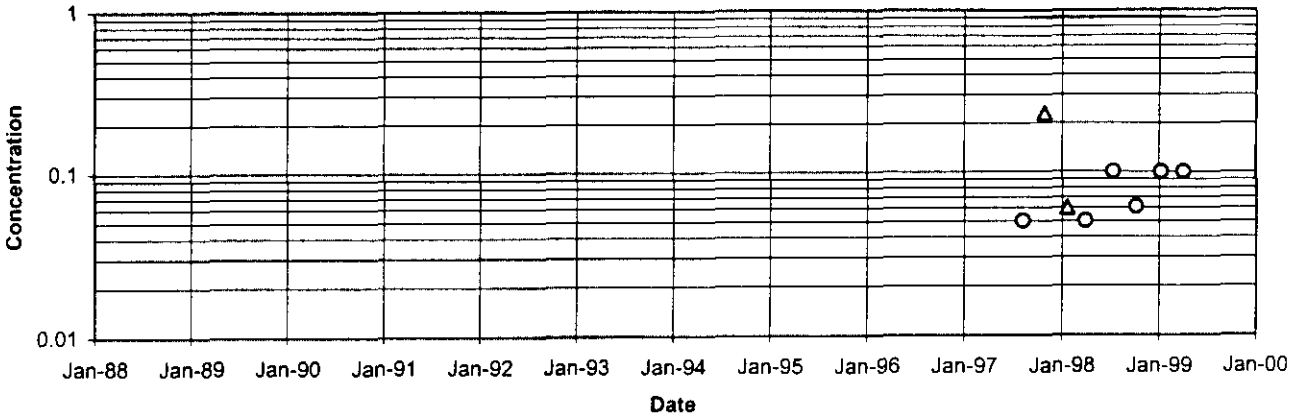
G33D



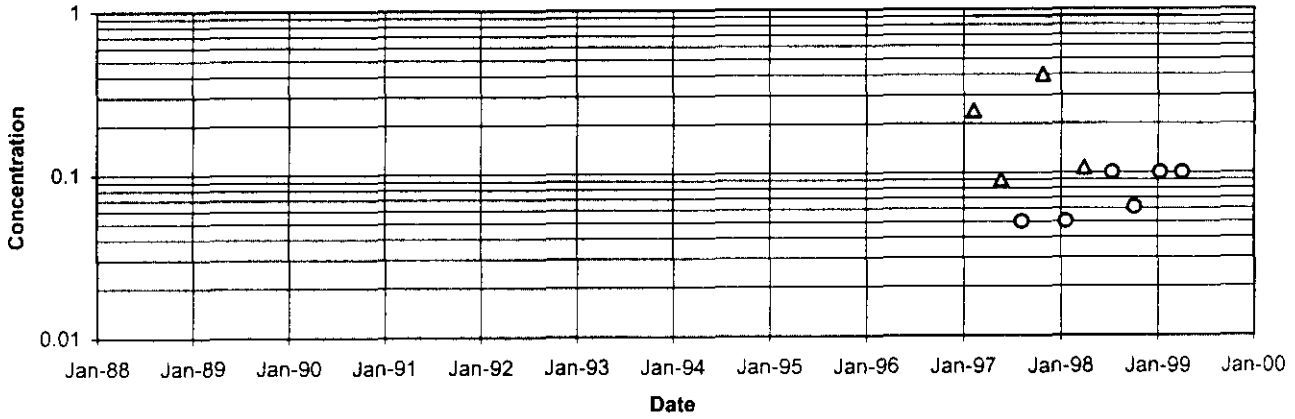
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

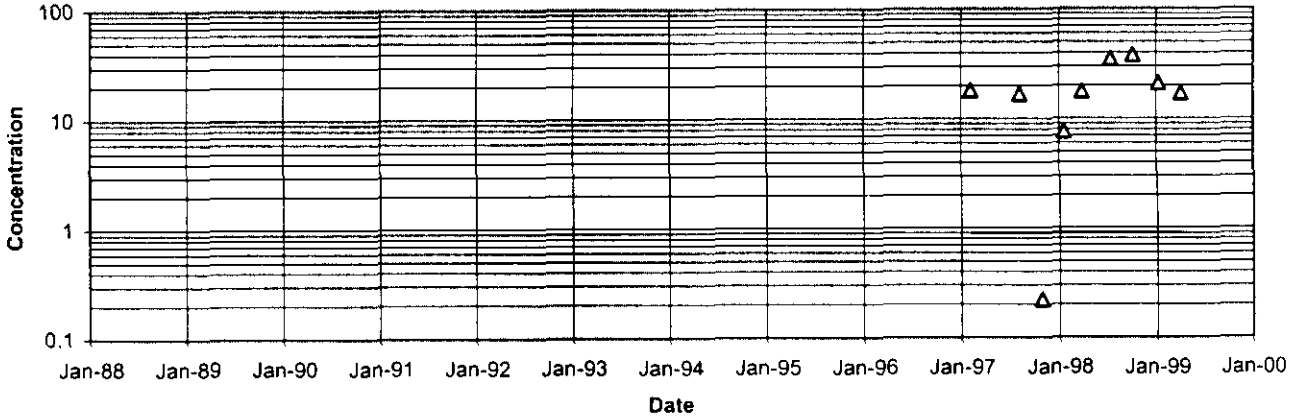
G33S



G34D



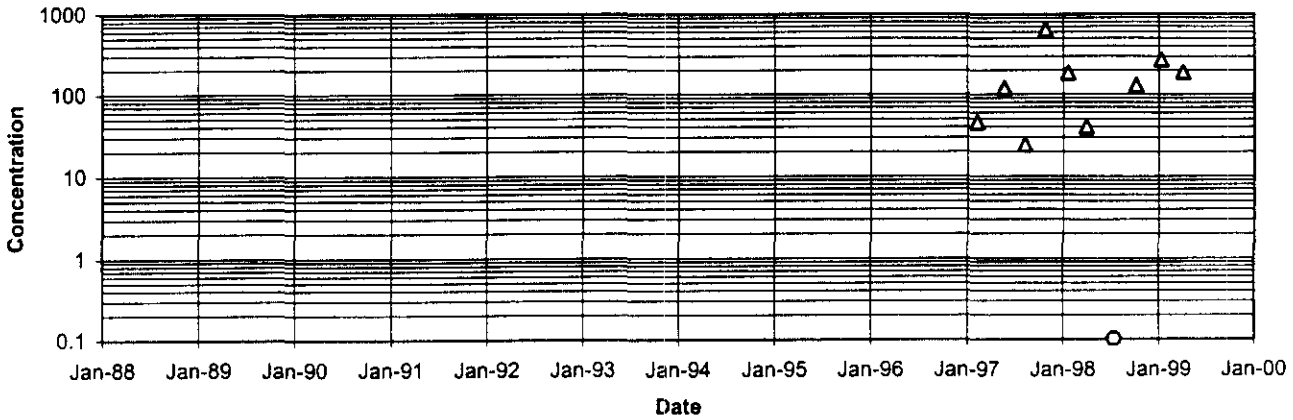
G34S



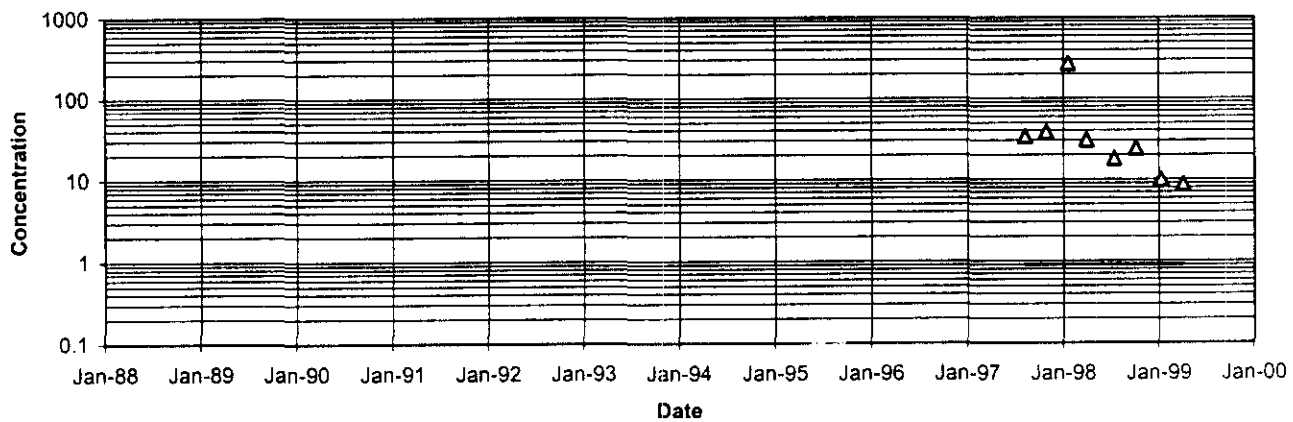
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

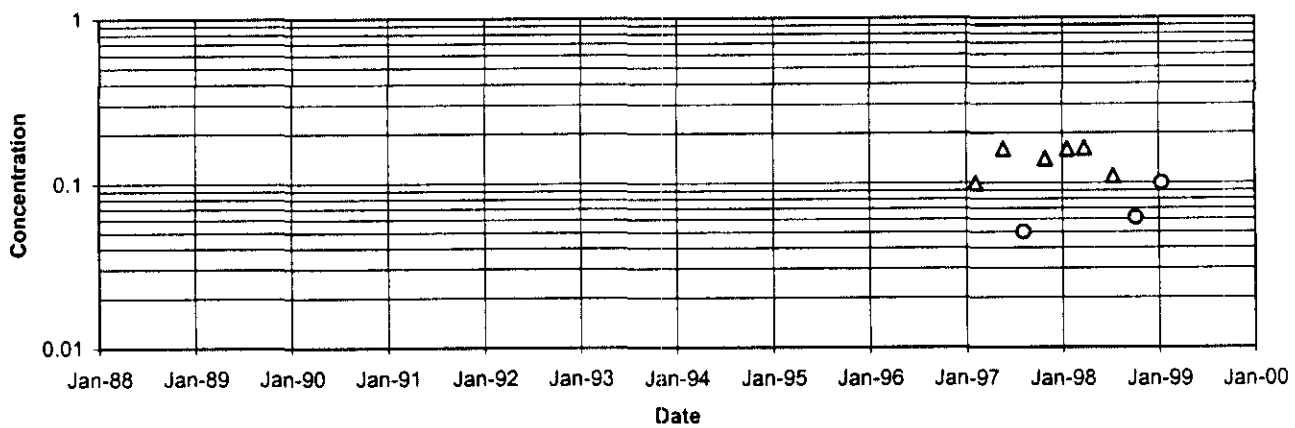
G35D



G35S



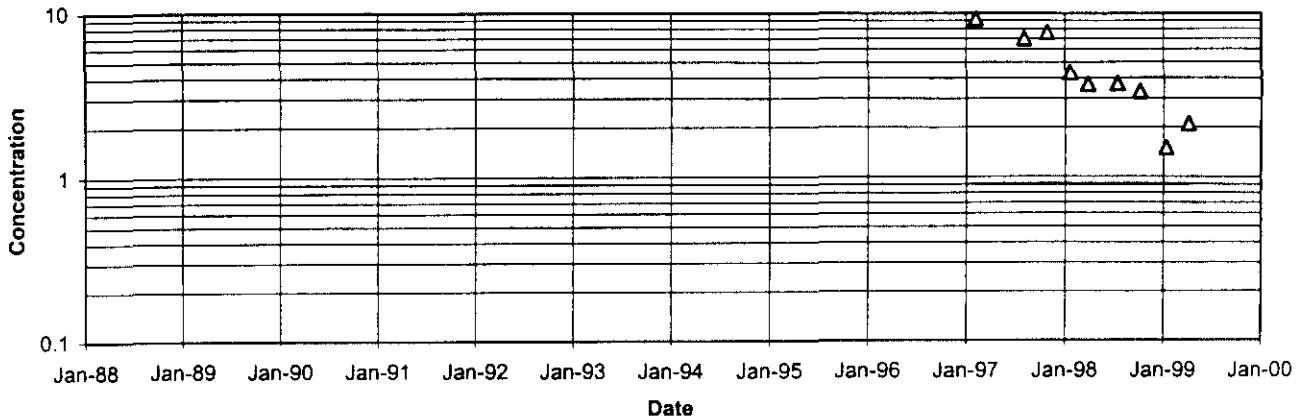
G36



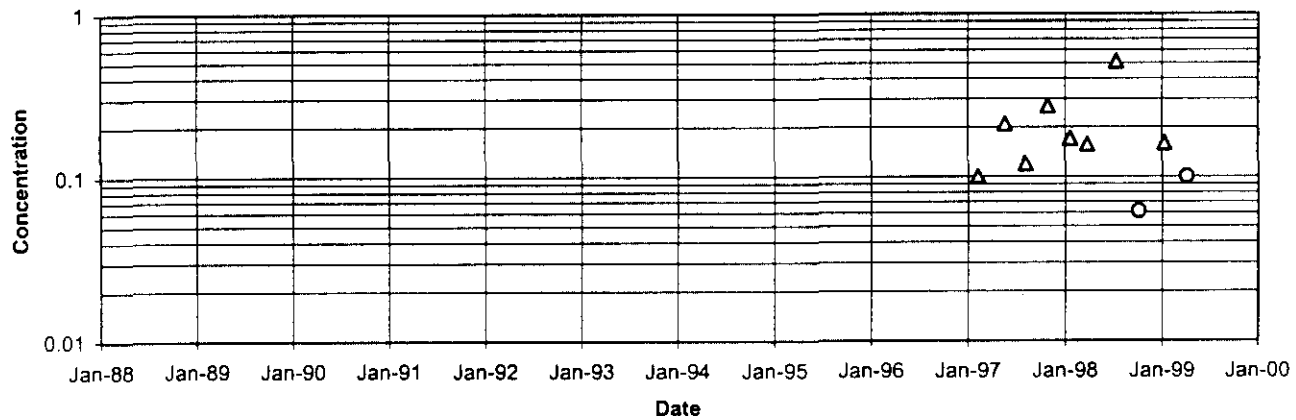
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

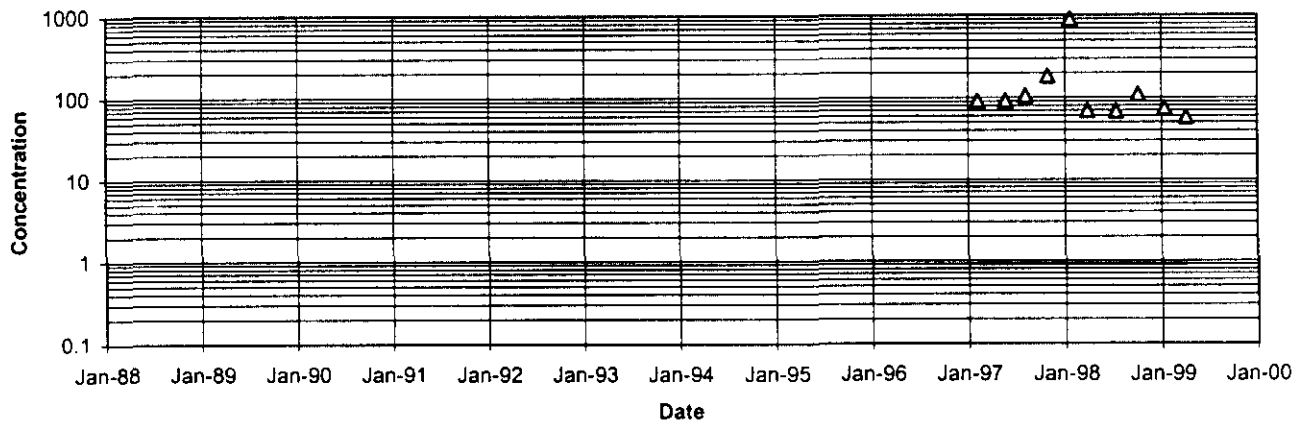
G37D



G37S



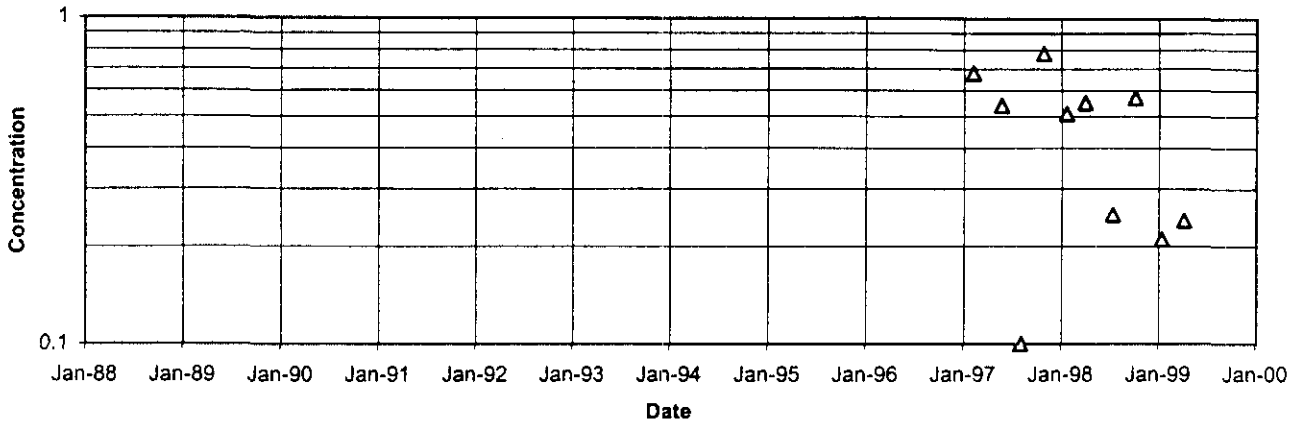
G38



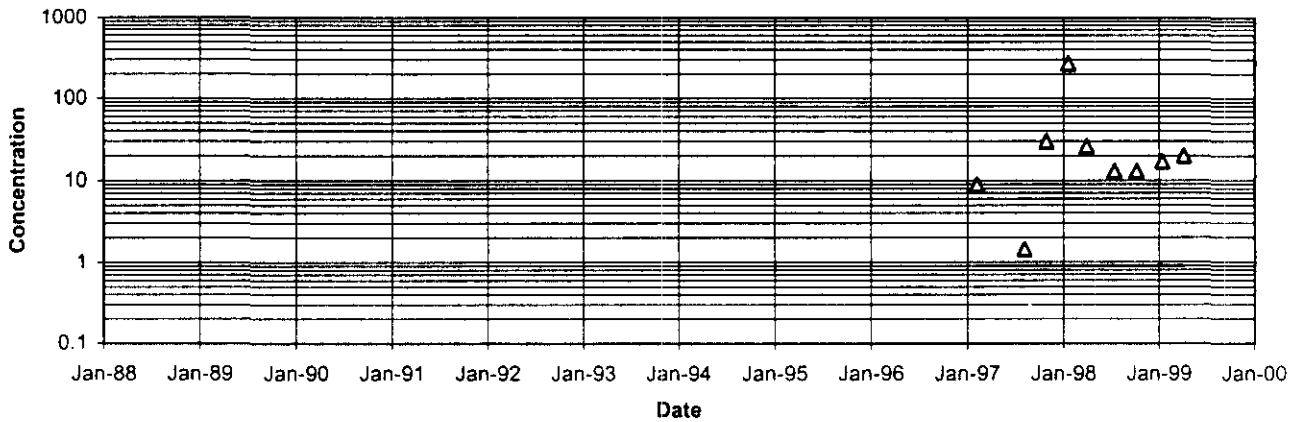
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

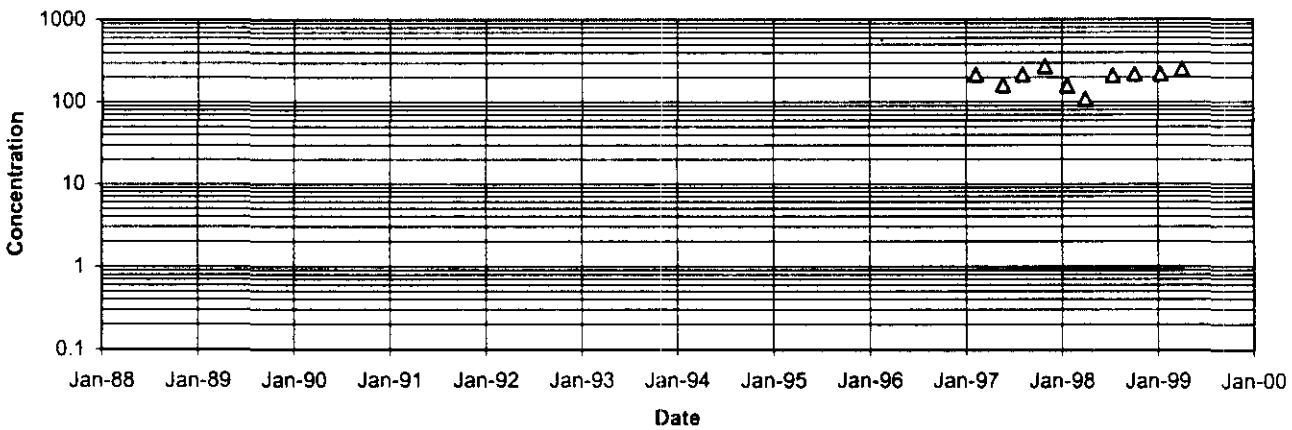
G39



G40



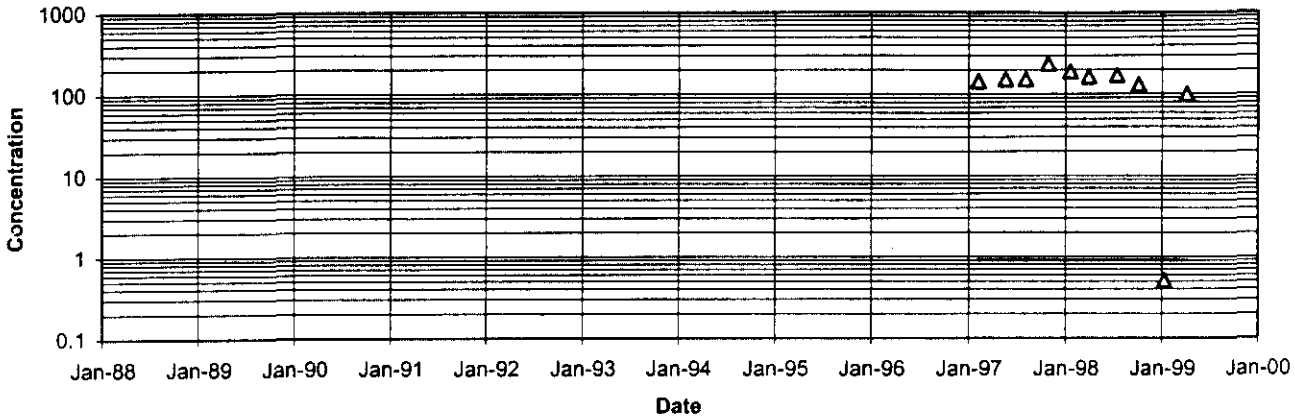
MW106



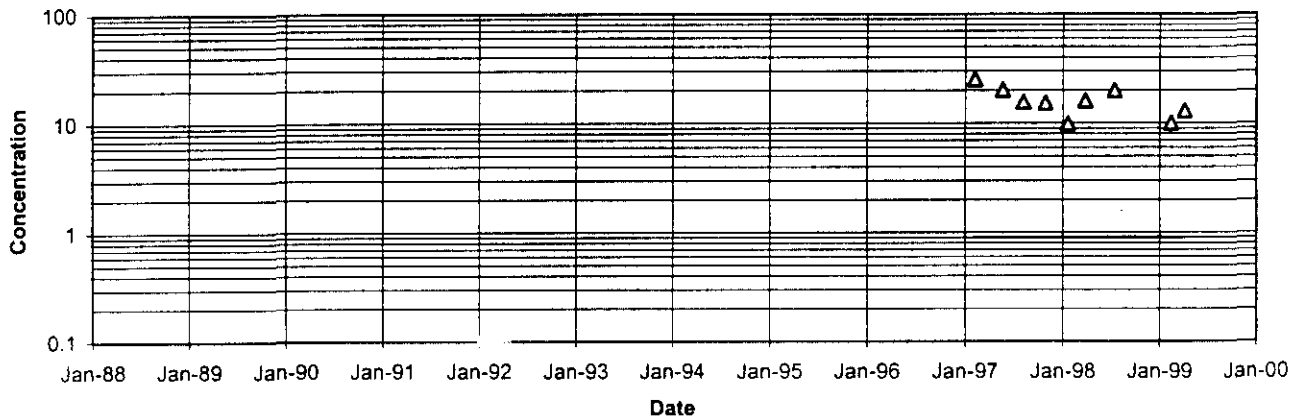
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

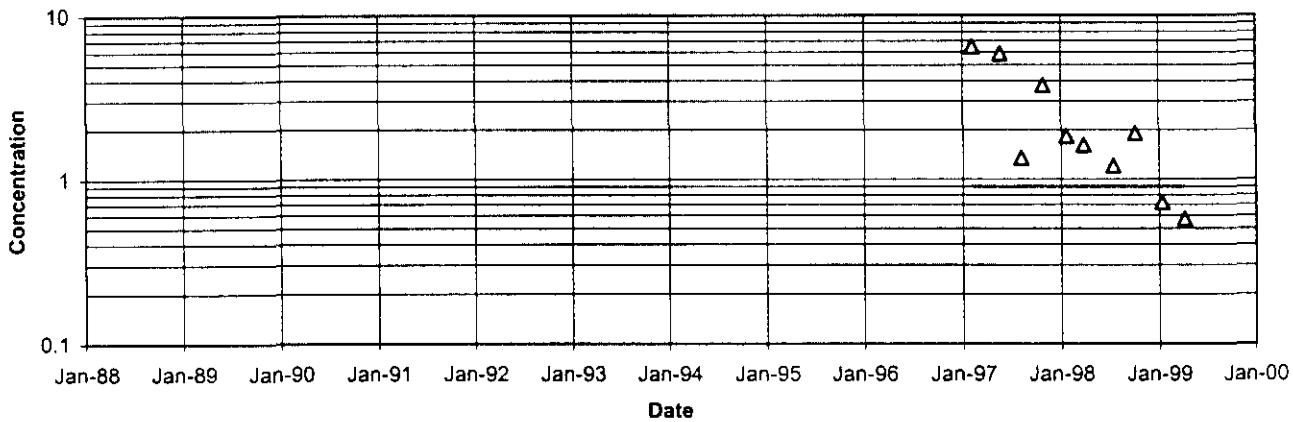
P1



P3R



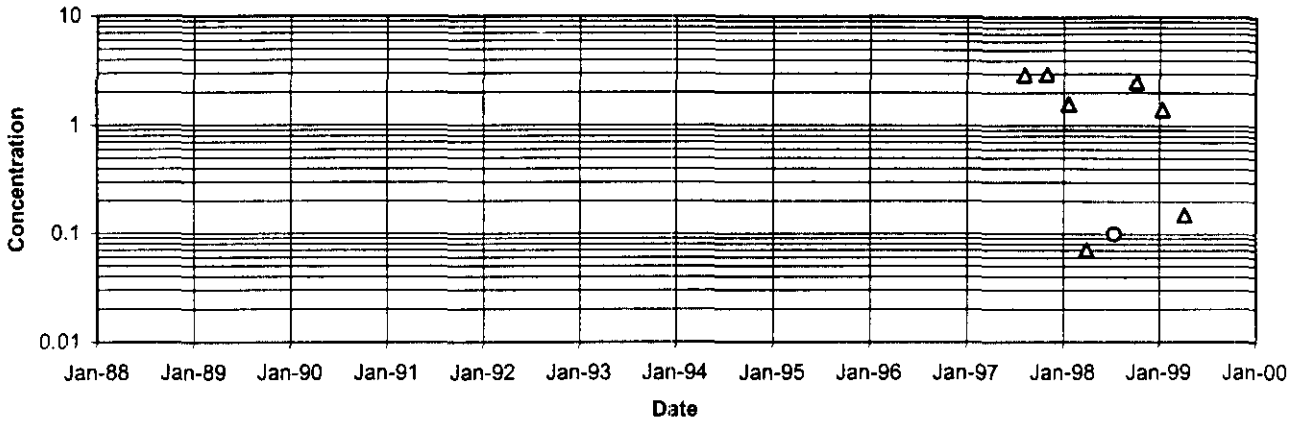
P4R



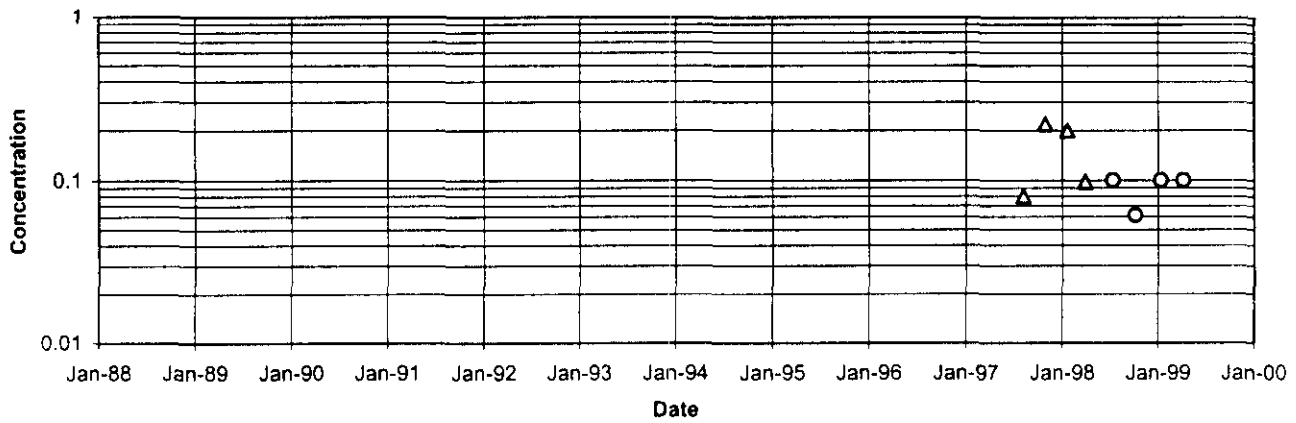
Ammonia, Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

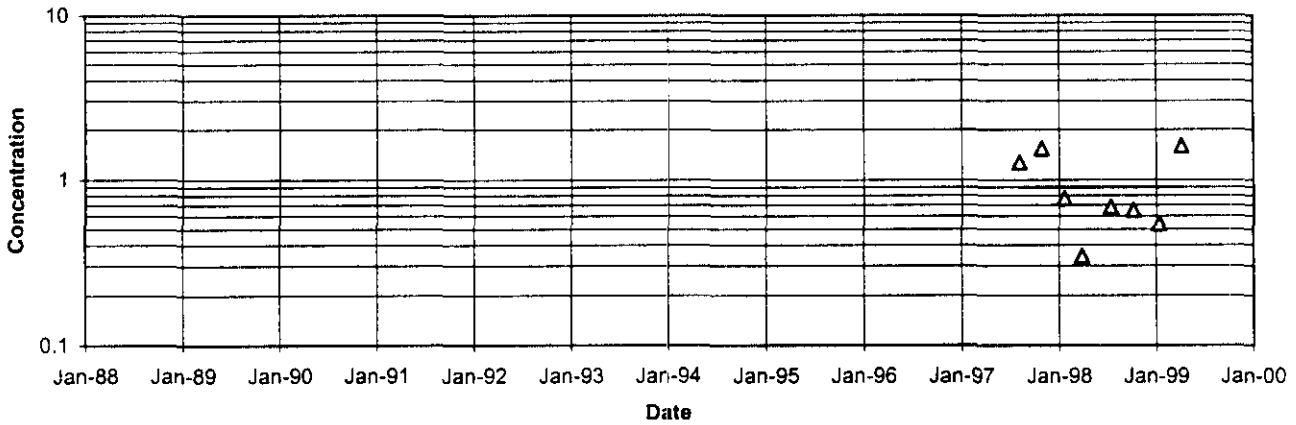
SG1



SG3



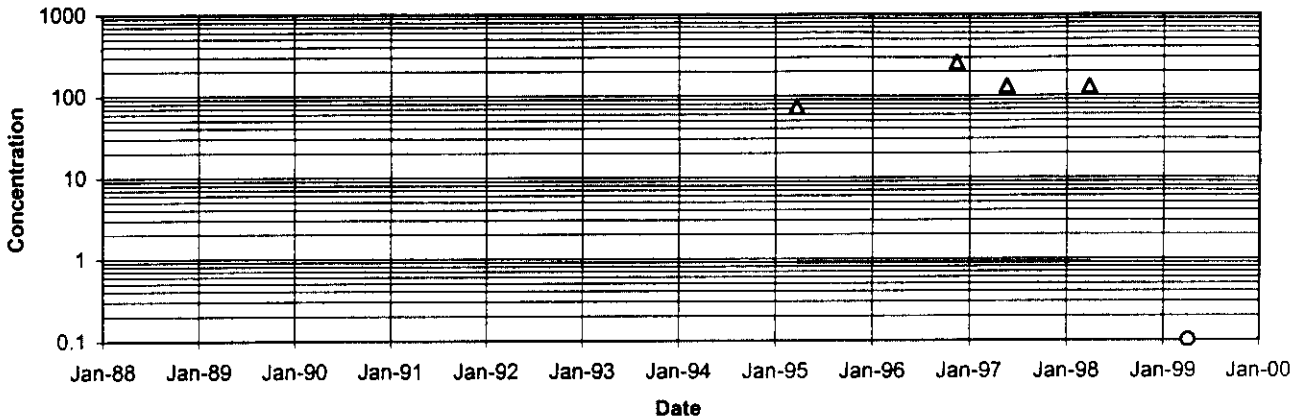
SG4



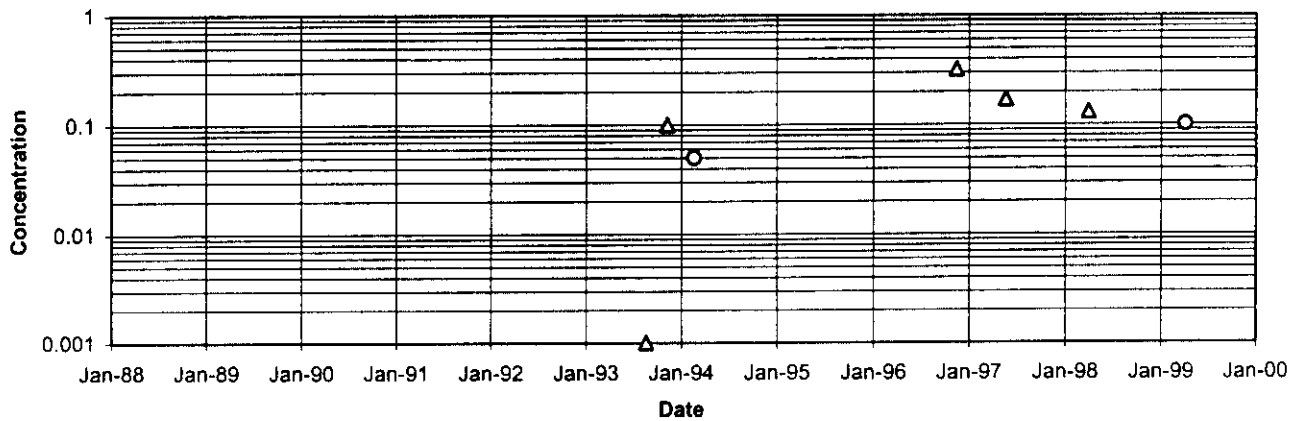
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

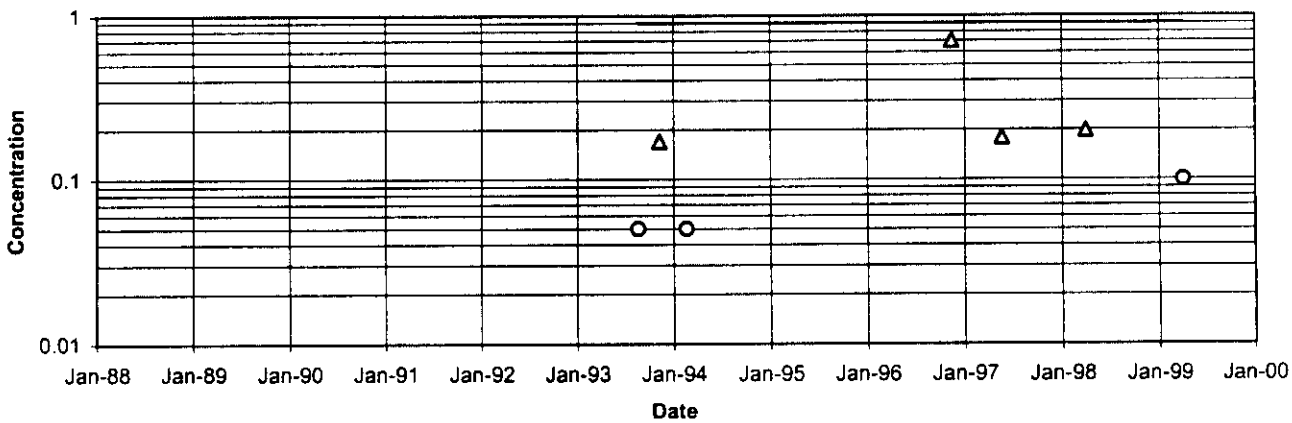
B15R



G109



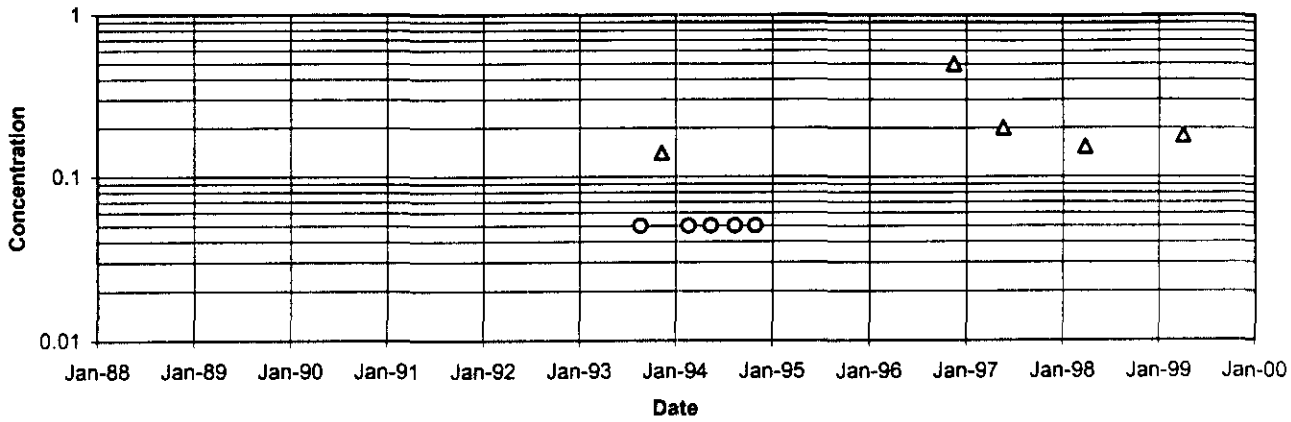
G109A



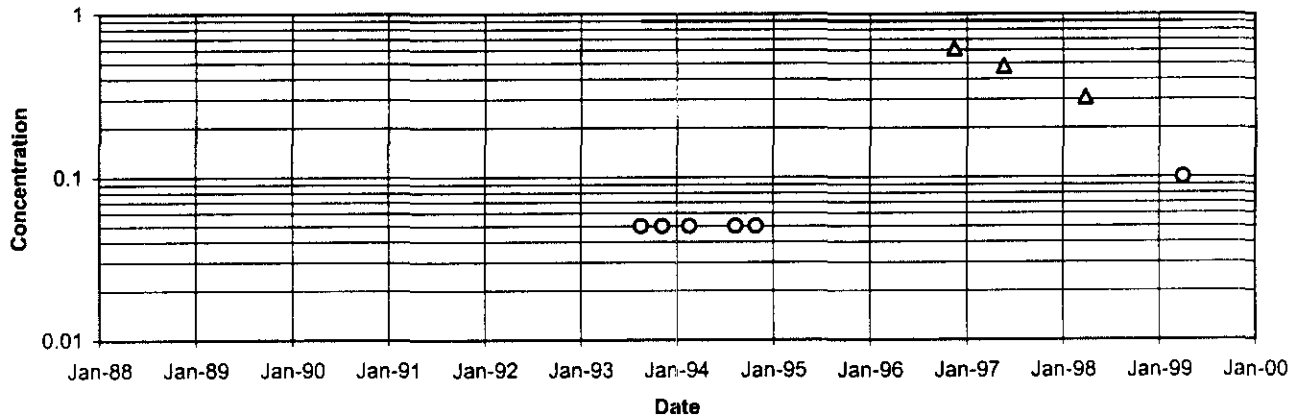
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

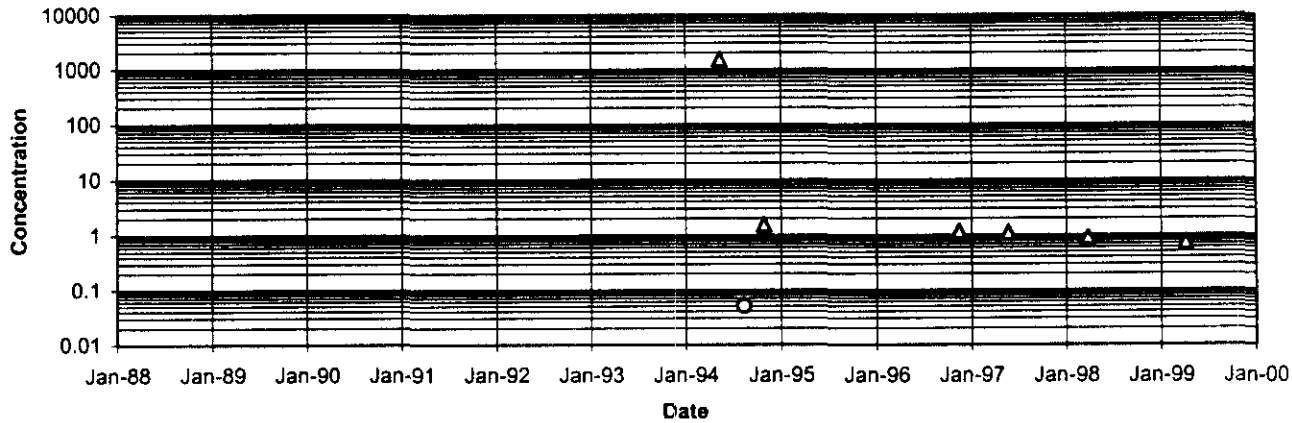
G113



G113A



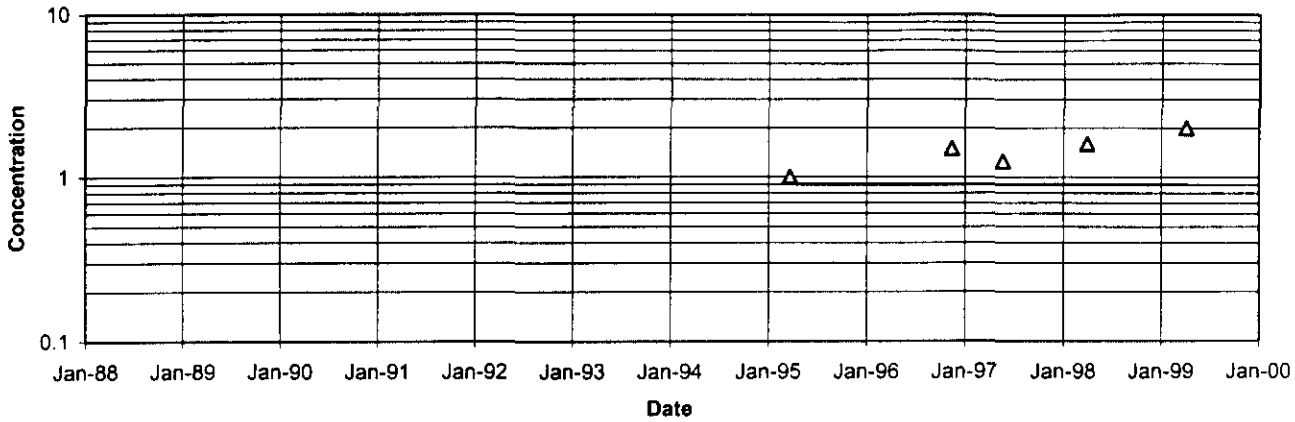
G114



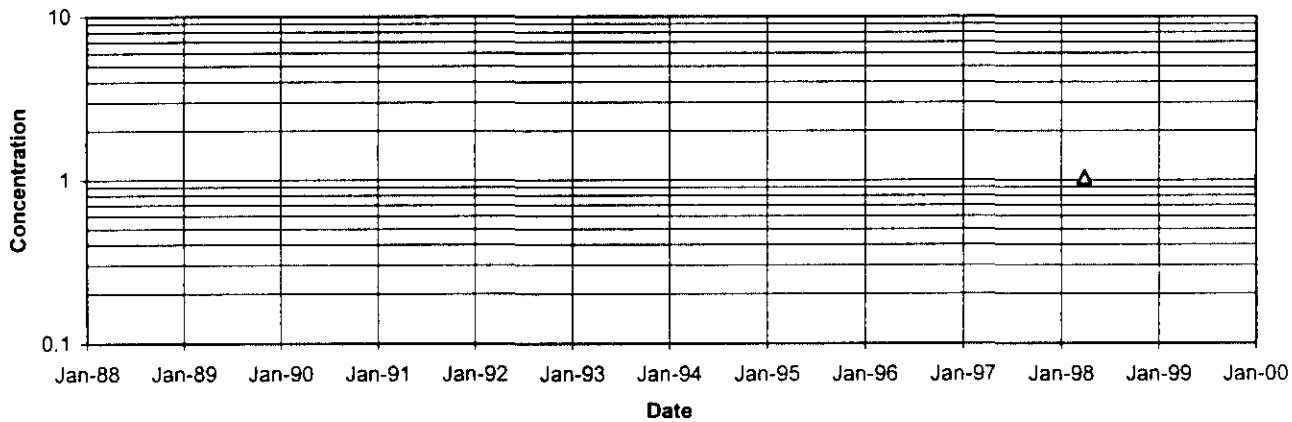
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration ○ NonDetect

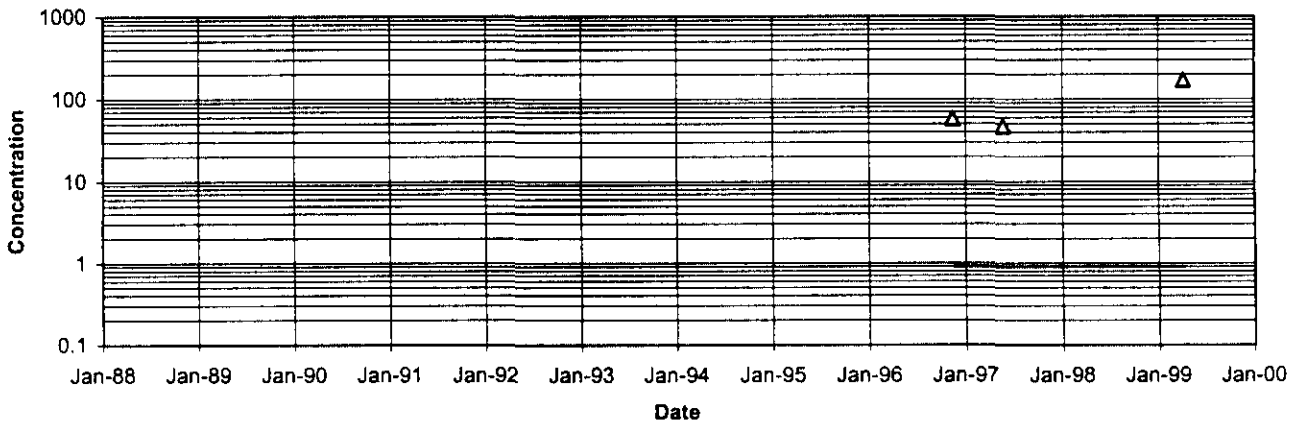
G115



G116



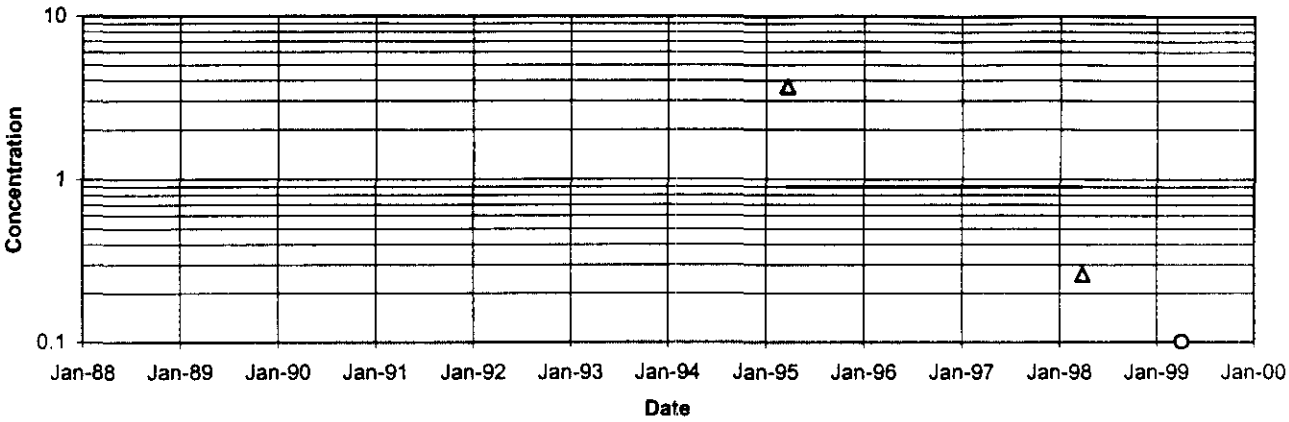
G116A



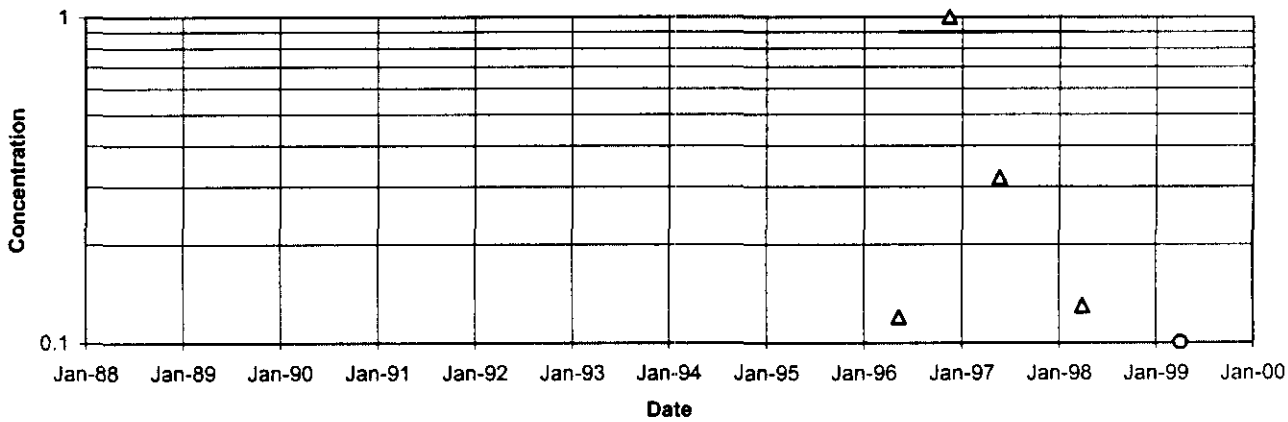
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration ○ NonDetect

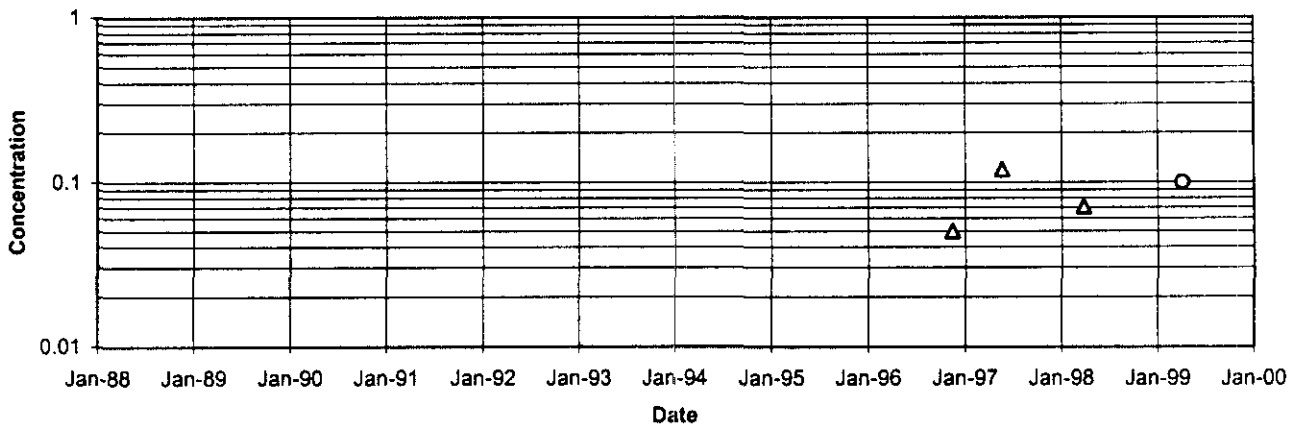
G116D



G117



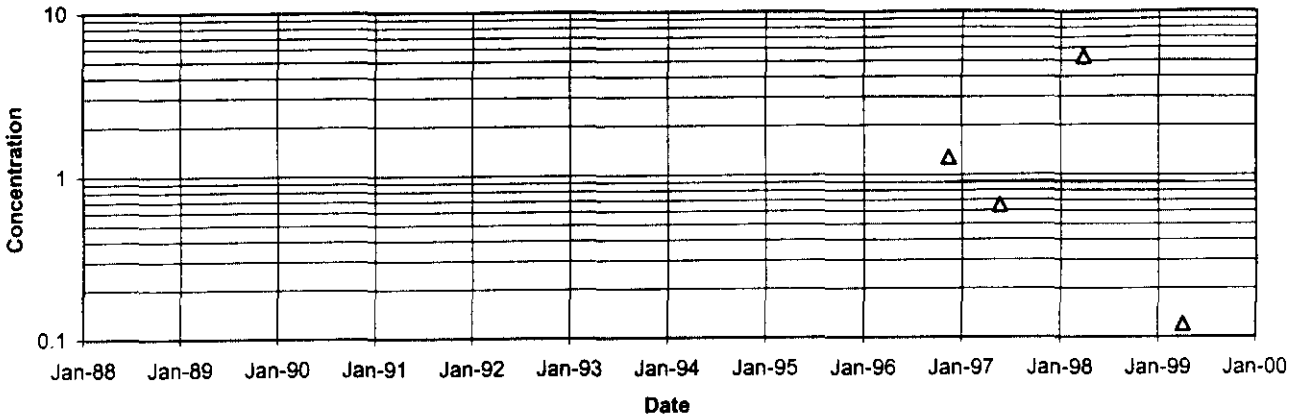
G118A



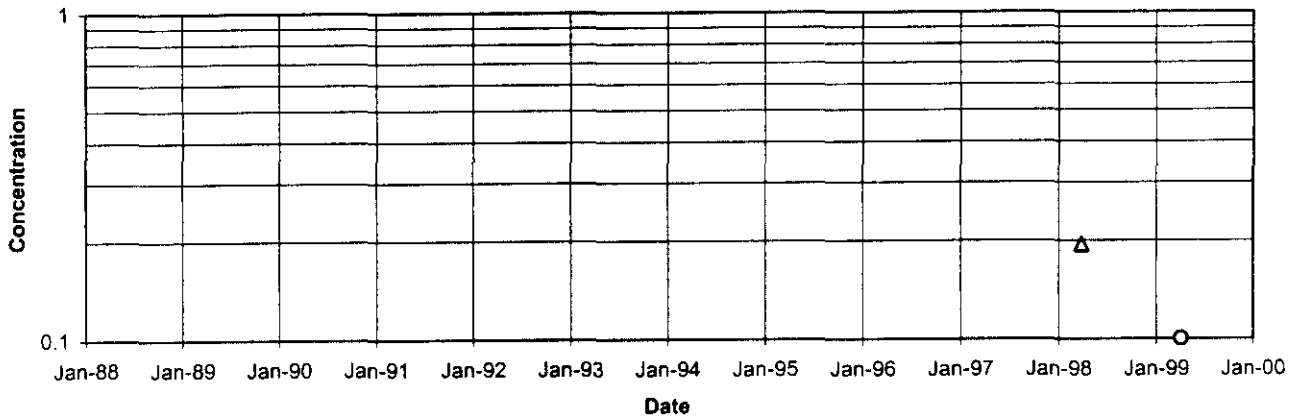
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

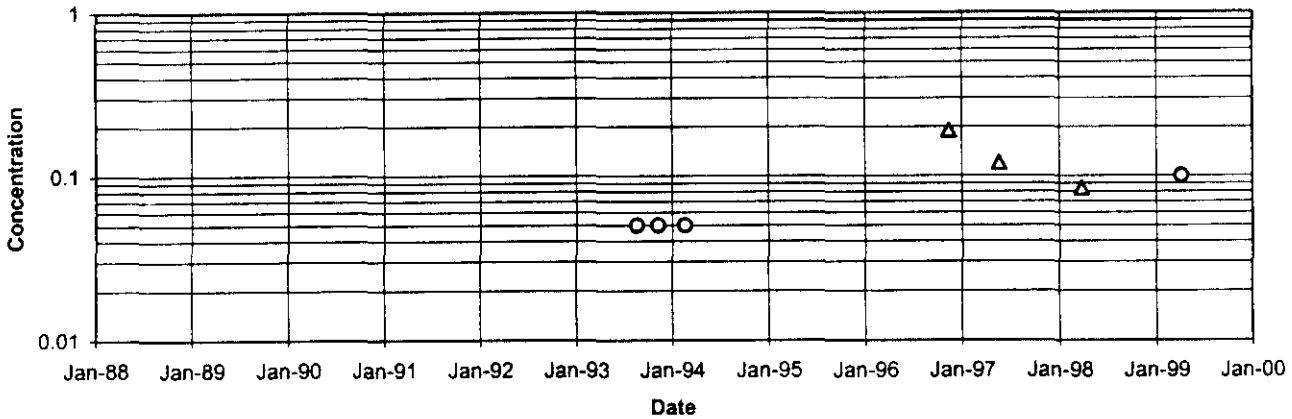
G118R



G119



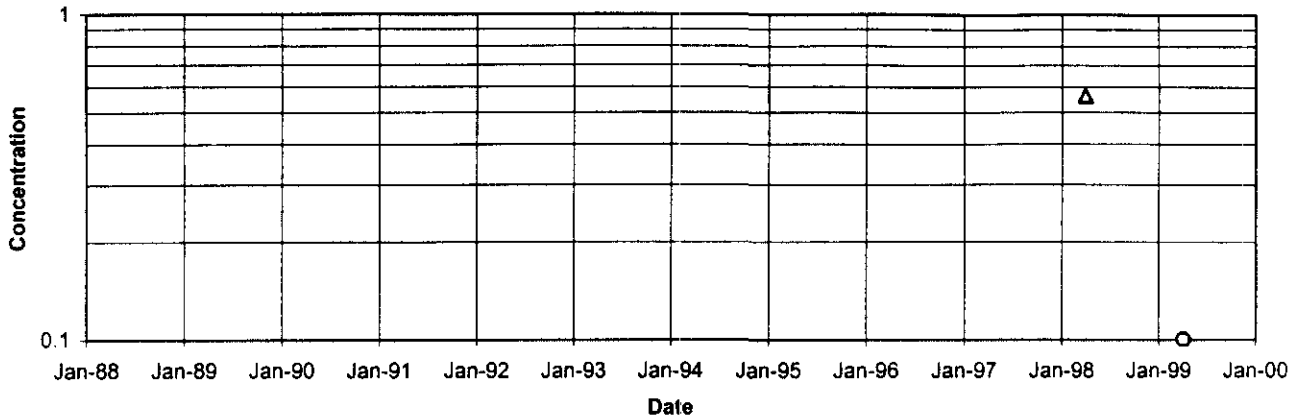
G120B



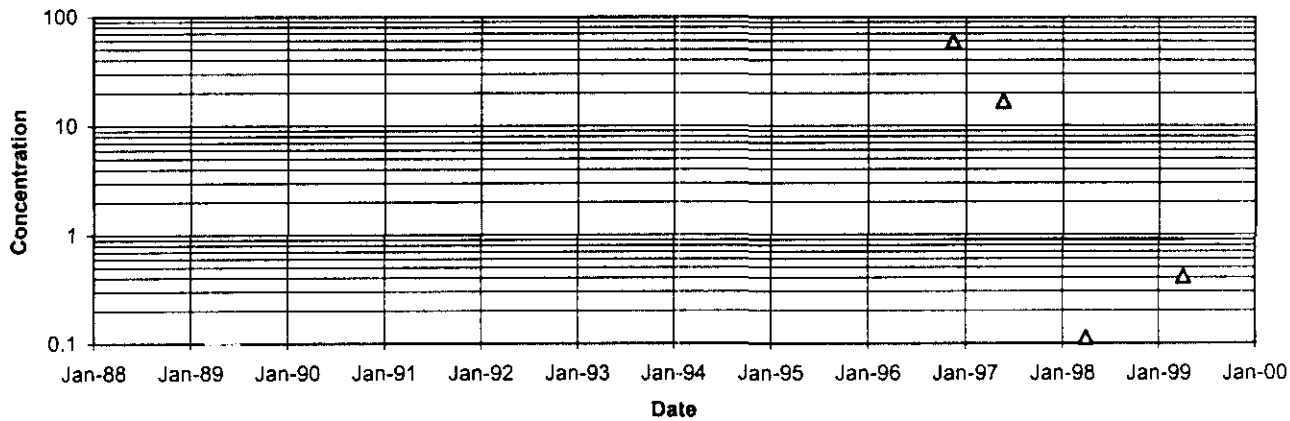
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

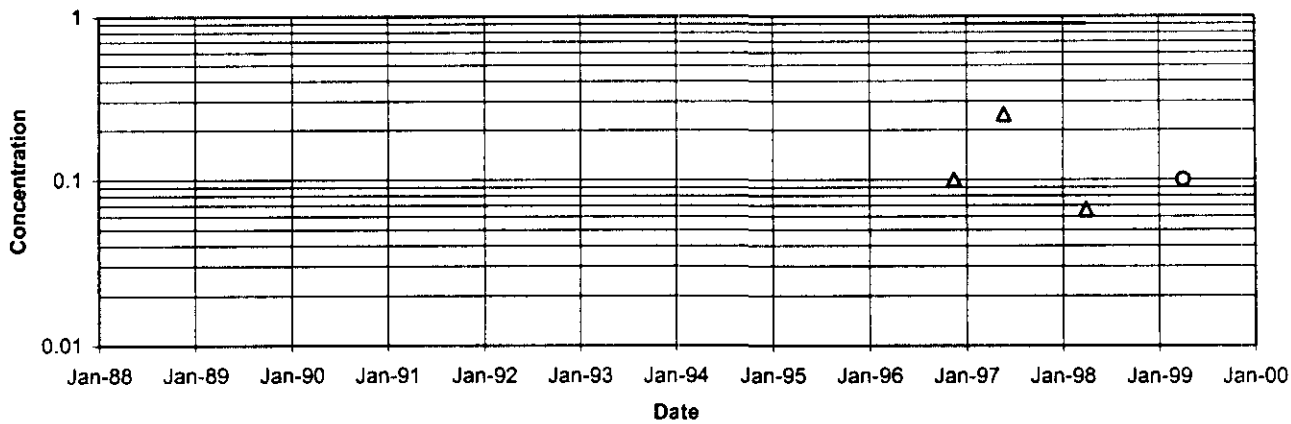
G130



G132



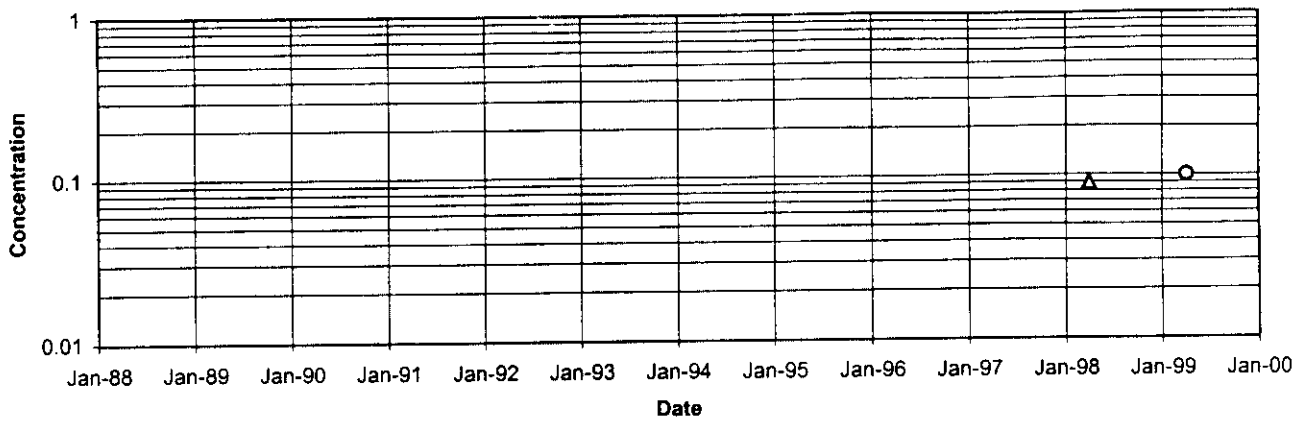
G33D



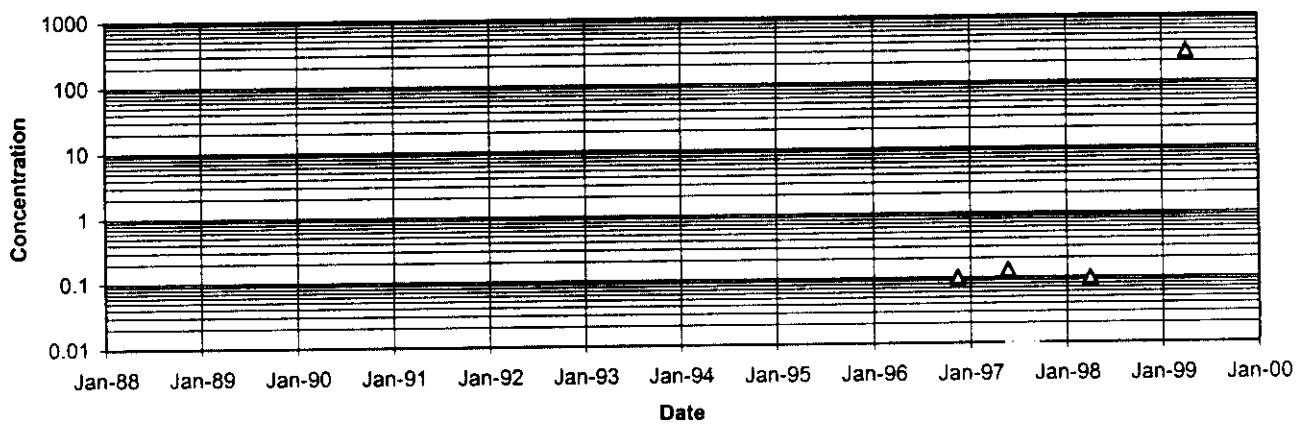
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration ○ NonDetect

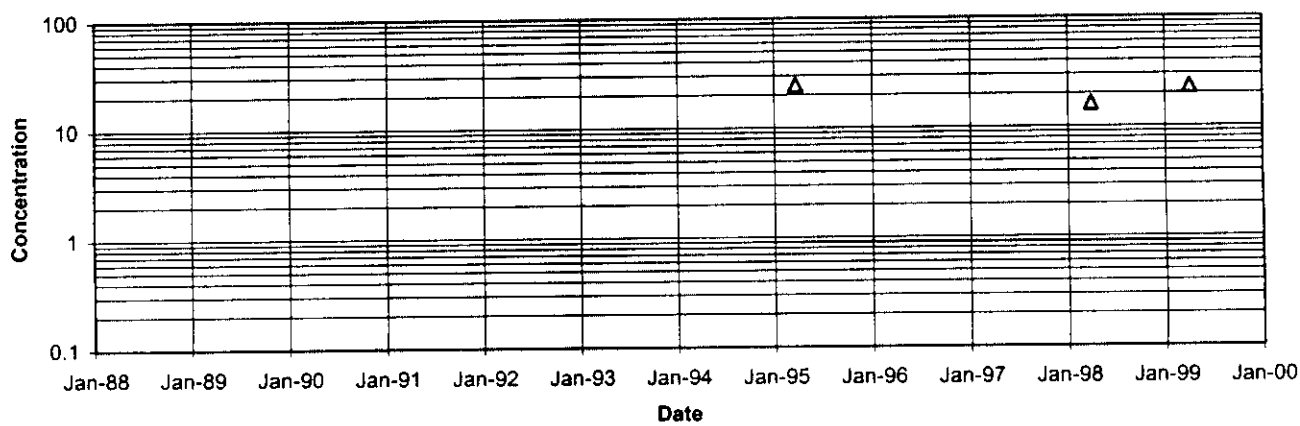
G33S



G34D



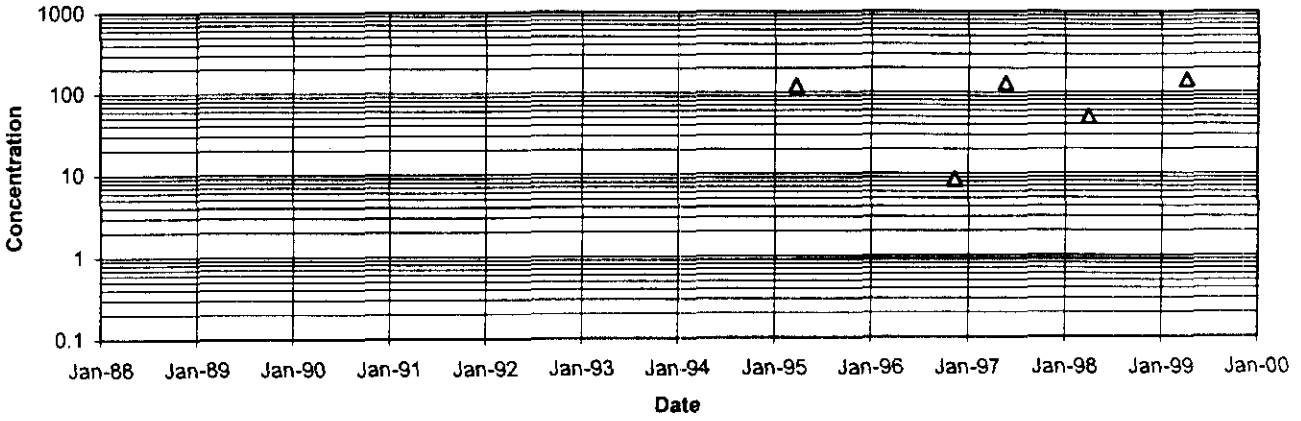
G34S



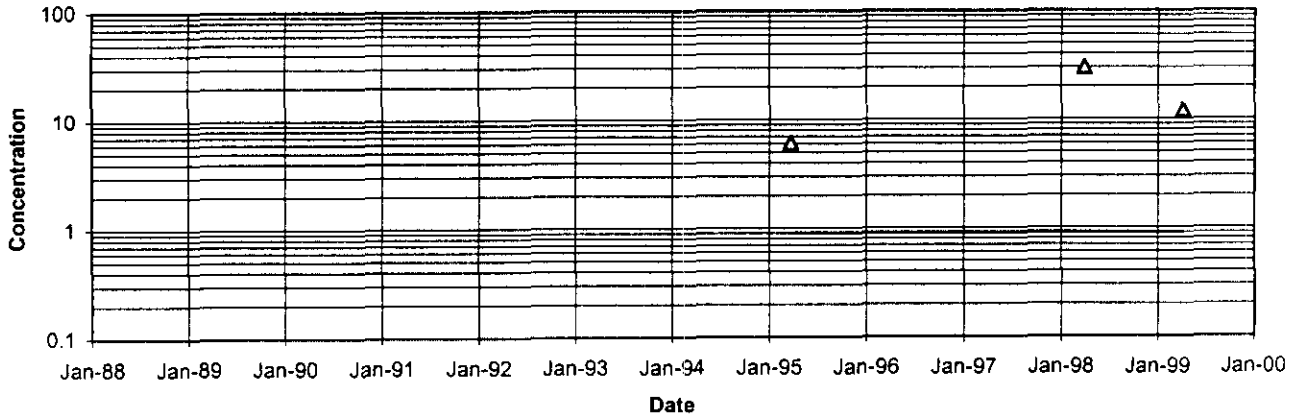
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

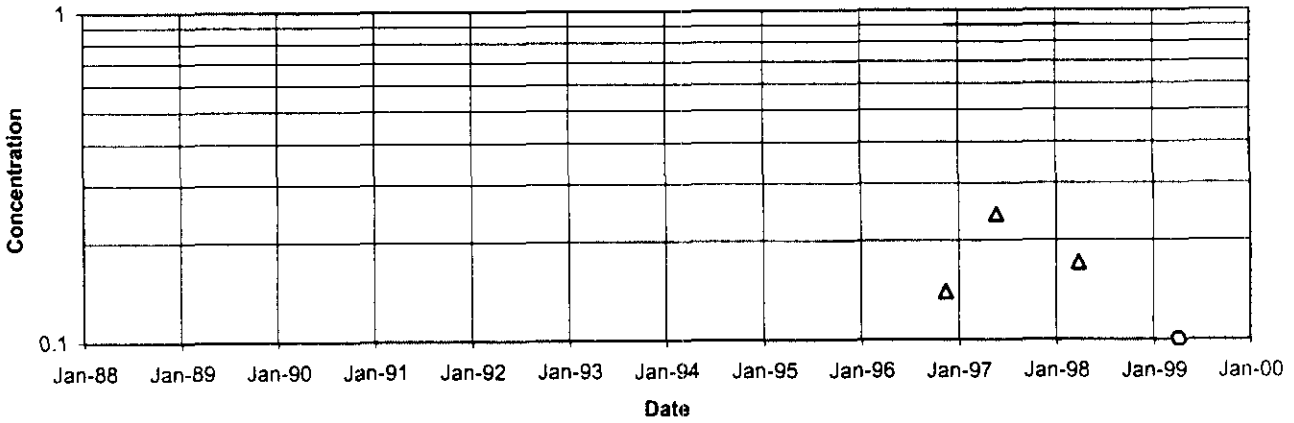
G35D



G35S



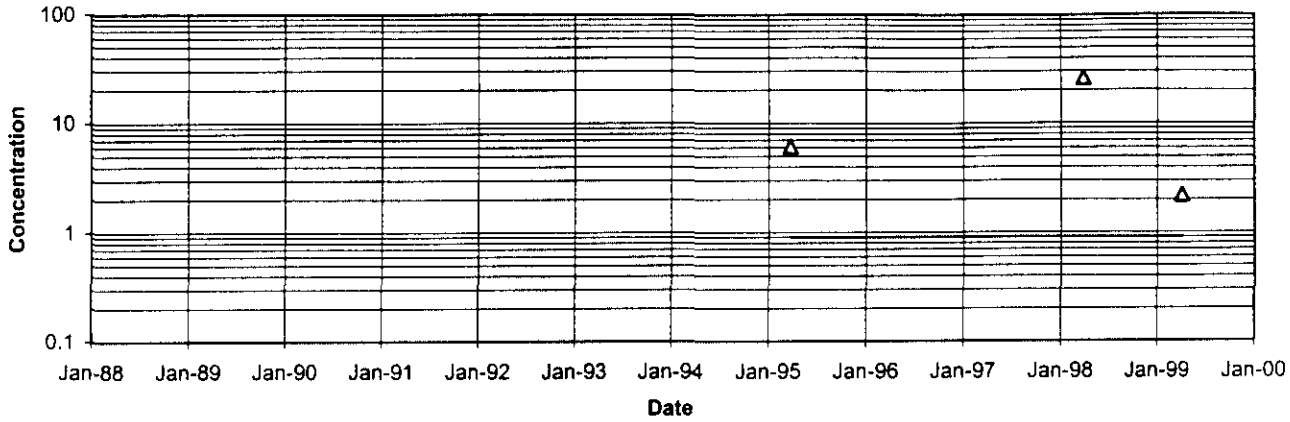
G36



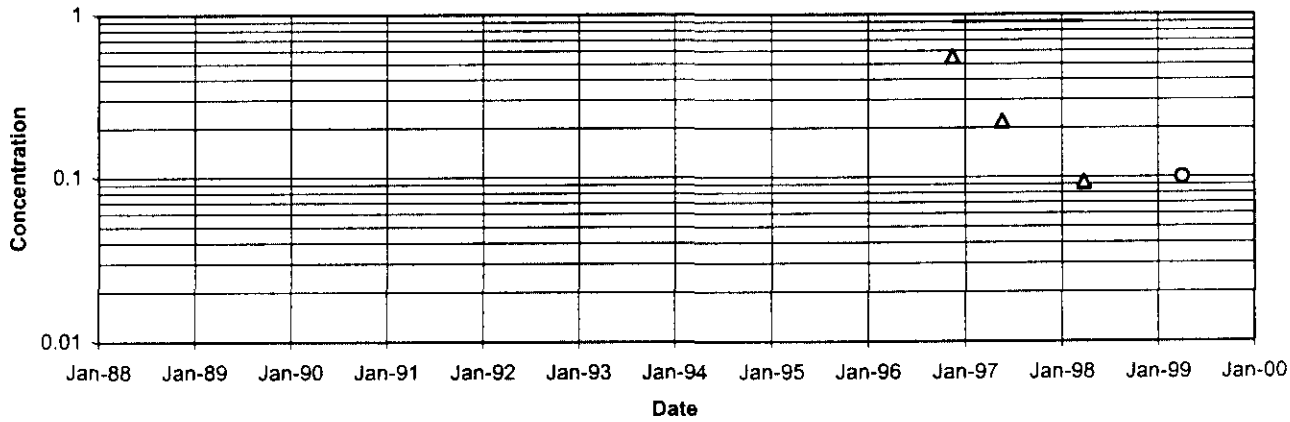
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

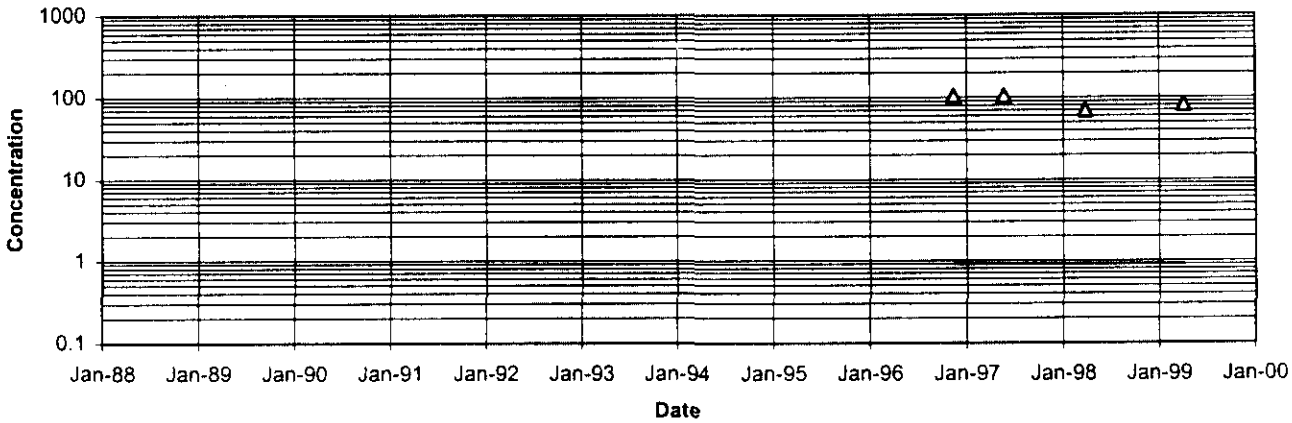
G37D



G37S



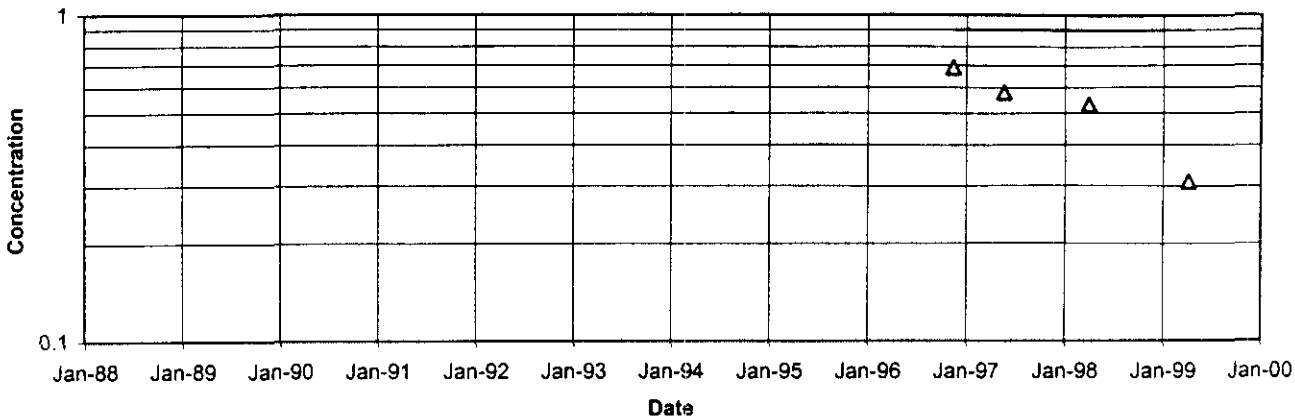
G38



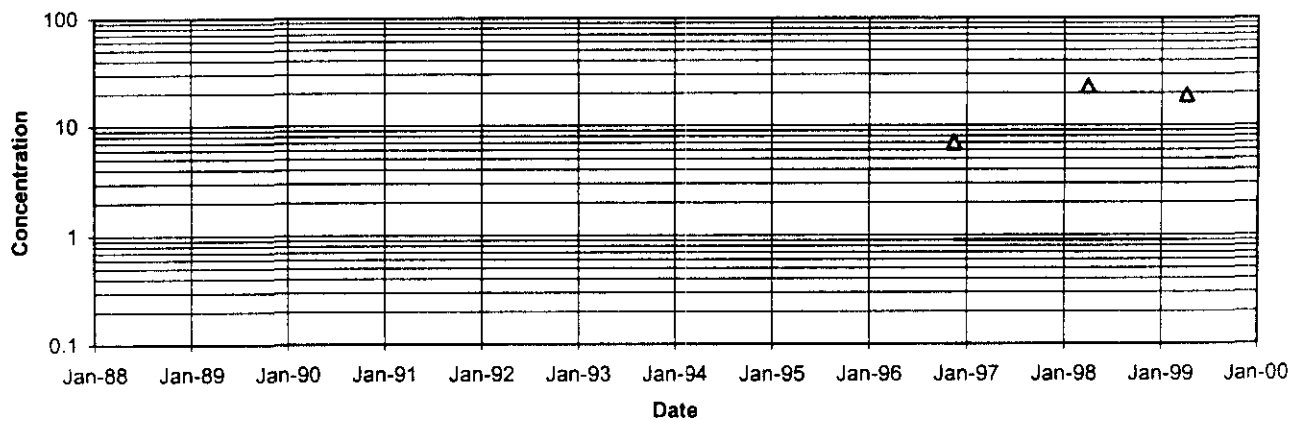
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

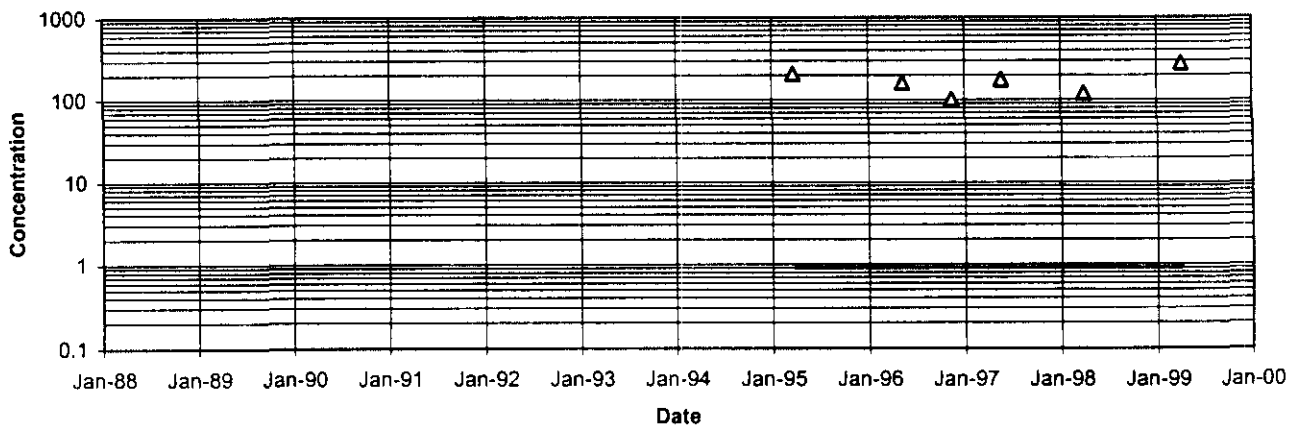
G39



G40



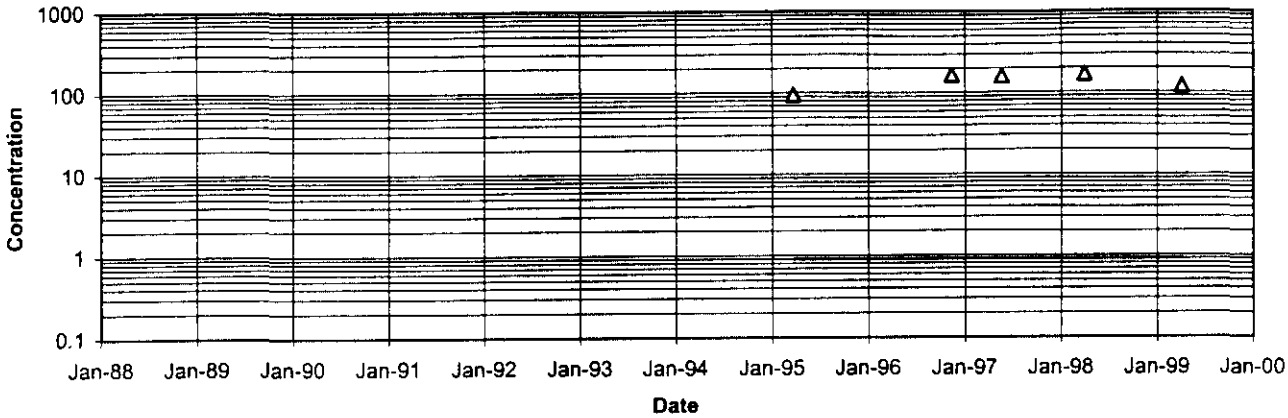
MW106



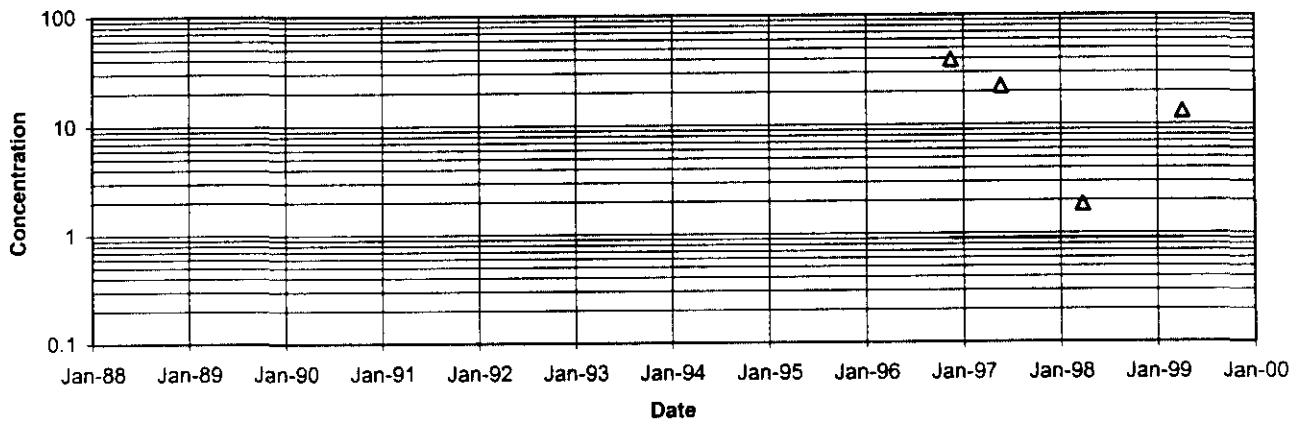
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

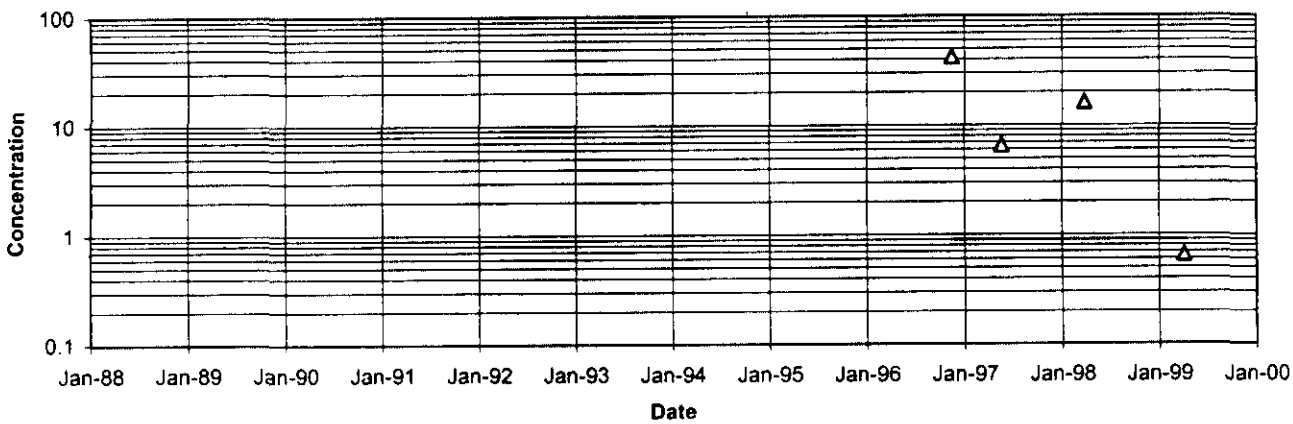
P1



P3R



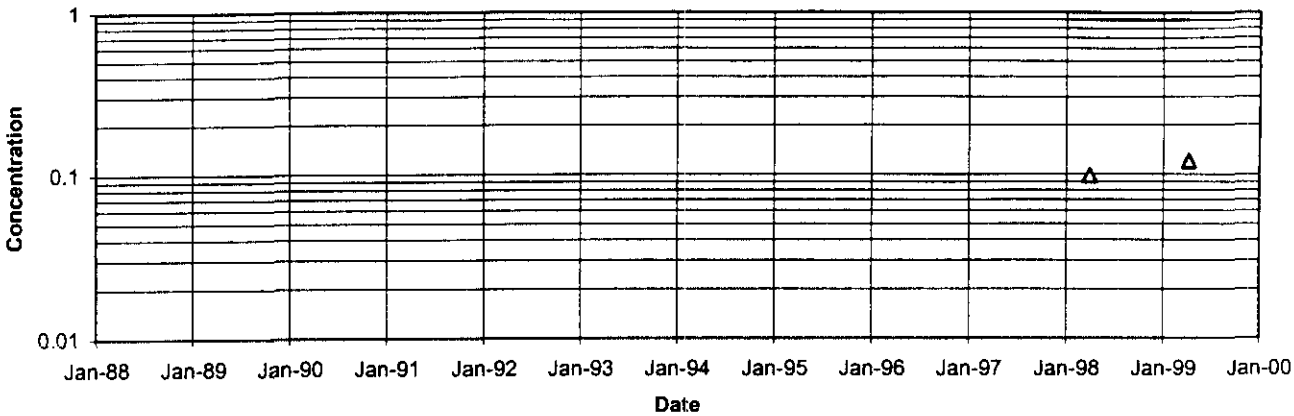
P4R



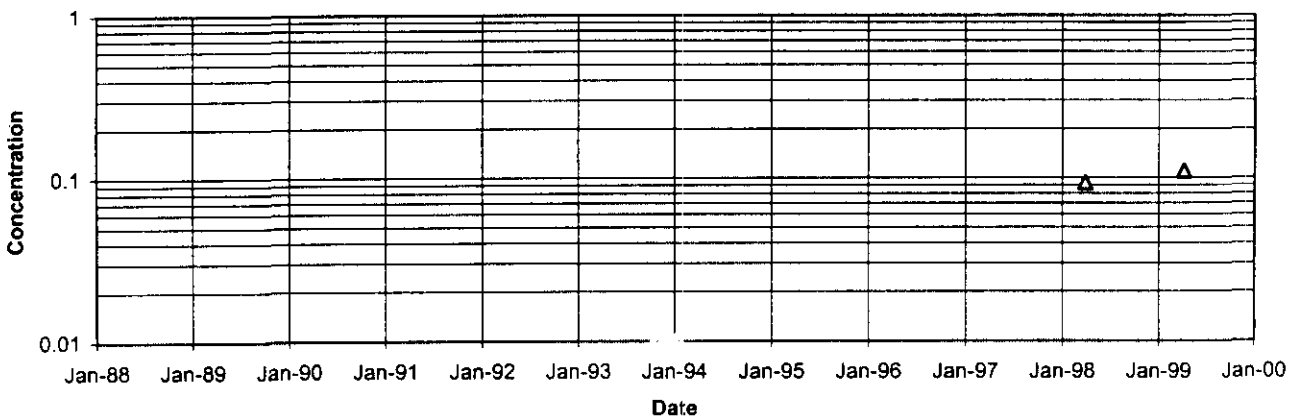
Ammonia, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

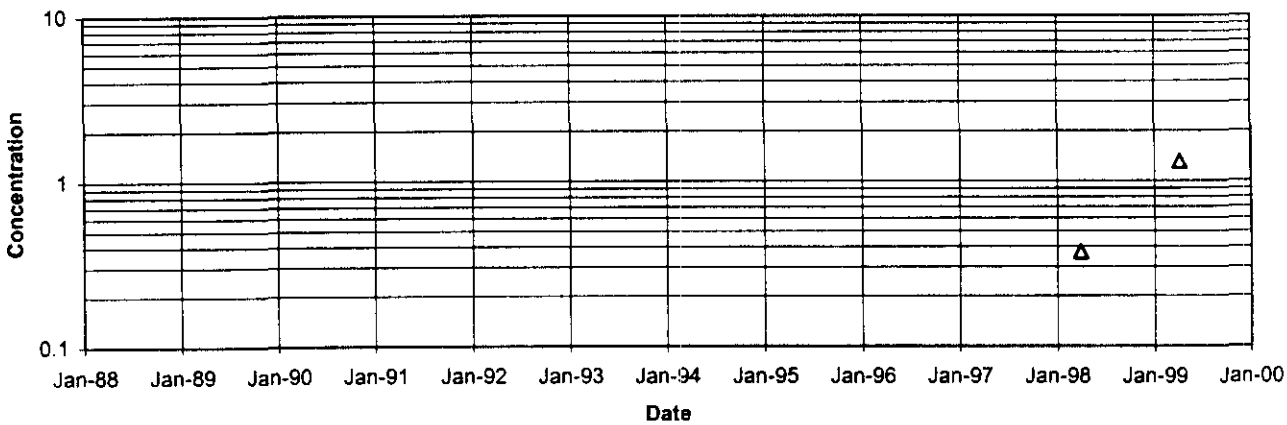
SG1



SG3



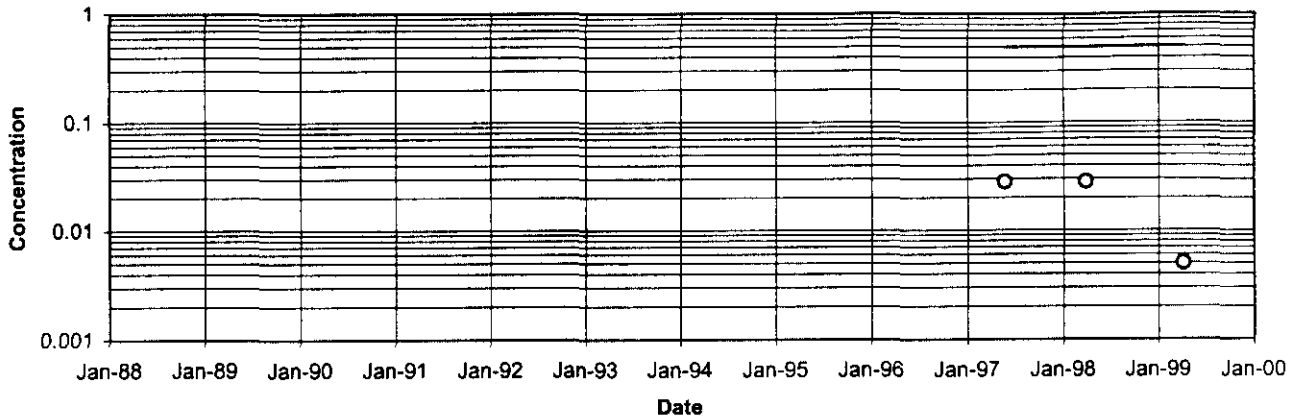
SG4



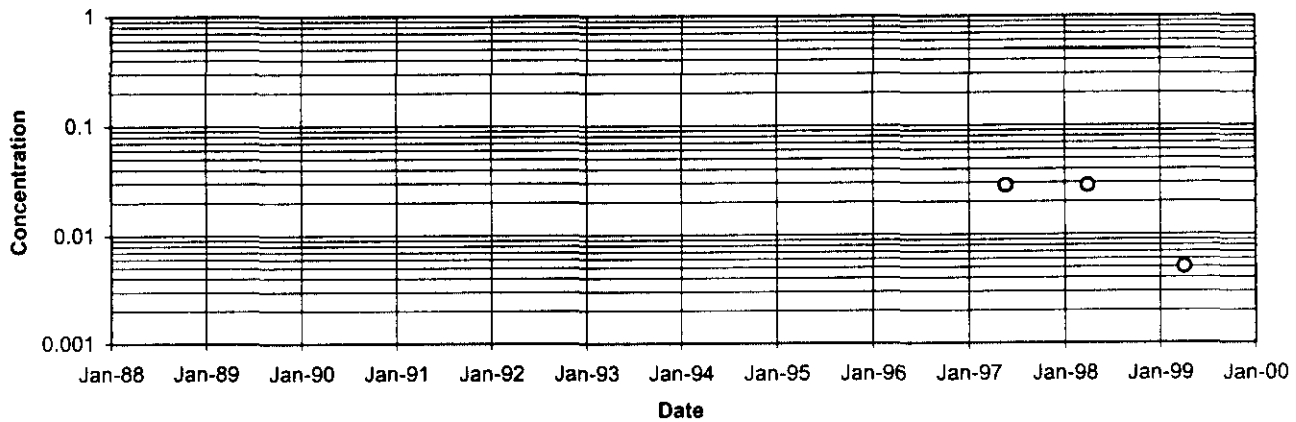
Antimony (mg/L)

AGQS Δ Concentration ○ NonDetect

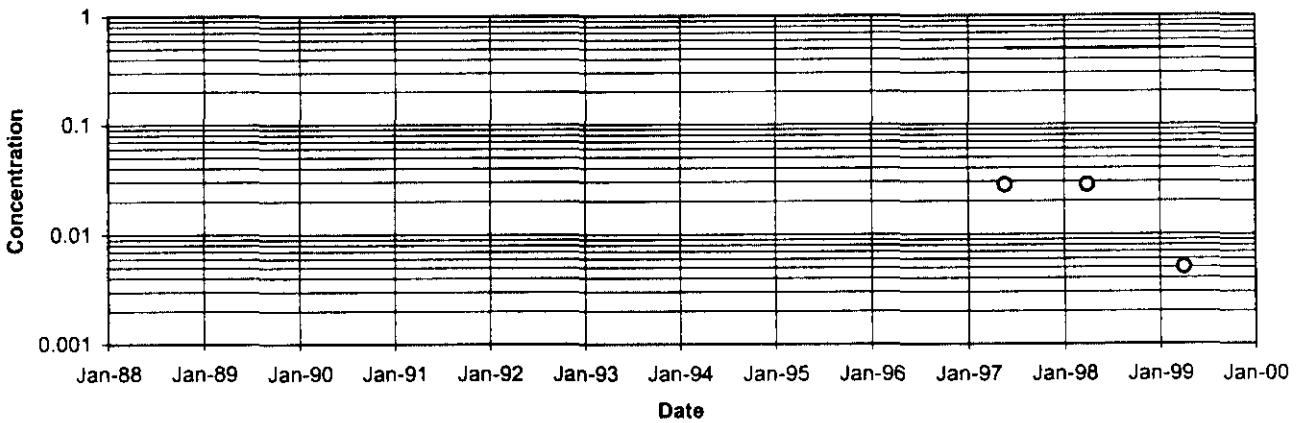
B15R



G109



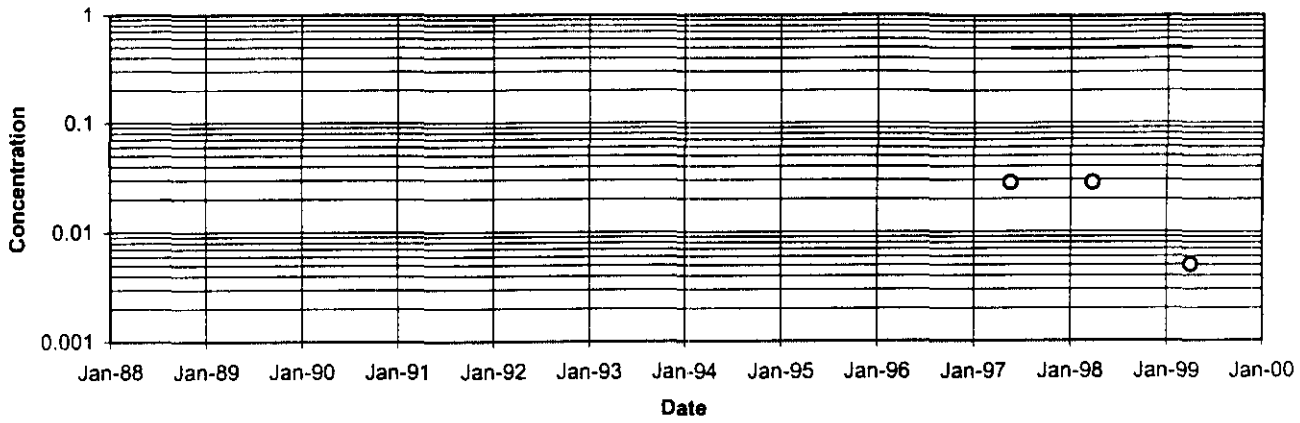
G109A



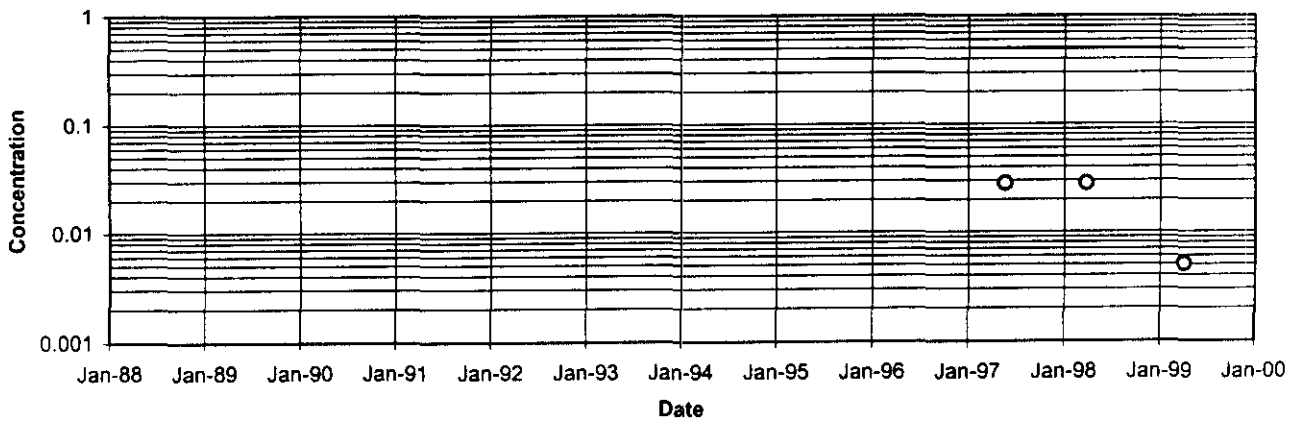
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

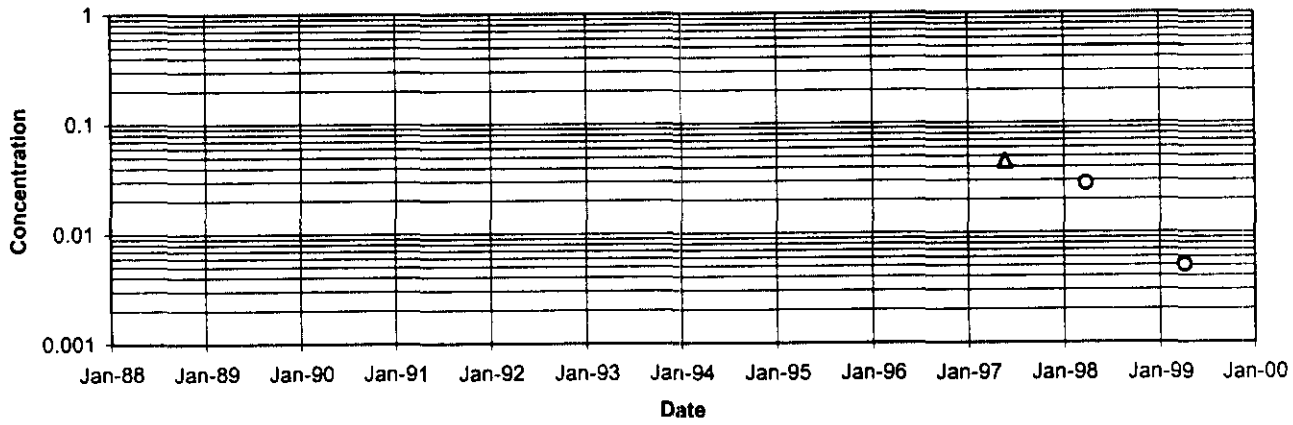
G113



G113A



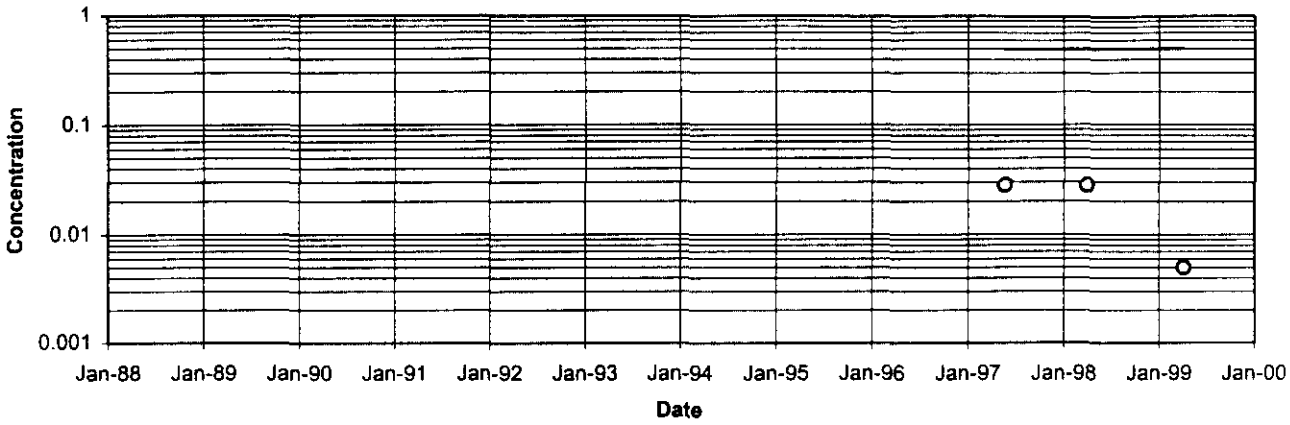
G114



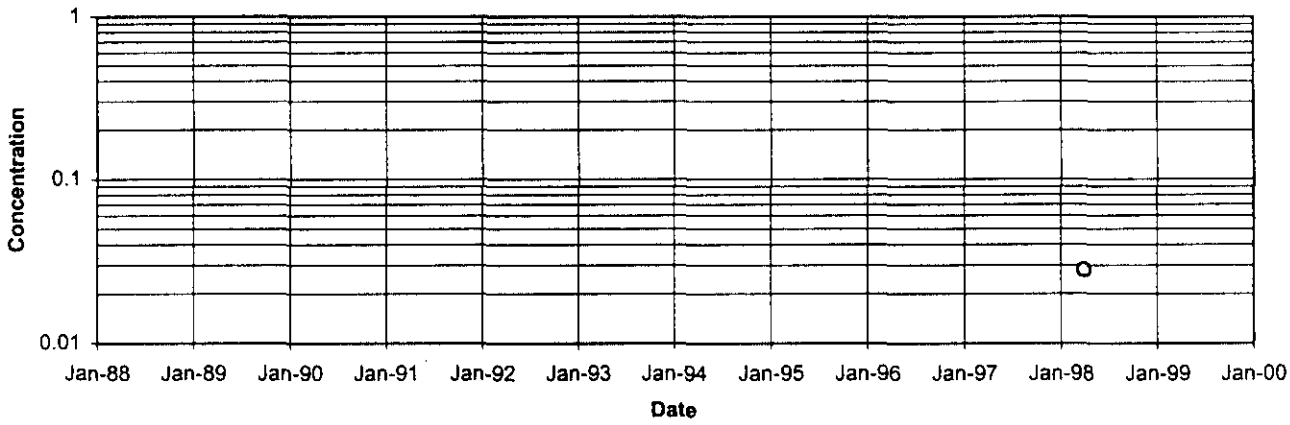
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

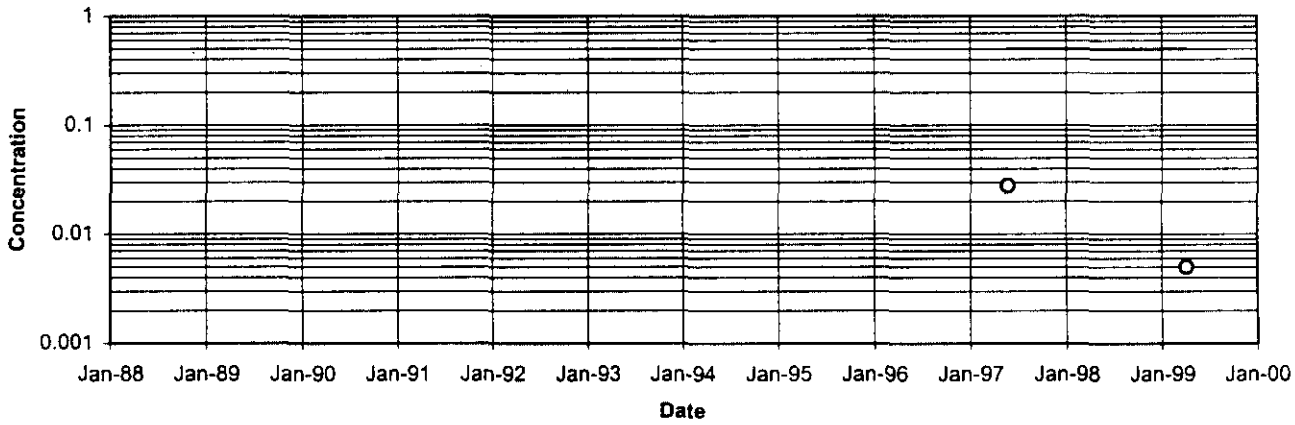
G115



G116



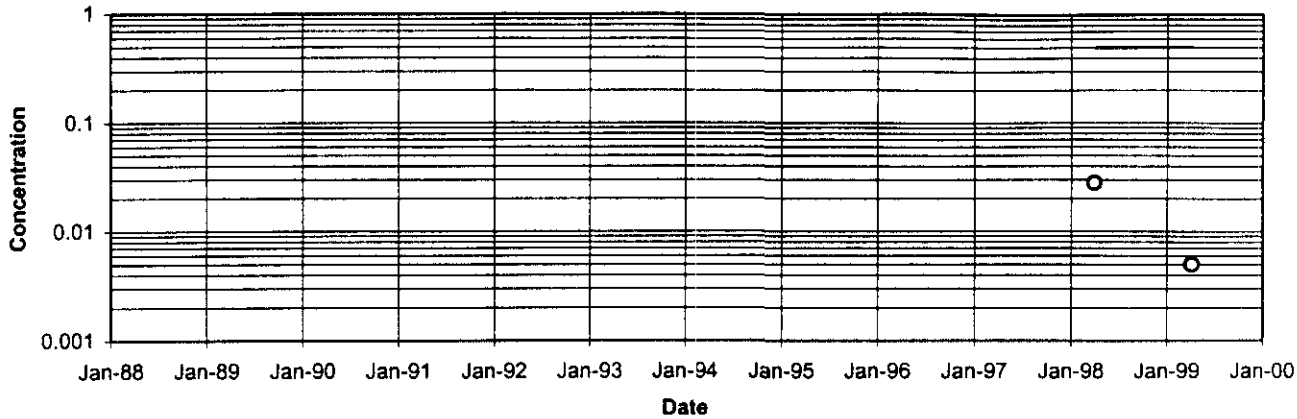
G116A



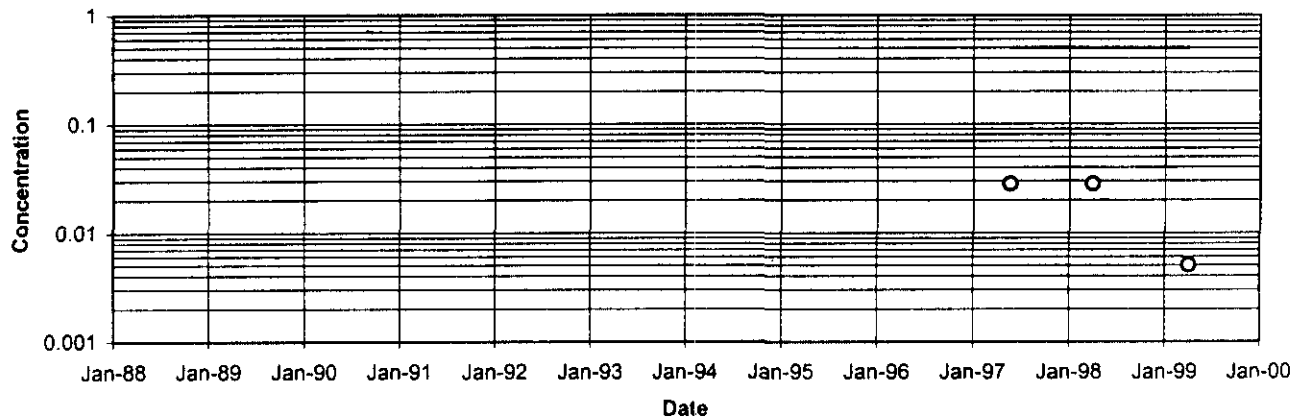
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

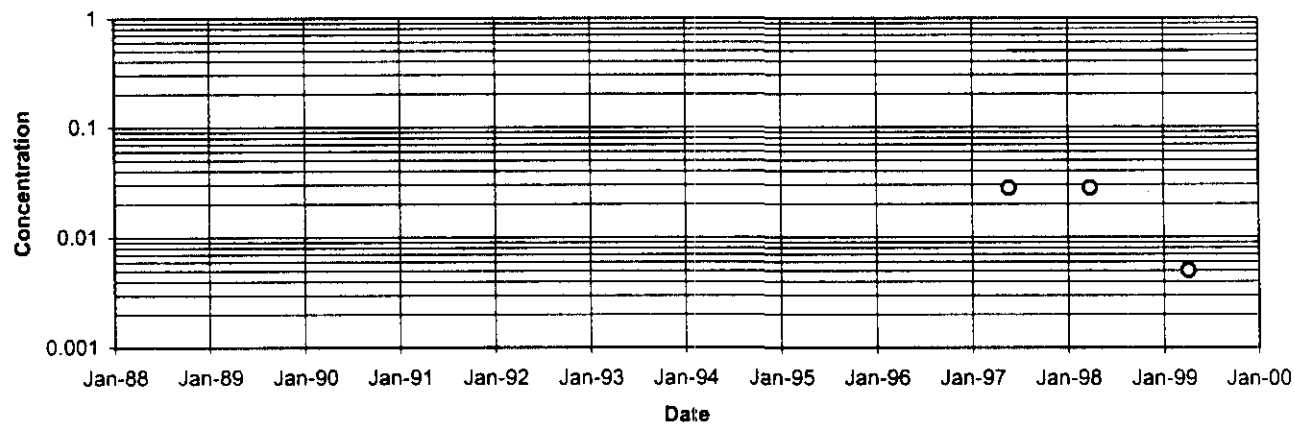
G116D



G117



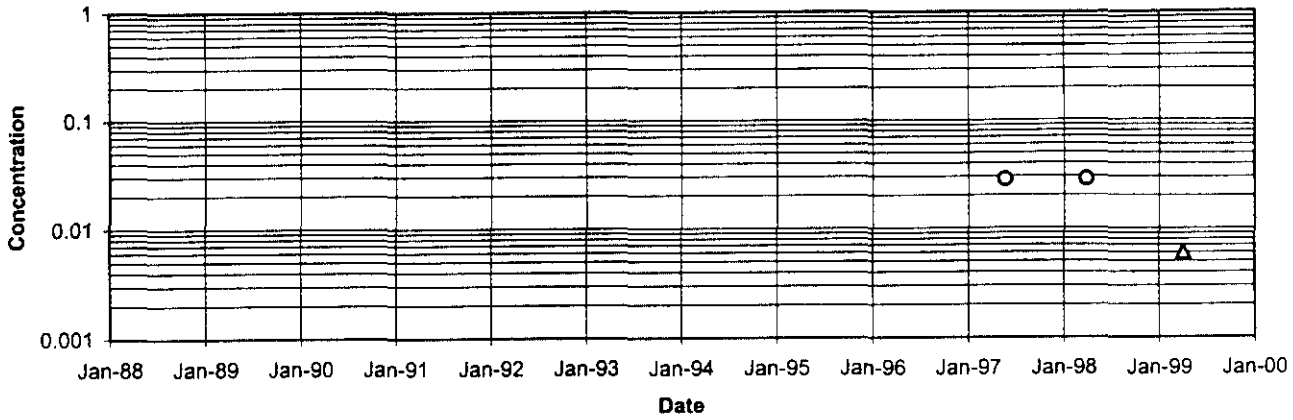
G118A



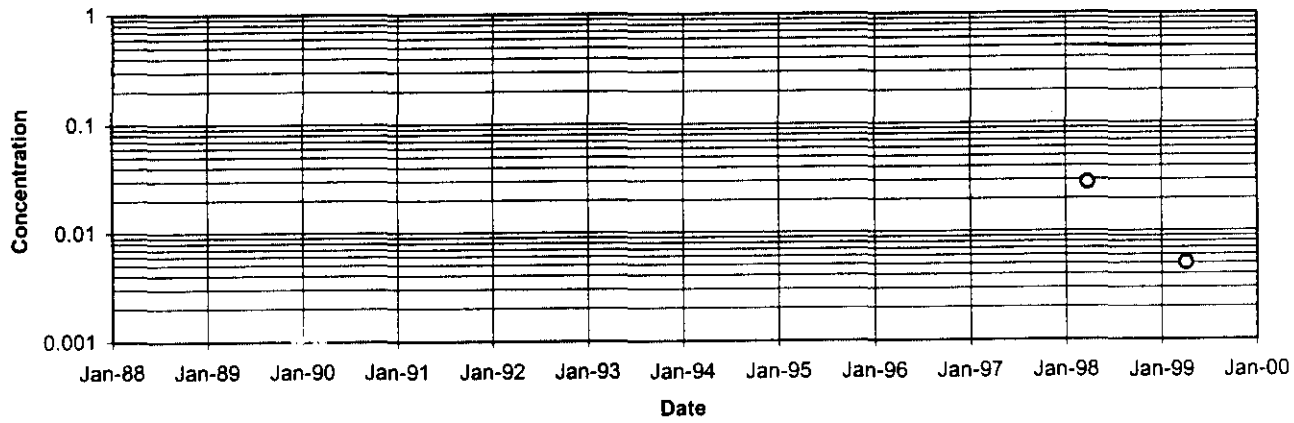
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

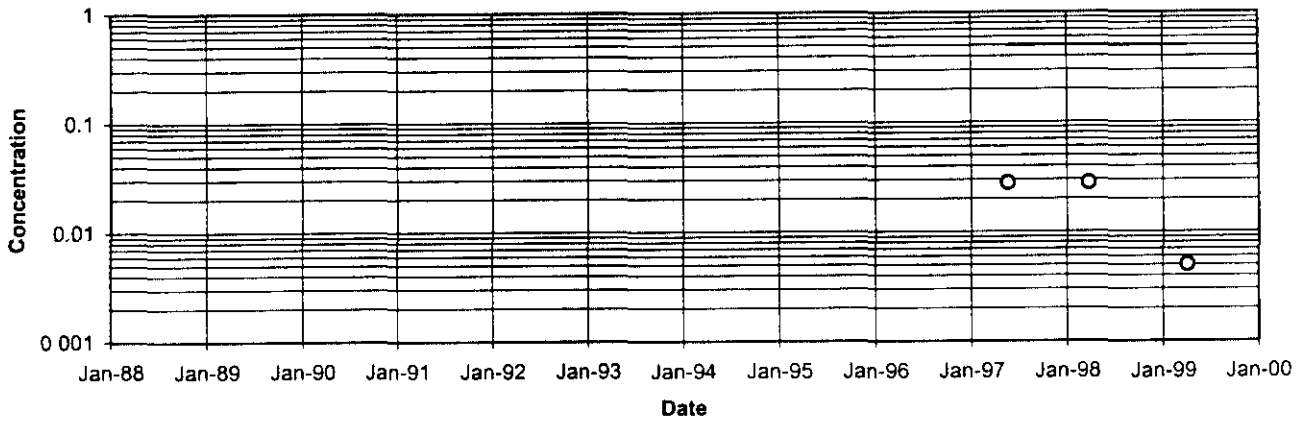
G118R



G119



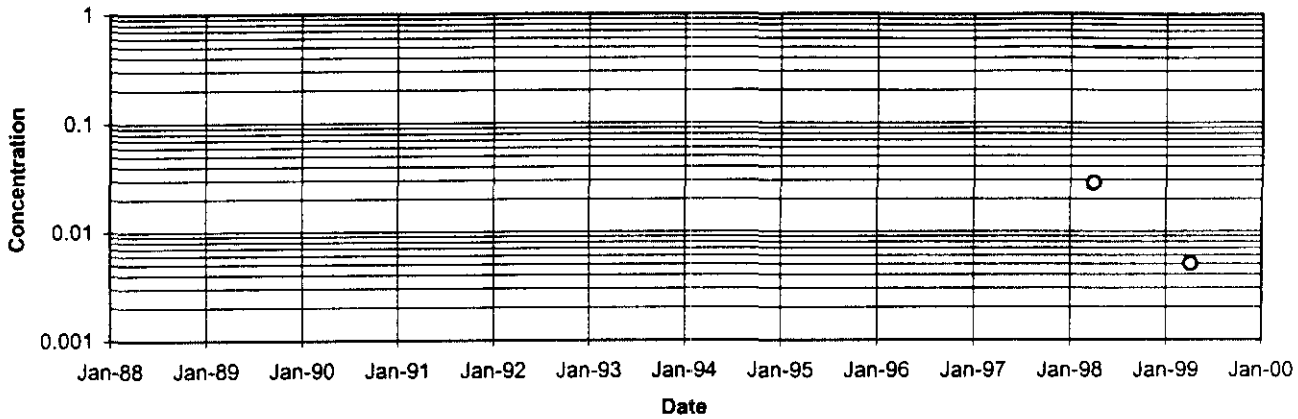
G120B



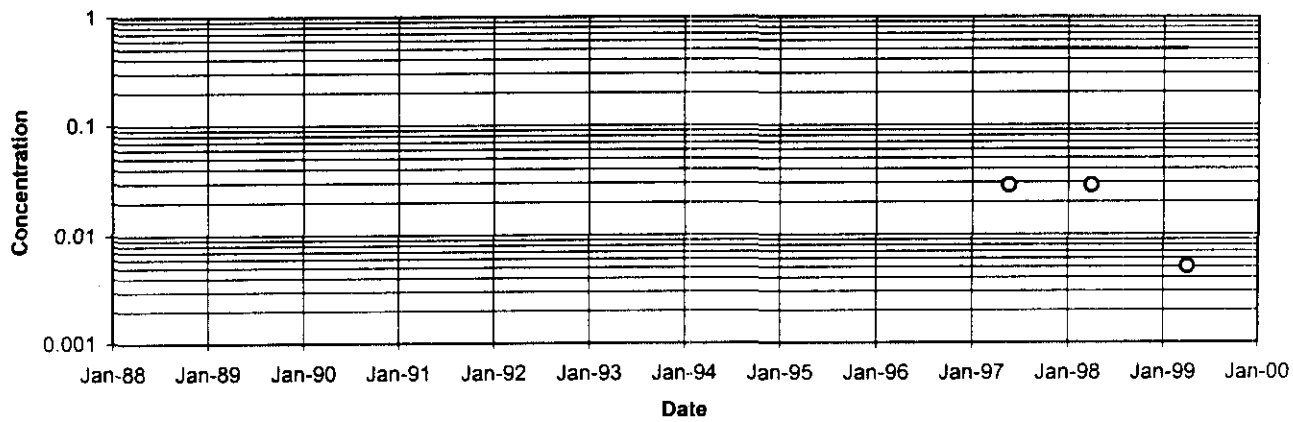
Antimony (mg/L)

AGQS Δ Concentration ○ NonDetect

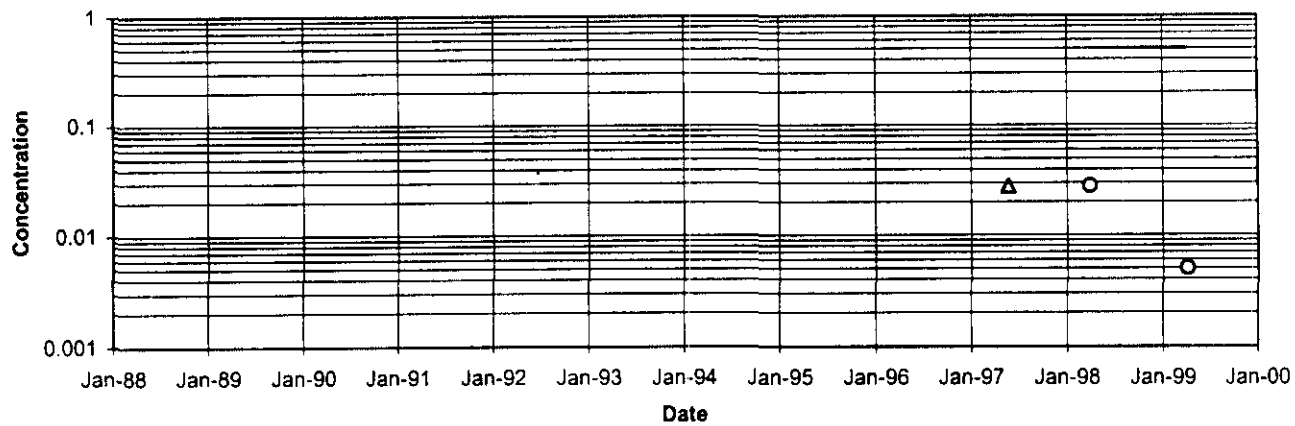
G130



G132



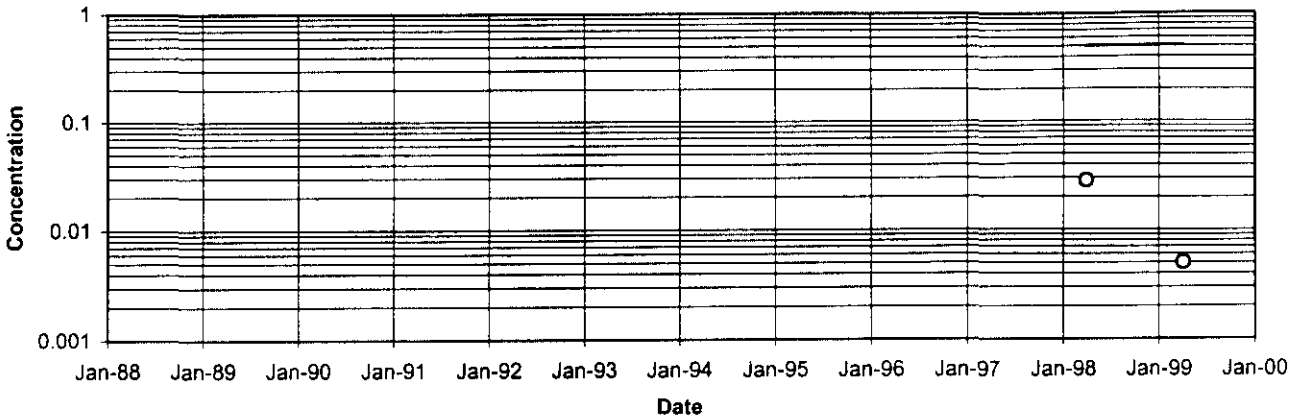
G33D



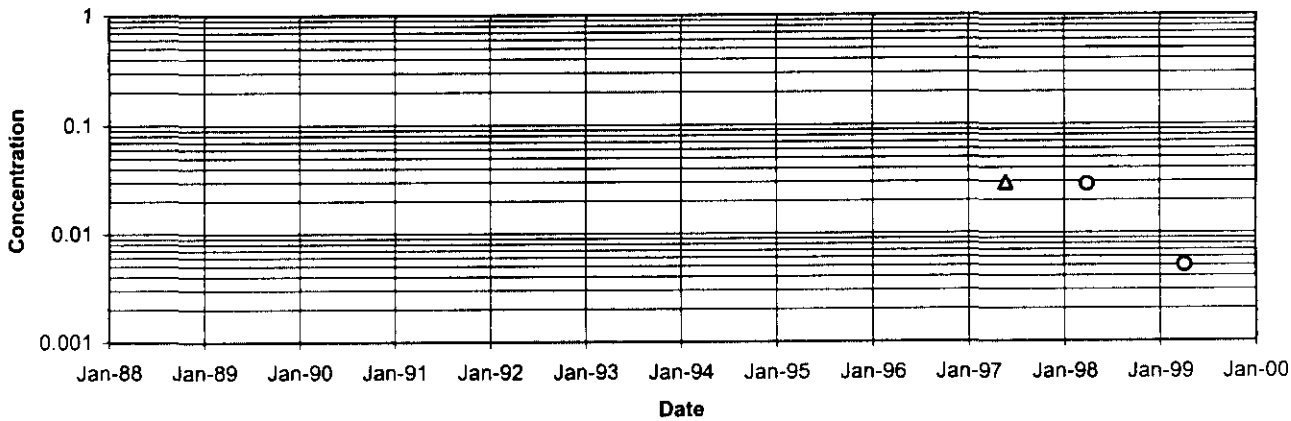
Antimony (mg/L)

AGQS Δ Concentration ○ NonDetect

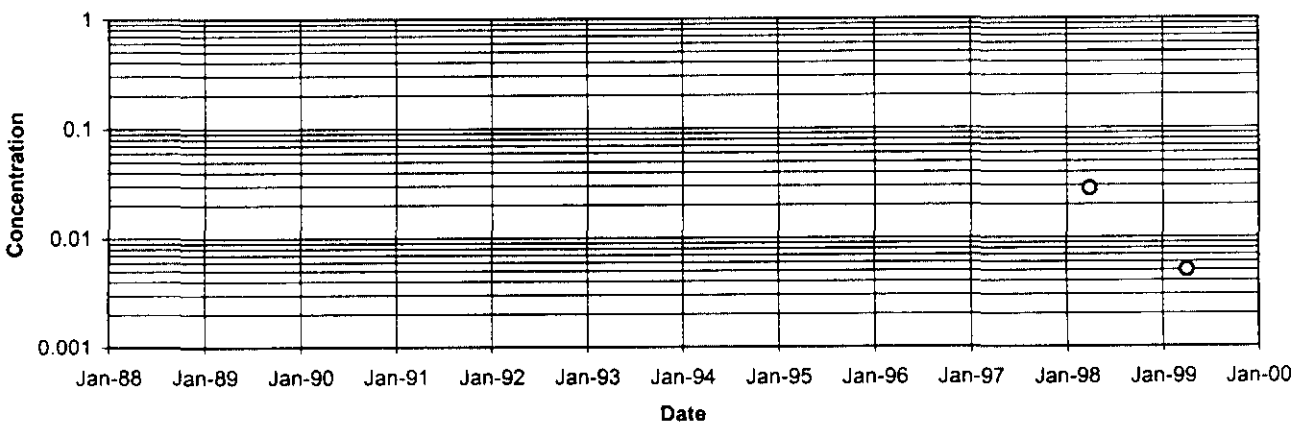
G33S



G34D



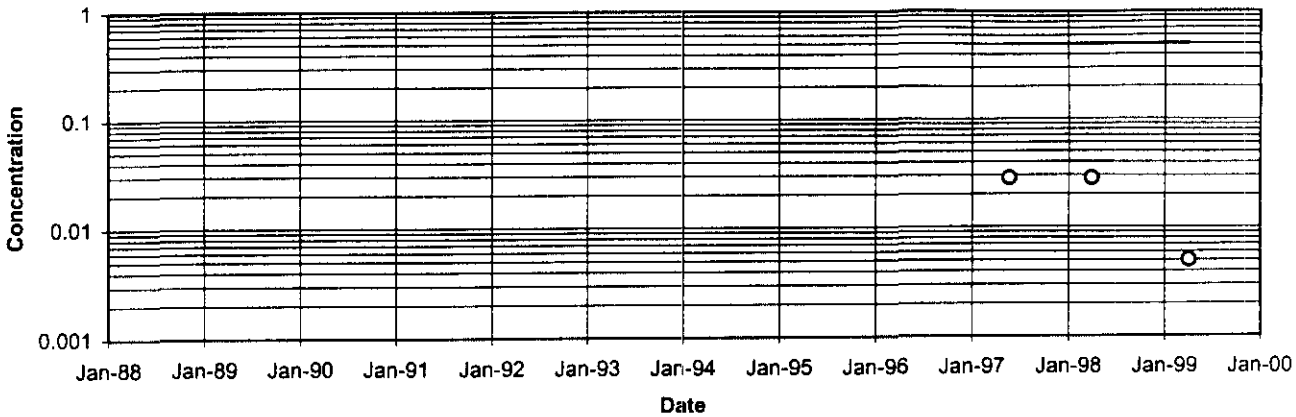
G34S



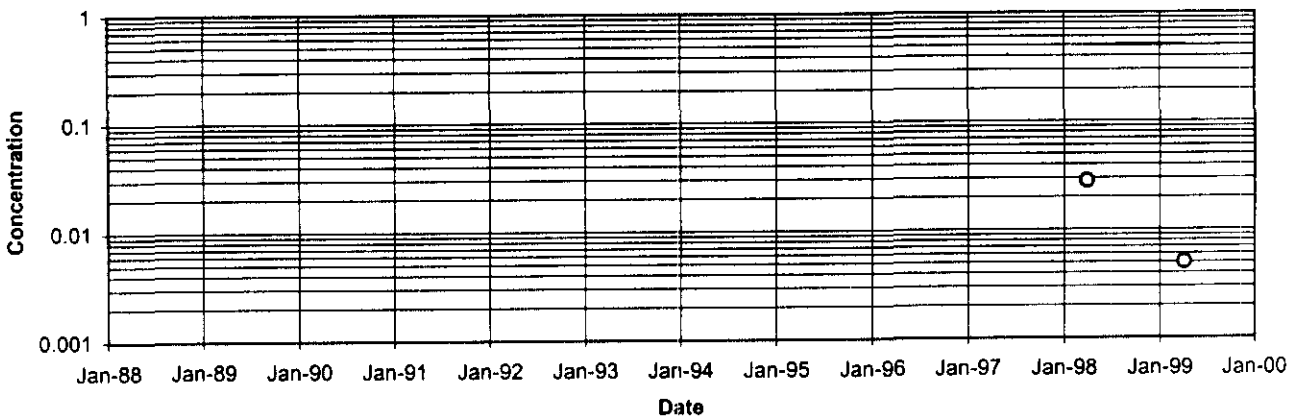
Antimony (mg/L)

AGQS Δ Concentration ○ NonDetect

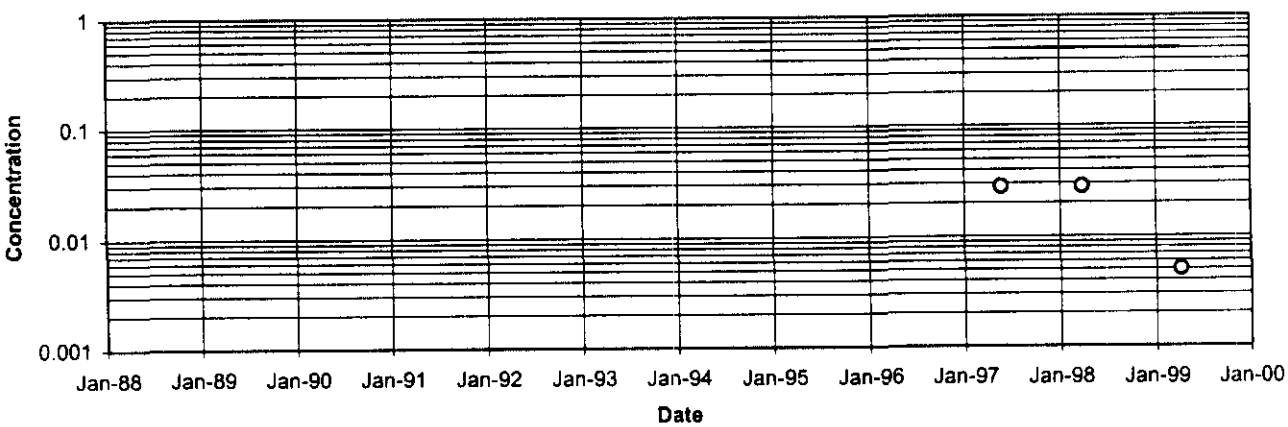
G35D



G35S



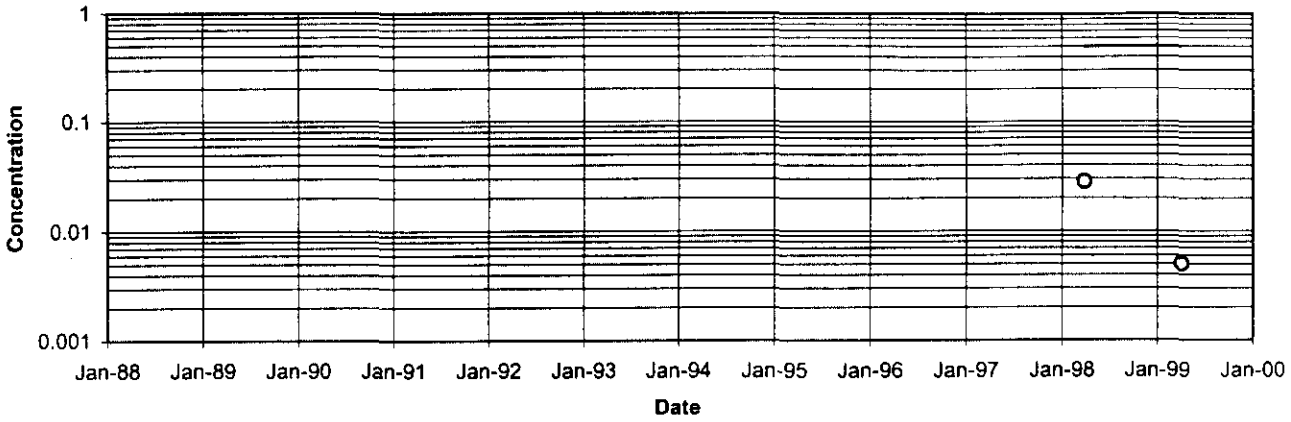
G36



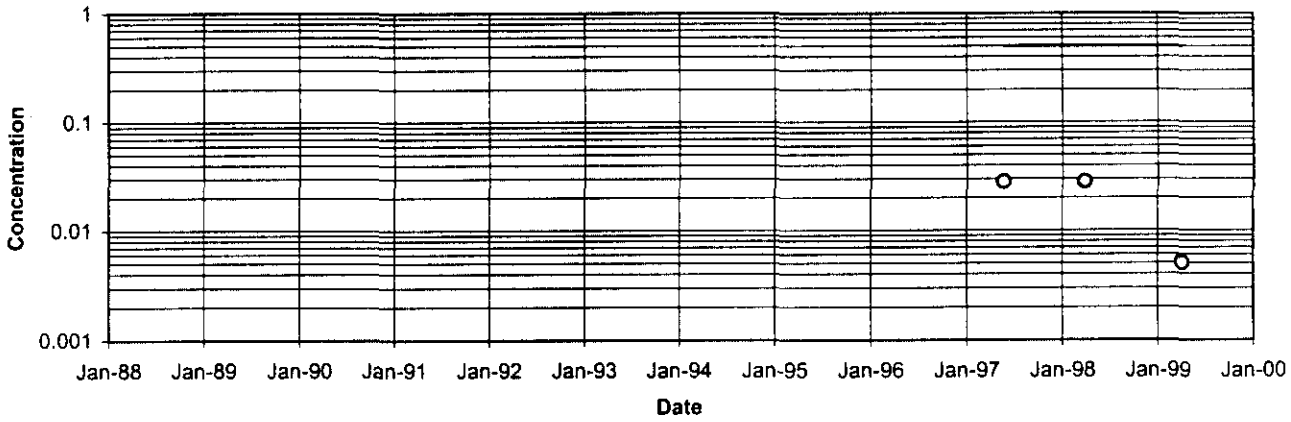
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

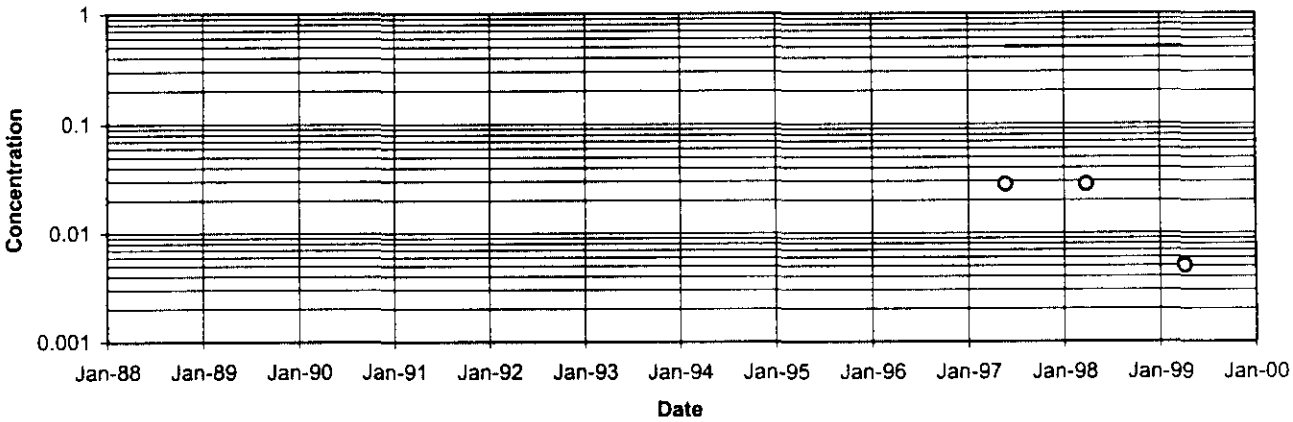
G37D



G37S



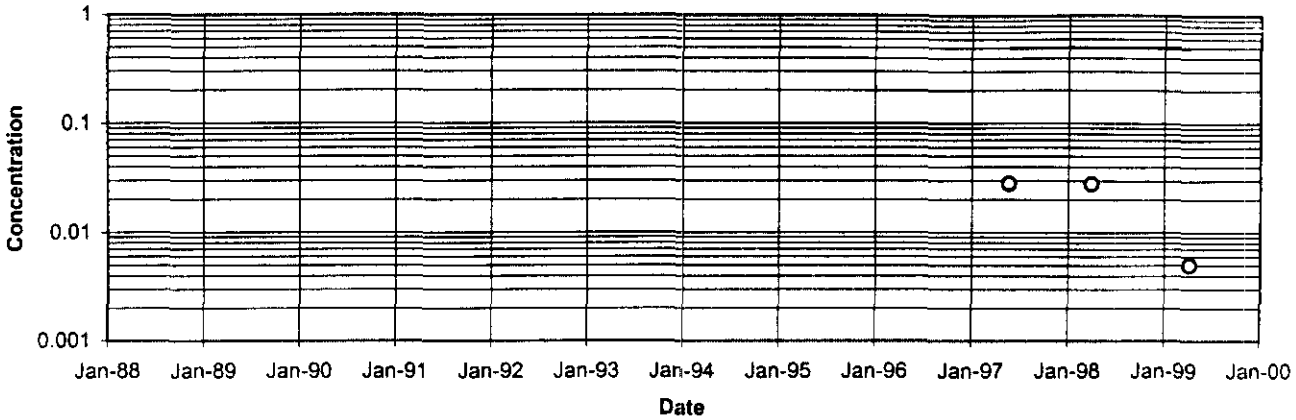
G38



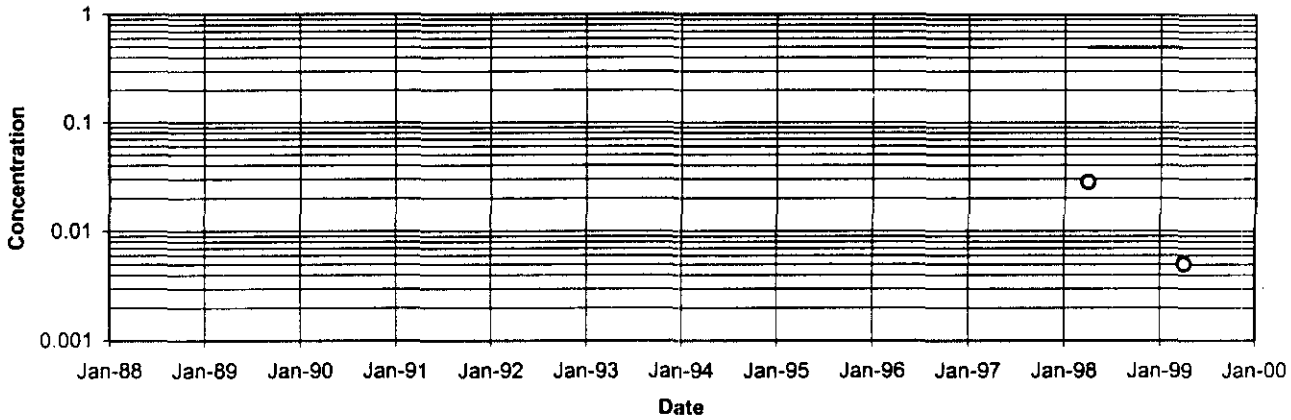
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

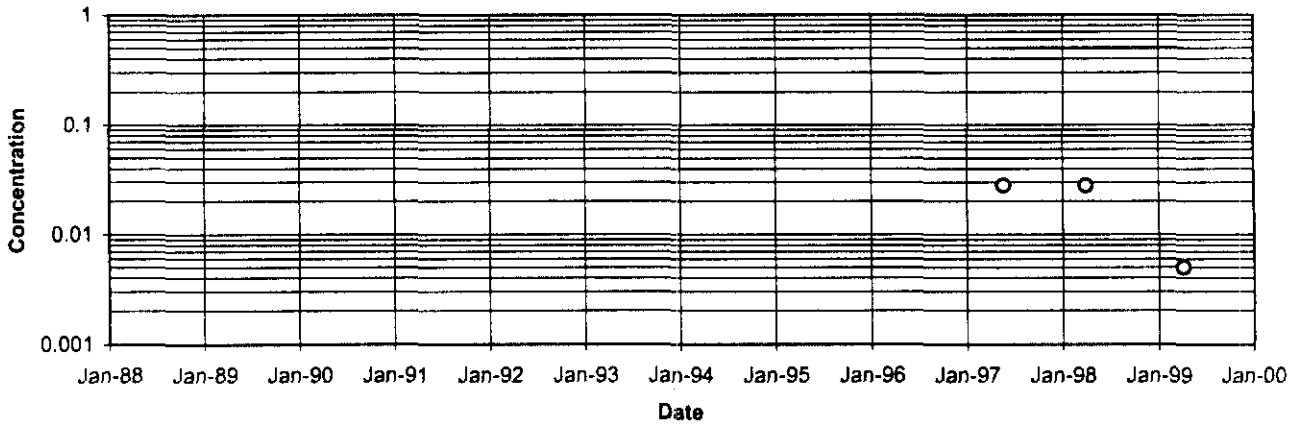
G39



G40



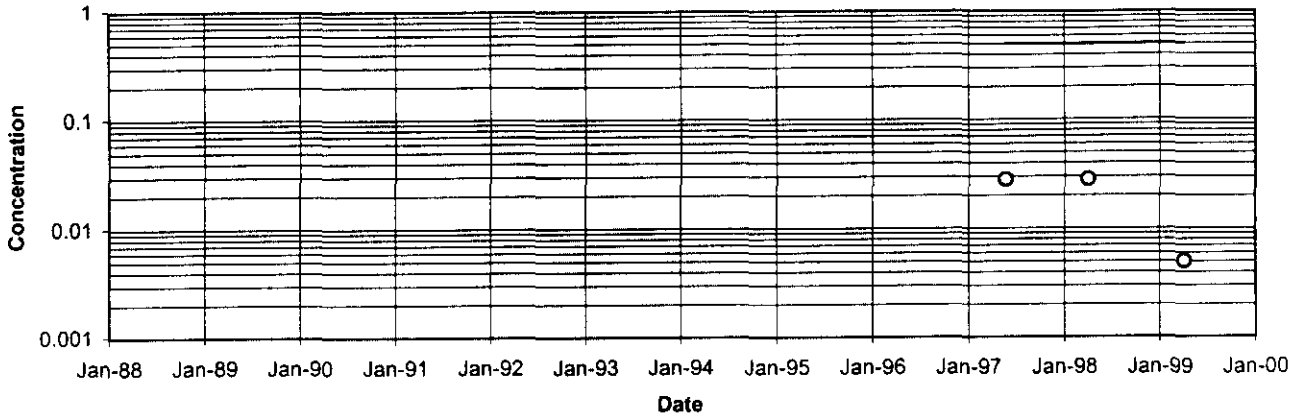
MW106



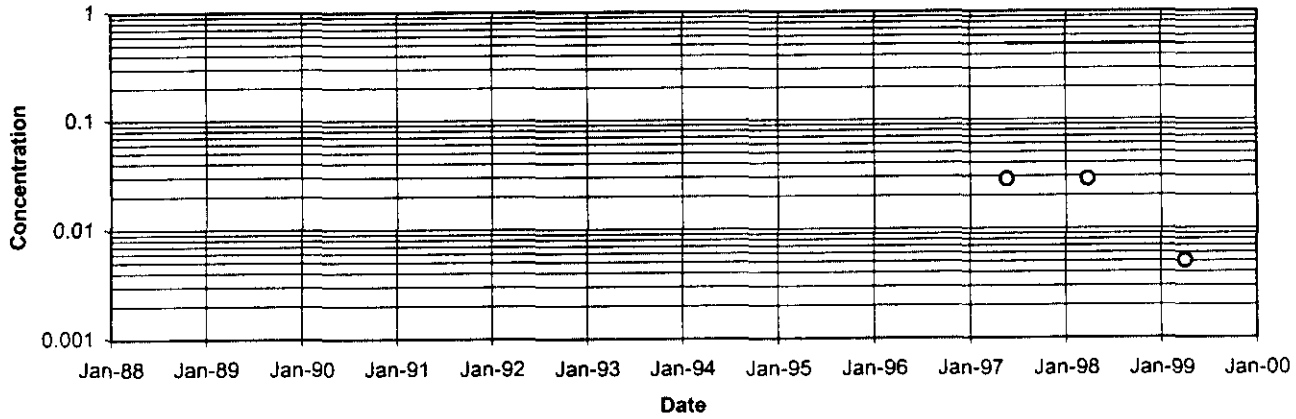
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

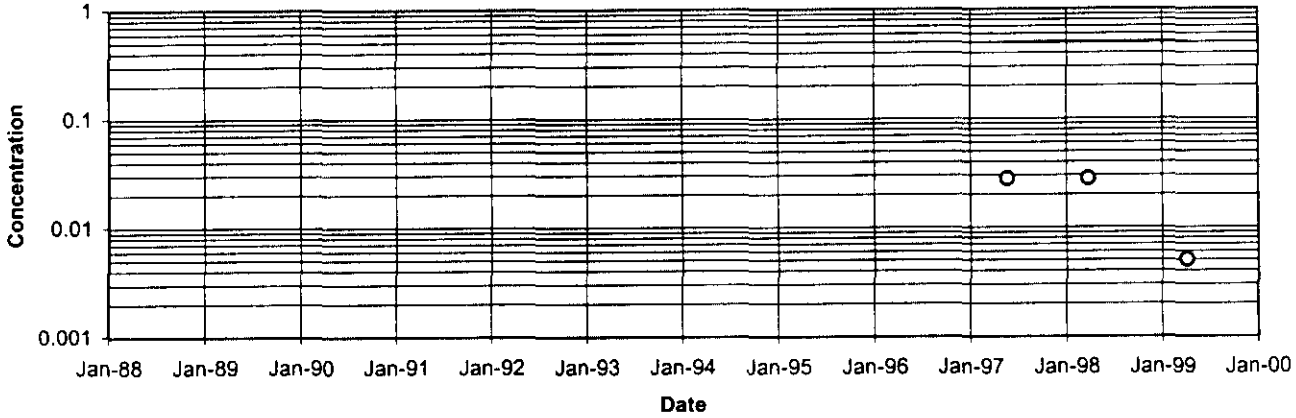
P1



P3R



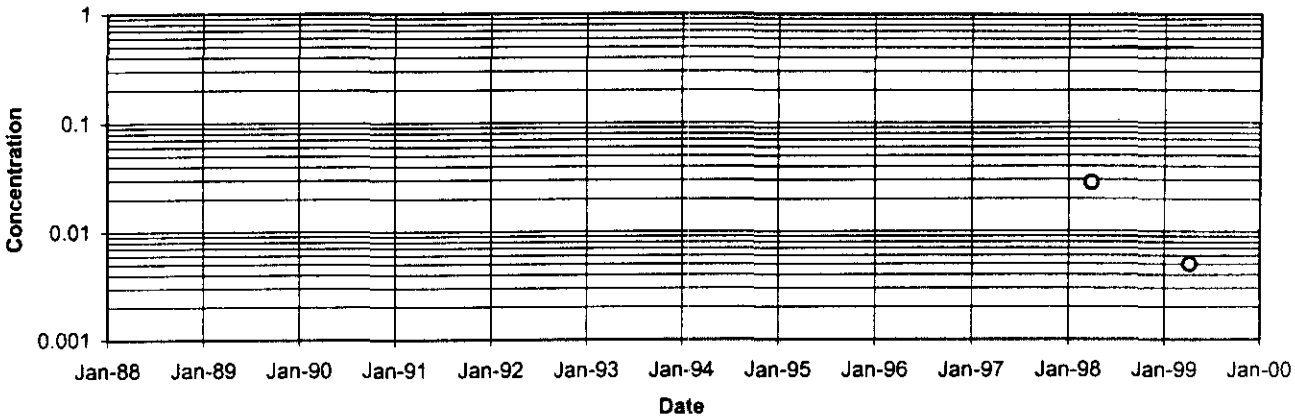
P4R



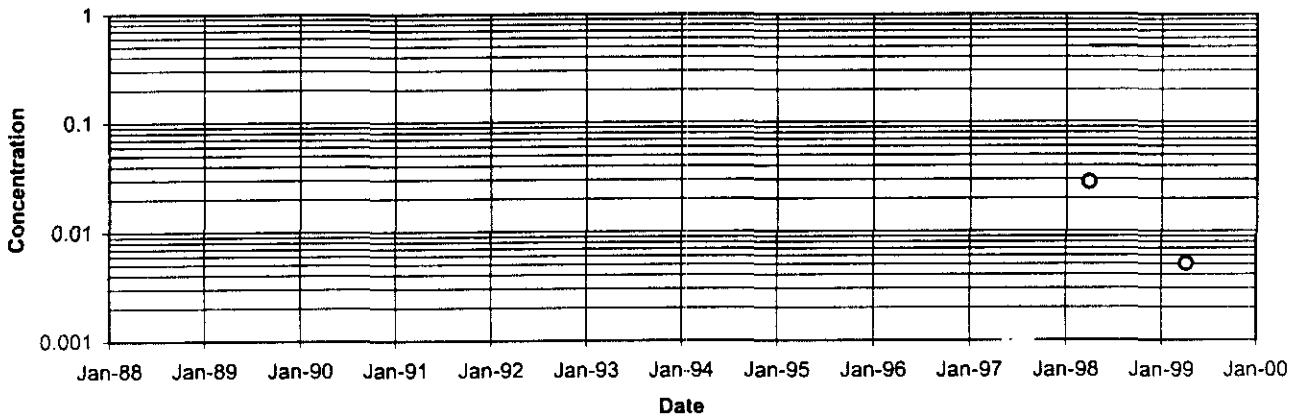
Antimony (mg/L)

AGQS Δ Concentration O NonDetect

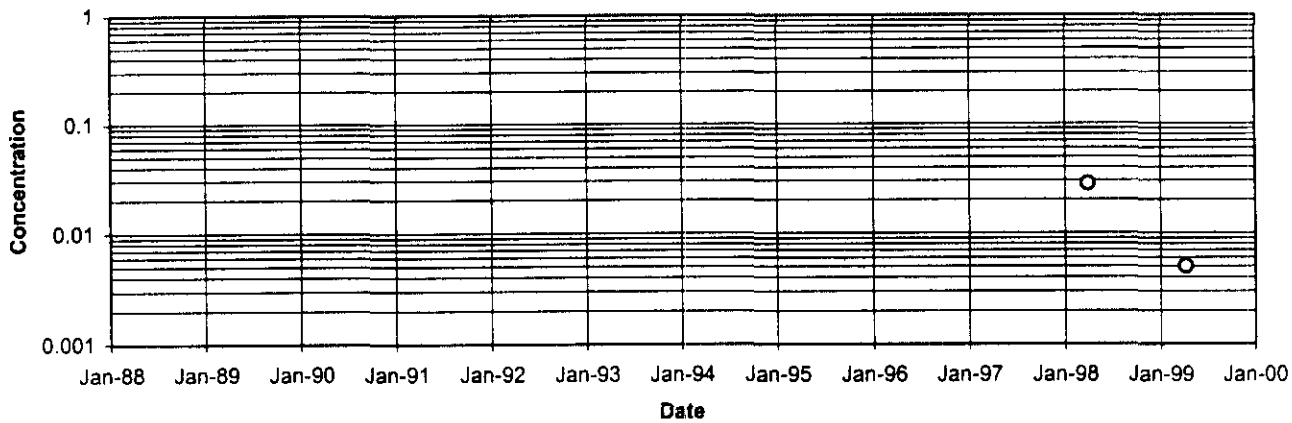
SG1



SG3



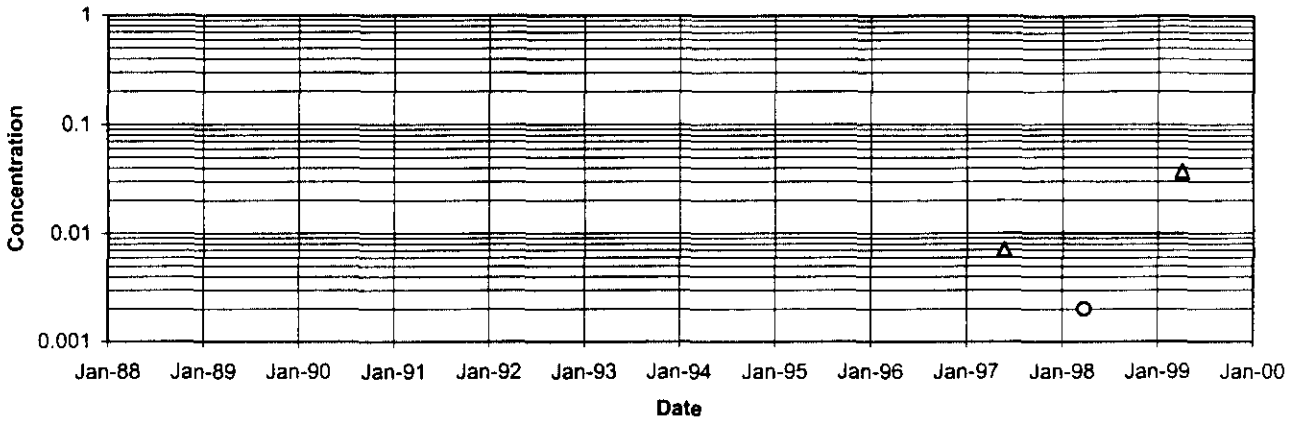
SG4



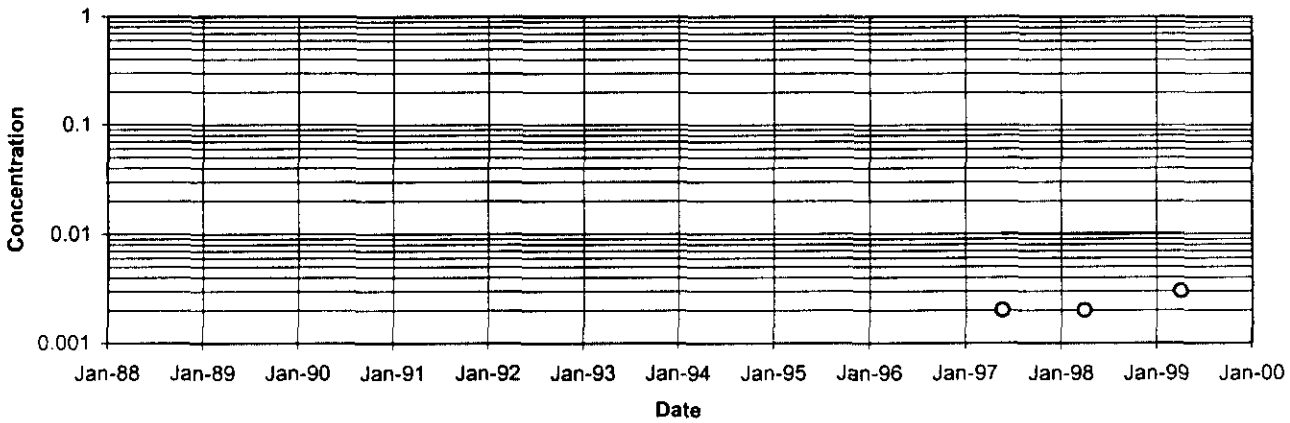
Arsenic (mg/L)

AGQS Δ Concentration ○ NonDetect

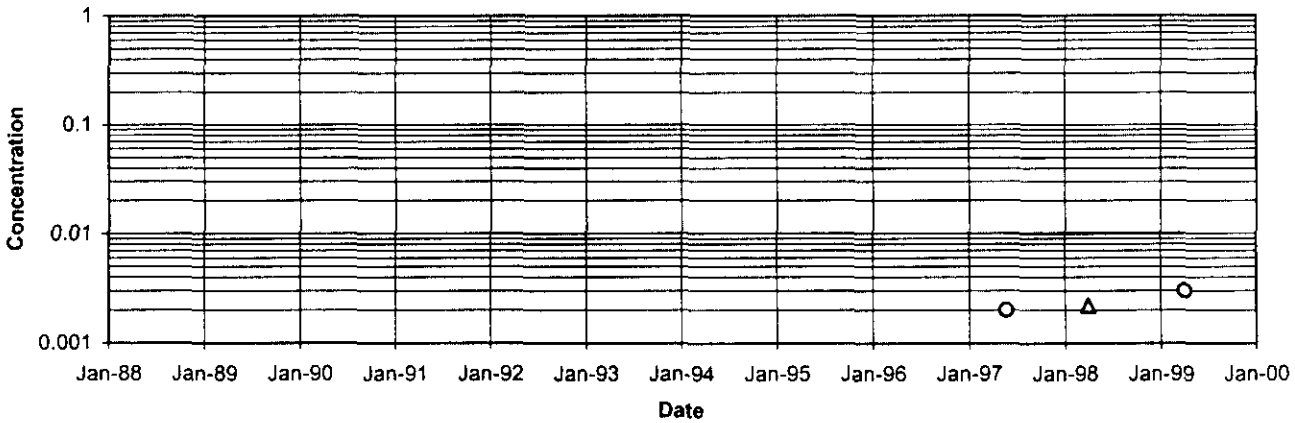
B15R



G109



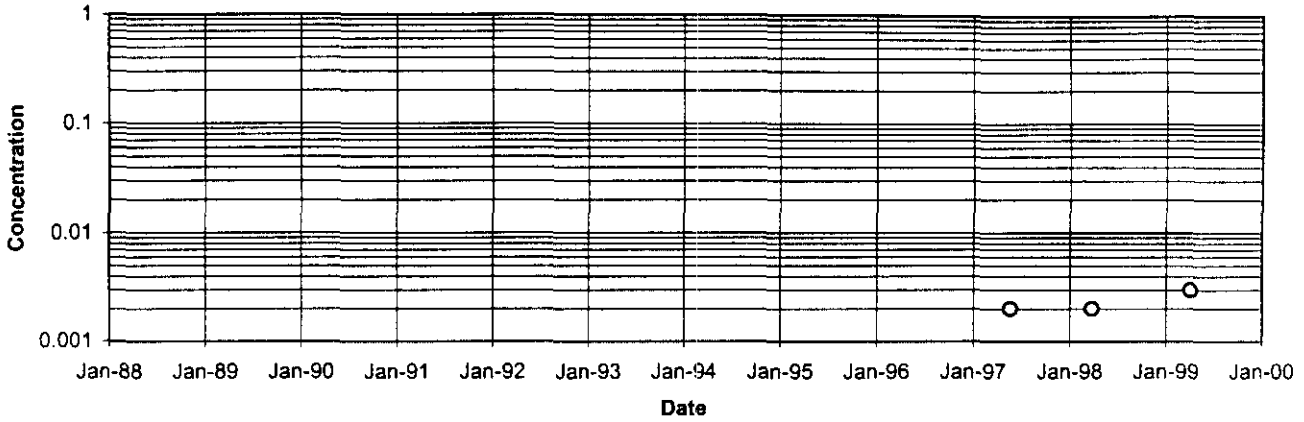
G109A



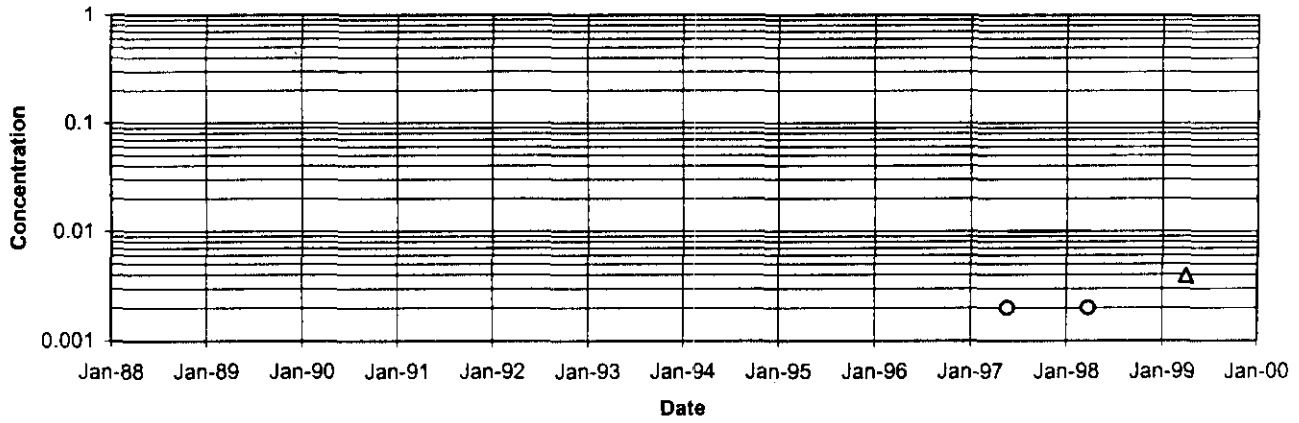
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

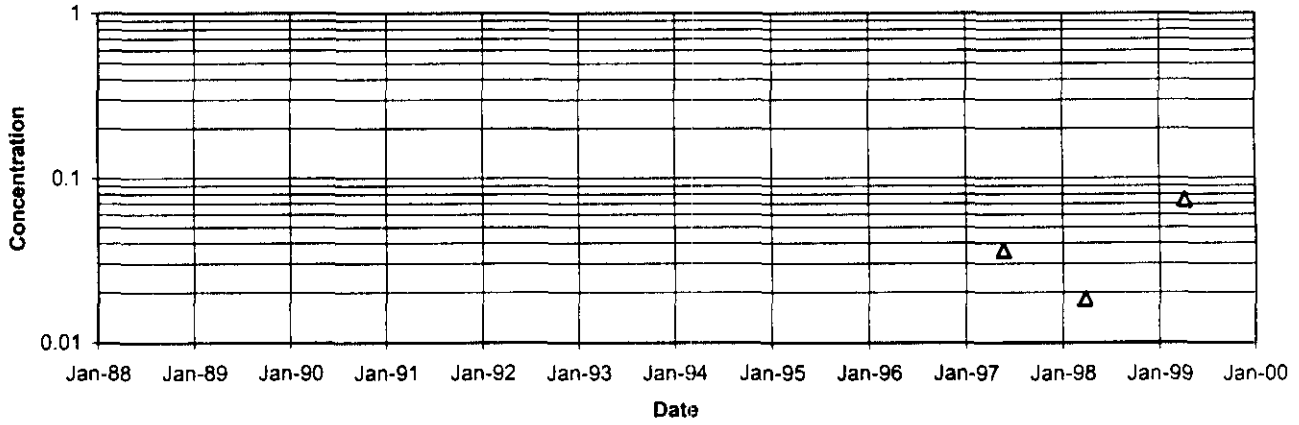
G113



G113A



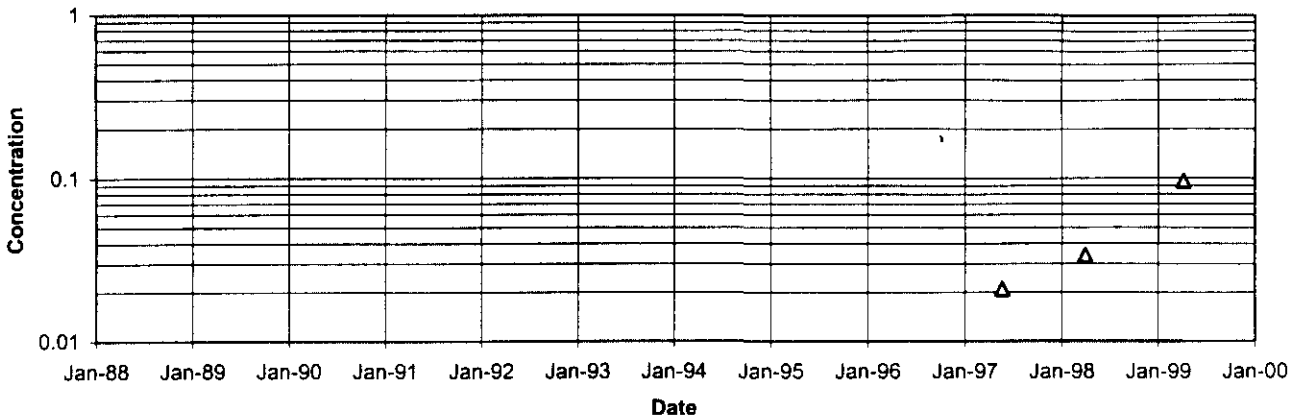
G114



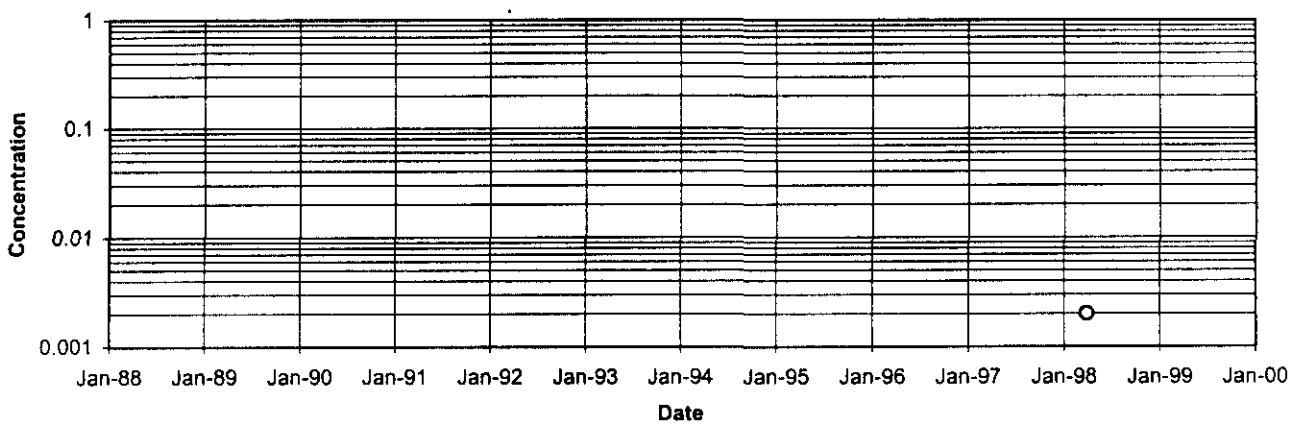
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

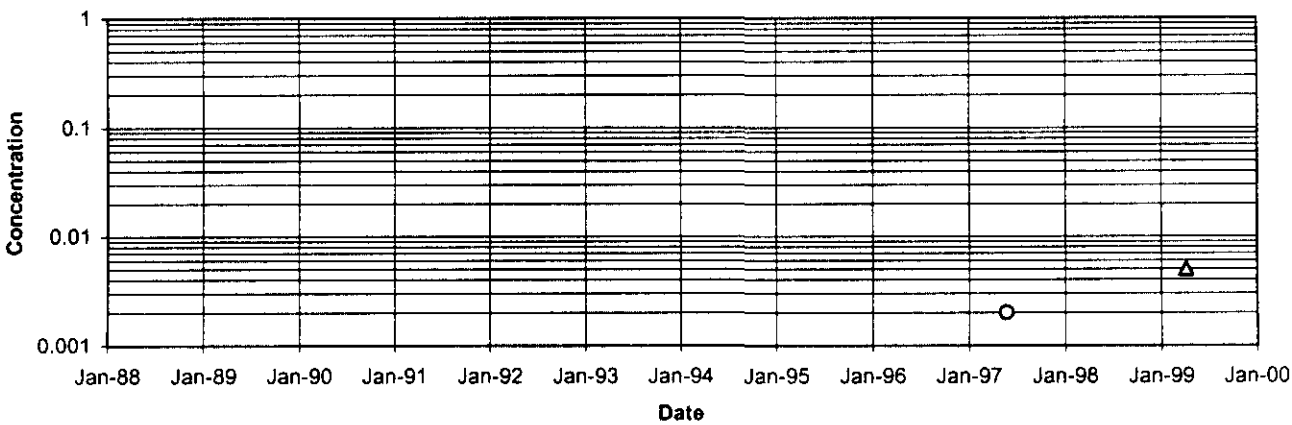
G115



G116



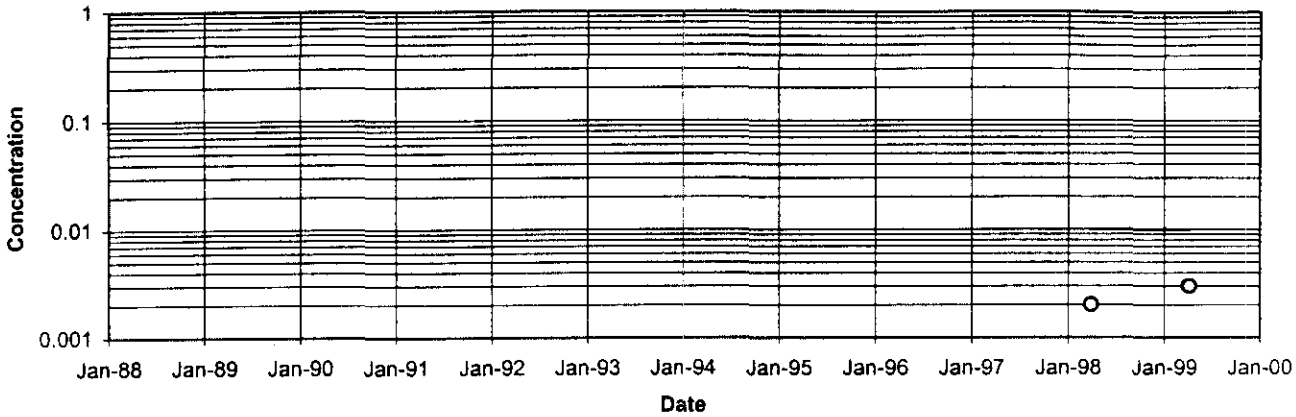
G116A



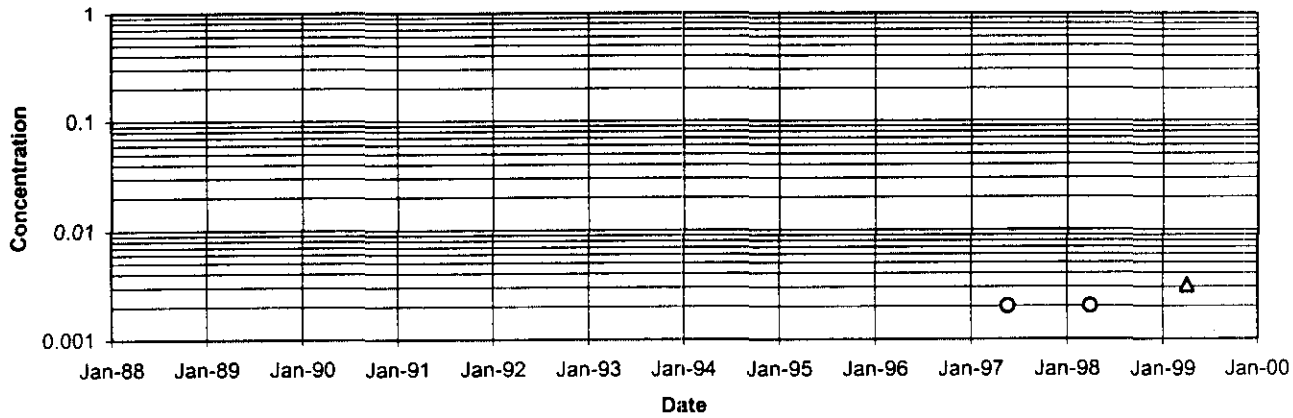
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

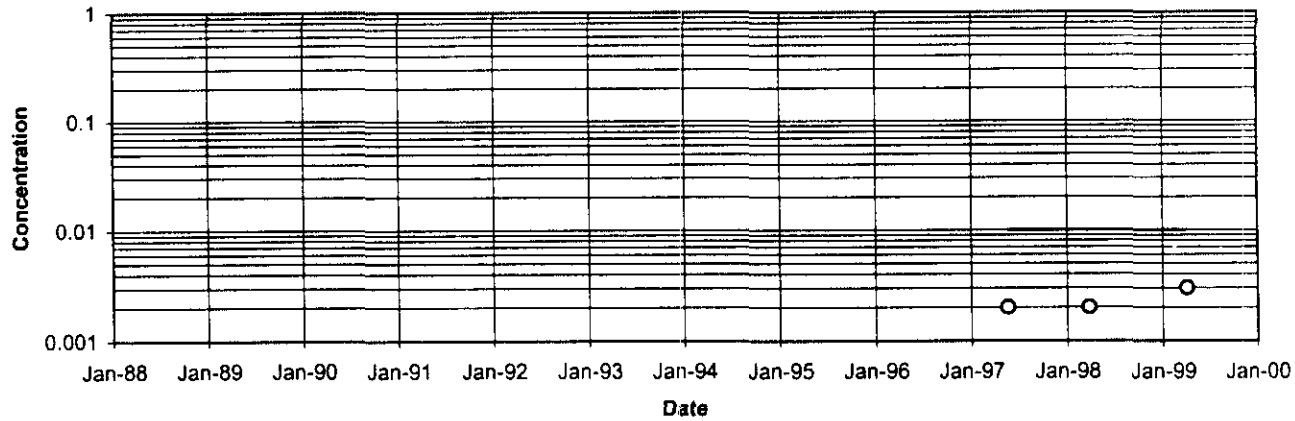
G116D



G117



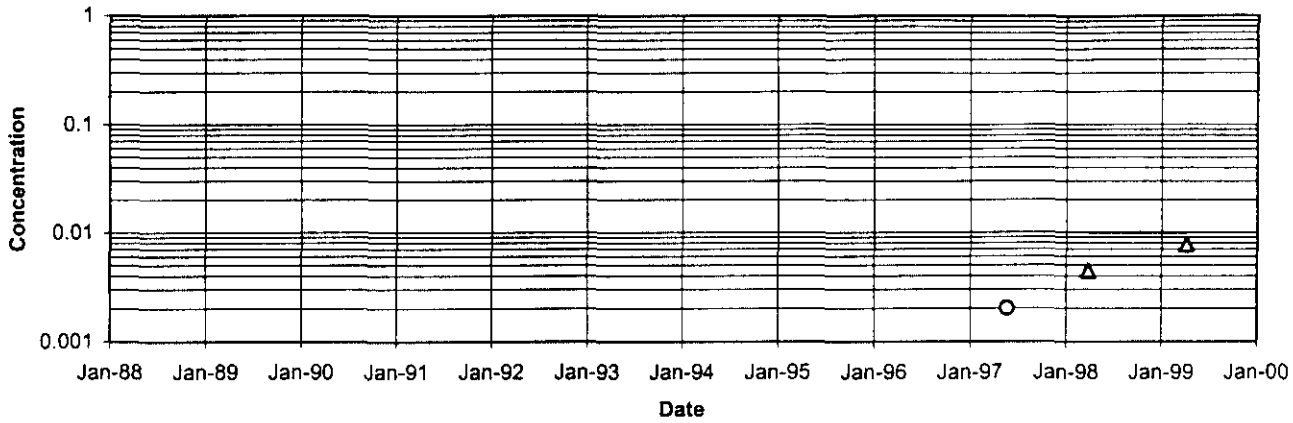
G118A



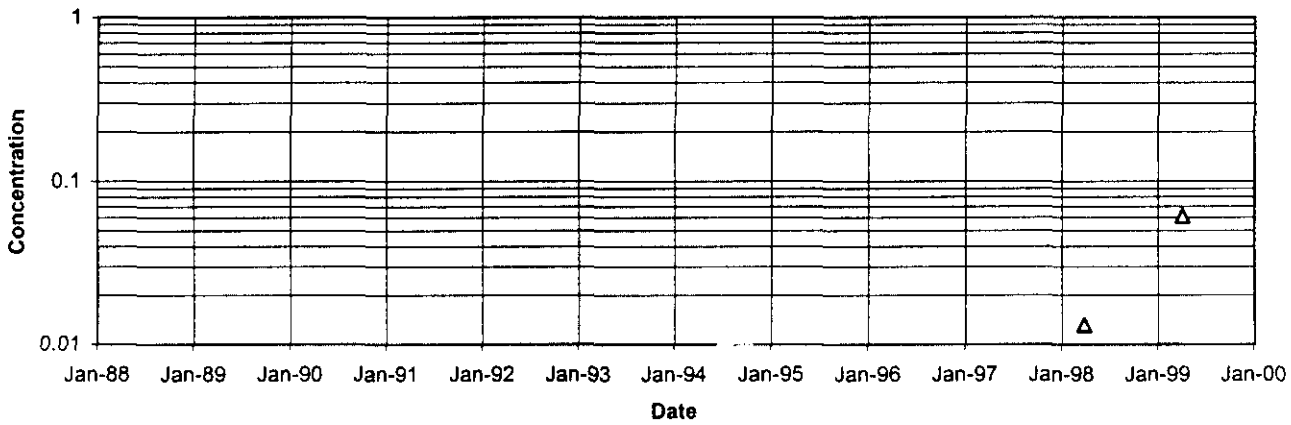
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

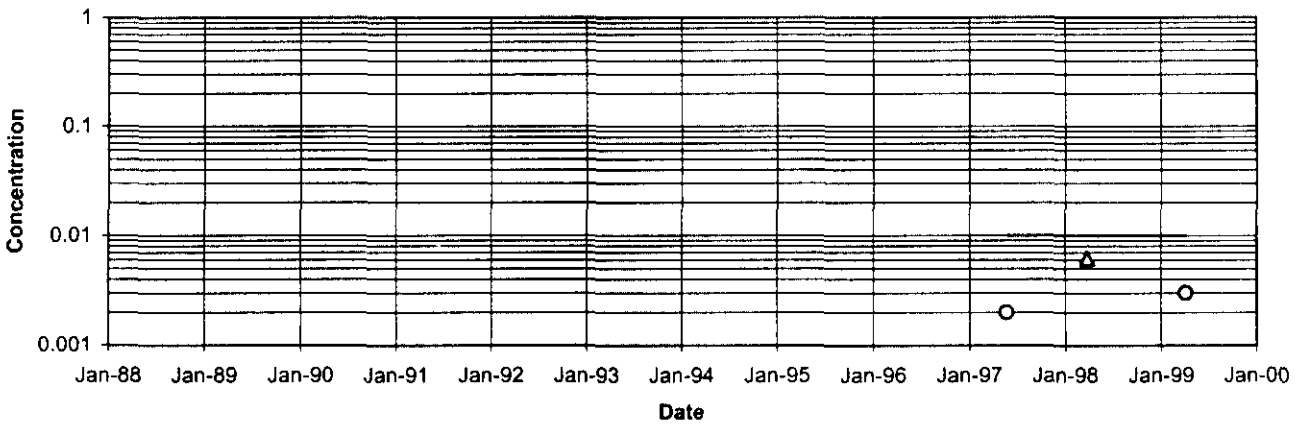
G118R



G119



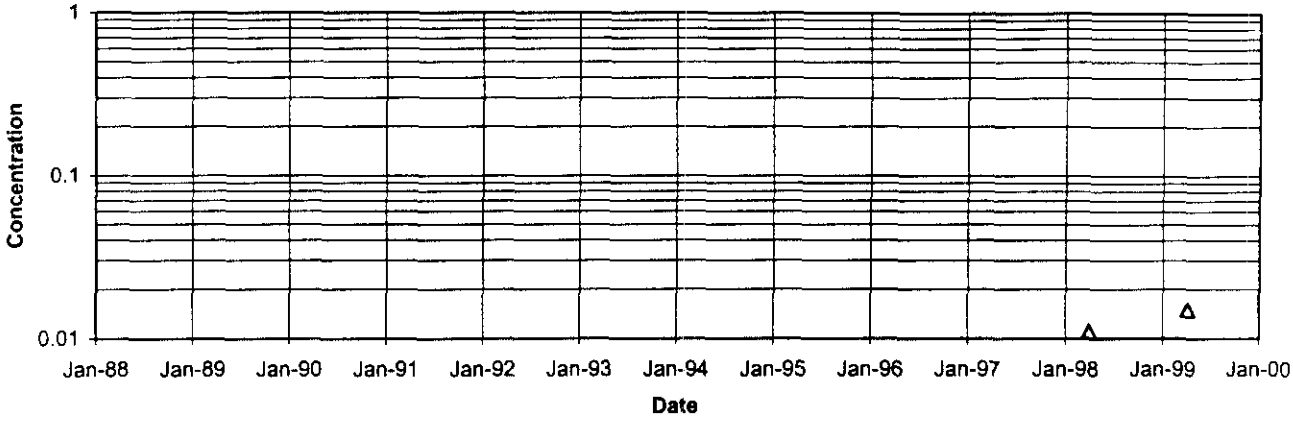
G120B



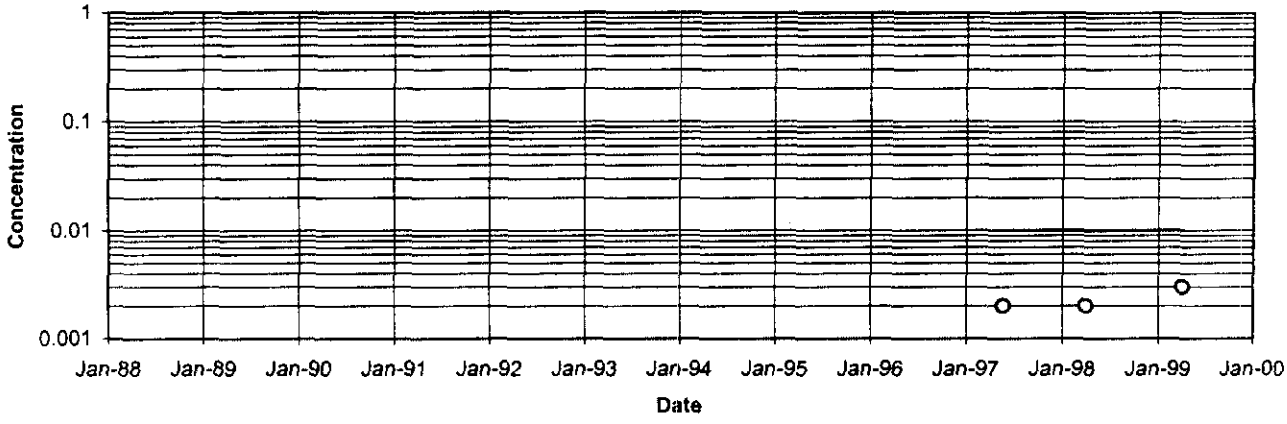
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

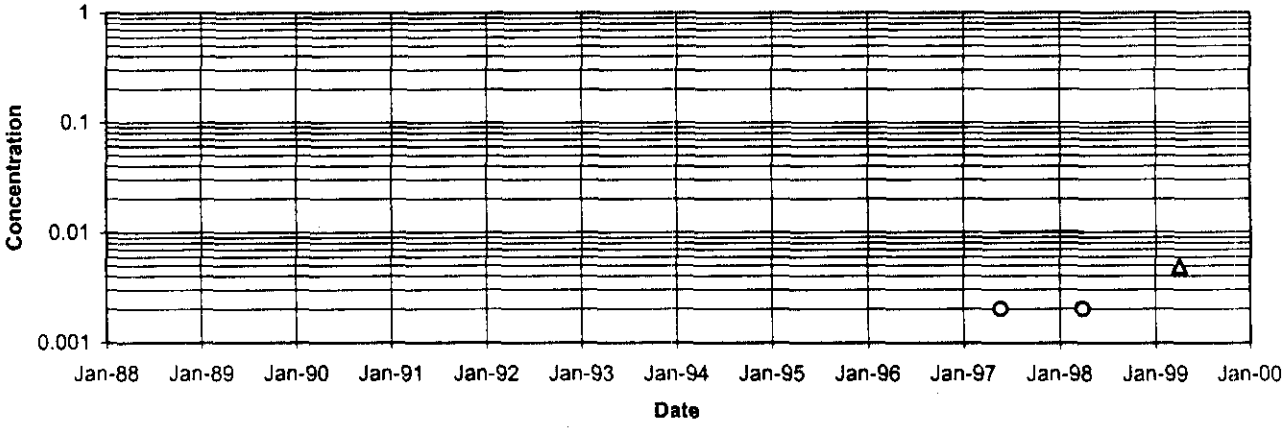
G130



G132



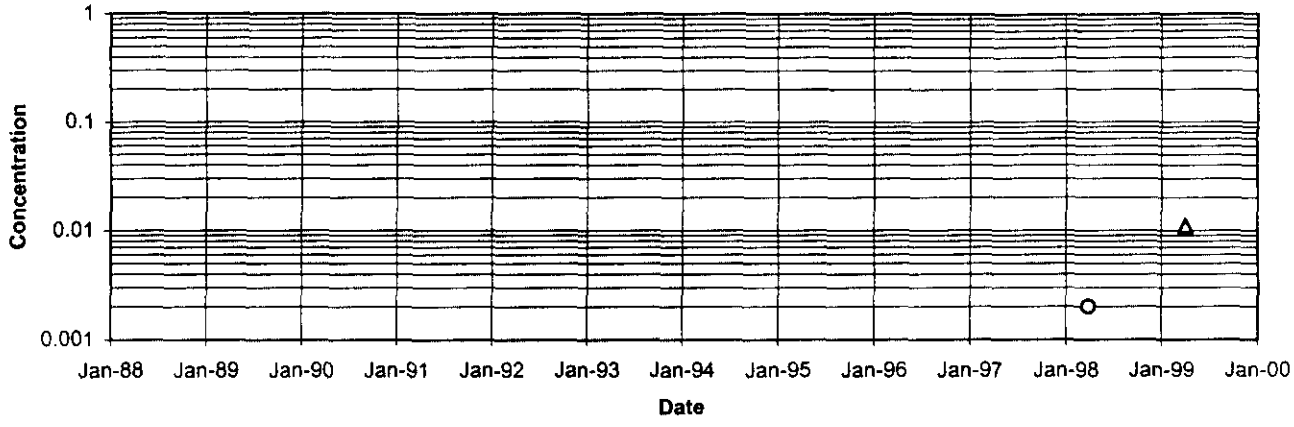
G33D



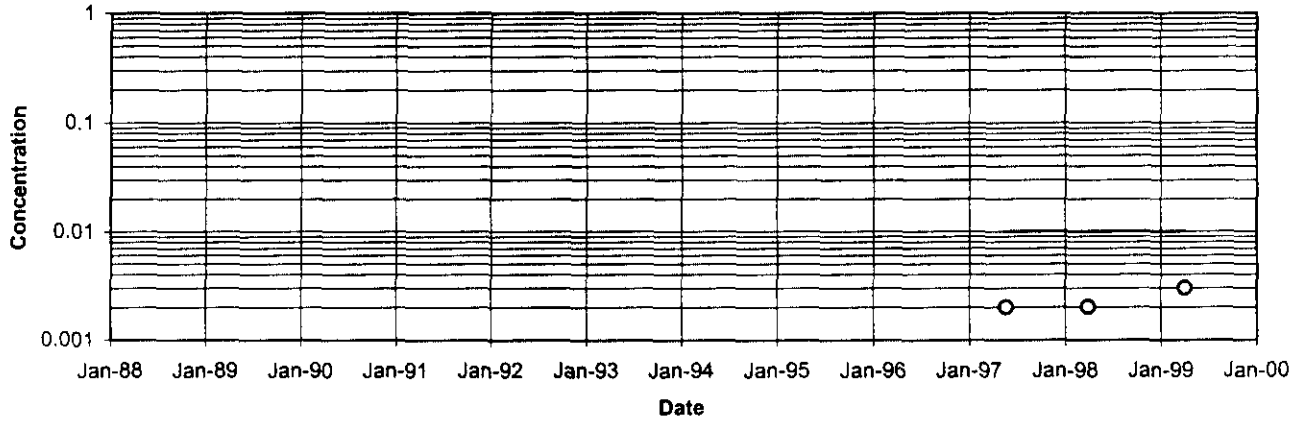
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

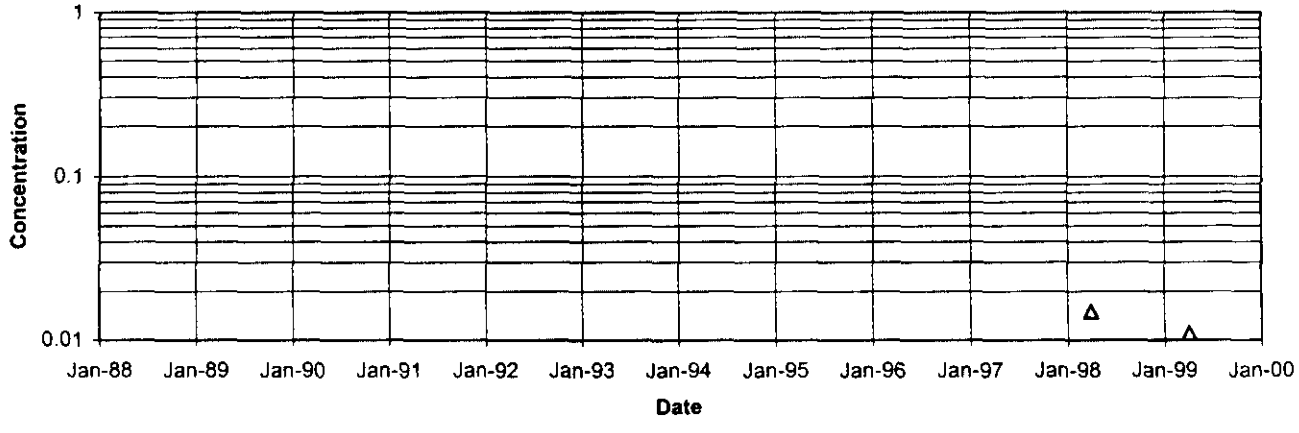
G33S



G34D



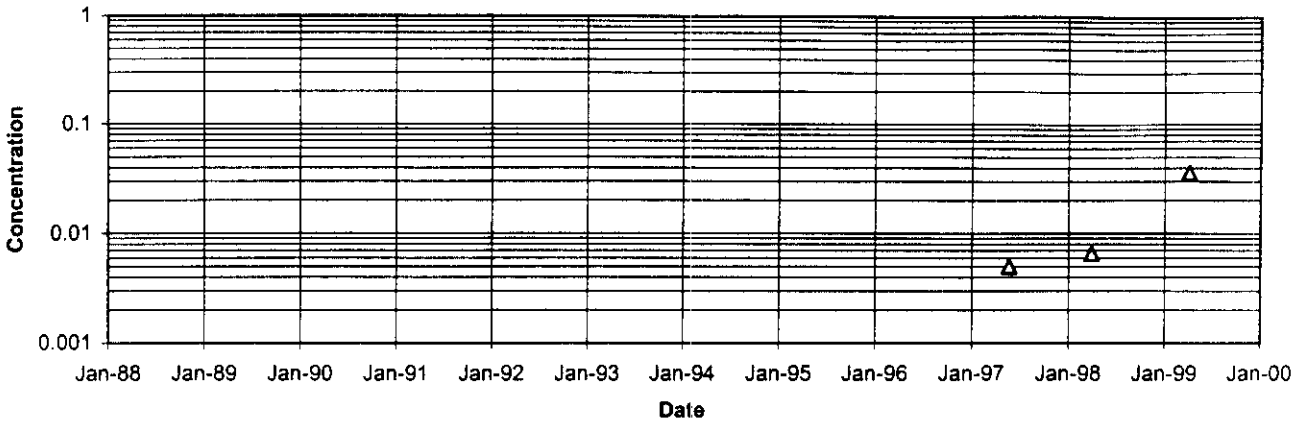
G34S



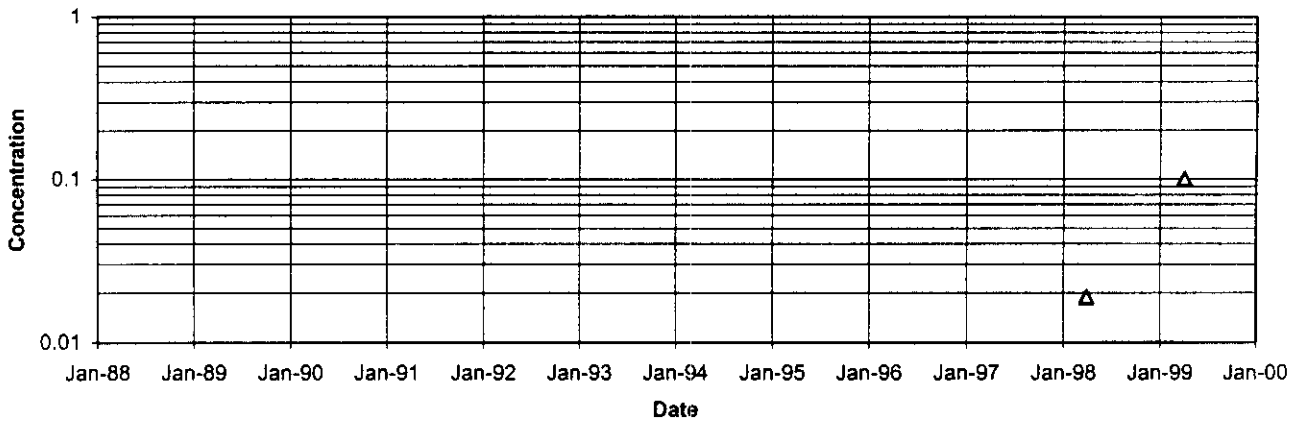
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

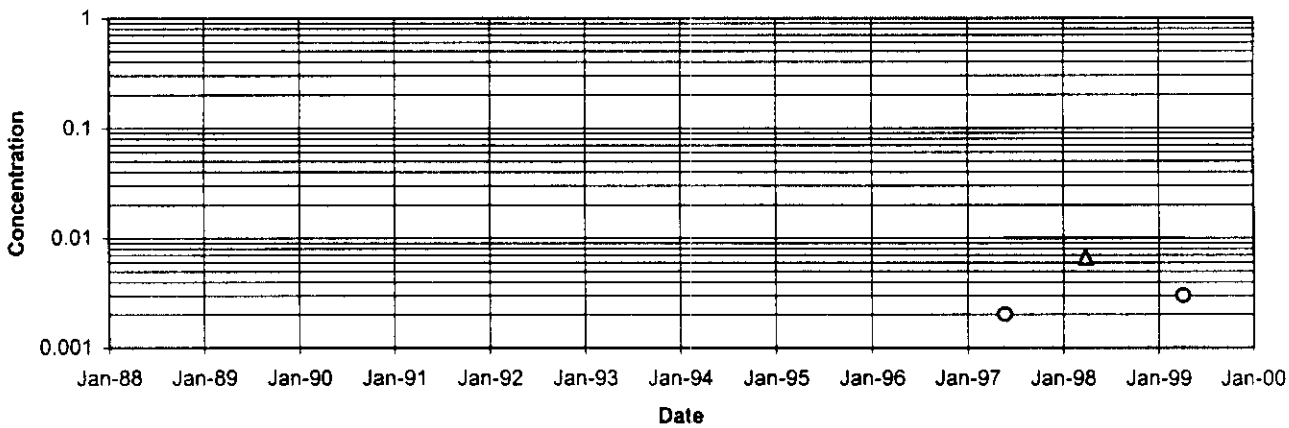
G35D



G35S



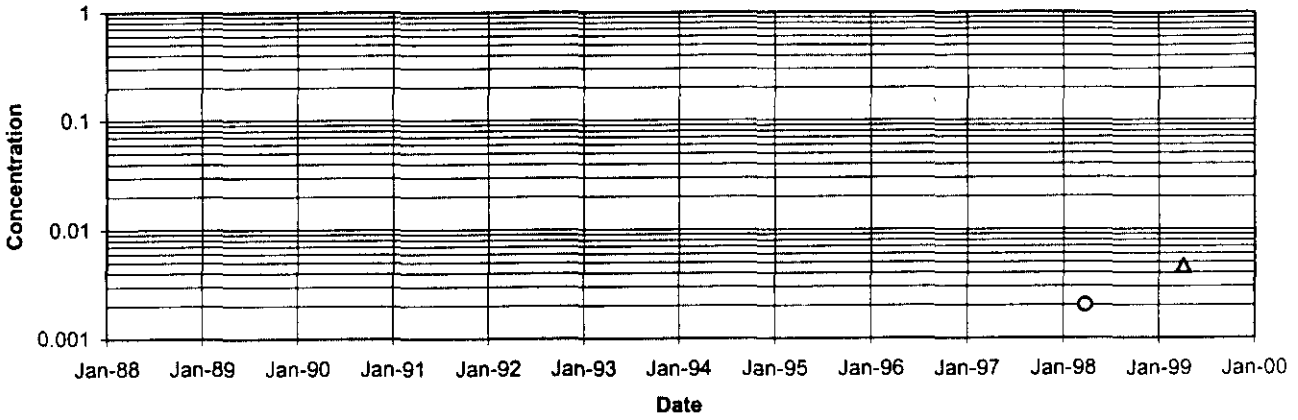
G36



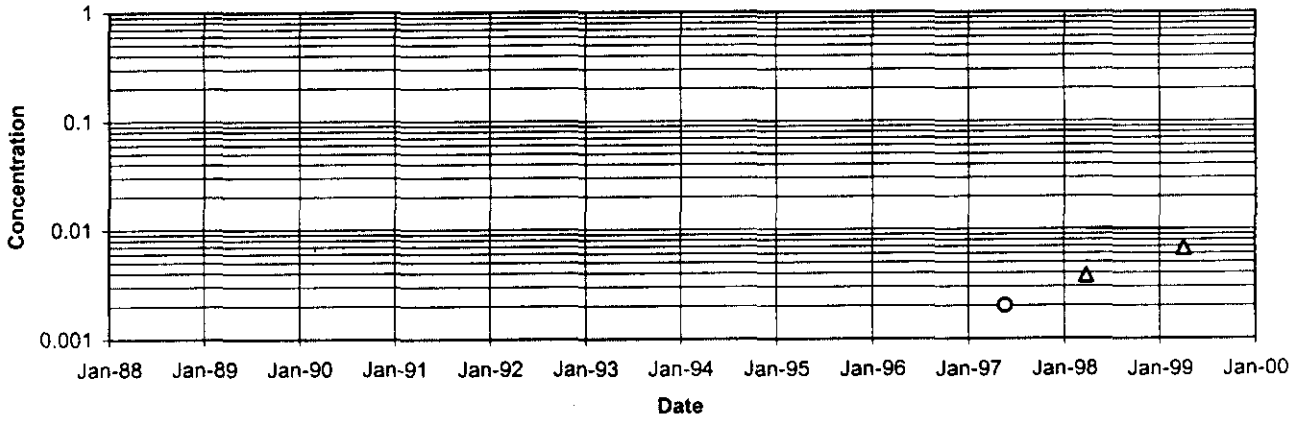
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

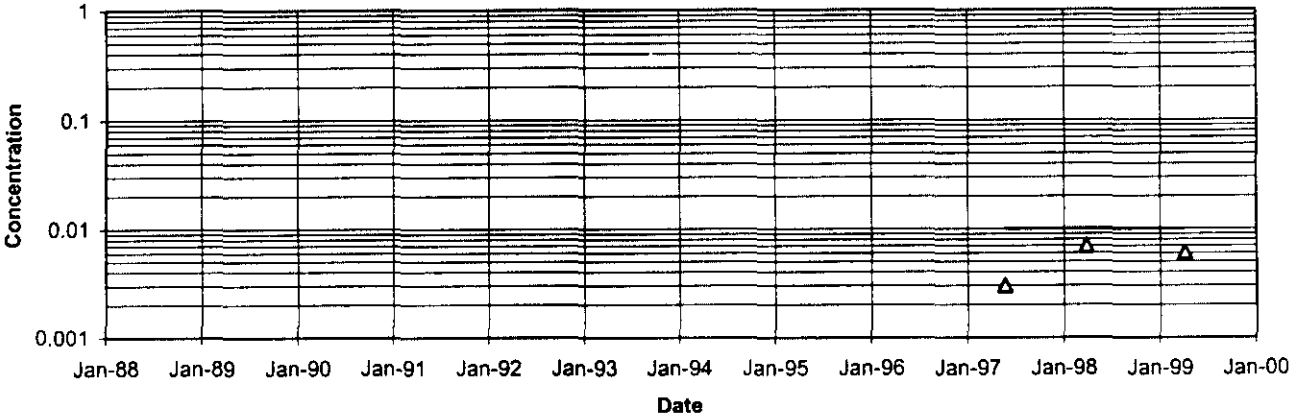
G37D



G37S



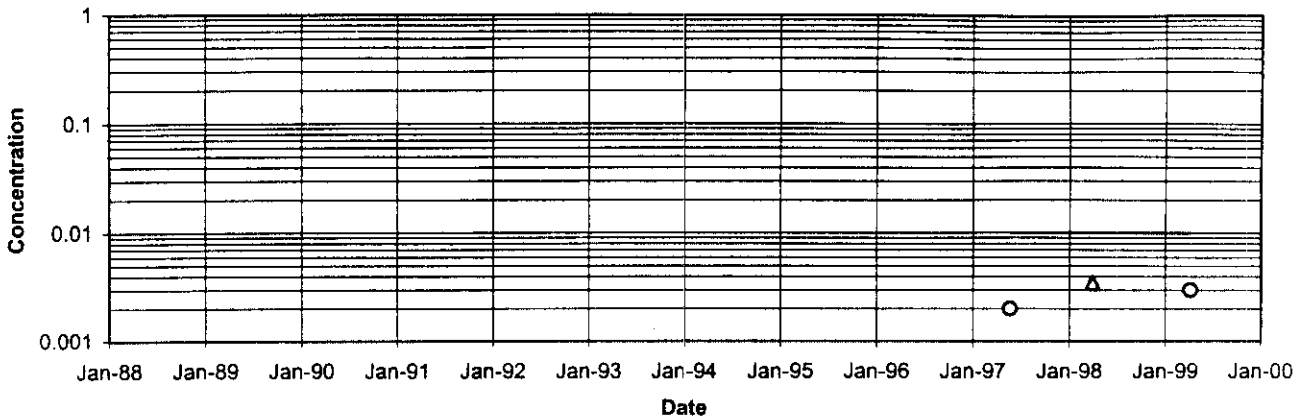
G38



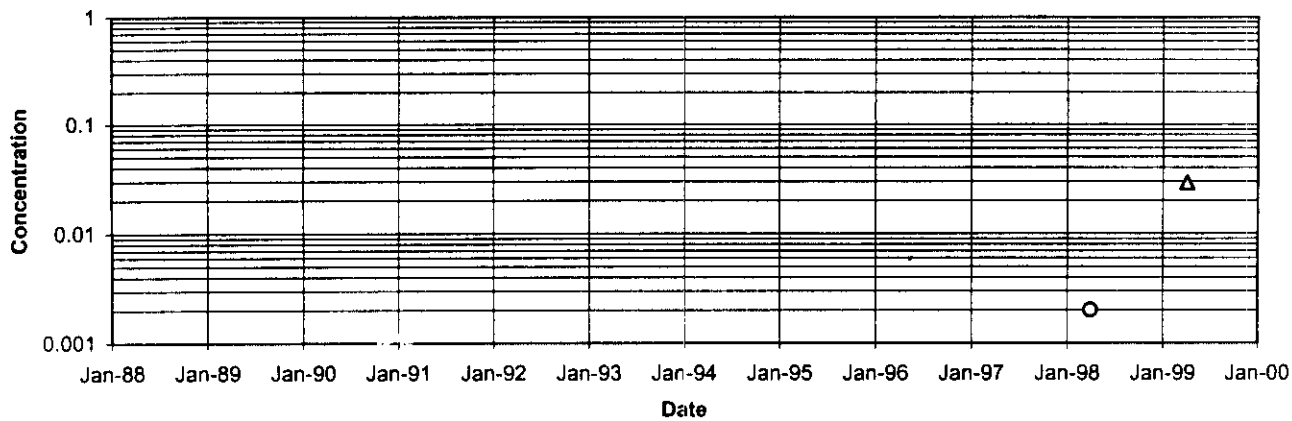
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

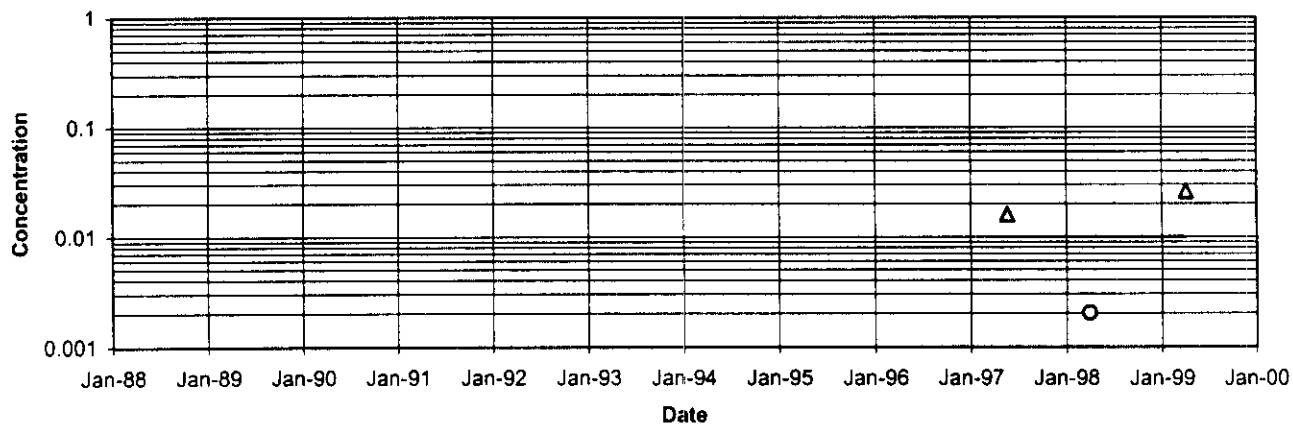
G39



G40



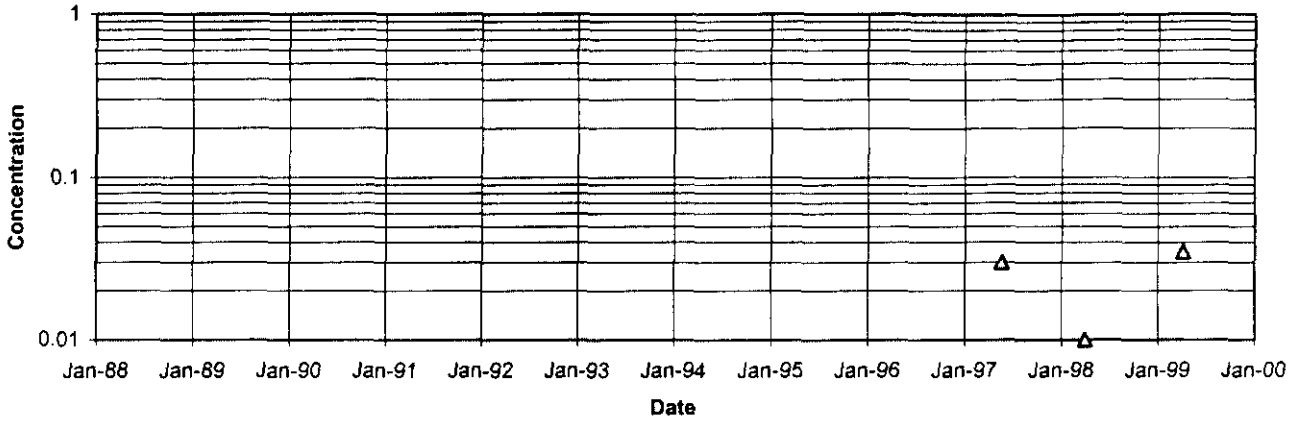
MW106



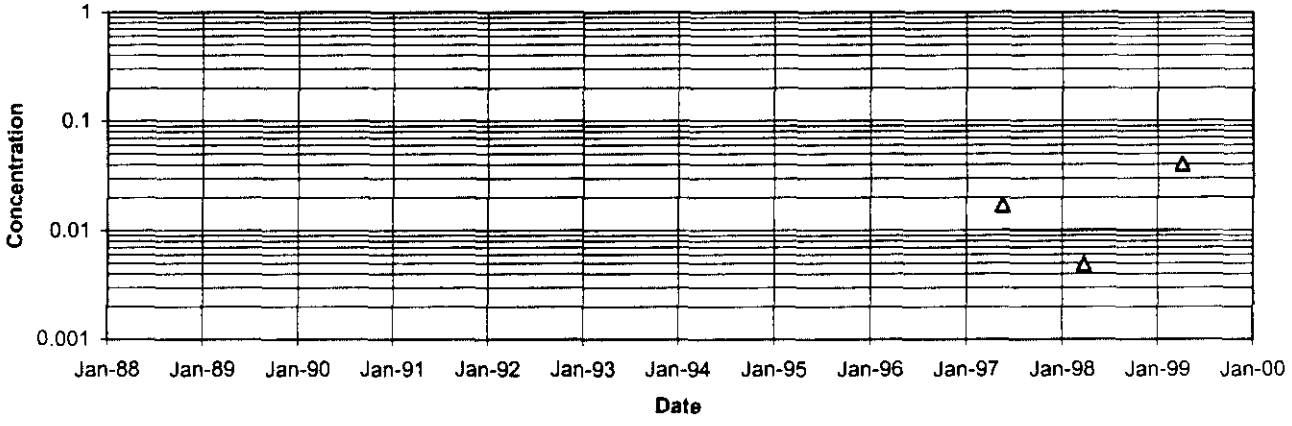
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

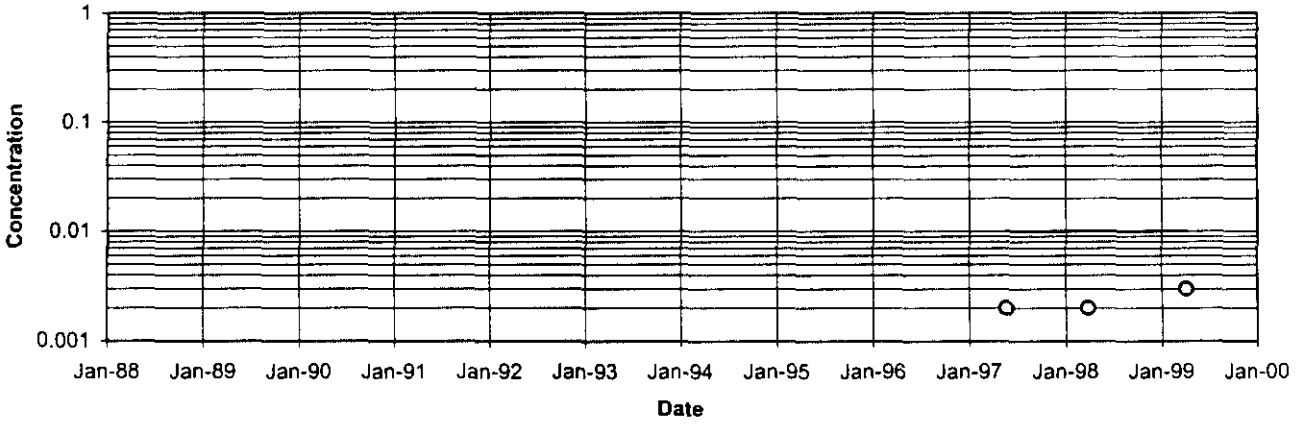
P1



P3R



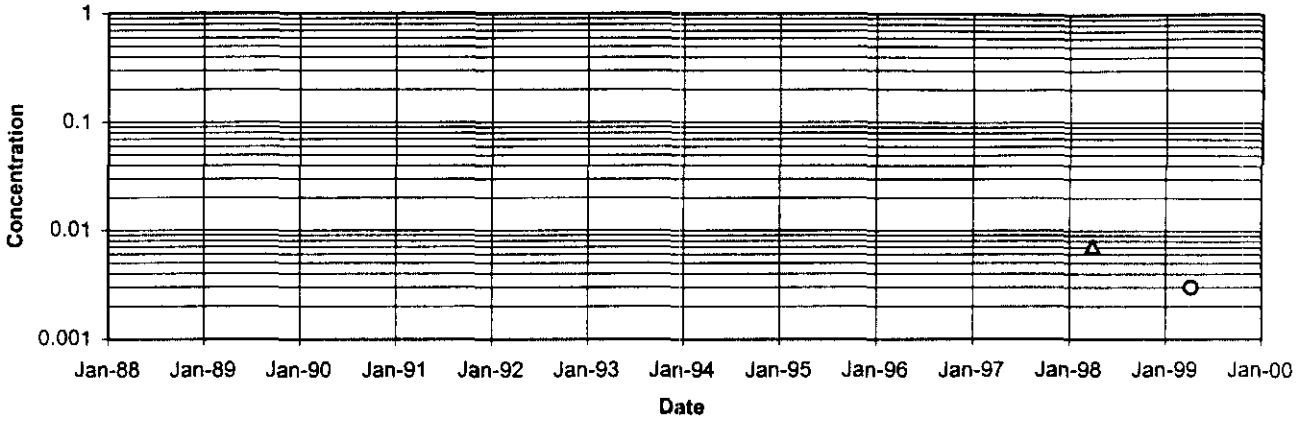
P4R



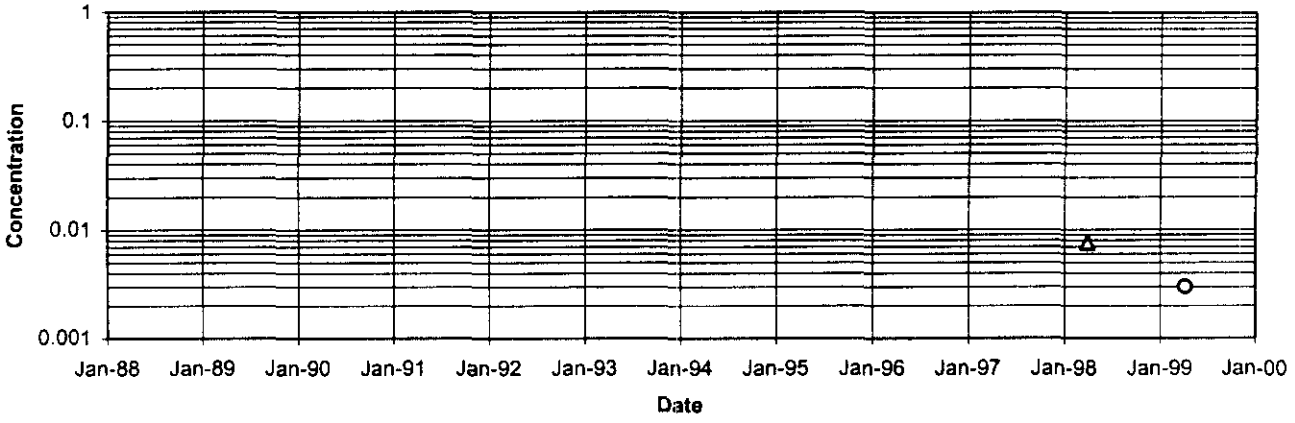
Arsenic (mg/L)

AGQS Δ Concentration O NonDetect

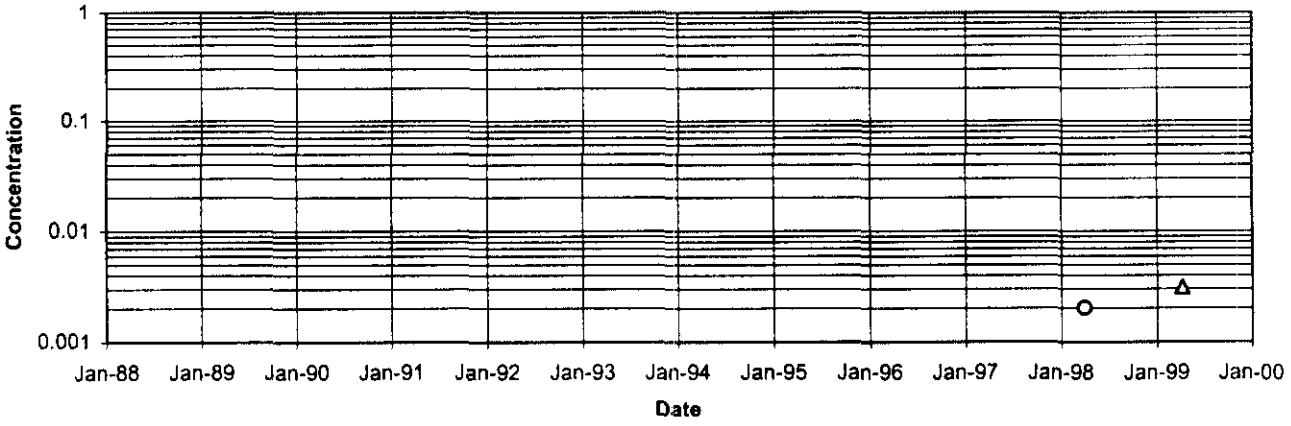
SG1



SG3



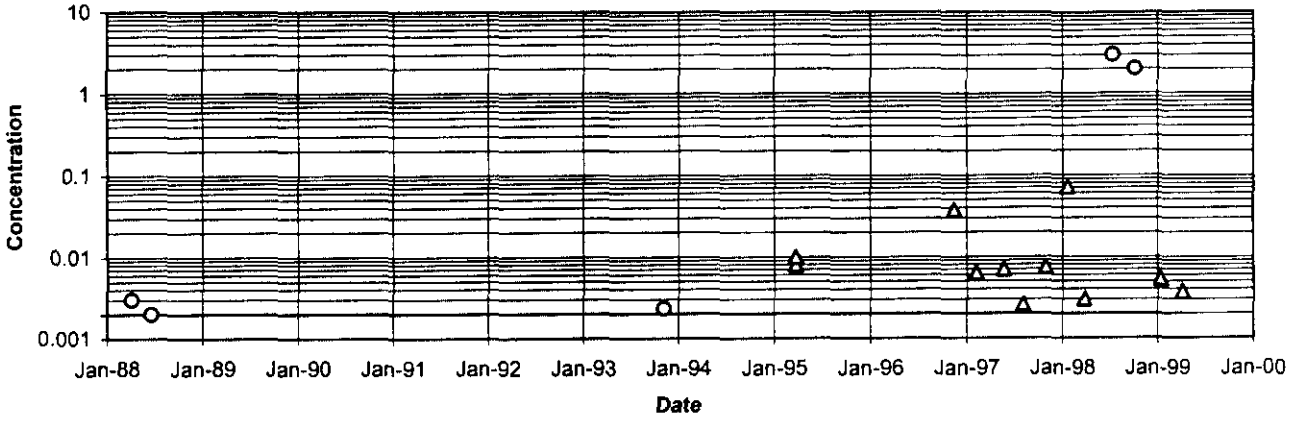
SG4



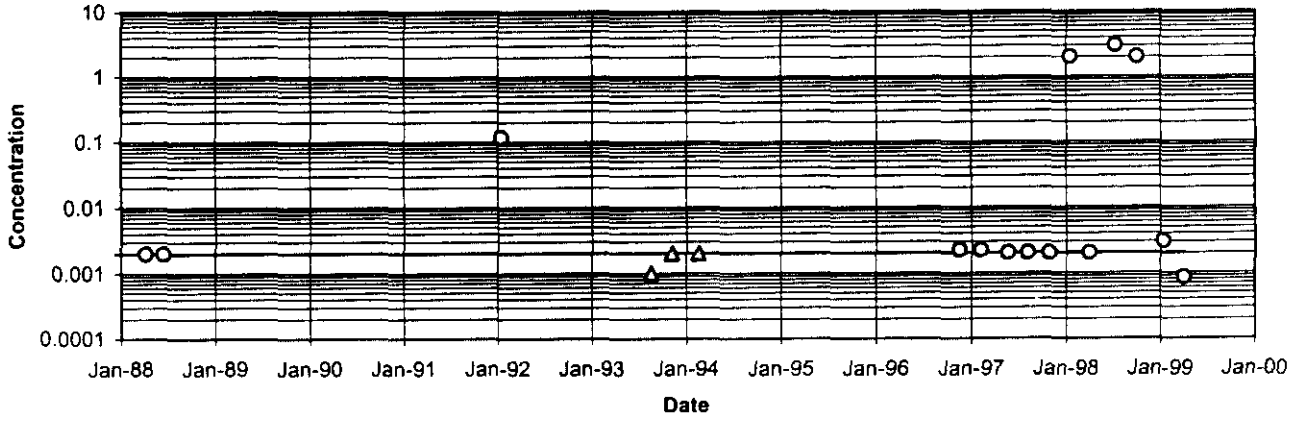
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

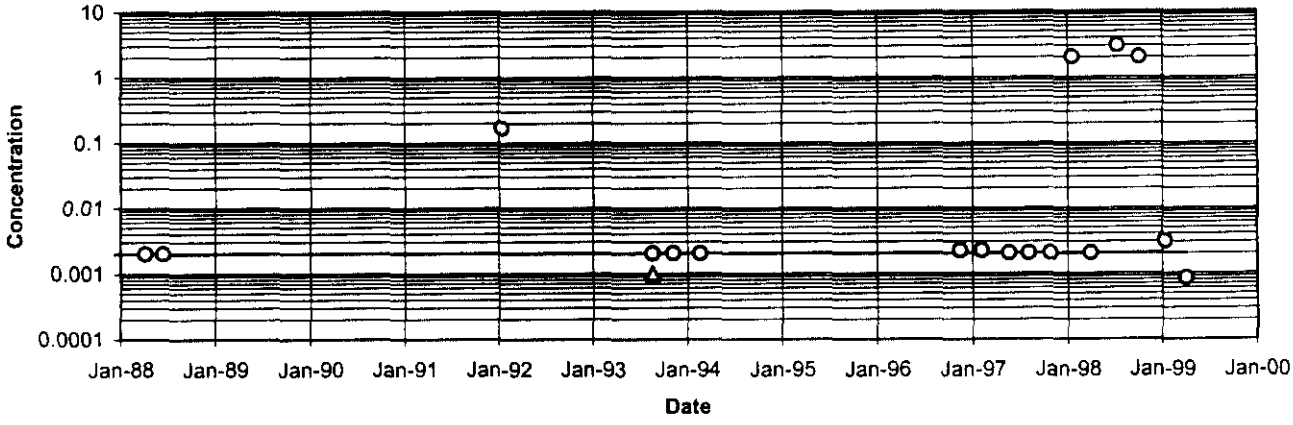
B15R



G109



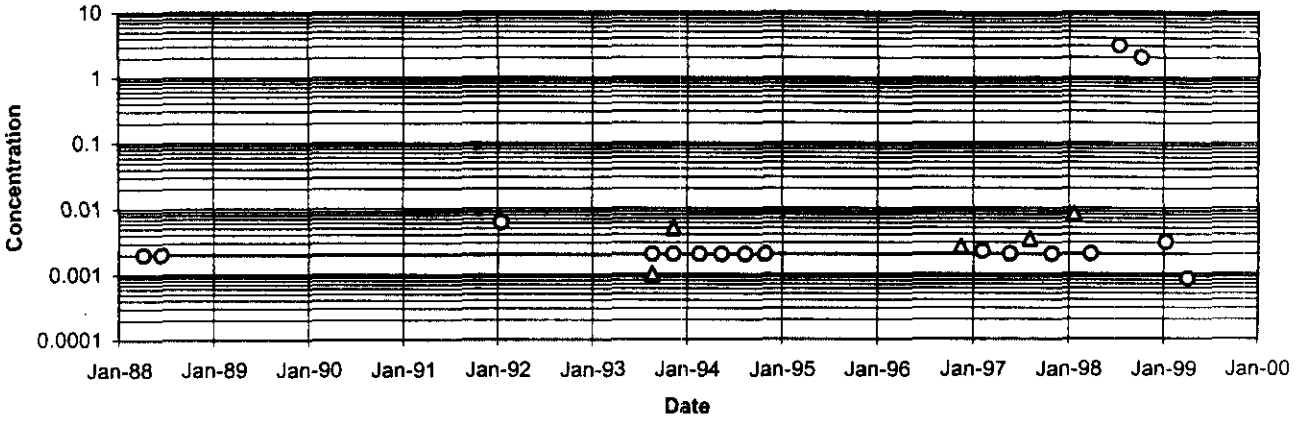
G109A



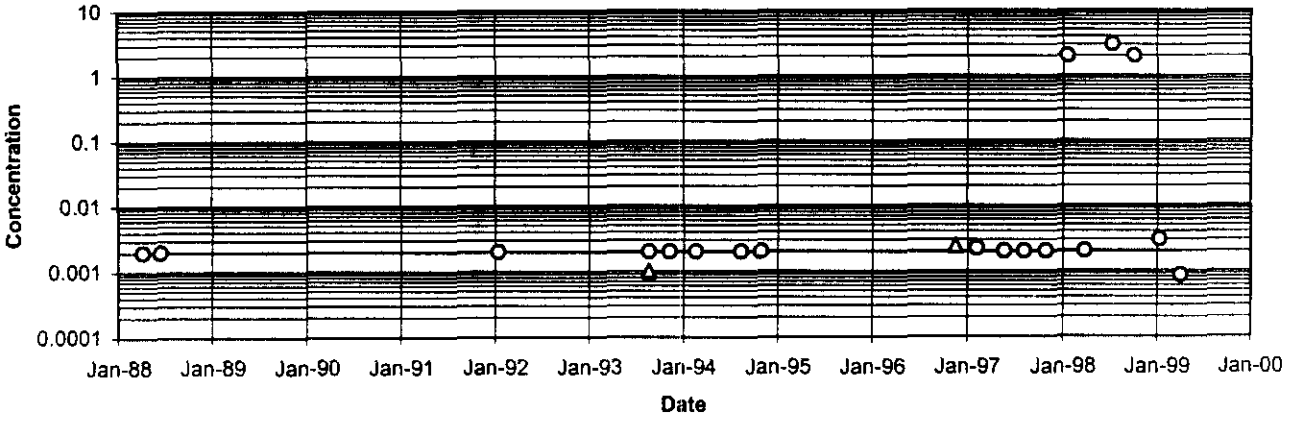
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

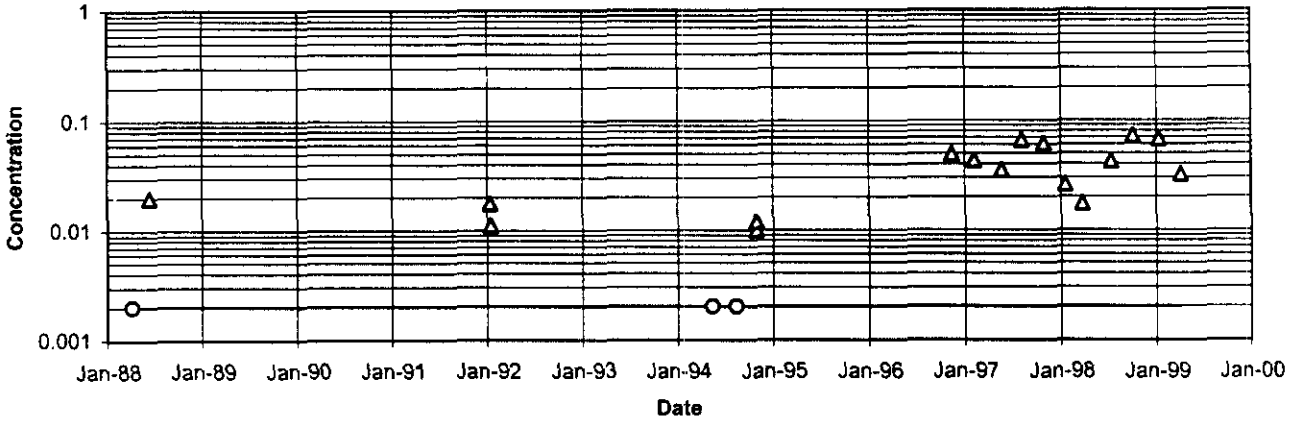
G113



G113A



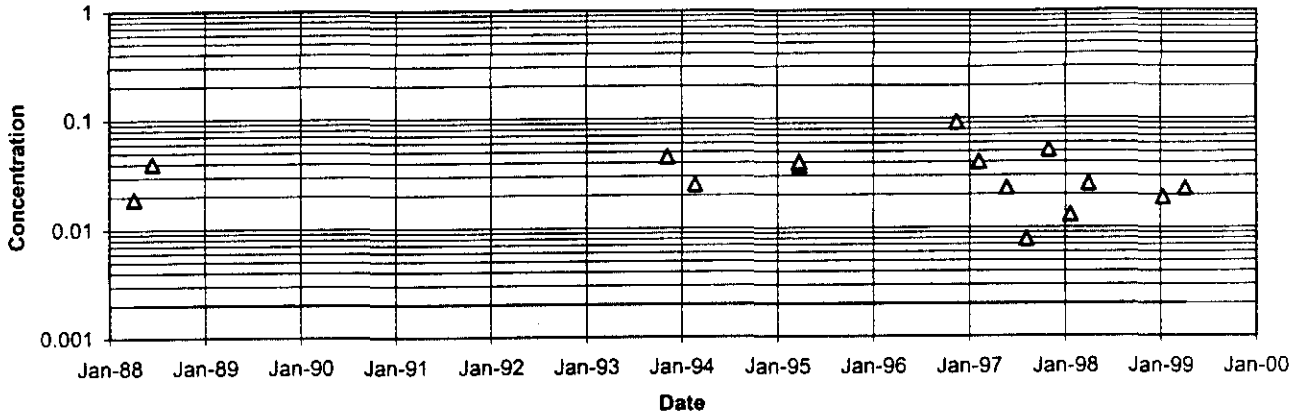
G114



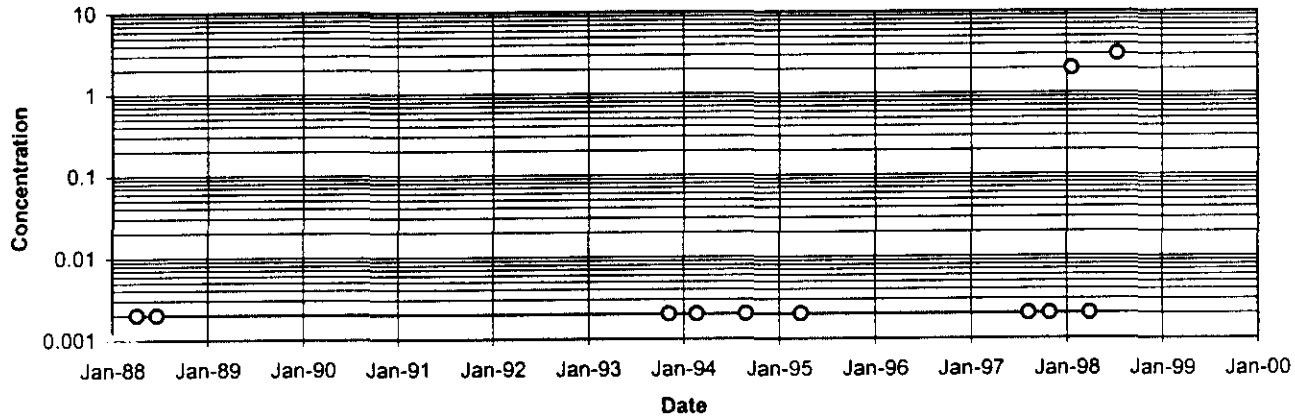
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

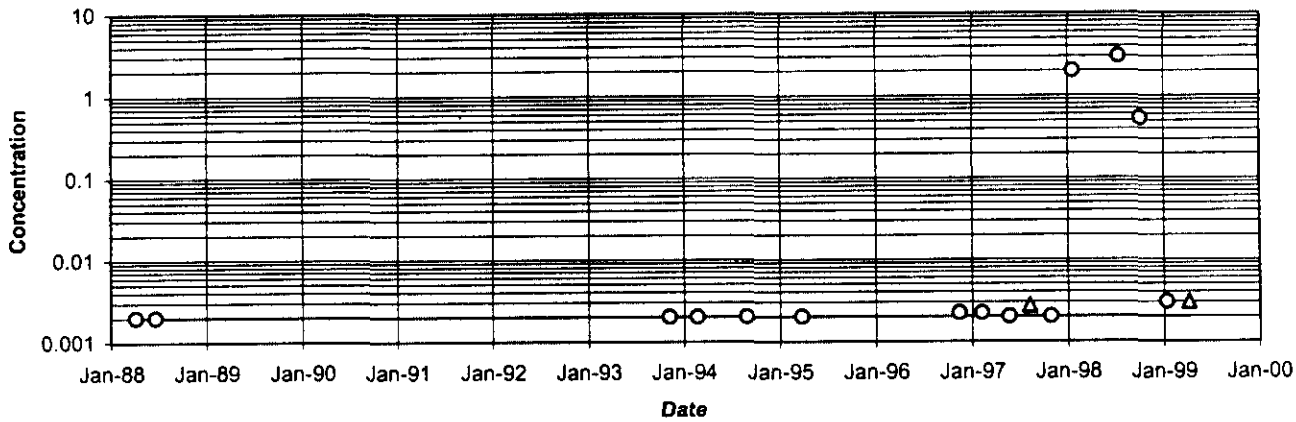
G115



G116



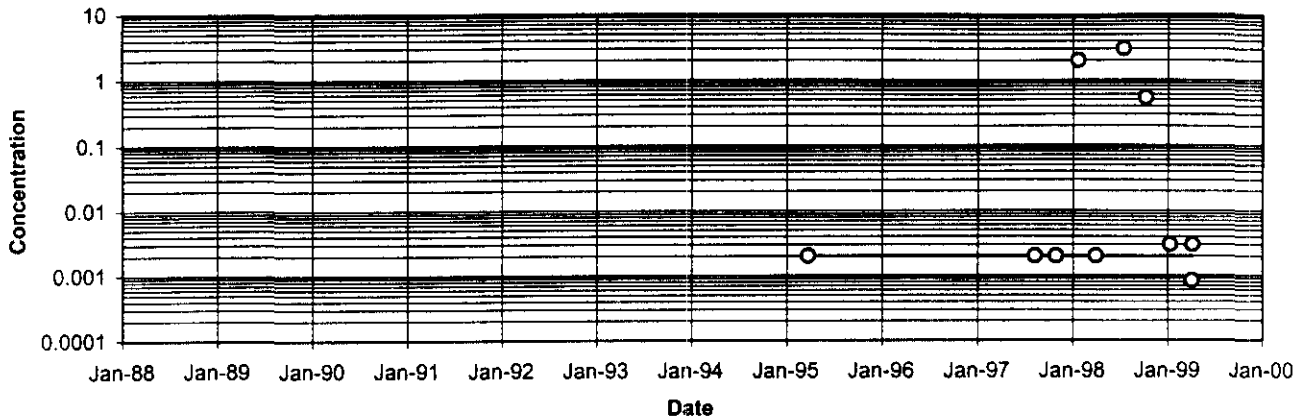
G116A



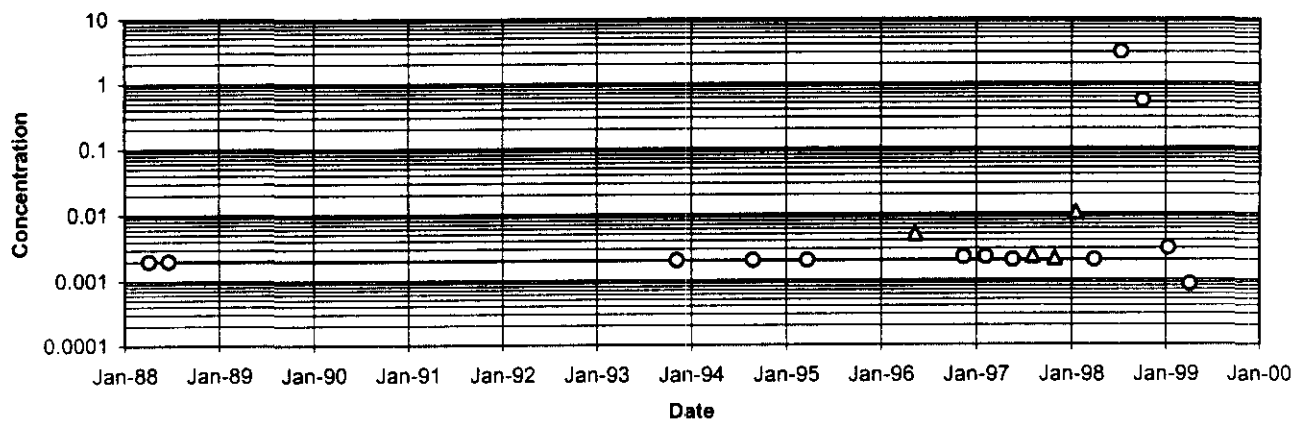
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

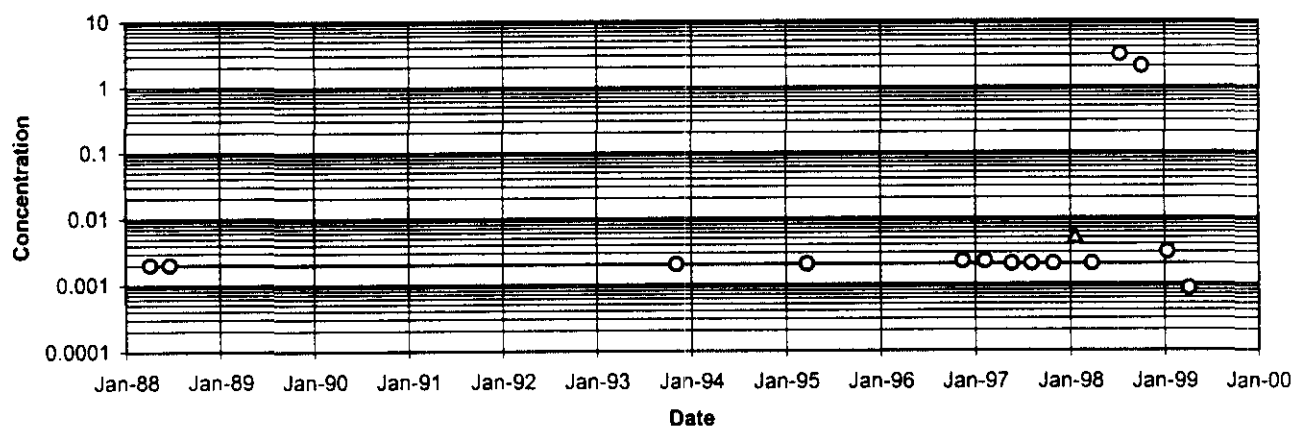
G116D



G117



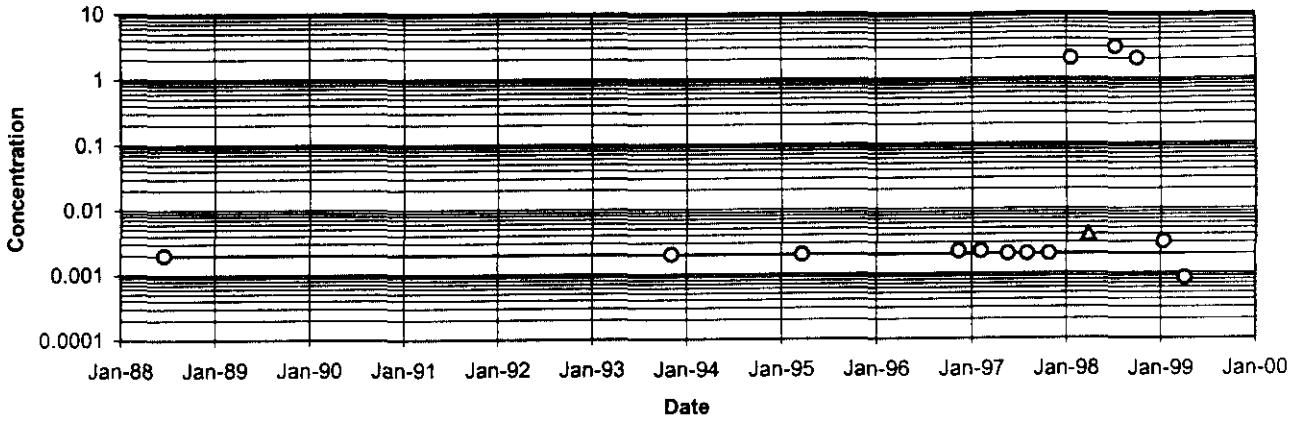
G118A



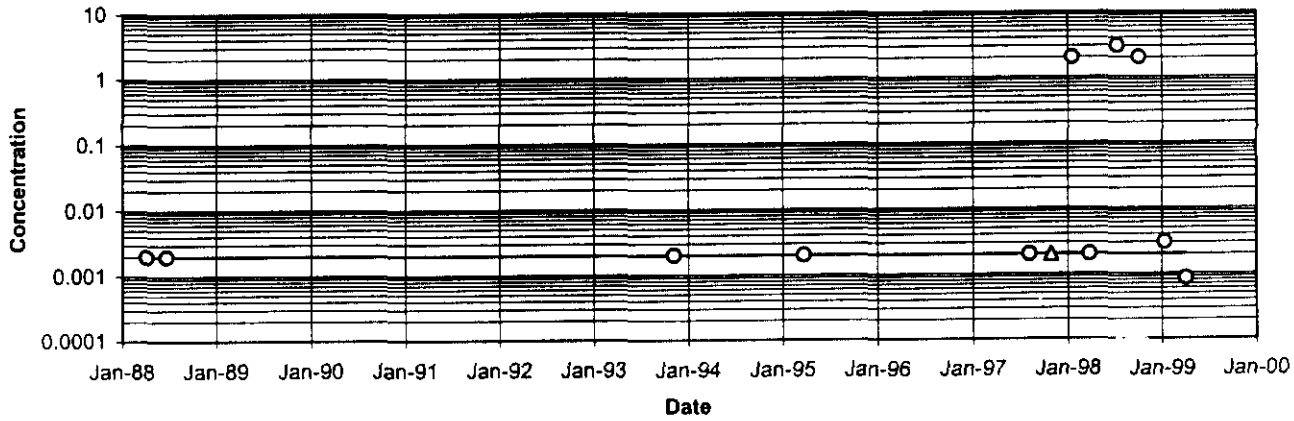
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

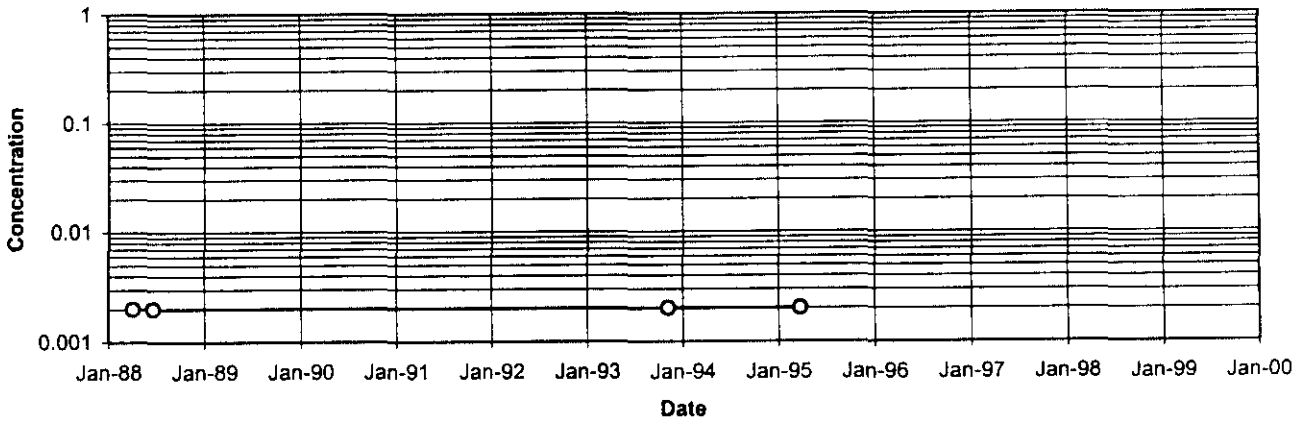
G118R



G119



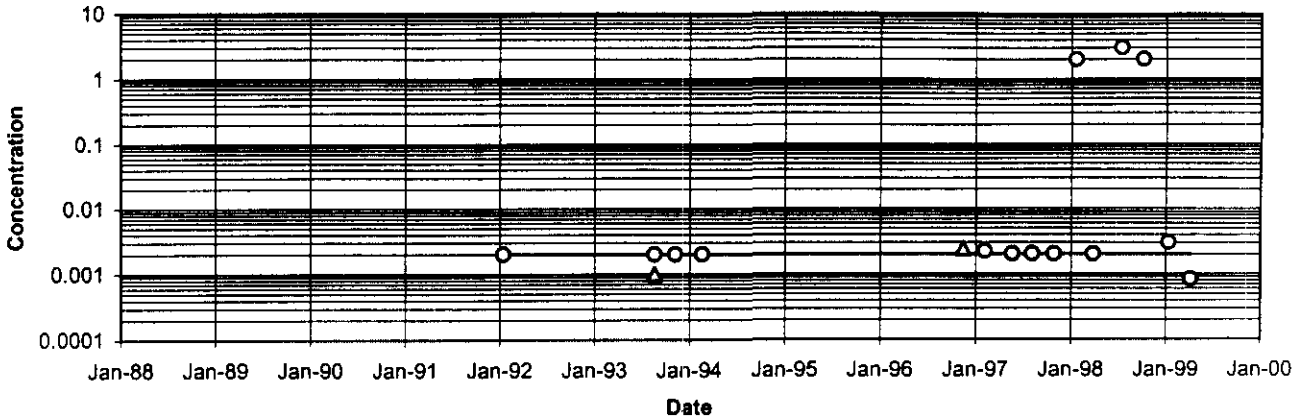
G119A



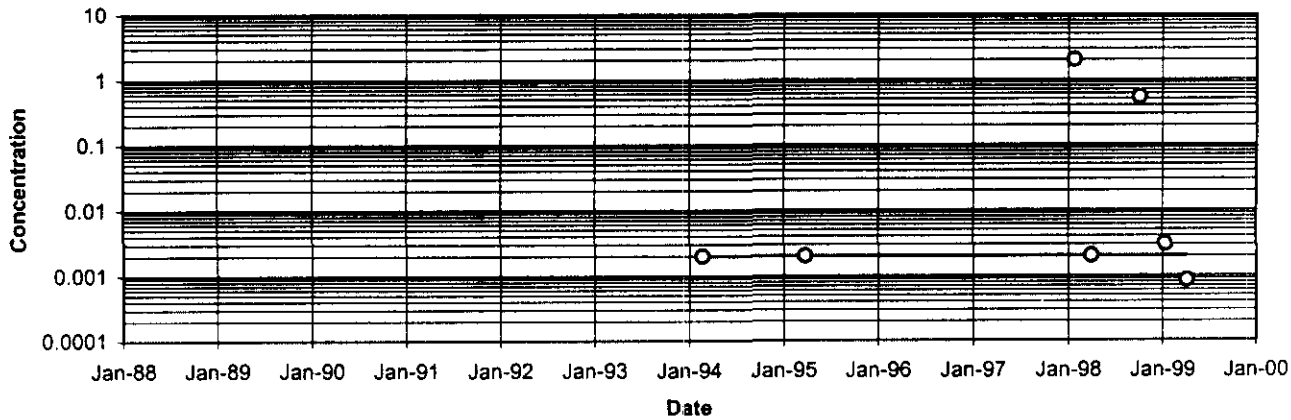
Arsenic (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

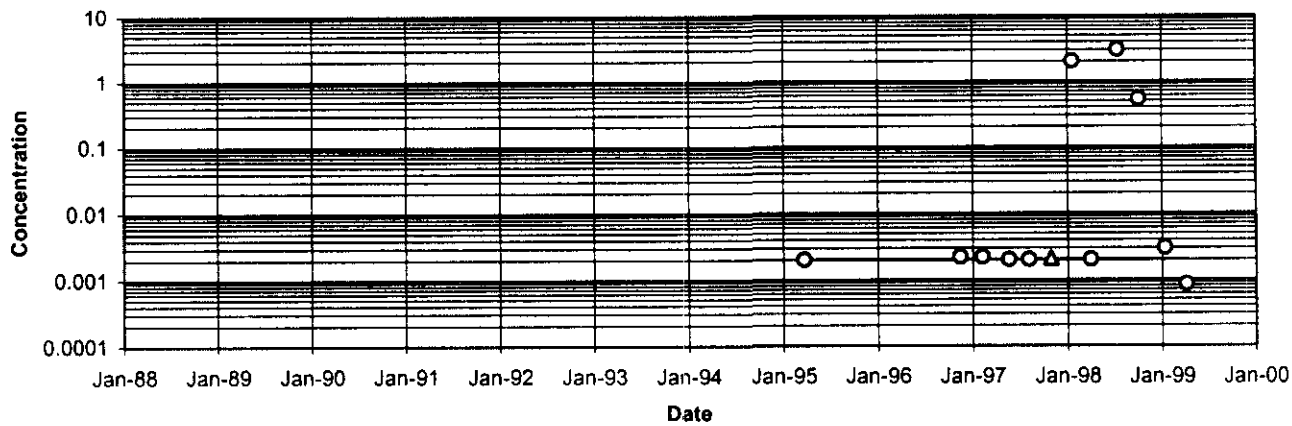
G120B



G130



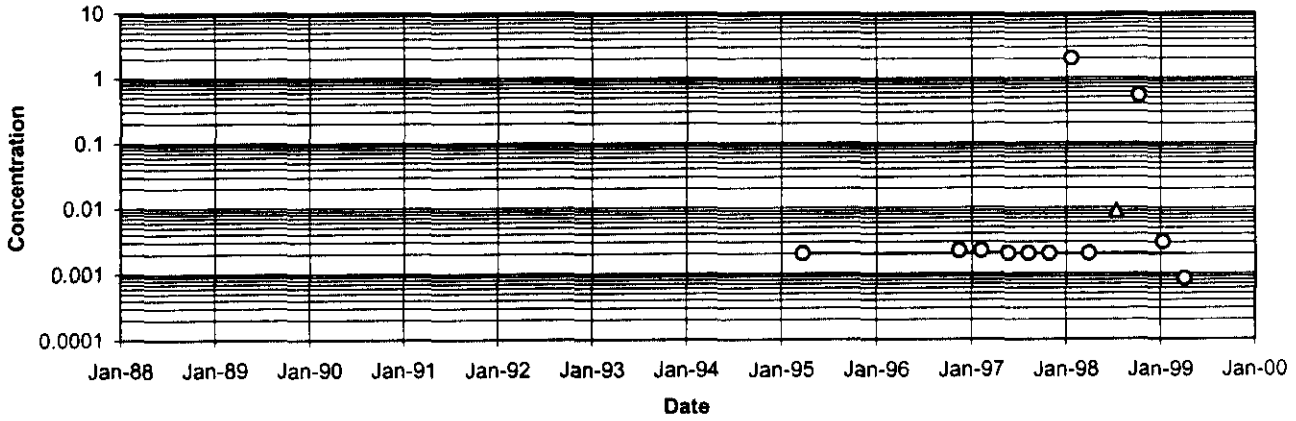
G132



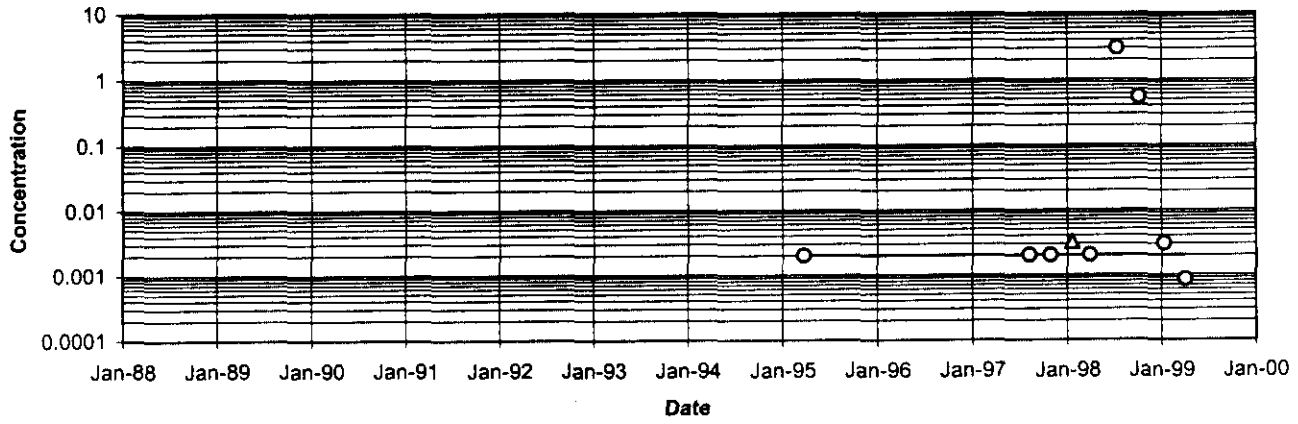
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

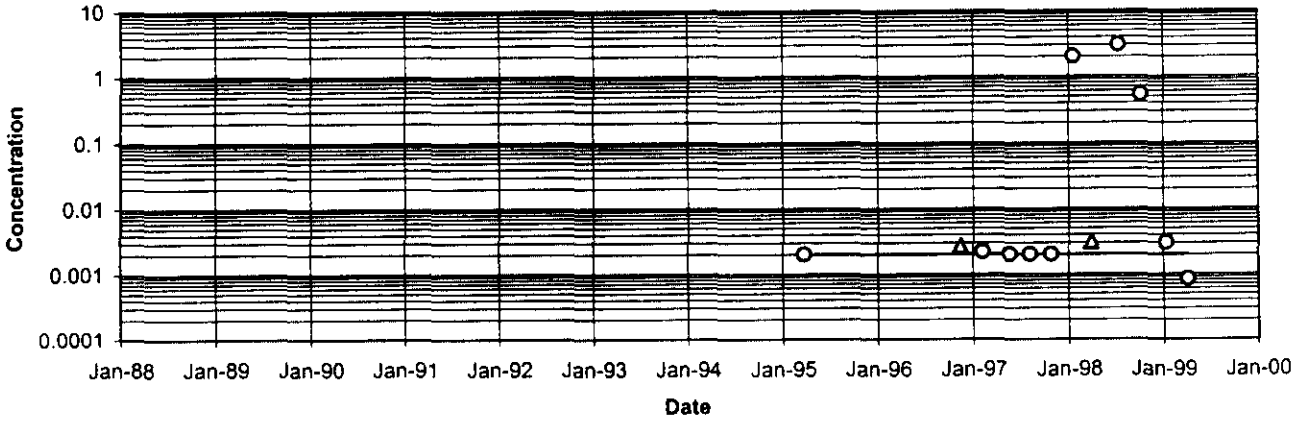
G33D



G33S



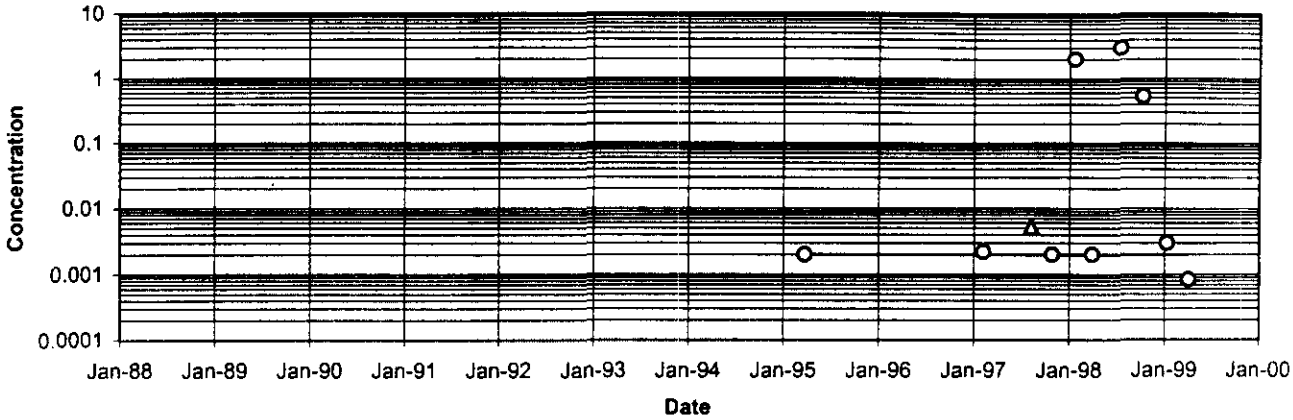
G34D



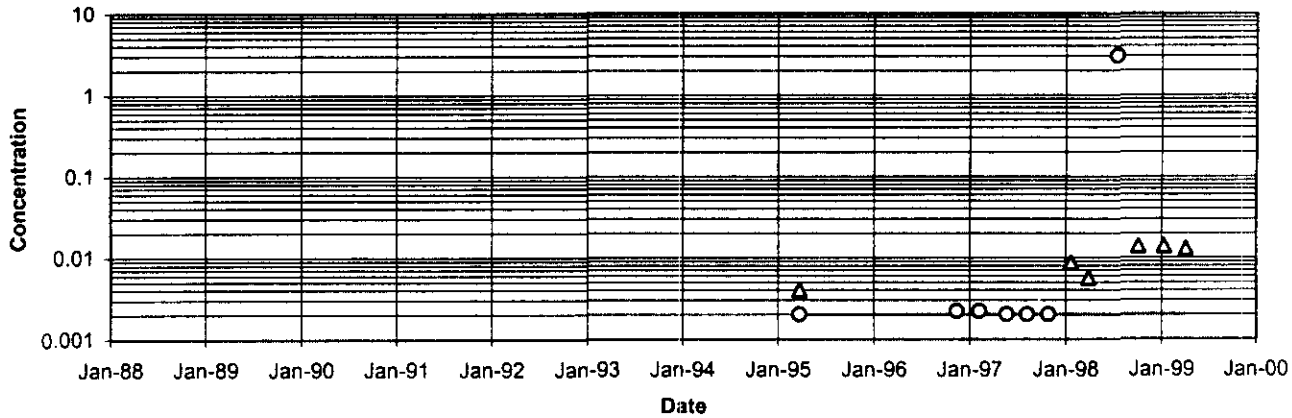
Arsenic (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

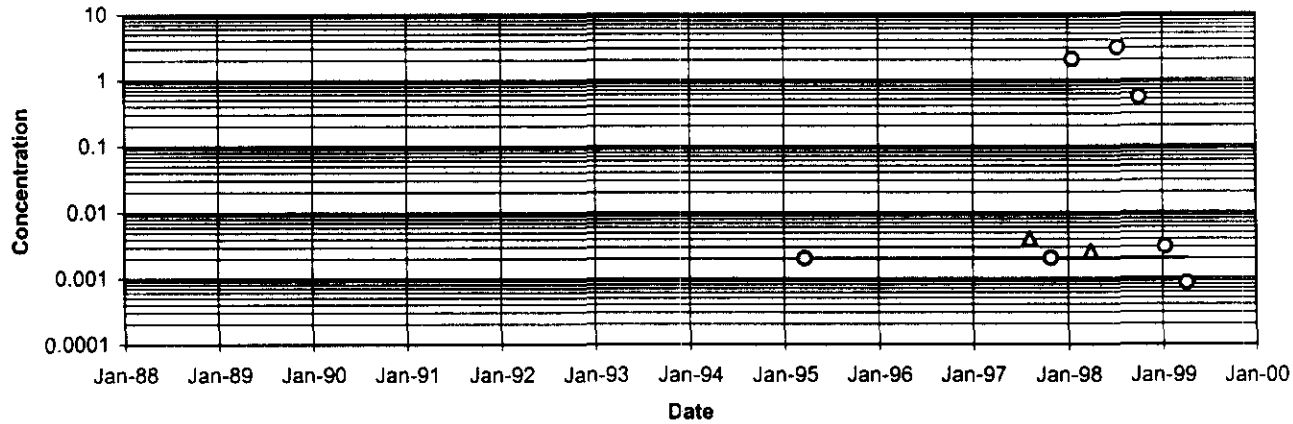
G34S



G35D



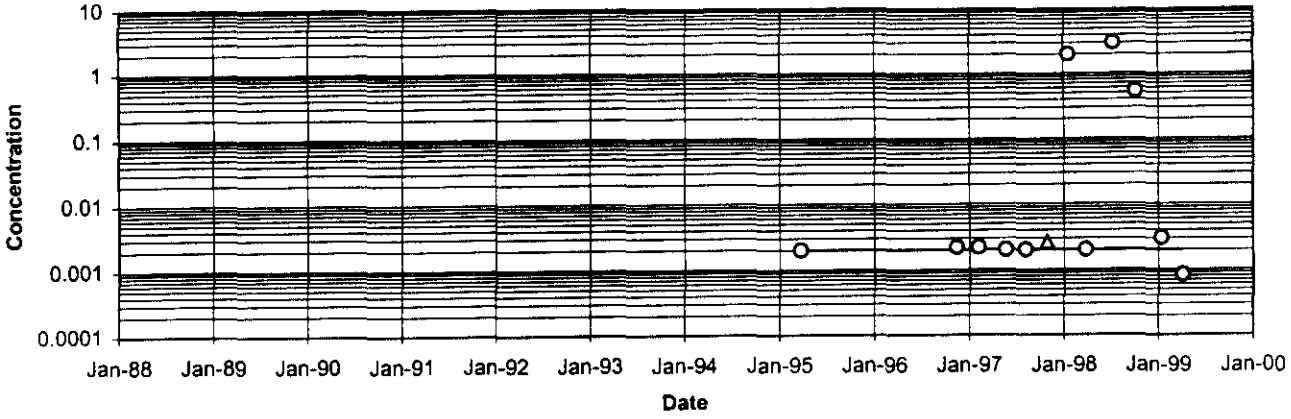
G35S



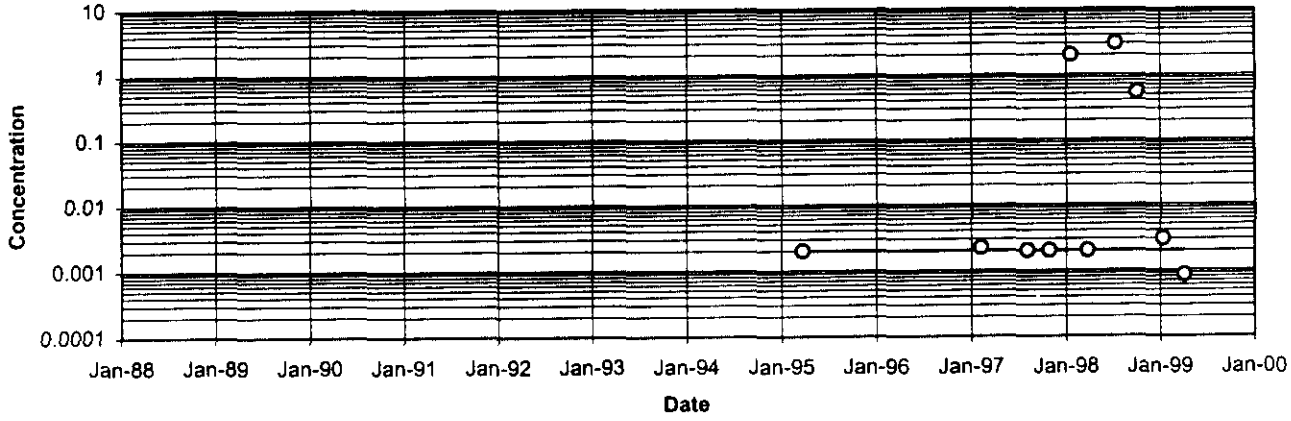
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

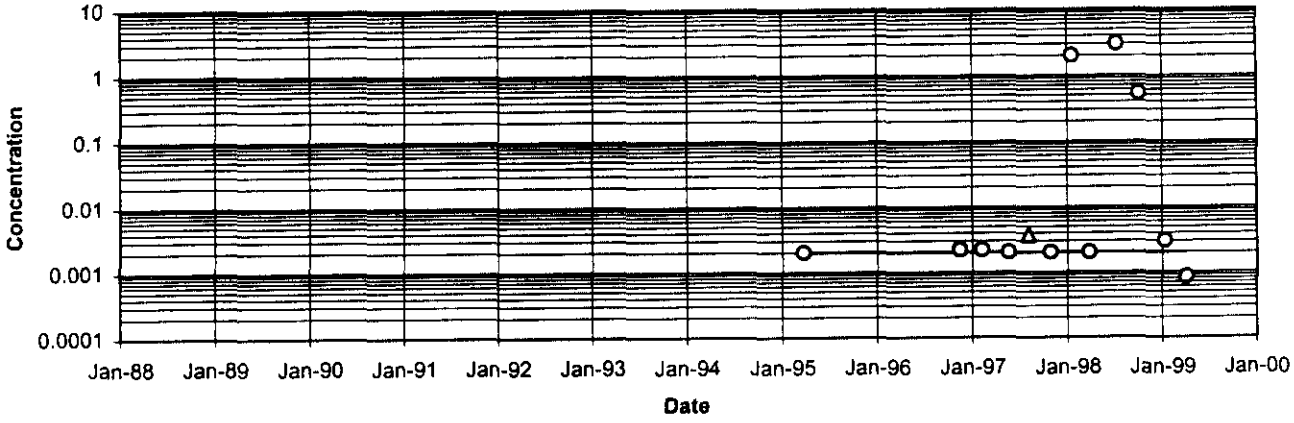
G36



G37D



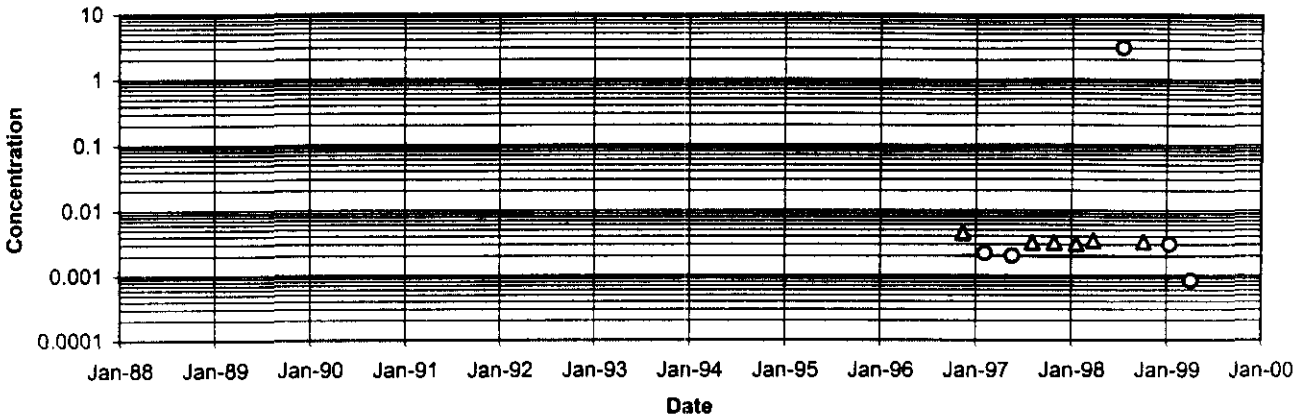
G37S



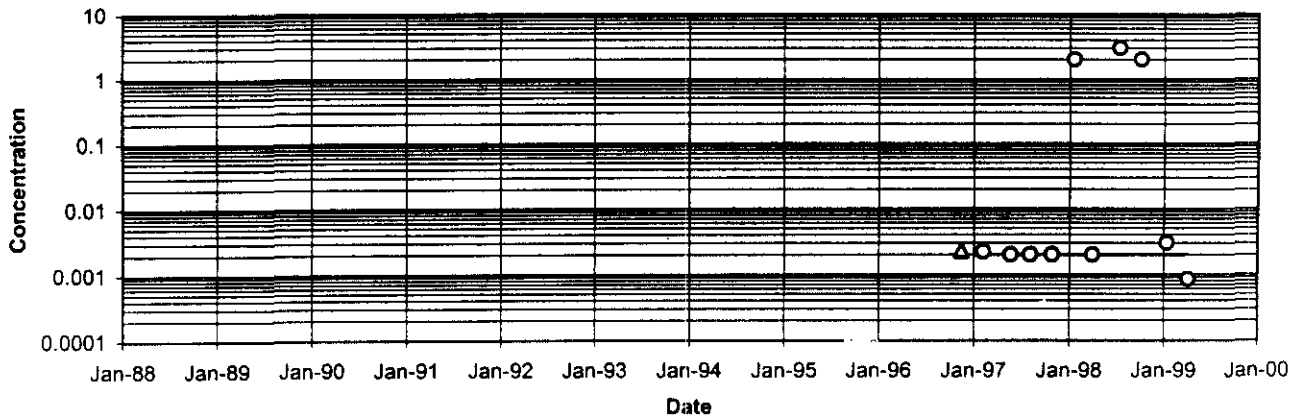
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

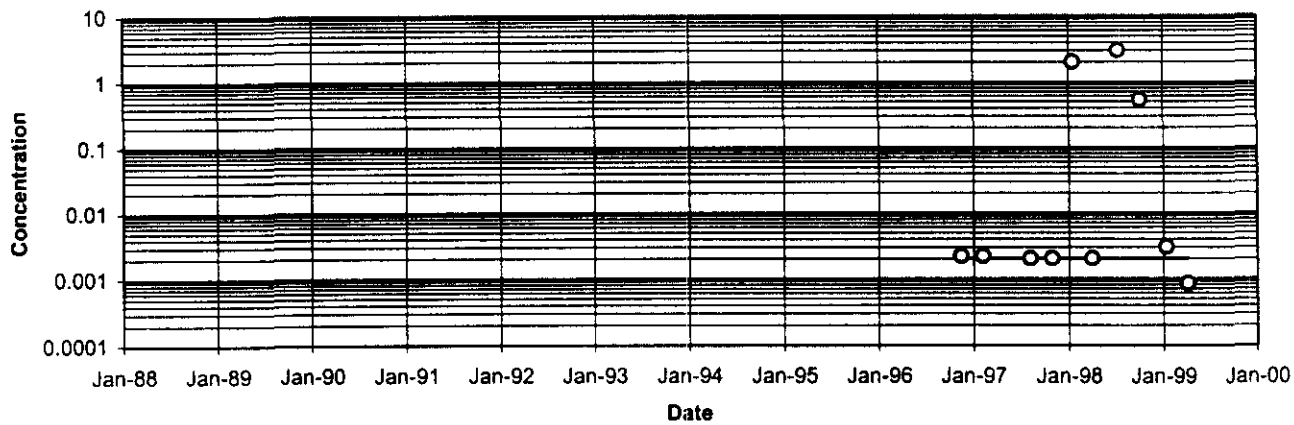
G38



G39



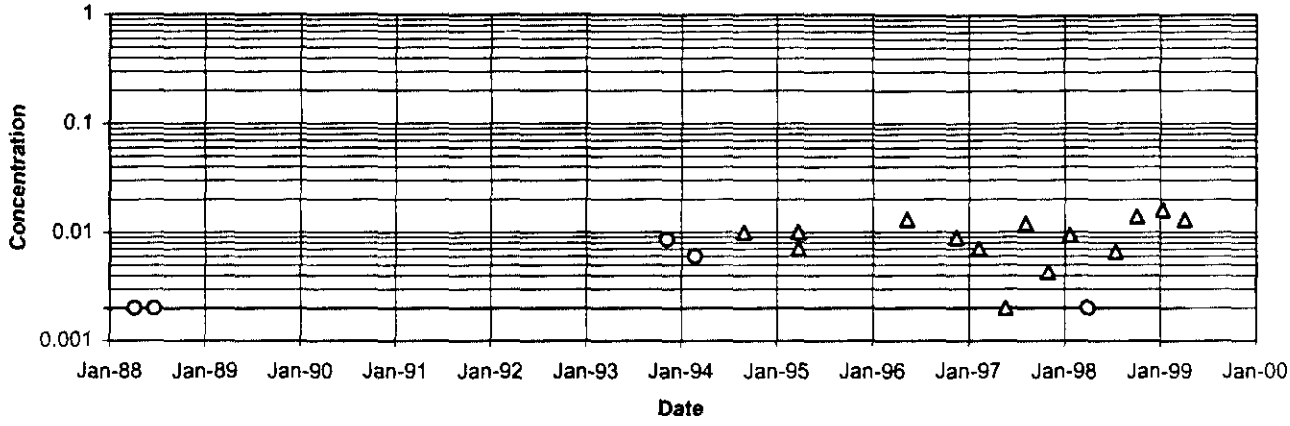
G40



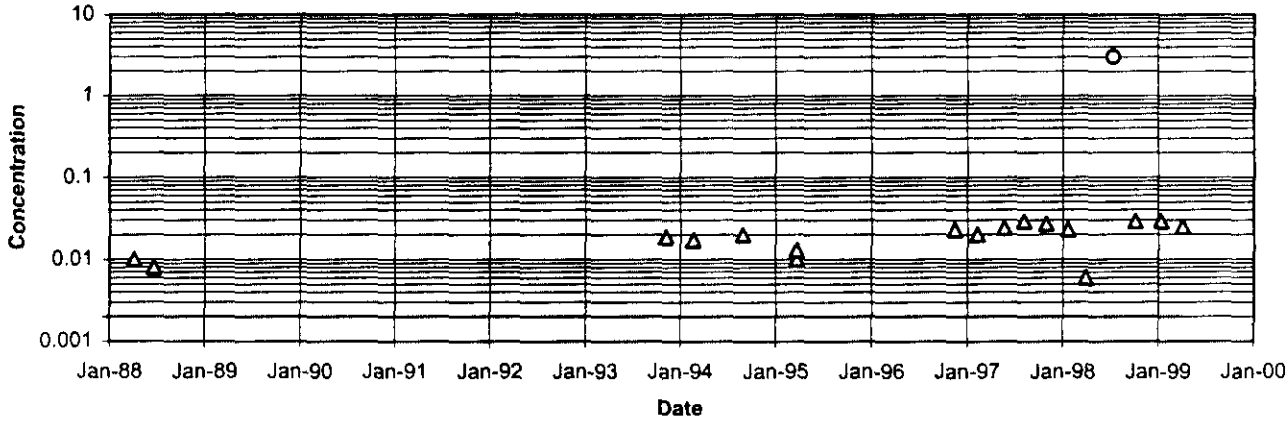
Arsenic (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

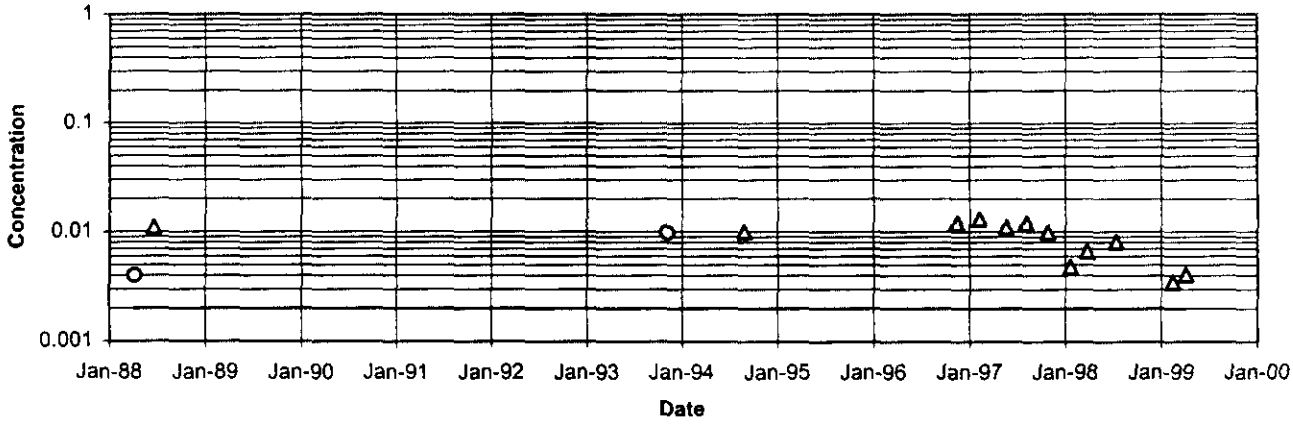
MW106



P1



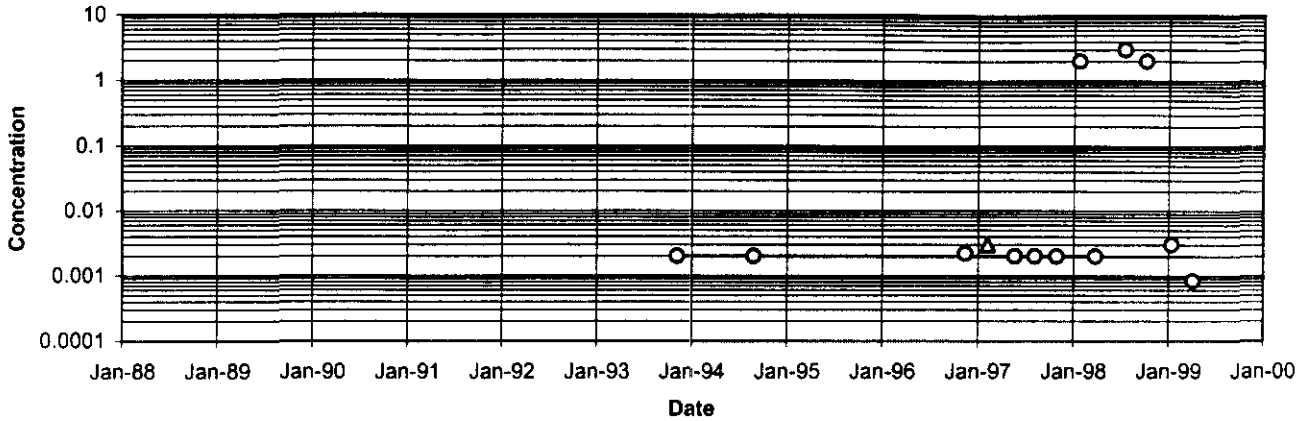
P3R



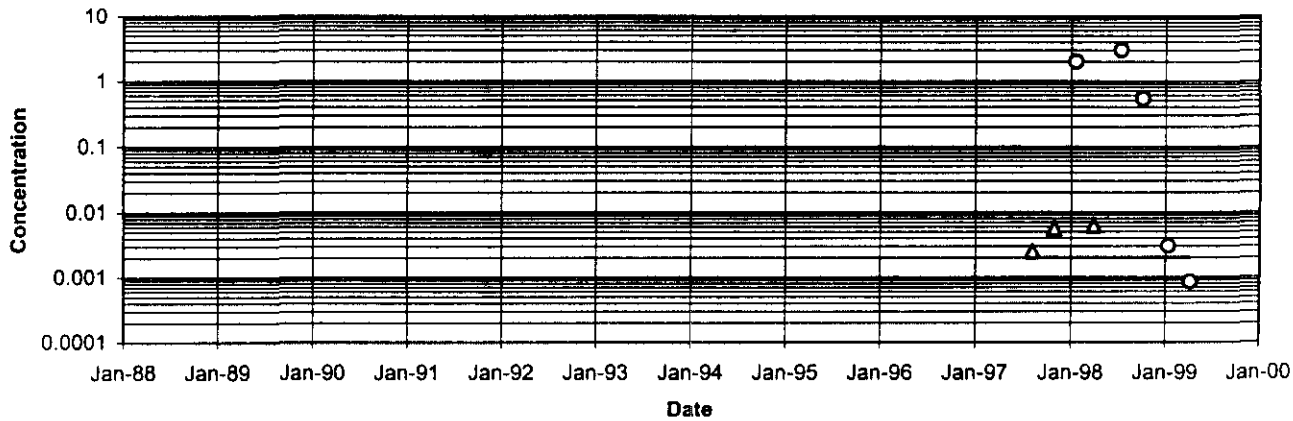
Arsenic (dis) (mg/L)

AGQS Δ Concentration O NonDetect

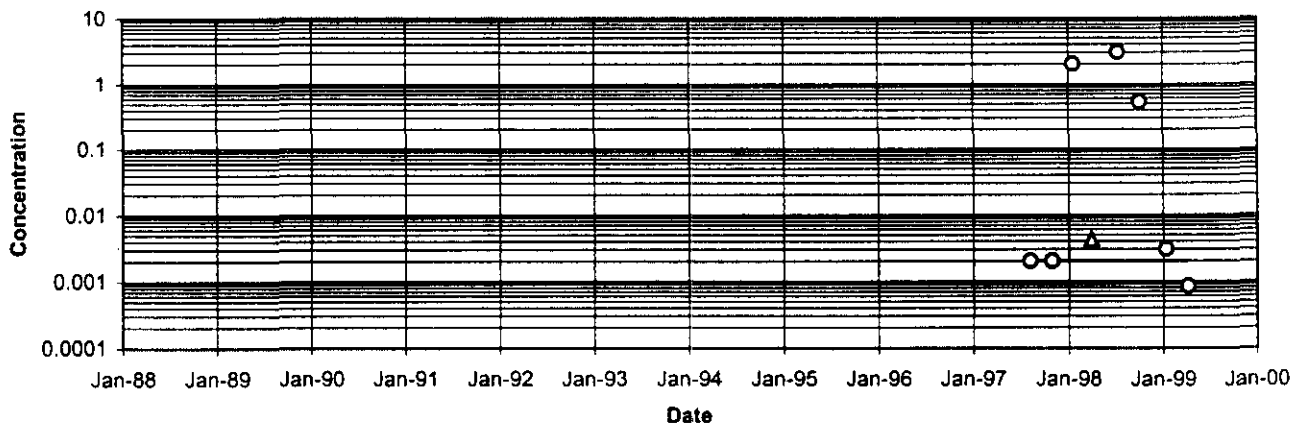
P4R

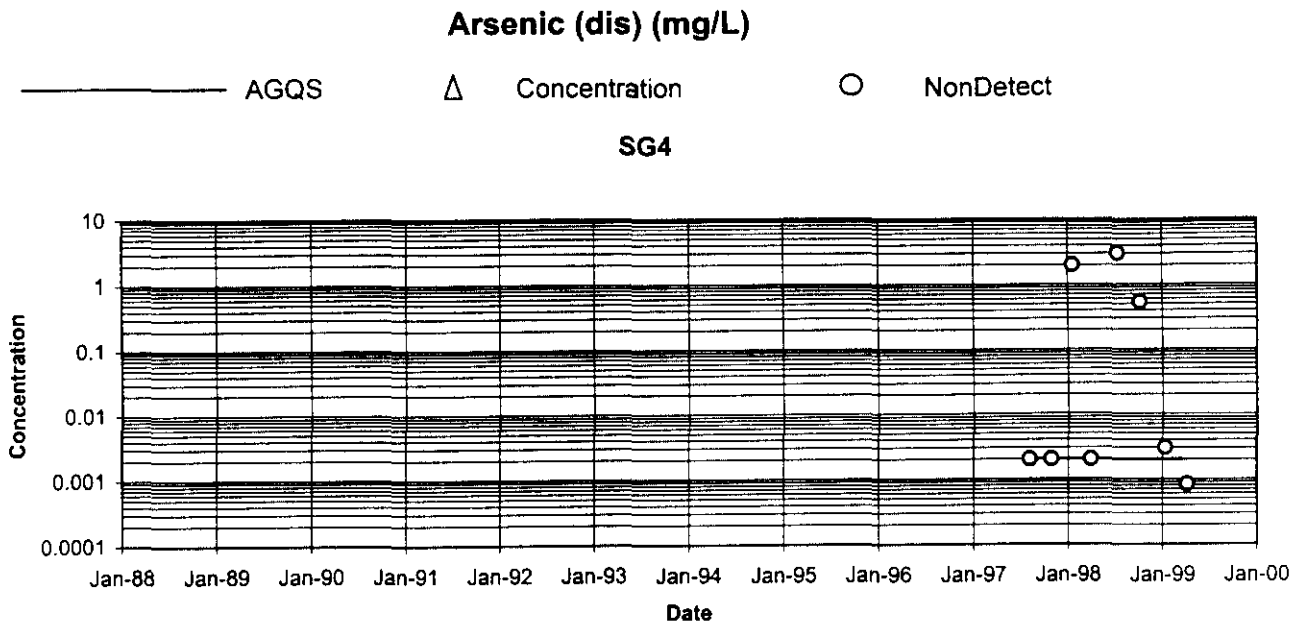


SG1



SG3

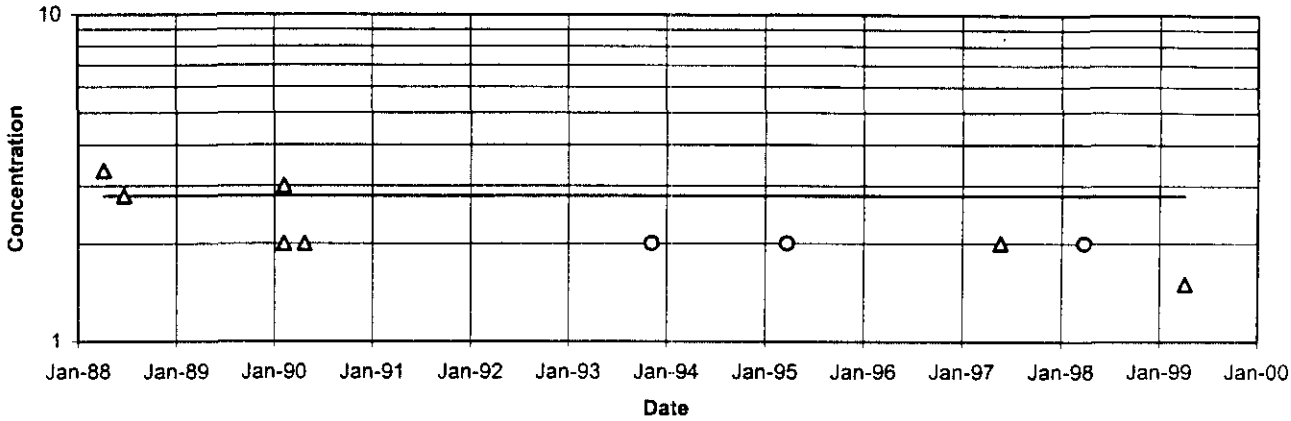



Arsenic (dis) (mg/L)
AGQS
Concentration
NonDetect
SG4
10
1
0.1
0.01
0.001
0.0001
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

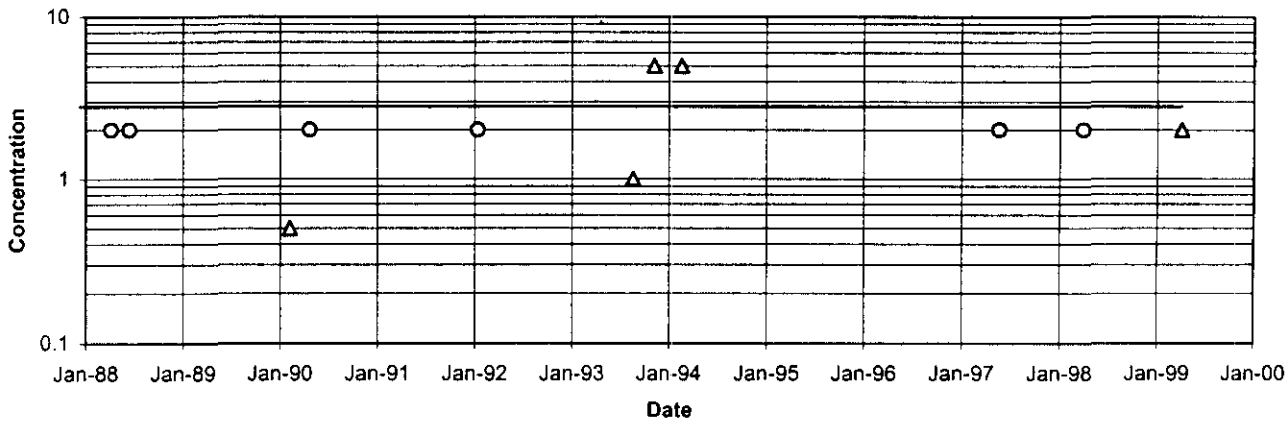
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

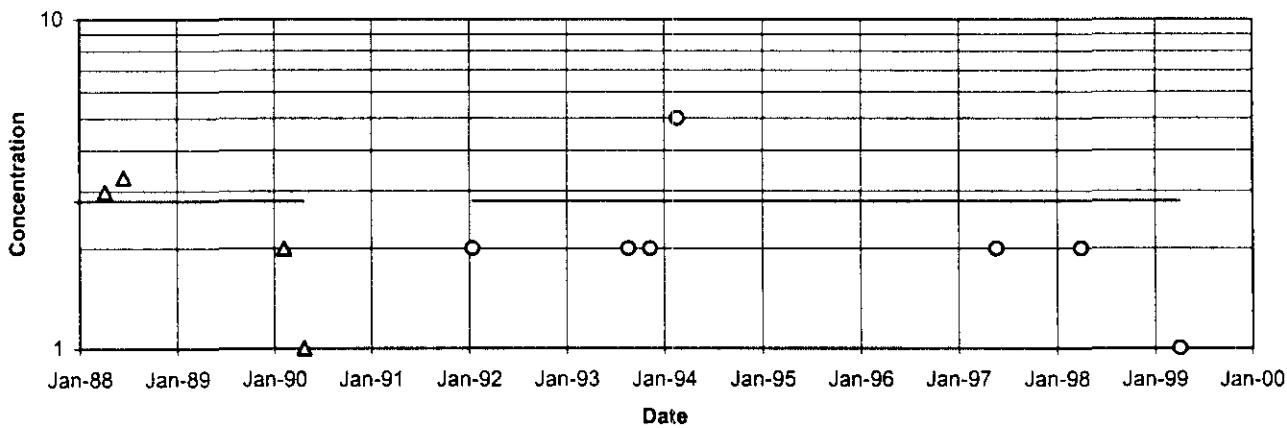
B15R



G109



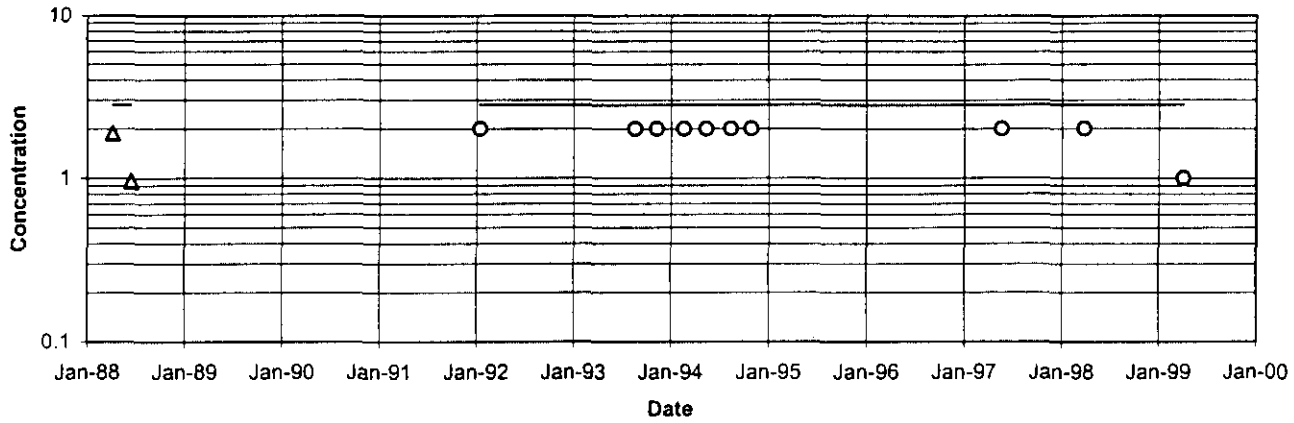
G109A



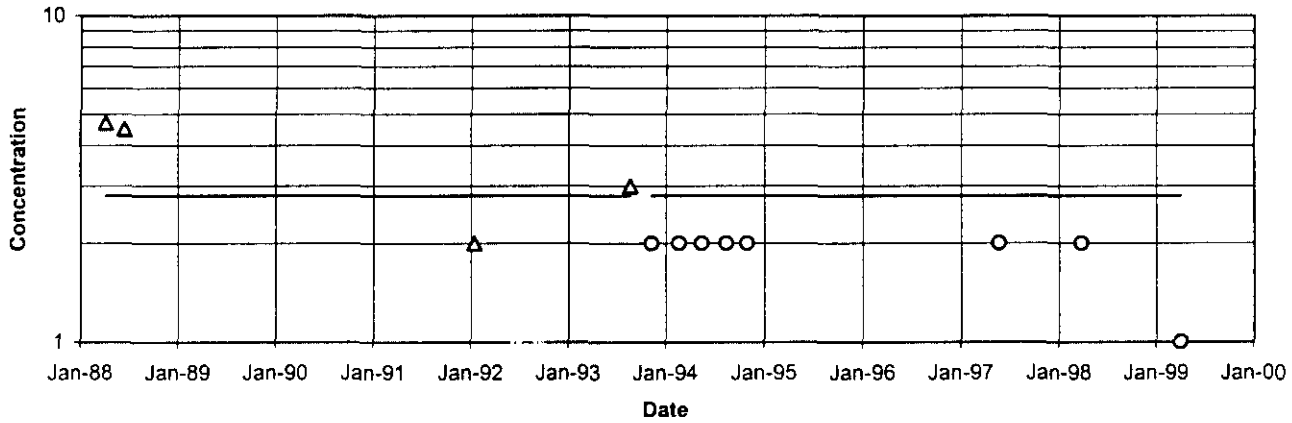
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

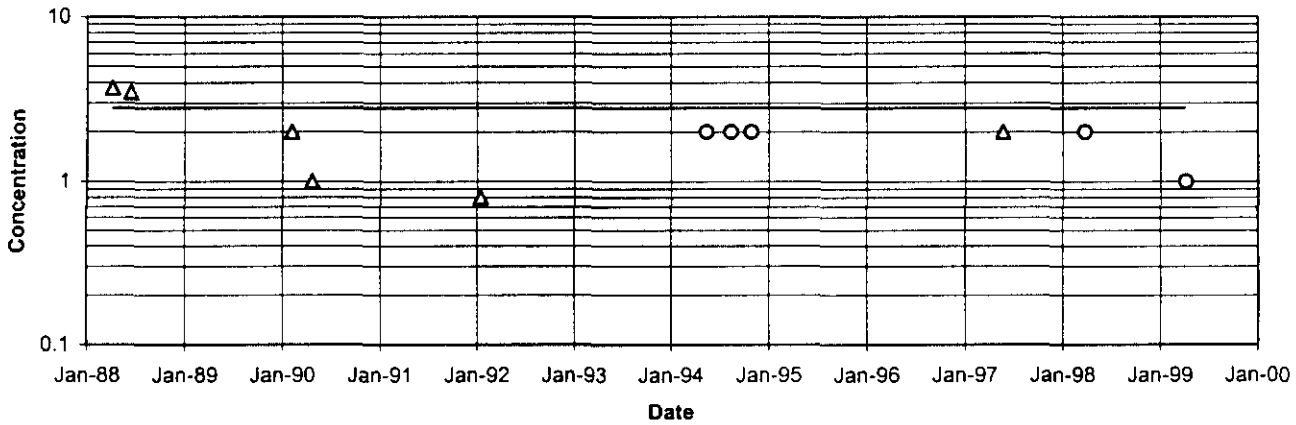
G113



G113A



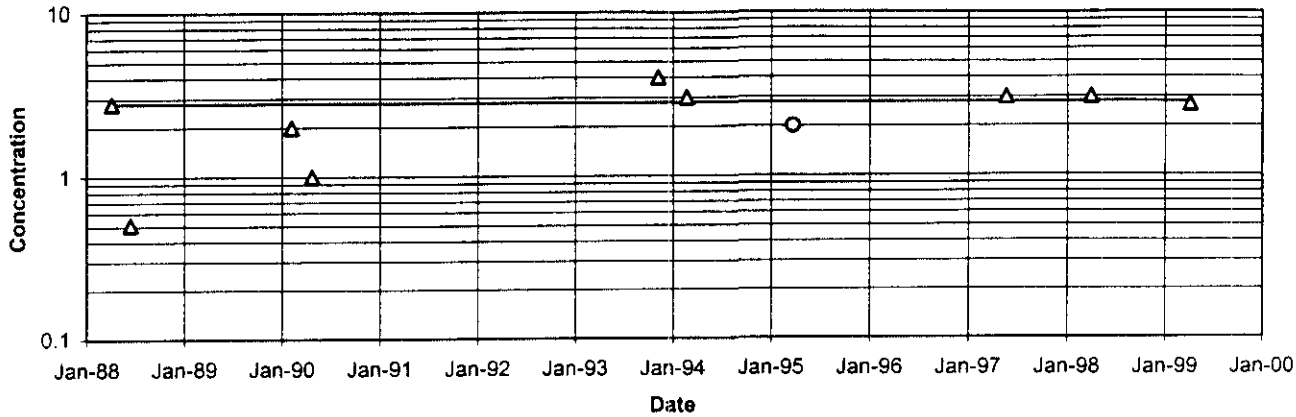
G114



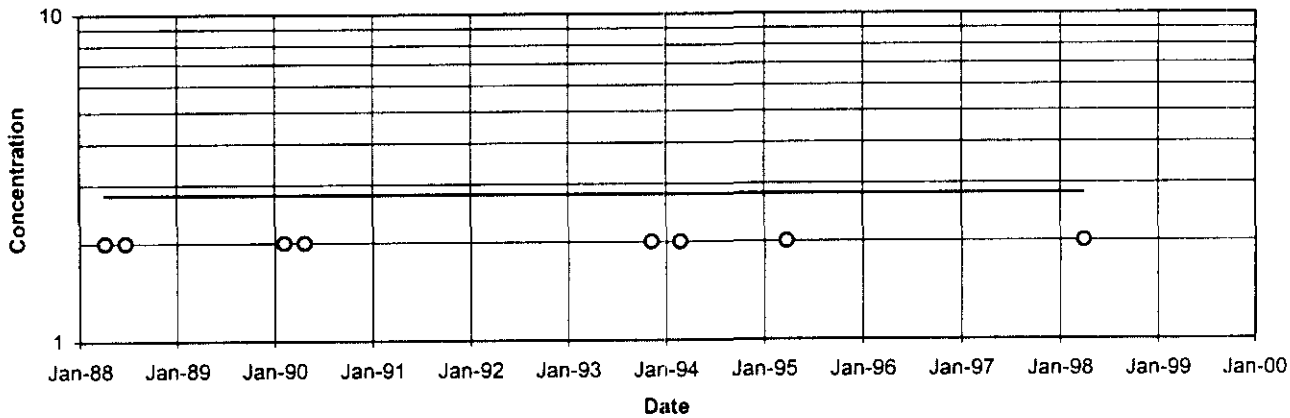
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

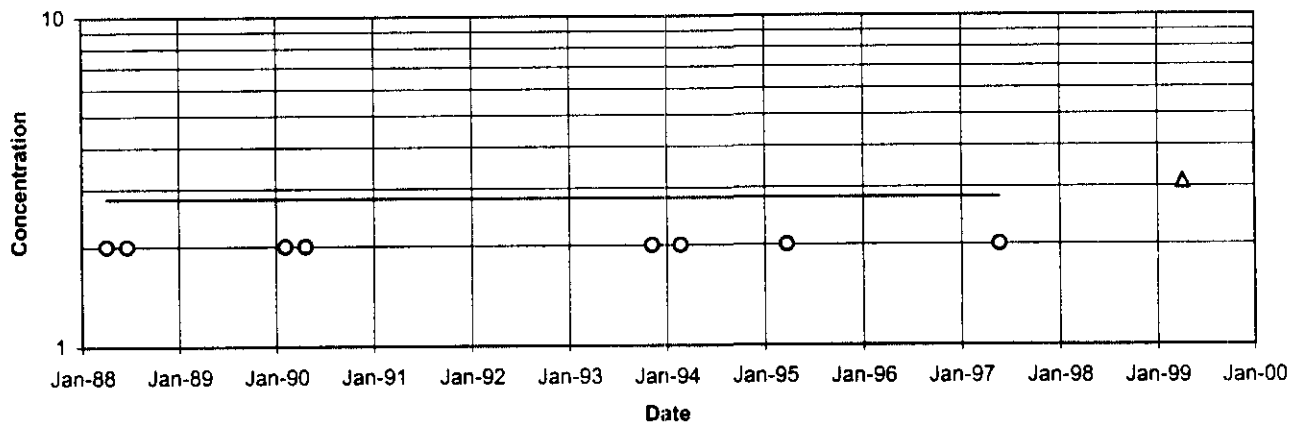
G115



G116



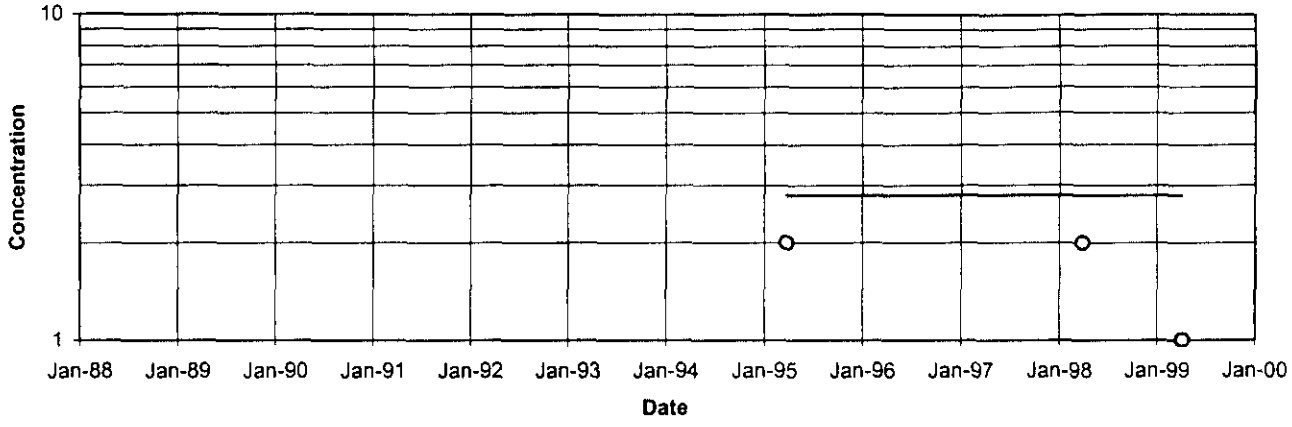
G116A



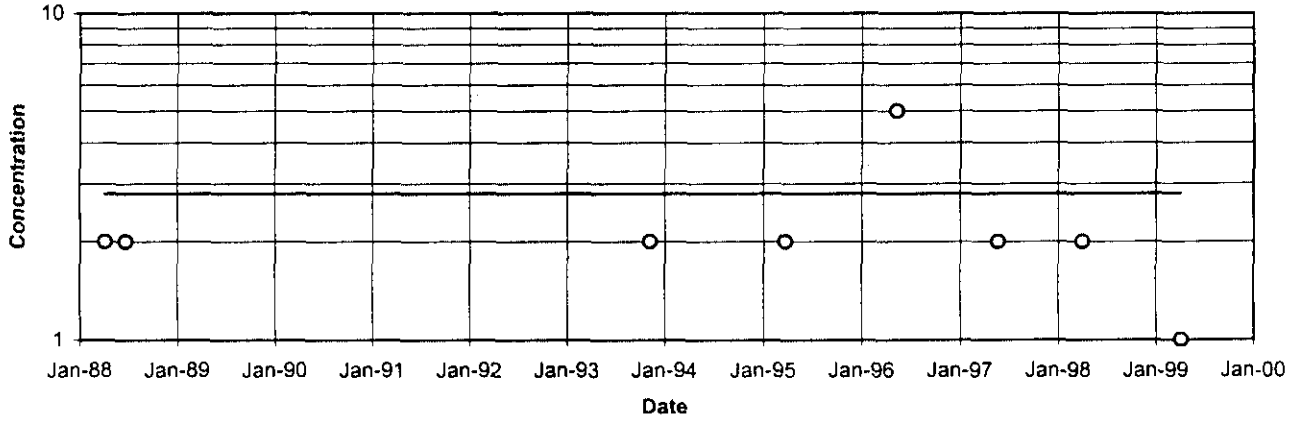
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

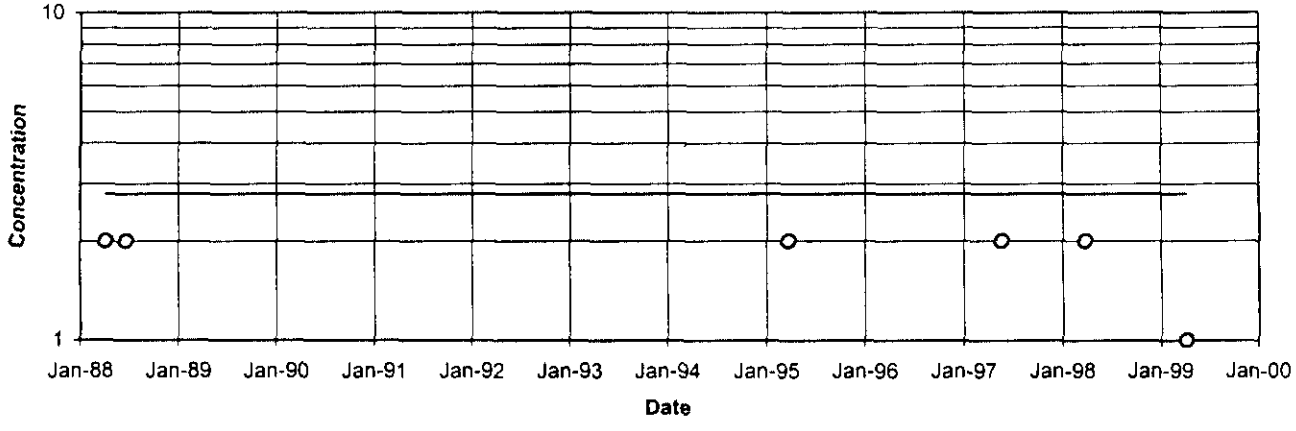
G116D



G117



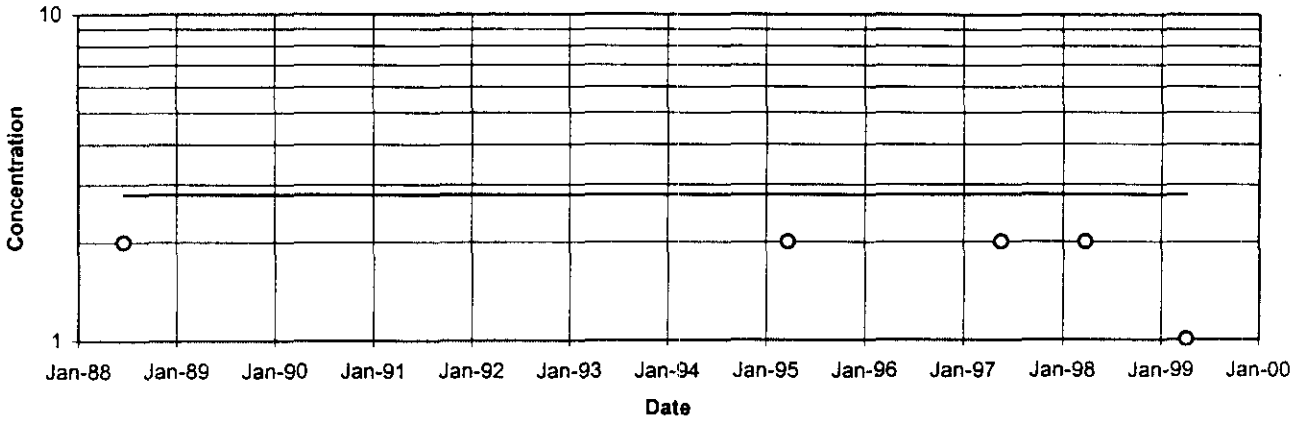
G118A



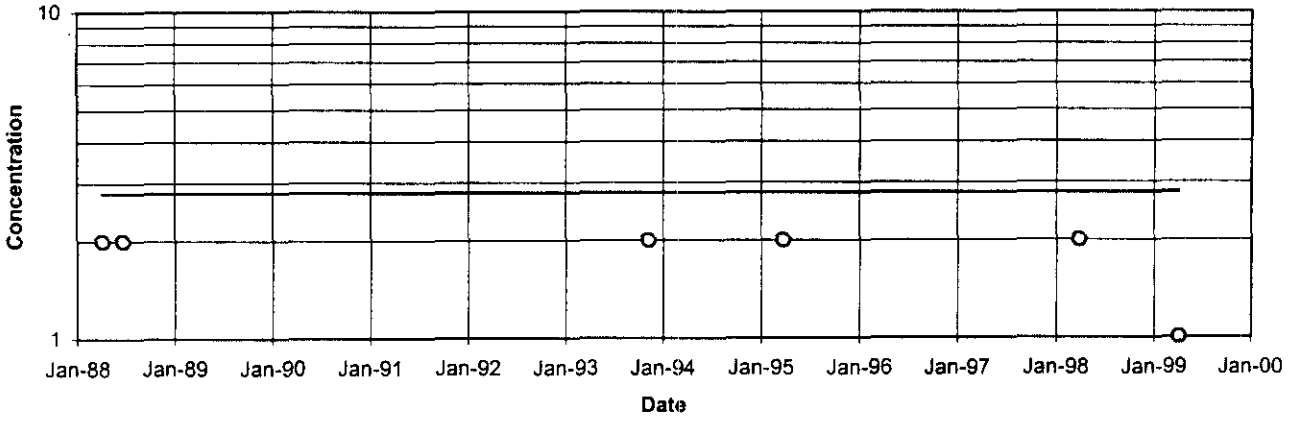
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

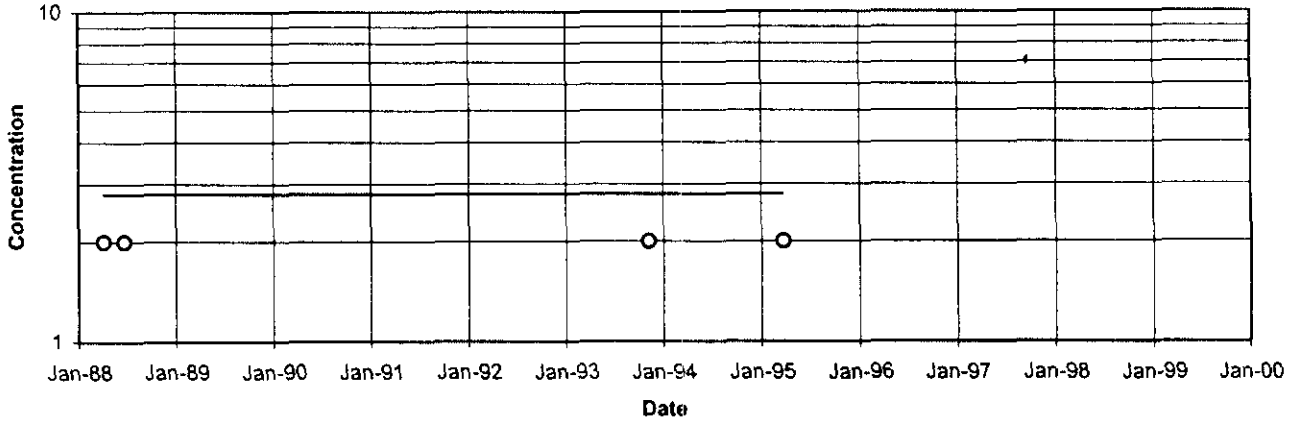
G118R



G119



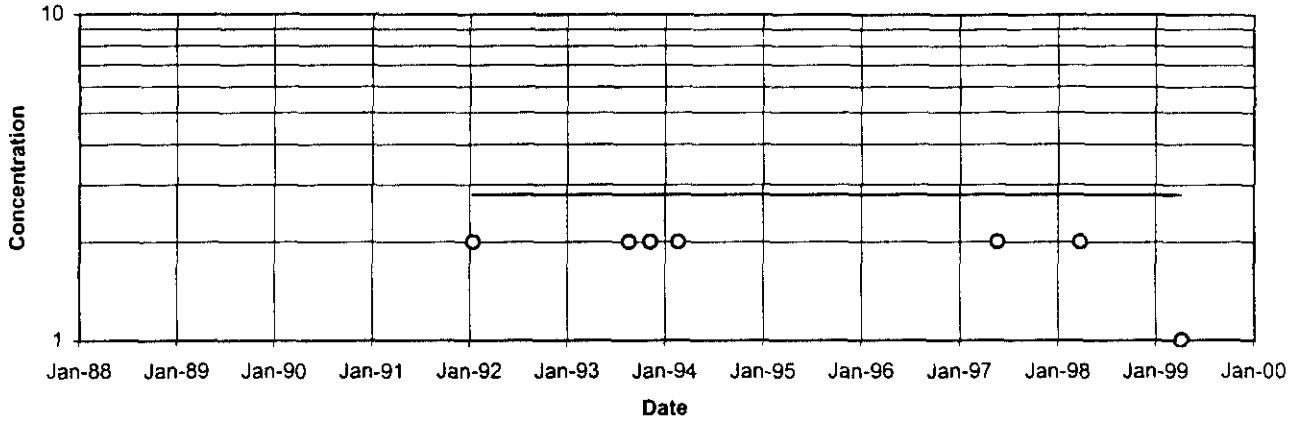
G119A



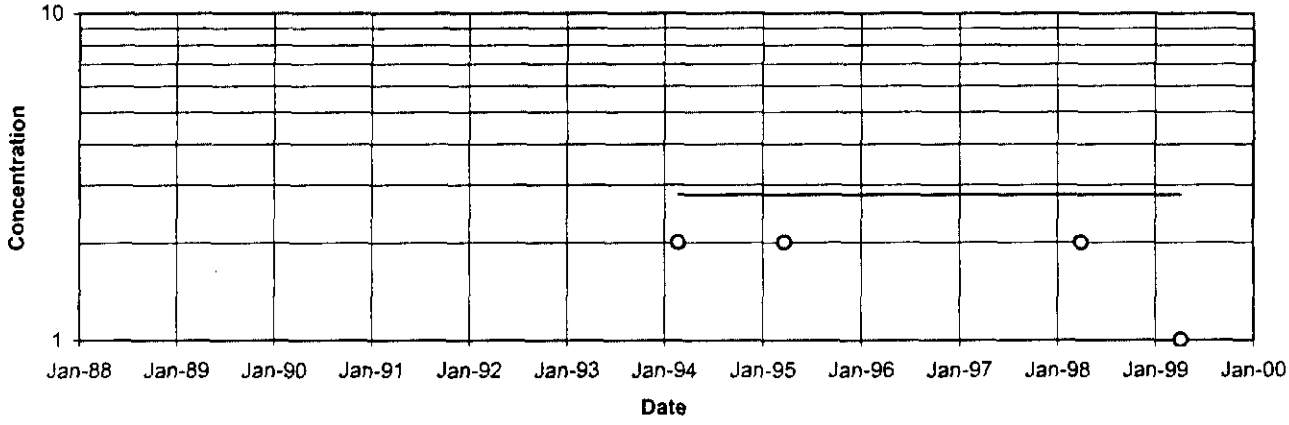
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

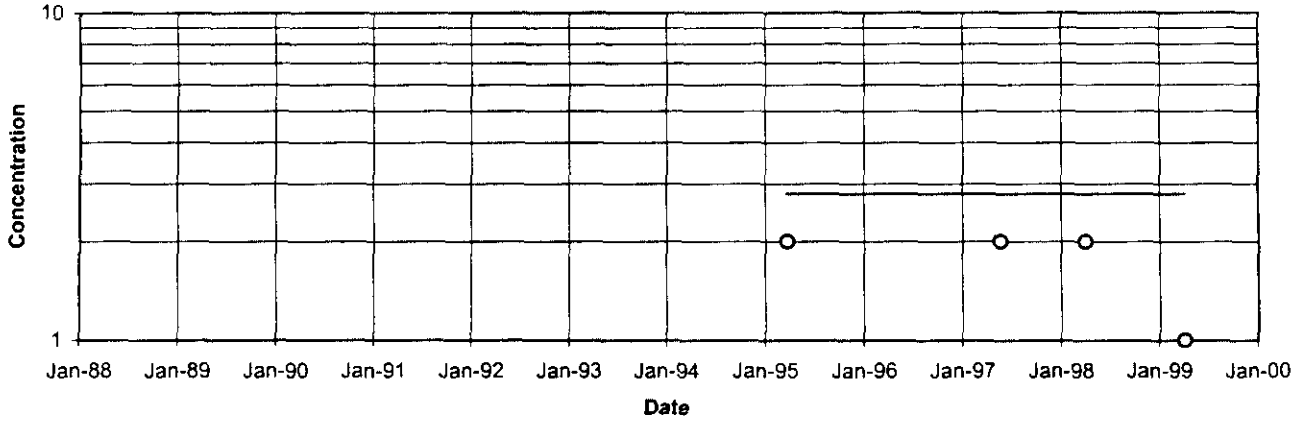
G120B



G130



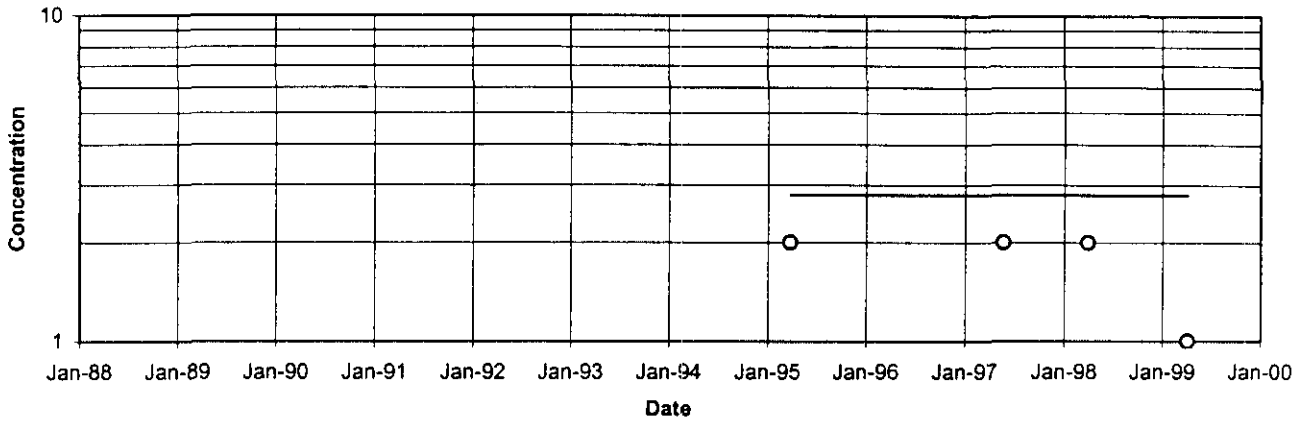
G132



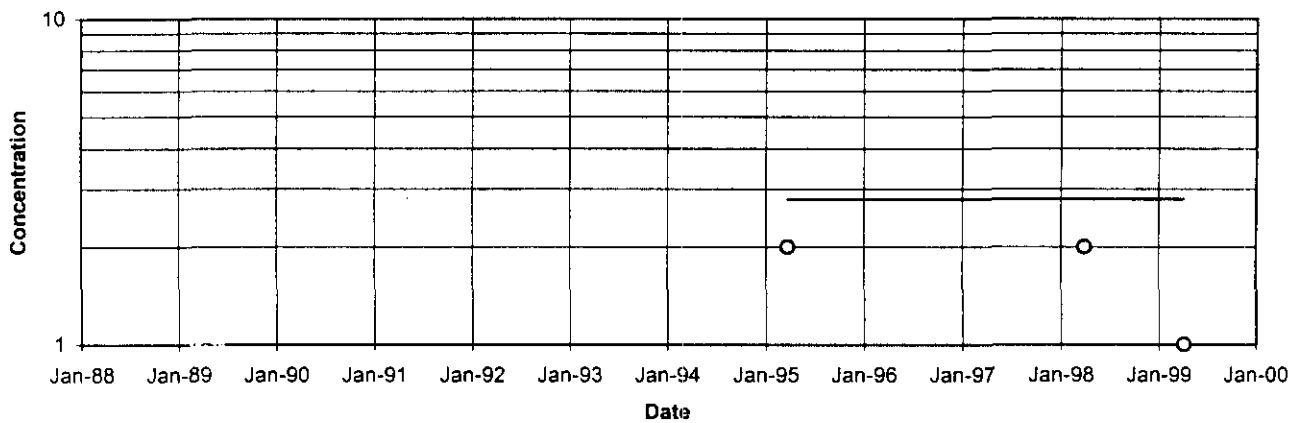
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

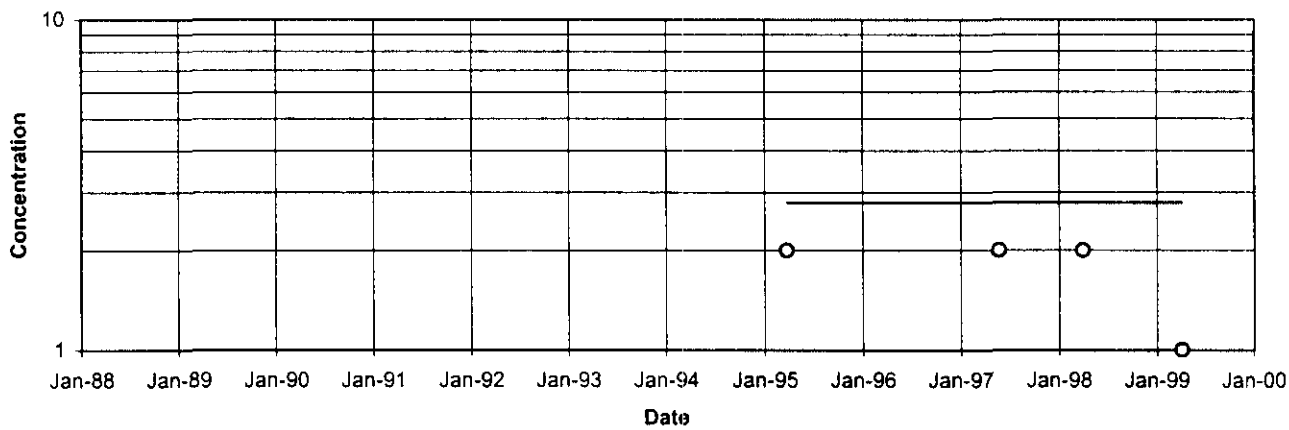
G33D



G33S



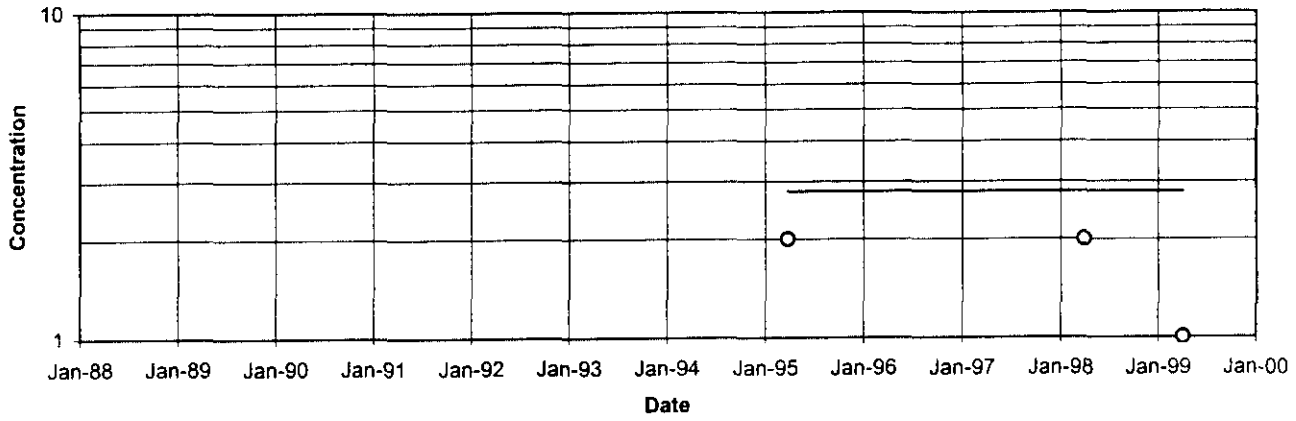
G34D



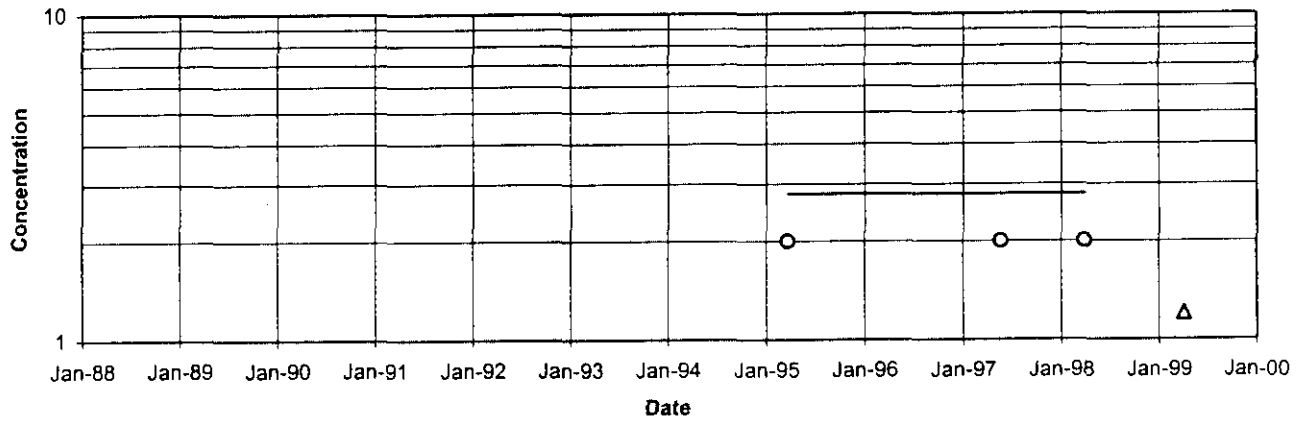
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

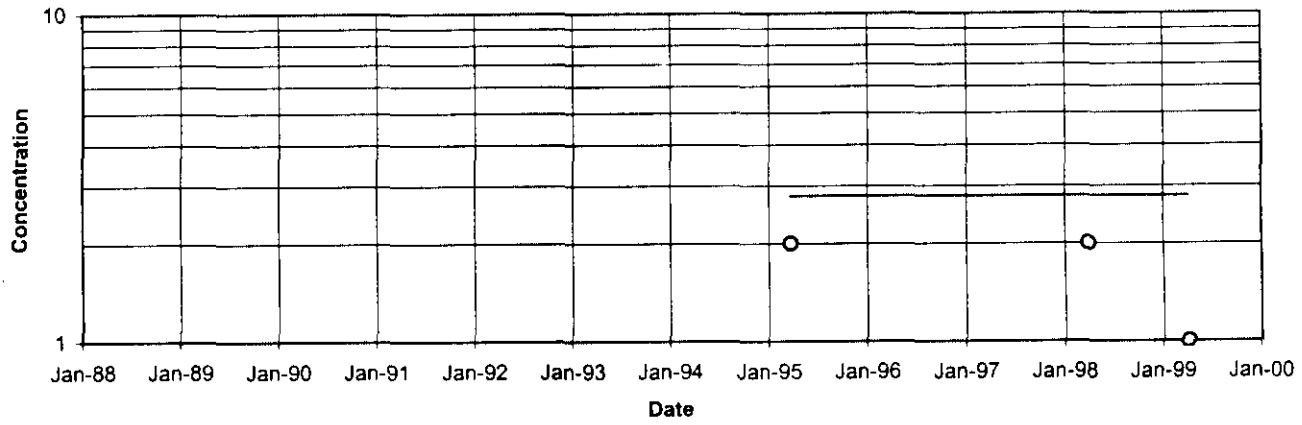
G34S



G35D



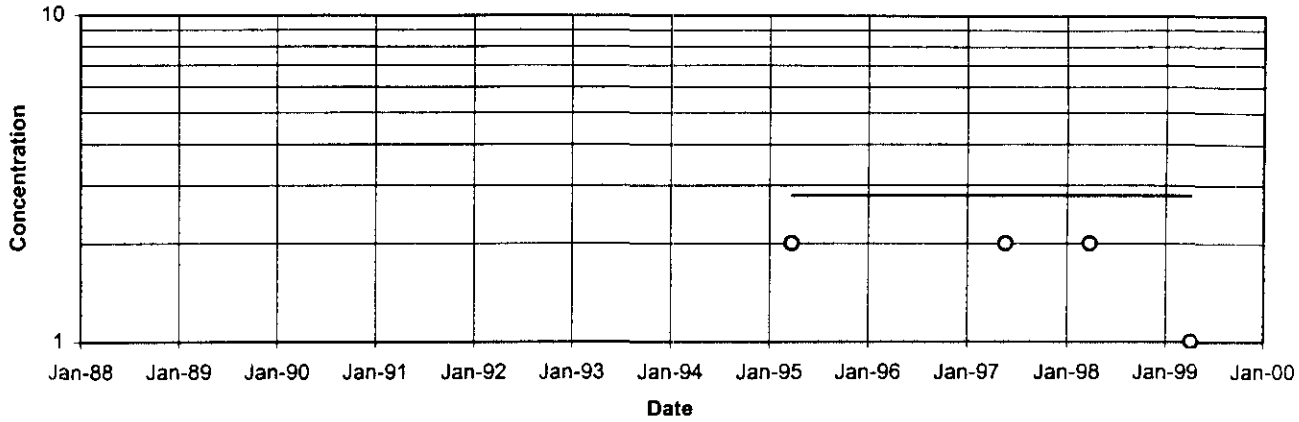
G35S



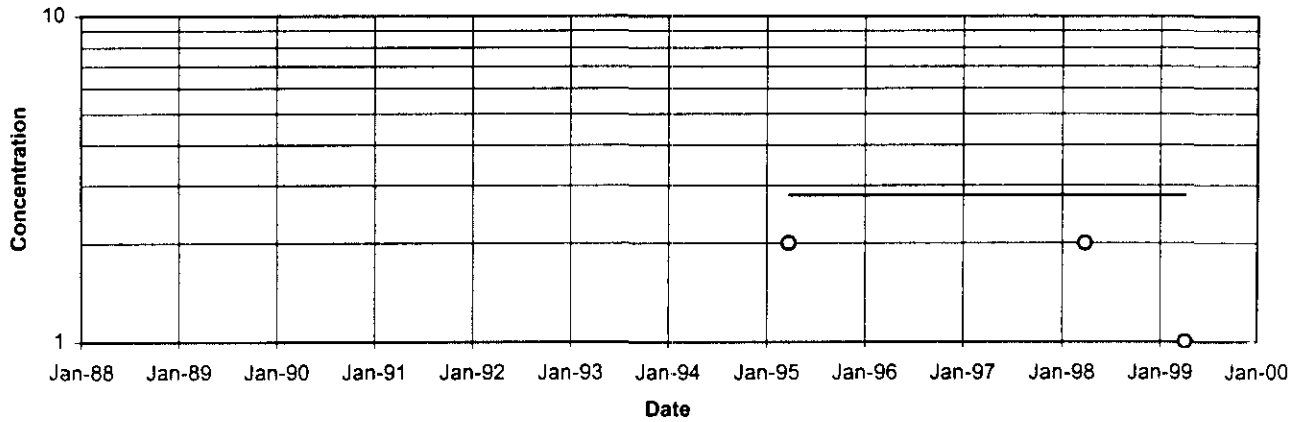
Benzene (ug/L)

AGQS Δ Concentration ○ NonDetect

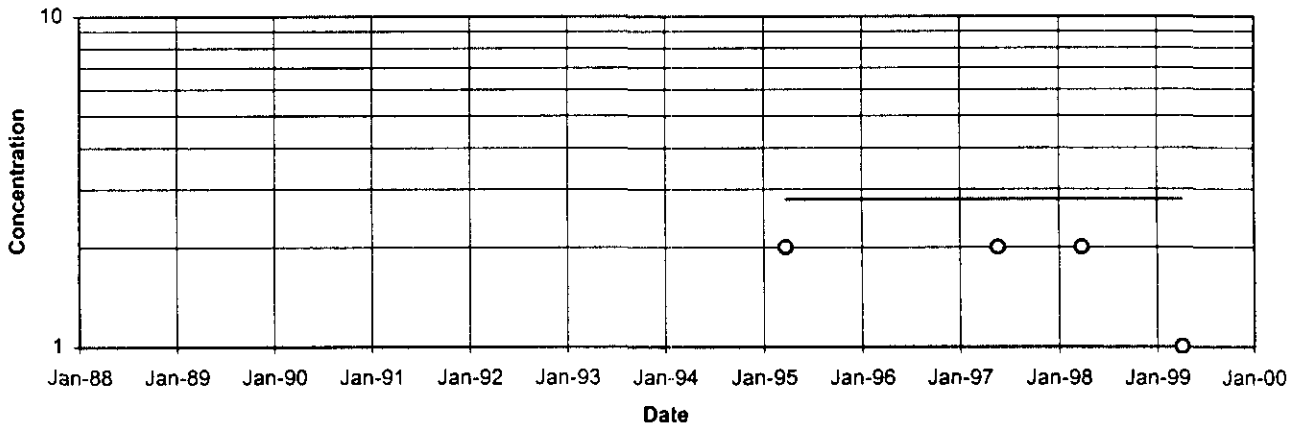
G36



G37D



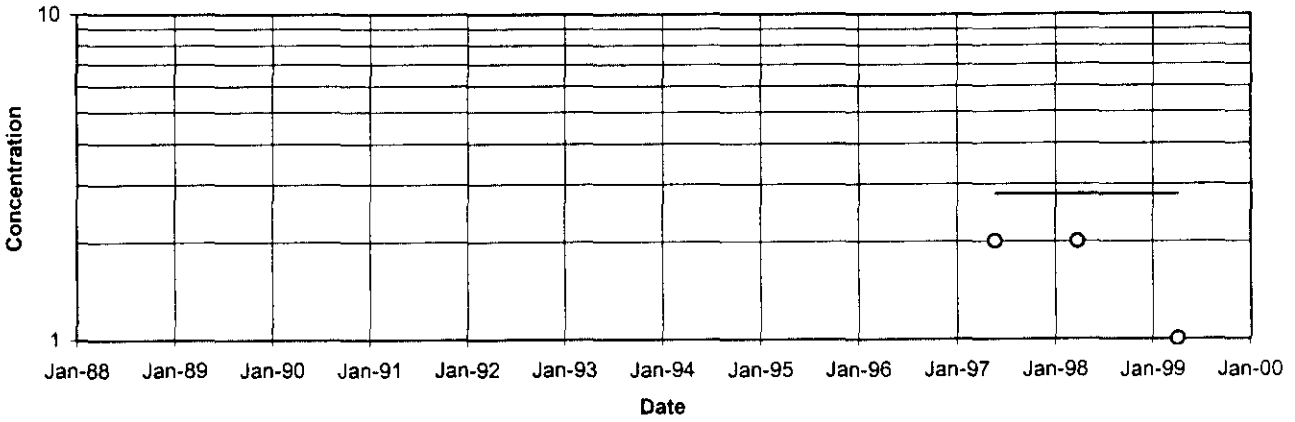
G37S



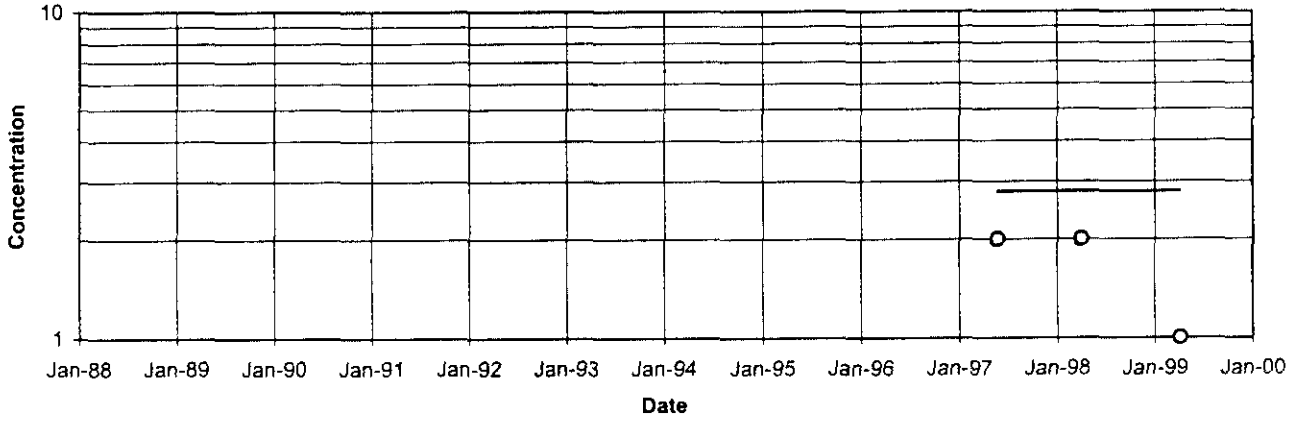
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

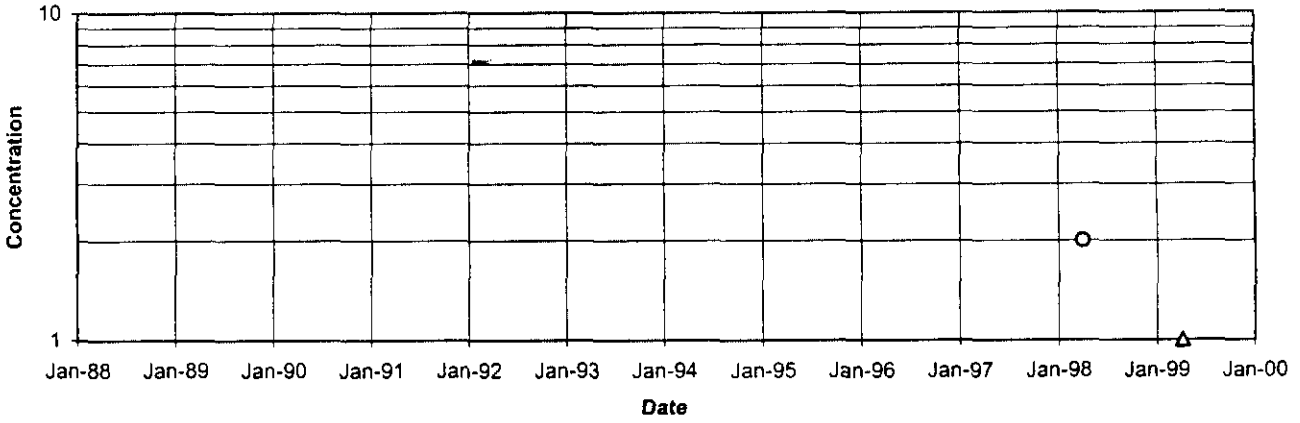
G38



G39



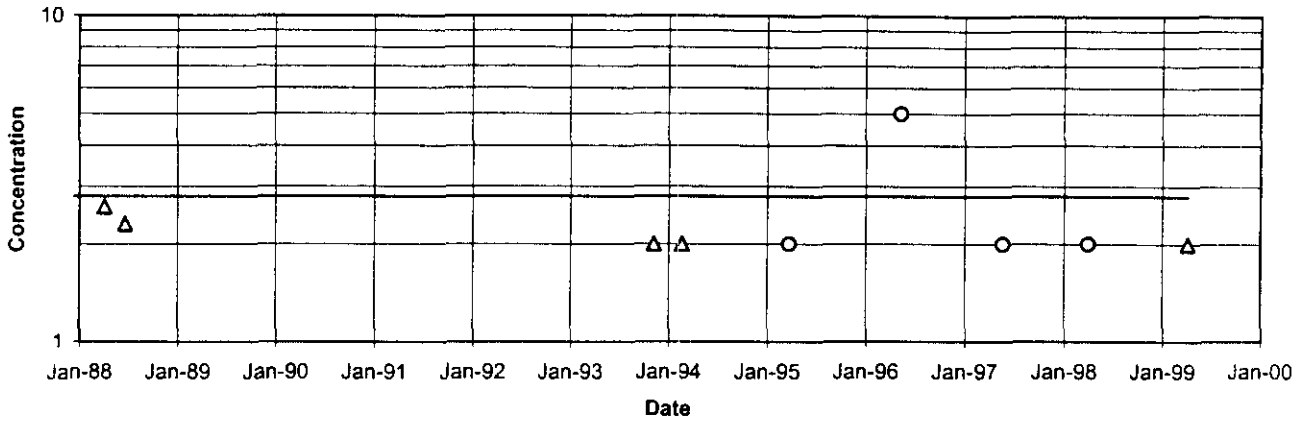
G40



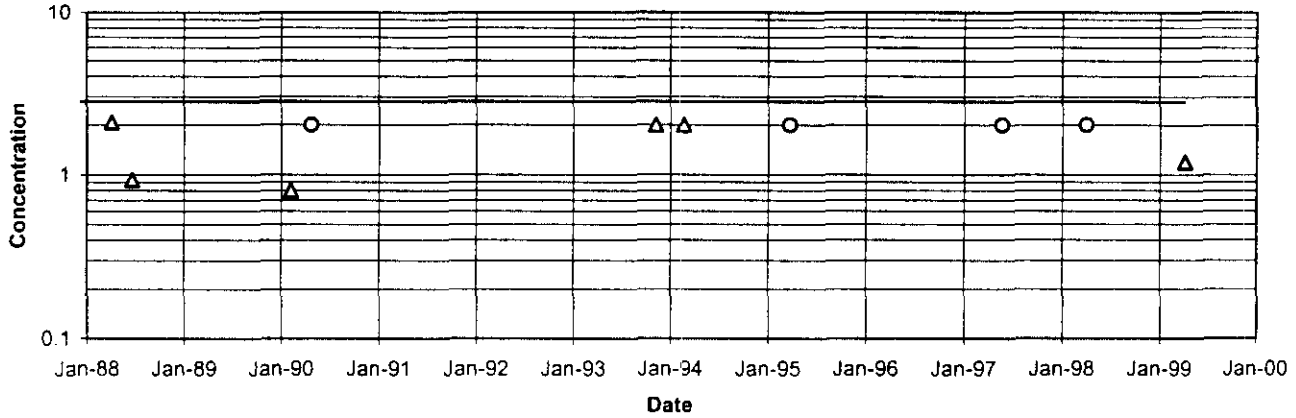
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

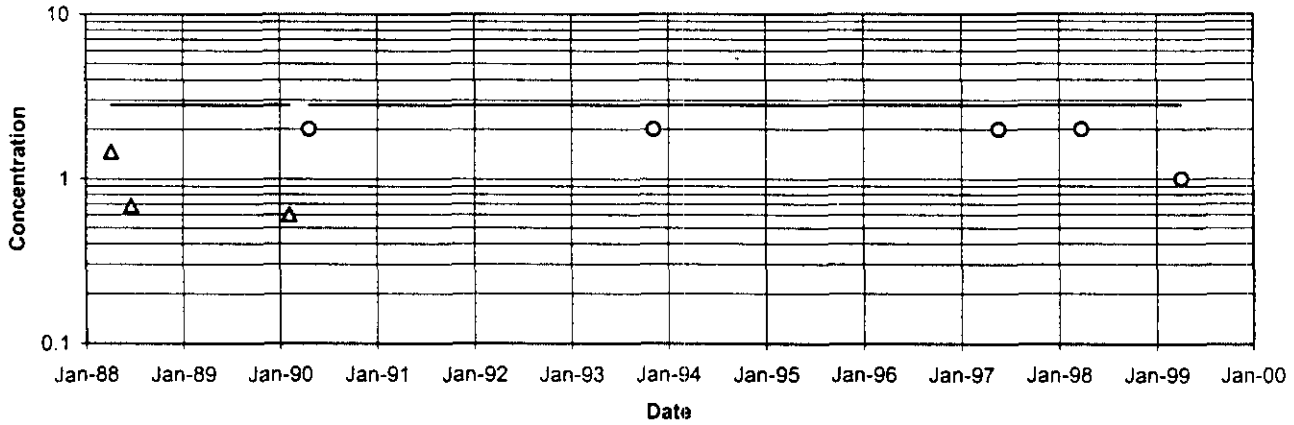
MW106



P1



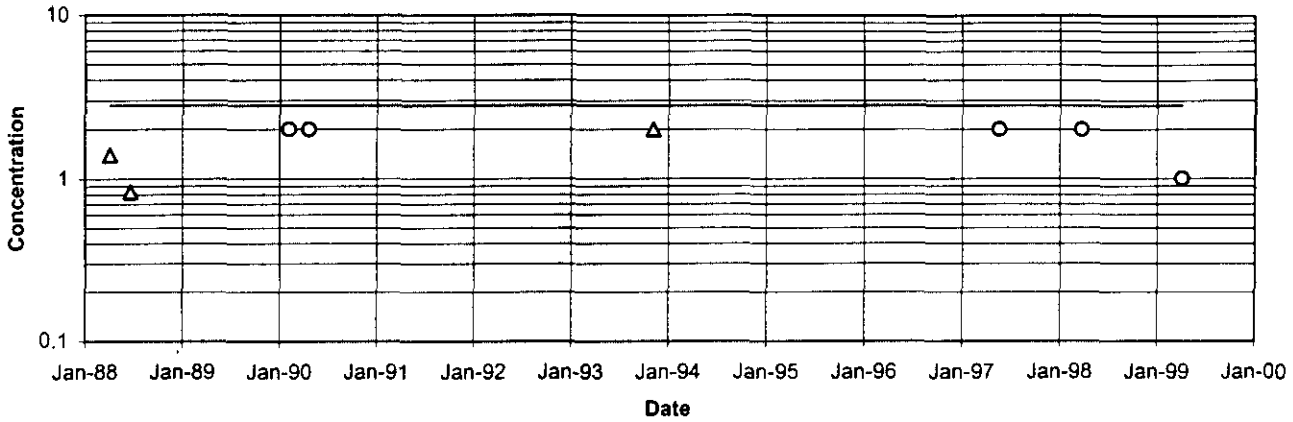
P3R



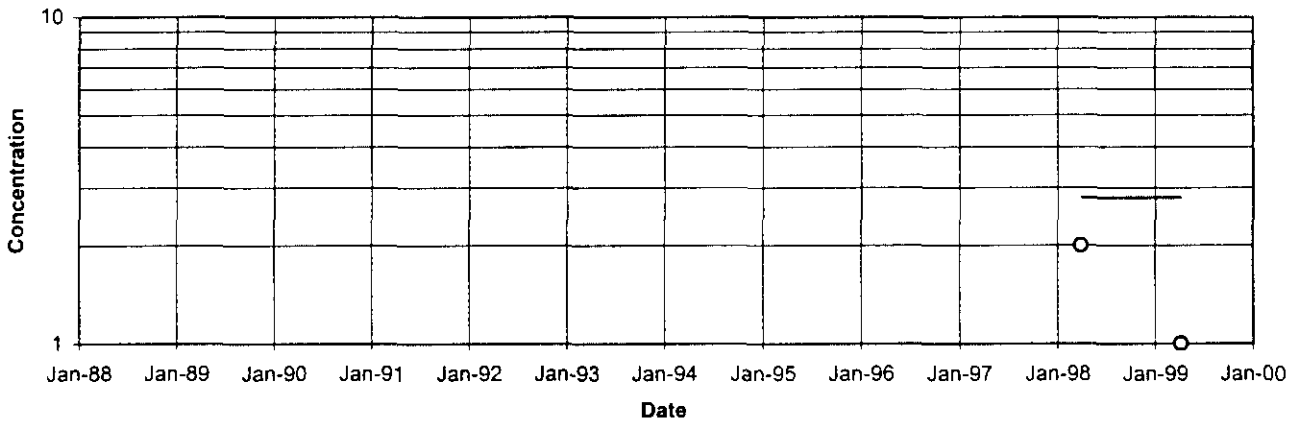
Benzene (ug/L)

AGQS Δ Concentration O NonDetect

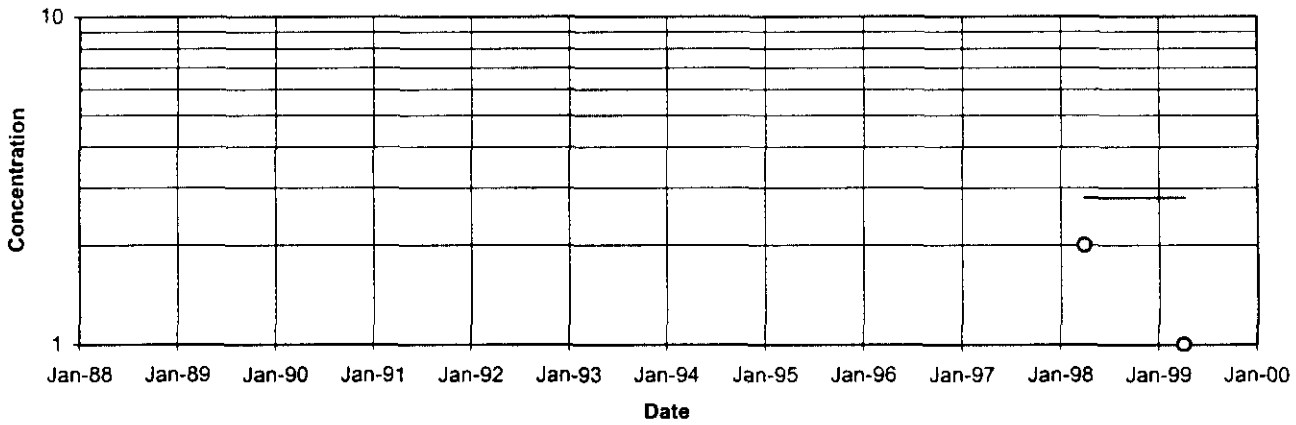
P4R



SG1



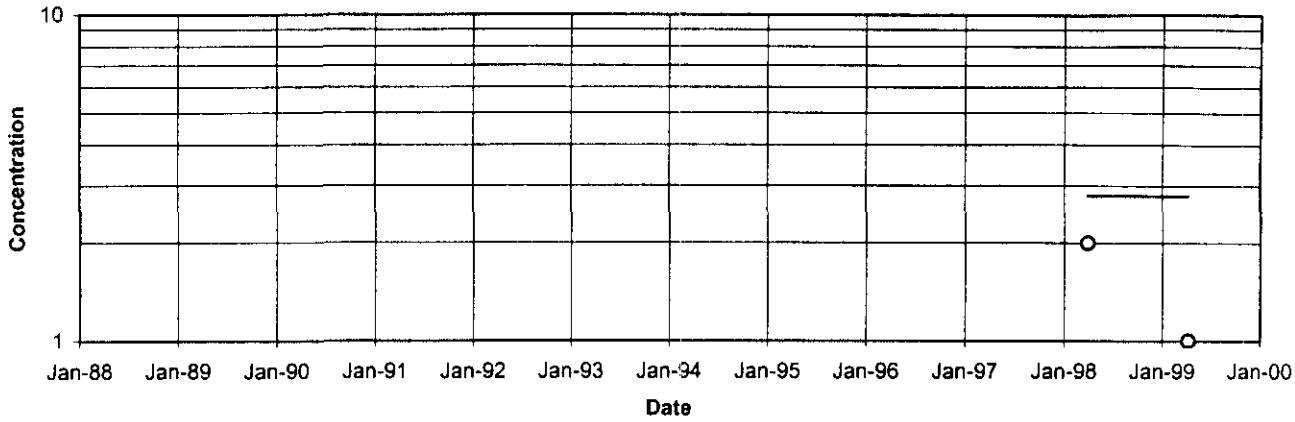
SG3



Benzene (ug/L)

AGQS Δ Concentration O NonDetect

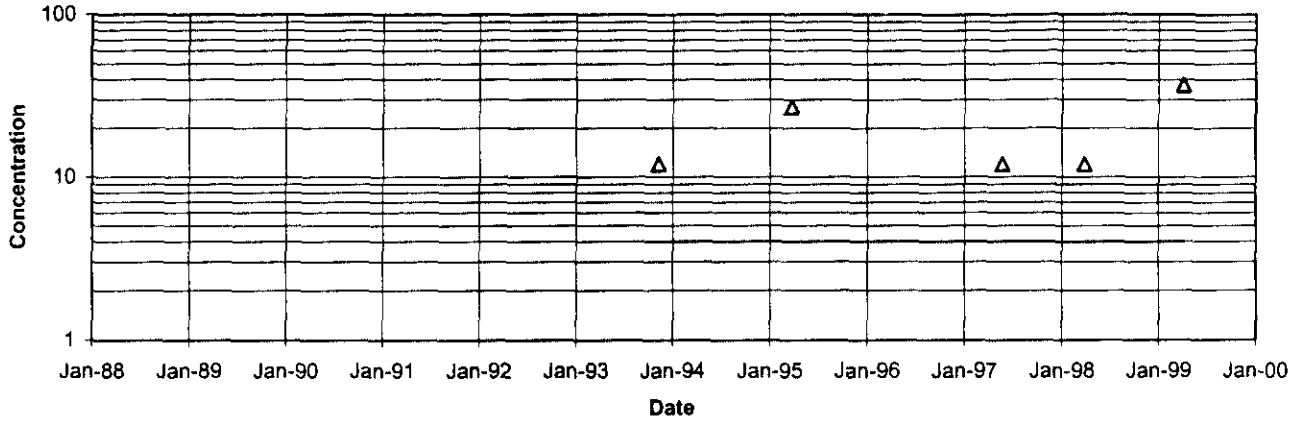
SG4



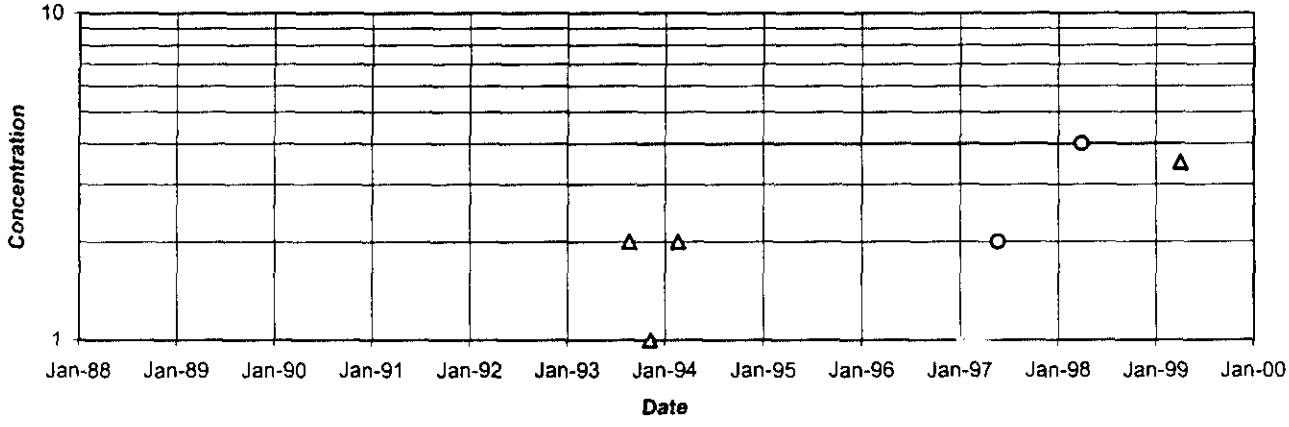
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

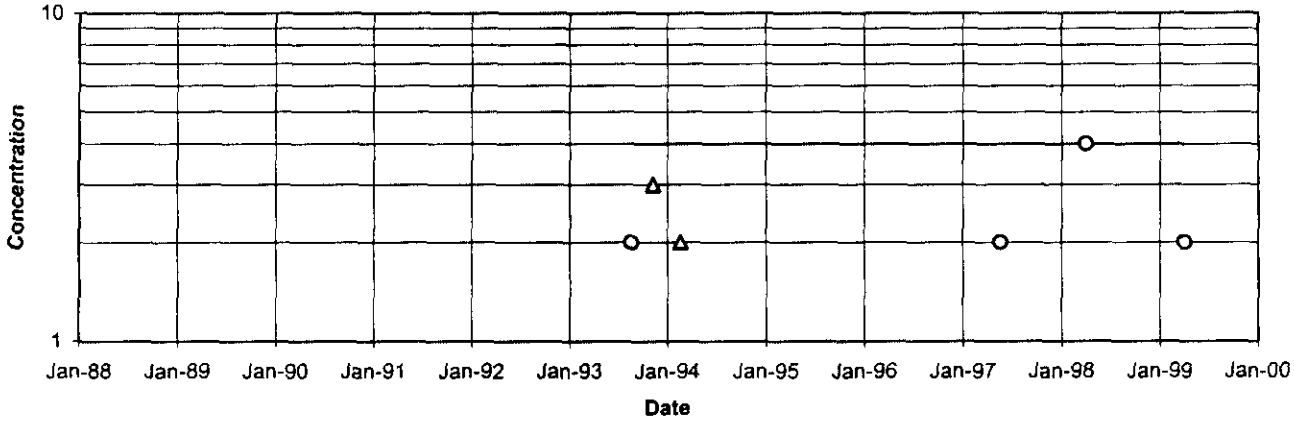
B15R



G109



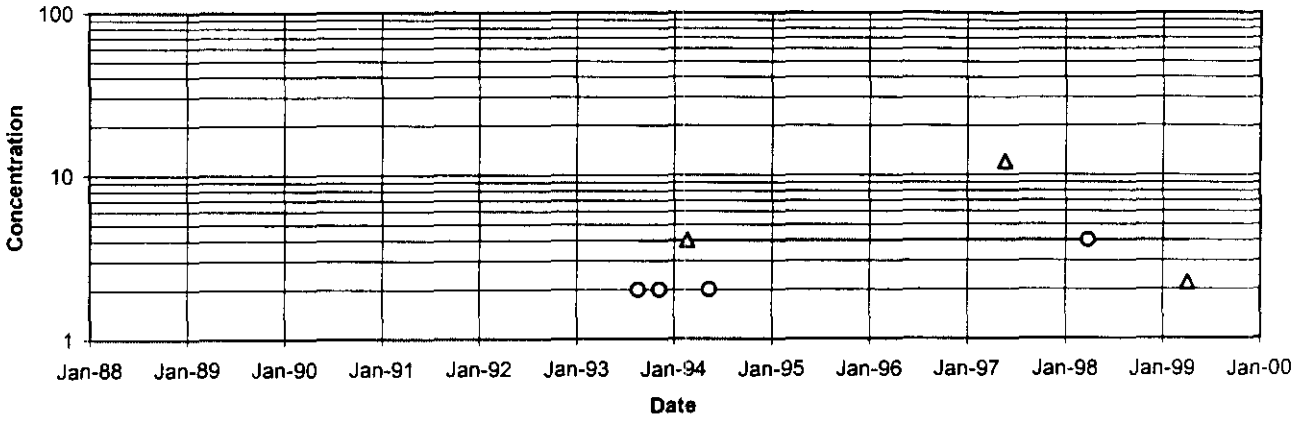
G109A



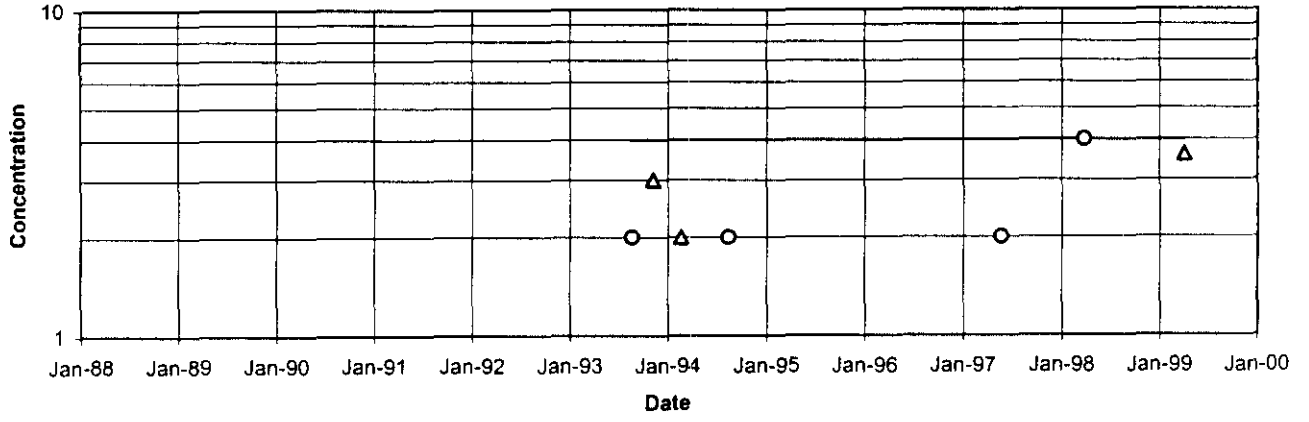
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

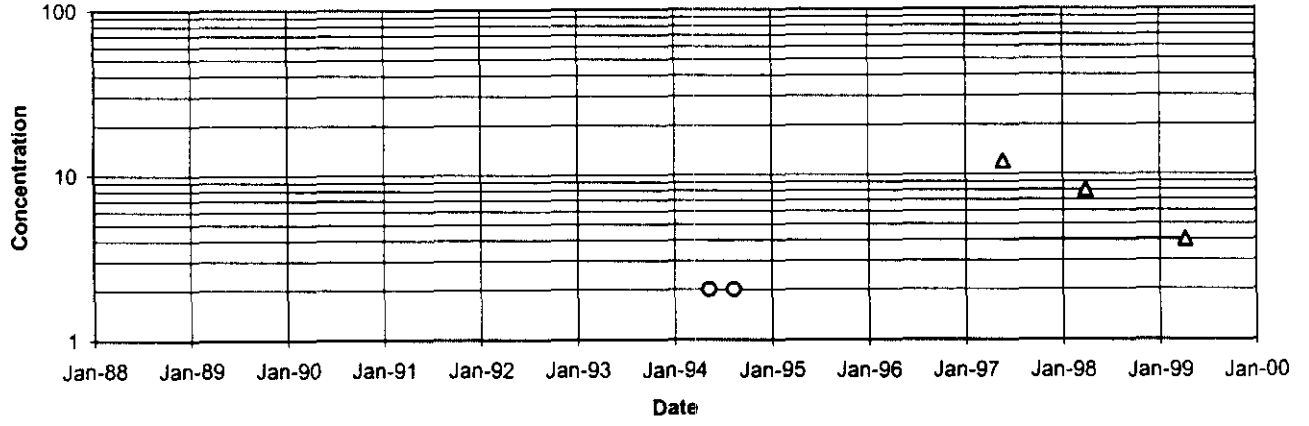
G113



G113A



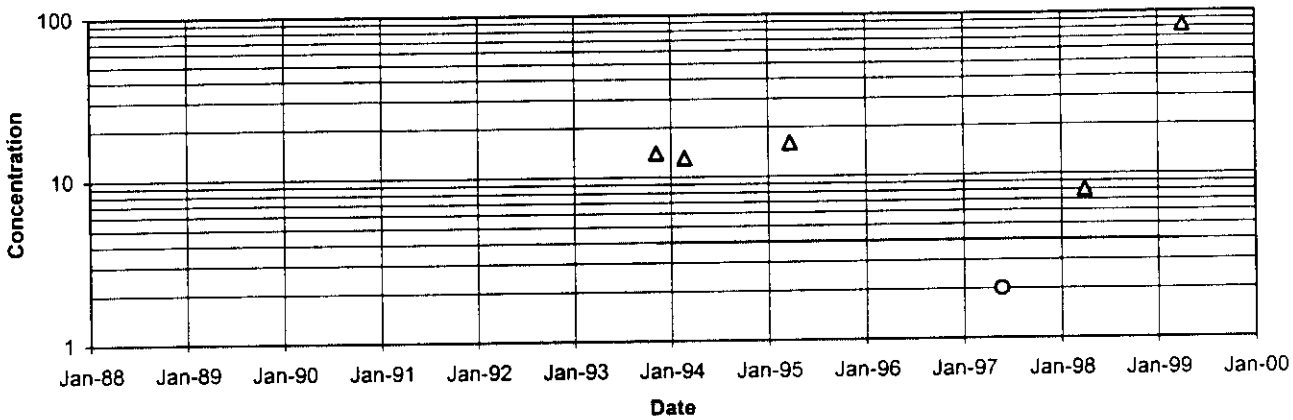
G114



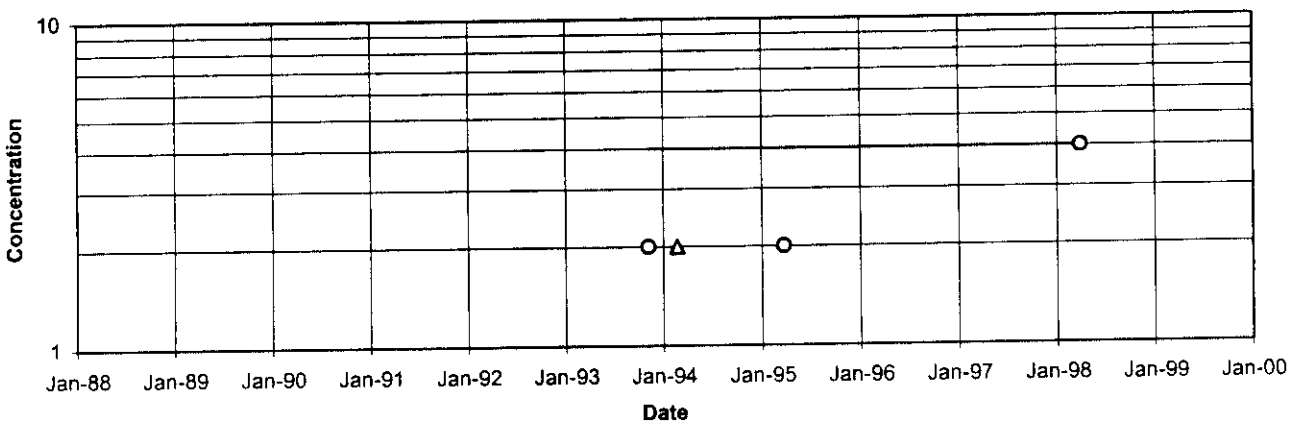
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

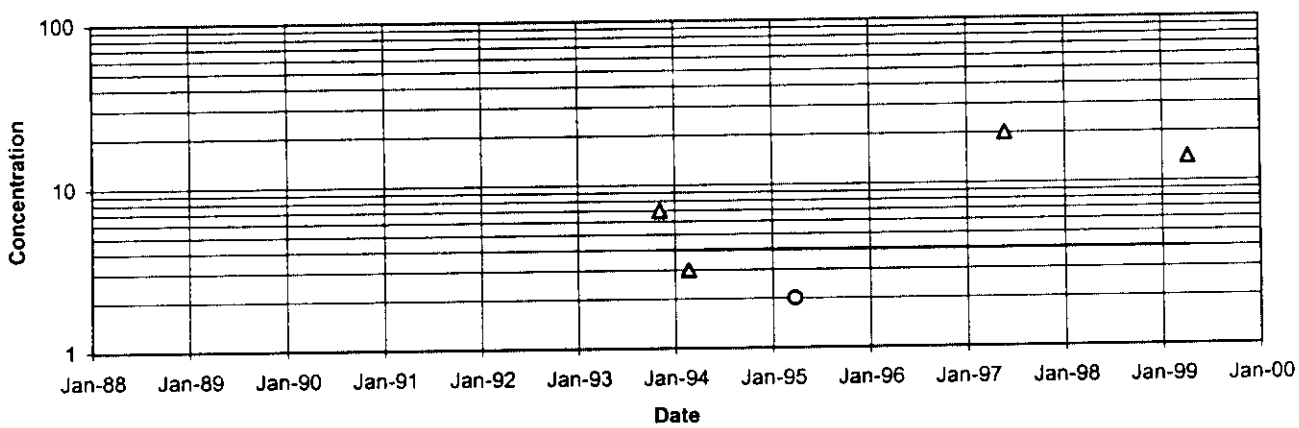
G115



G116



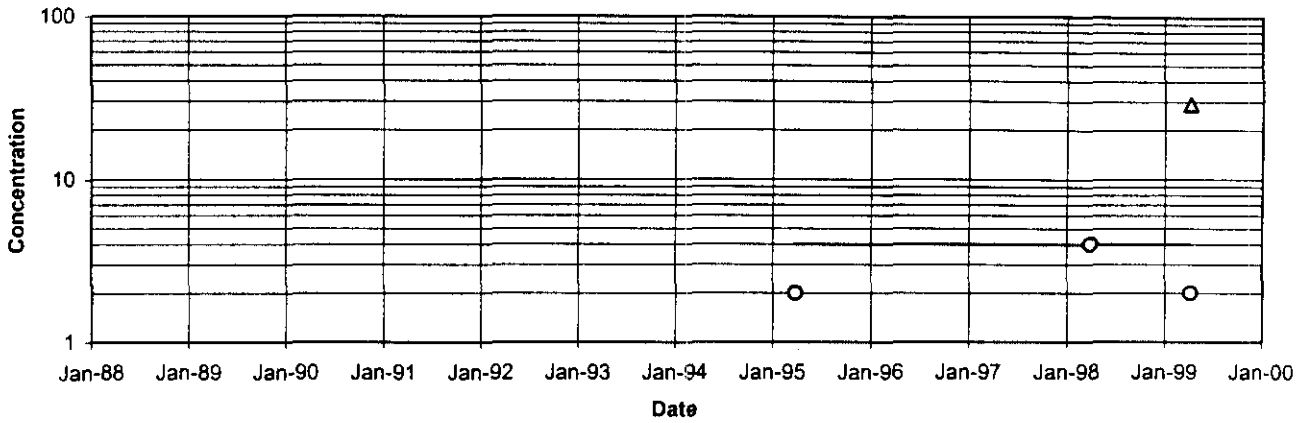
G116A



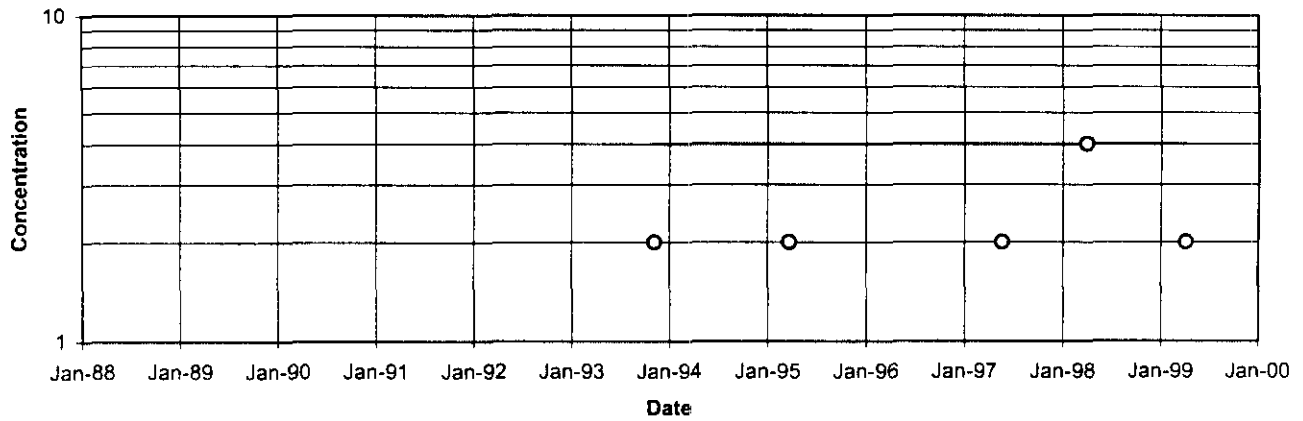
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration ○ NonDetect

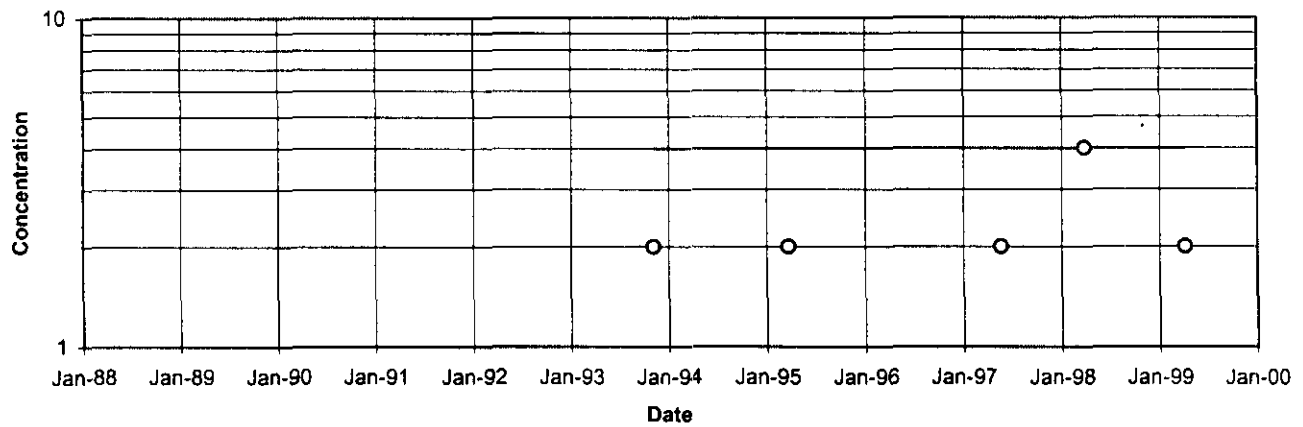
G116D



G117



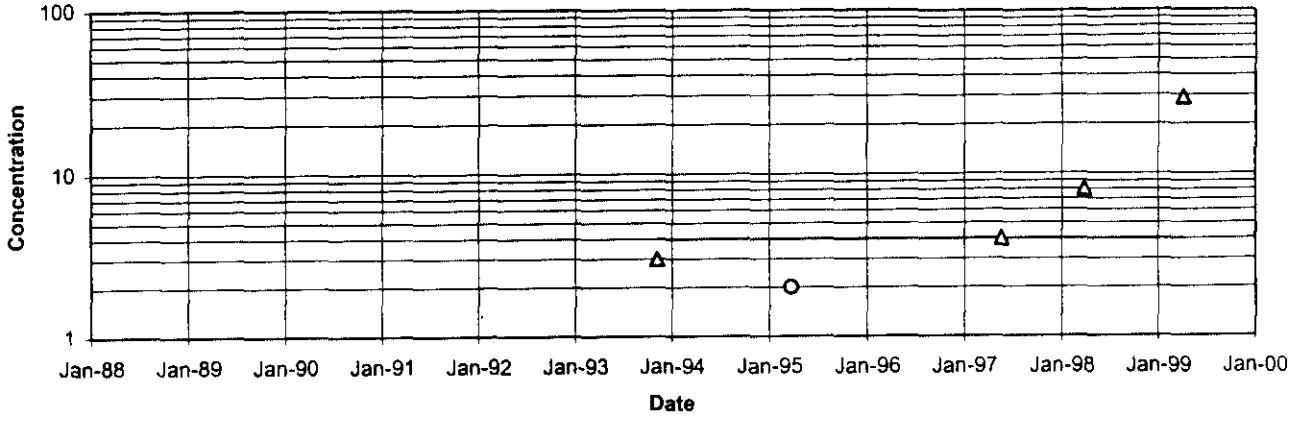
G118A



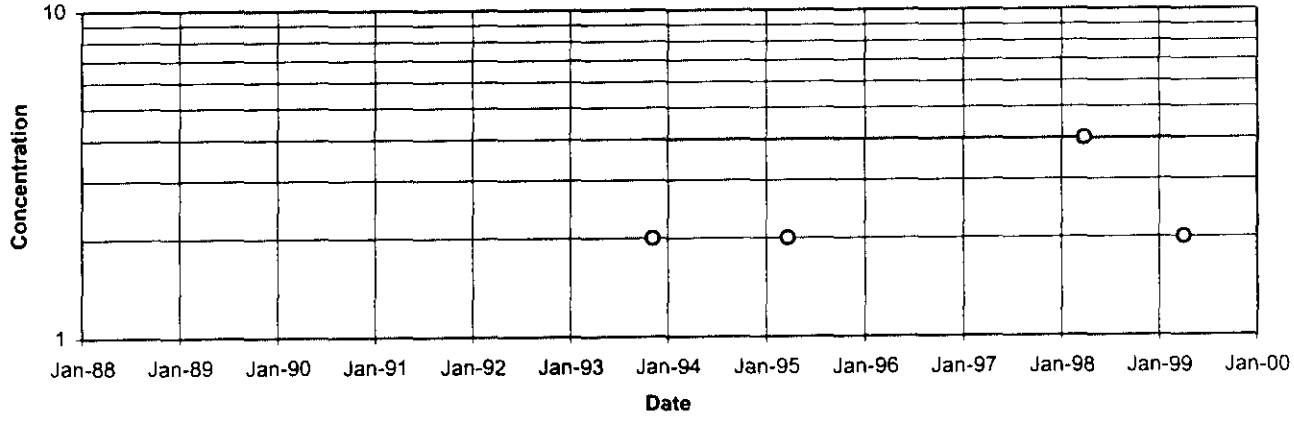
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

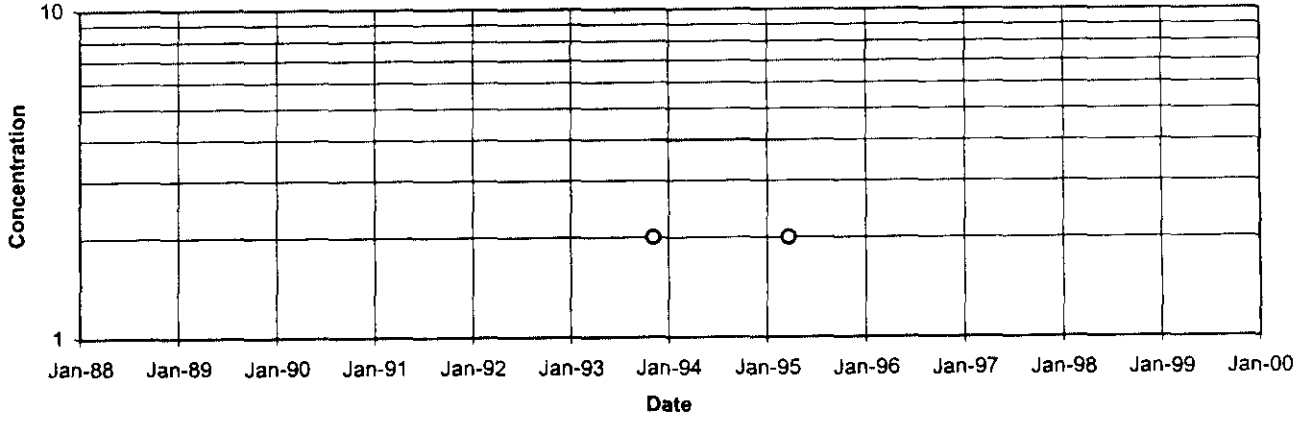
G118R



G119



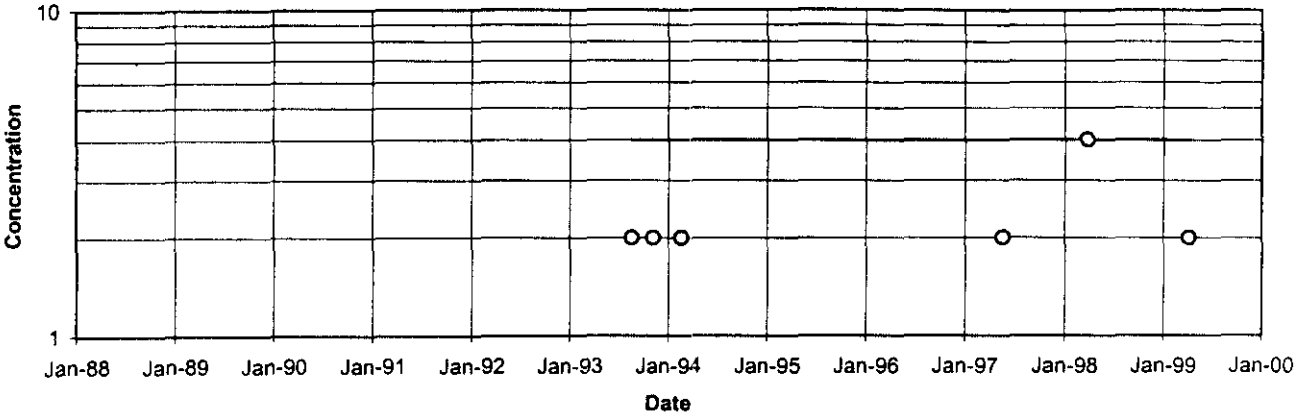
G119A



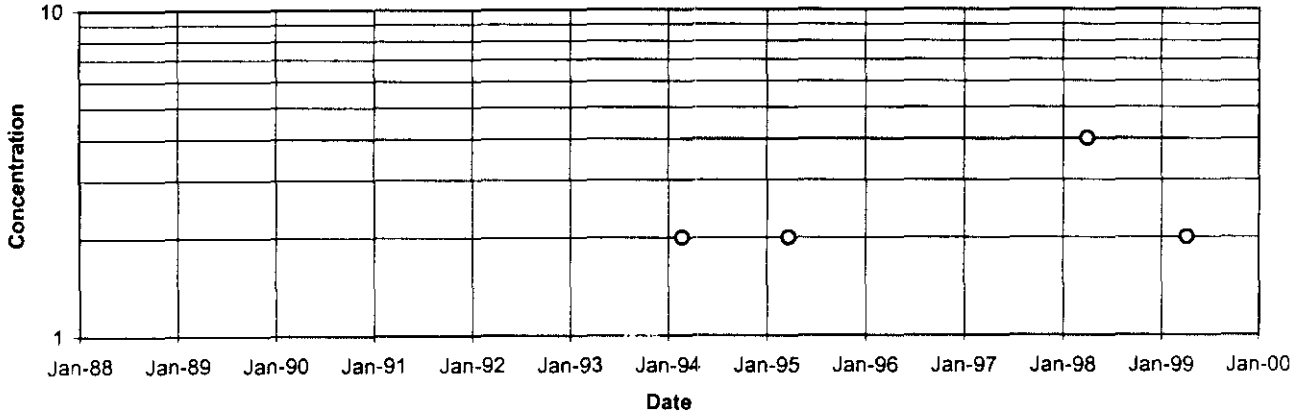
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

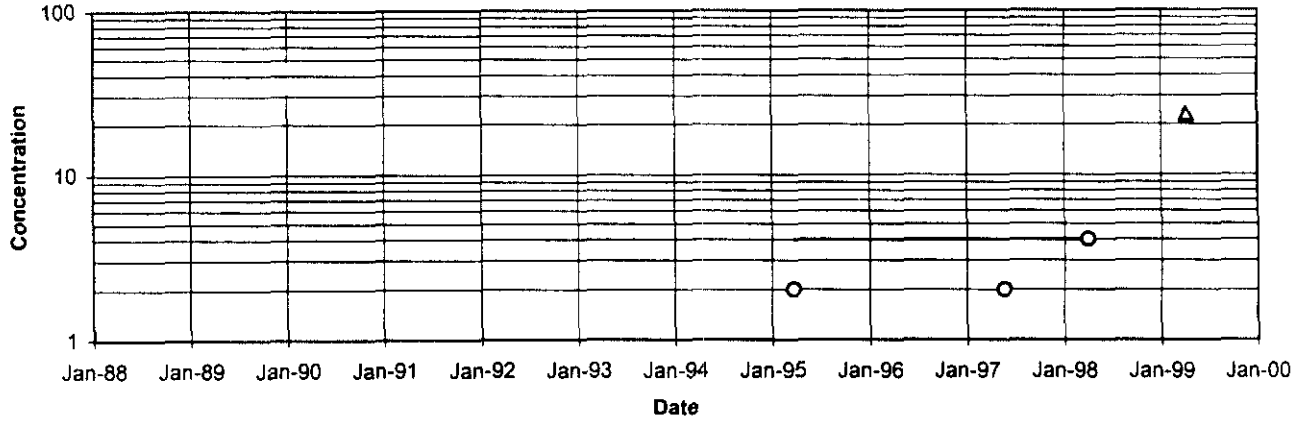
G120B



G130



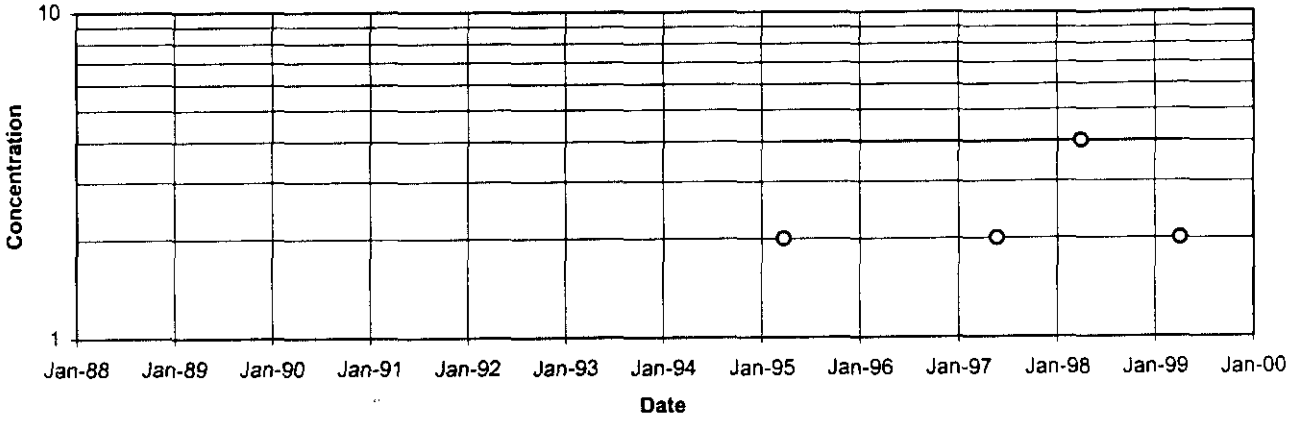
G132



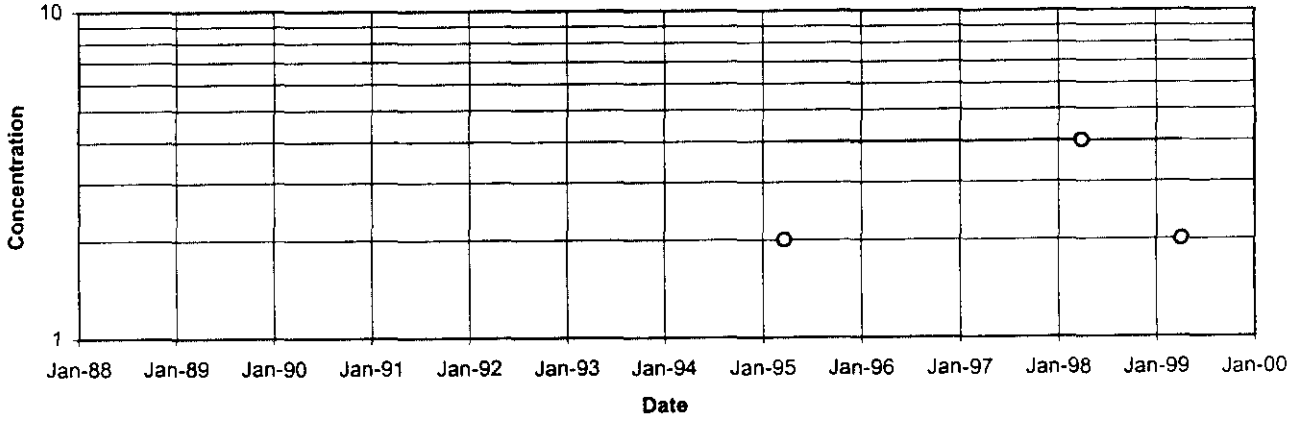
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration ○ NonDetect

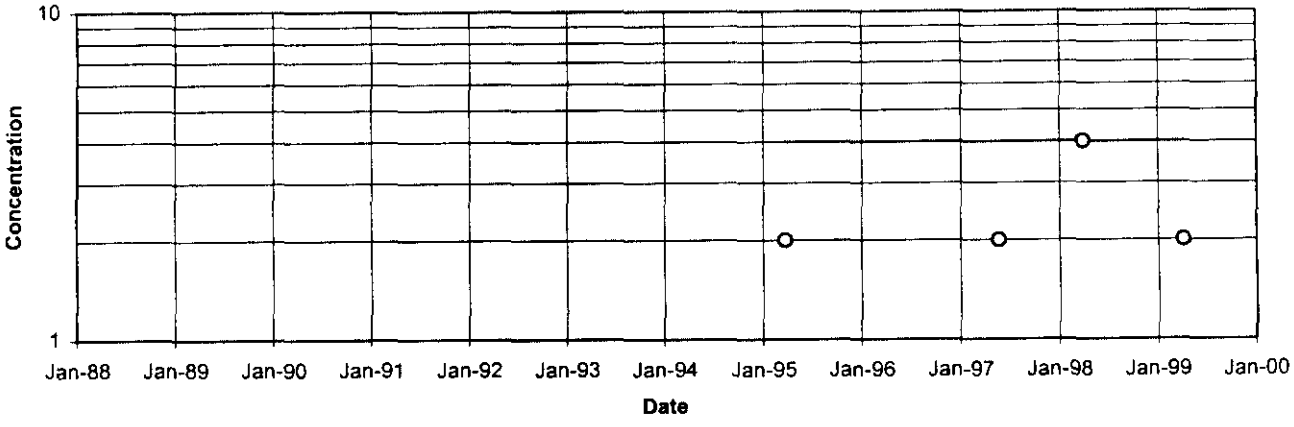
G33D



G33S



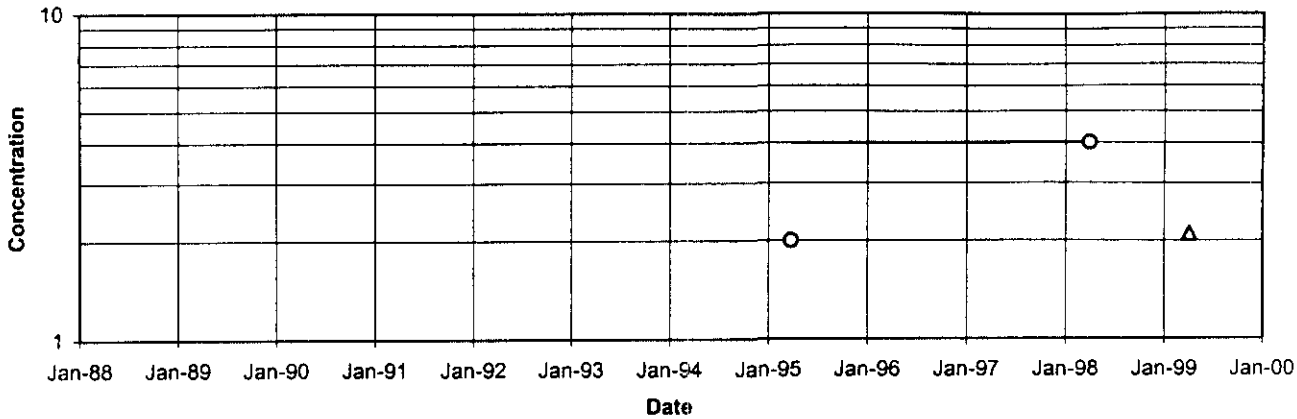
G34D



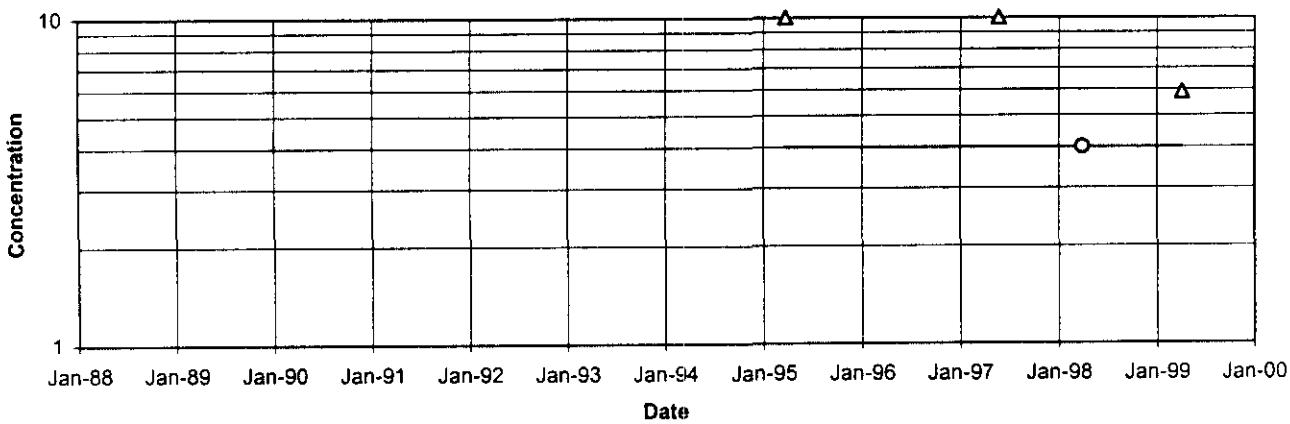
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration ○ NonDetect

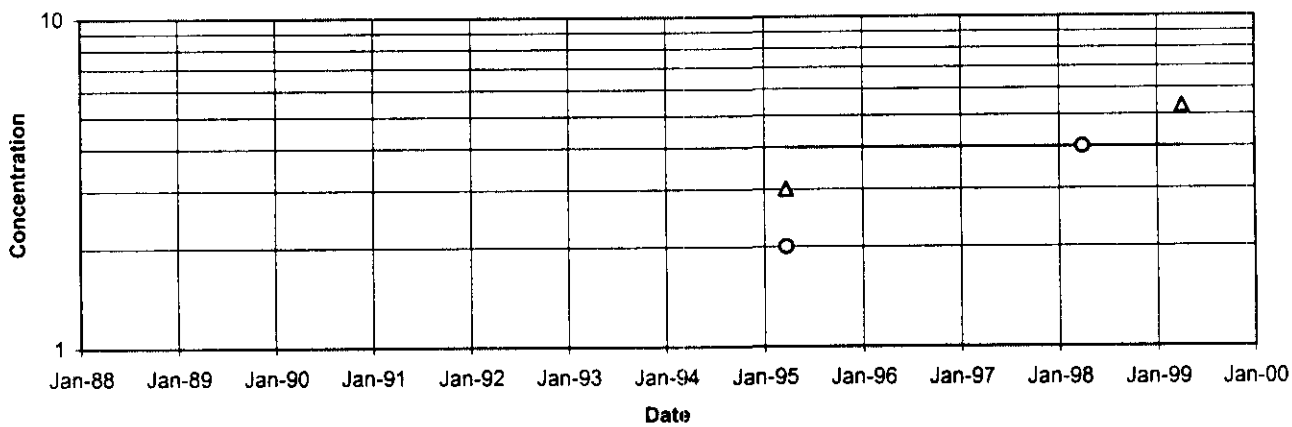
G34S



G35D



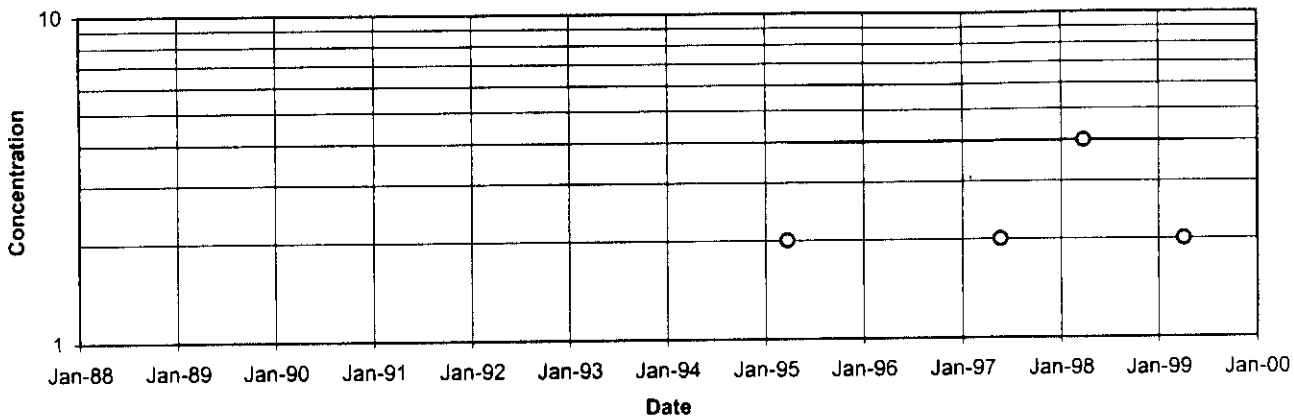
G35S



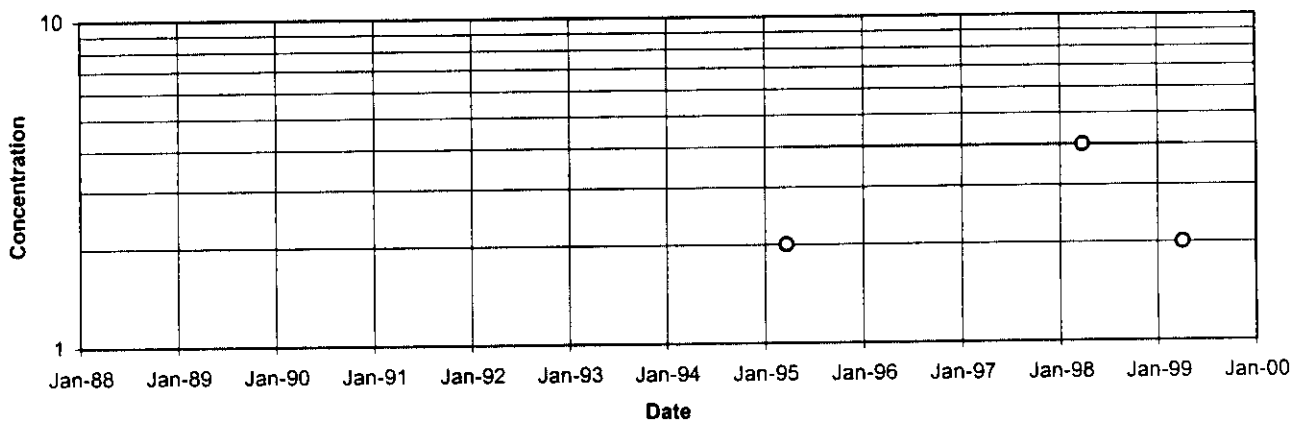
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

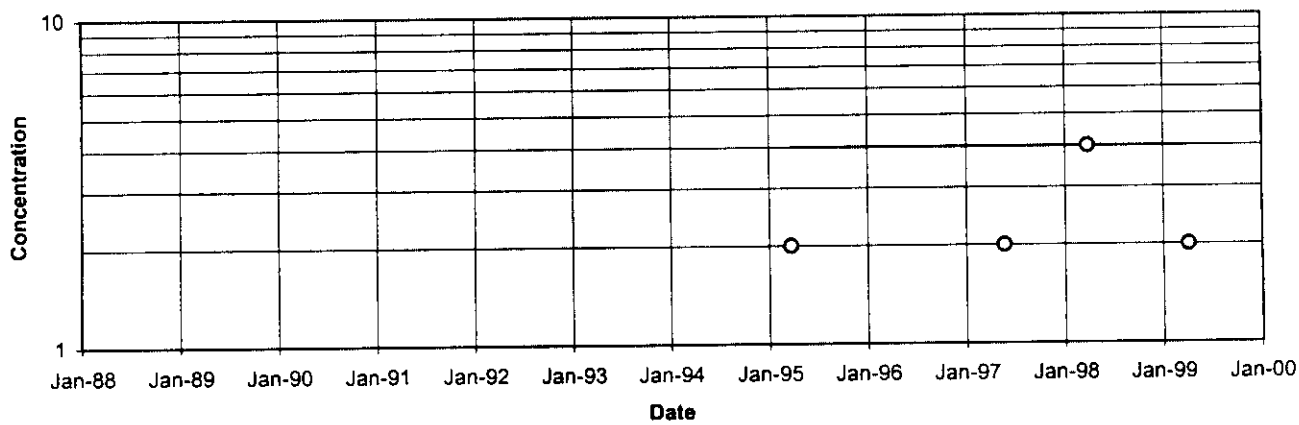
G36



G37D



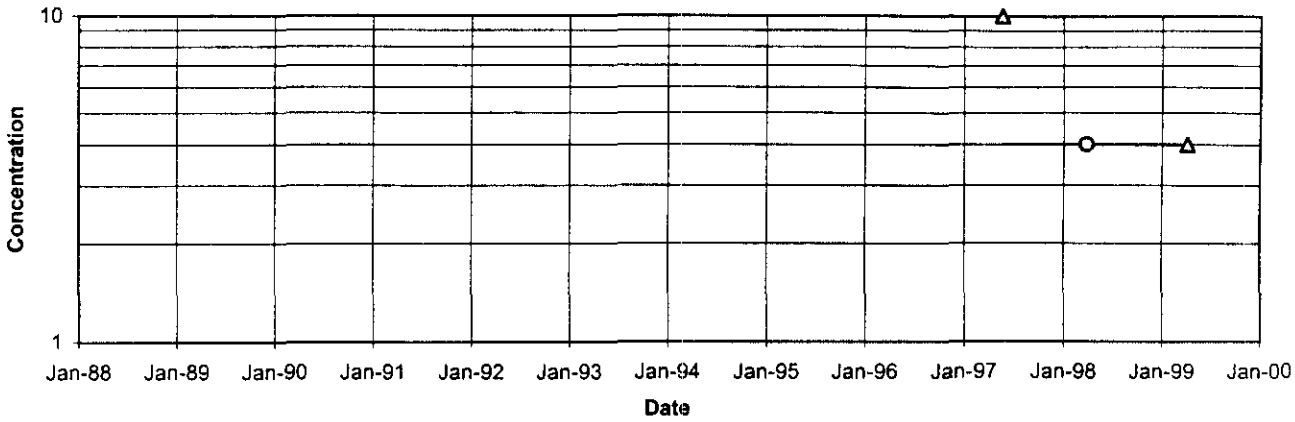
G37S



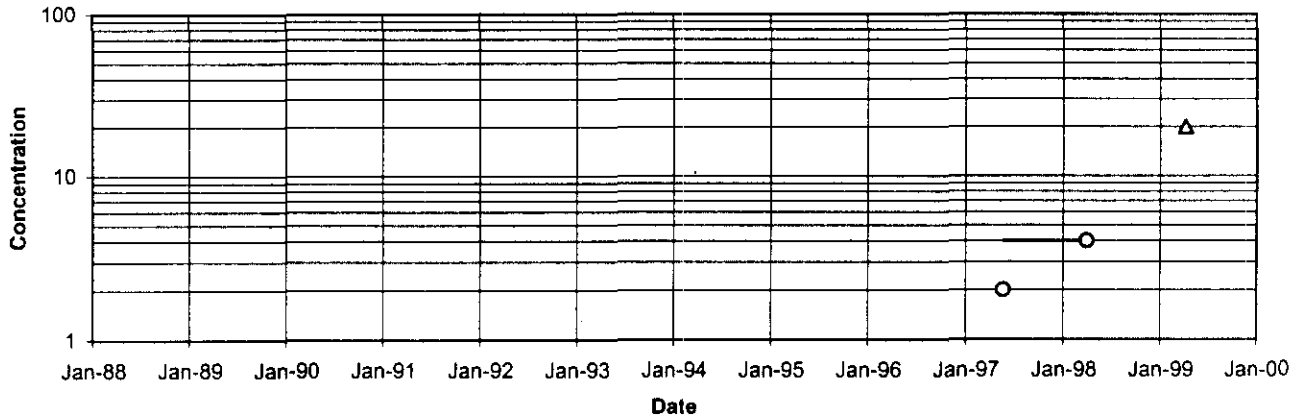
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

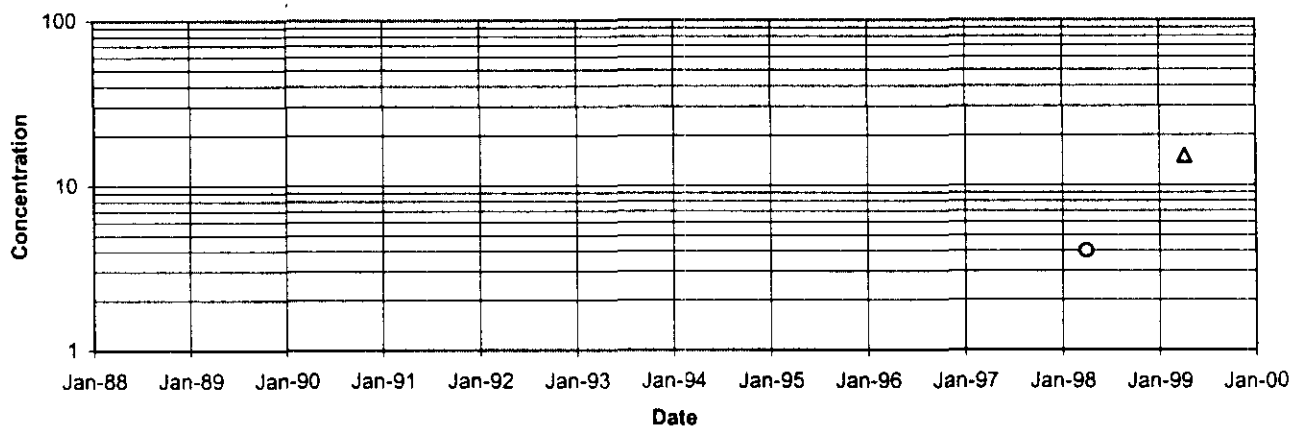
G38



G39



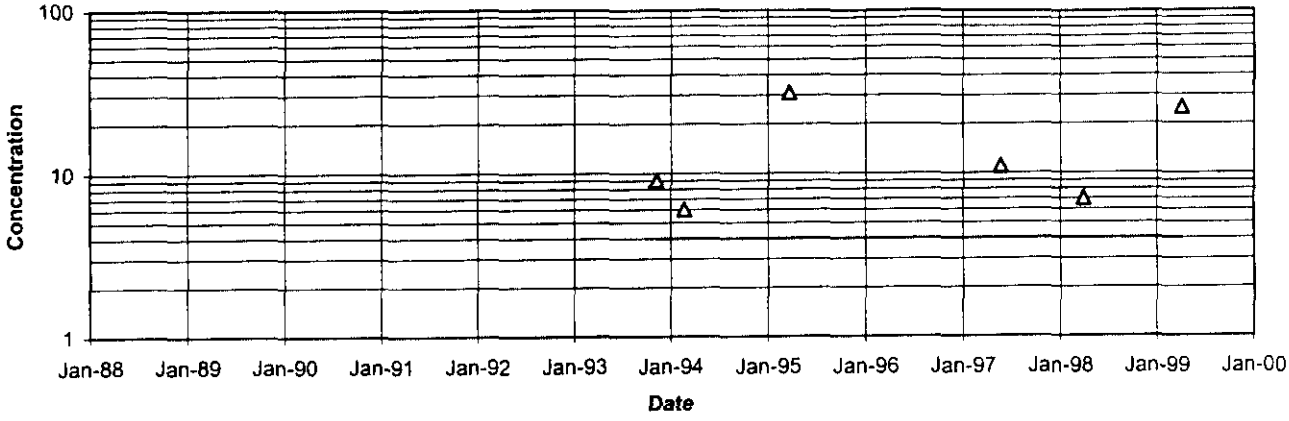
G40



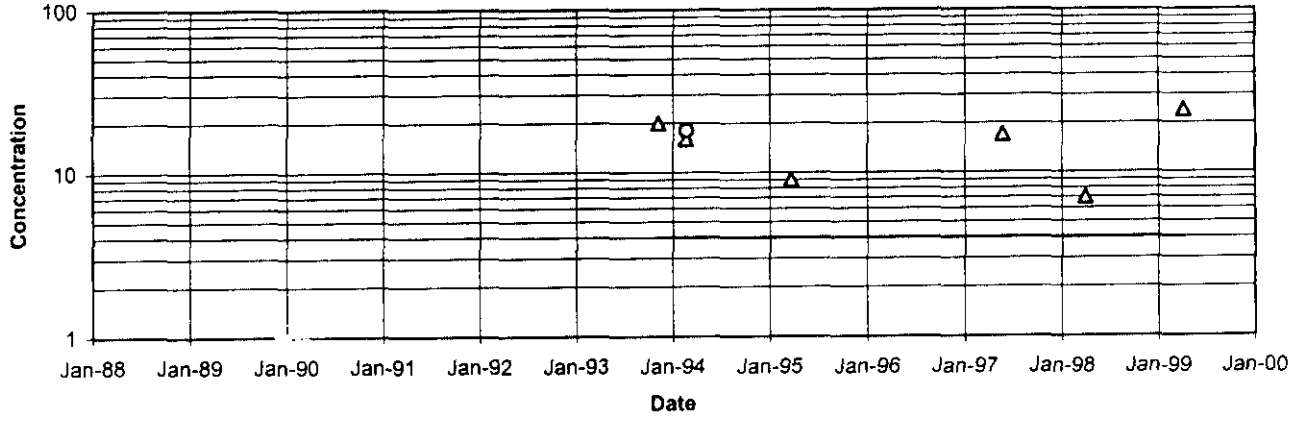
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

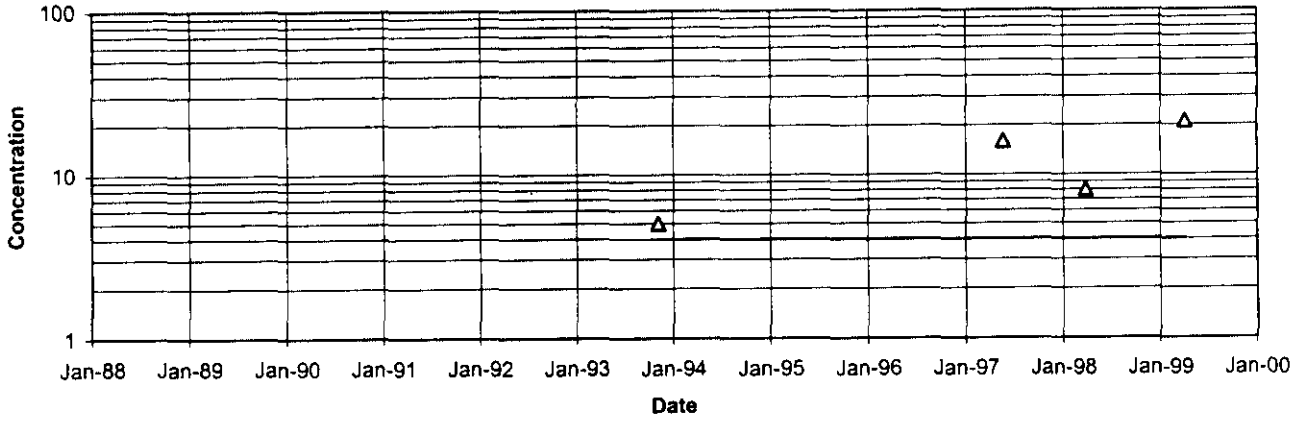
MW106



P1



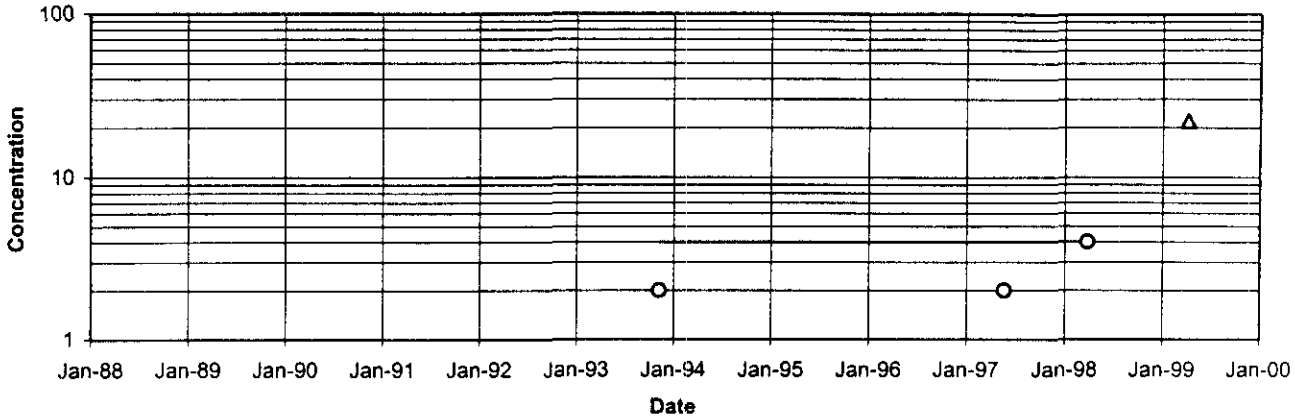
P3R



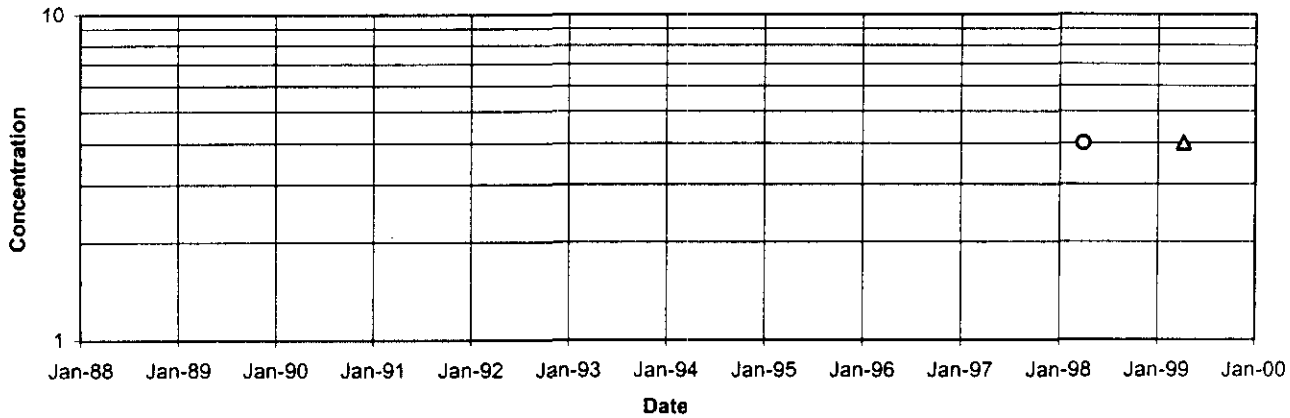
Biological Oxygen Demand (BOD) (mg/L)

AGQS Δ Concentration O NonDetect

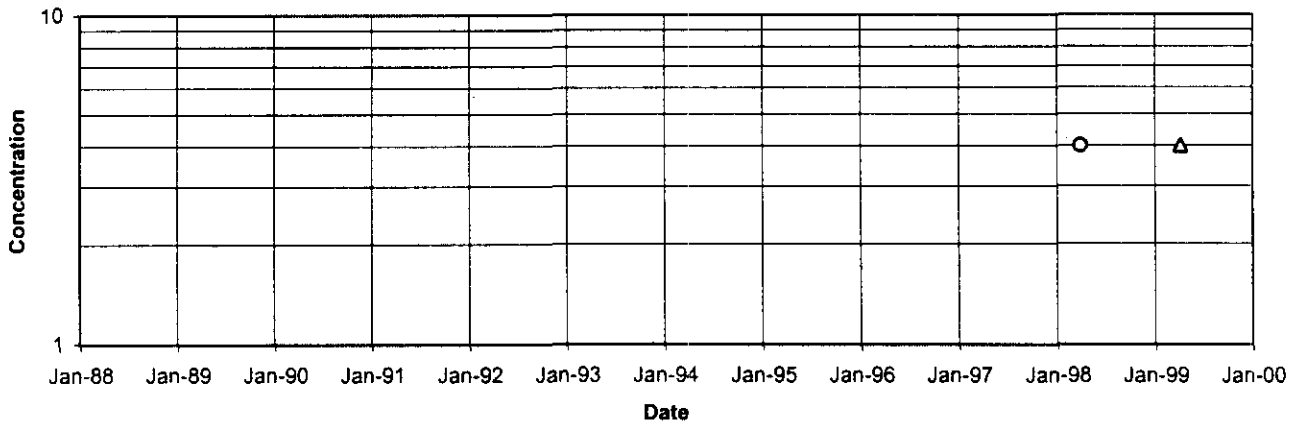
P4R



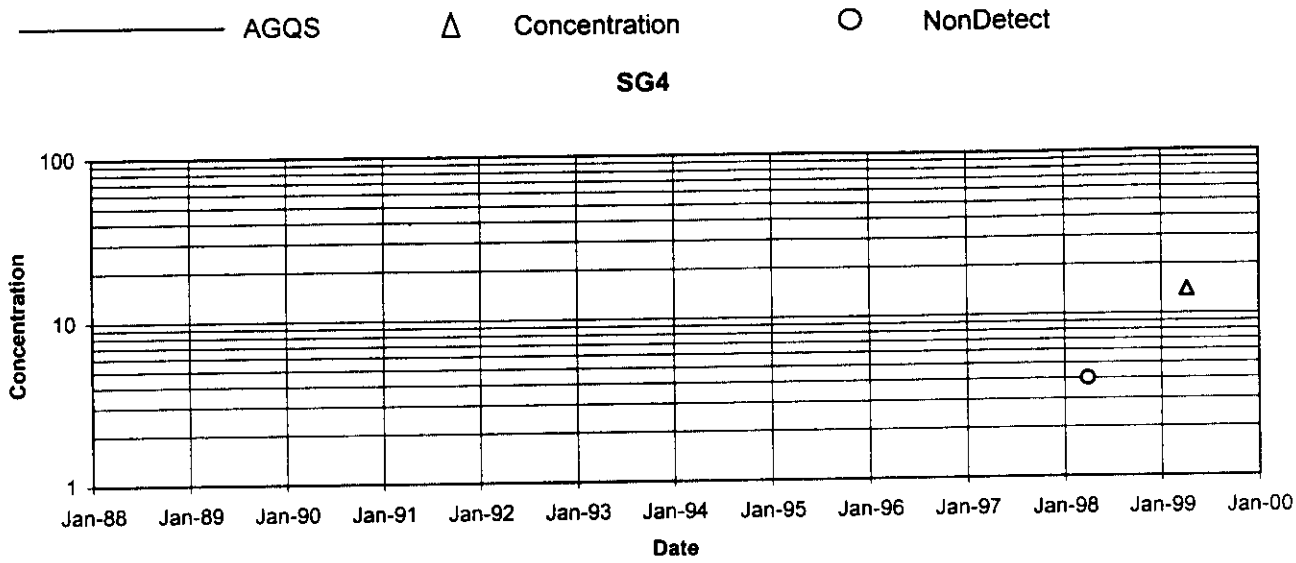
SG1



SG3



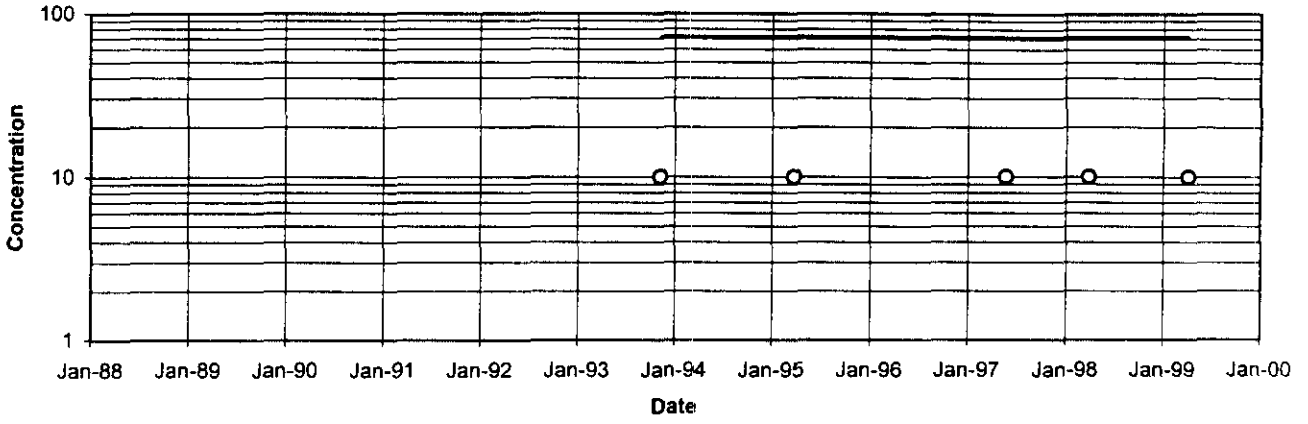
Biological Oxygen Demand (BOD) (mg/L)



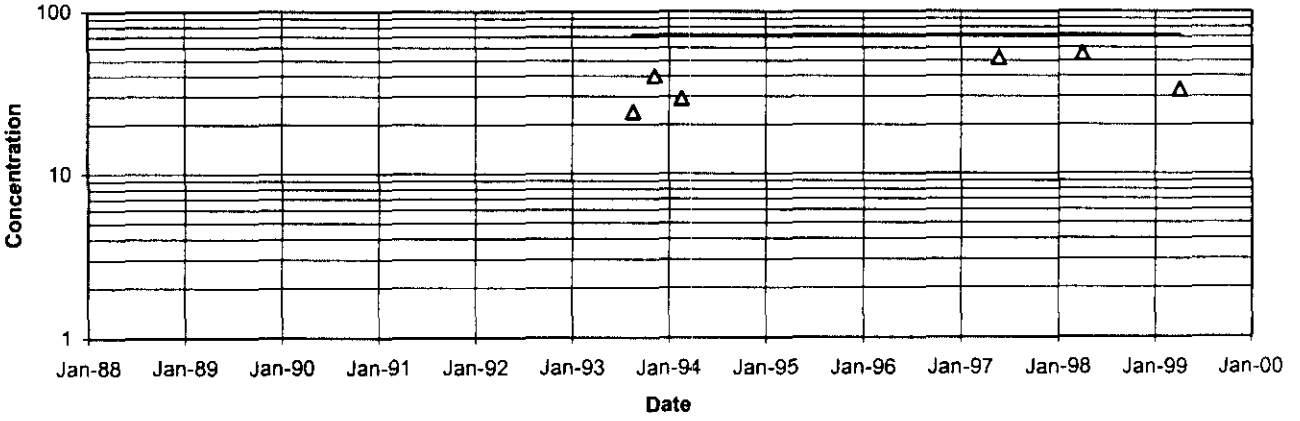
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

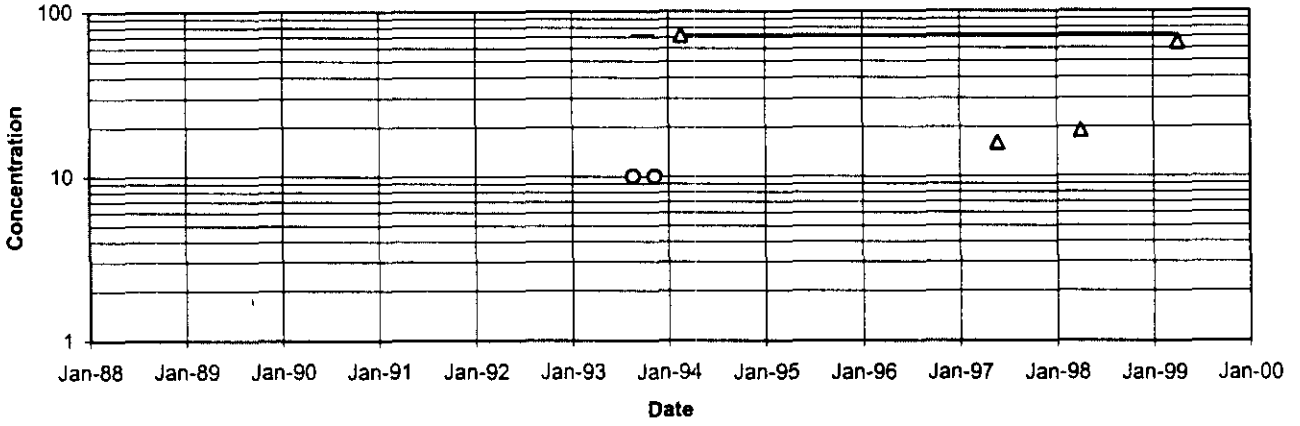
B15R



G109



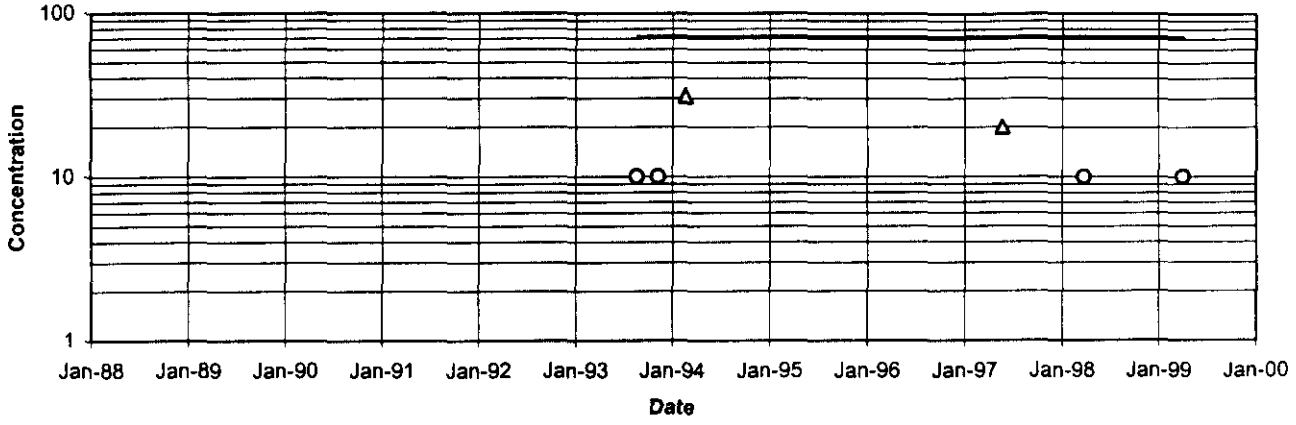
G109A



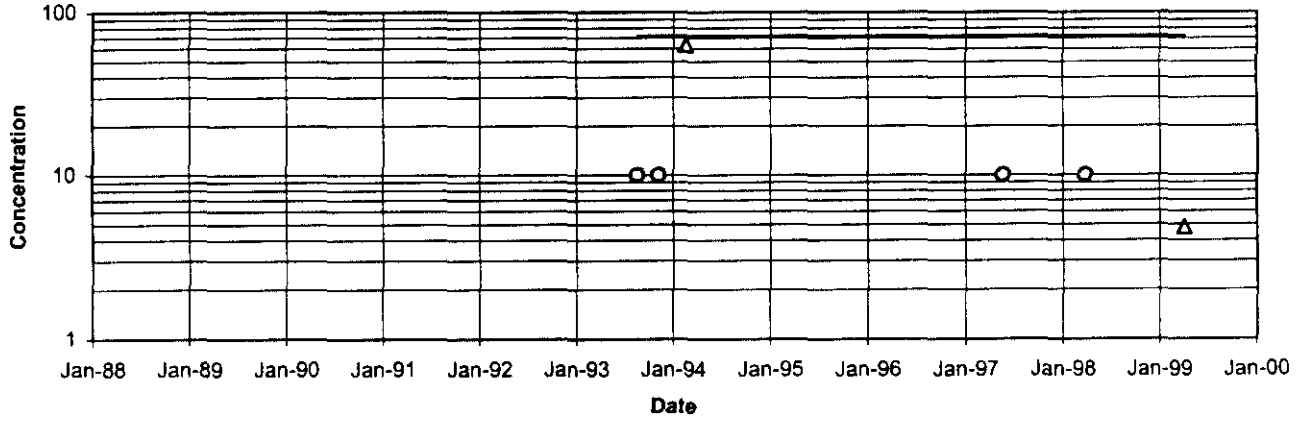
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

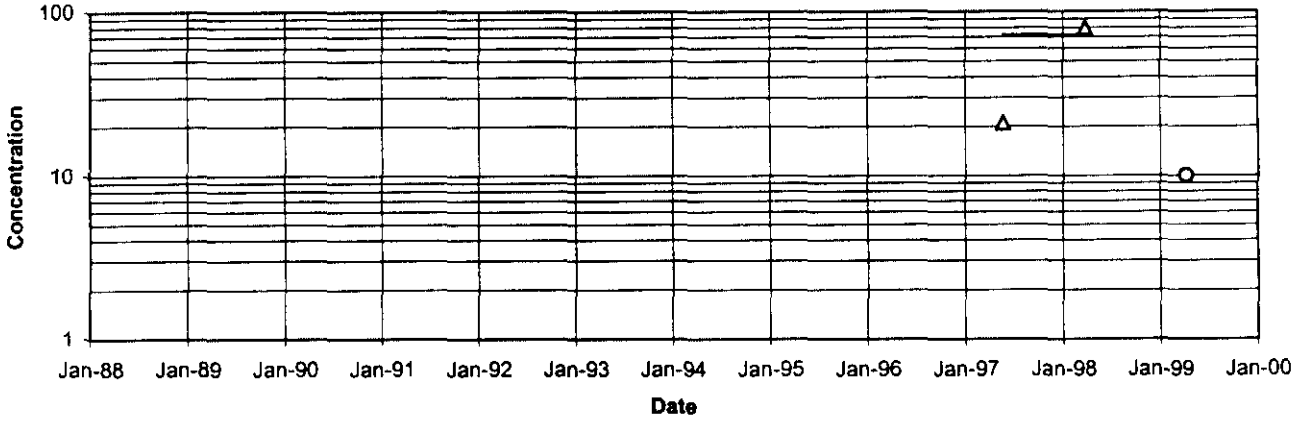
G113



G113A



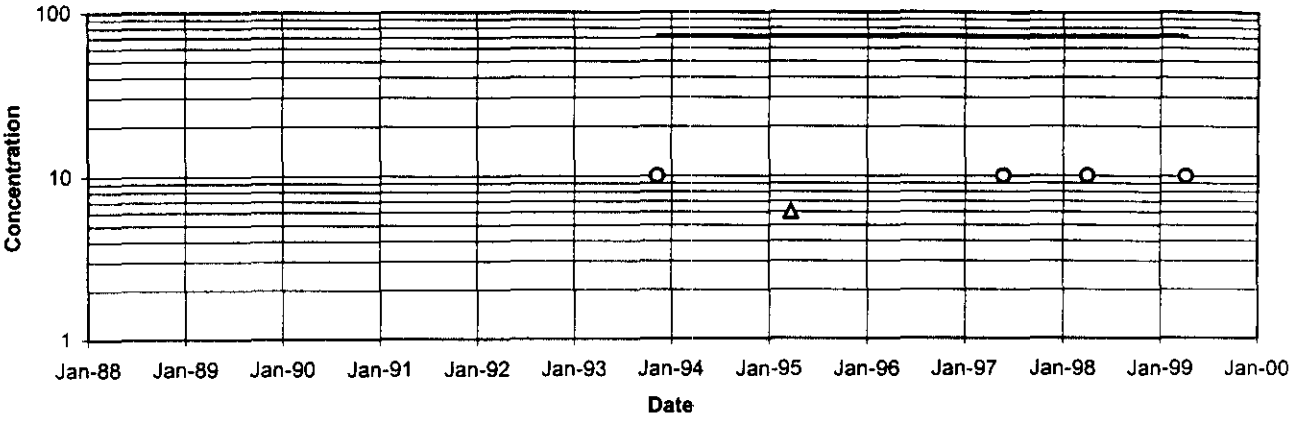
G114



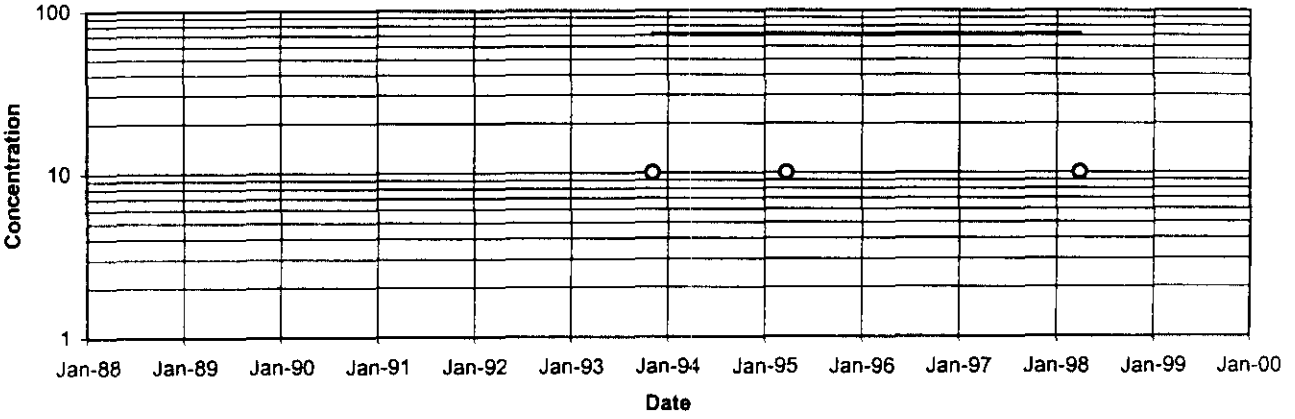
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

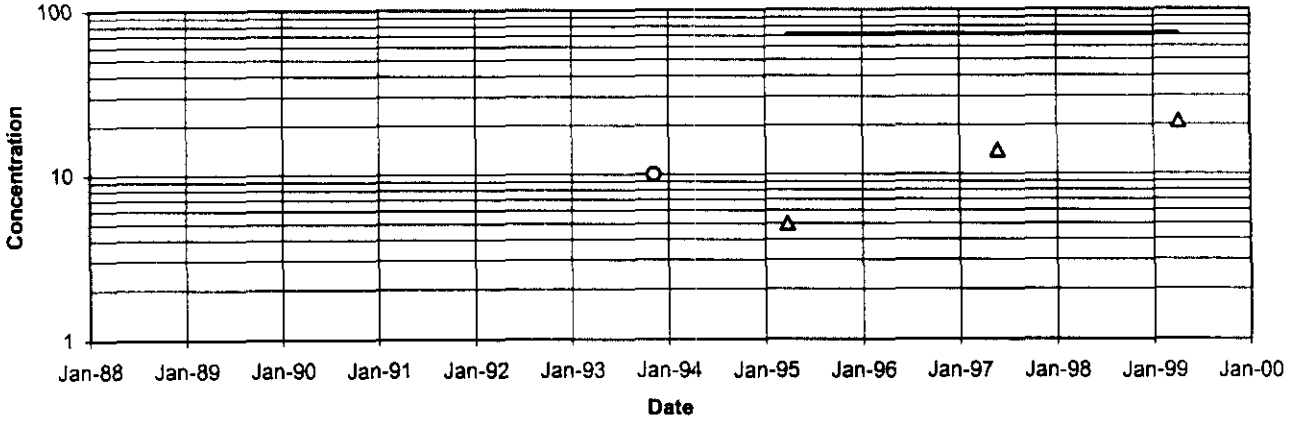
G115



G116



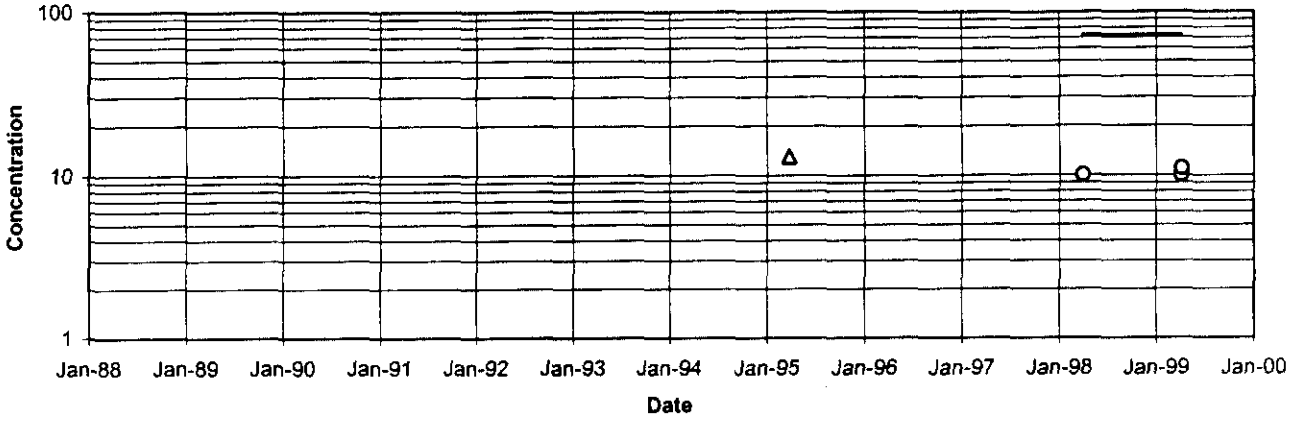
G116A



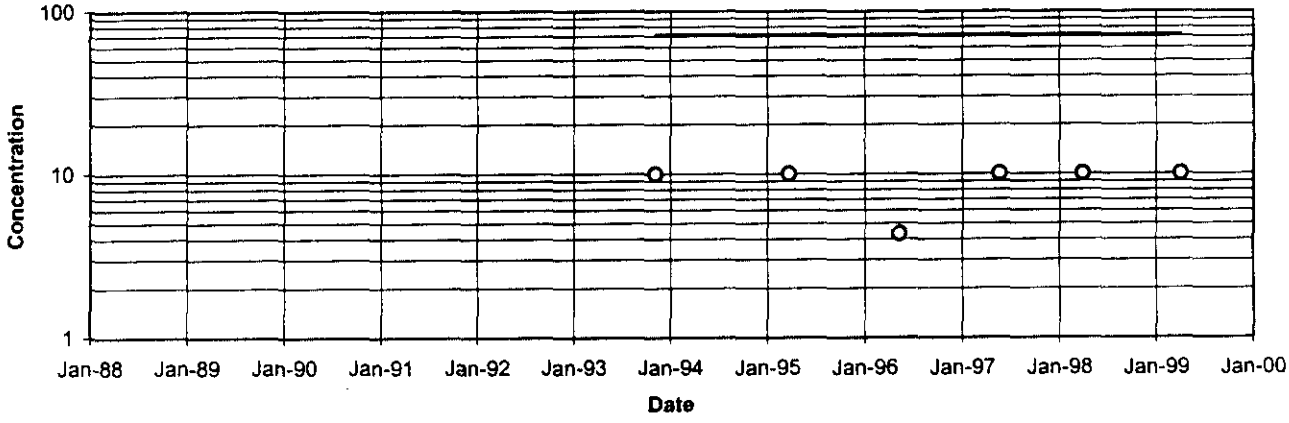
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

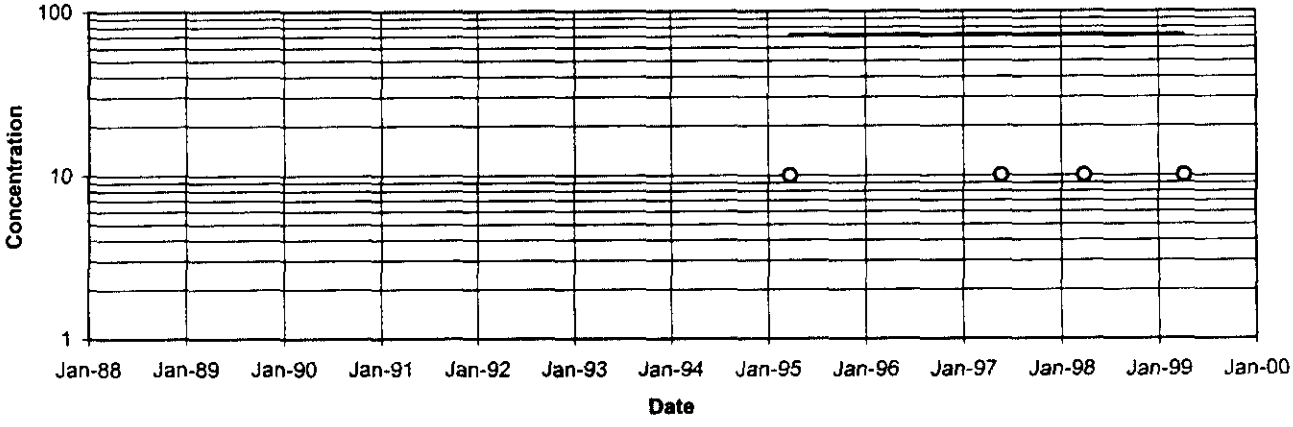
G116D



G117



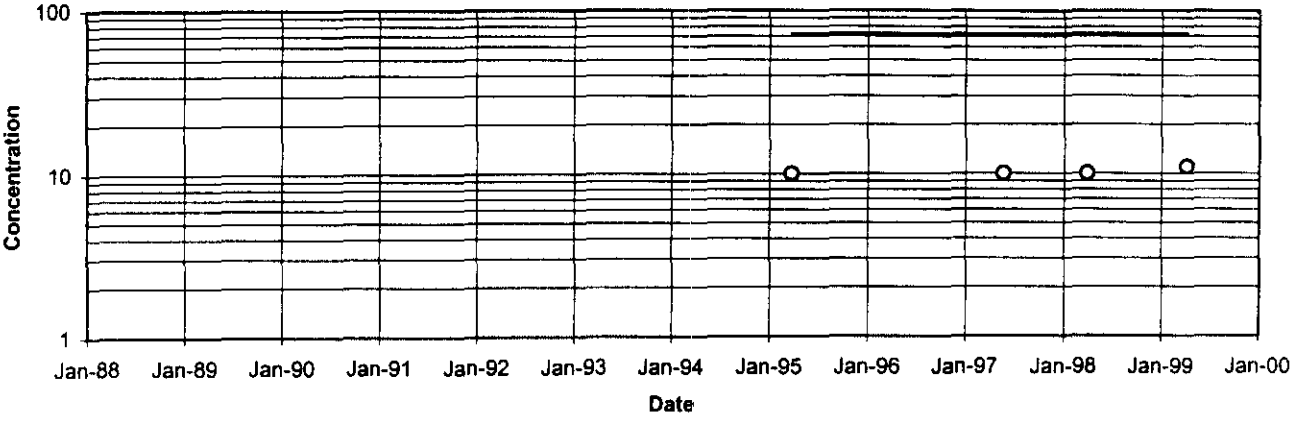
G118A



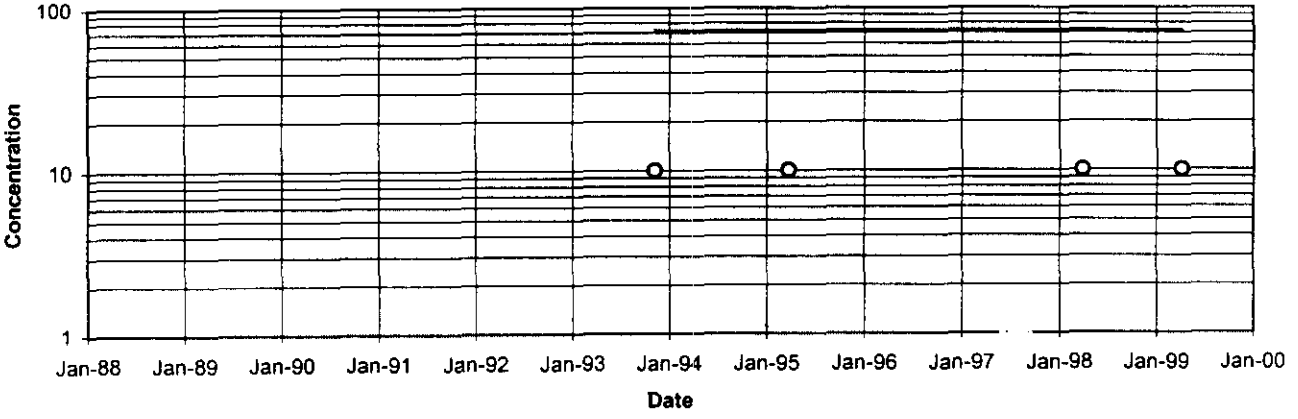
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

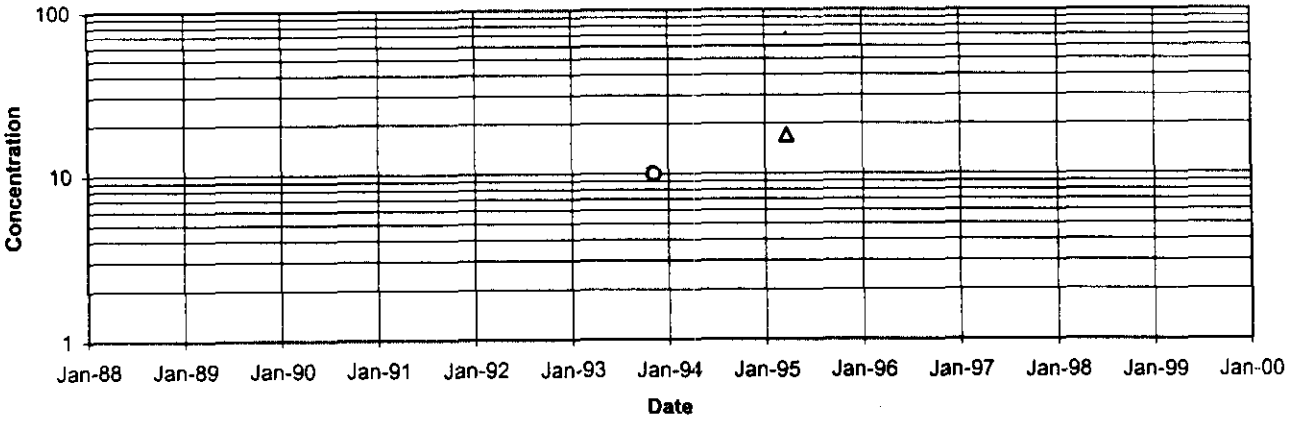
G118R



G119



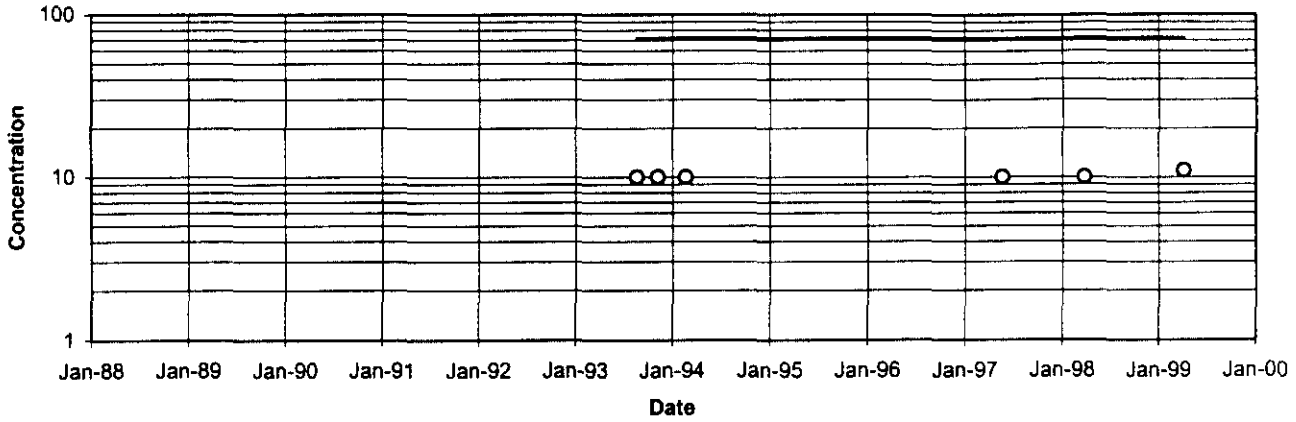
G119A



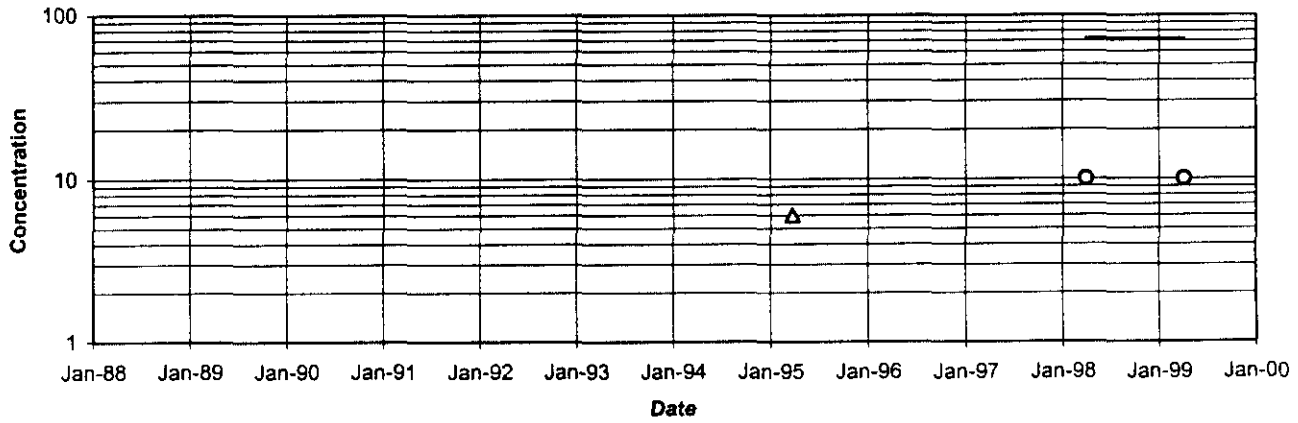
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

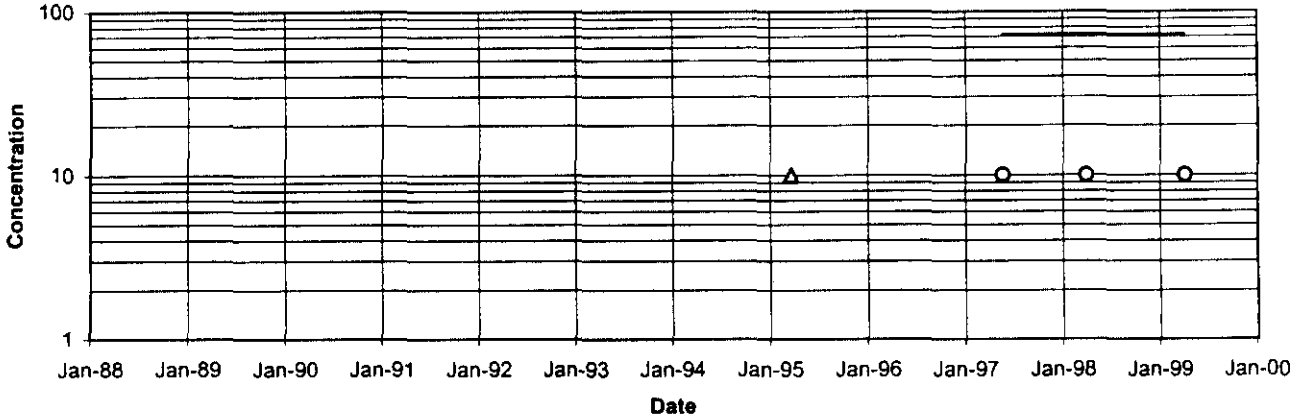
G120B



G130



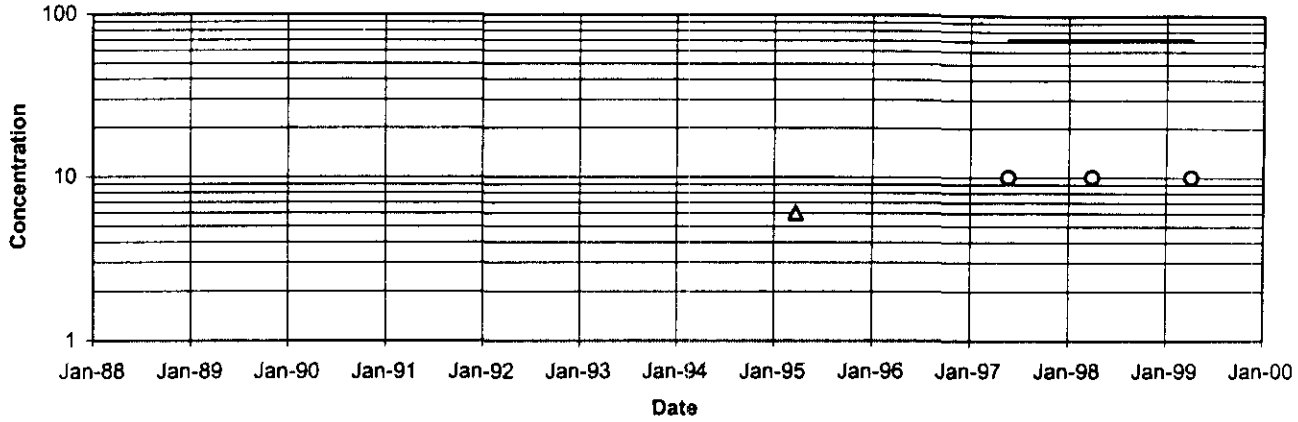
G132



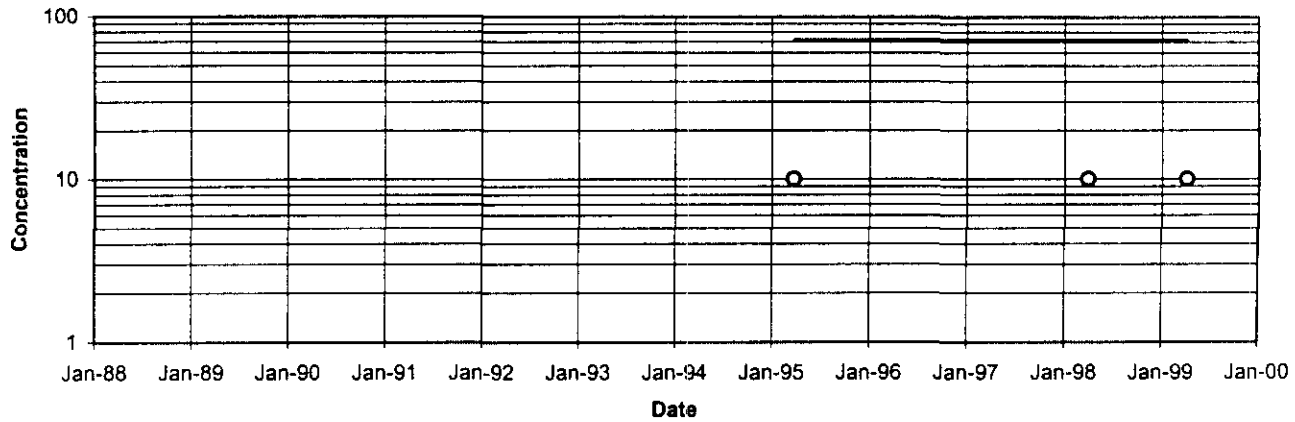
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

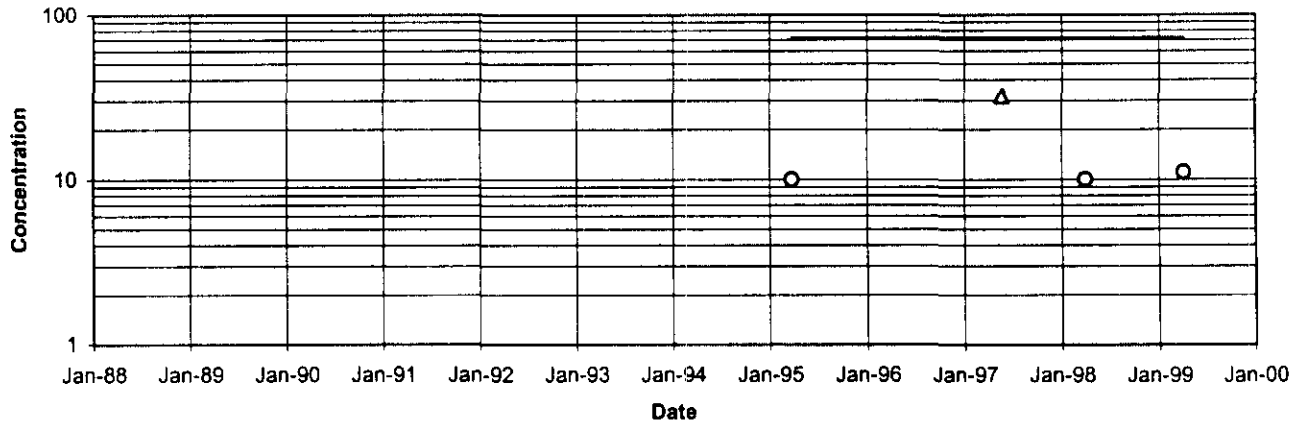
G33D



G33S



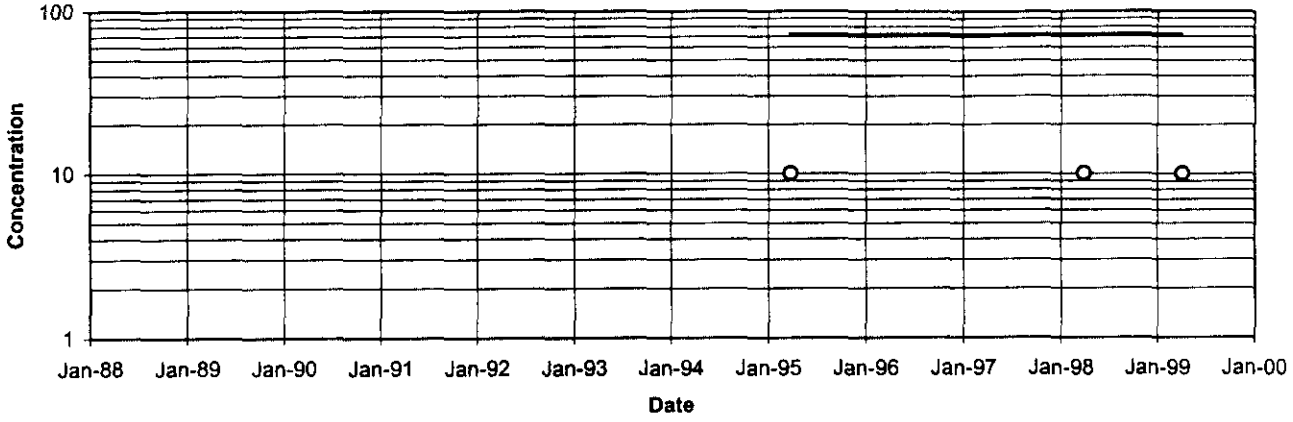
G34D



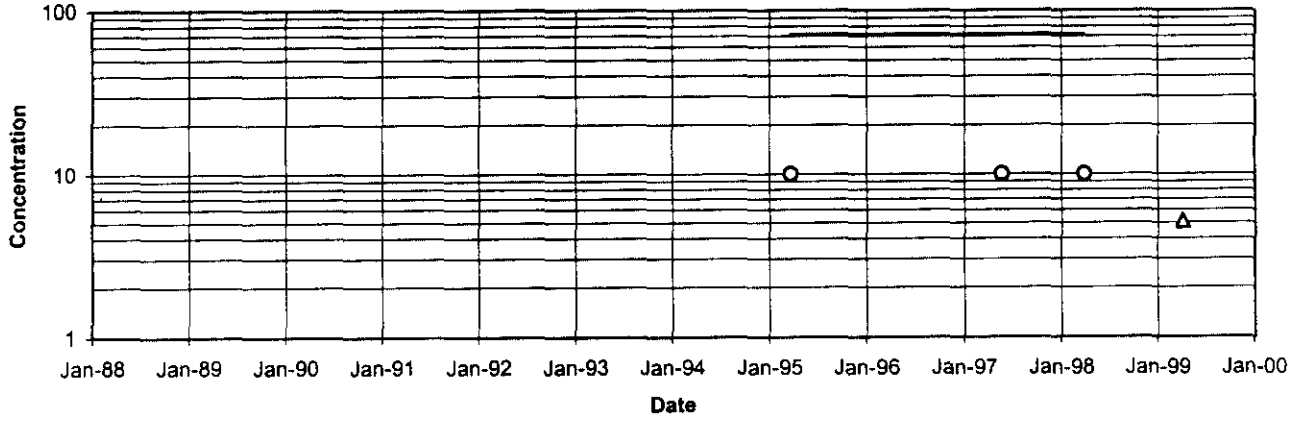
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

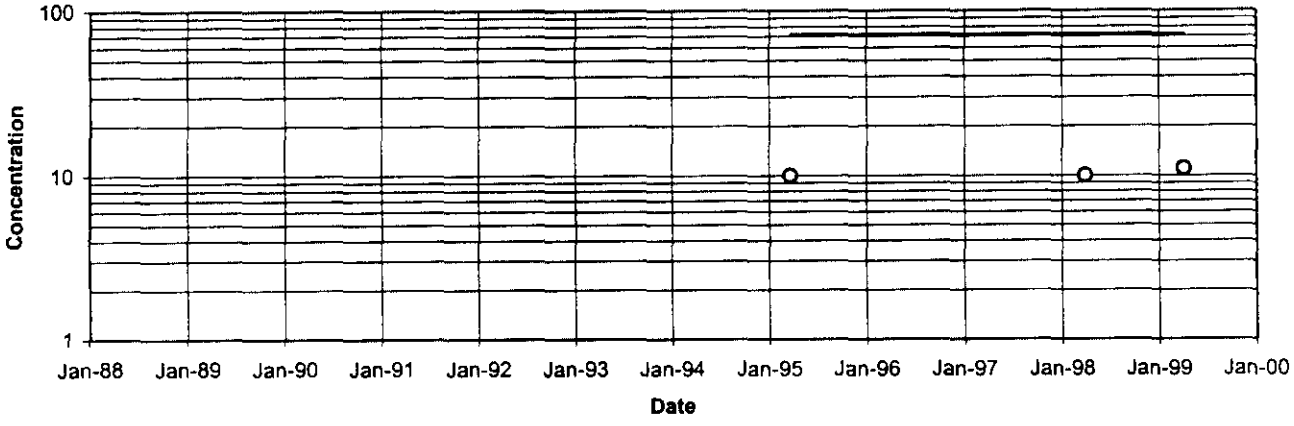
G34S



G35D



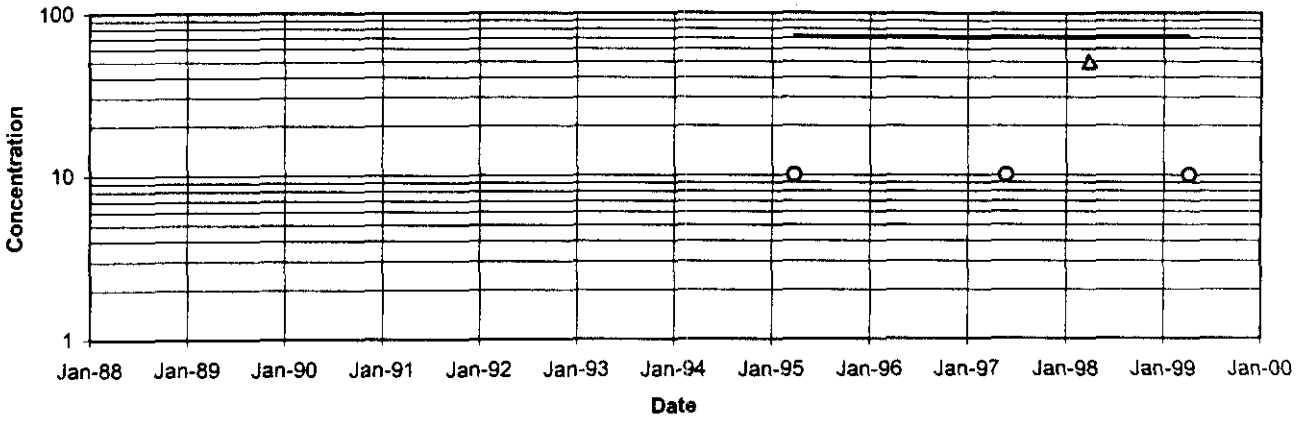
G35S



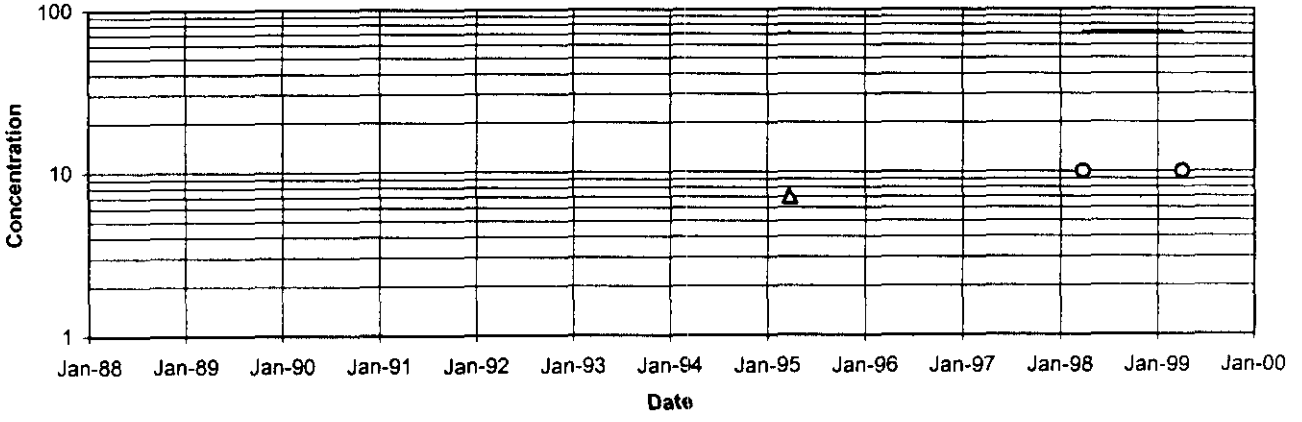
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

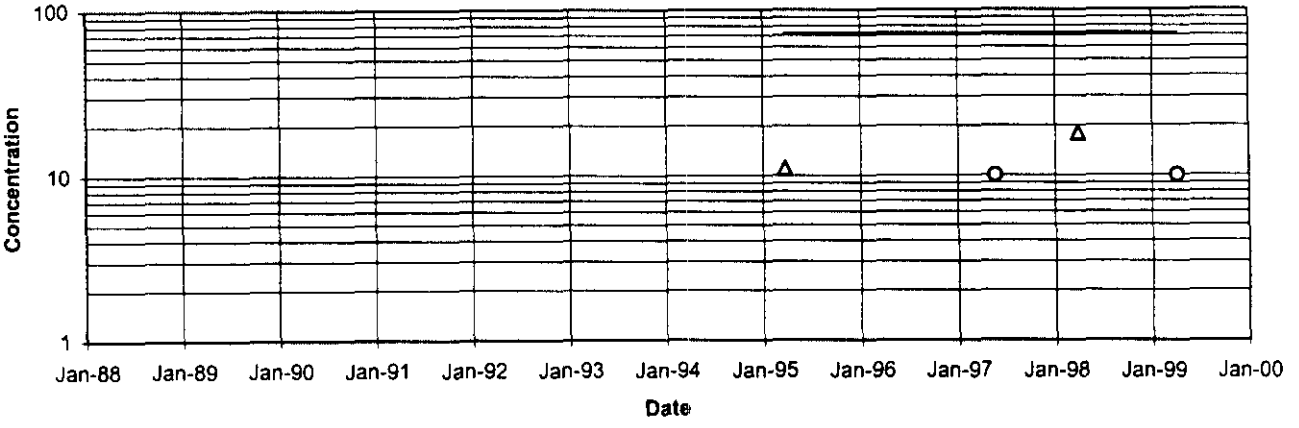
G36



G37D



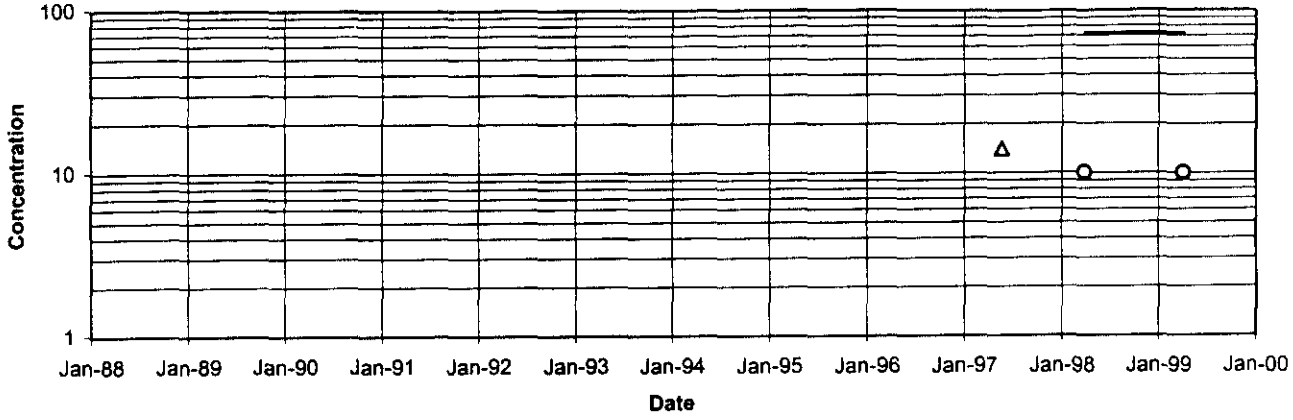
G37S



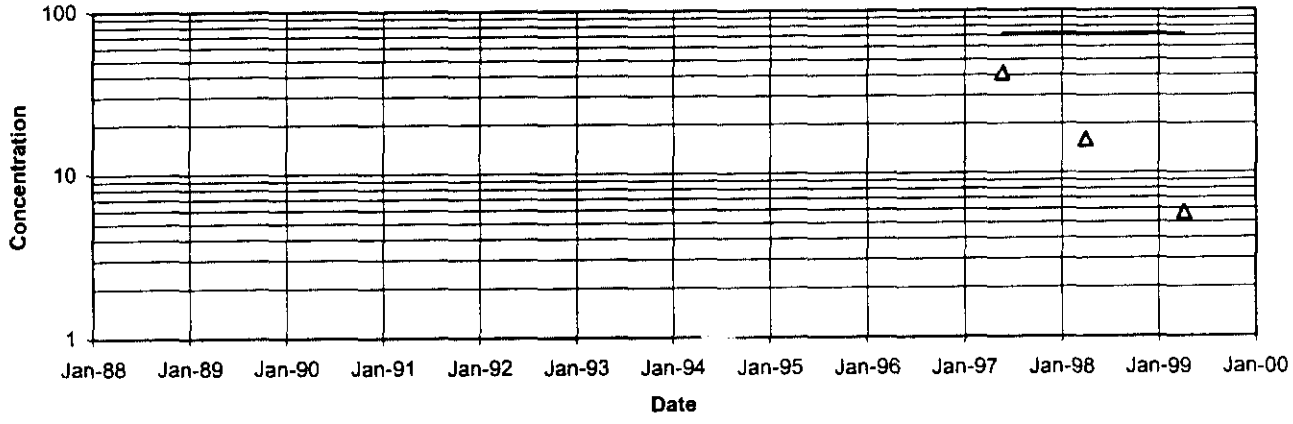
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

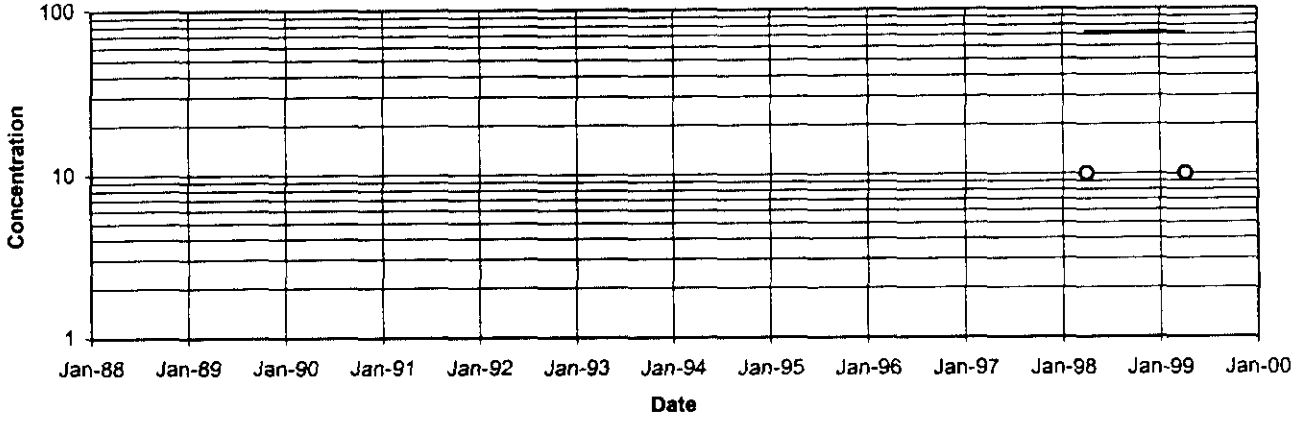
G38



G39



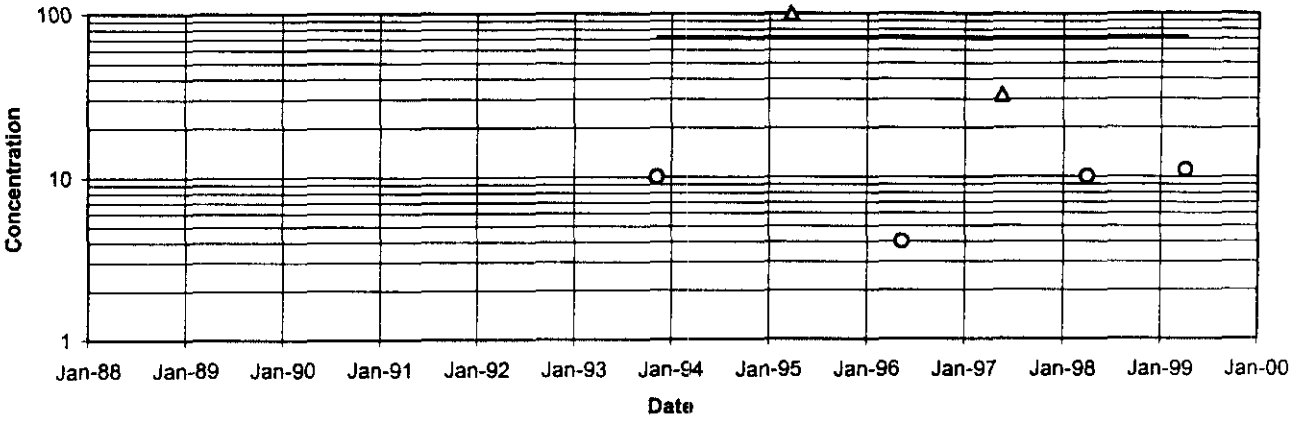
G40



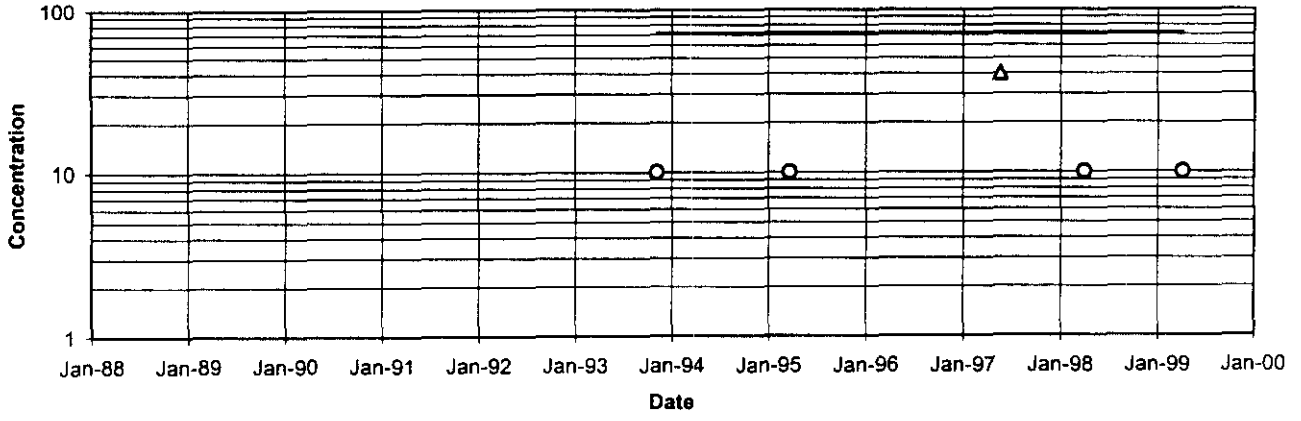
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

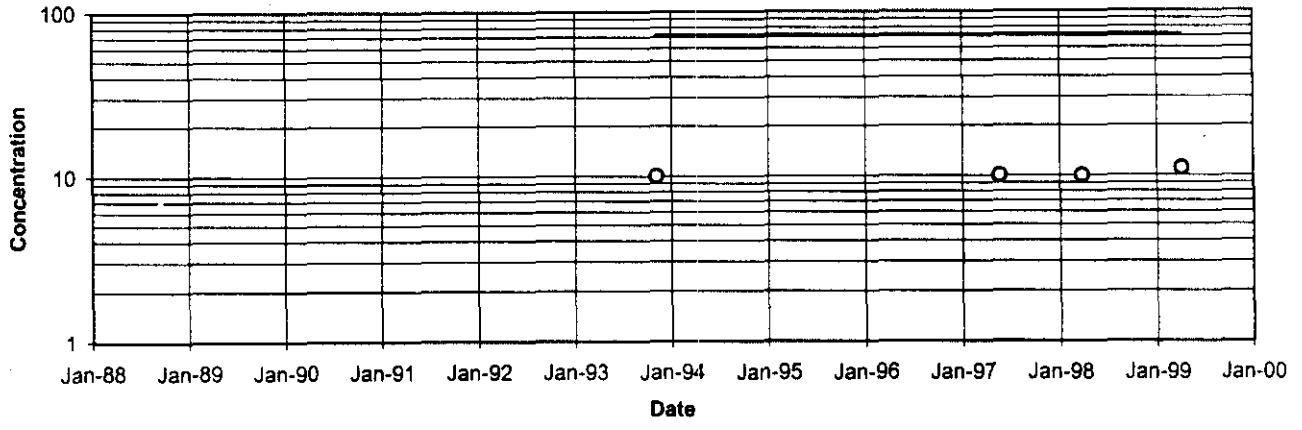
MW106



P1



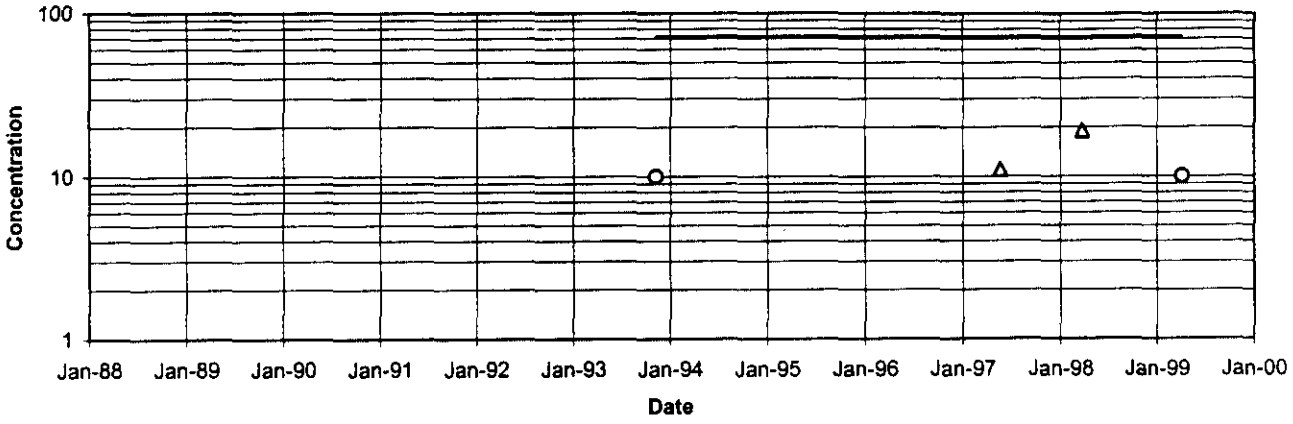
P3R



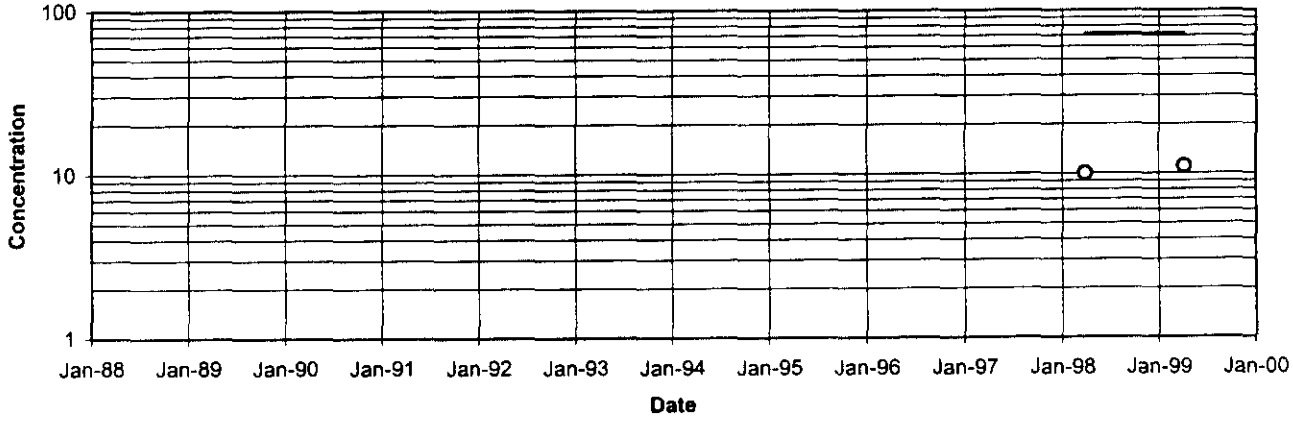
bis(2-Ethylhexyl)phthalate (ug/L)

AGQS Δ Concentration O NonDetect

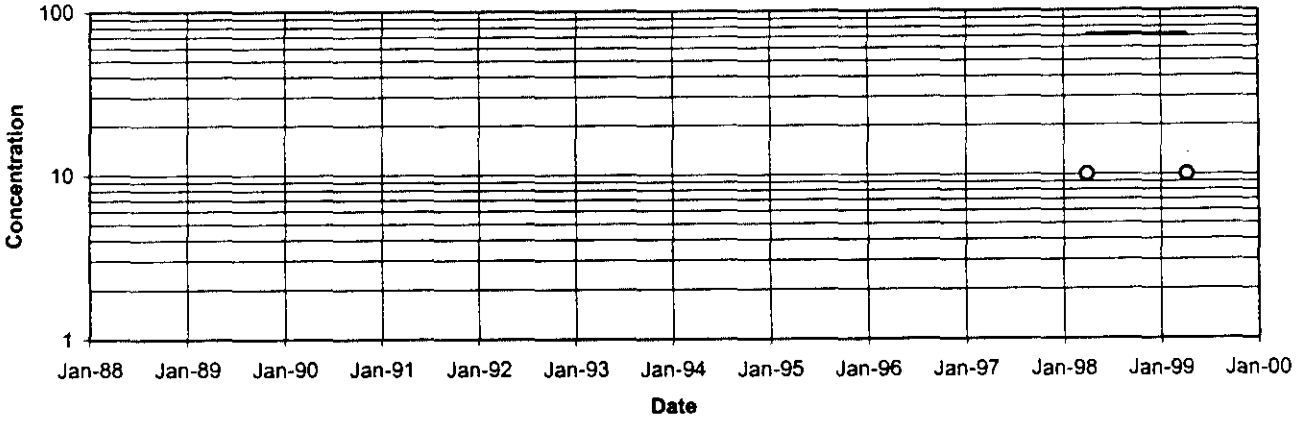
P4R



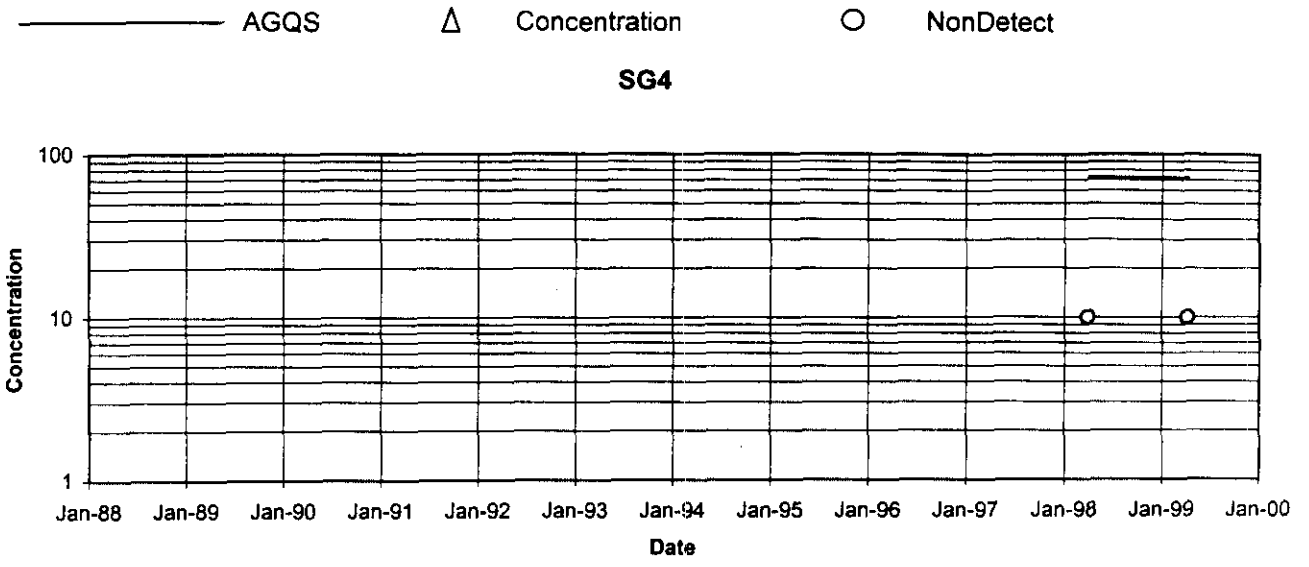
SG1



SG3



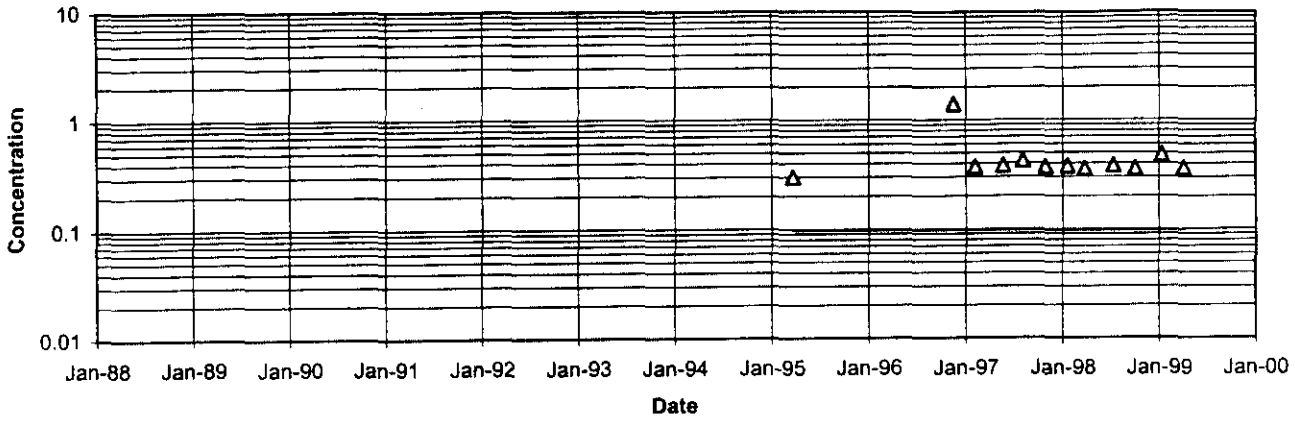
bis(2-Ethylhexyl)phthalate (ug/L)



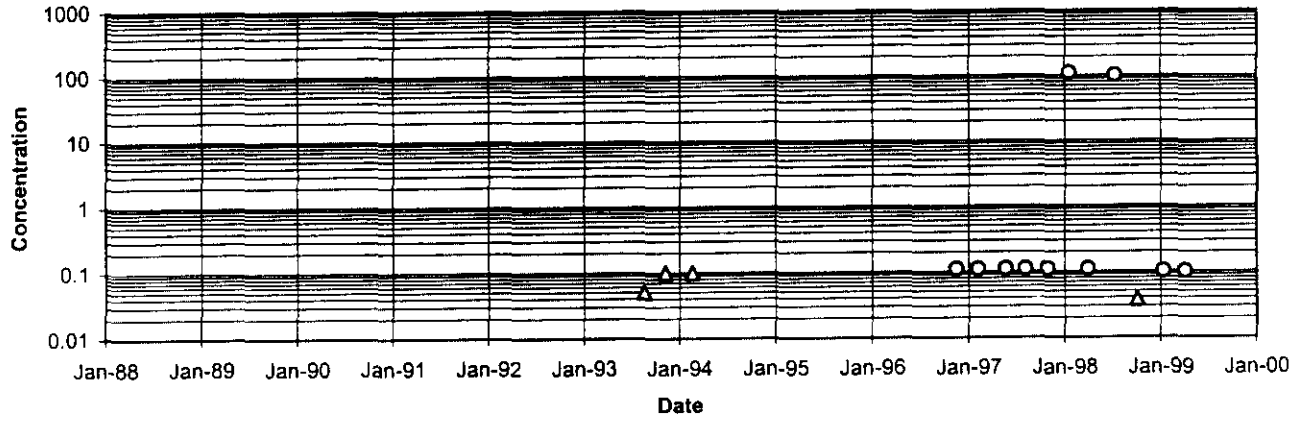
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

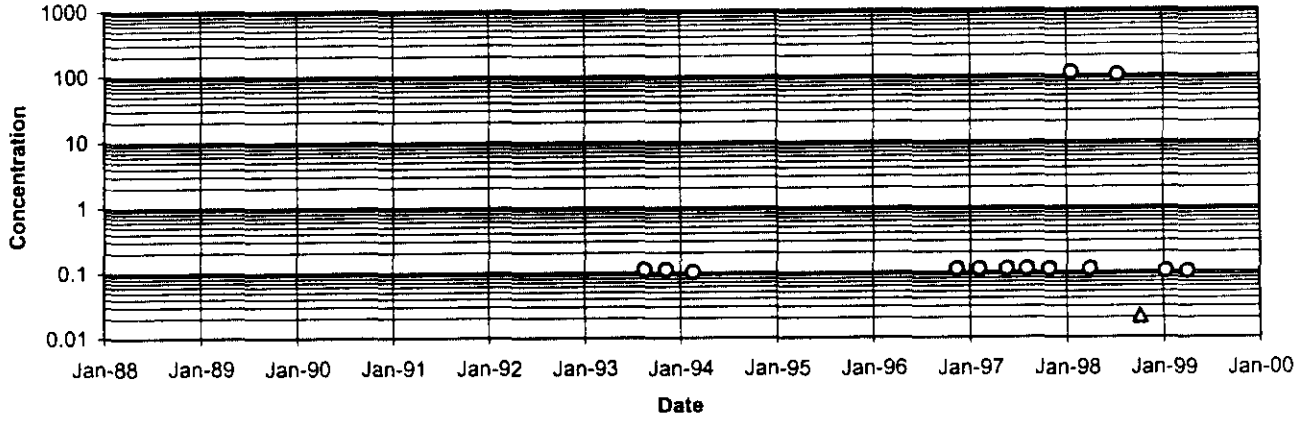
B15R



G109



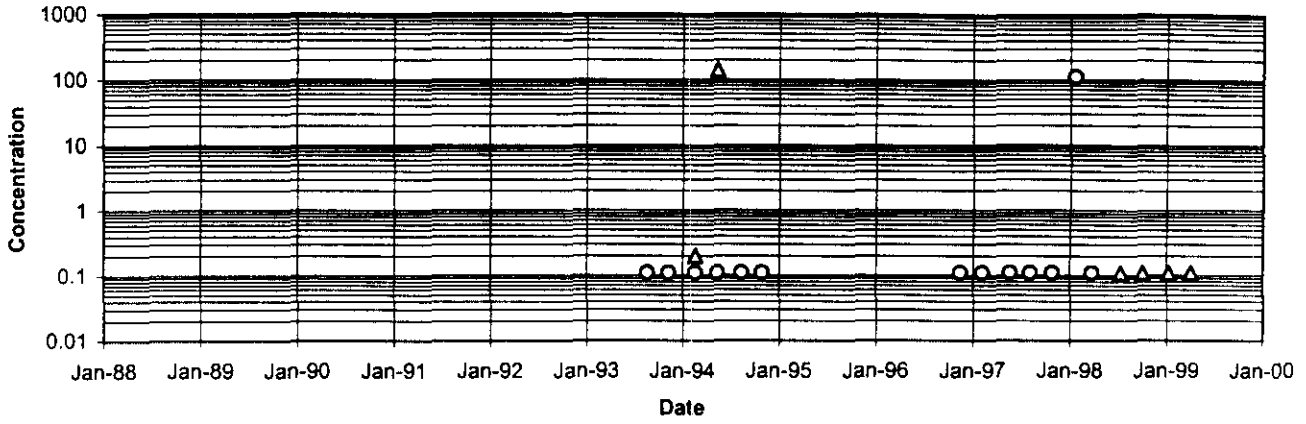
G109A



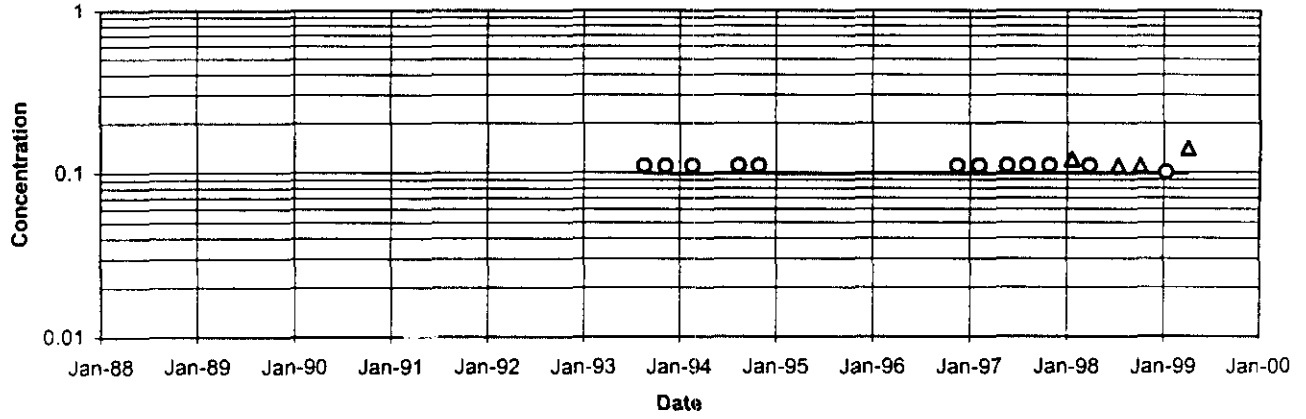
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

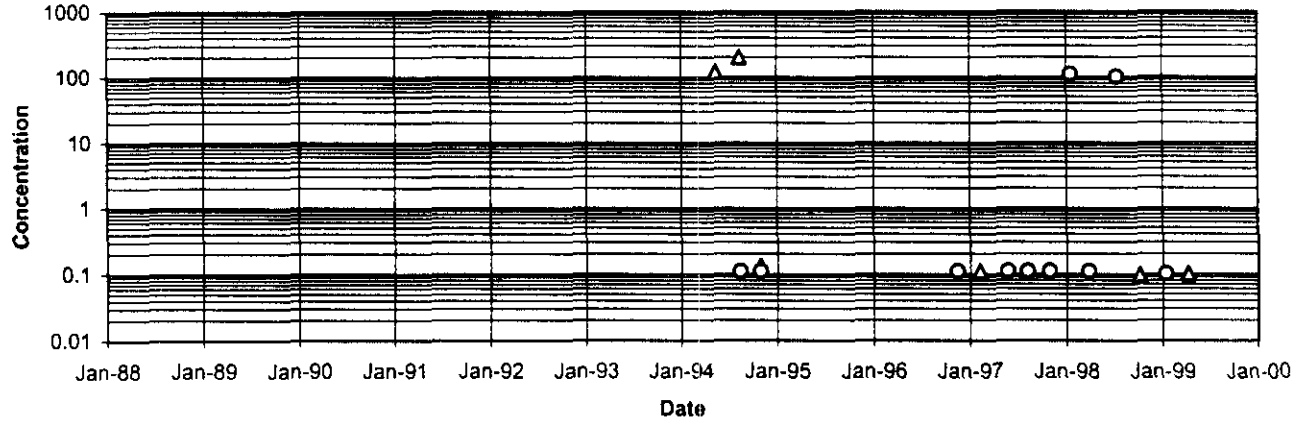
G113



G113A



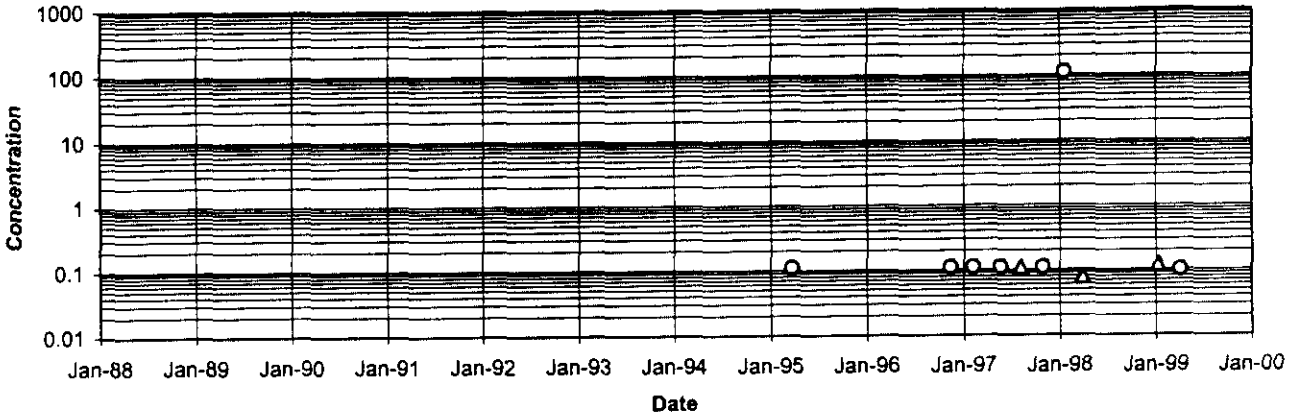
G114



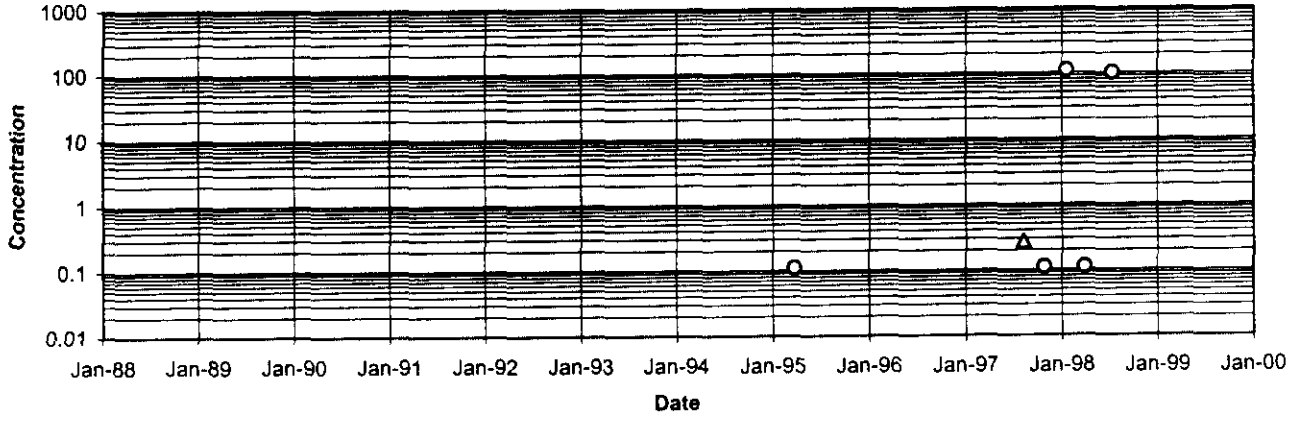
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

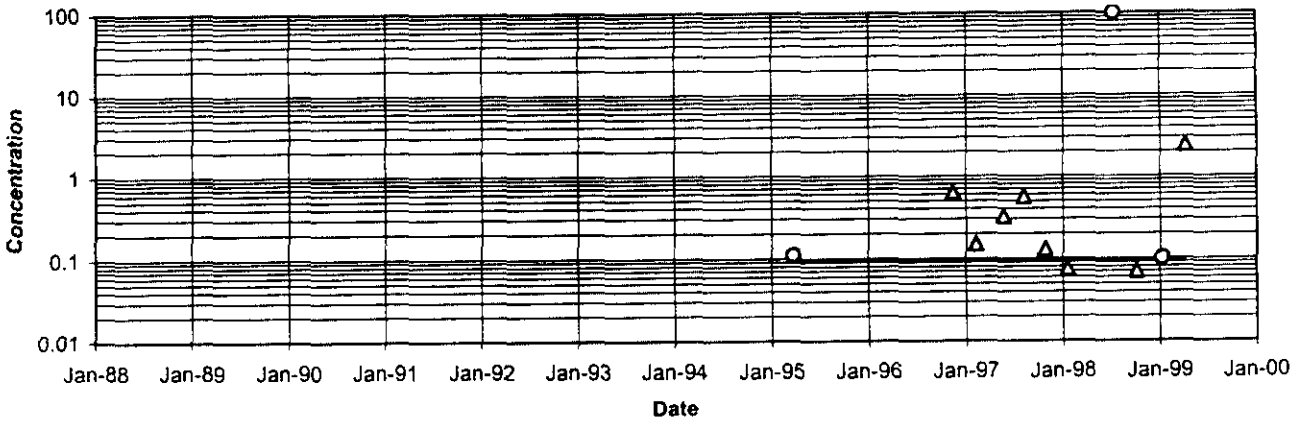
G115



G116



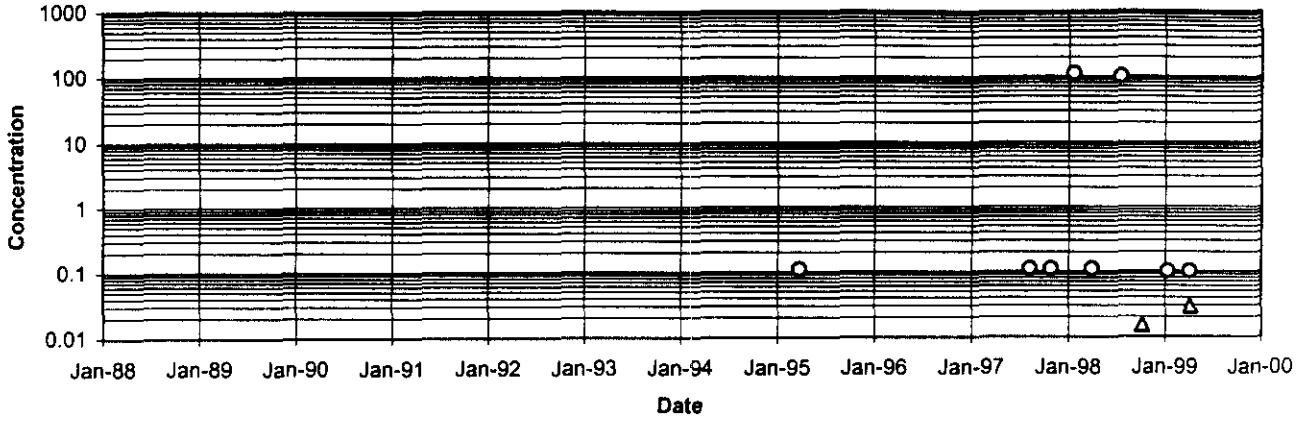
G116A



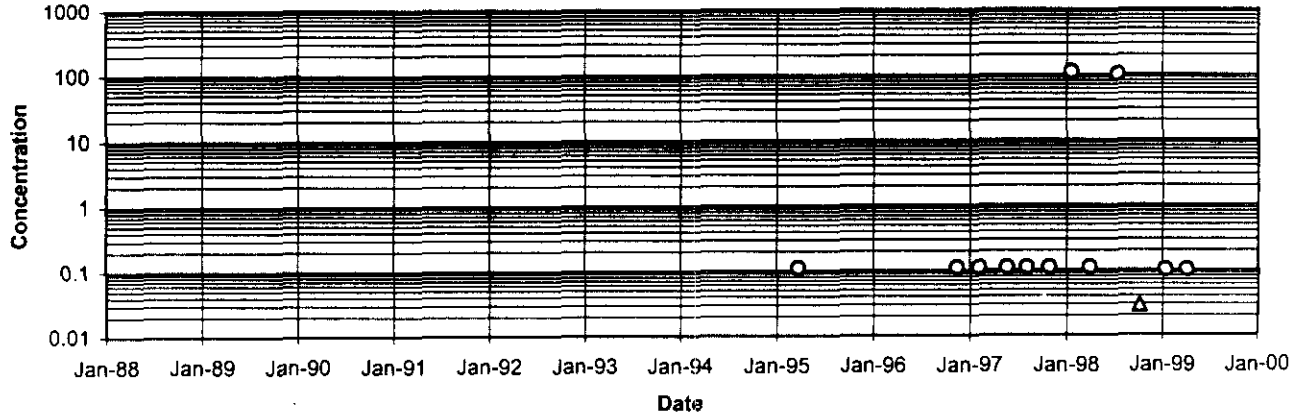
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

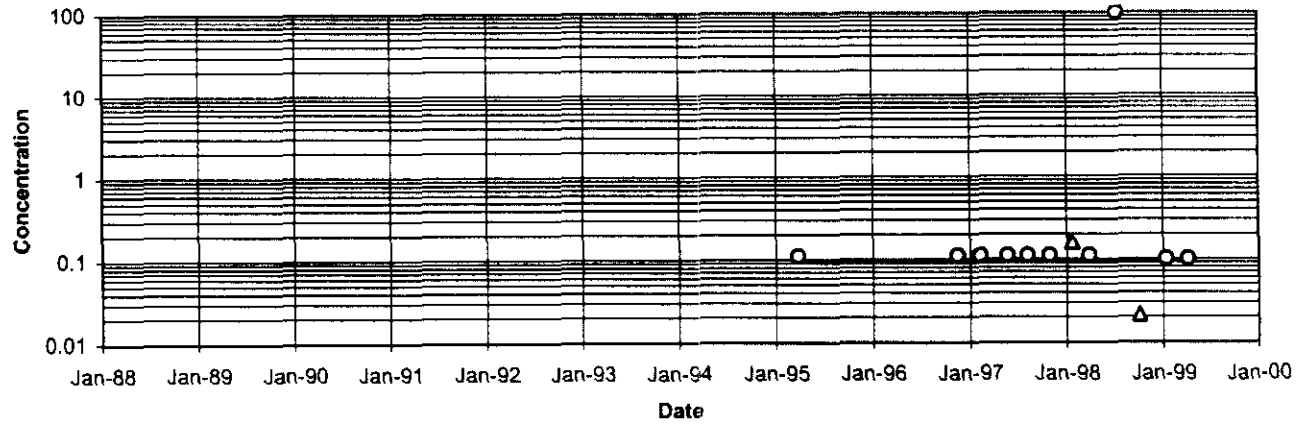
G116D



G117



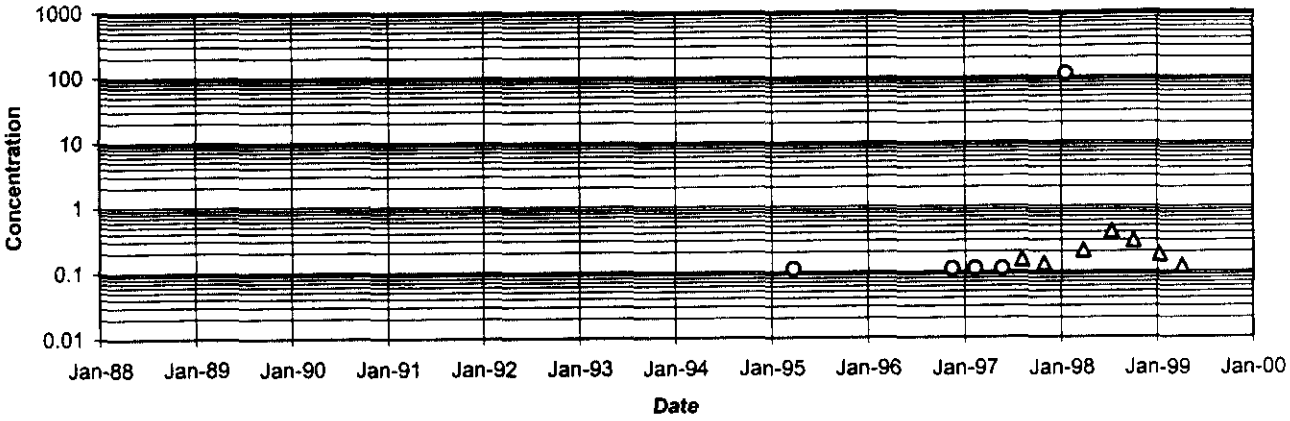
G118A



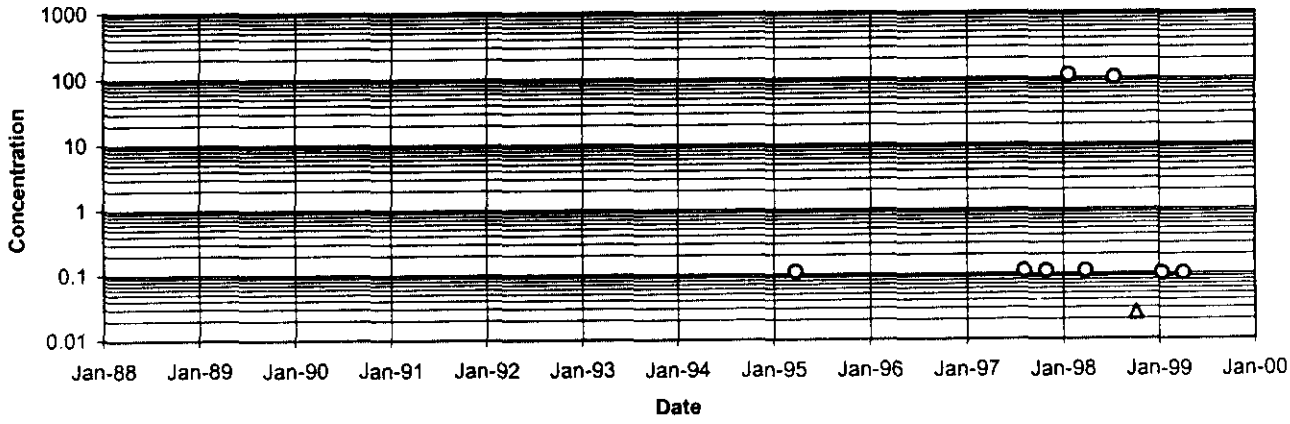
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

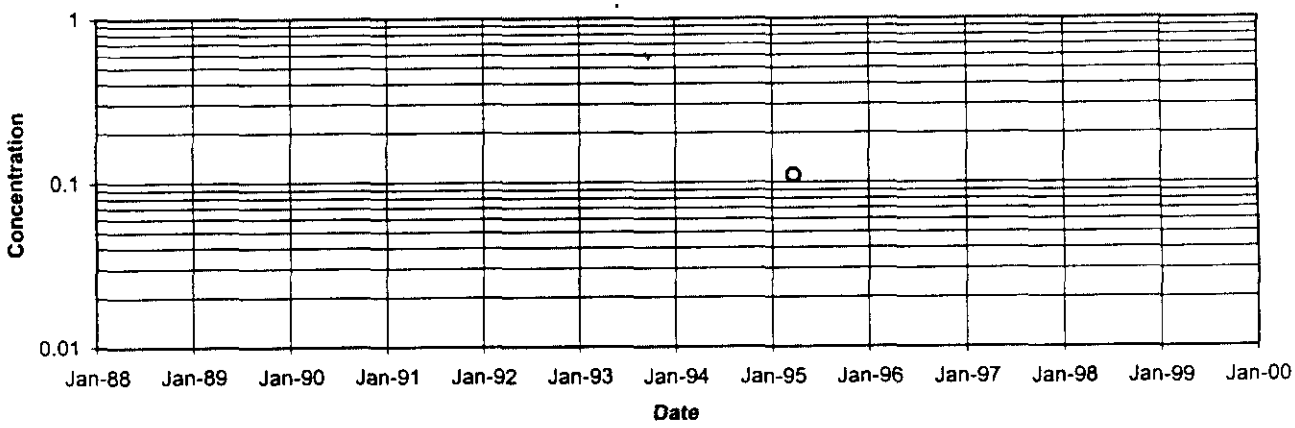
G118R



G119



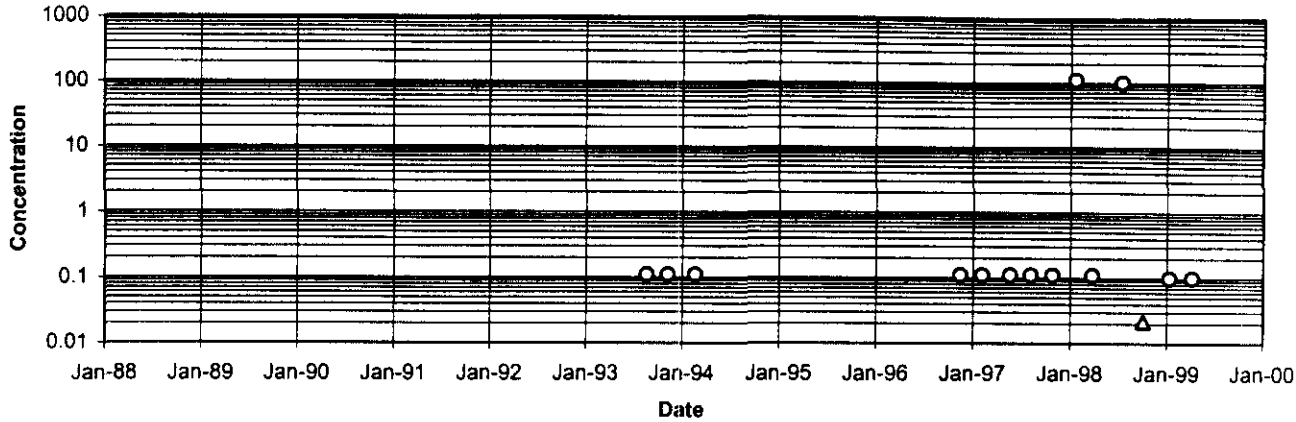
G119A



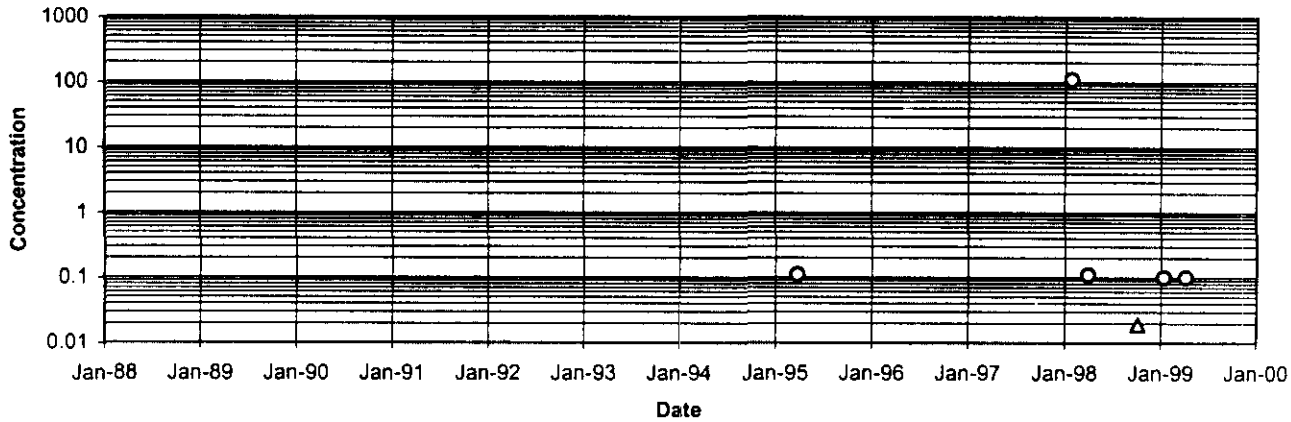
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

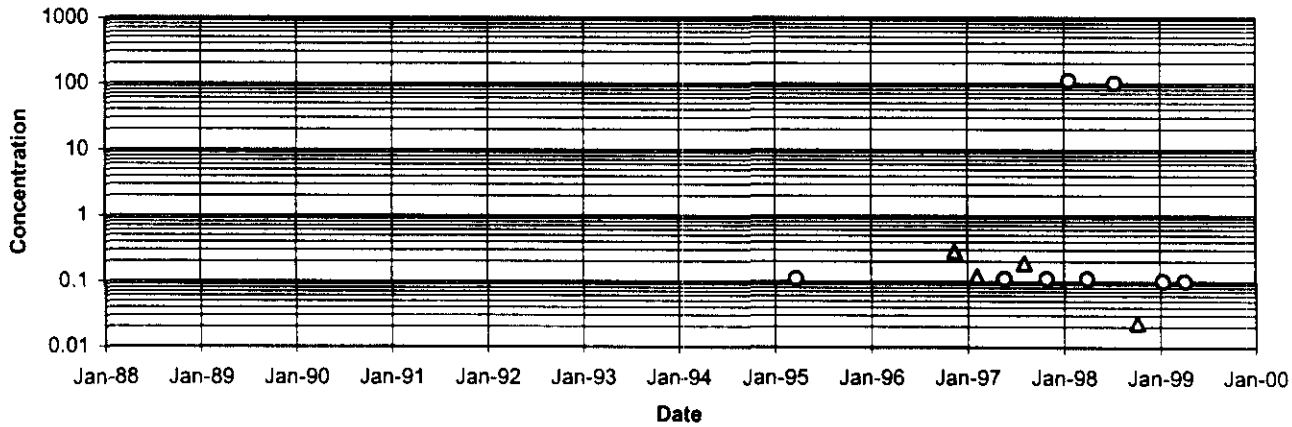
G120B



G130



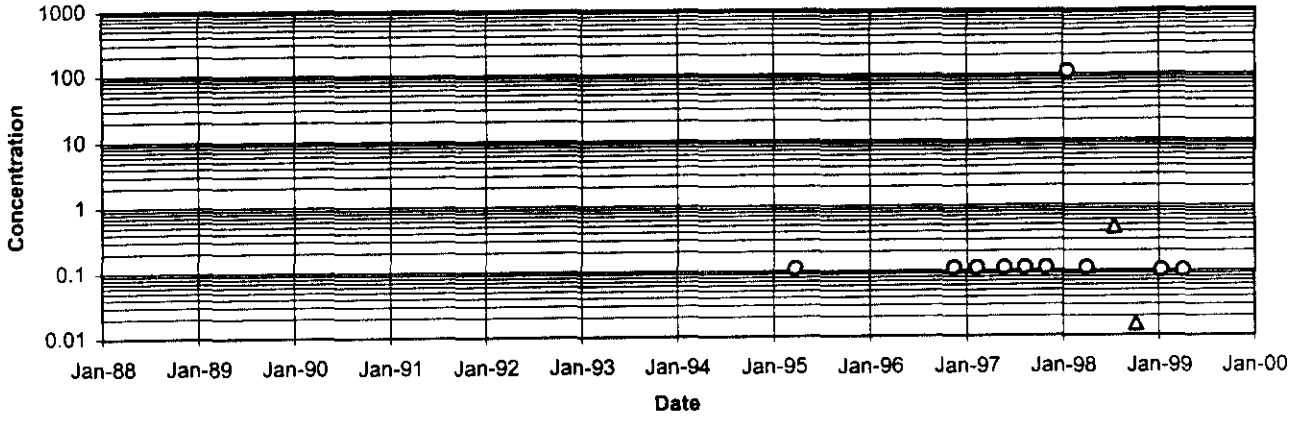
G132



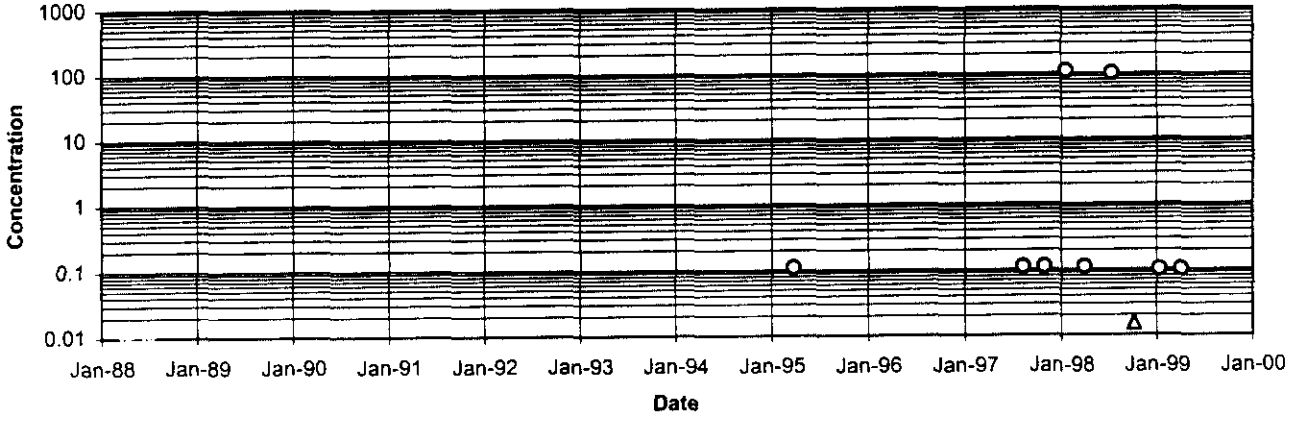
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

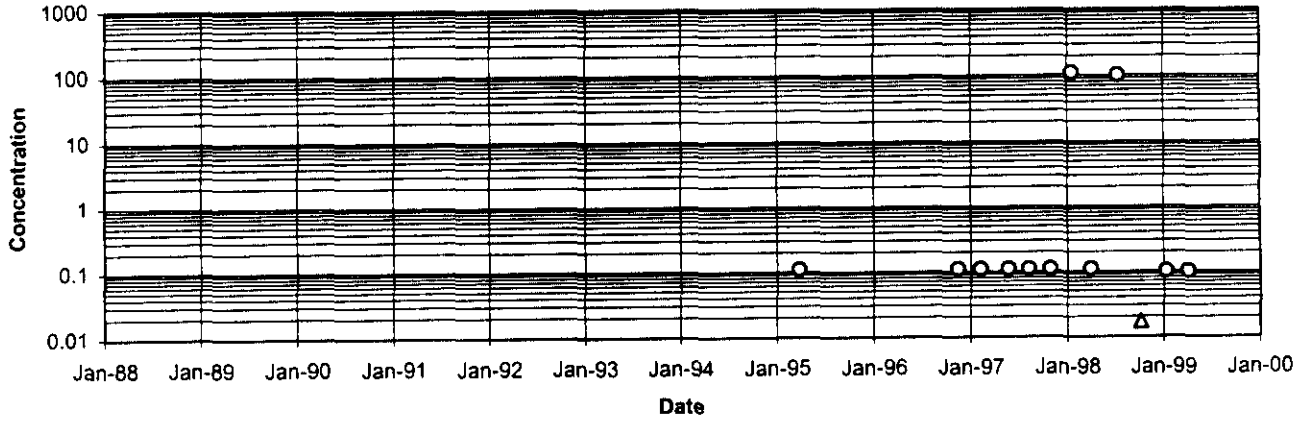
G33D



G33S



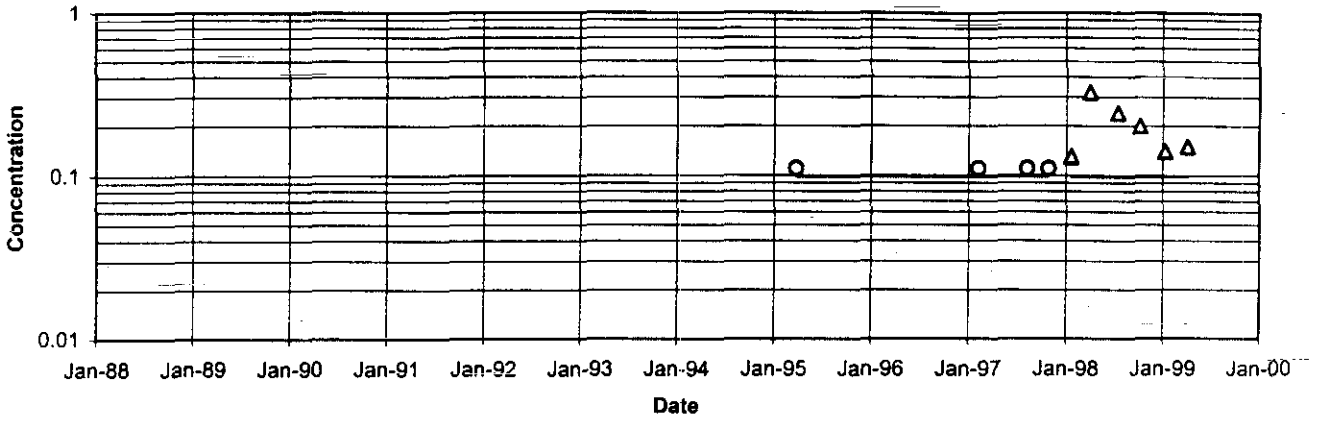
G34D



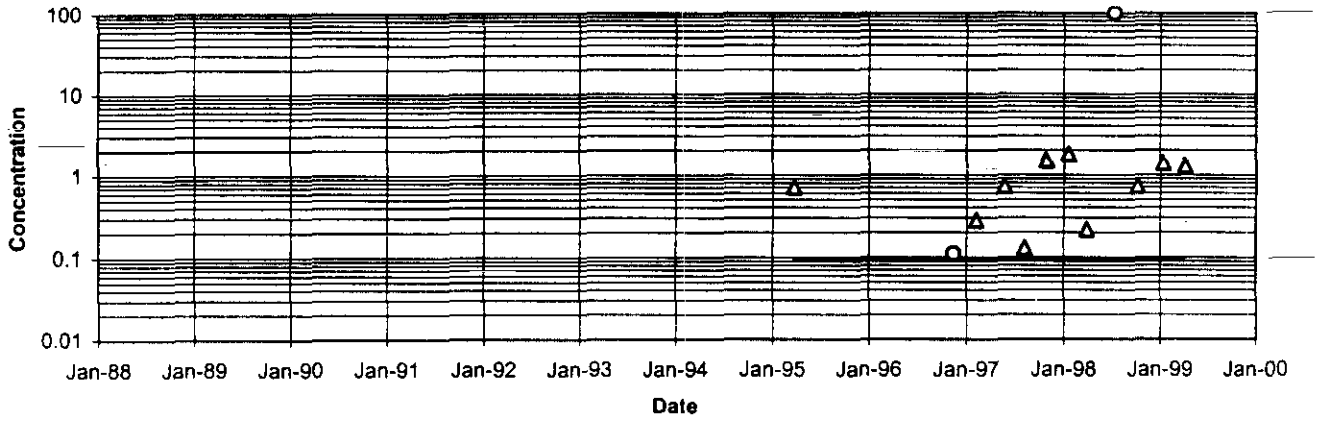
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

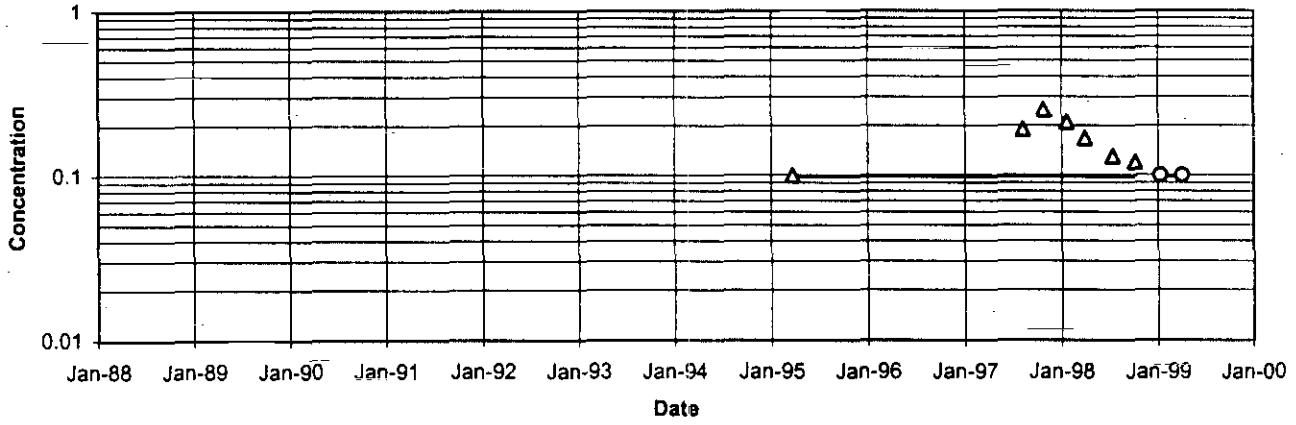
G34S



G35D



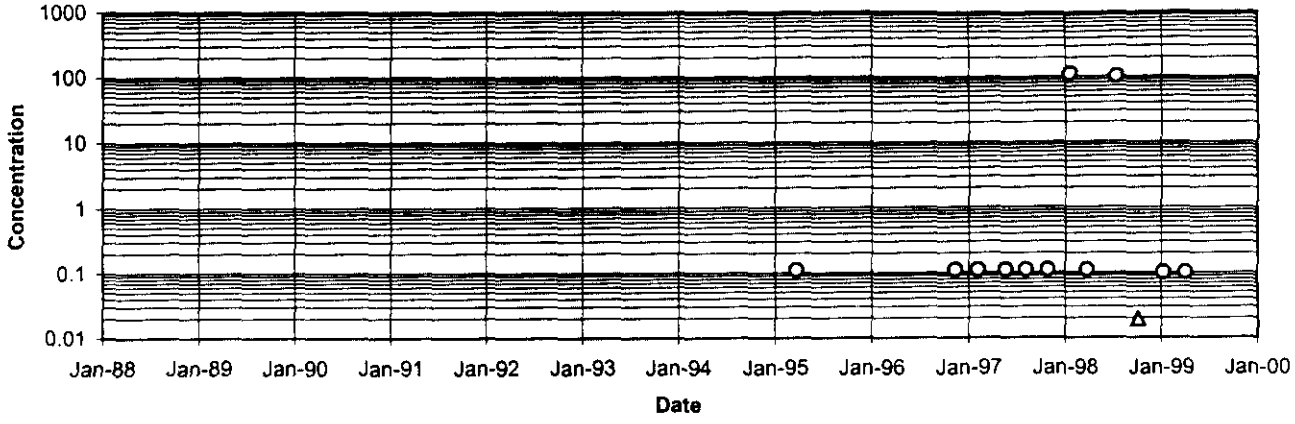
G35S



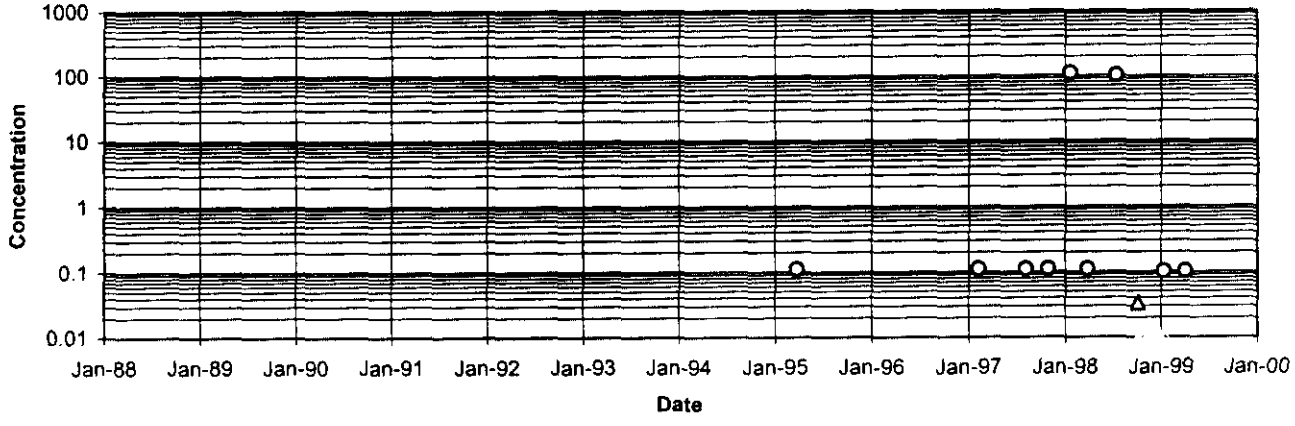
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

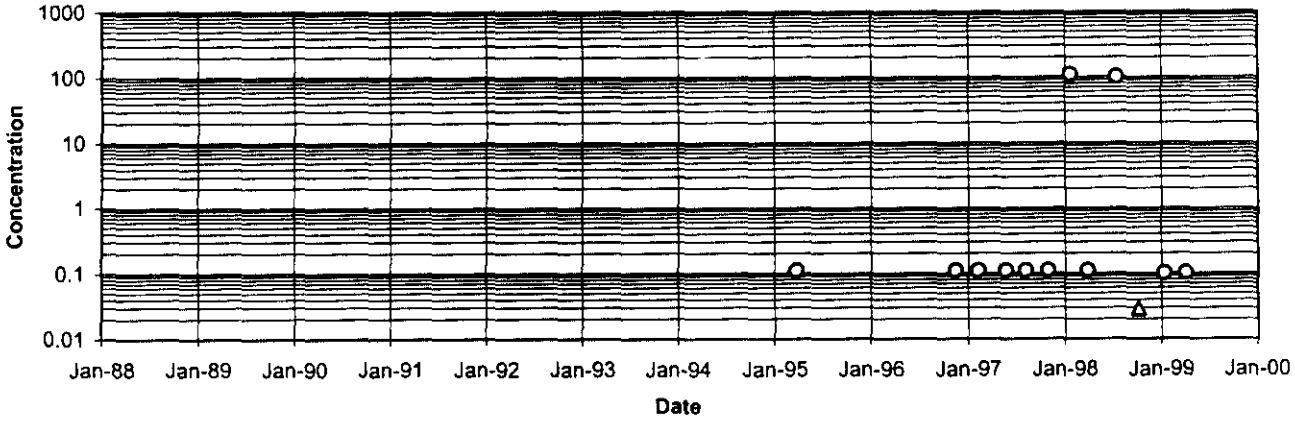
G36



G37D



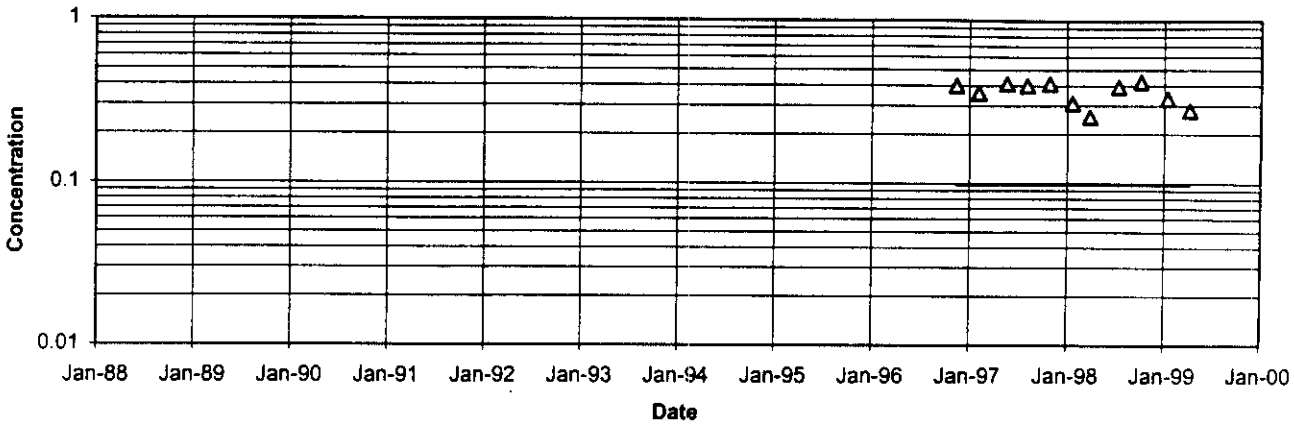
G37S



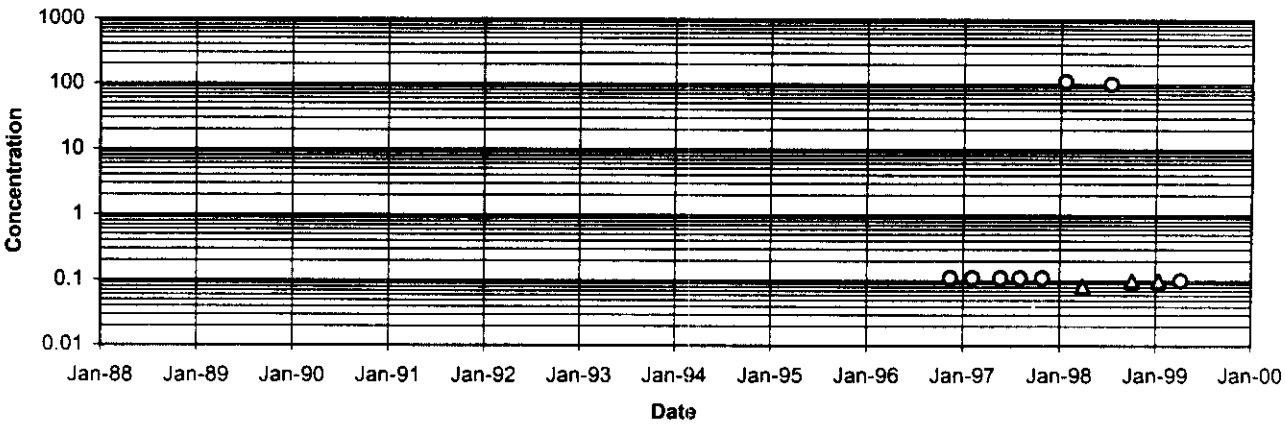
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

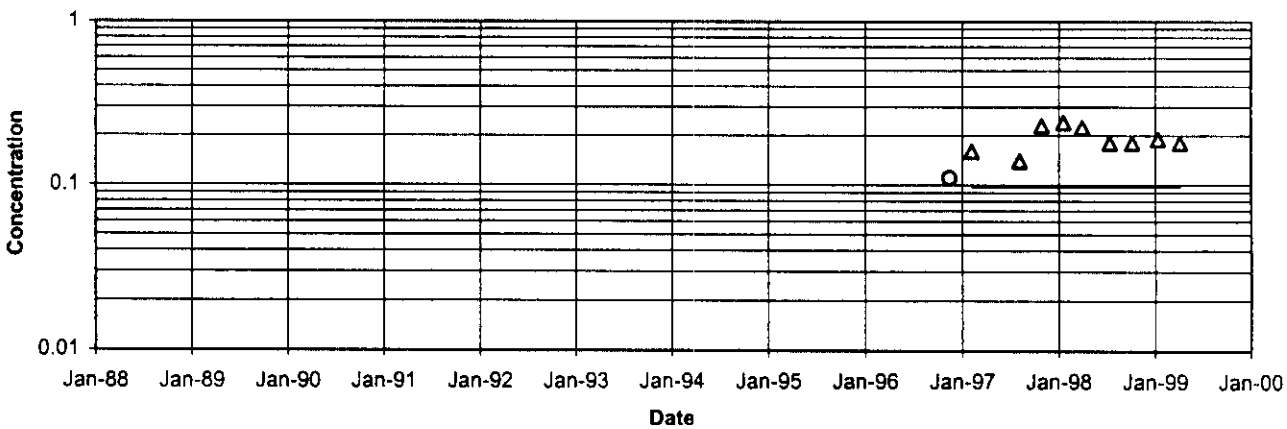
G38



G39



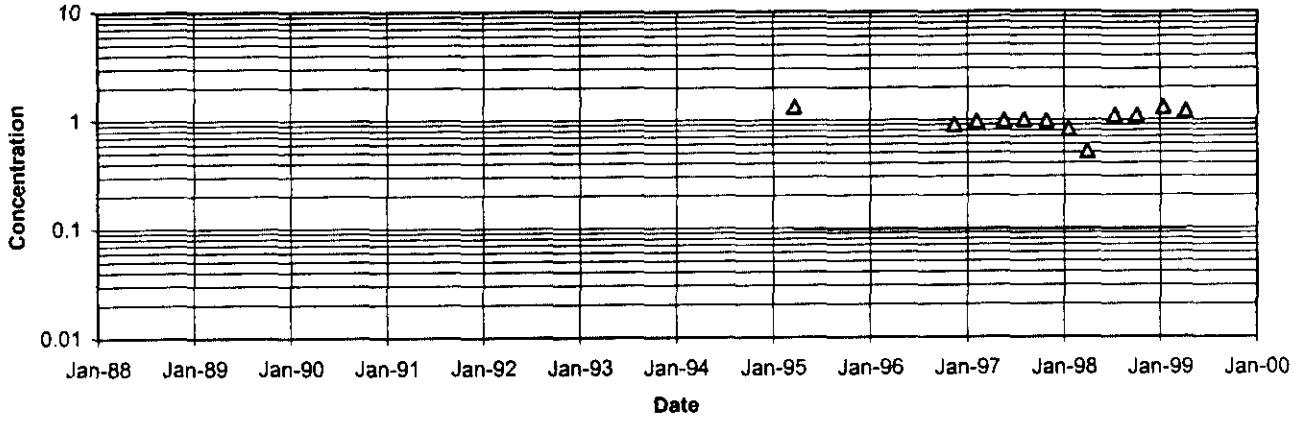
G40



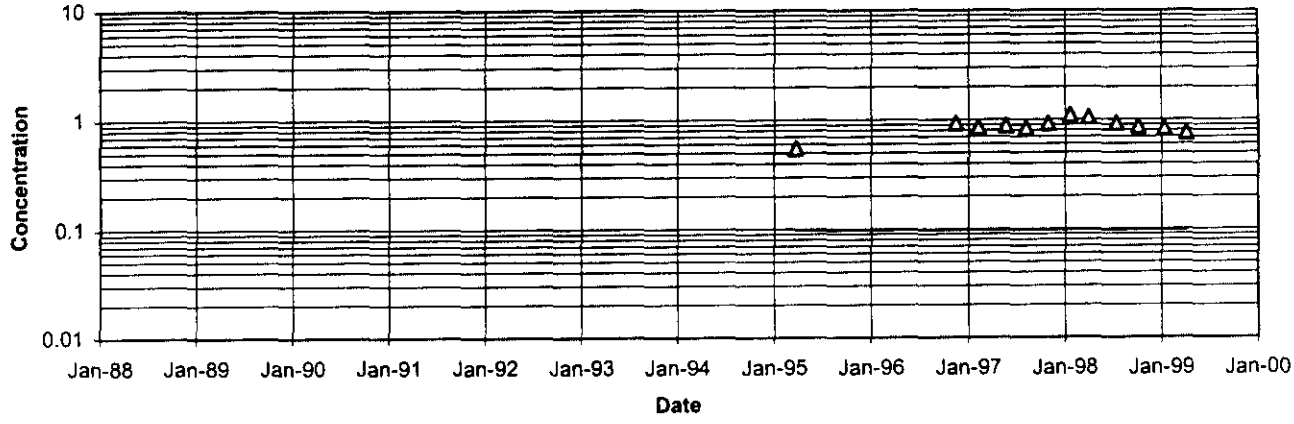
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

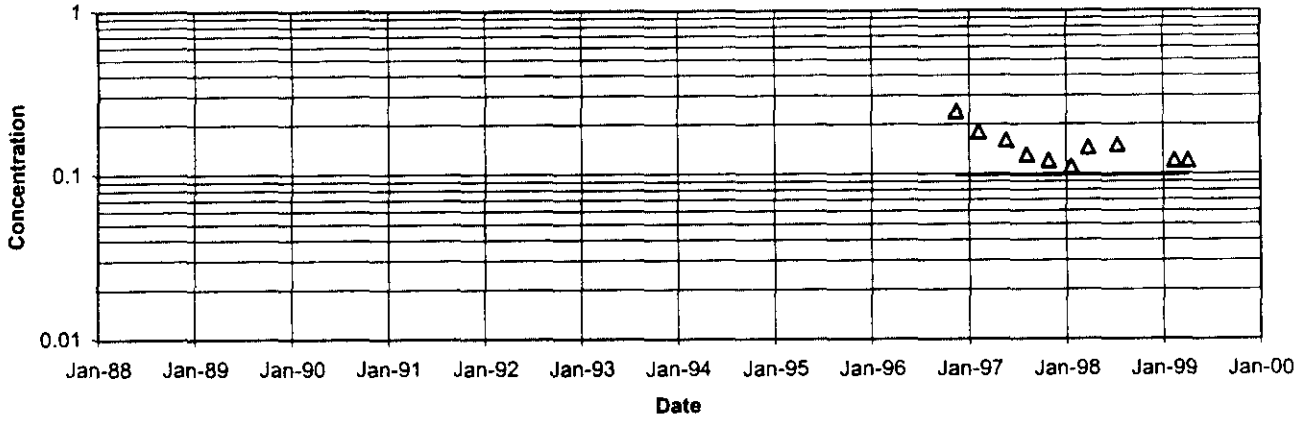
MW106



P1



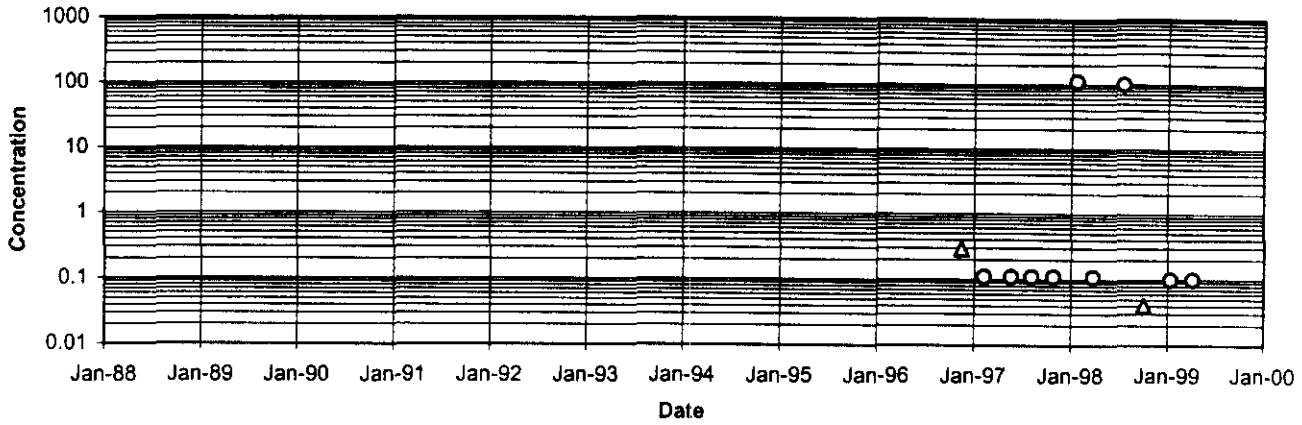
P3R



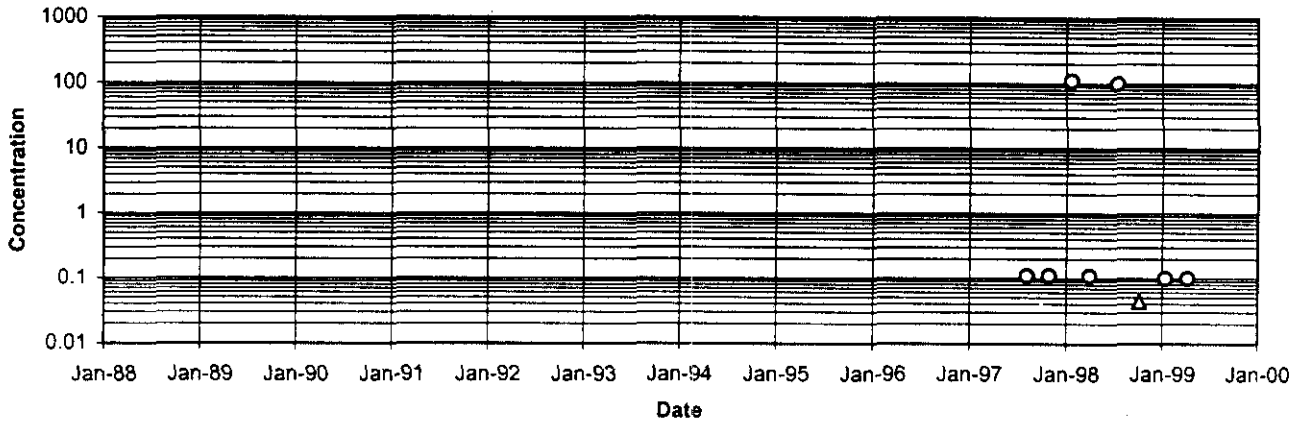
Boron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

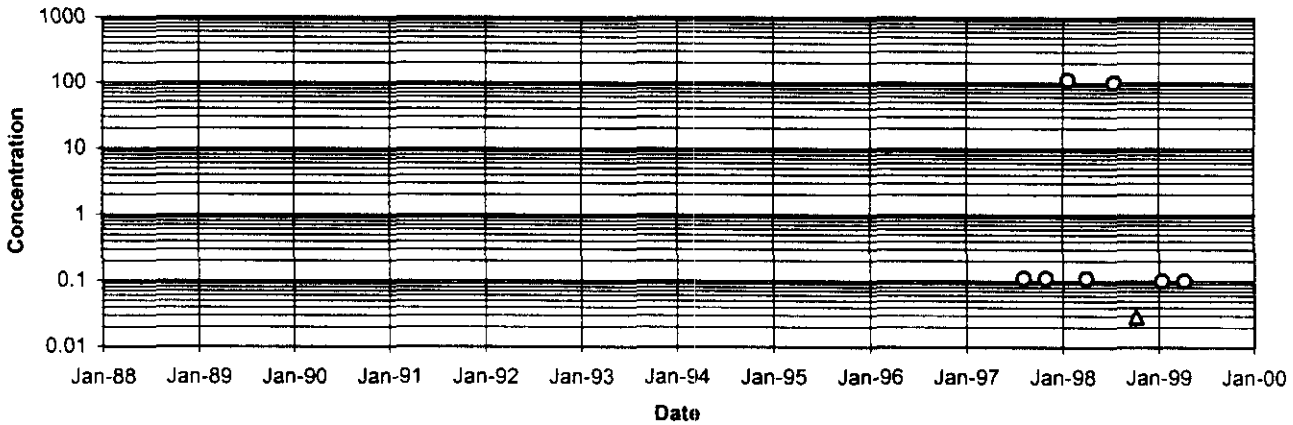
P4R

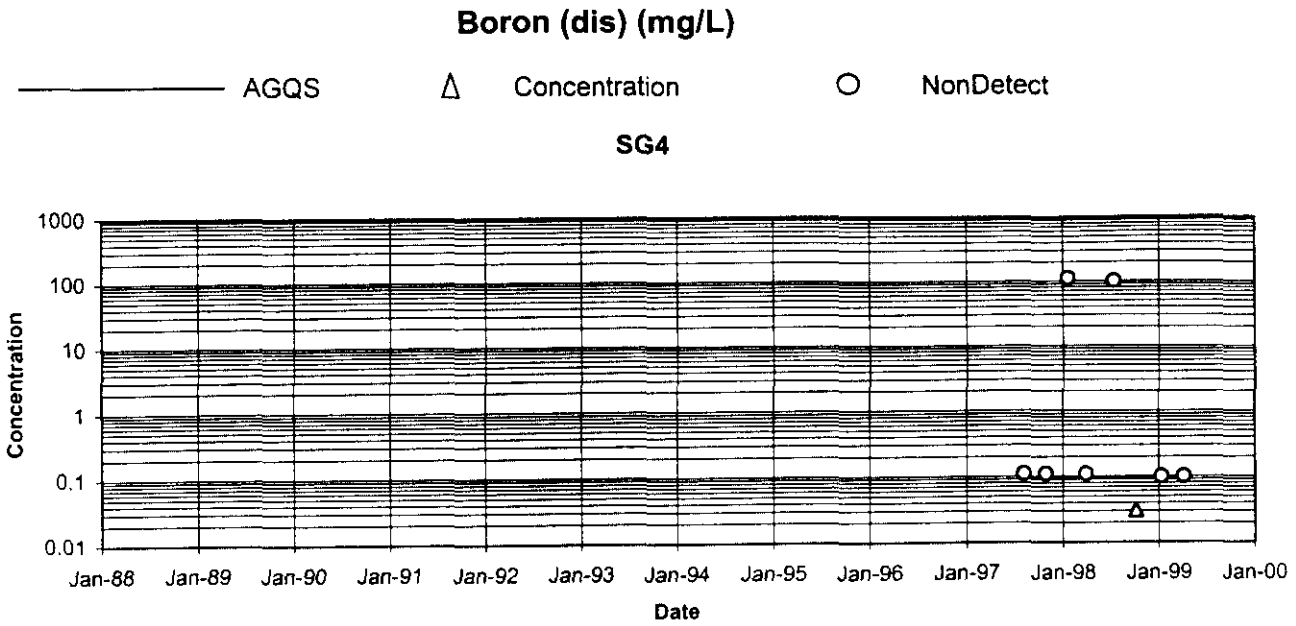


SG1



SG3

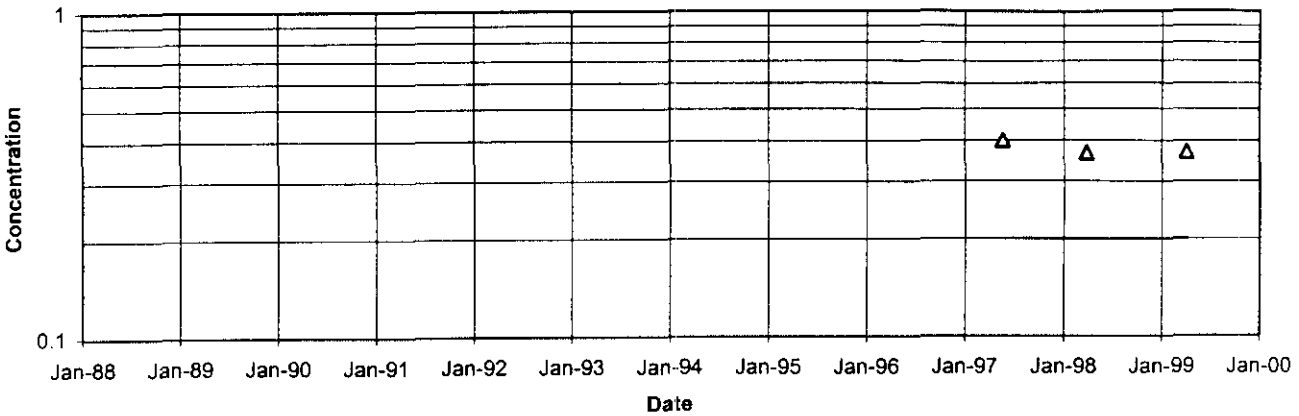



Boron (dis) (mg/L)
AGQS
Concentration
NonDetect
SG4
1000
100
10
1
0.1
0.01
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

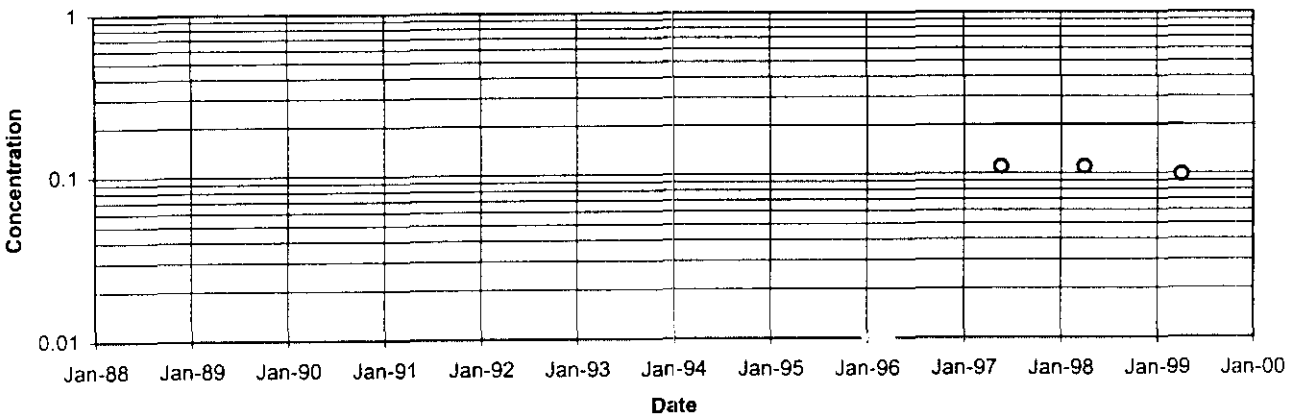
Boron (mg/L)

AGQS Δ Concentration ○ NonDetect

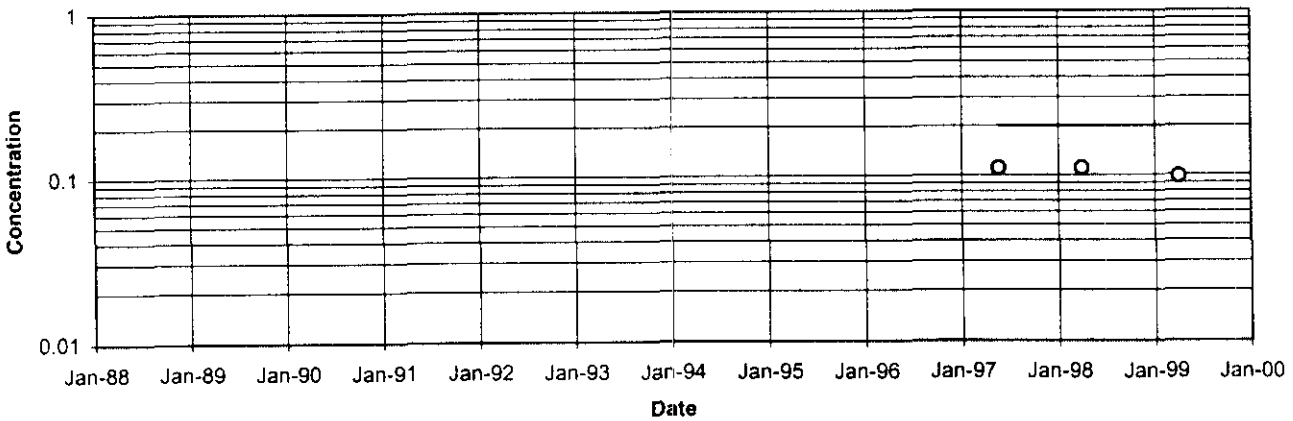
B15R



G109



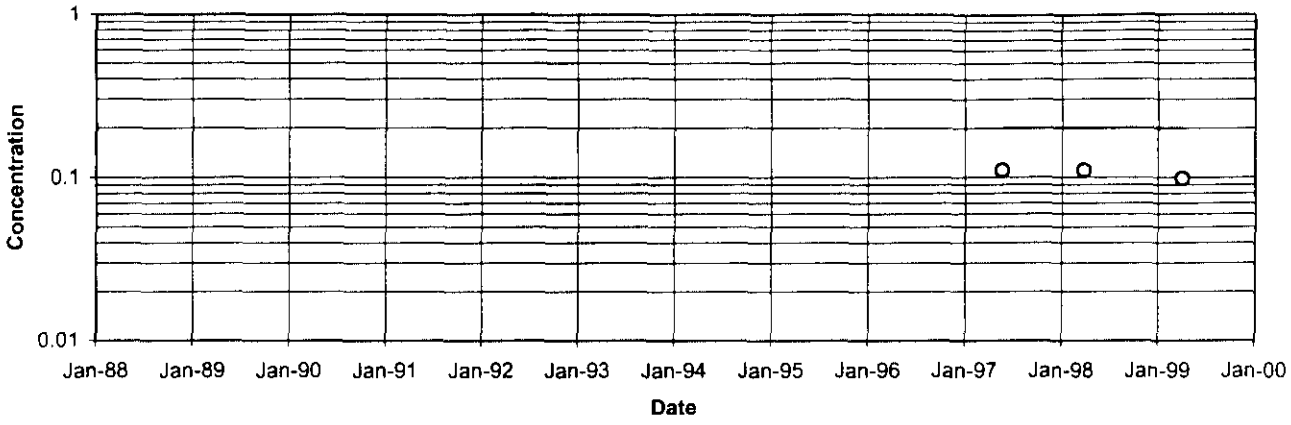
G109A



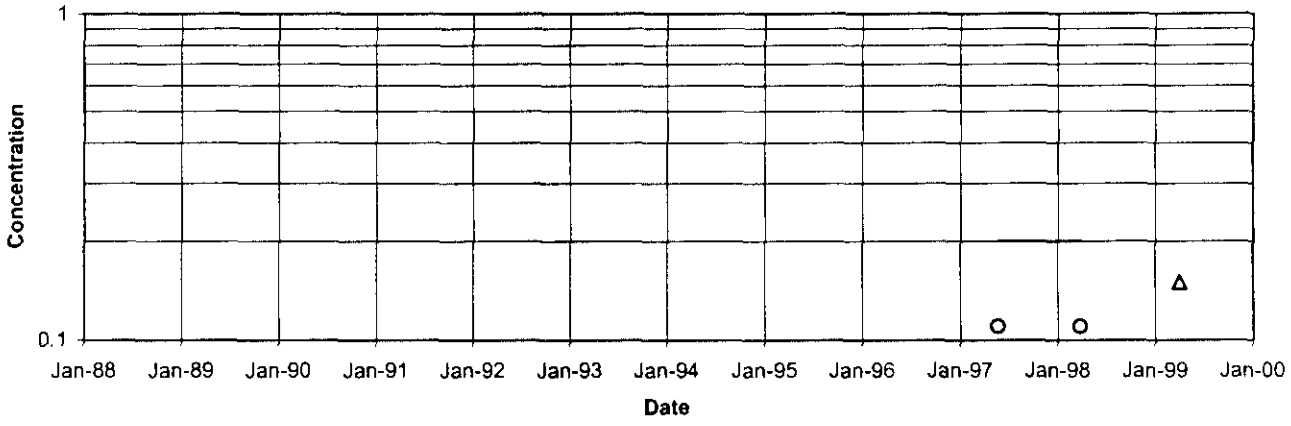
Boron (mg/L)

AGQS Δ Concentration O NonDetect

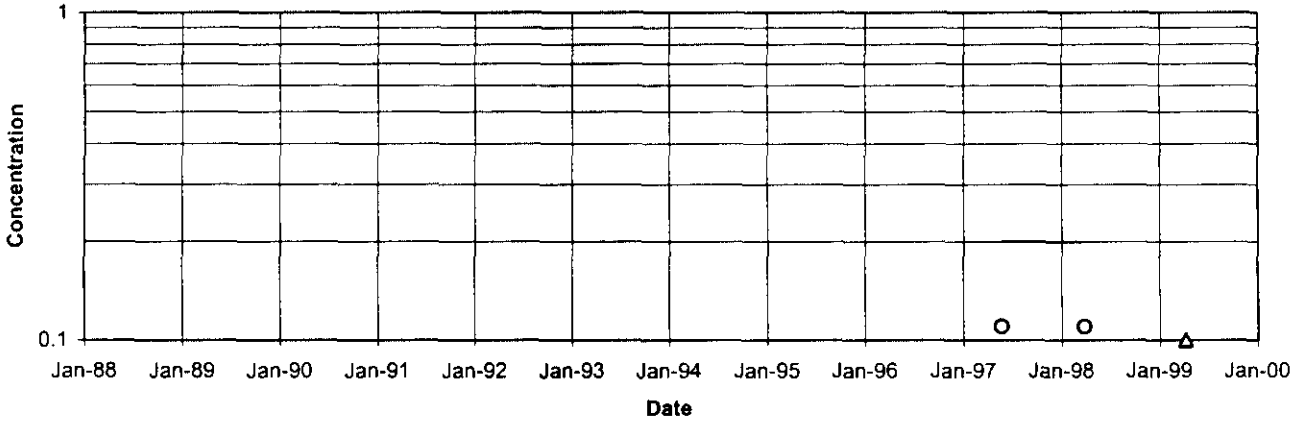
G113



G113A



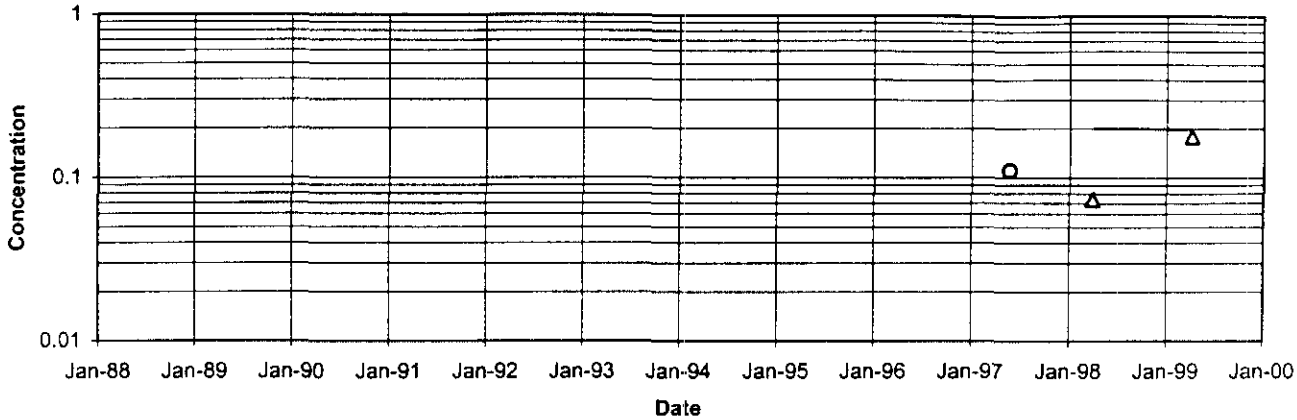
G114



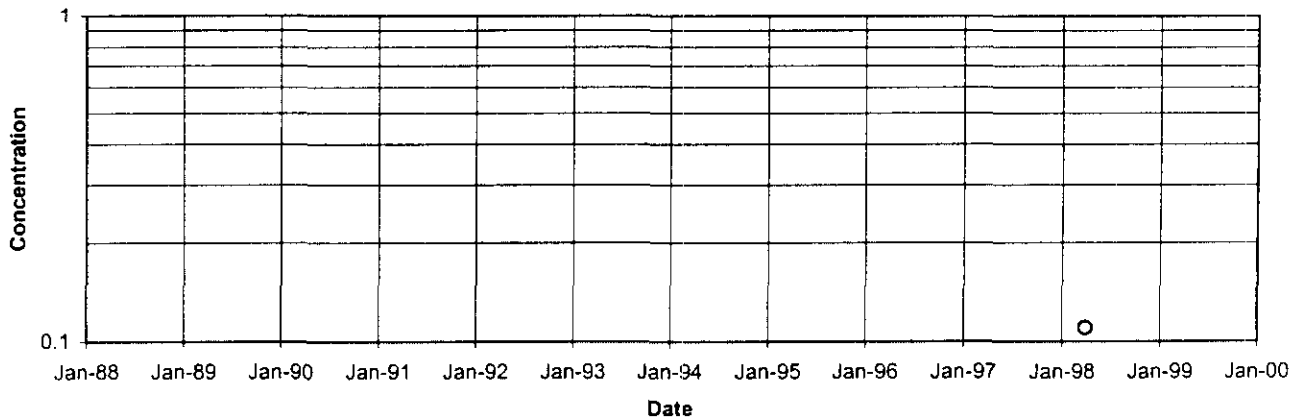
Boron (mg/L)

AGQS Δ Concentration O NonDetect

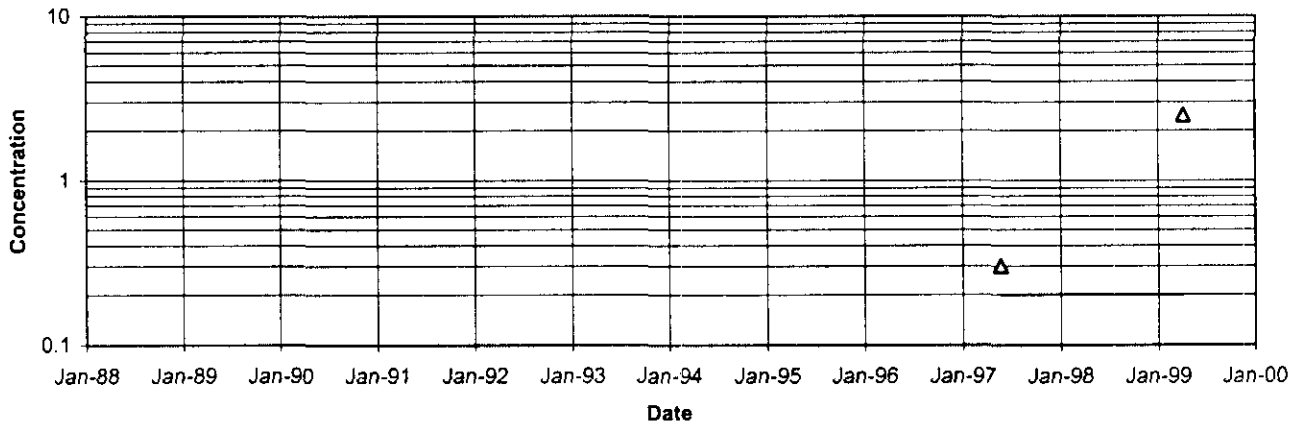
G115



G116



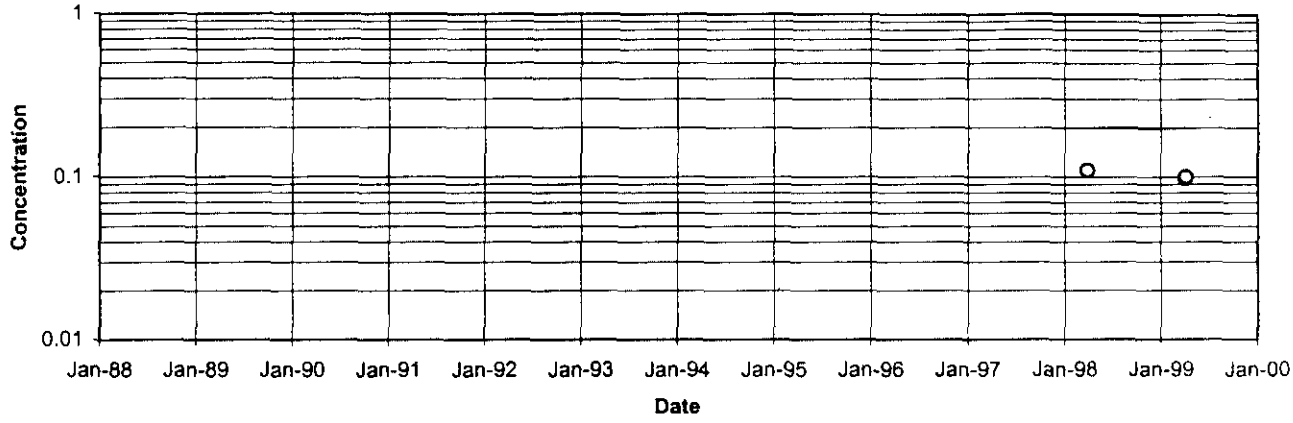
G116A



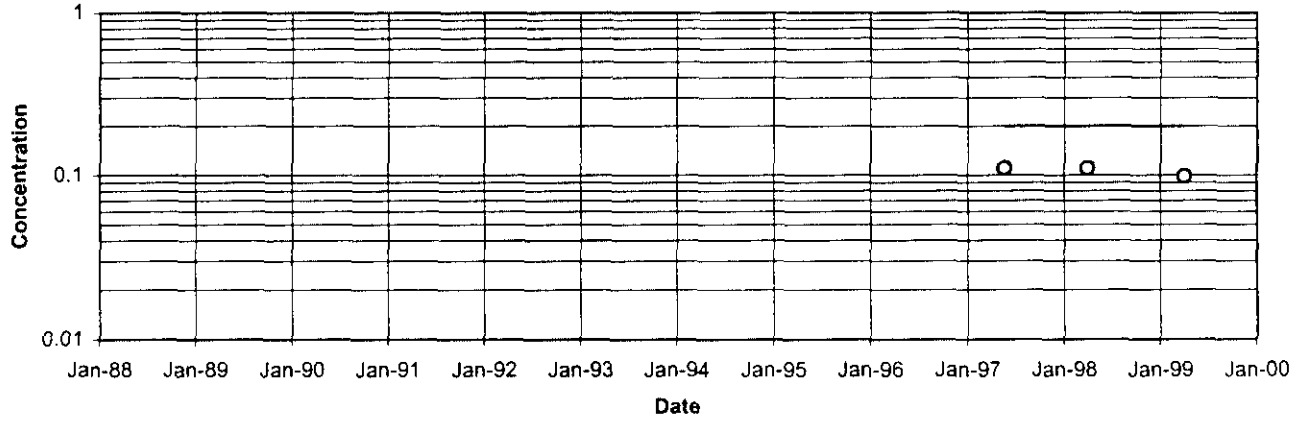
Boron (mg/L)

AGQS Δ Concentration O NonDetect

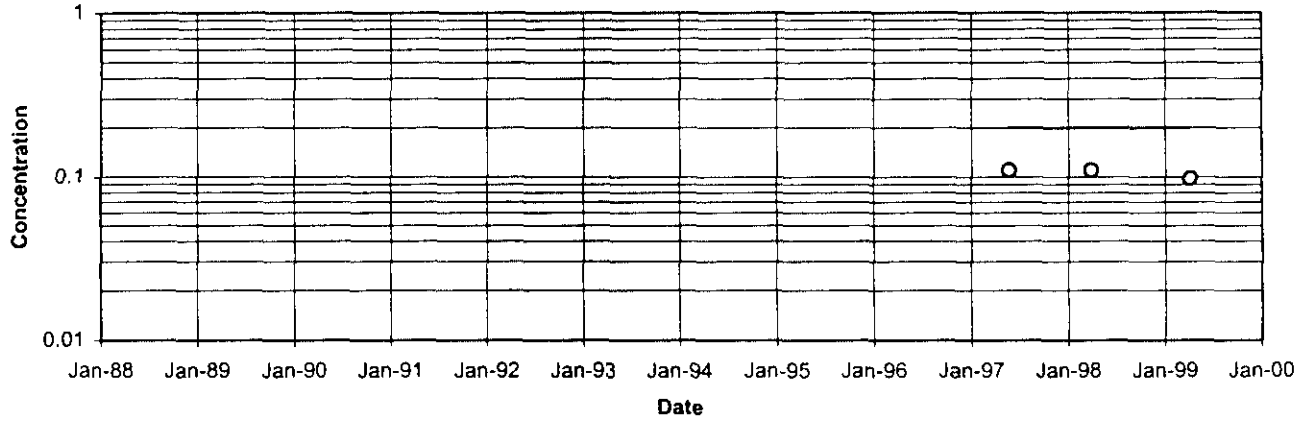
G116D



G117



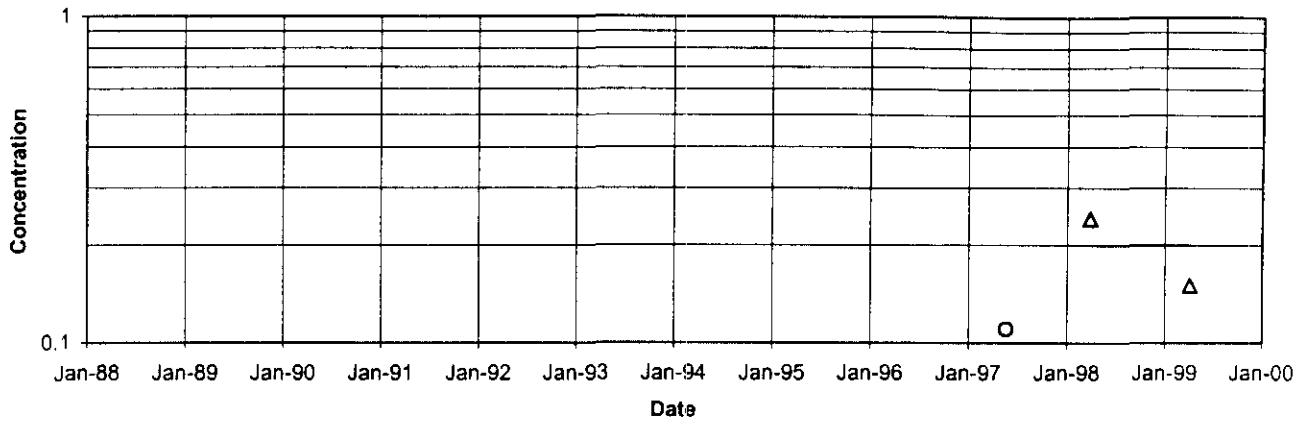
G118A



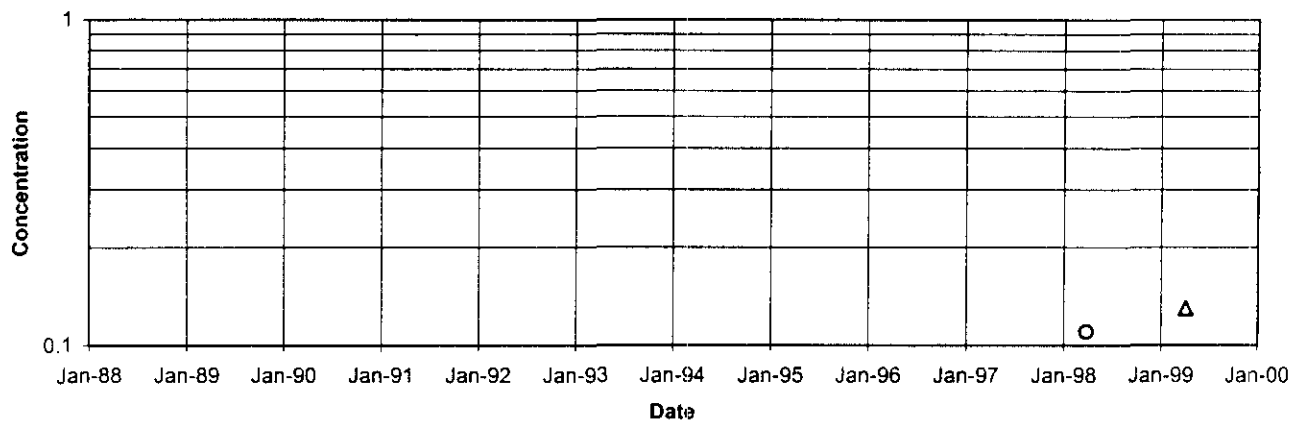
Boron (mg/L)

AGQS Δ Concentration O NonDetect

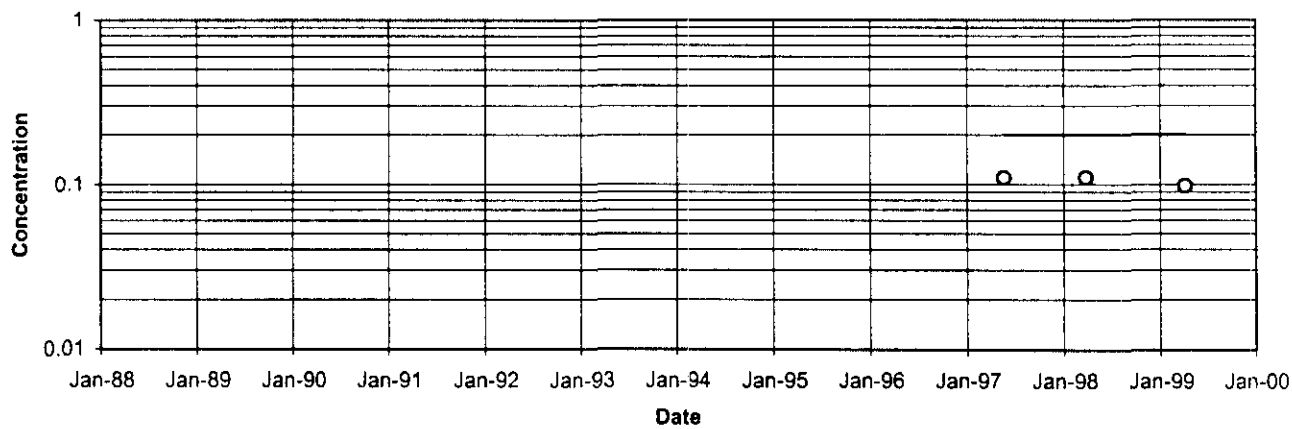
G118R



G119



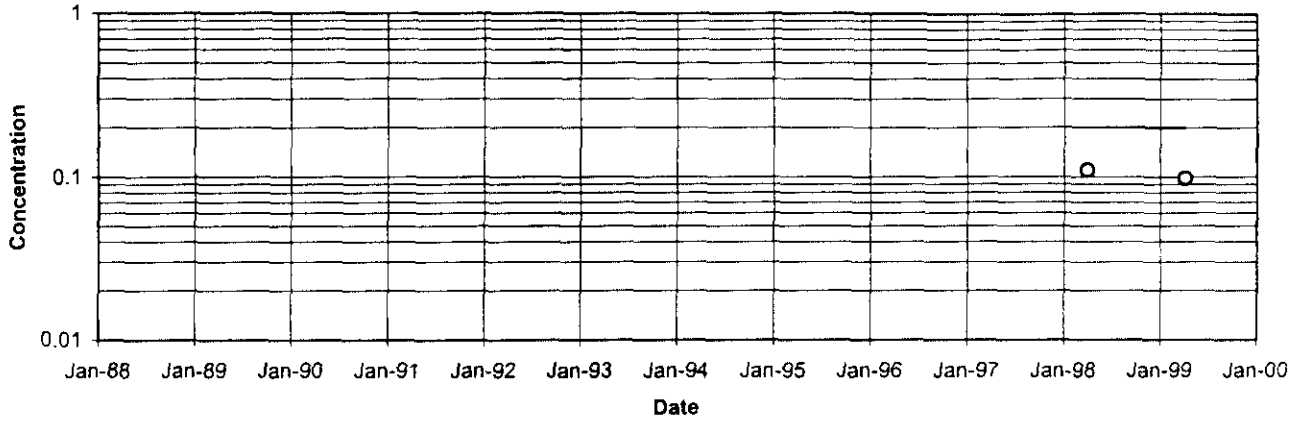
G120B



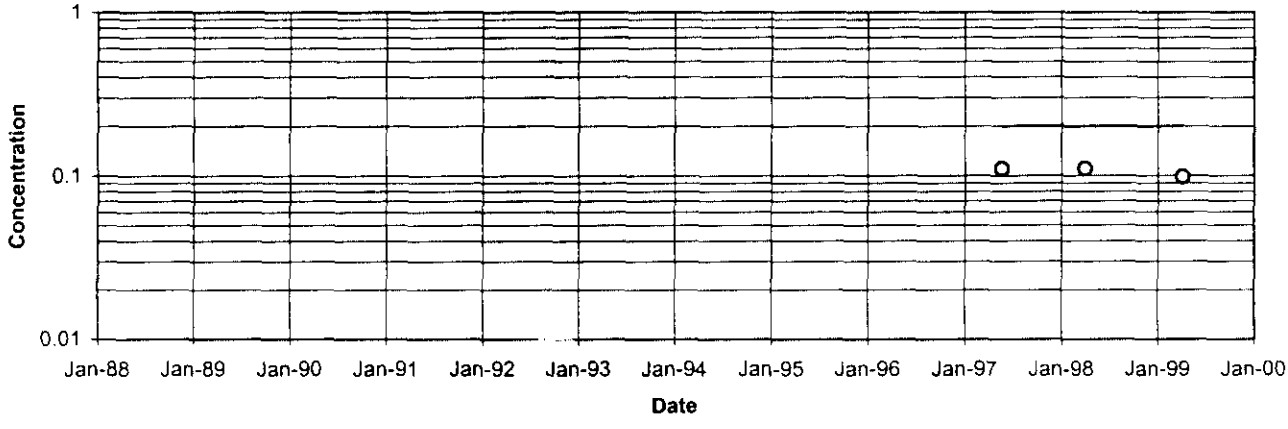
Boron (mg/L)

AGQS Δ Concentration O NonDetect

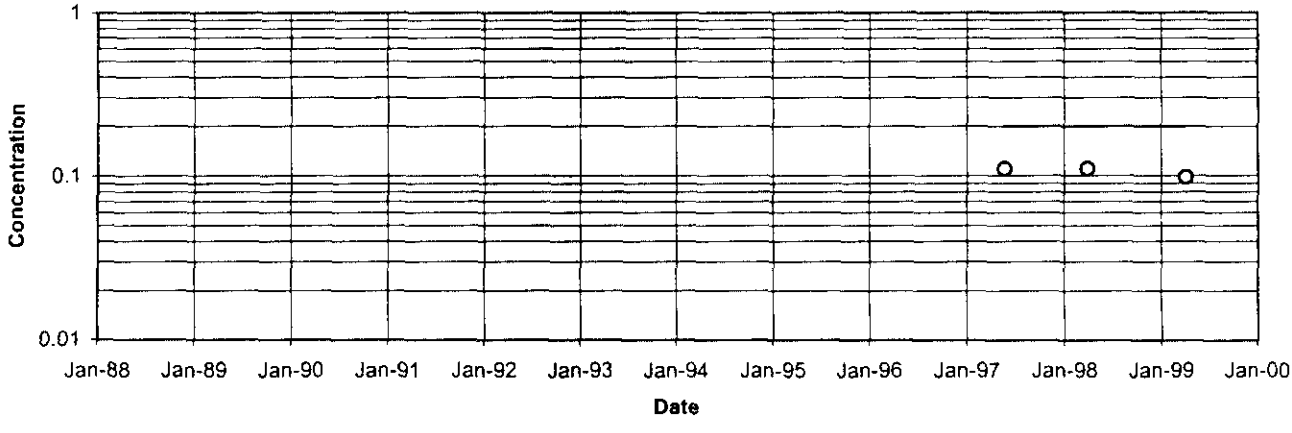
G130



G132



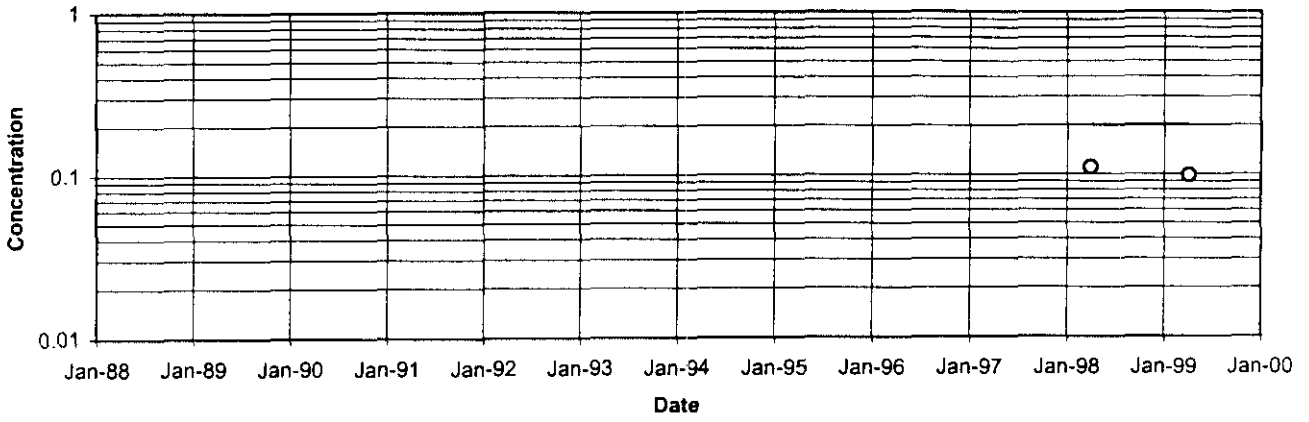
G33D



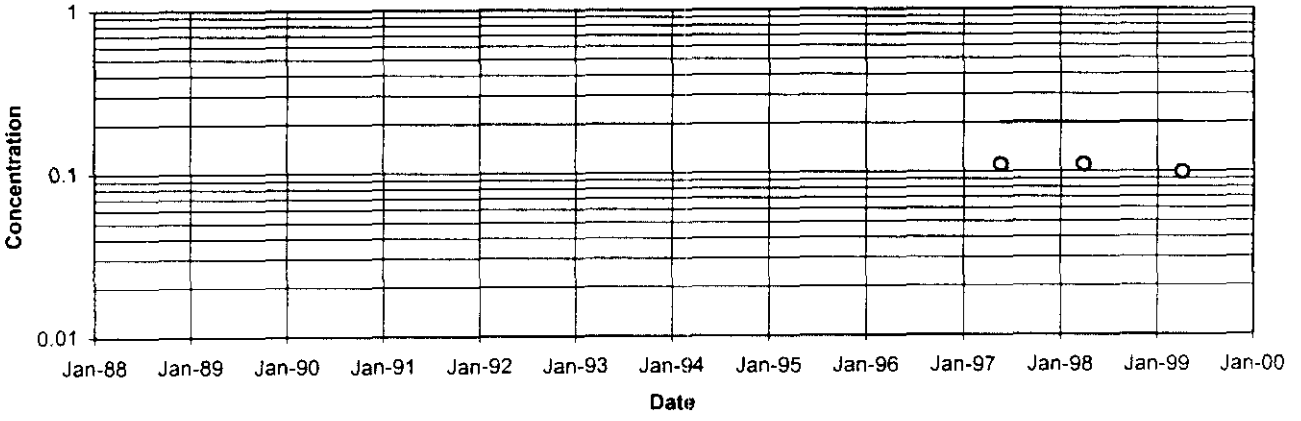
Boron (mg/L)

AGQS Δ Concentration O NonDetect

G33S



G34D



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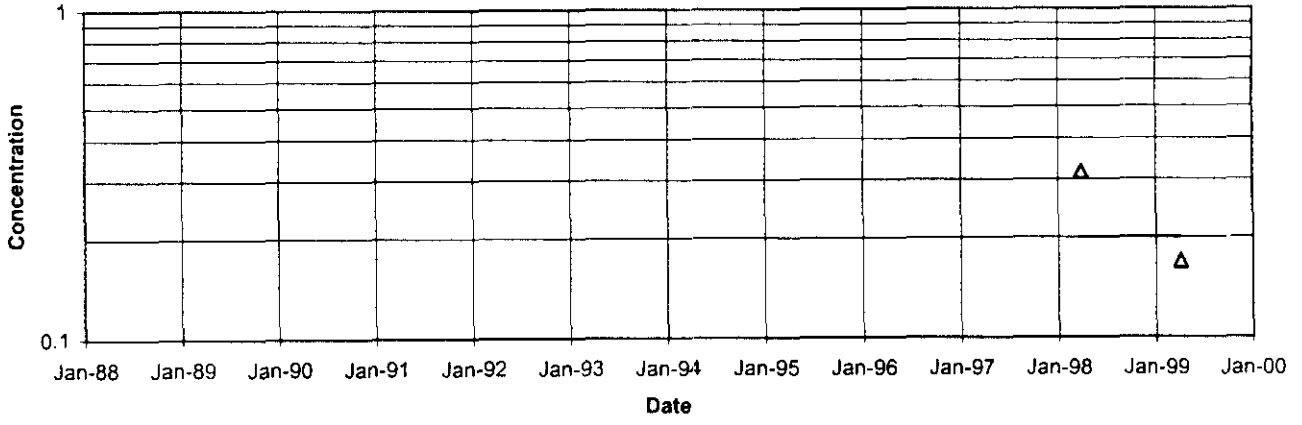
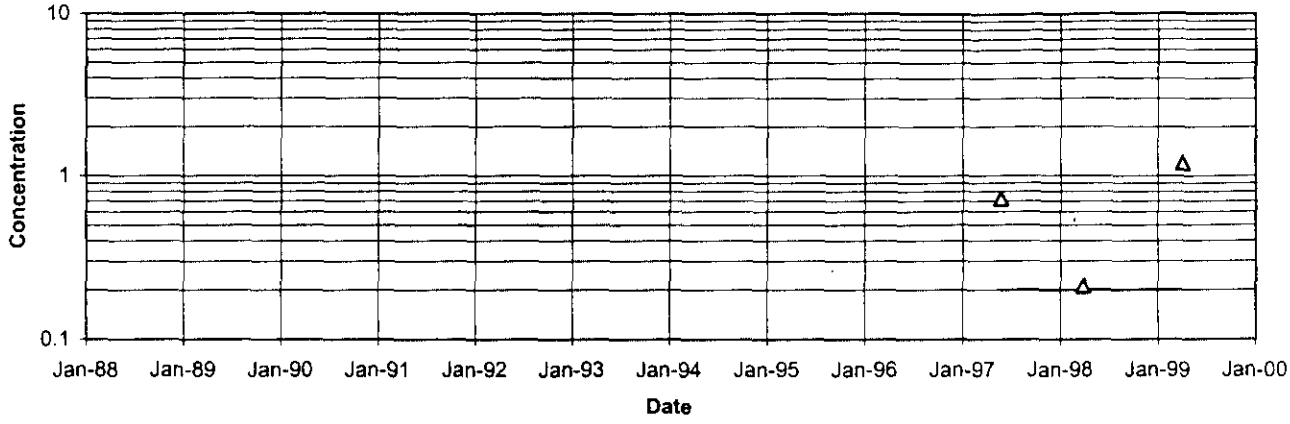


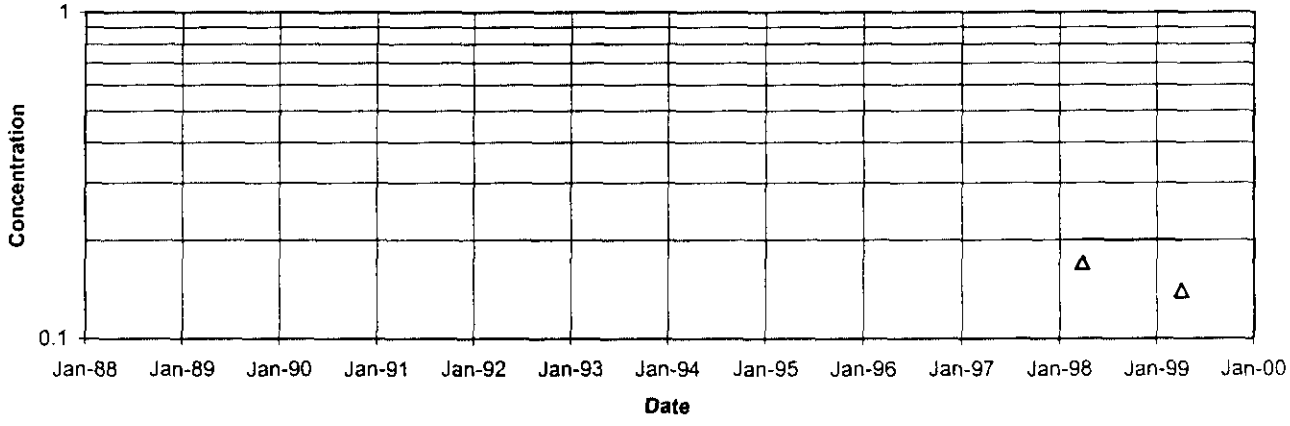
Boron (mg/L)

AGQS Δ Concentration O NonDetect

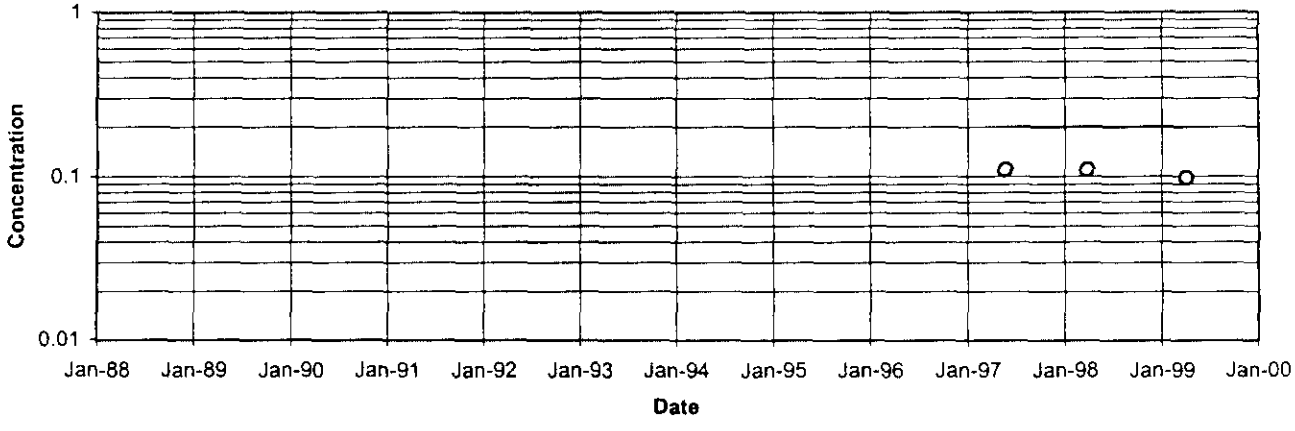
G35D



G35S



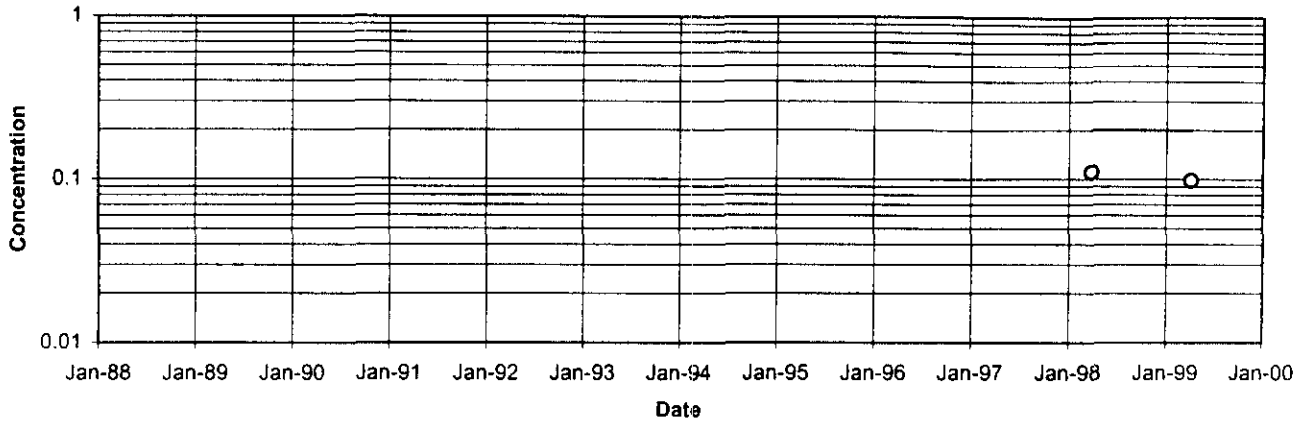
G36



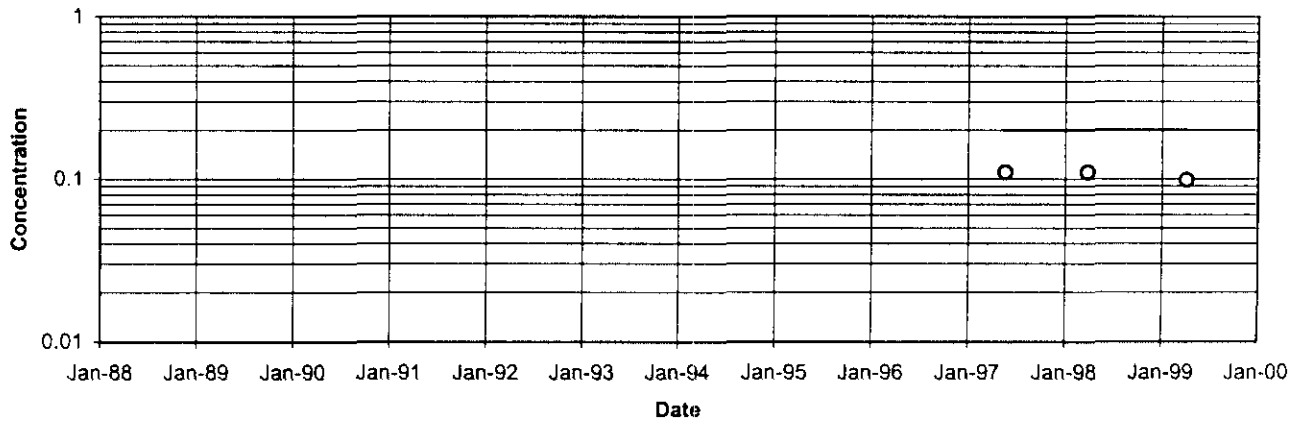
Boron (mg/L)

AGQS Δ Concentration O NonDetect

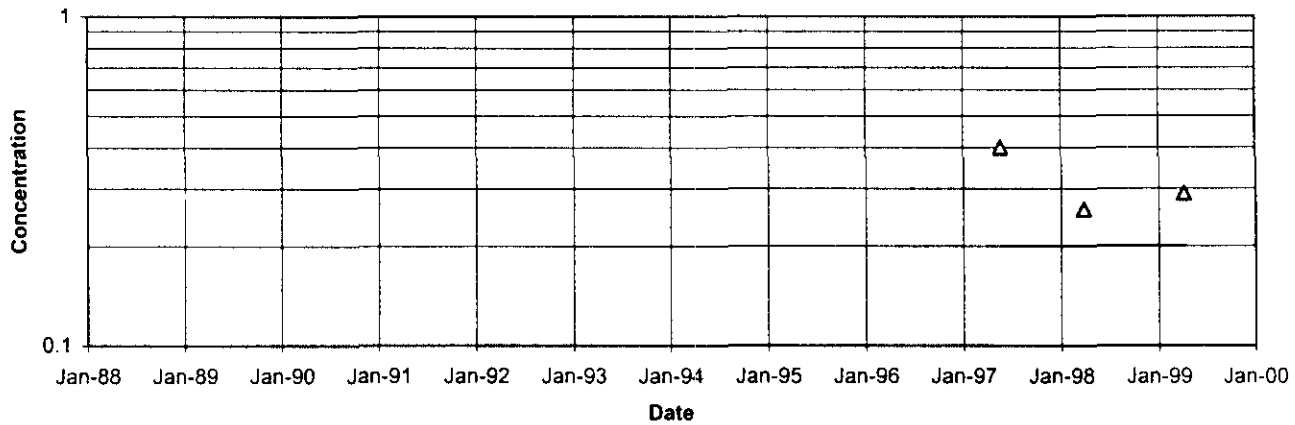
G37D



G37S



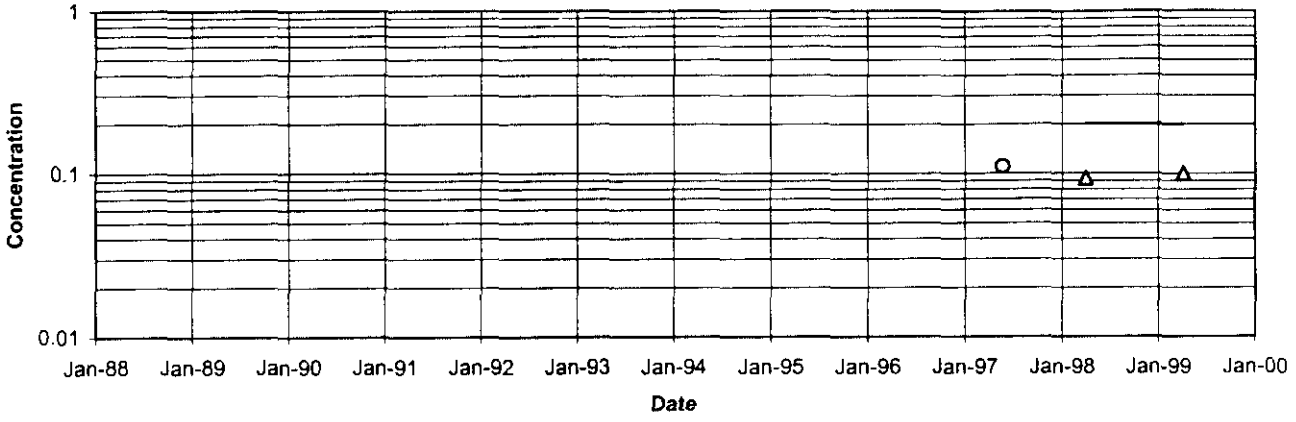
G38



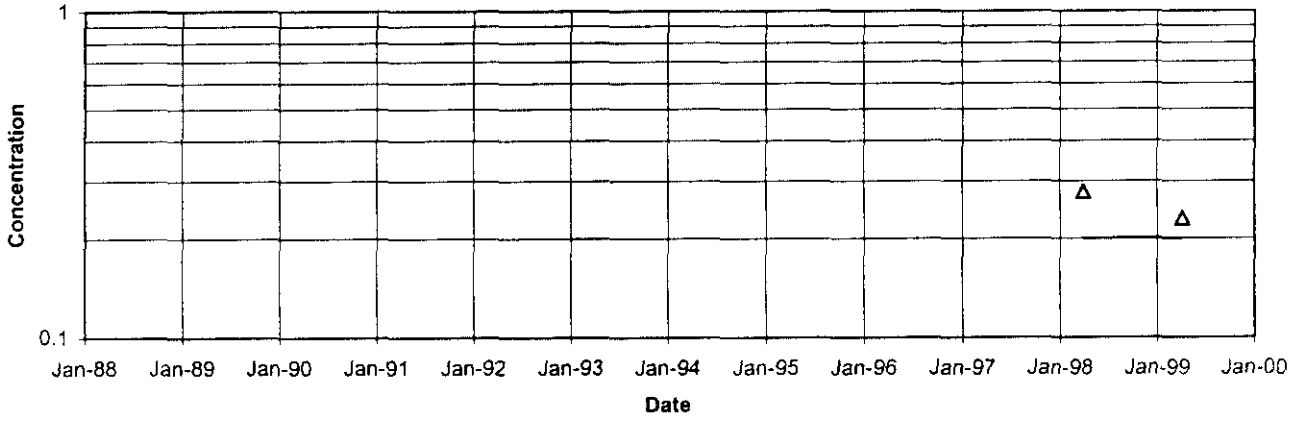
Boron (mg/L)

AGQS Δ Concentration O NonDetect

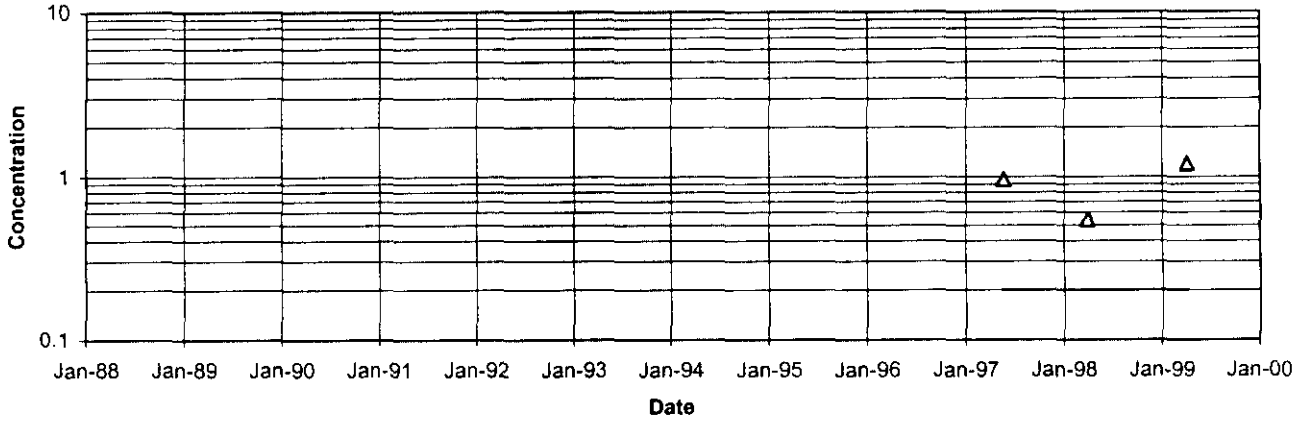
G39



G40



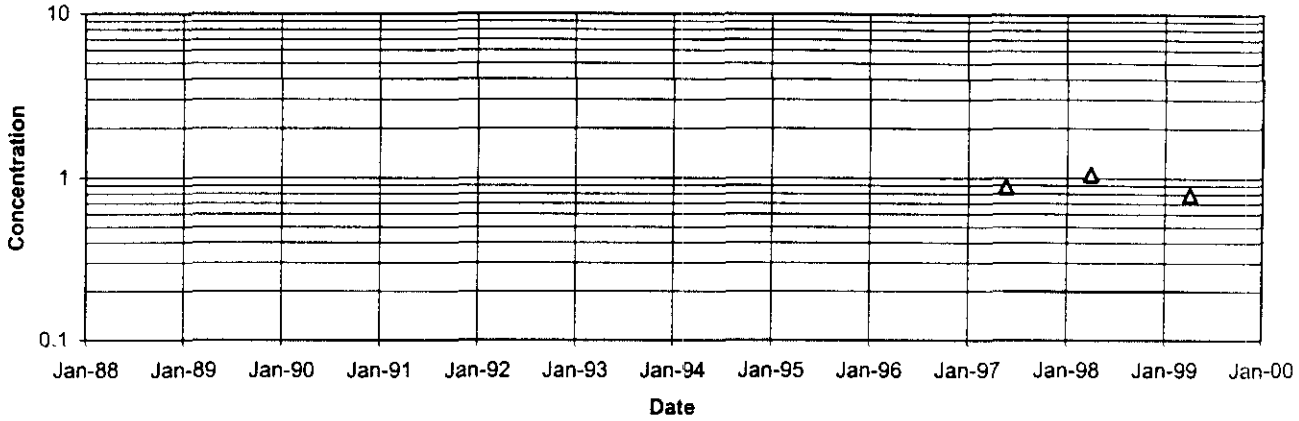
MW106



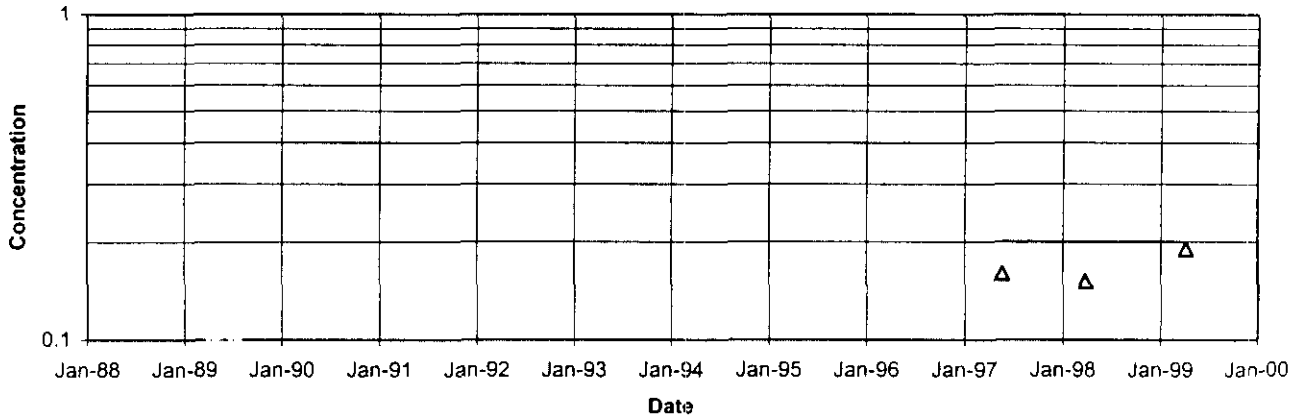
Boron (mg/L)

AGQS Δ Concentration O NonDetect

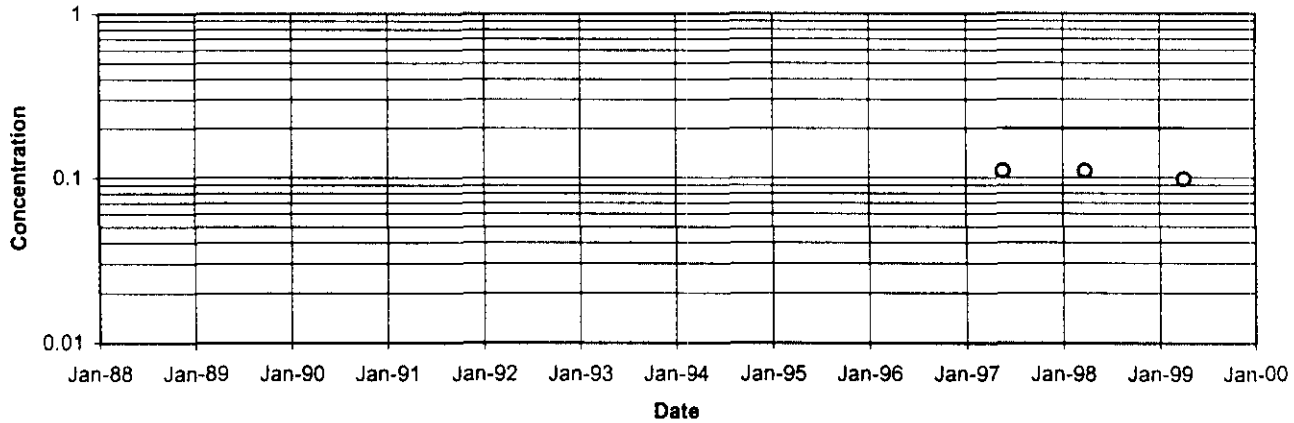
P1



P3R



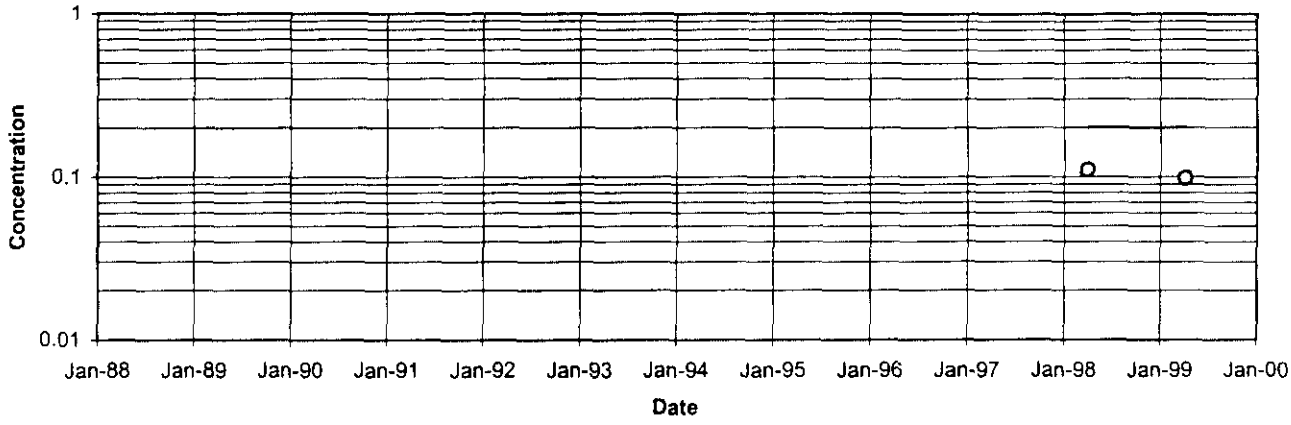
P4R



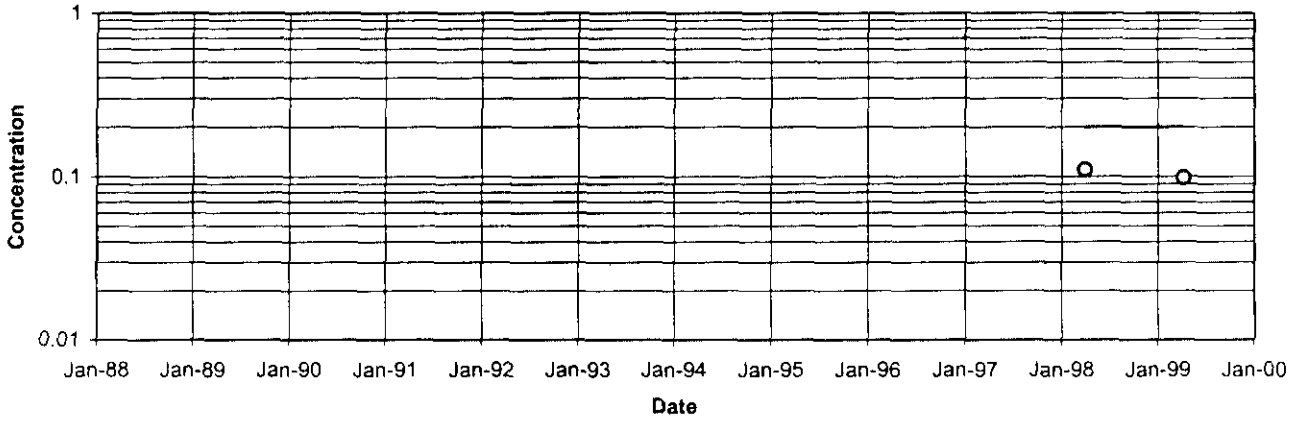
Boron (mg/L)

AGQS Δ Concentration O NonDetect

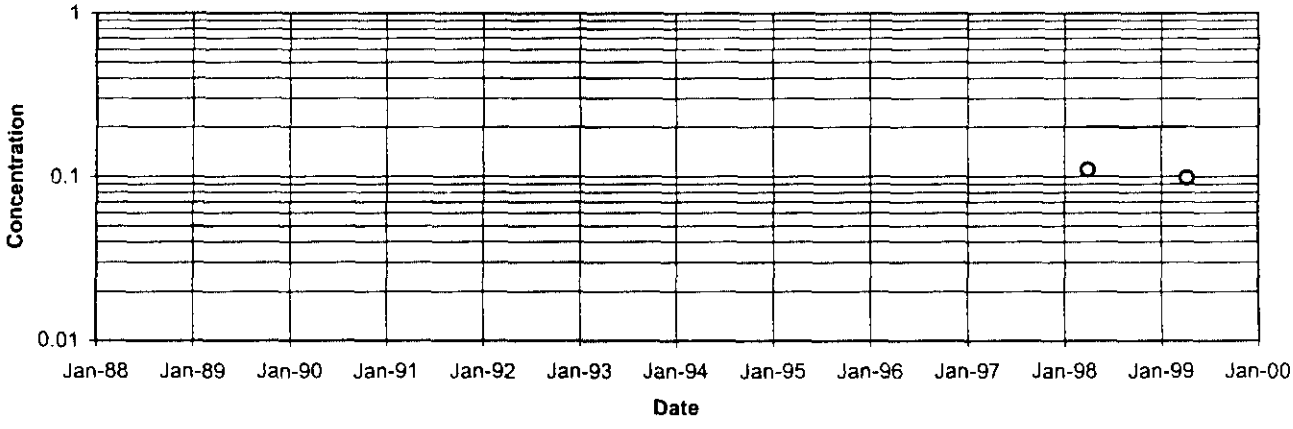
SG1



SG3



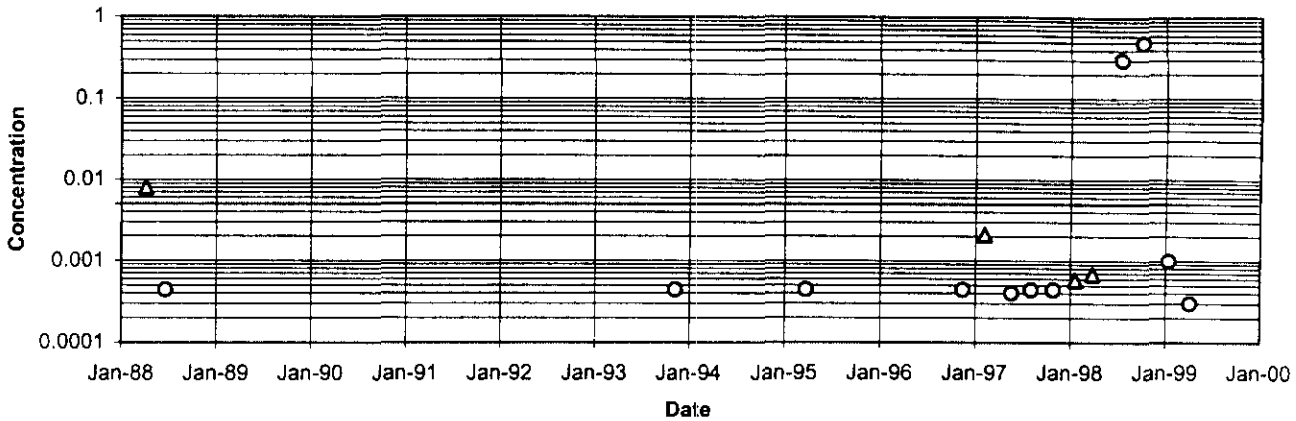
SG4



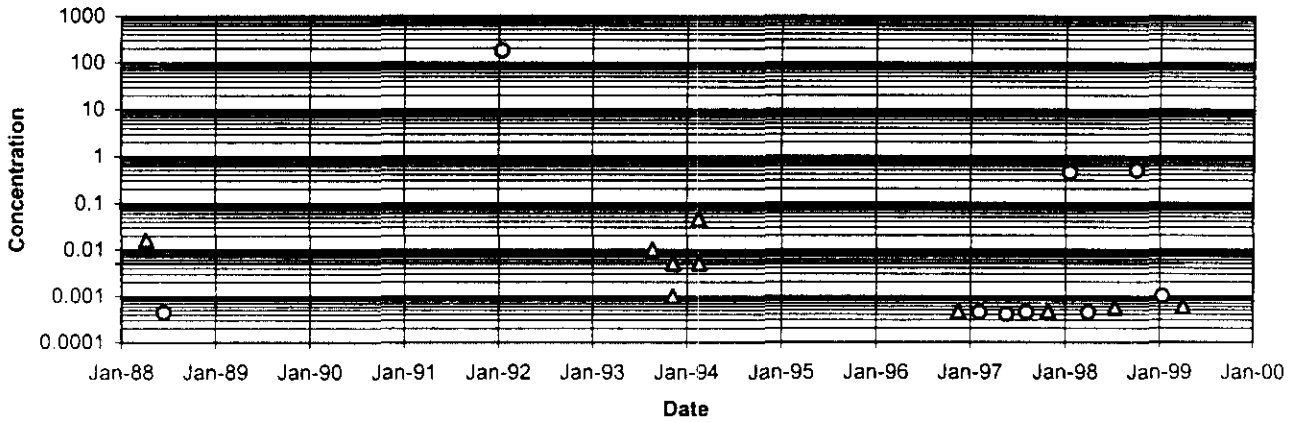
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

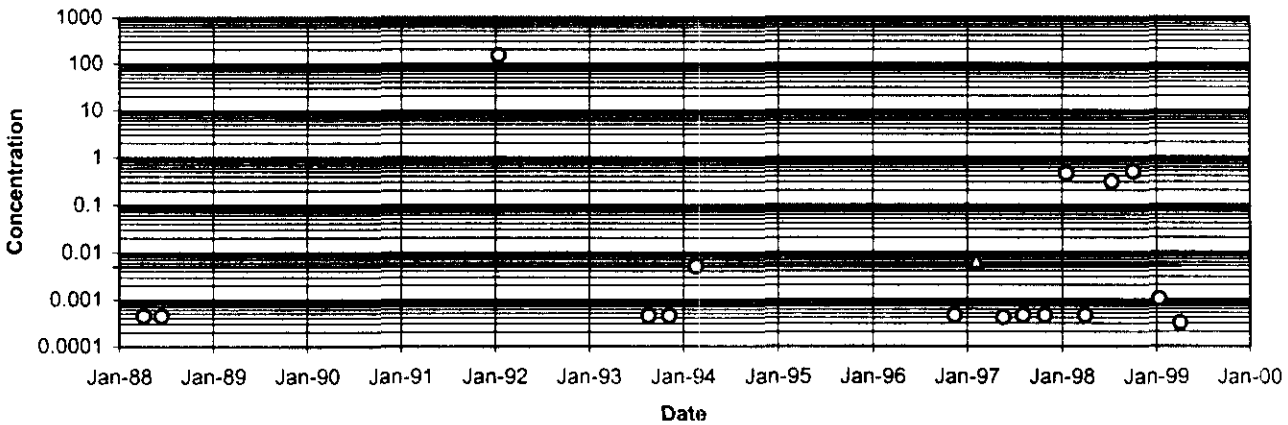
B15R



G109



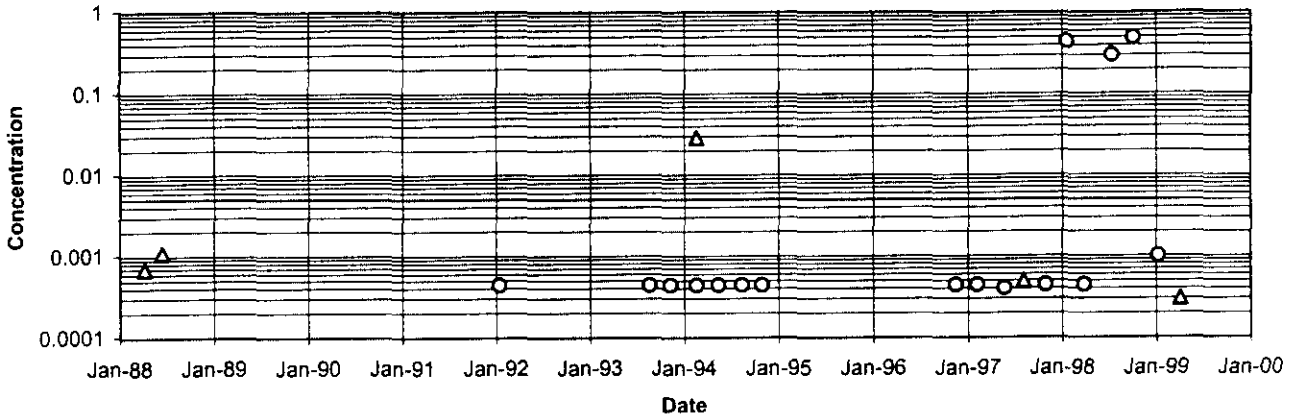
G109A



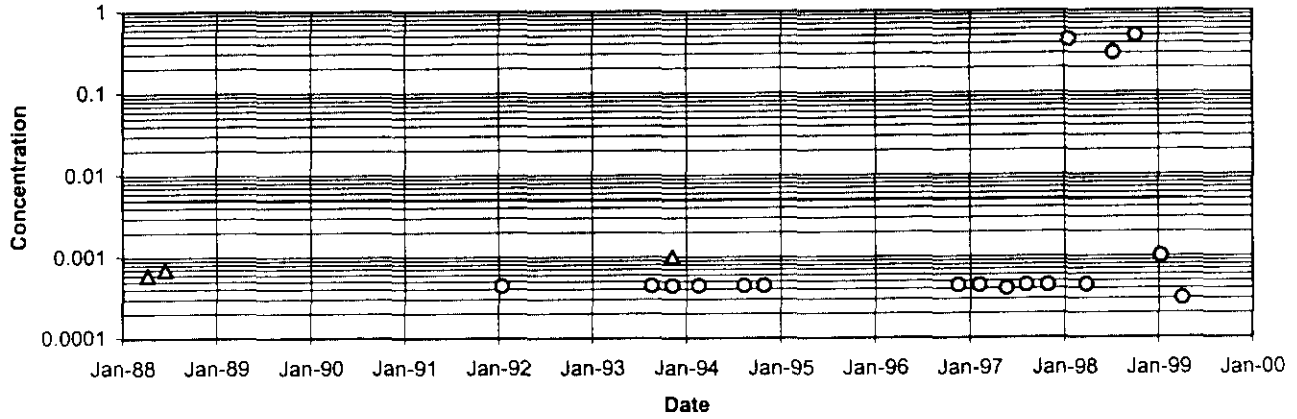
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

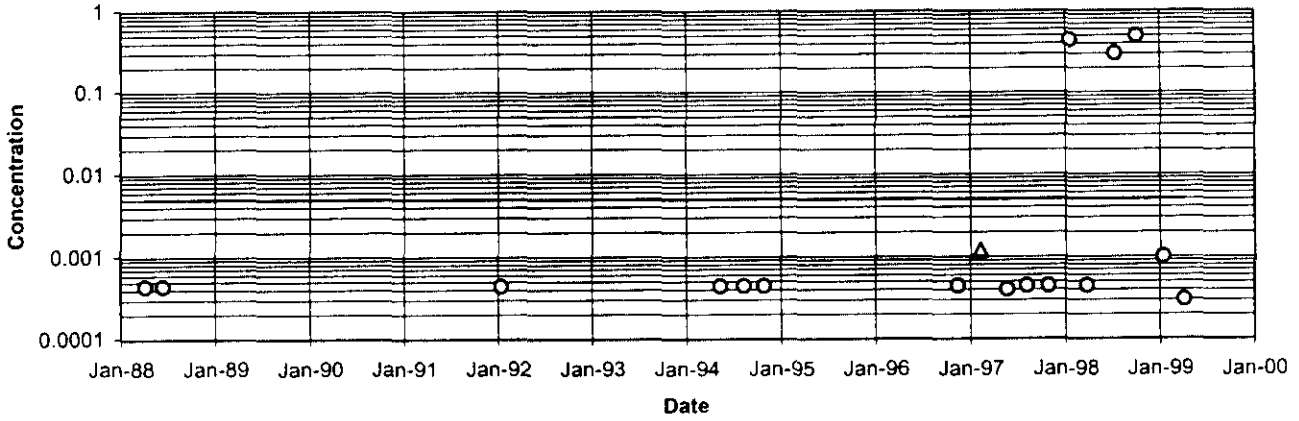
G113



G113A



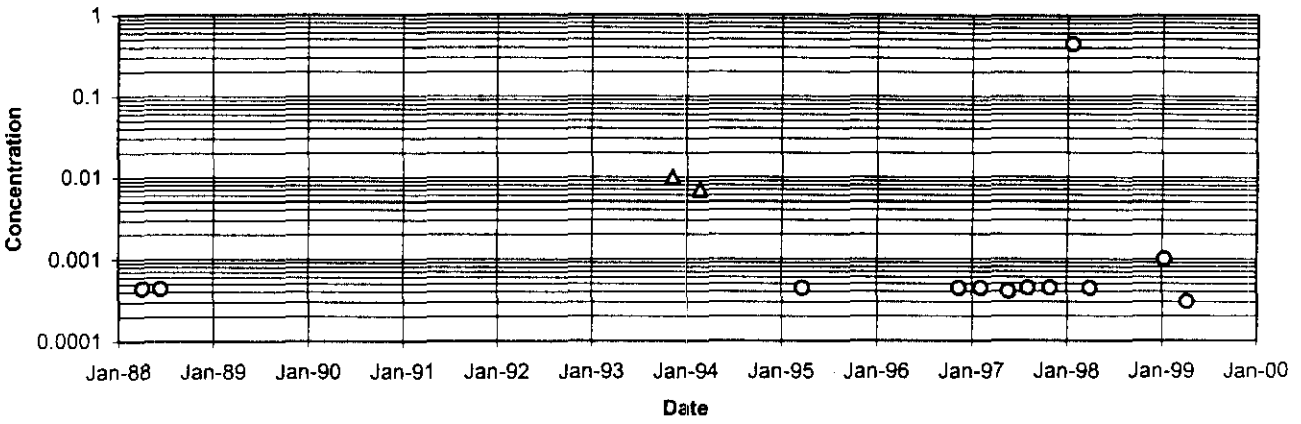
G114



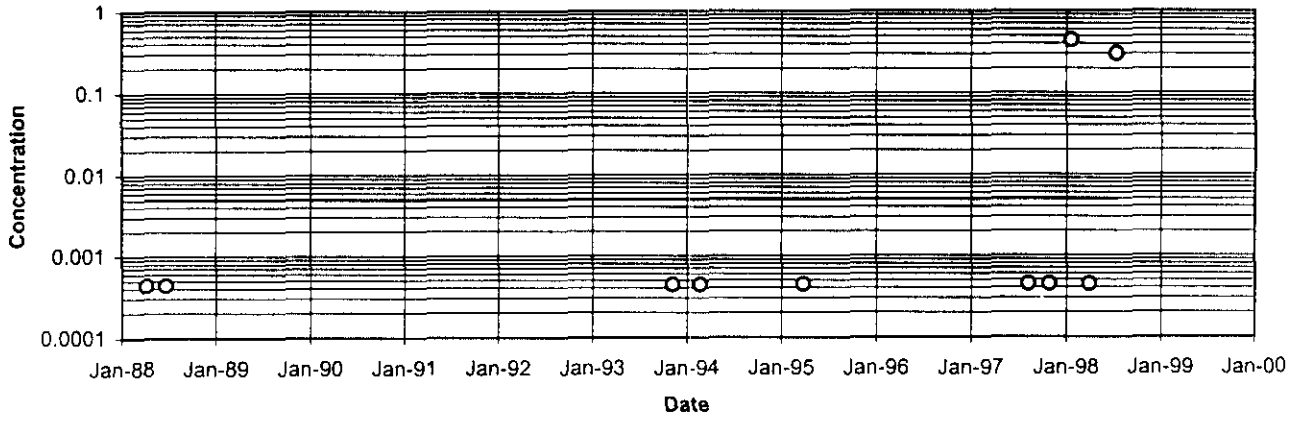
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

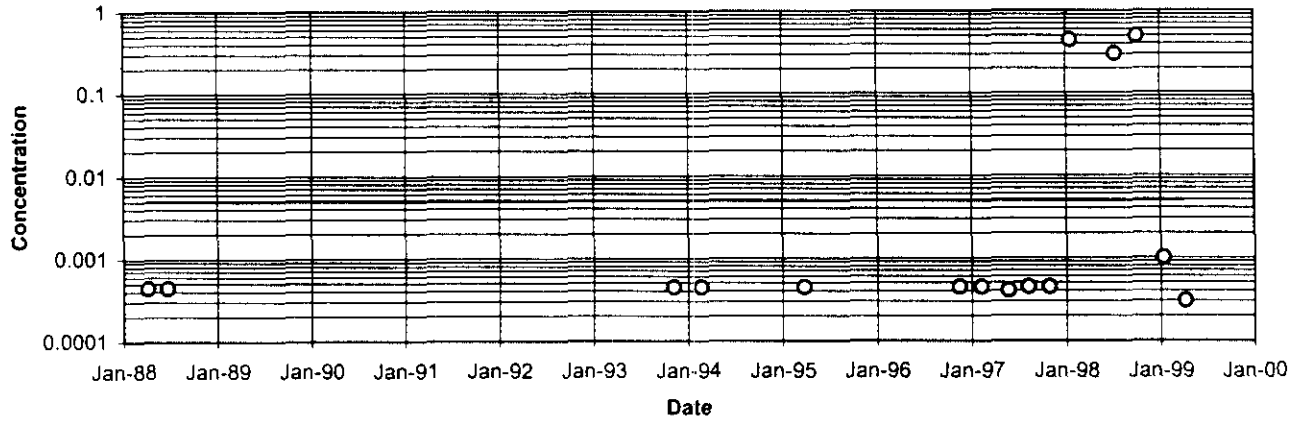
G115



G116



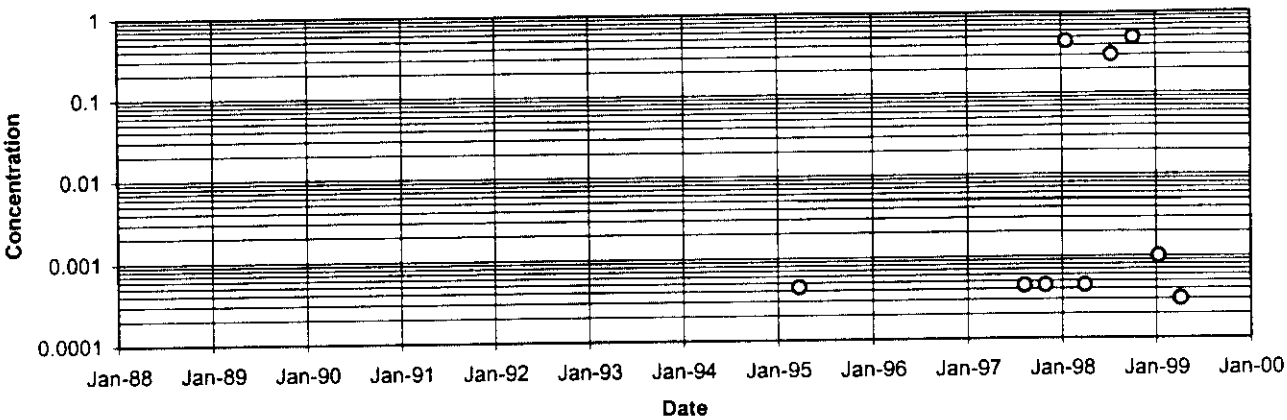
G116A



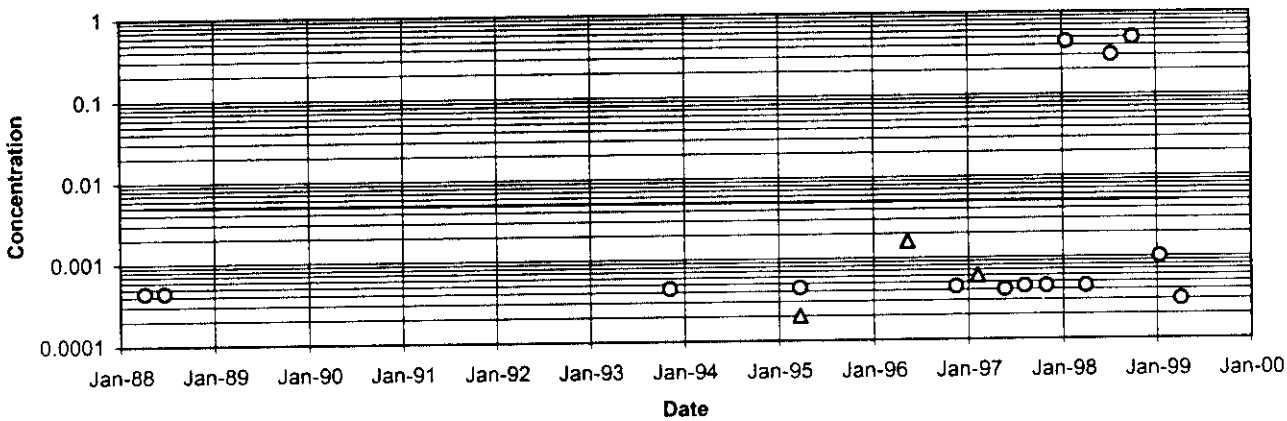
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

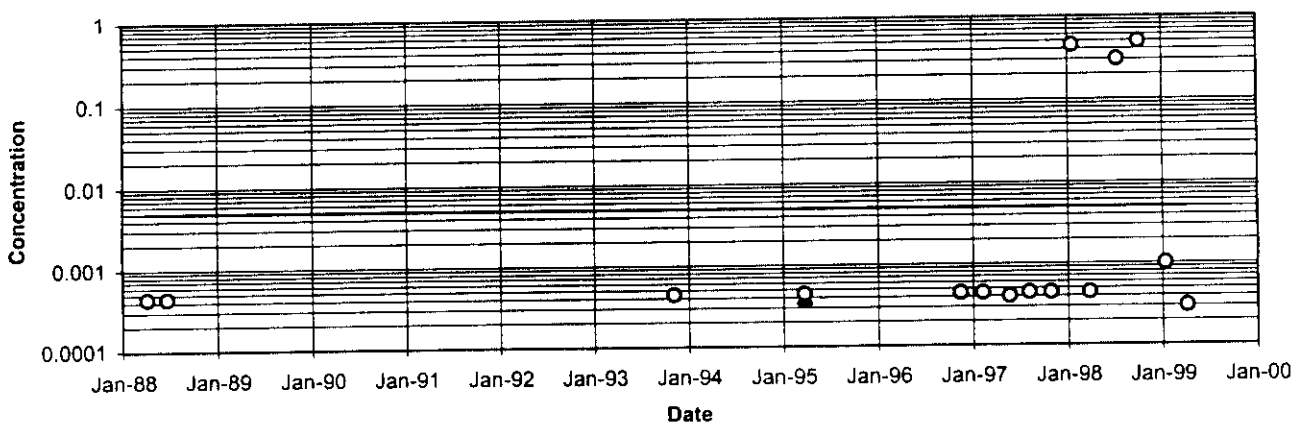
G116D



G117



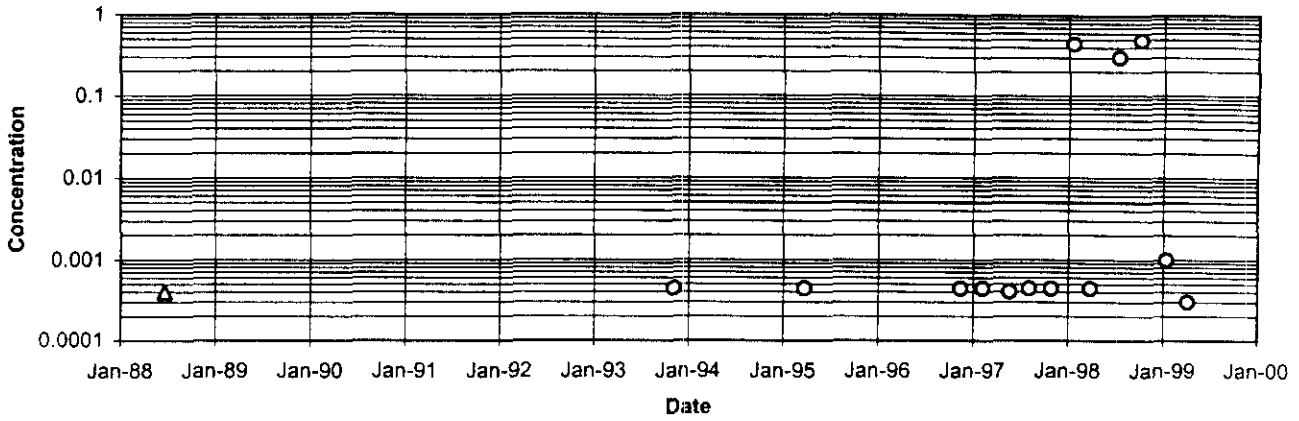
G118A



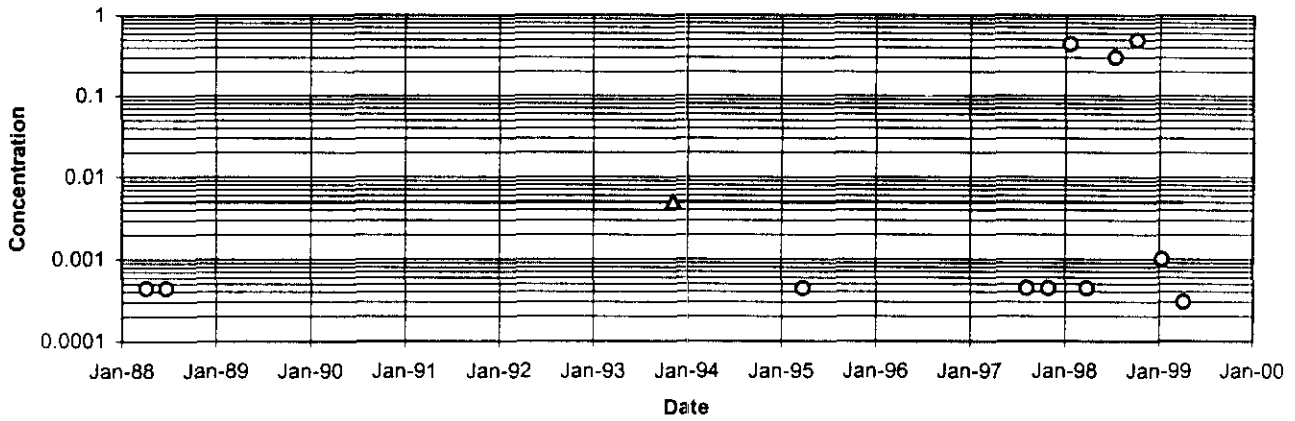
Cadmium (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

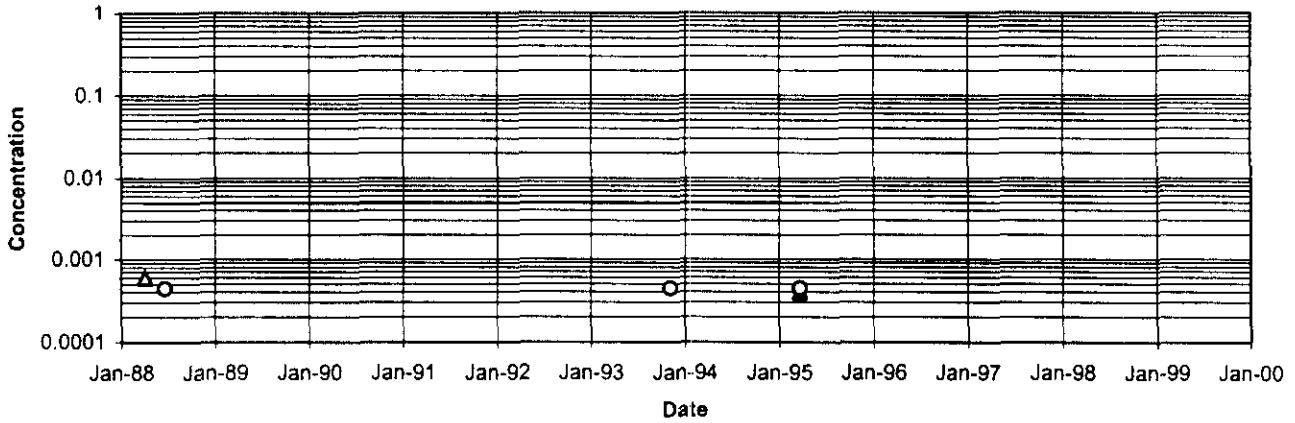
G118R



G119



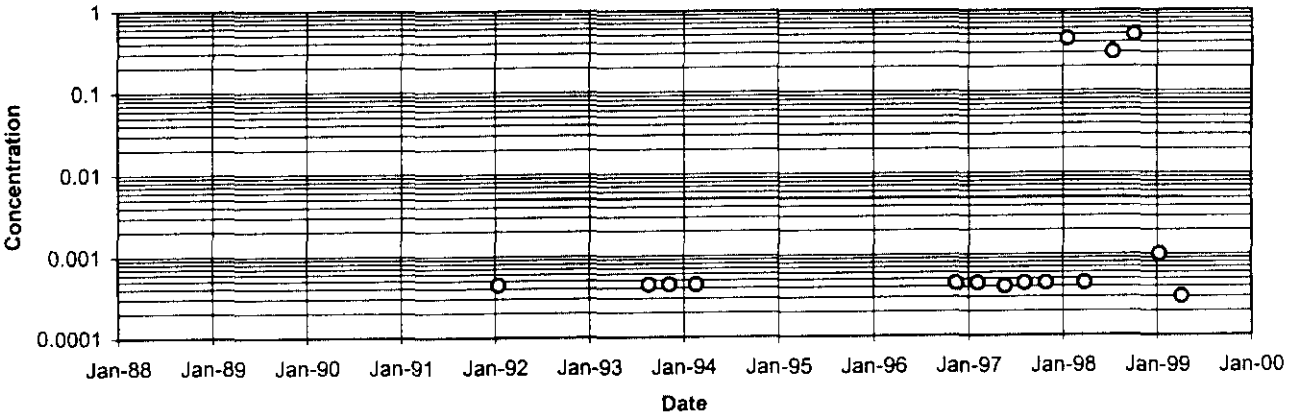
G119A



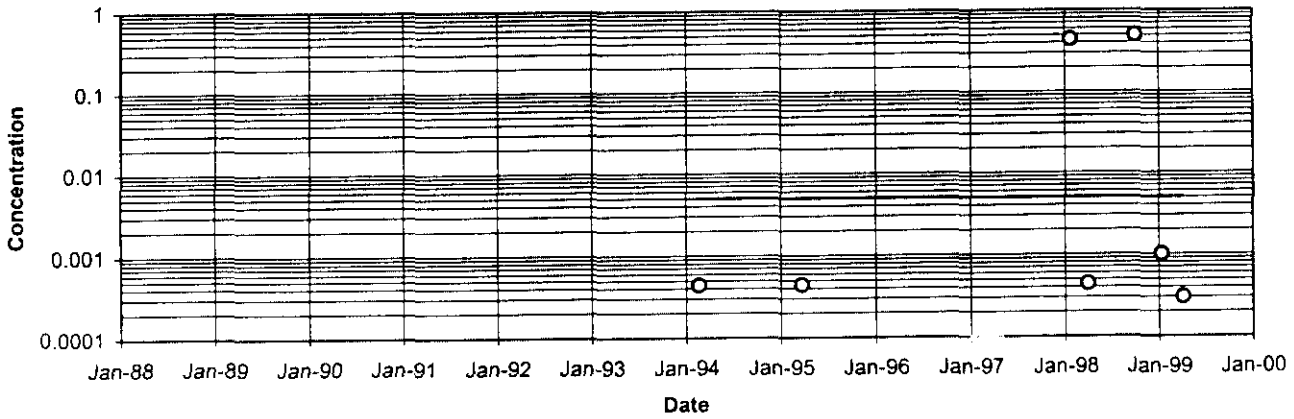
Cadmium (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

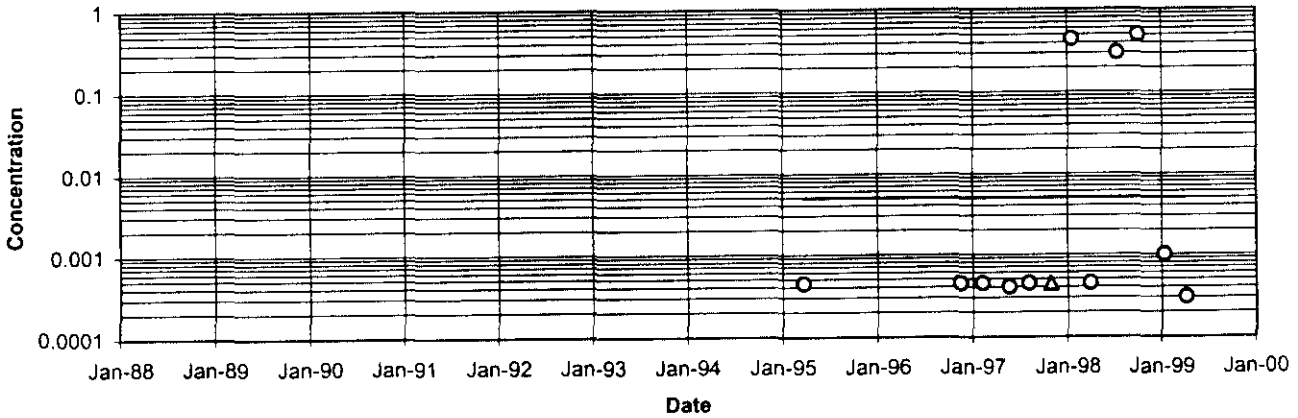
G120B



G130



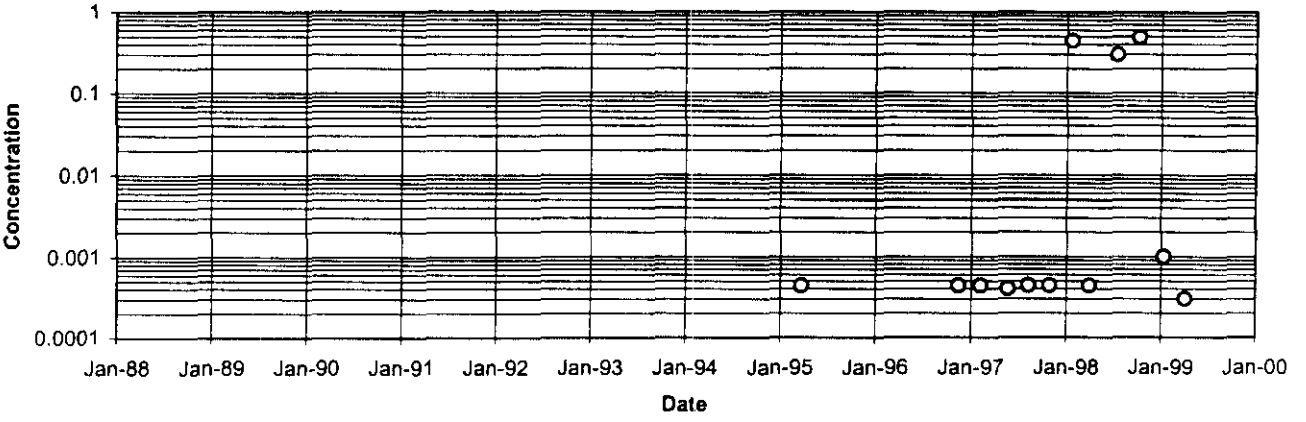
G132



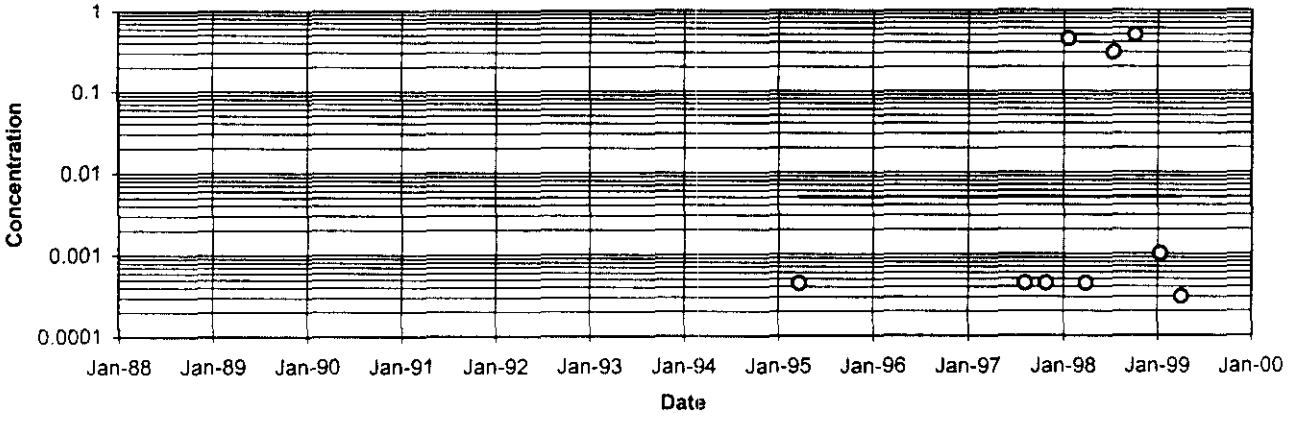
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

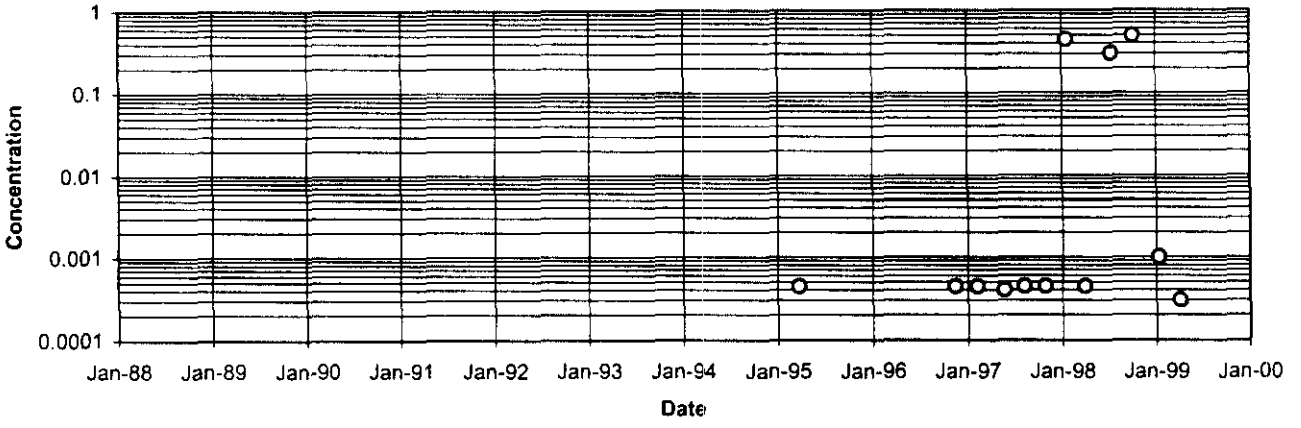
G33D



G33S



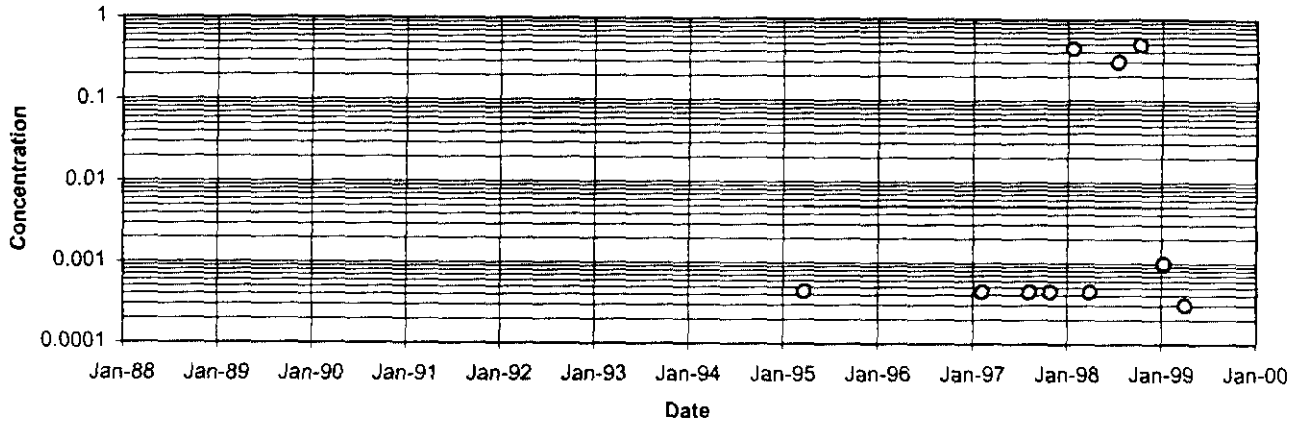
G34D



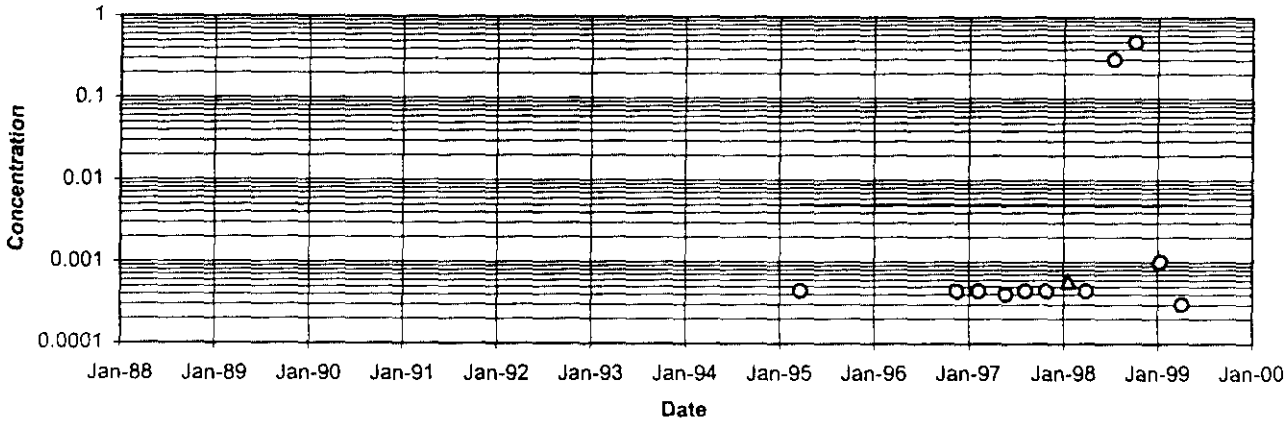
Cadmium (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

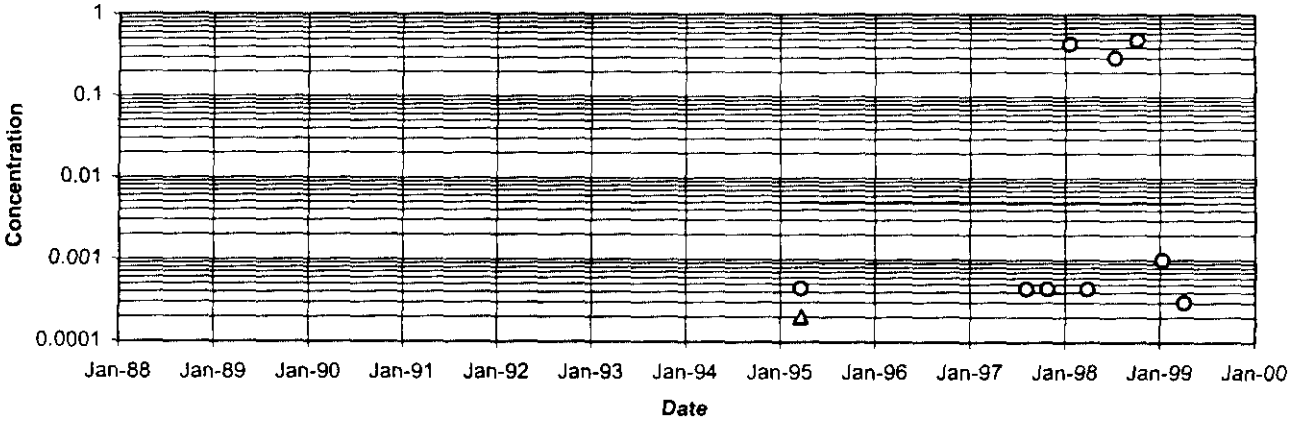
G34S



G35D



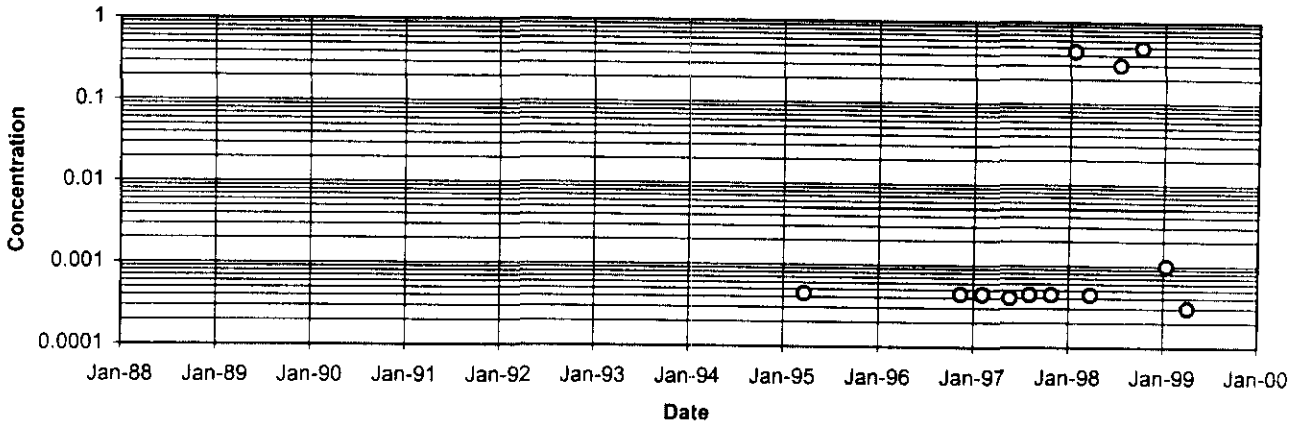
G35S



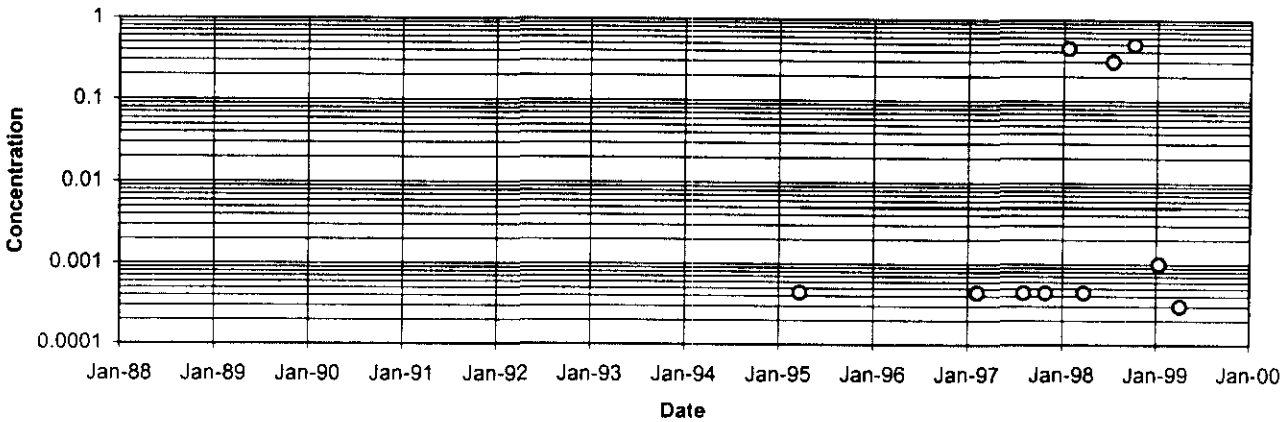
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

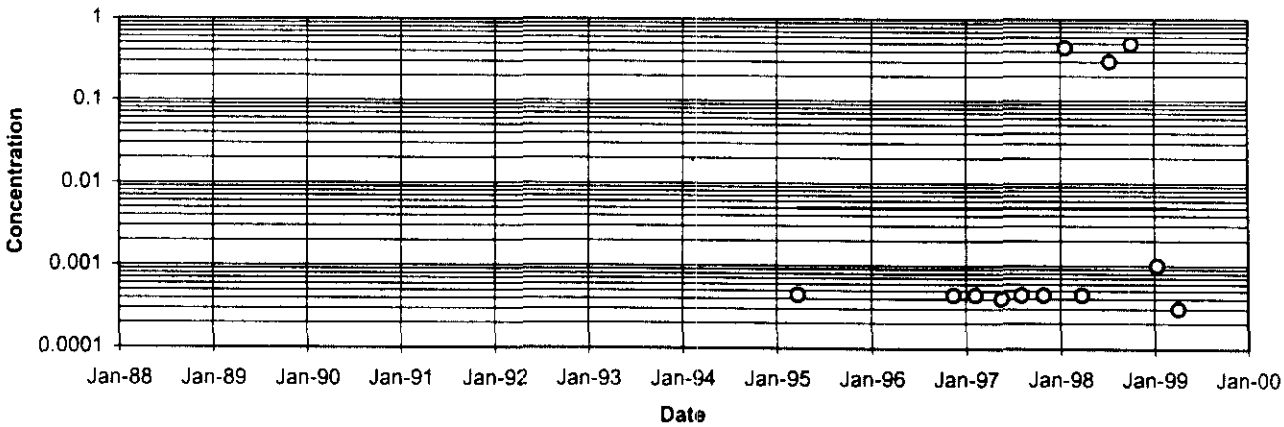
G36



G37D



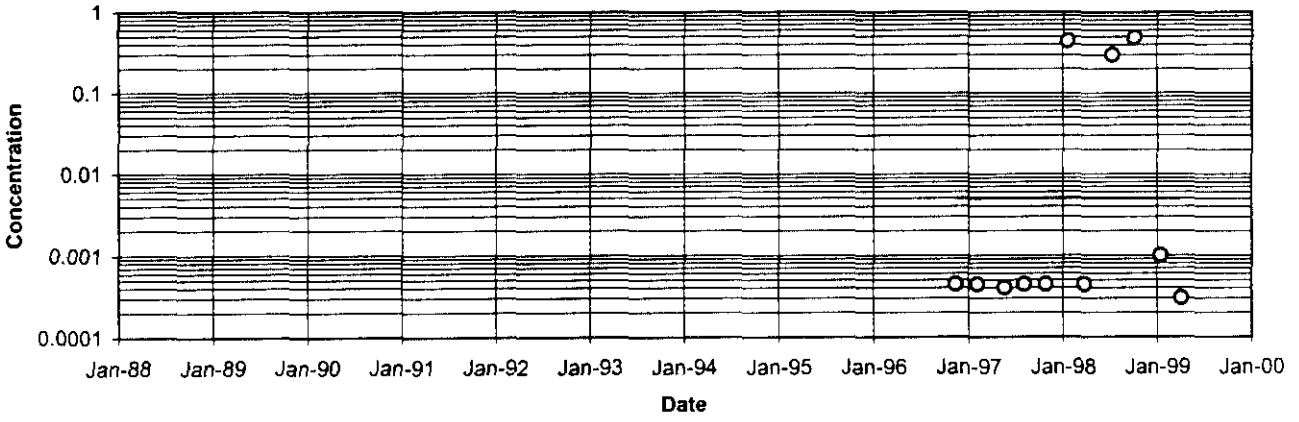
G37S



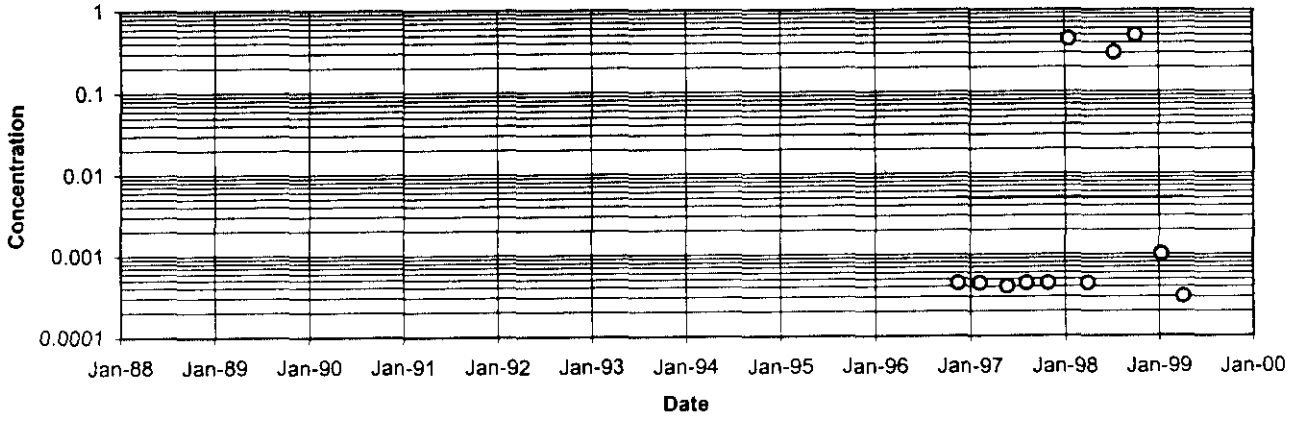
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

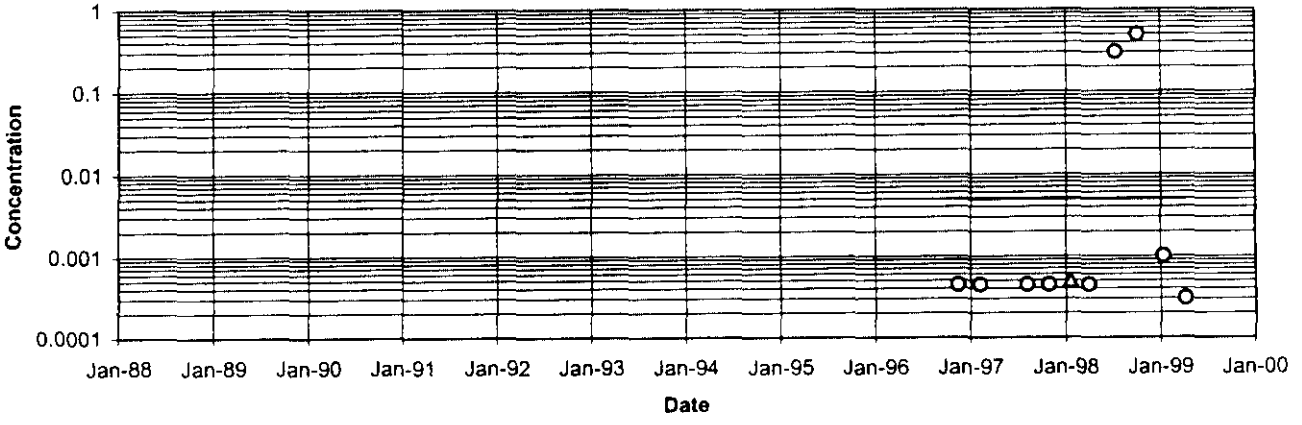
G38



G39



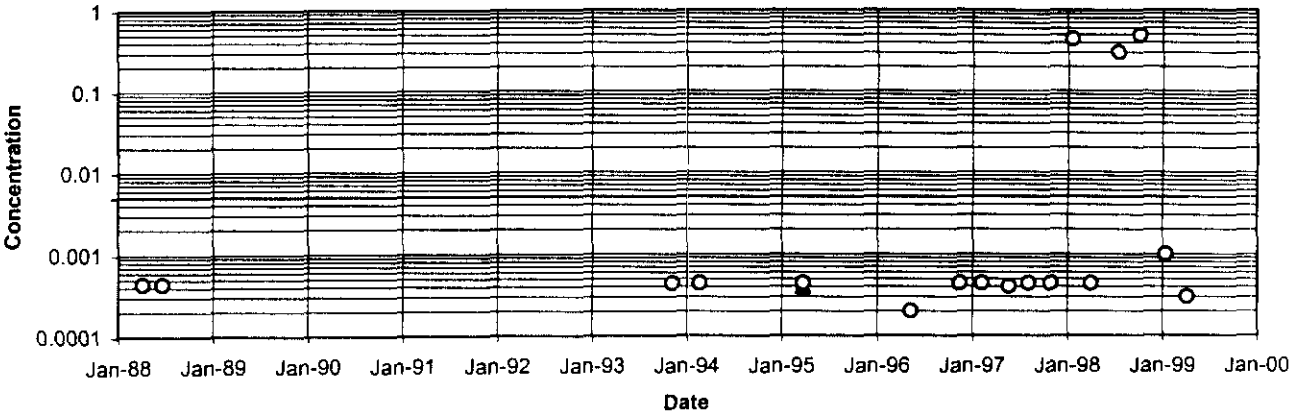
G40



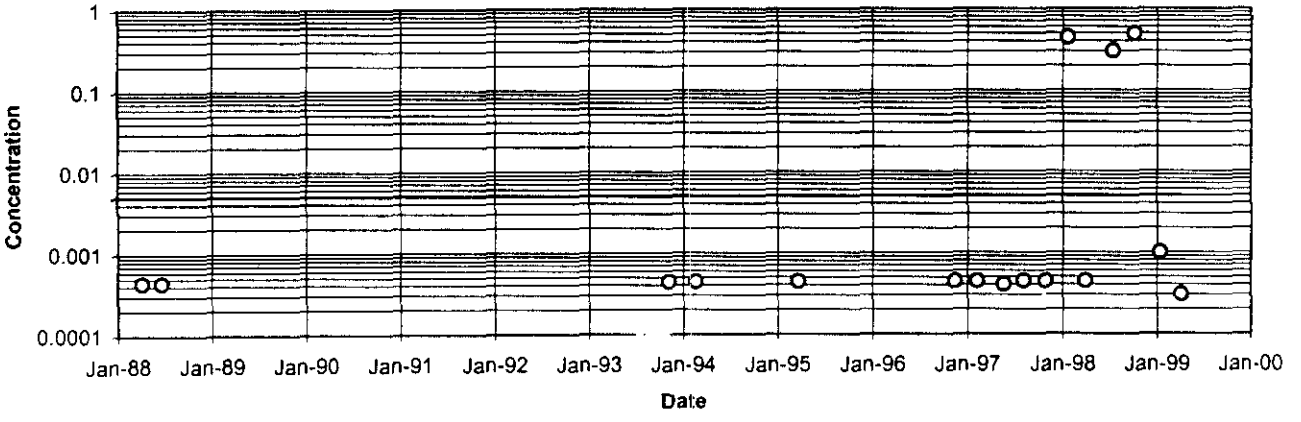
Cadmium (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

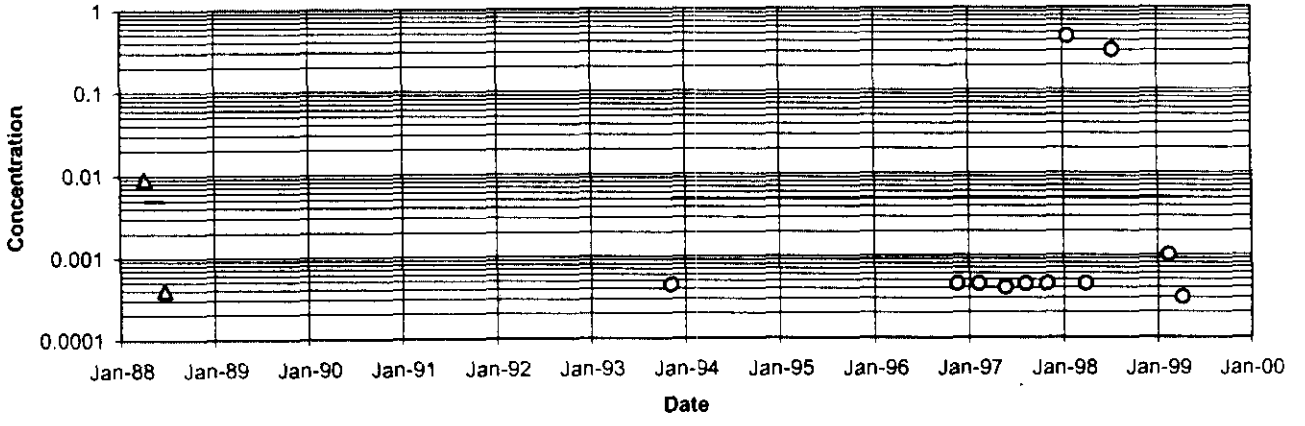
MW106



P1



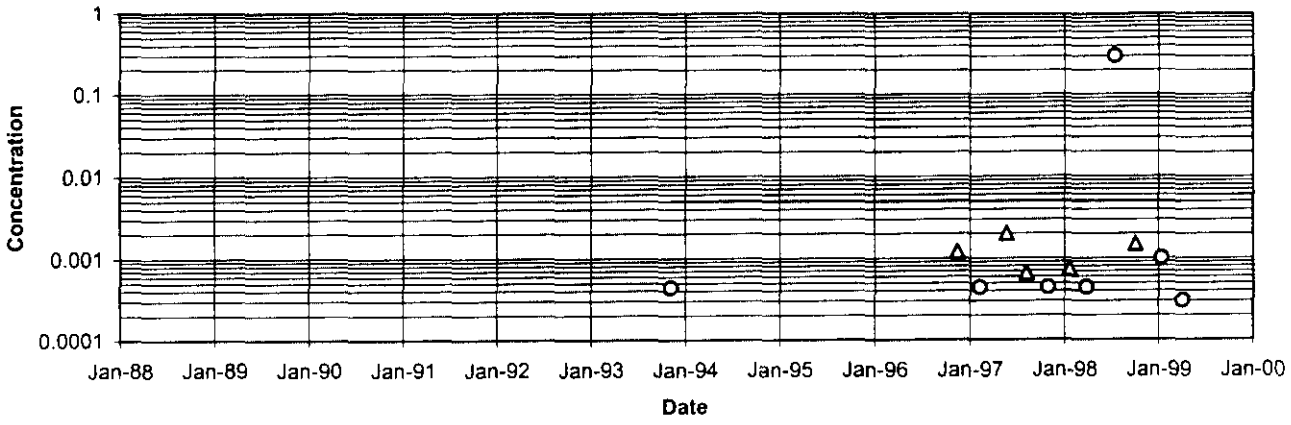
P3R



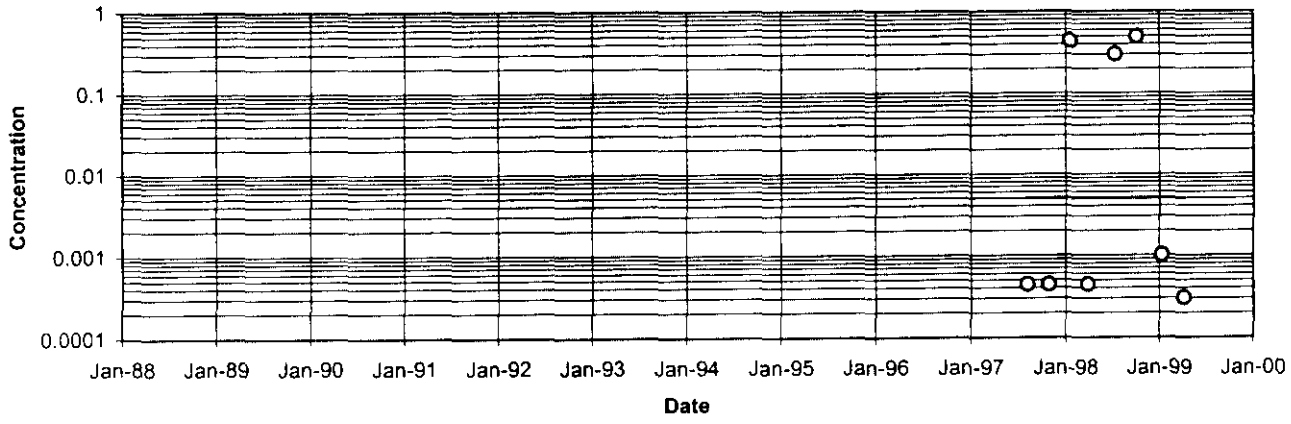
Cadmium (dis) (mg/L)

AGQS Δ Concentration O NonDetect

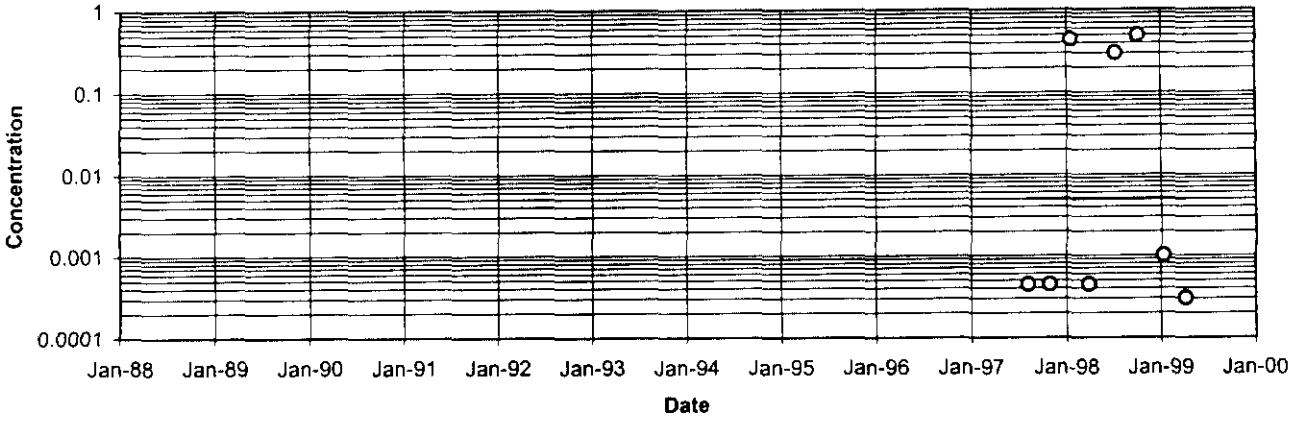
P4R



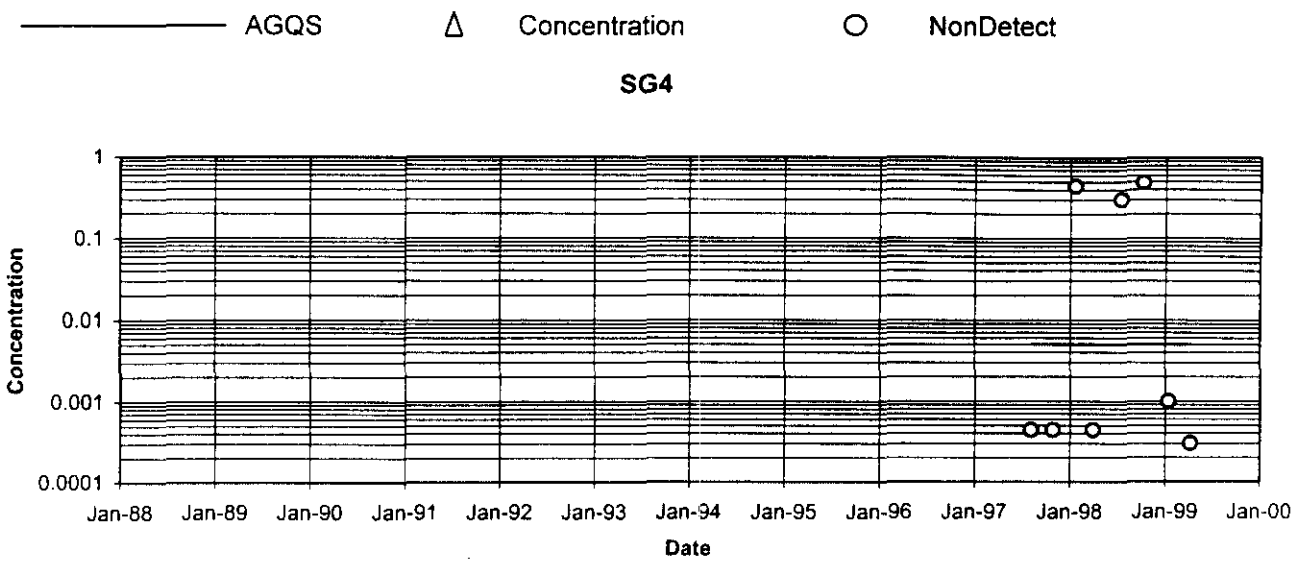
SG1



SG3



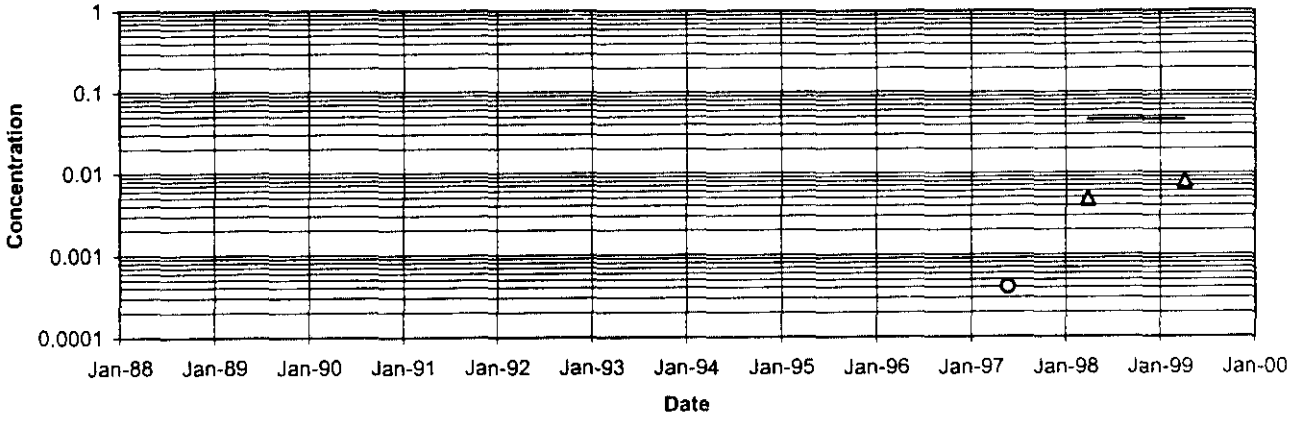
Cadmium (dis) (mg/L)



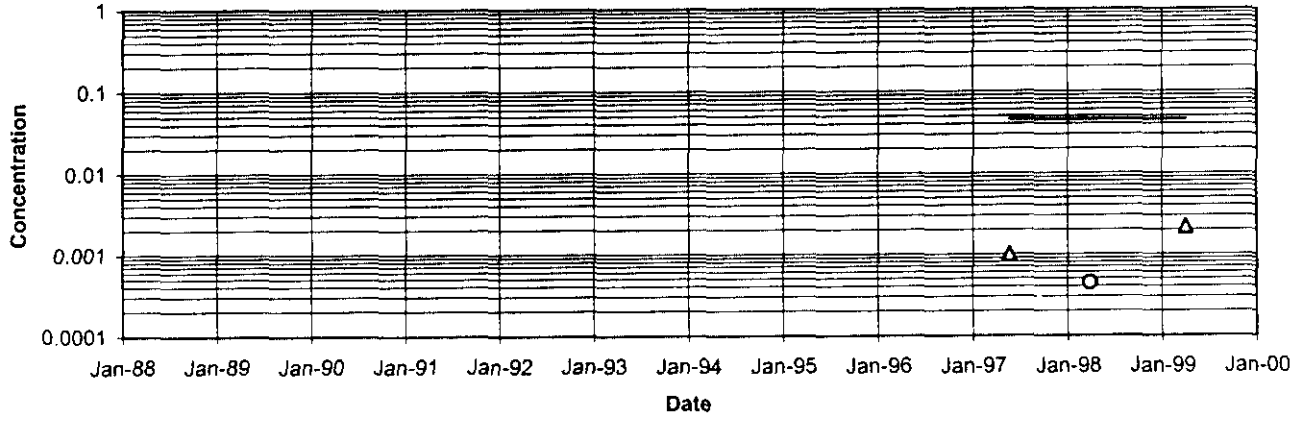
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

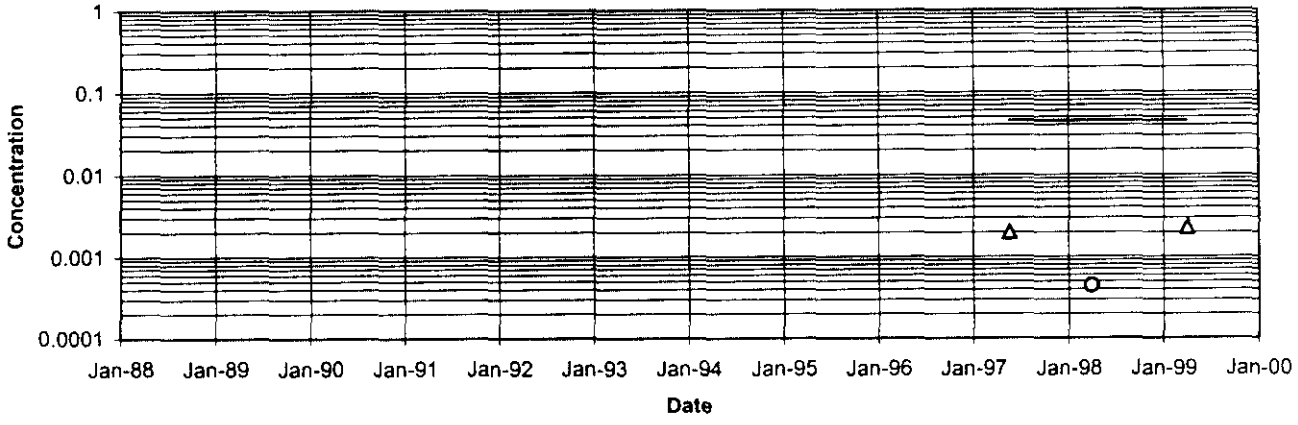
B15R



G109



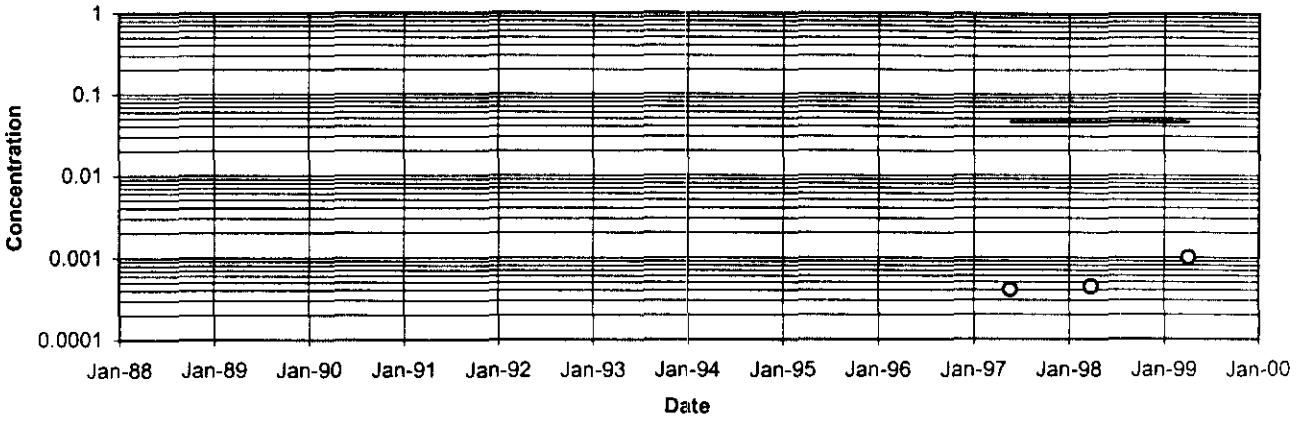
G109A



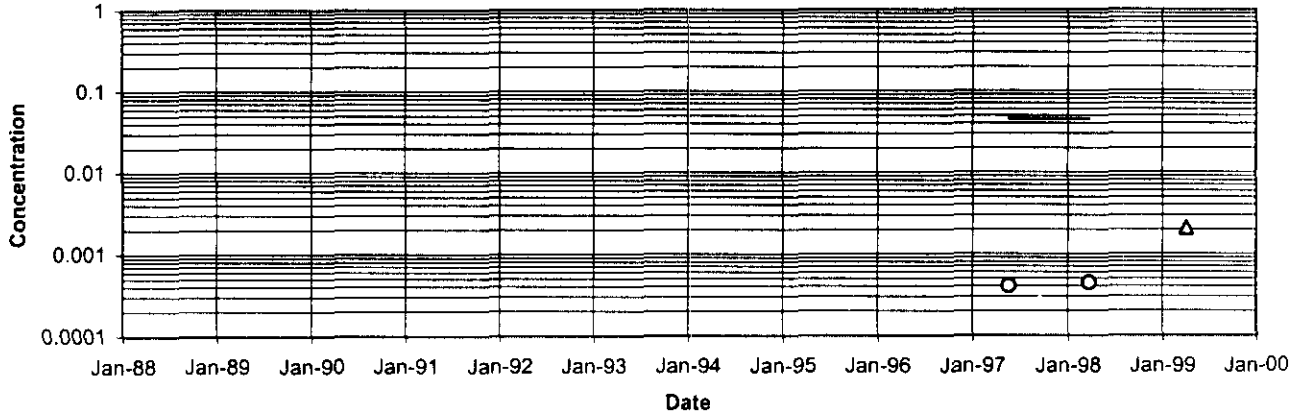
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

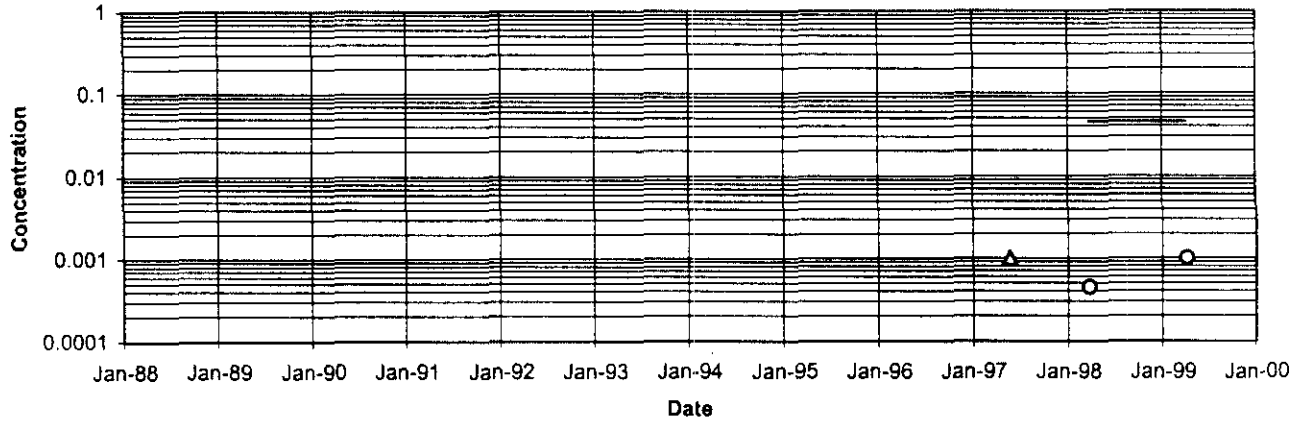
G113



G113A



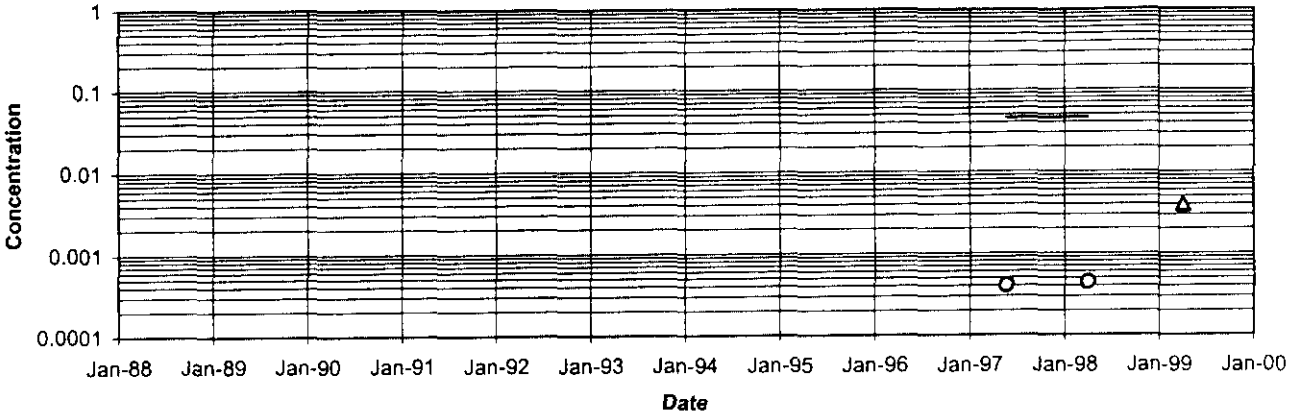
G114



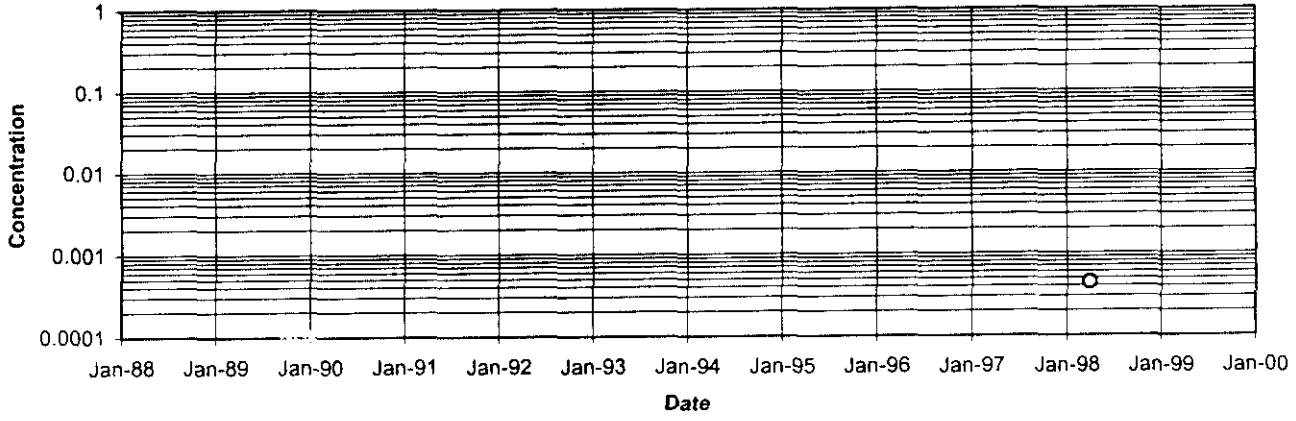
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

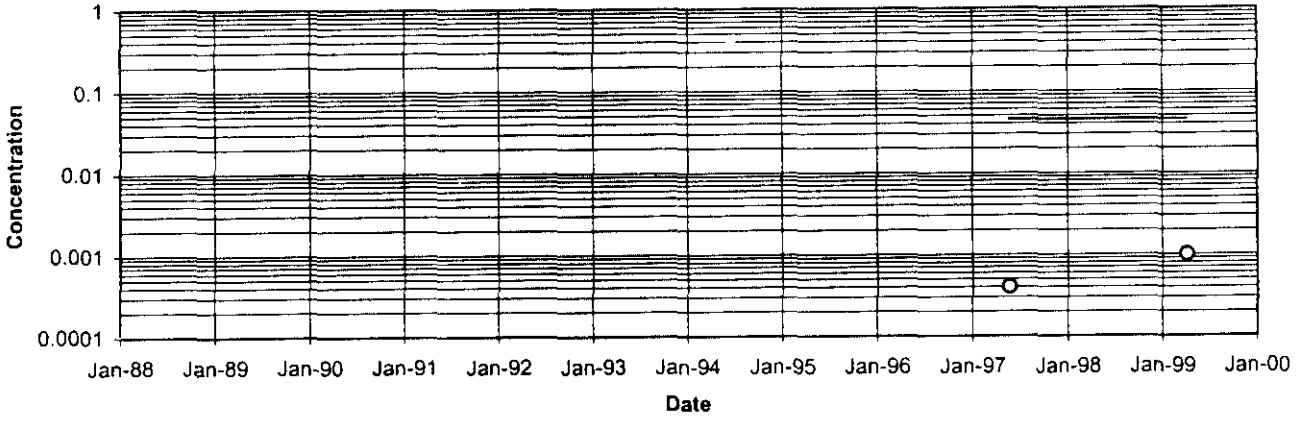
G115



G116



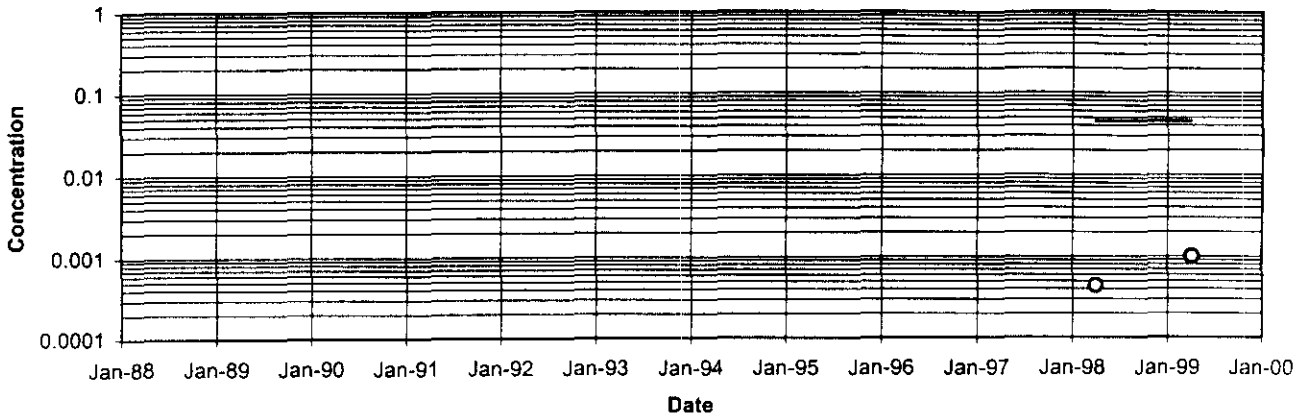
G116A



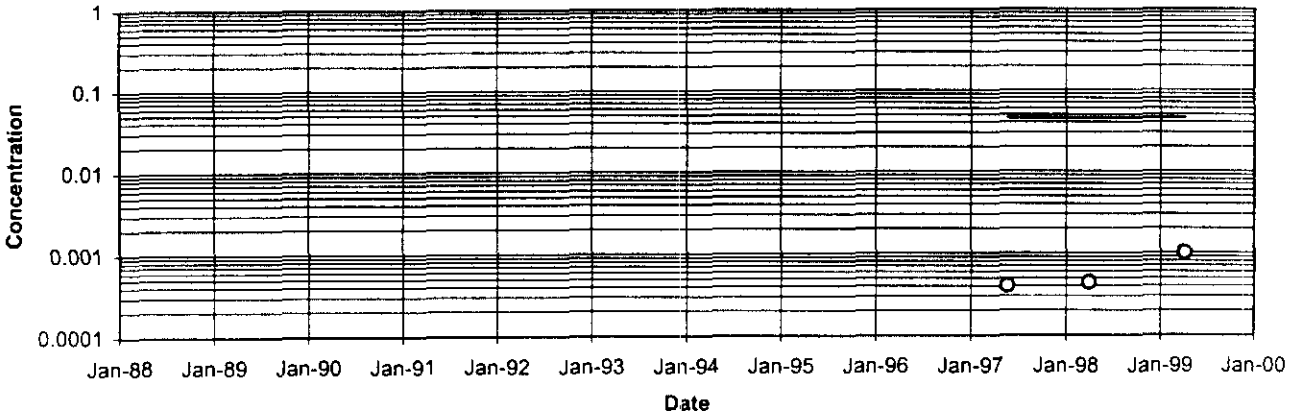
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

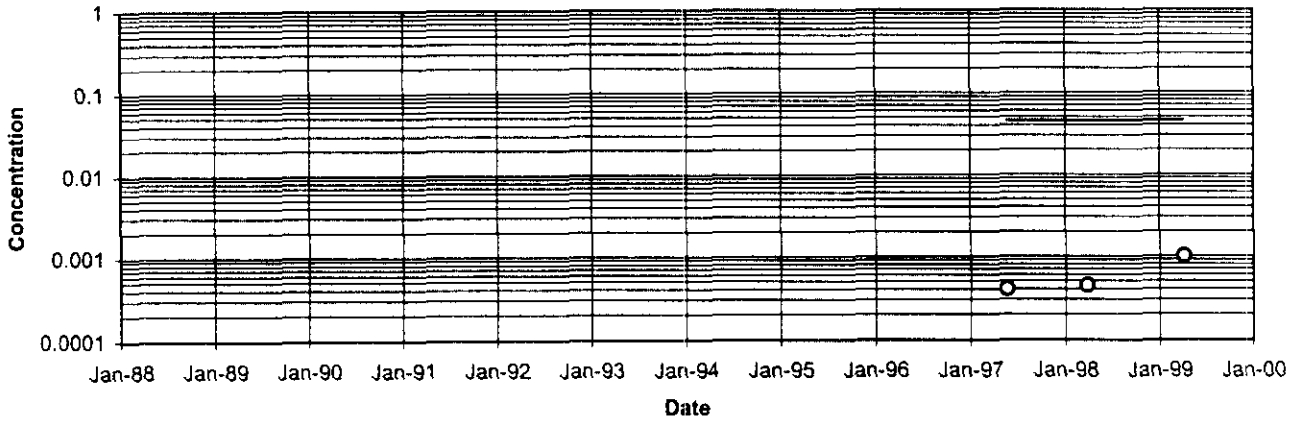
G116D



G117



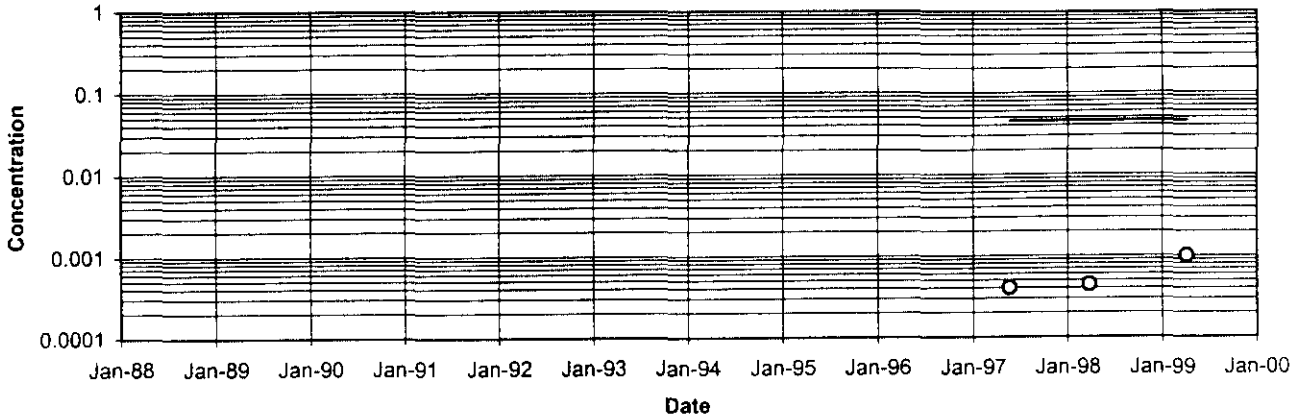
G118A



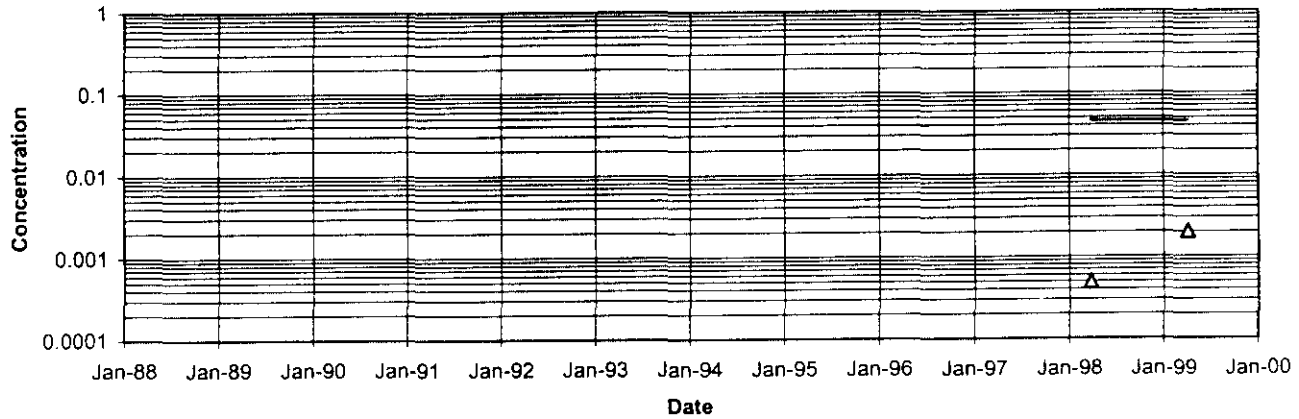
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

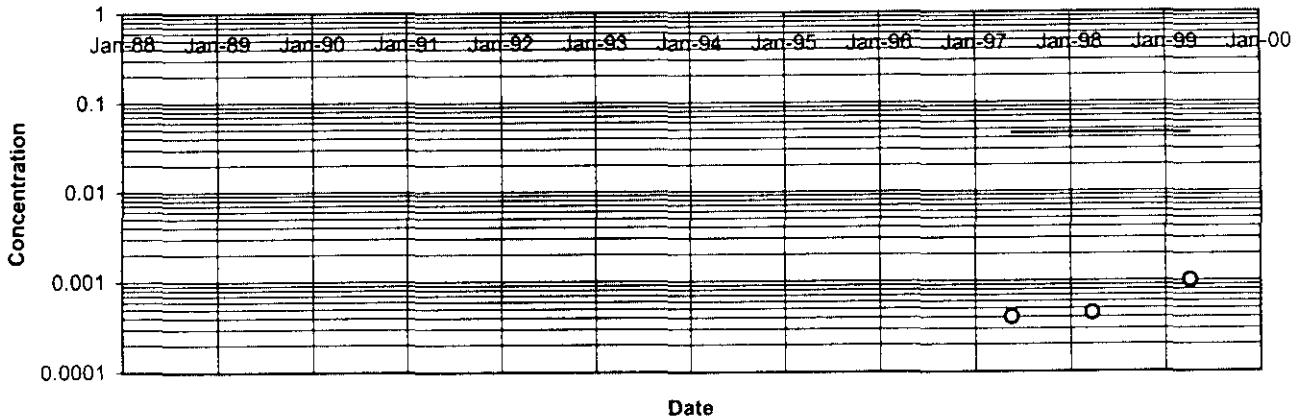
G118R



G119



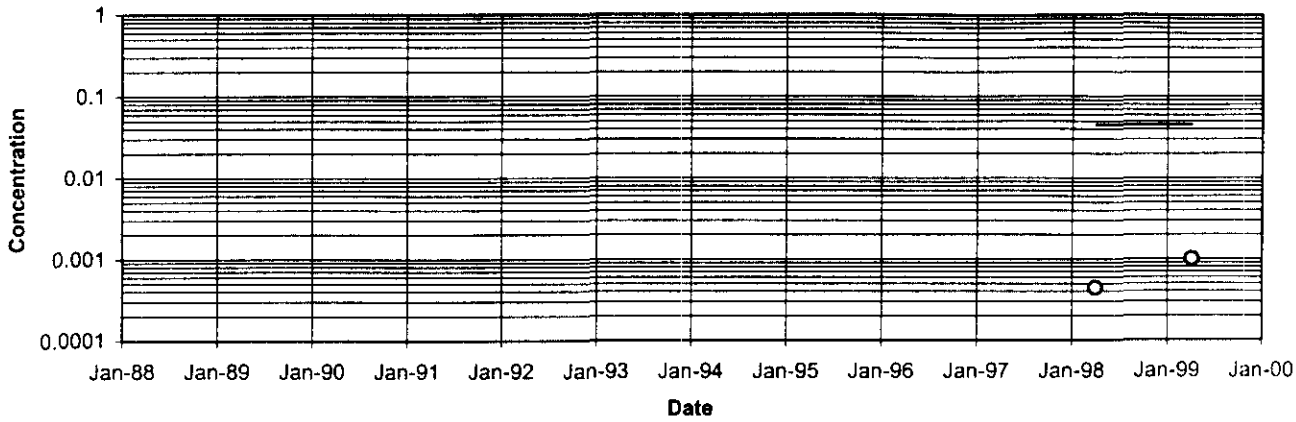
G120B



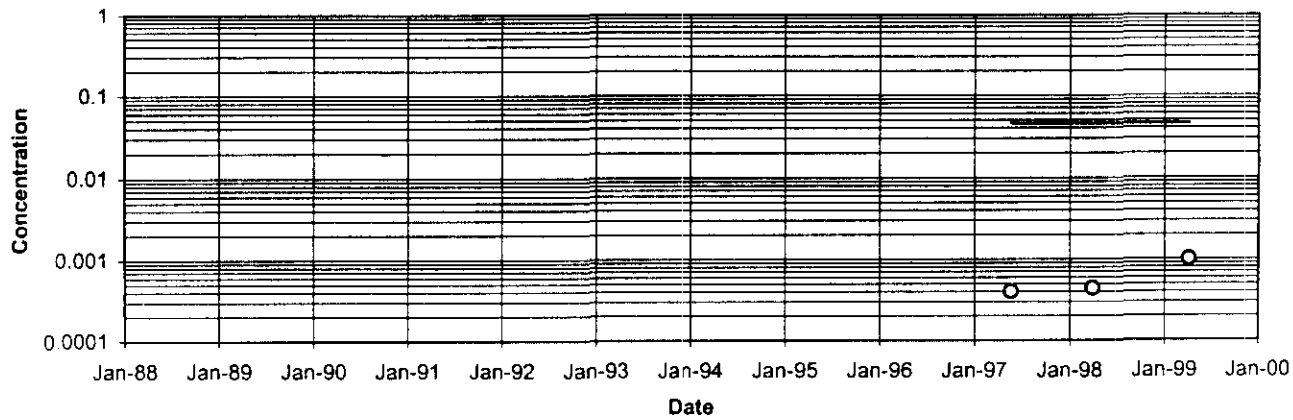
Cadmium (mg/L)

AGQS Δ Concentration ○ NonDetect

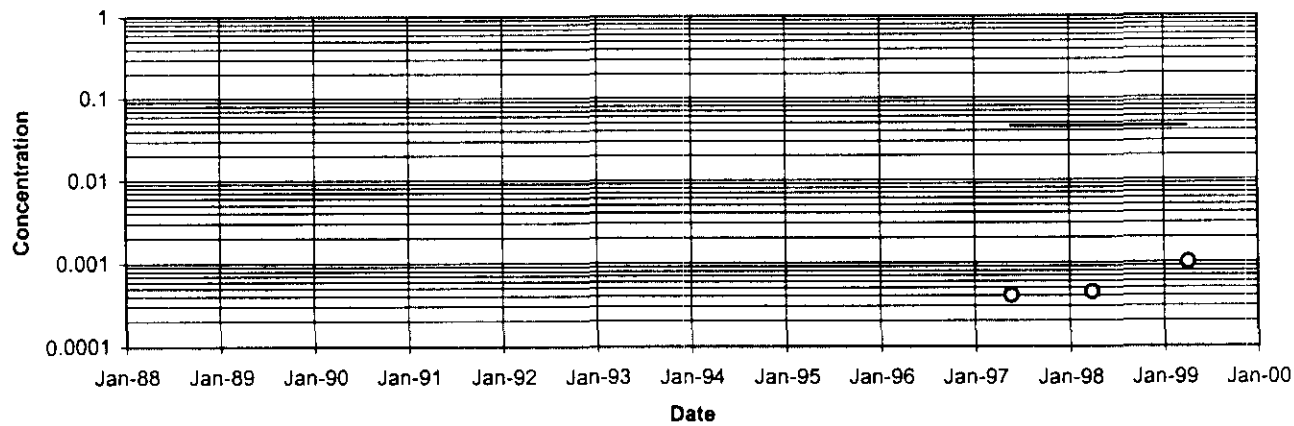
G130



G132



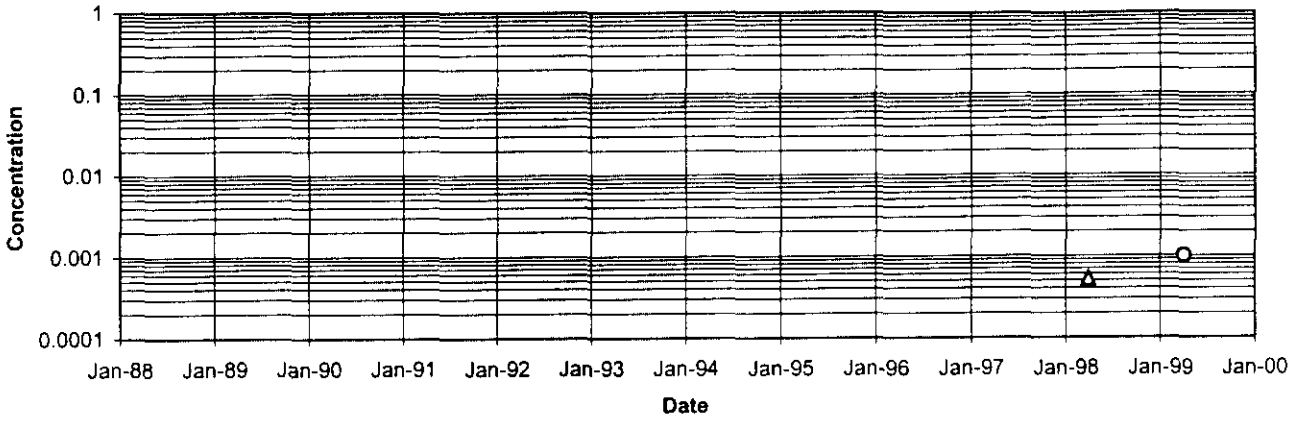
G33D



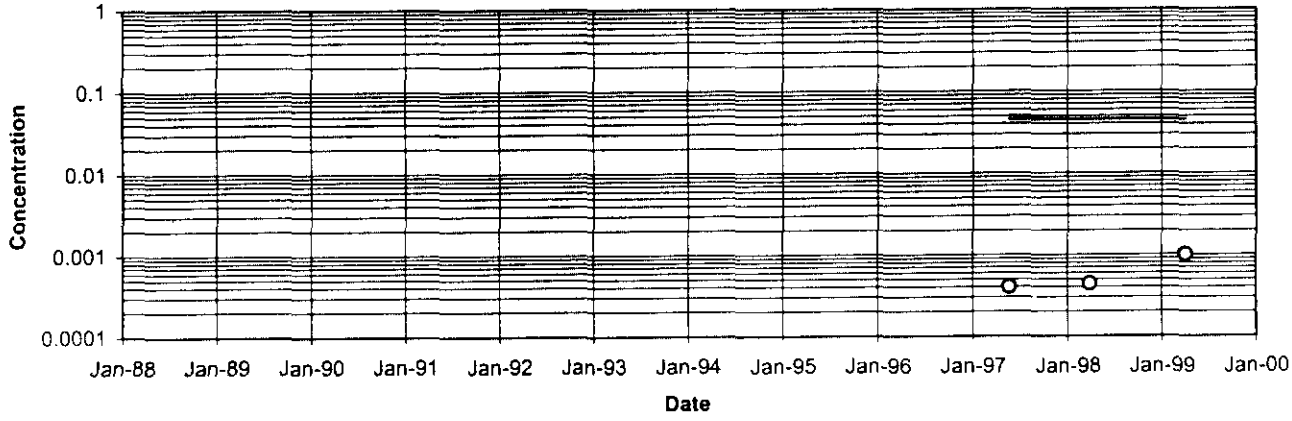
Cadmium (mg/L)

AGQS Δ Concentration ○ NonDetect

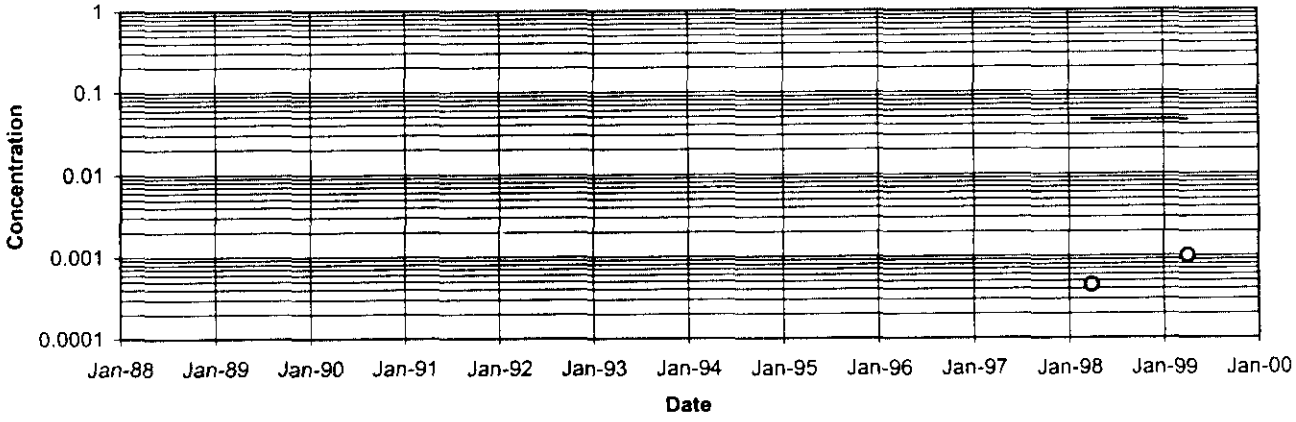
G33S



G34D



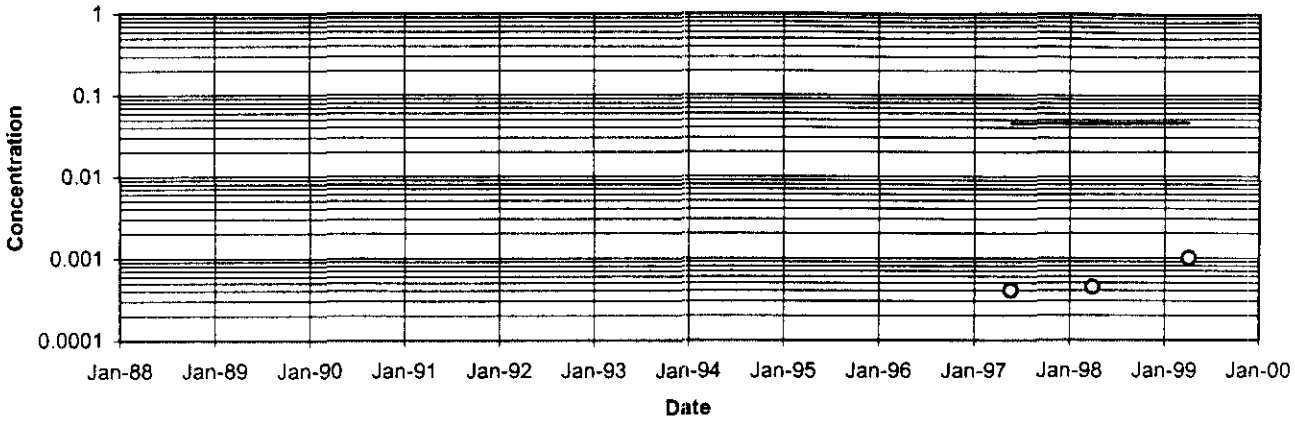
G34S



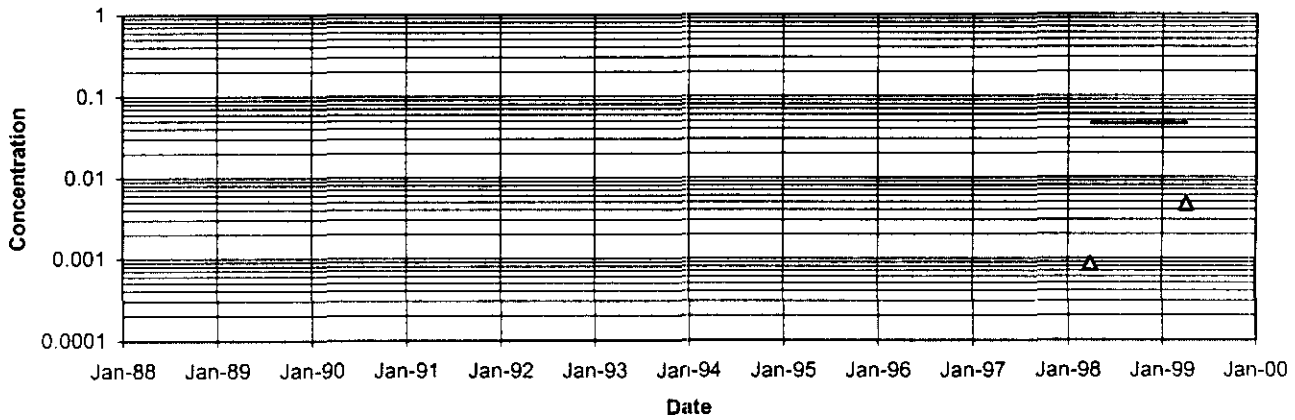
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

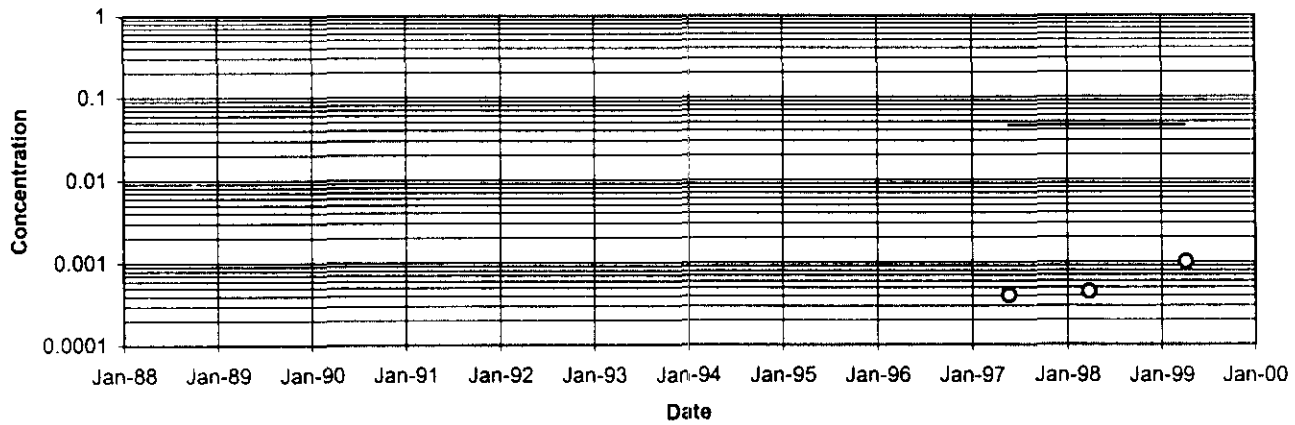
G35D



G35S



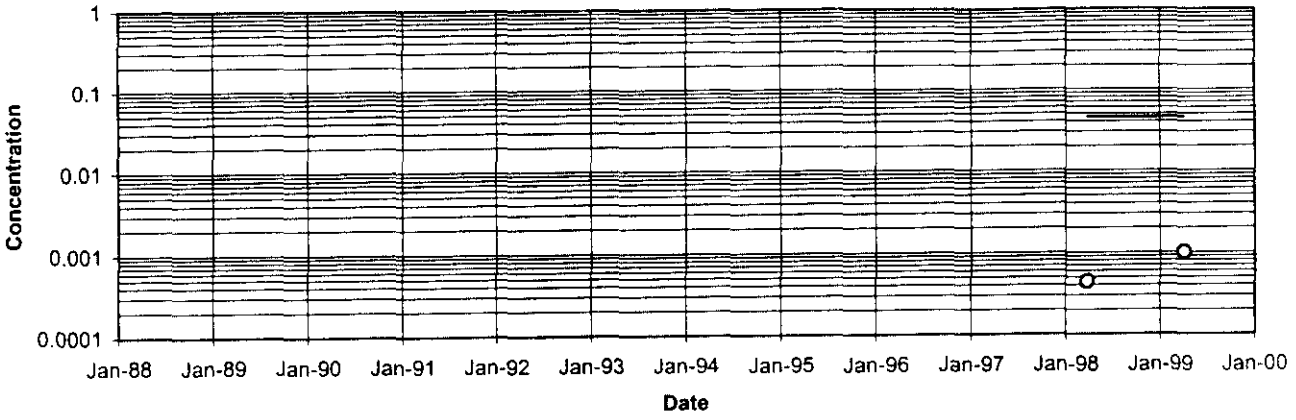
G36



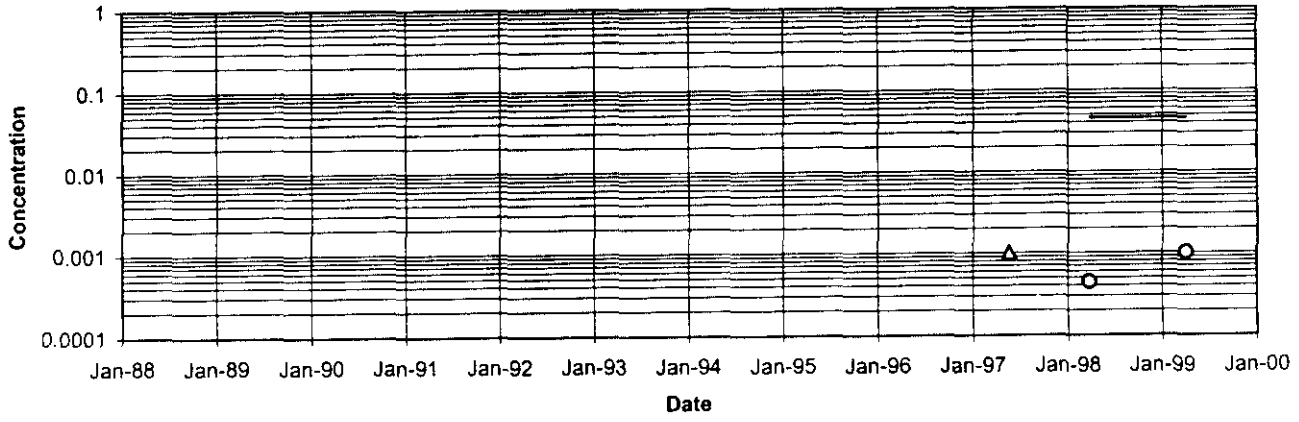
Cadmium (mg/L)

AGQS Δ Concentration ○ NonDetect

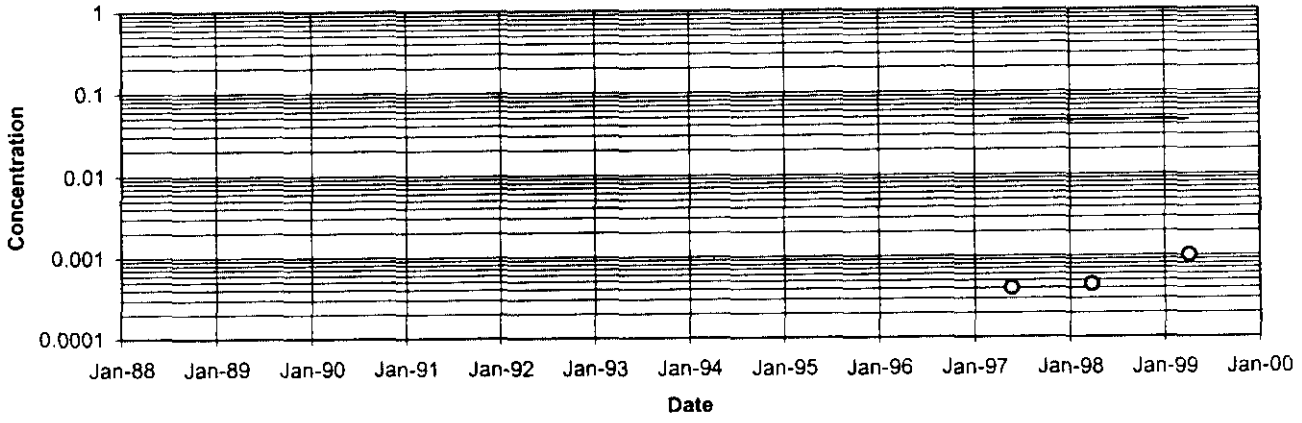
G37D



G37S



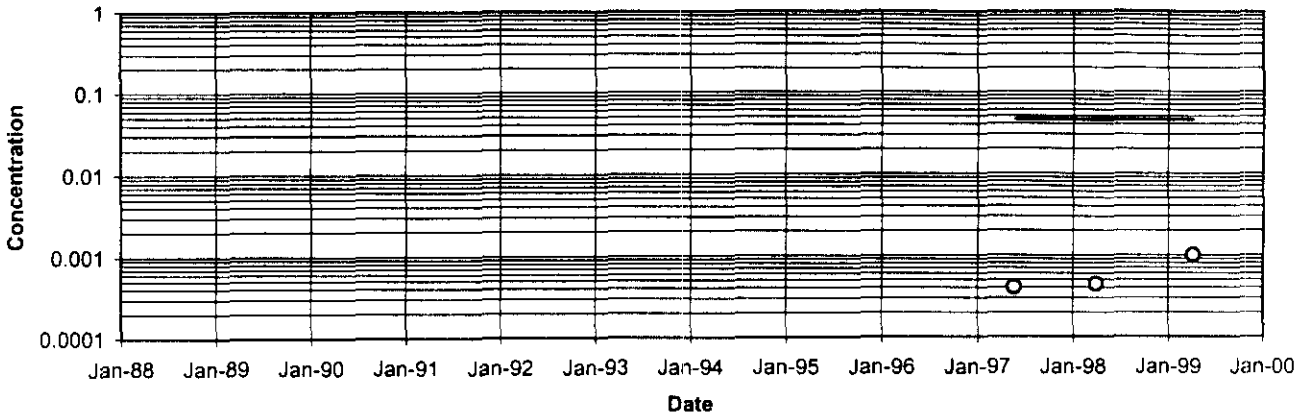
G38



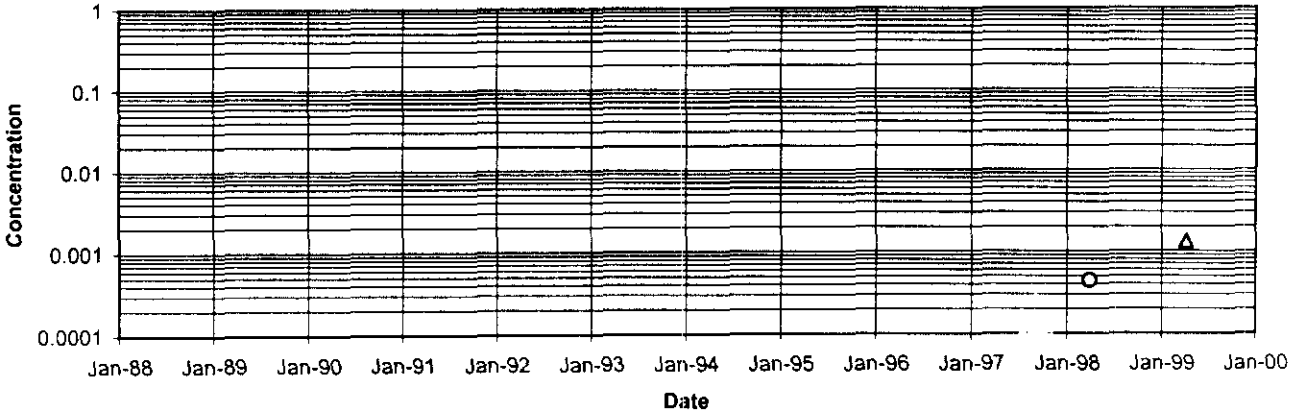
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

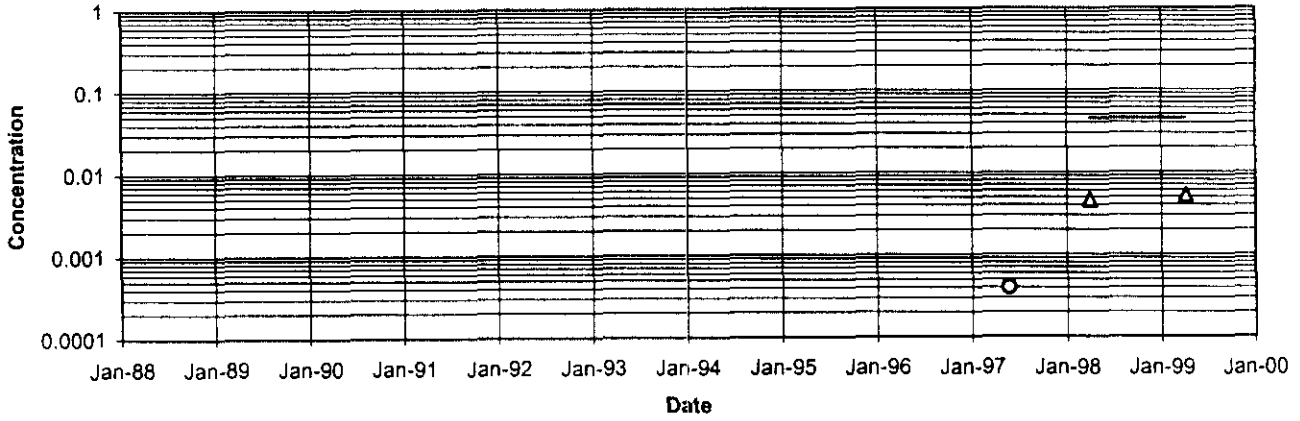
G39



G40



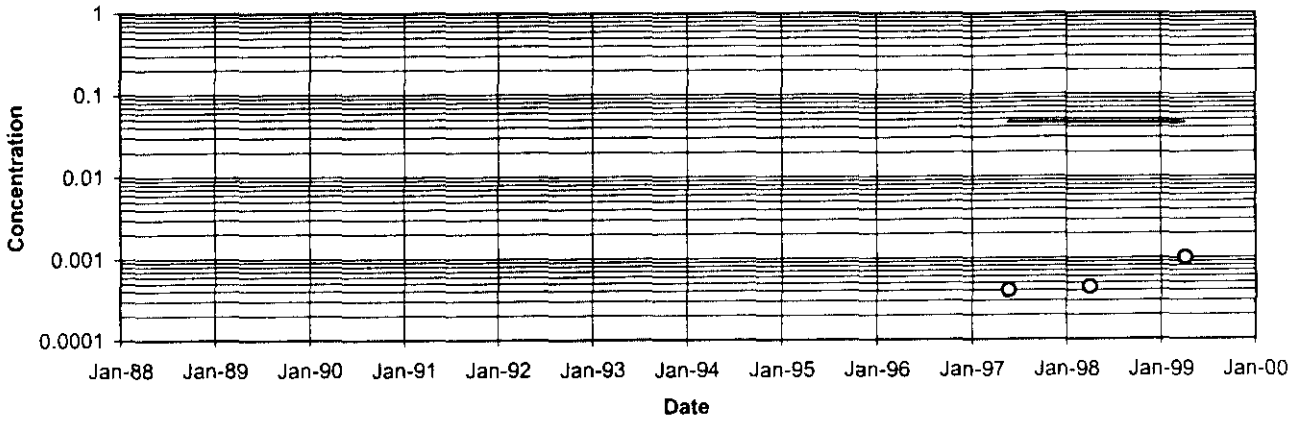
MW106



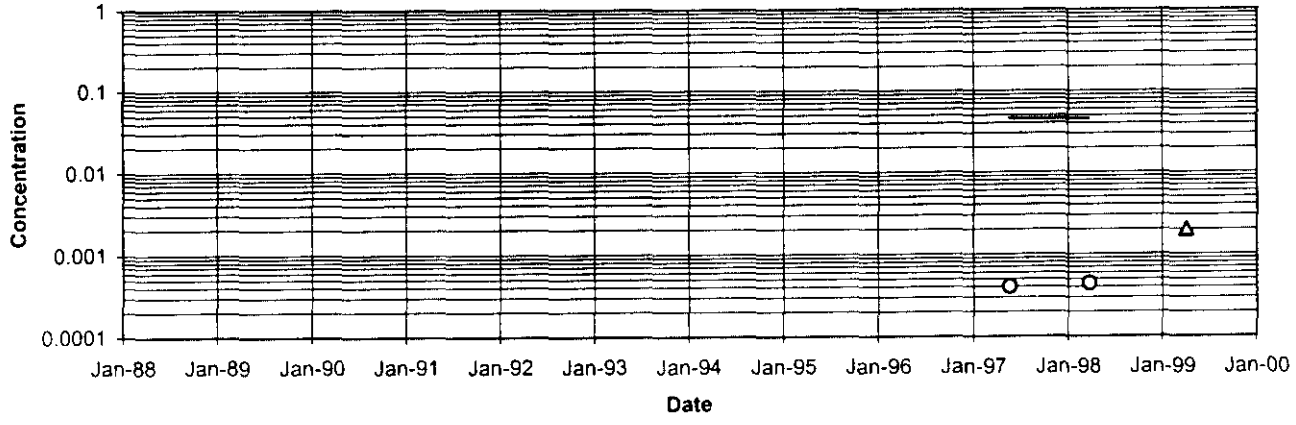
Cadmium (mg/L)

AGQS Δ Concentration O NonDetect

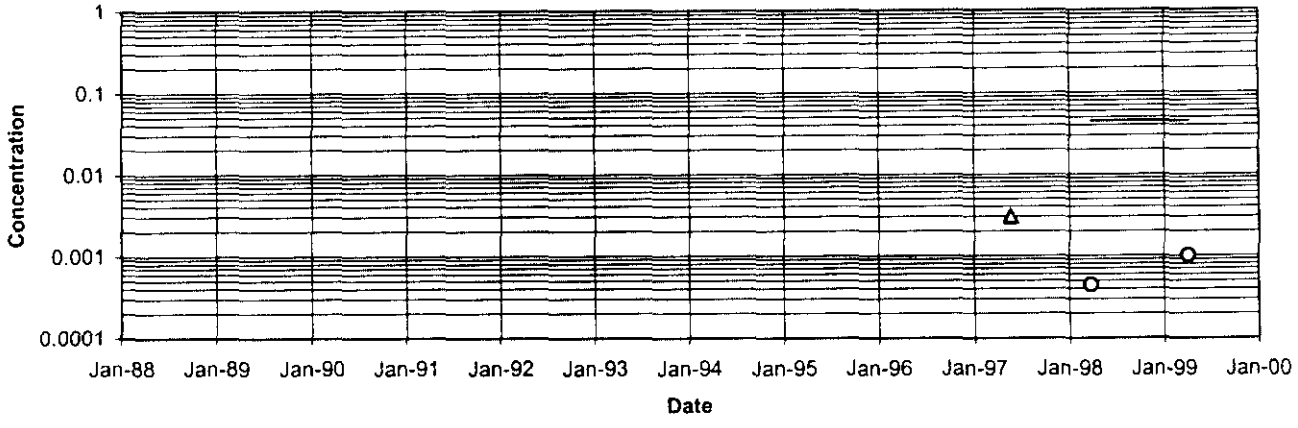
P1



P3R



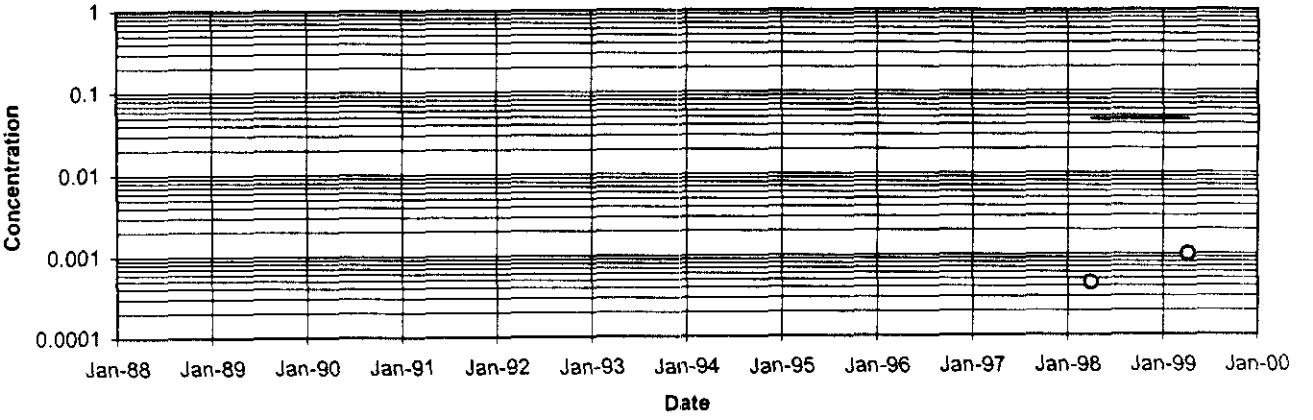
P4R



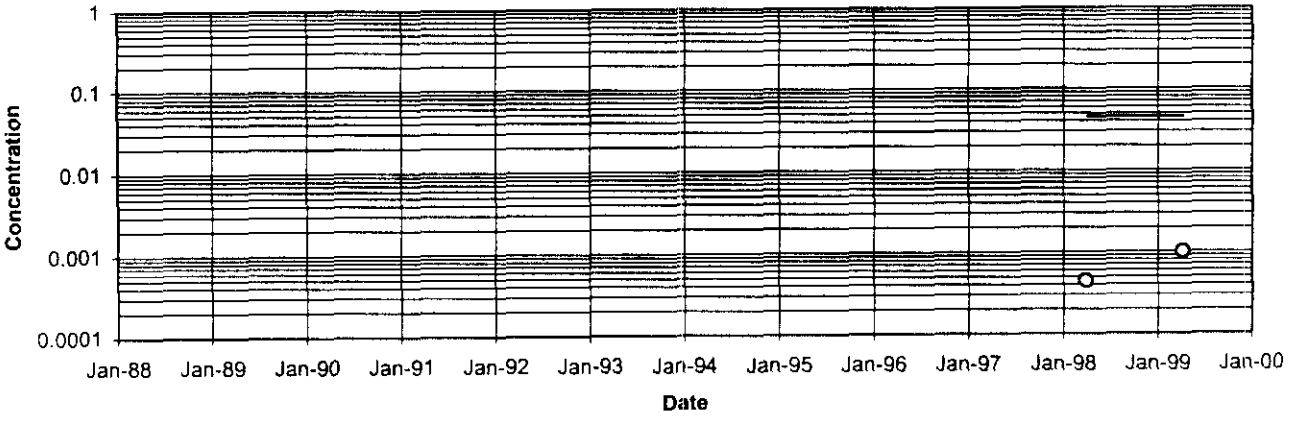
Cadmium (mg/L)

AGQS Δ Concentration ○ NonDetect

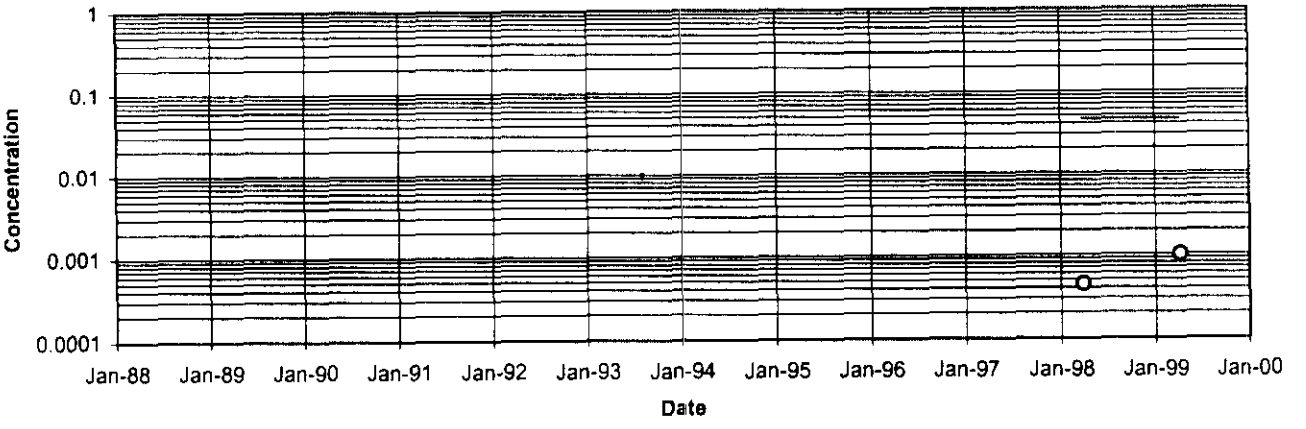
SG1



SG3



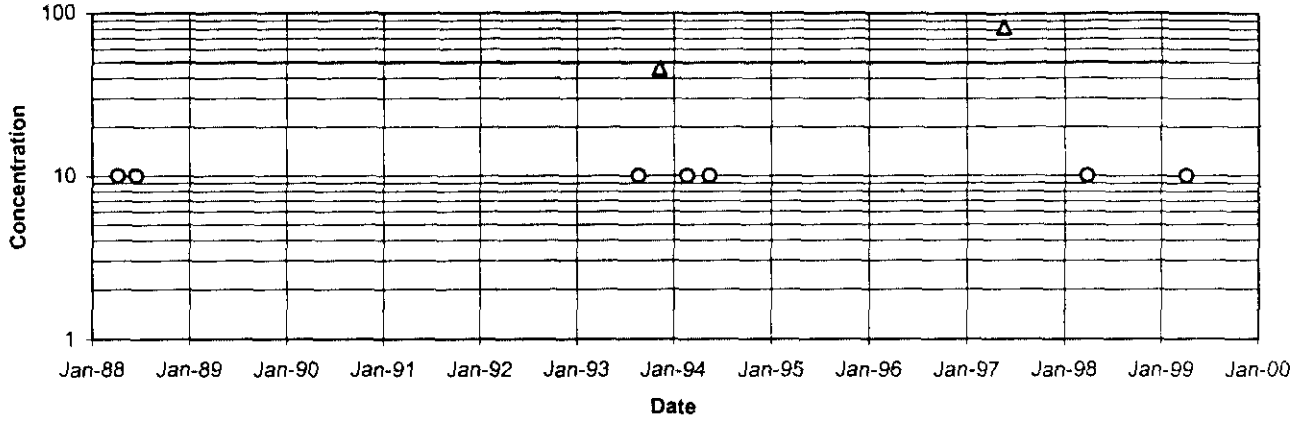
SG4



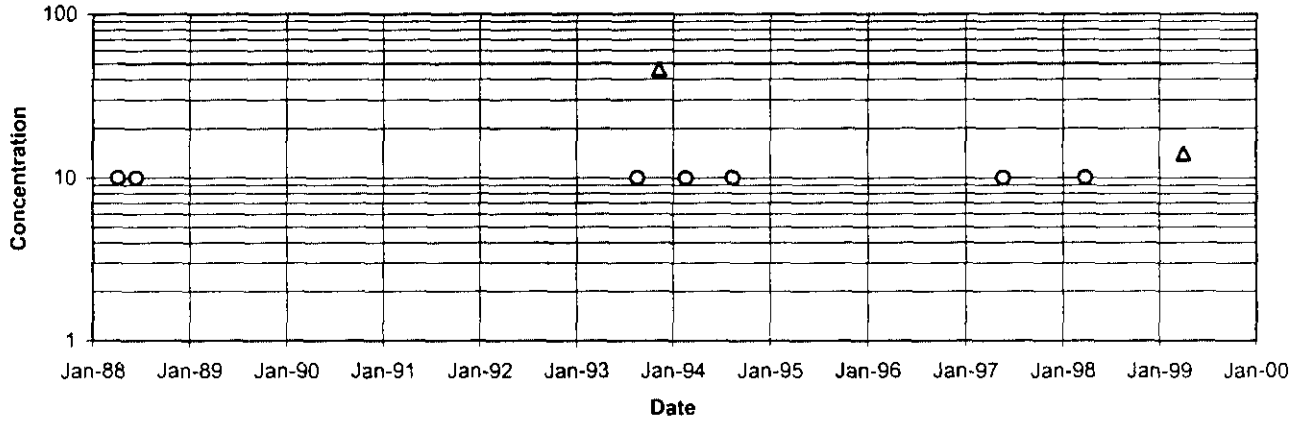
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

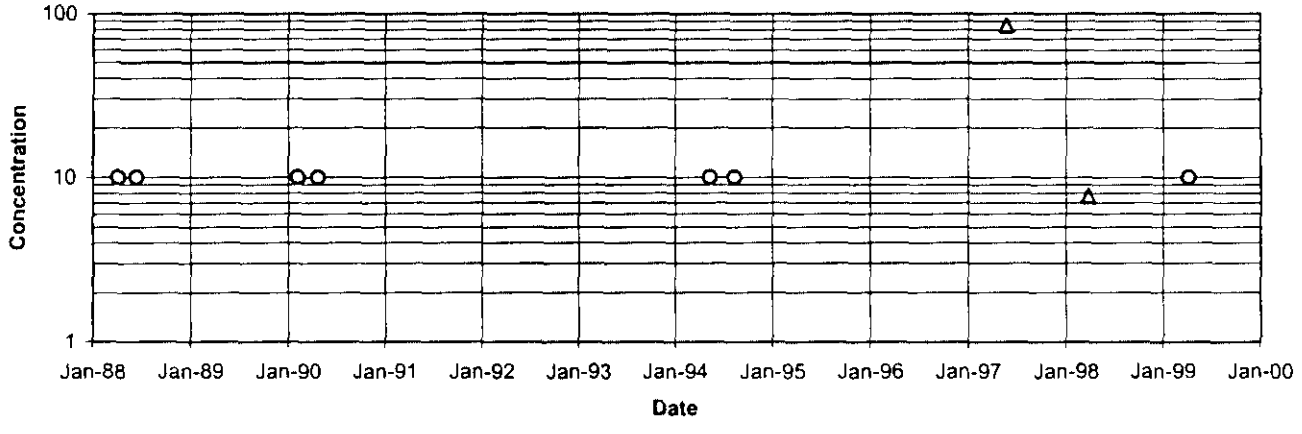
G113



G113A



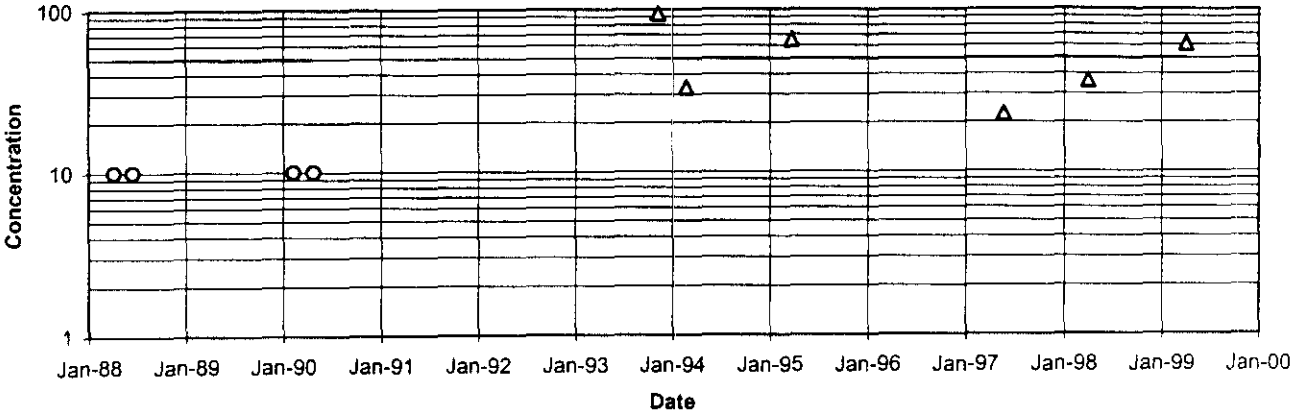
G114



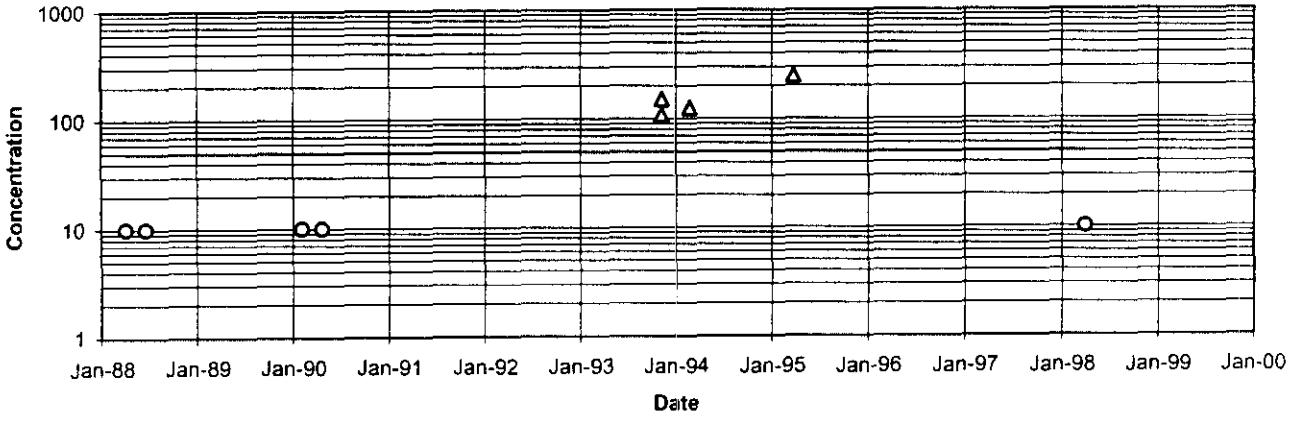
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration ○ NonDetect

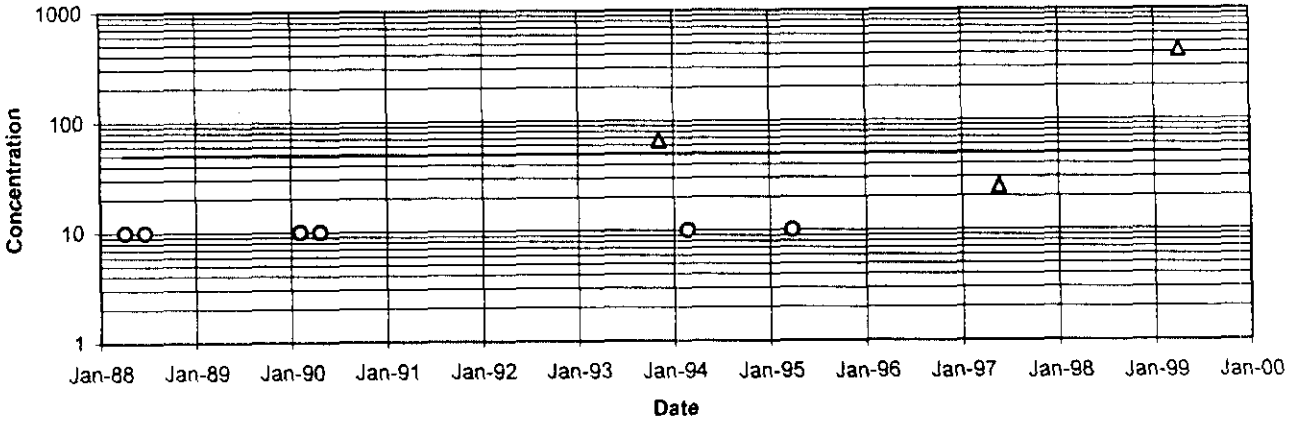
G115



G116



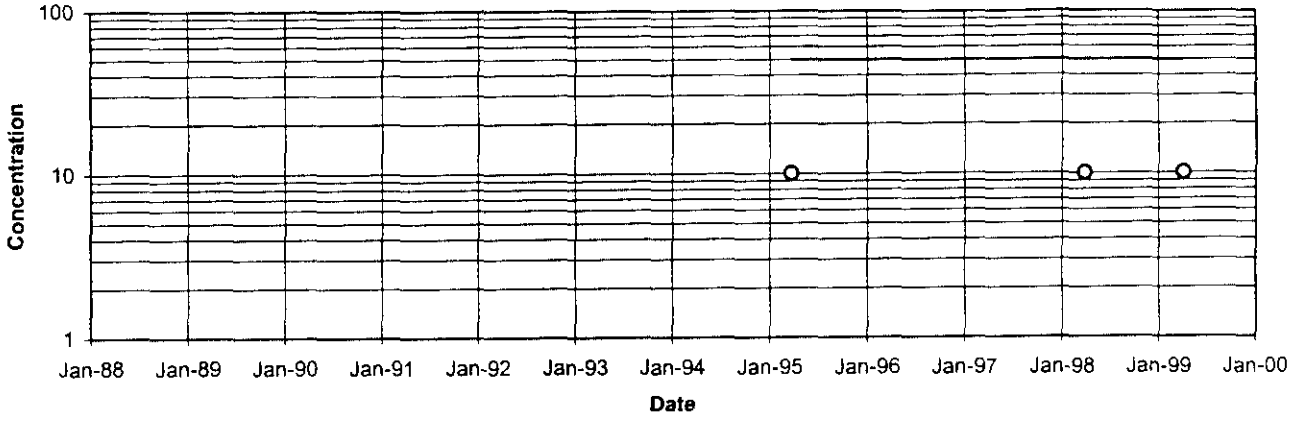
G116A



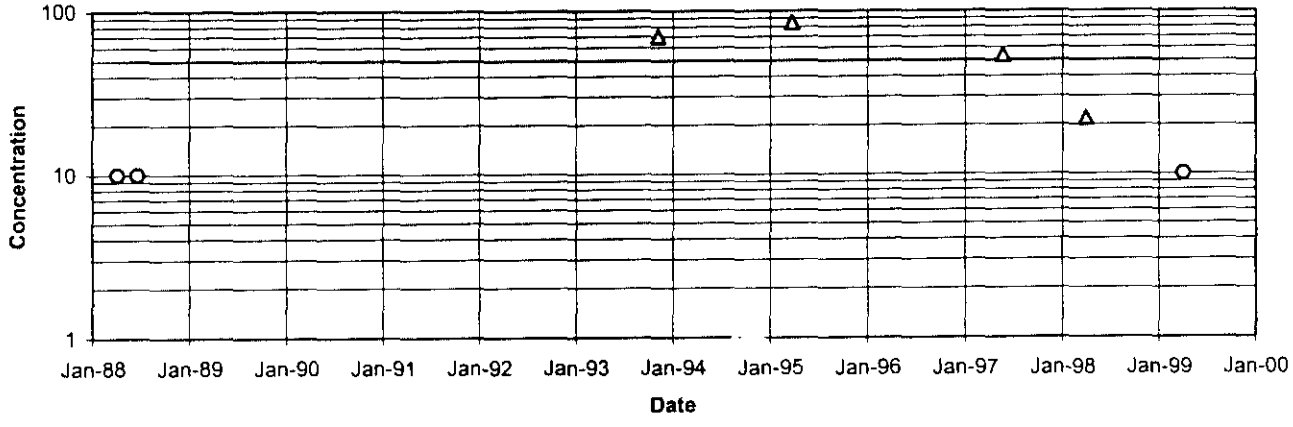
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

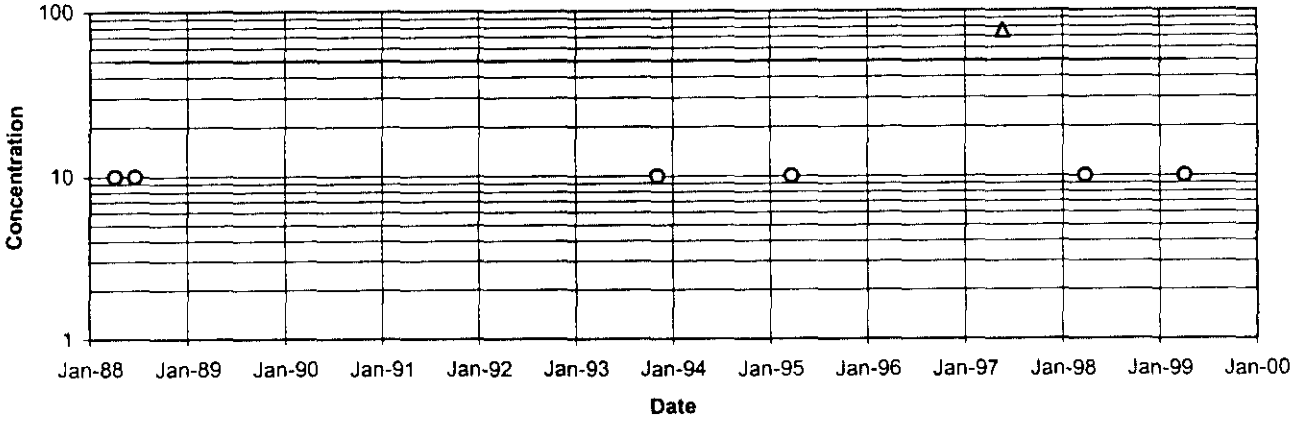
G116D



G117



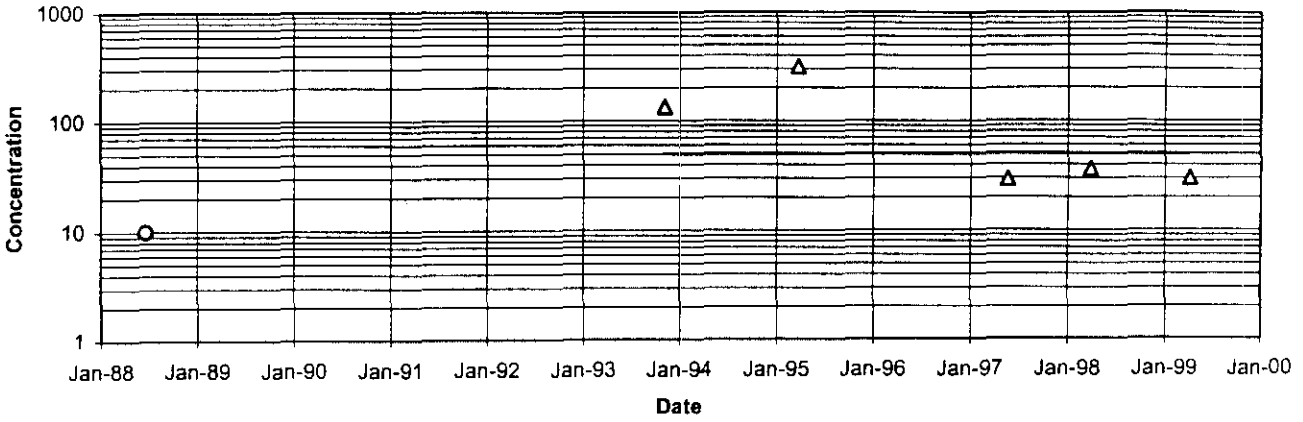
G118A



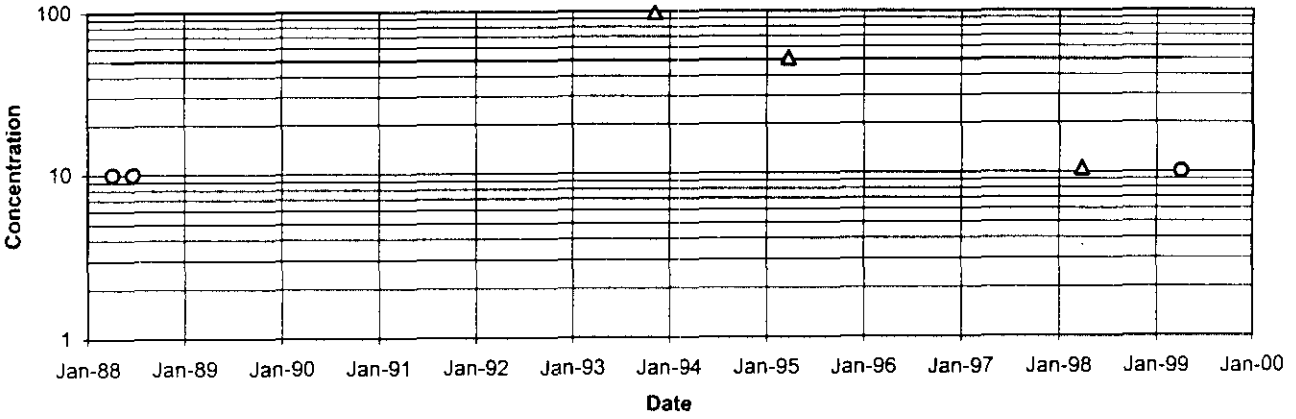
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration ○ NonDetect

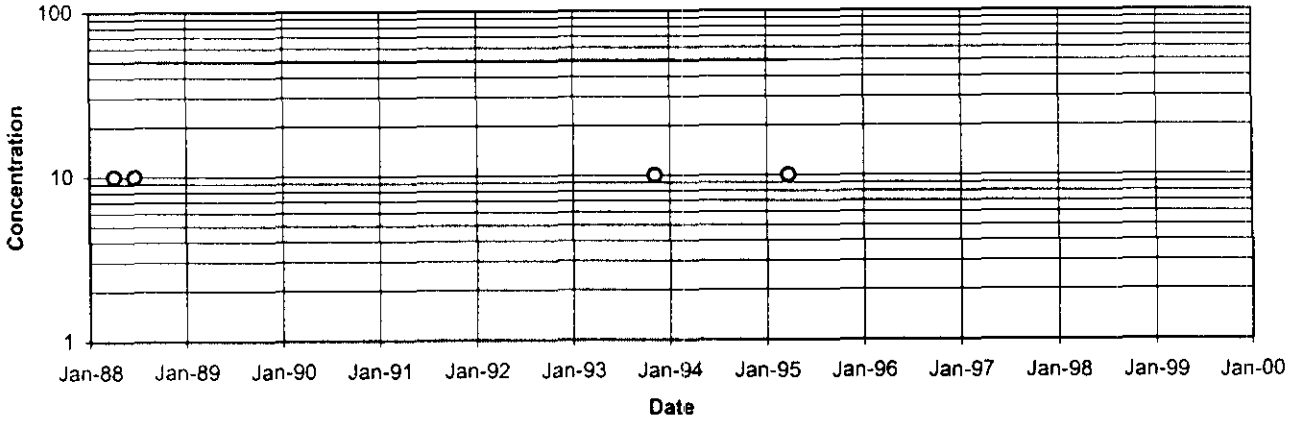
G118R



G119



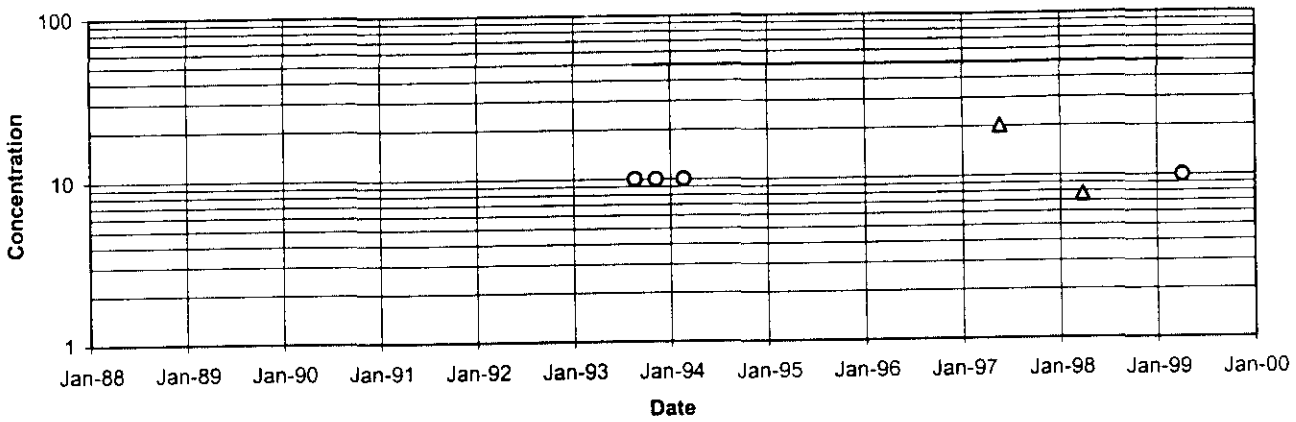
G119A



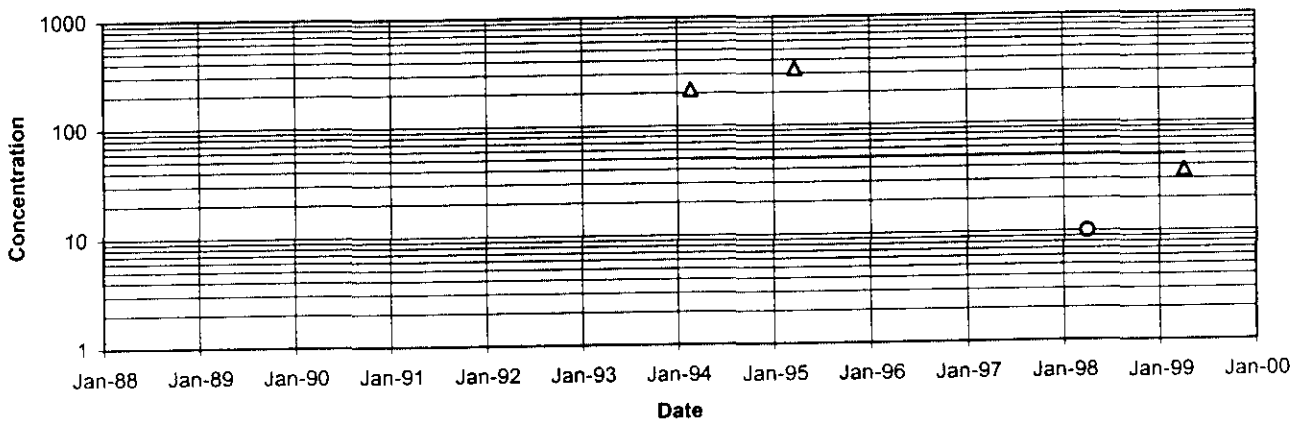
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

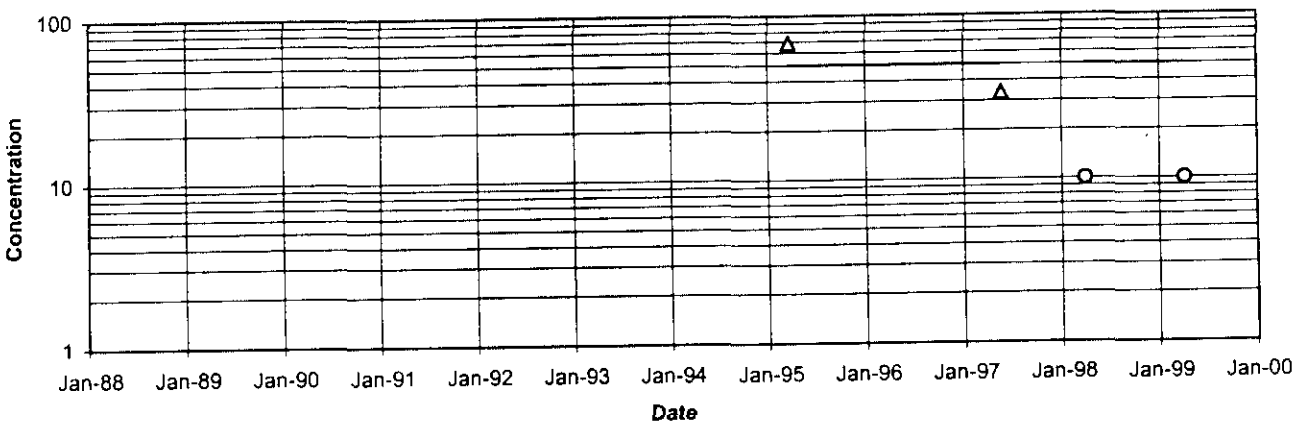
G120B



G130



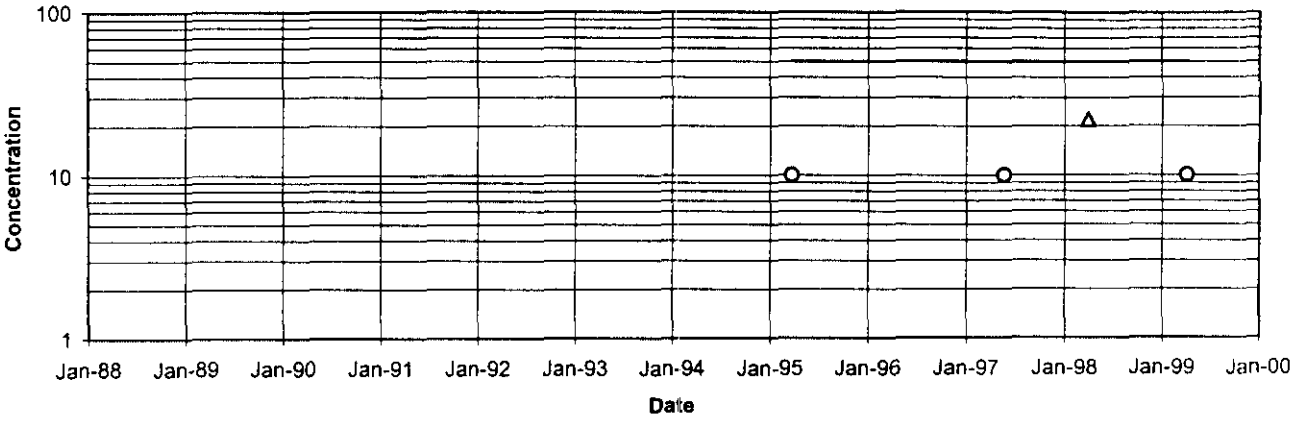
G132



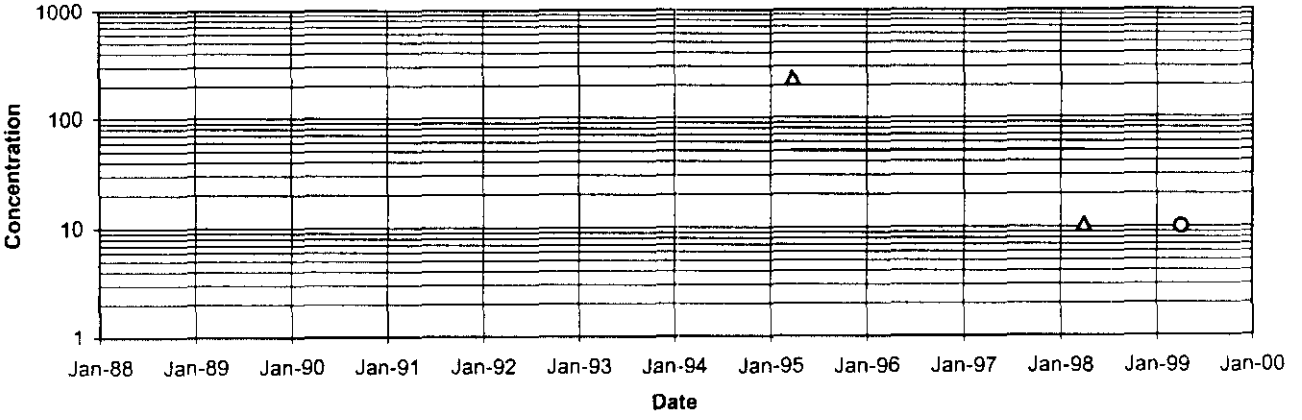
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

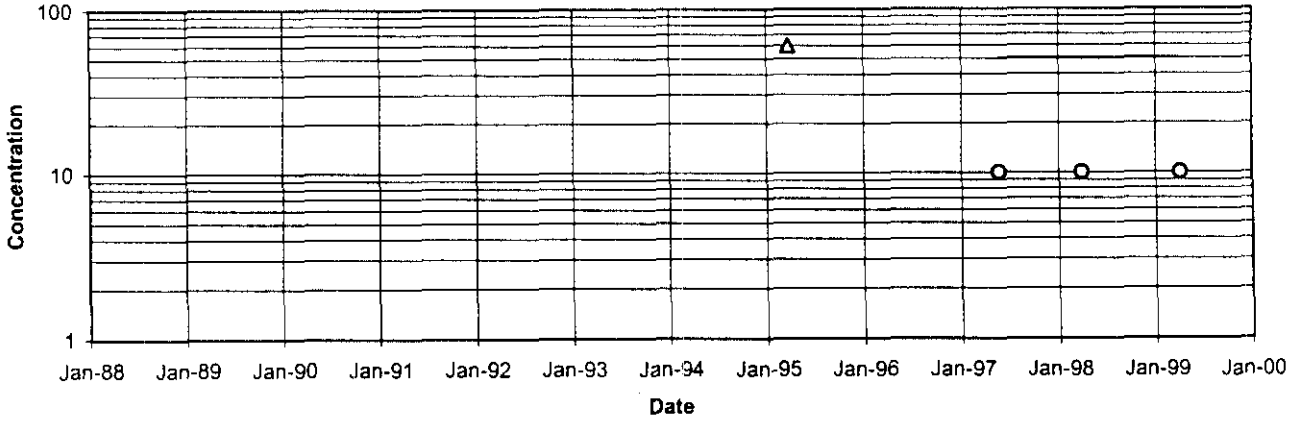
G33D



G33S



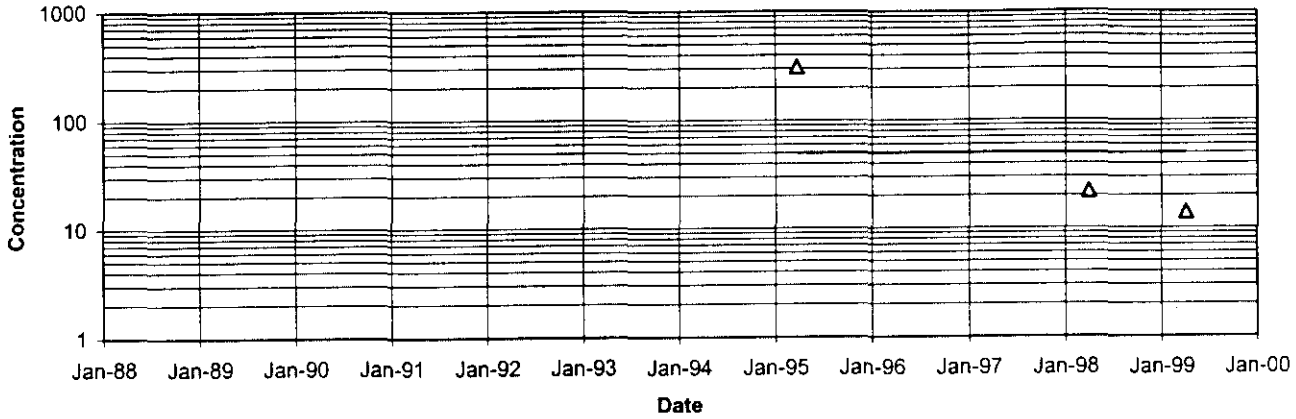
G34D



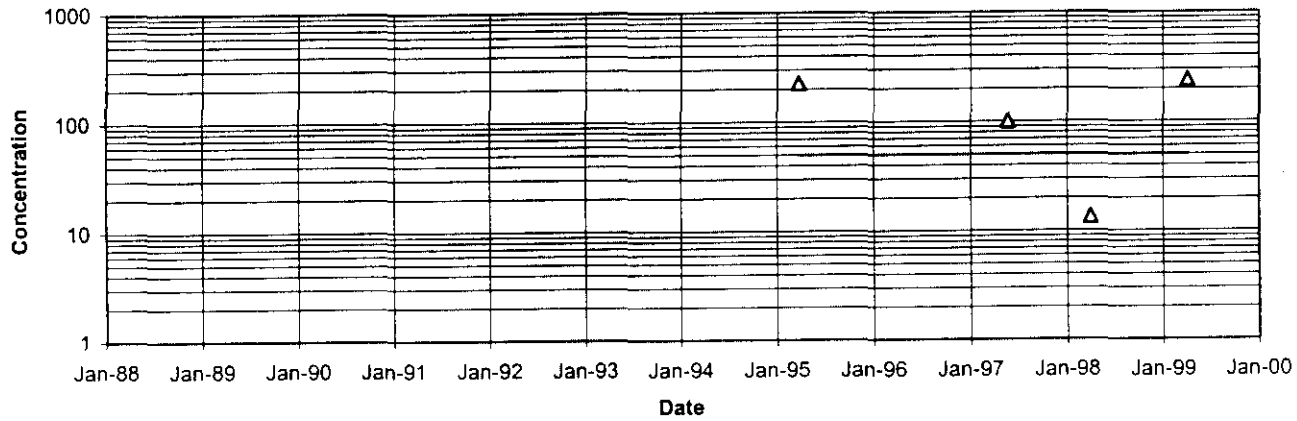
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

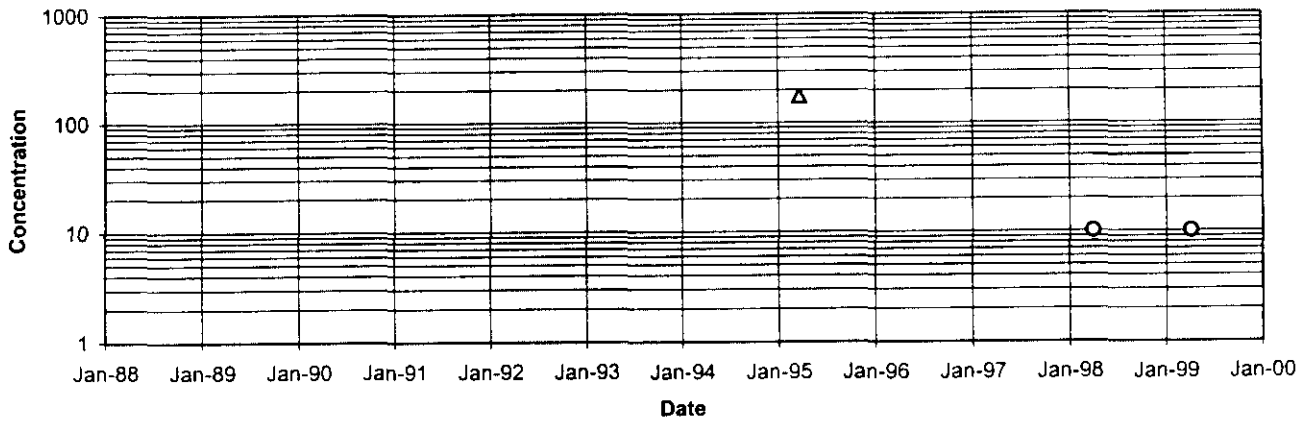
G34S



G35D



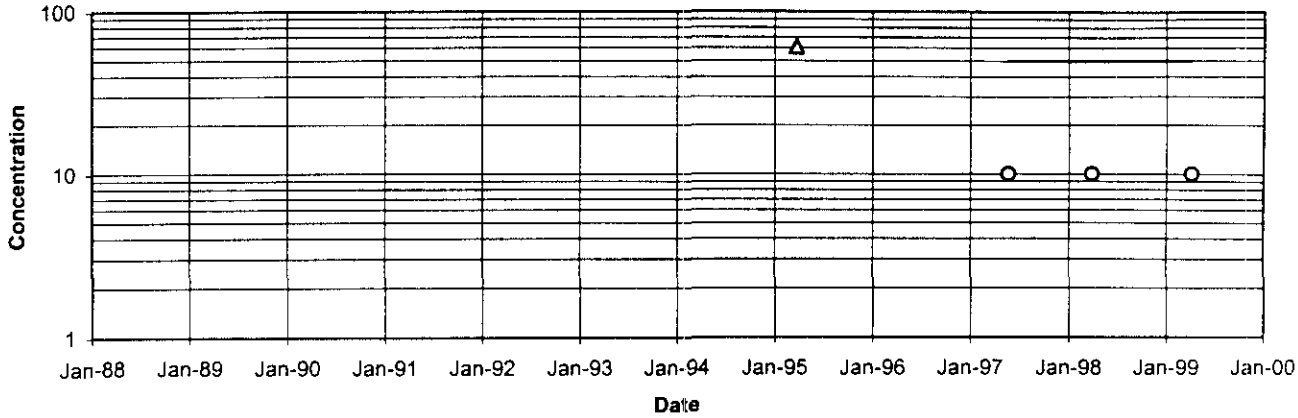
G35S



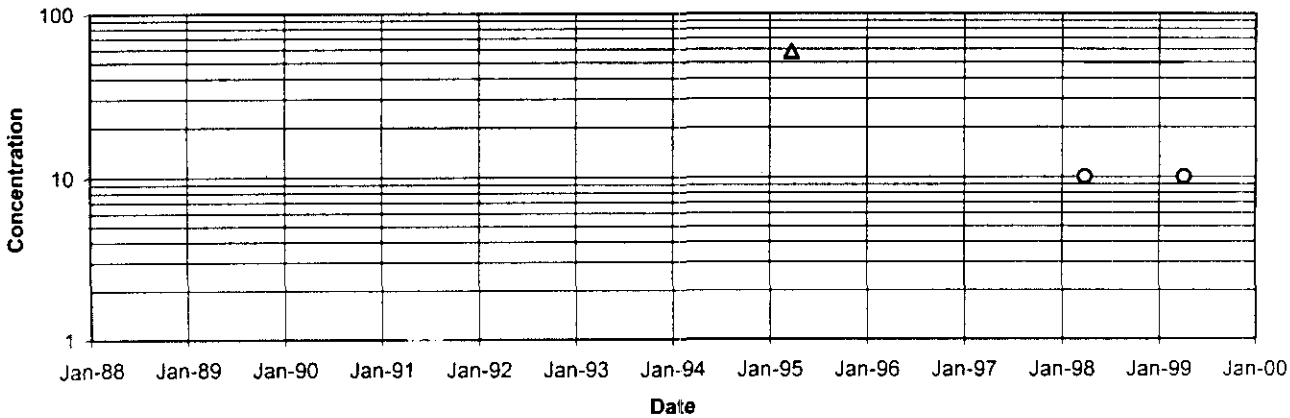
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

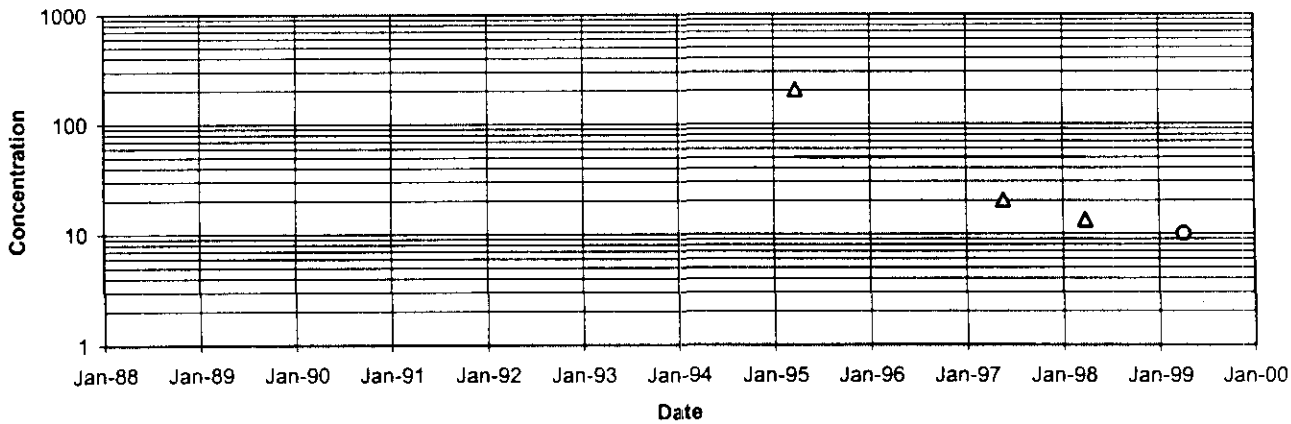
G36



G37D



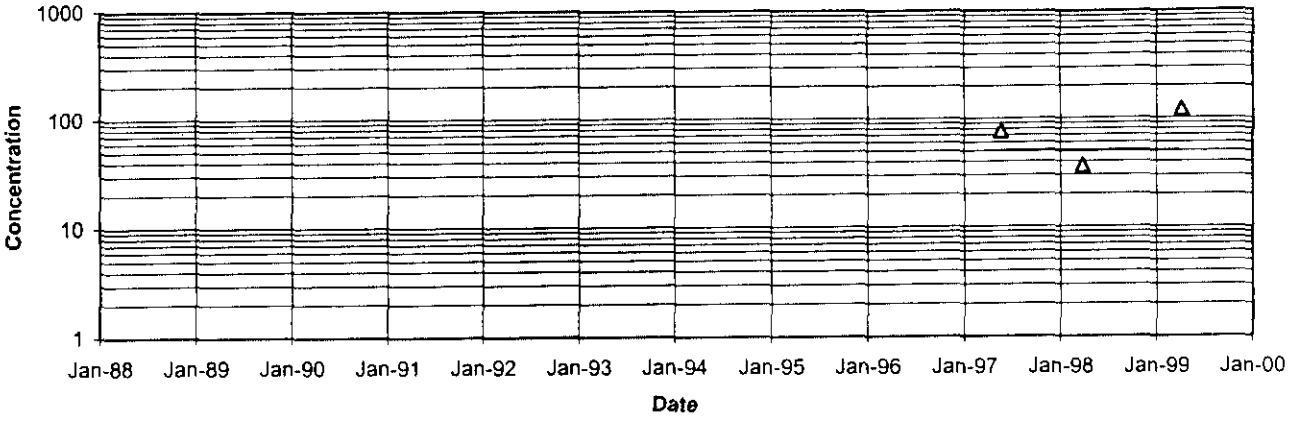
G37S



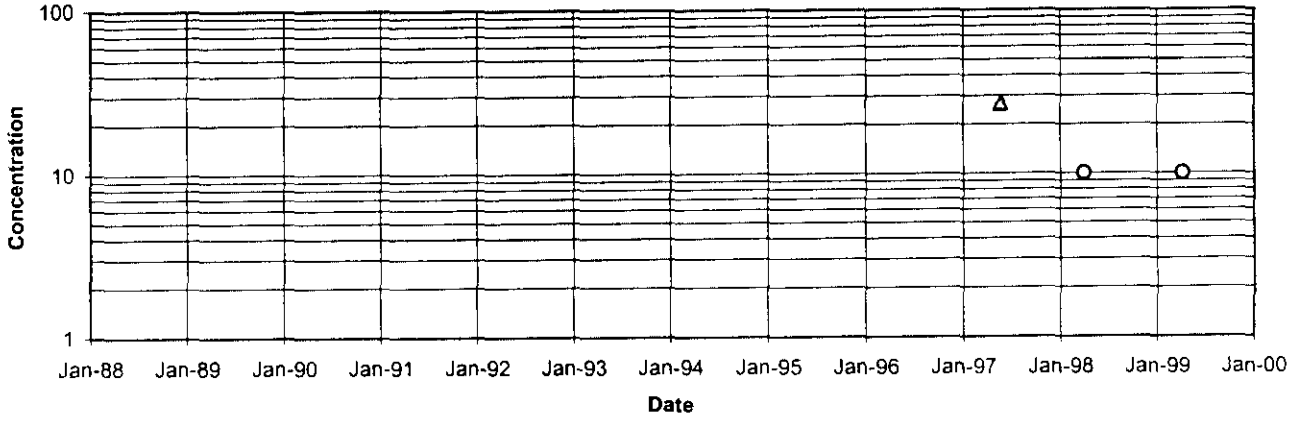
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

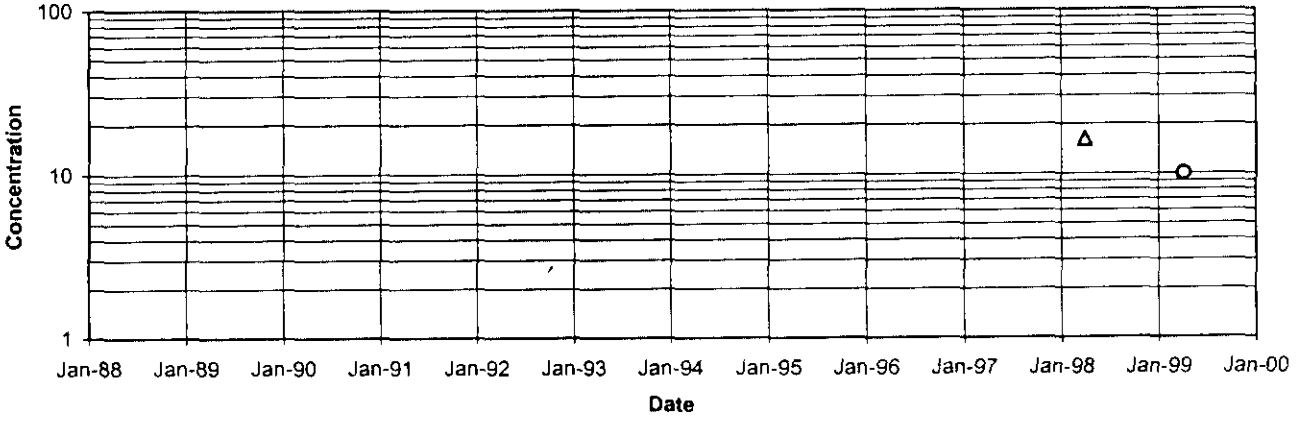
G38



G39



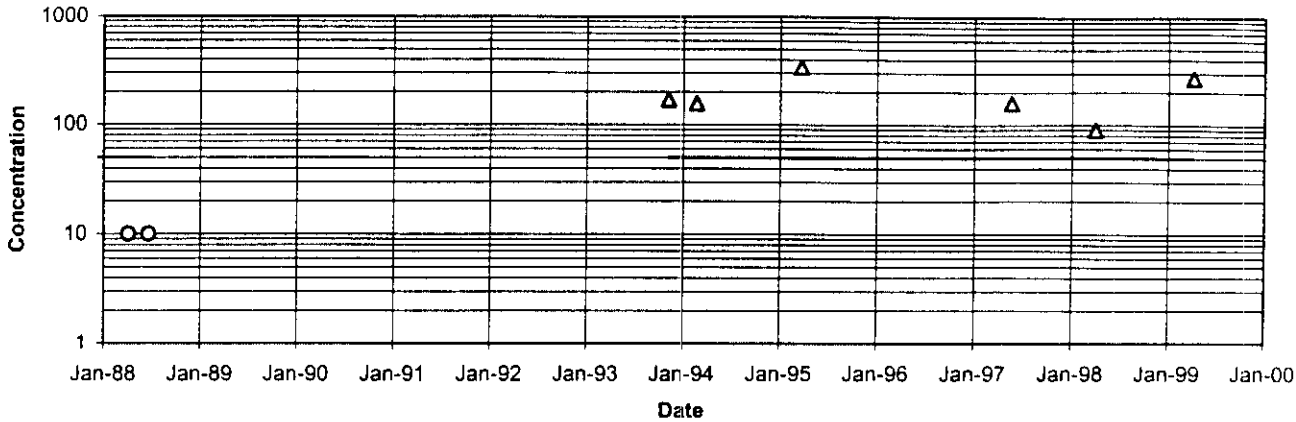
G40



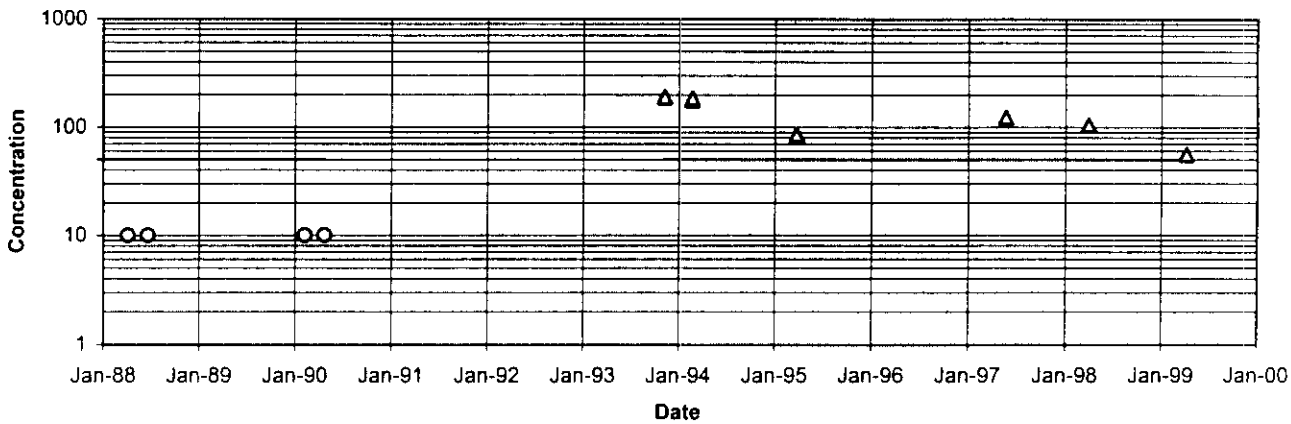
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration ○ NonDetect

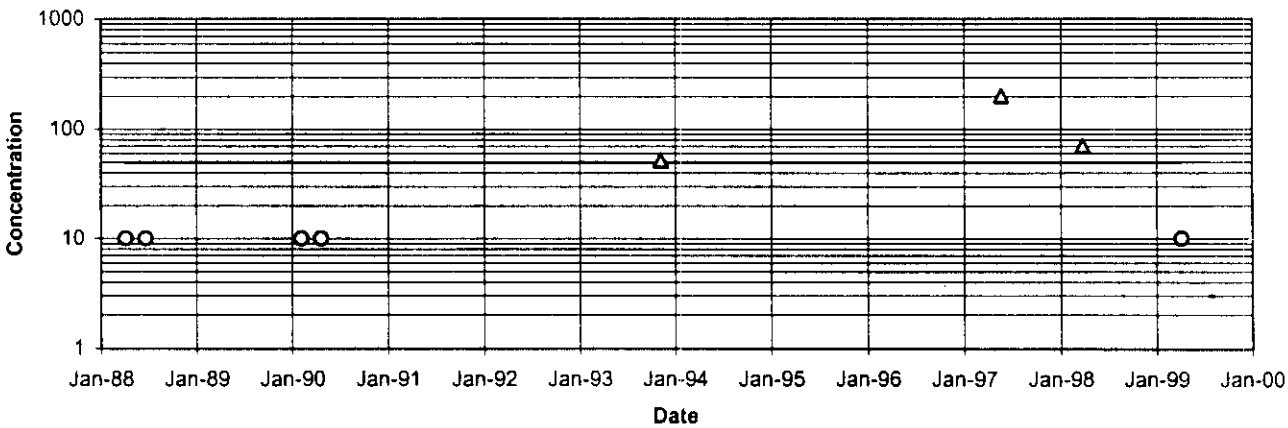
MW106



P1



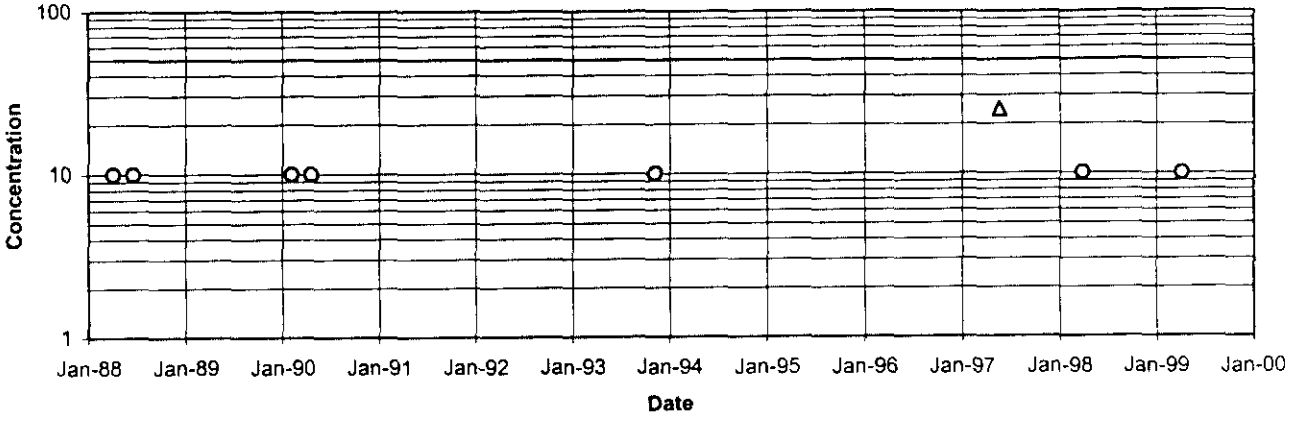
P3R



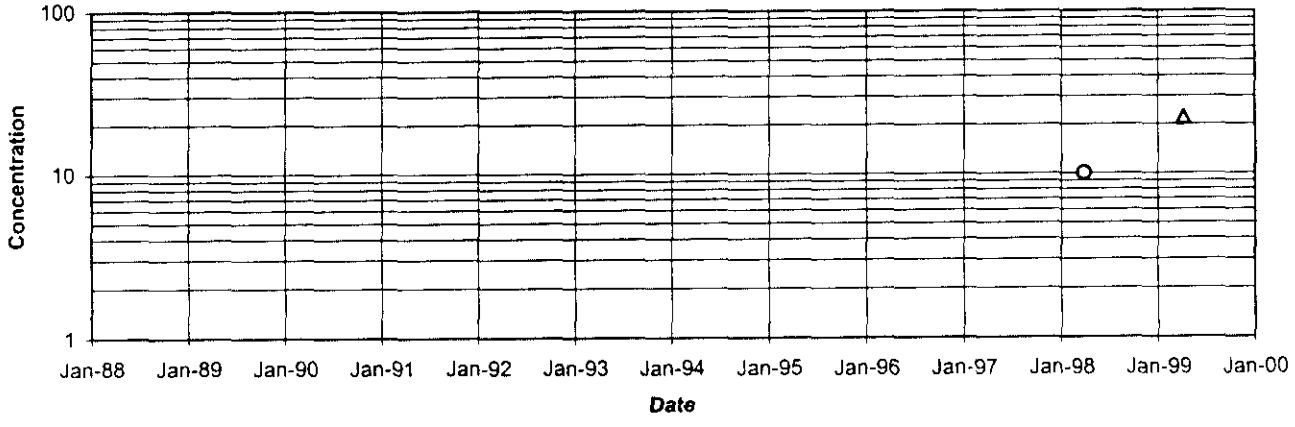
Chemical Oxygen Demand (COD) (mg/L)

AGQS Δ Concentration O NonDetect

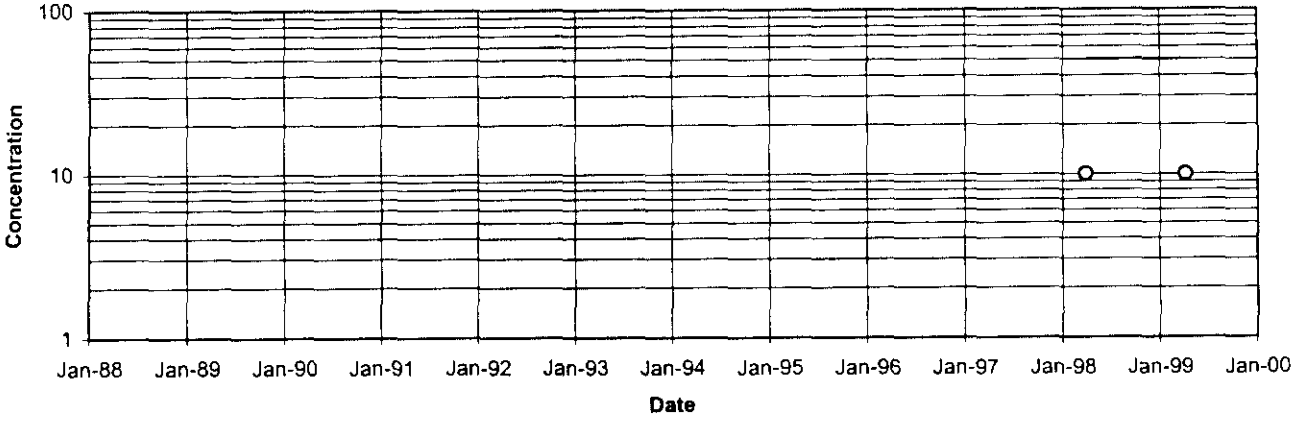
P4R



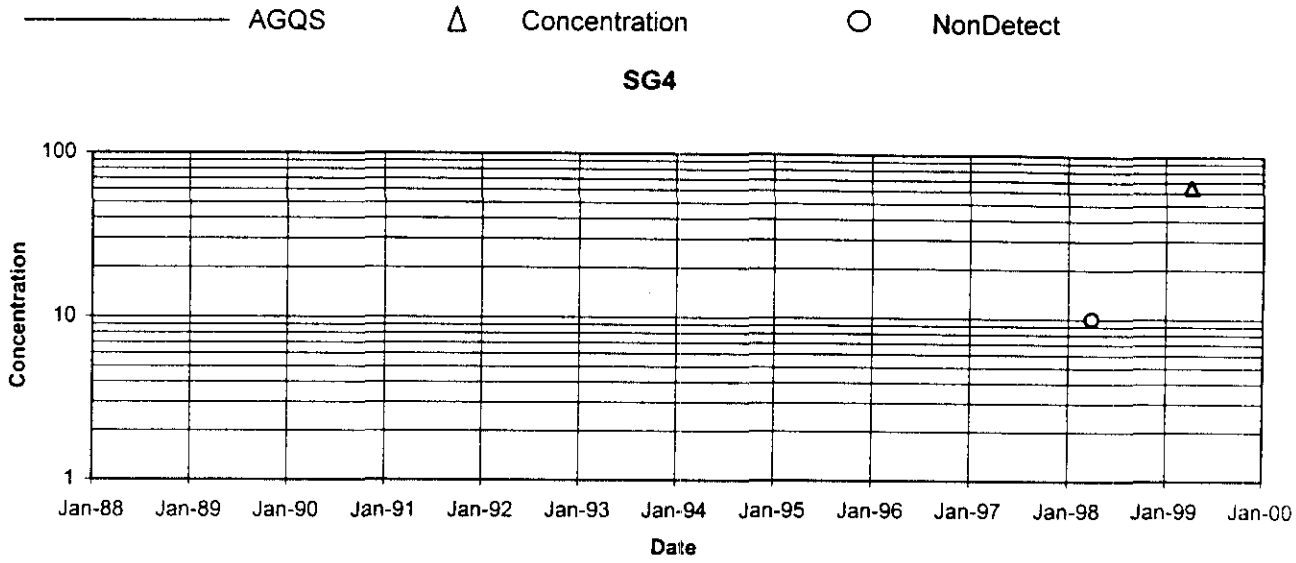
SG1



SG3



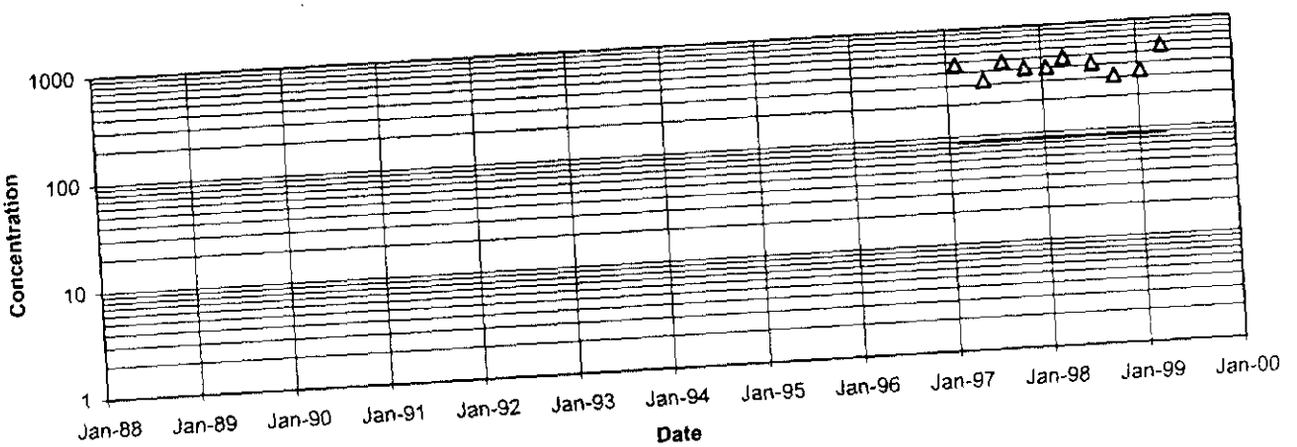
Chemical Oxygen Demand (COD) (mg/L)



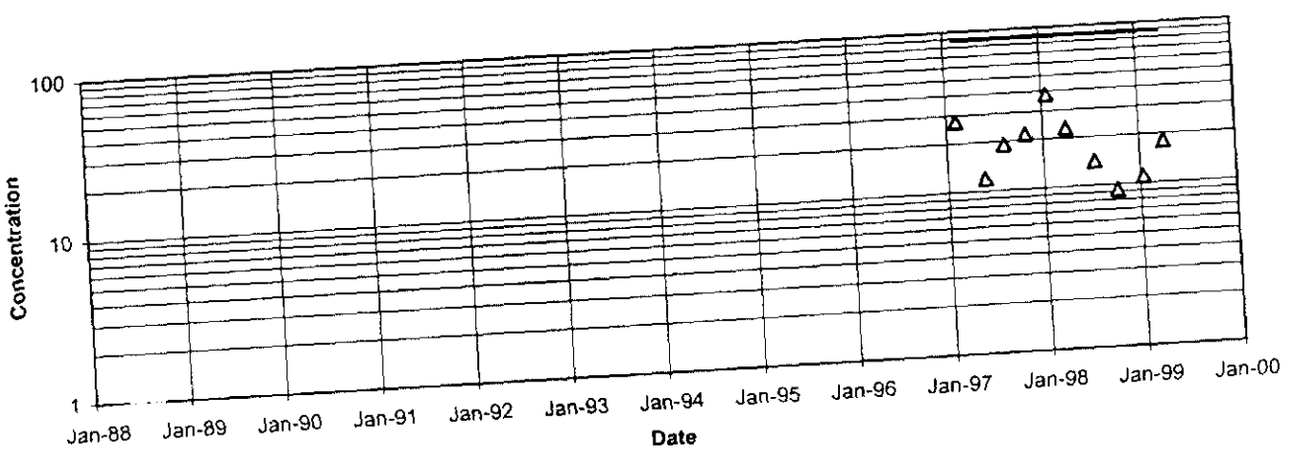
Chloride (dis) (mg/L)

AGQS Concentration NonDetect

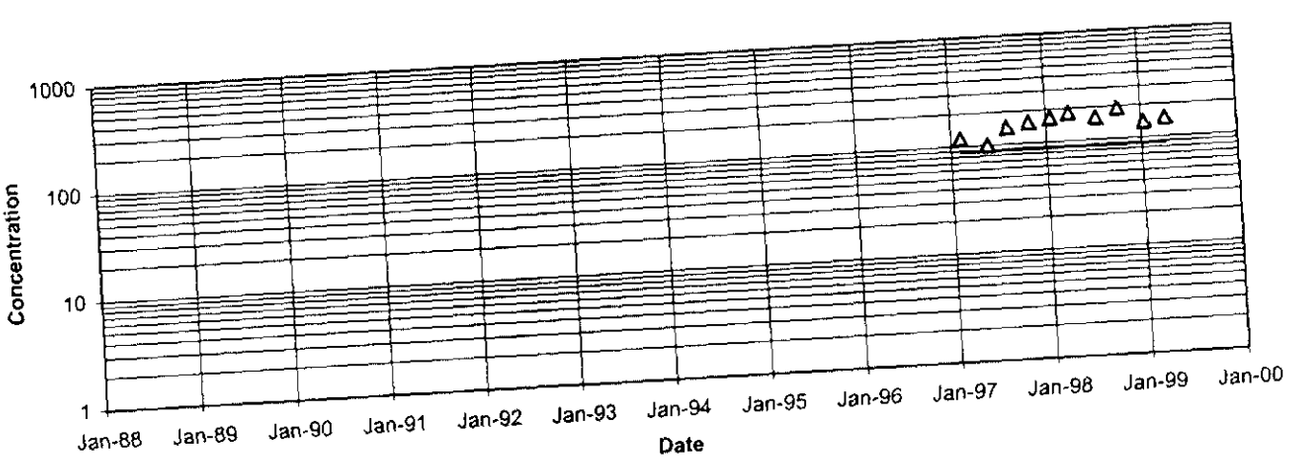
B15R



G109



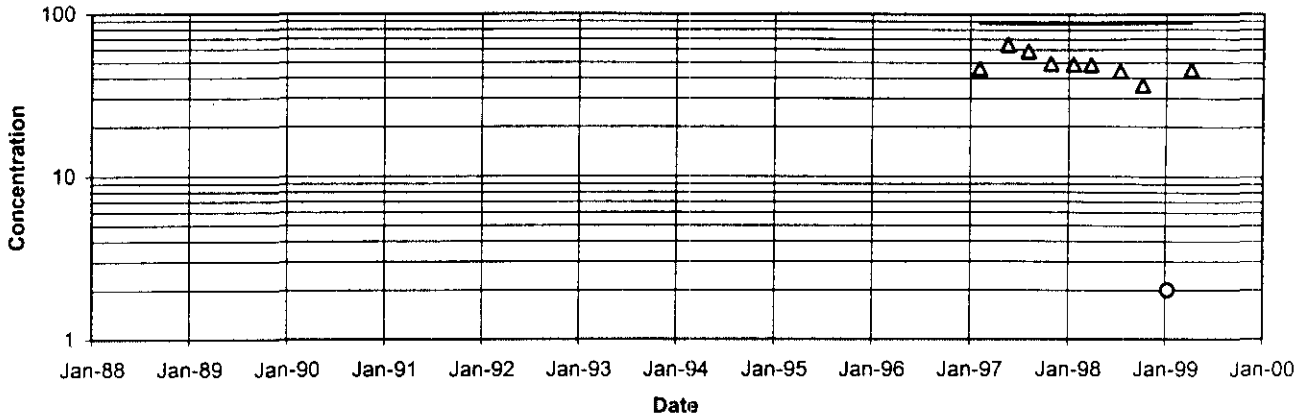
G109A



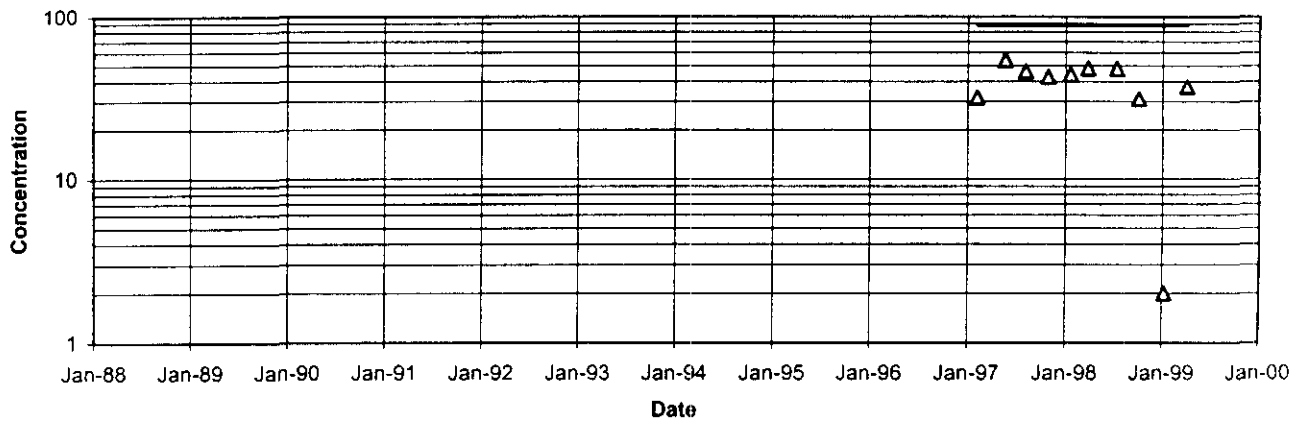
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

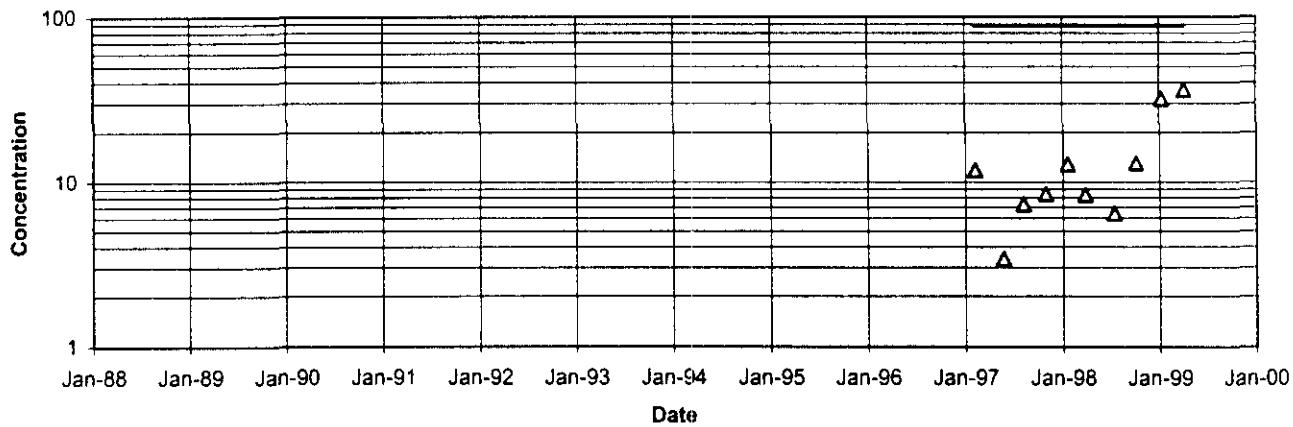
G113



G113A



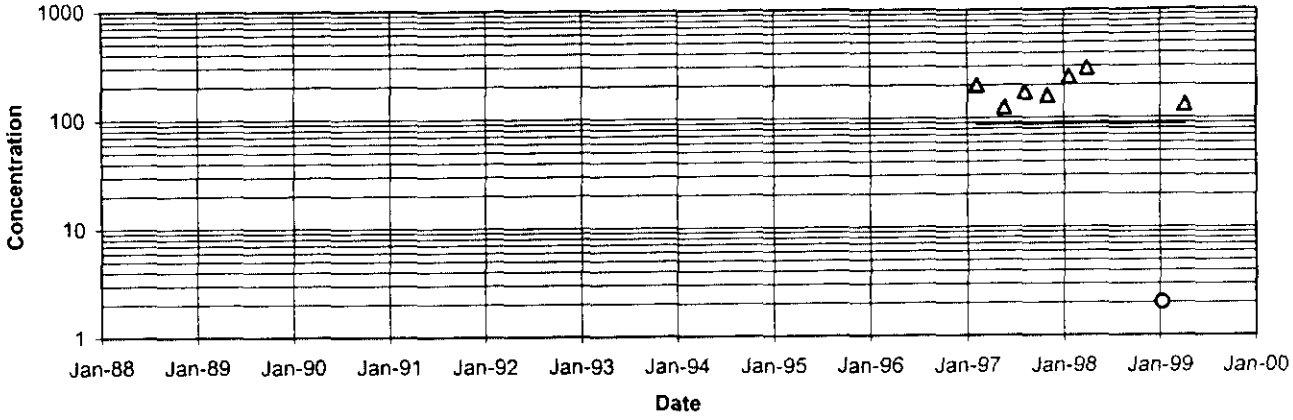
G114



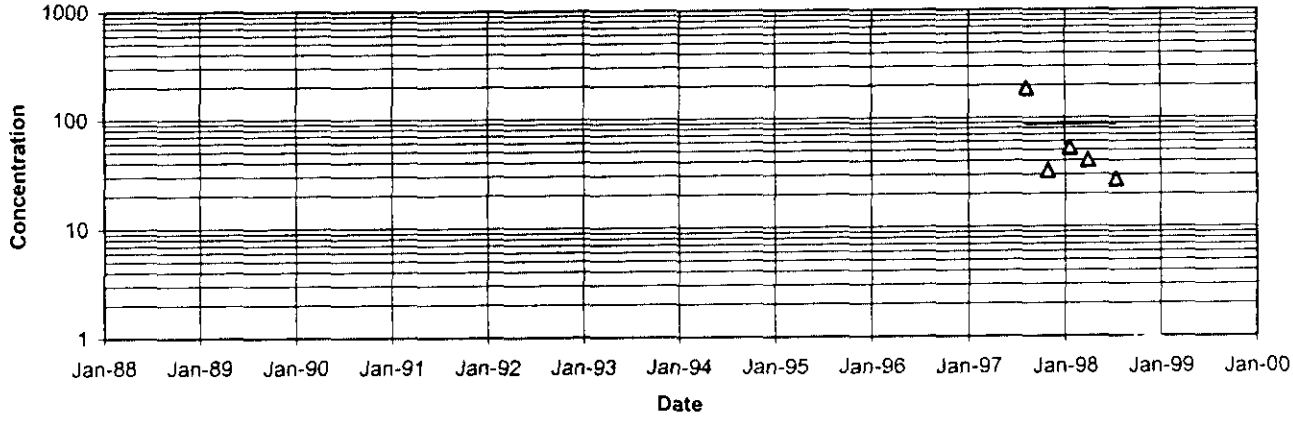
Chloride (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

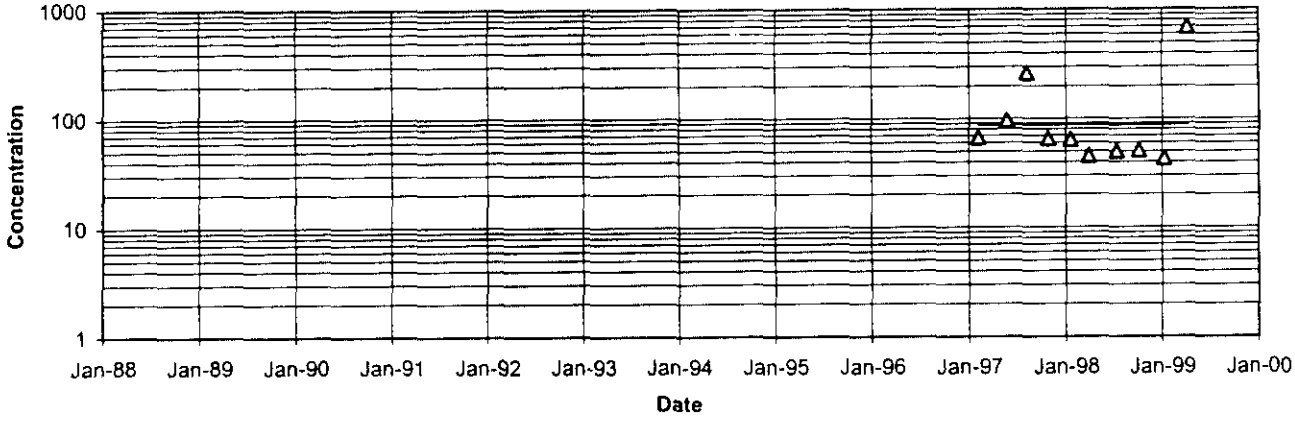
G115



G116



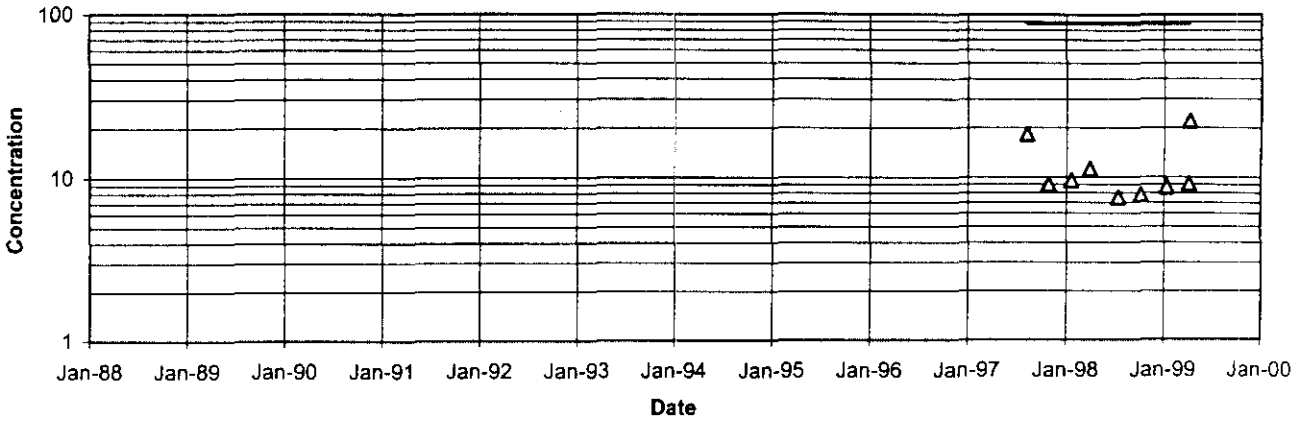
G116A



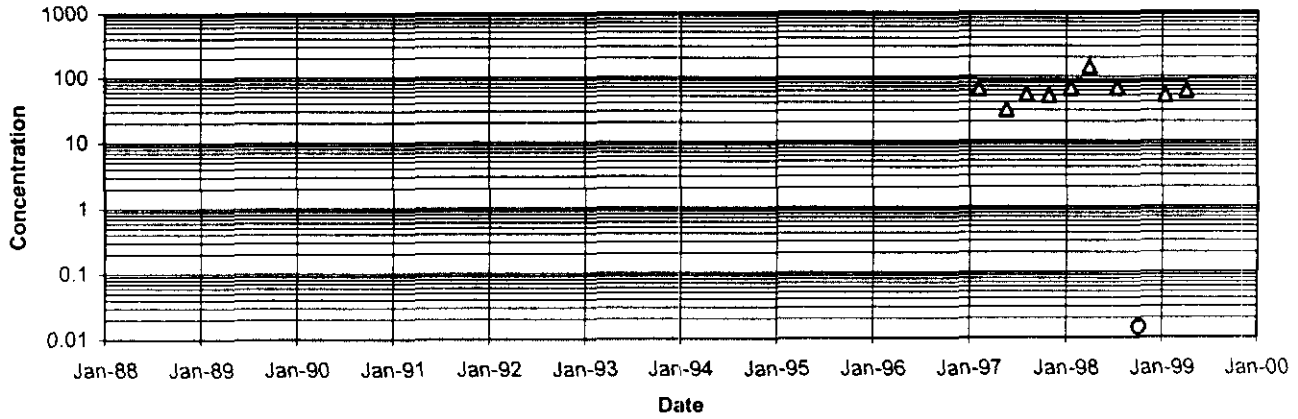
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

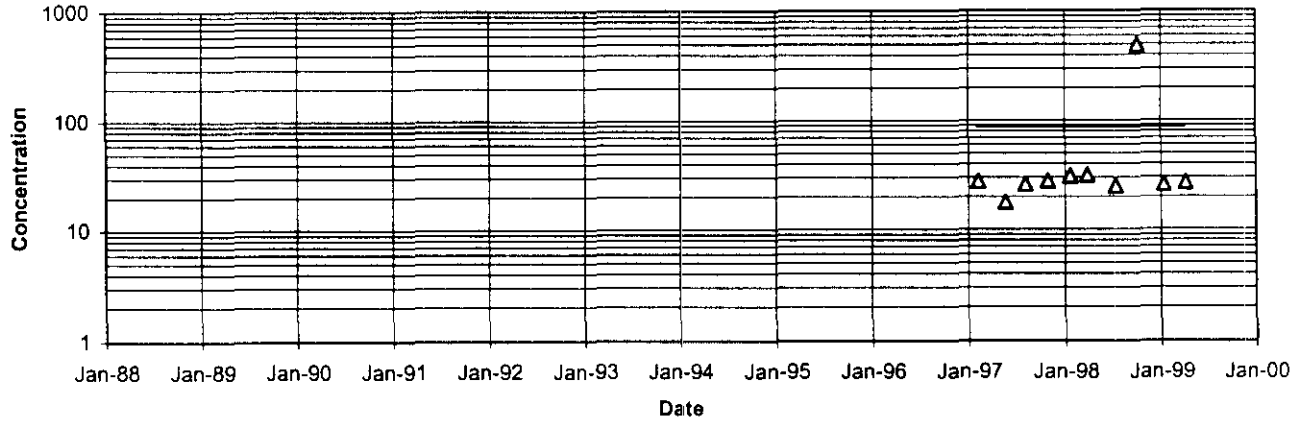
G116D



G117



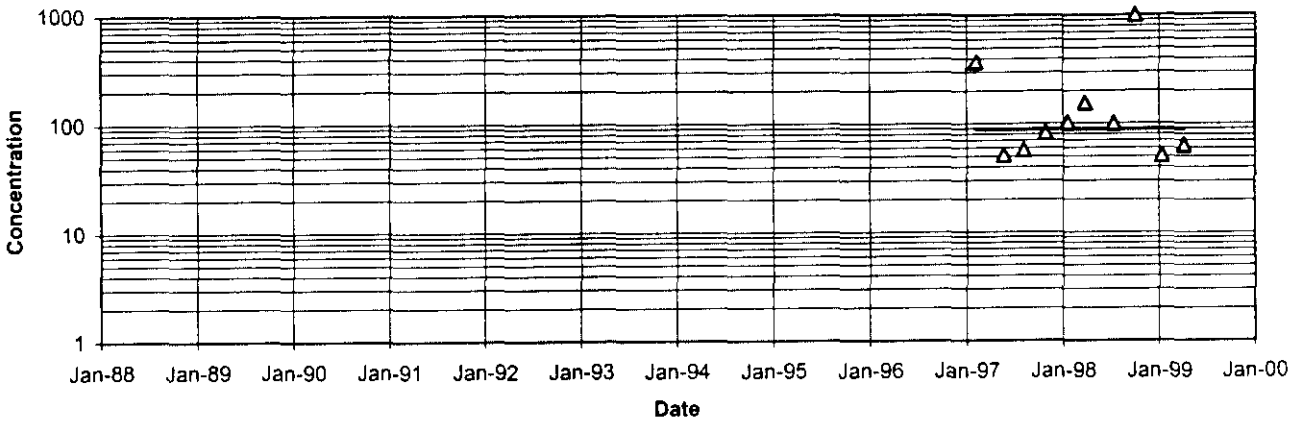
G118A



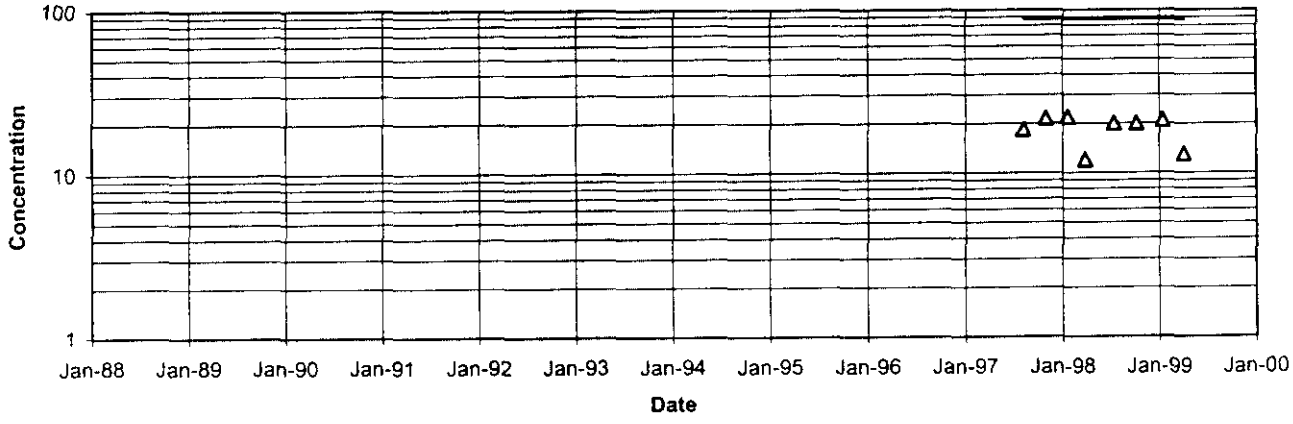
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

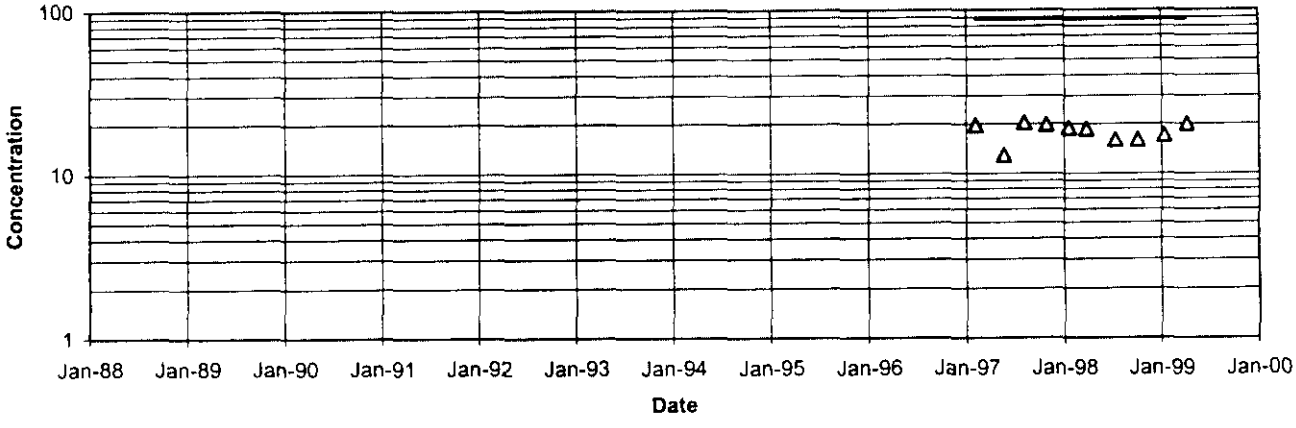
G118R



G119



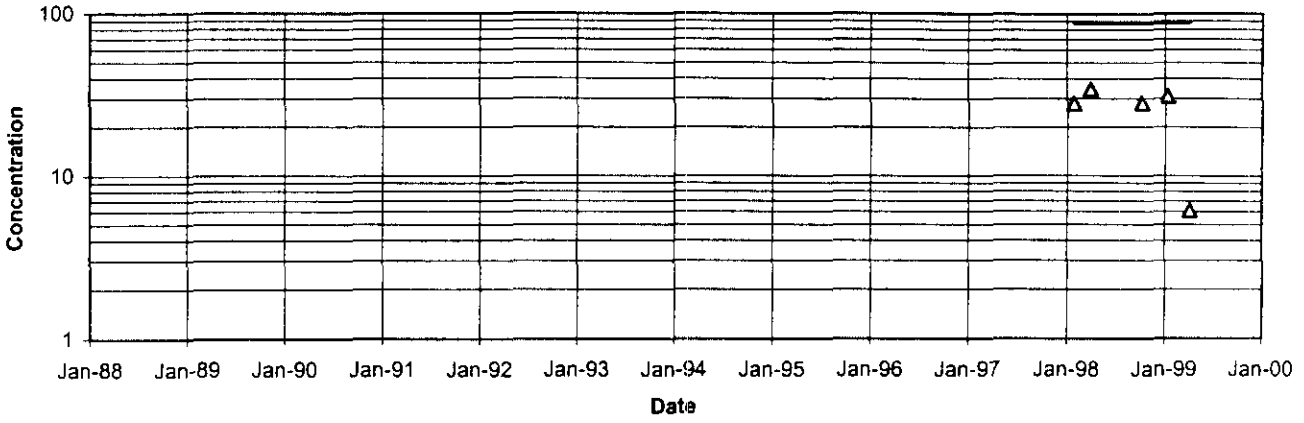
G120B



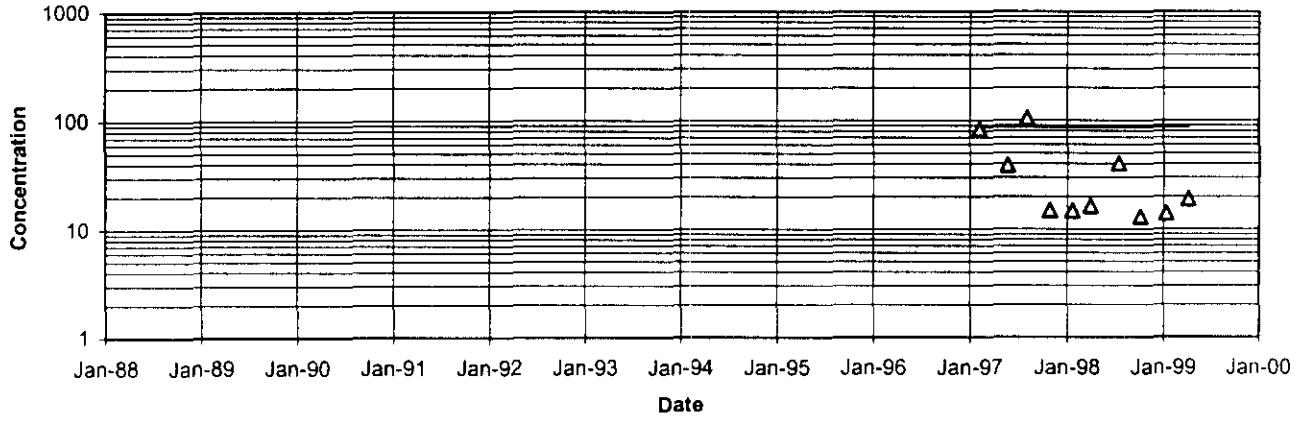
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

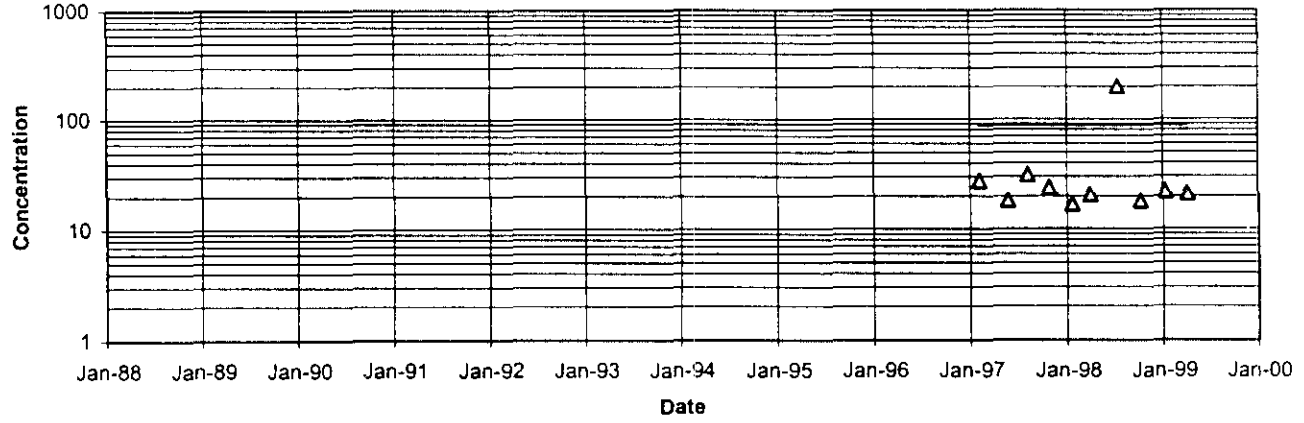
G130



G132



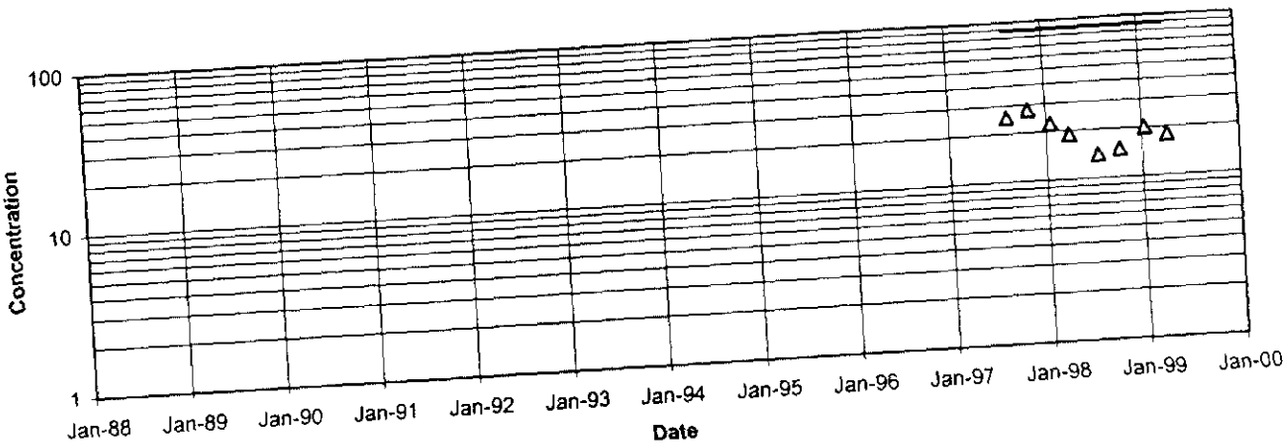
G33D



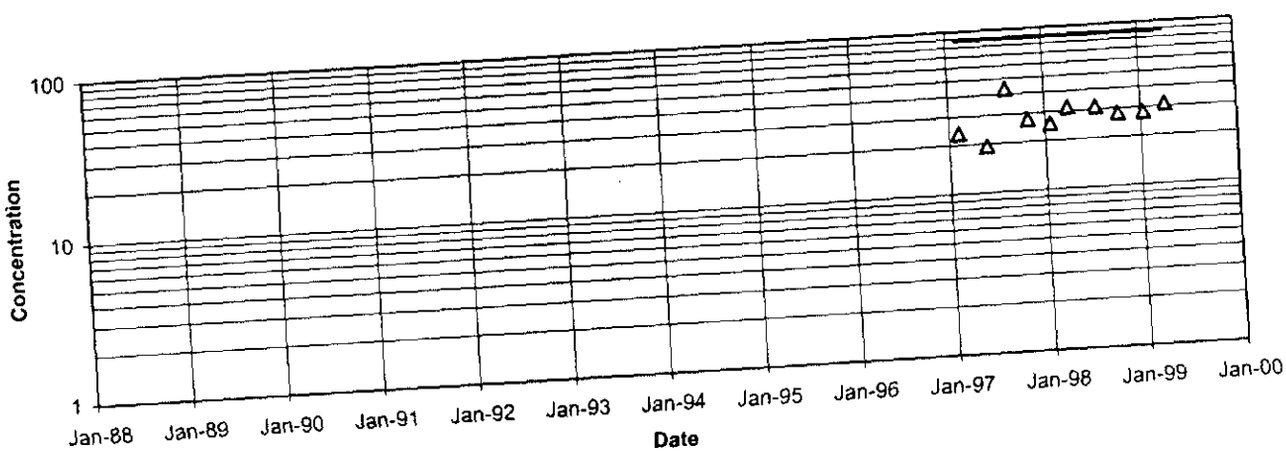
Chloride (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

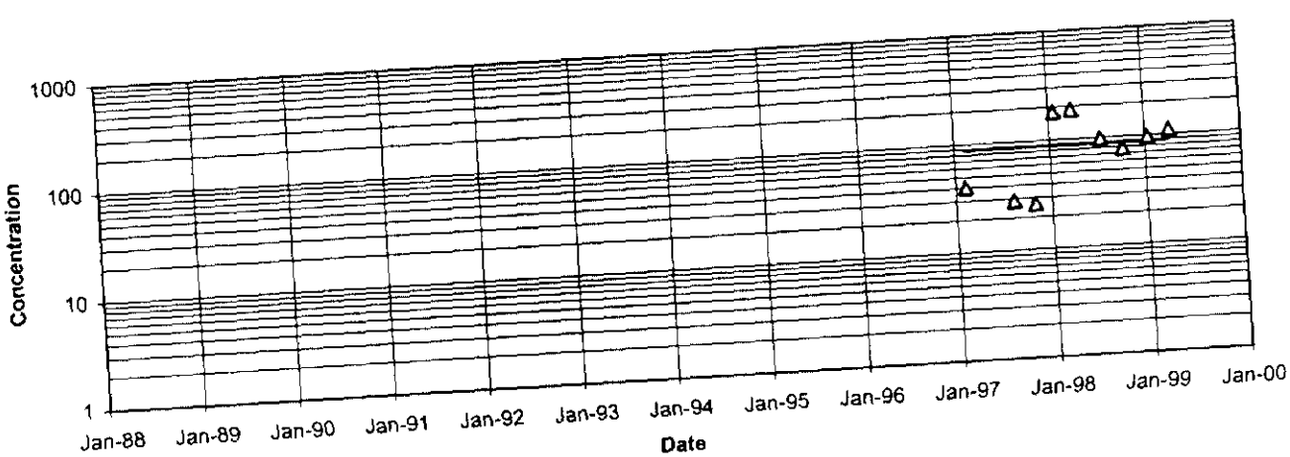
G33S



G34D



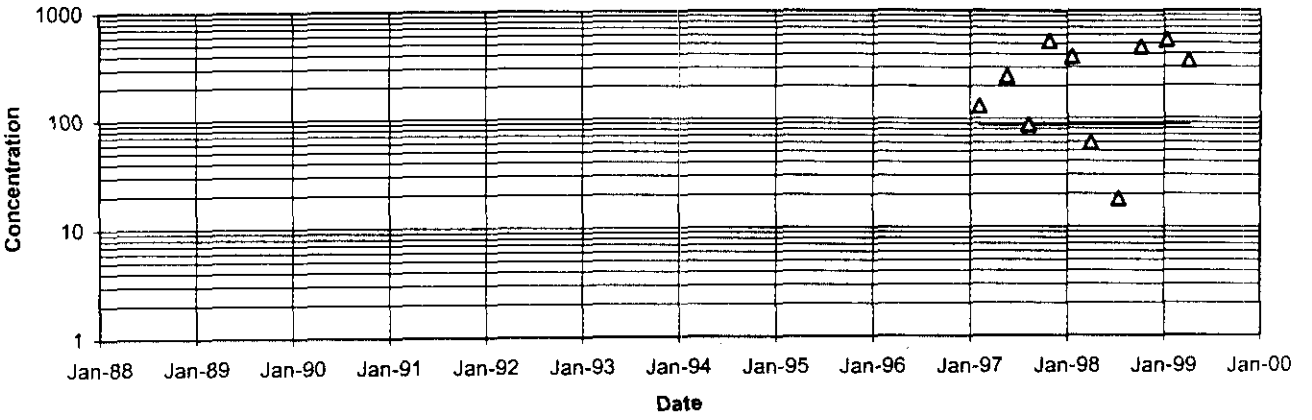
G34S



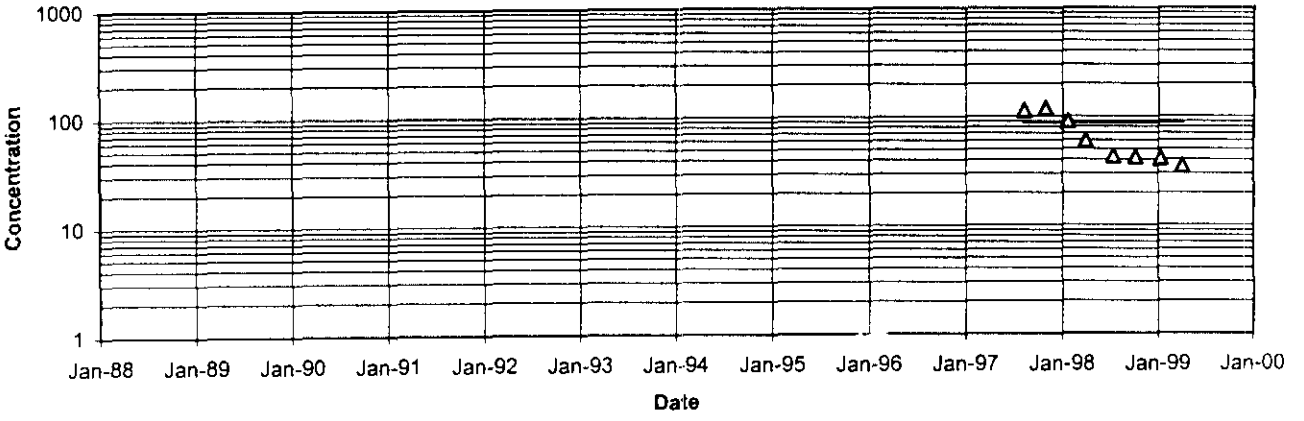
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

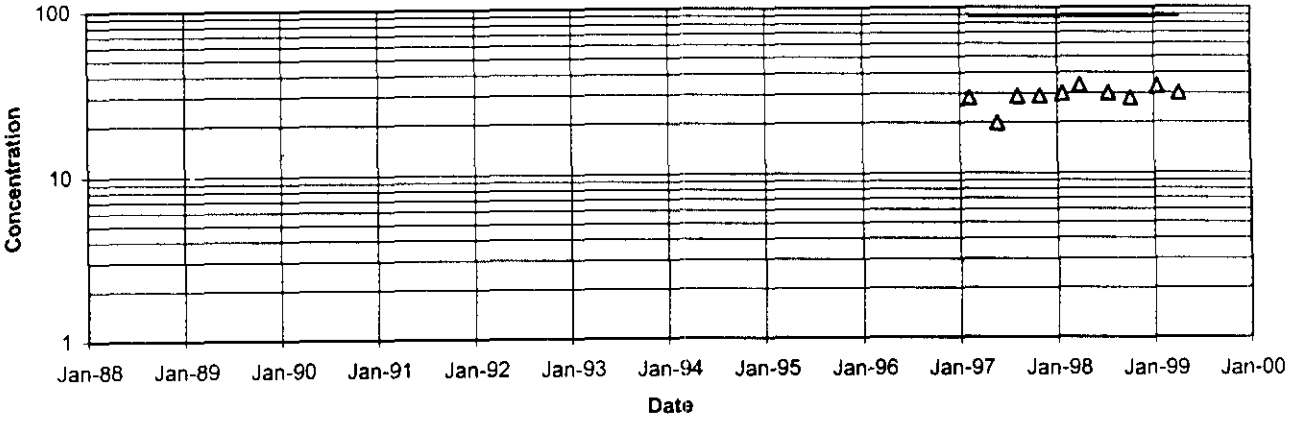
G35D



G35S



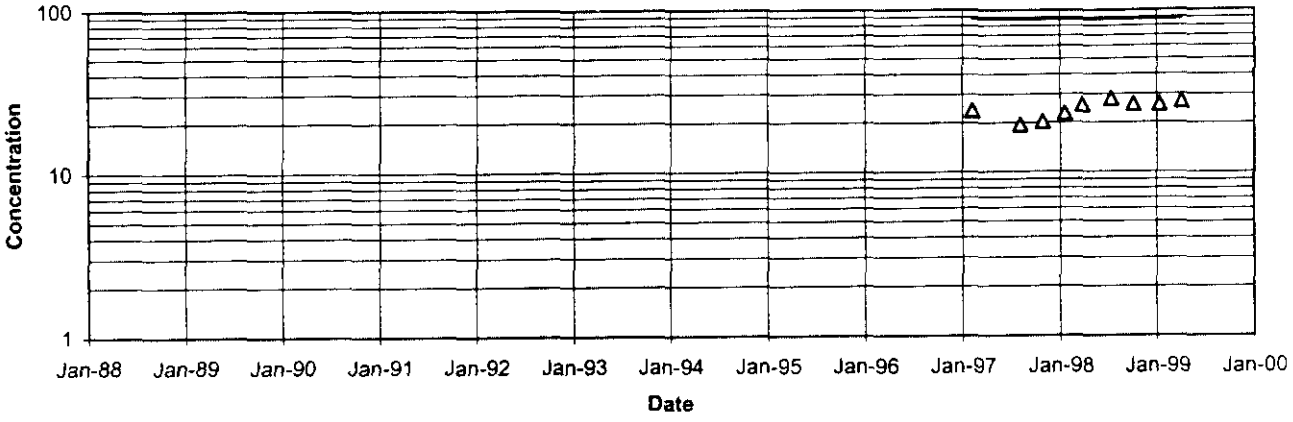
G36



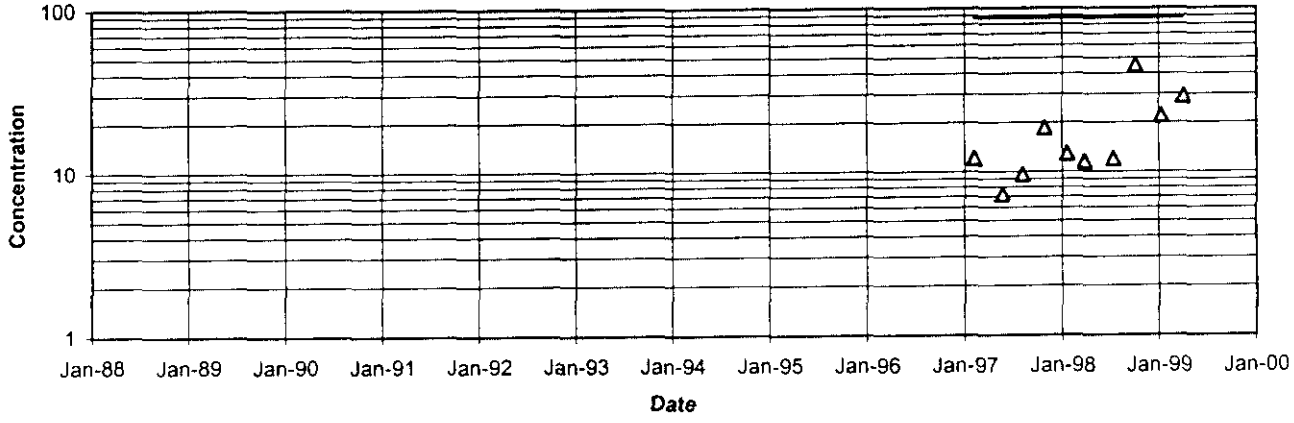
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

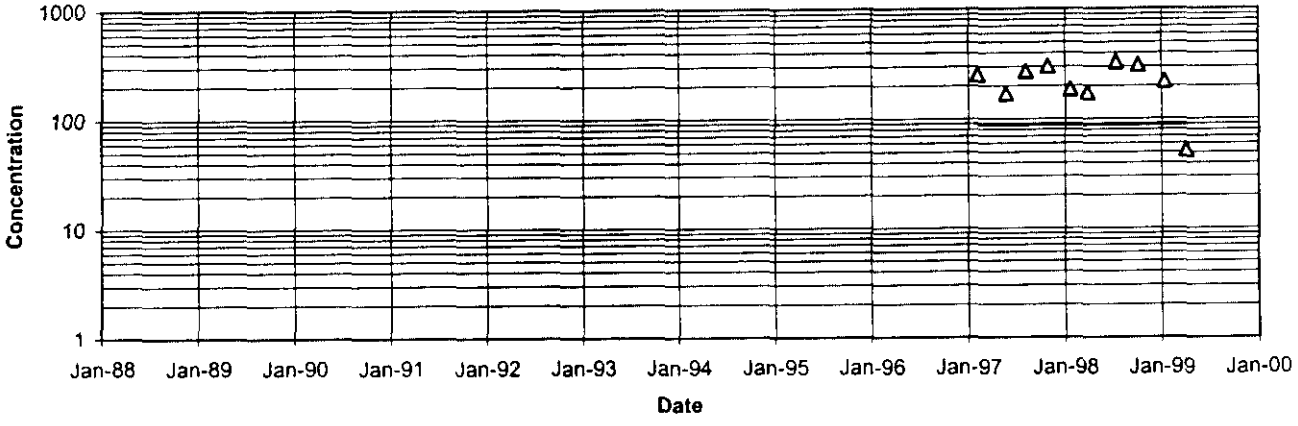
G37D



G37S



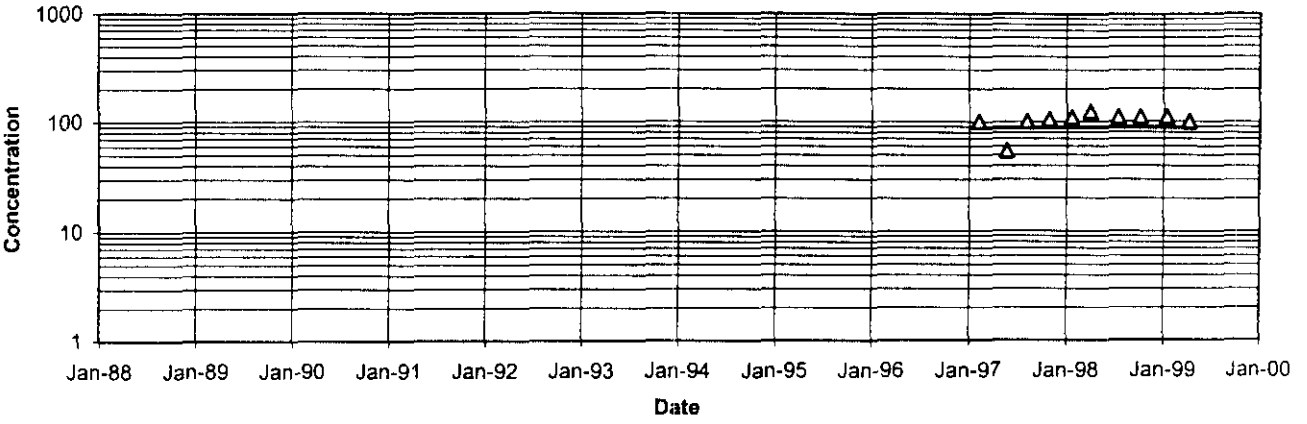
G38



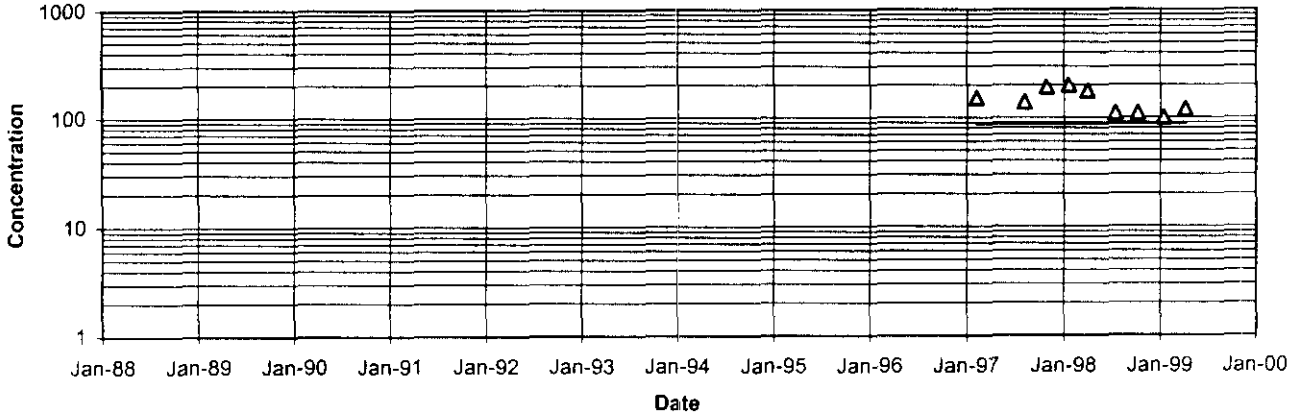
Chloride (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

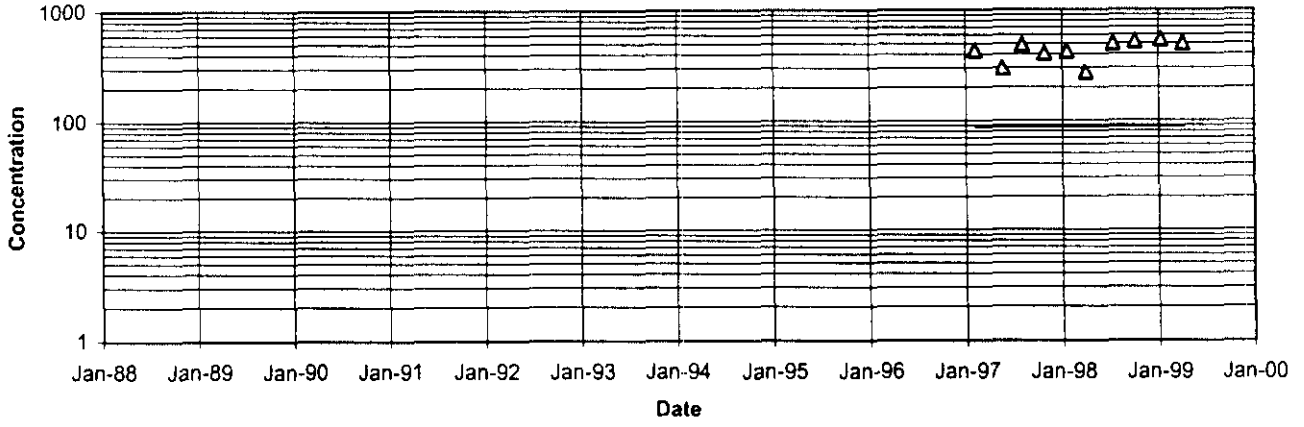
G39



G40



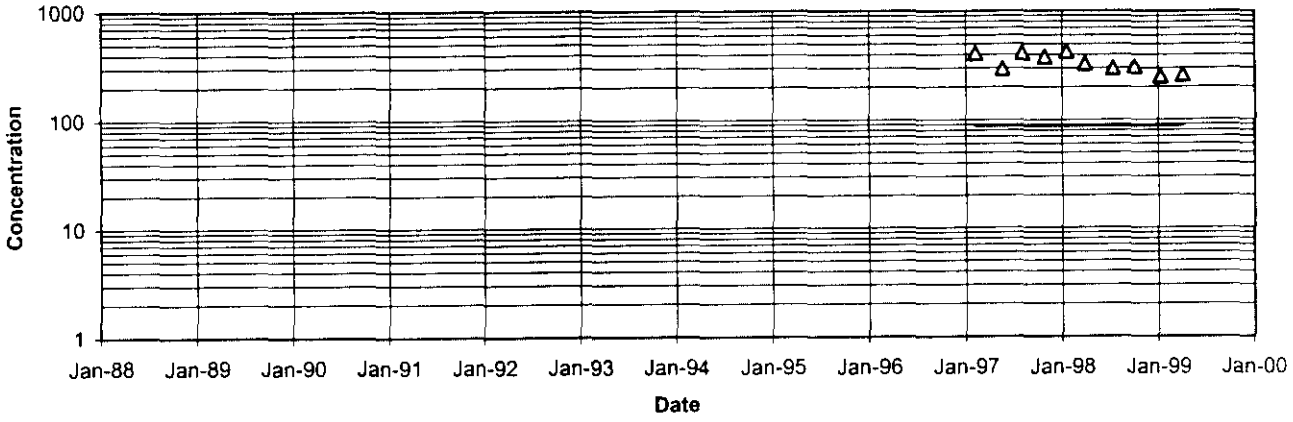
MW106



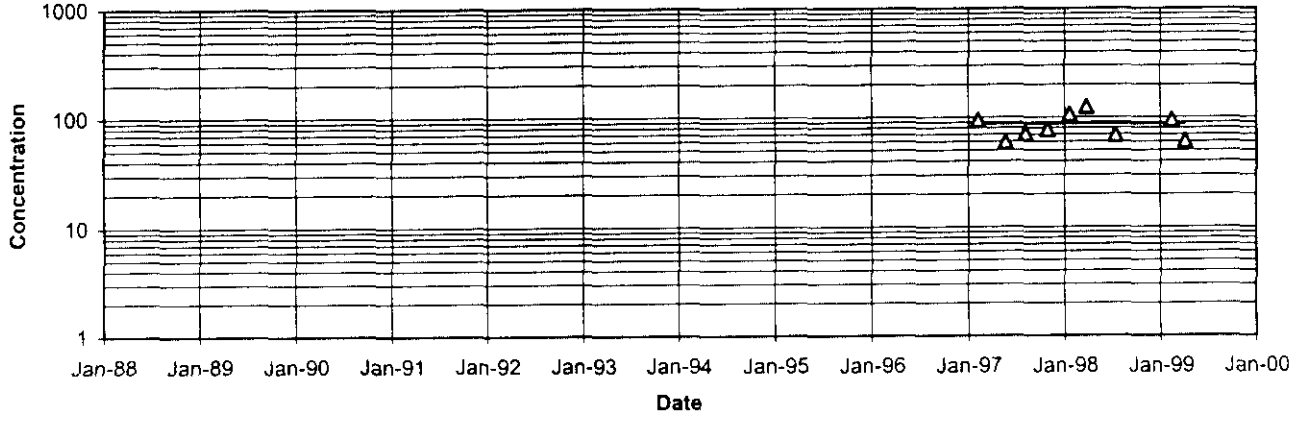
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

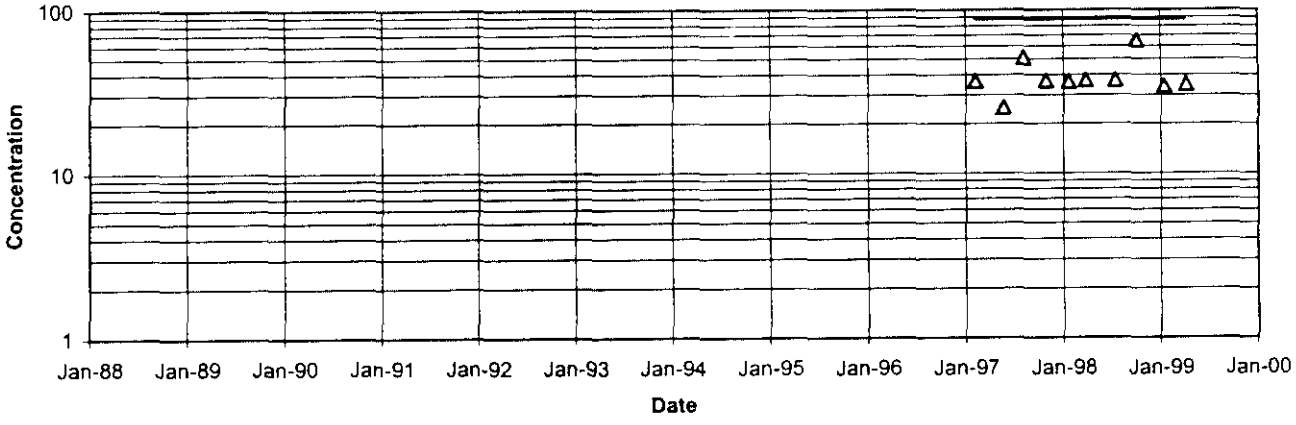
P1



P3R



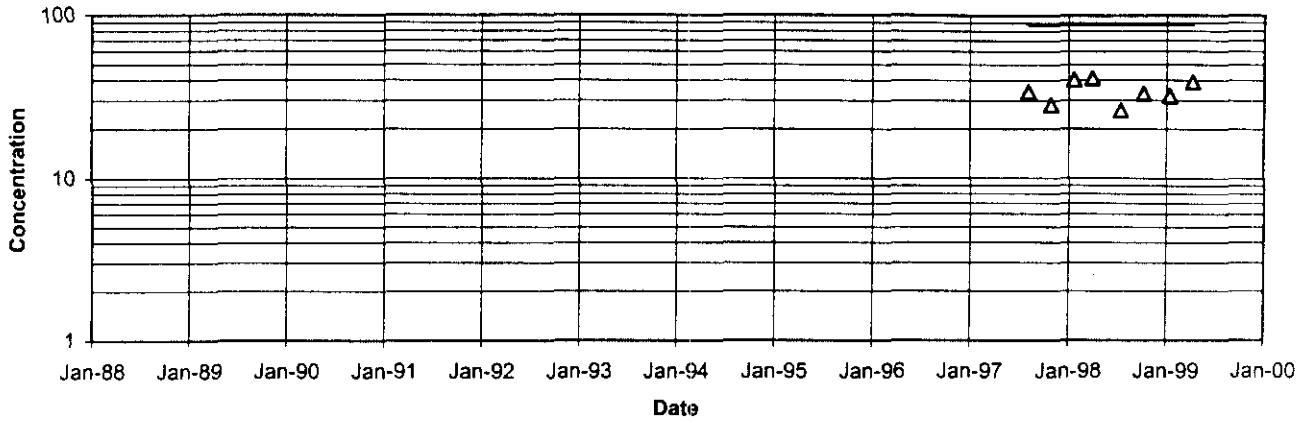
P4R



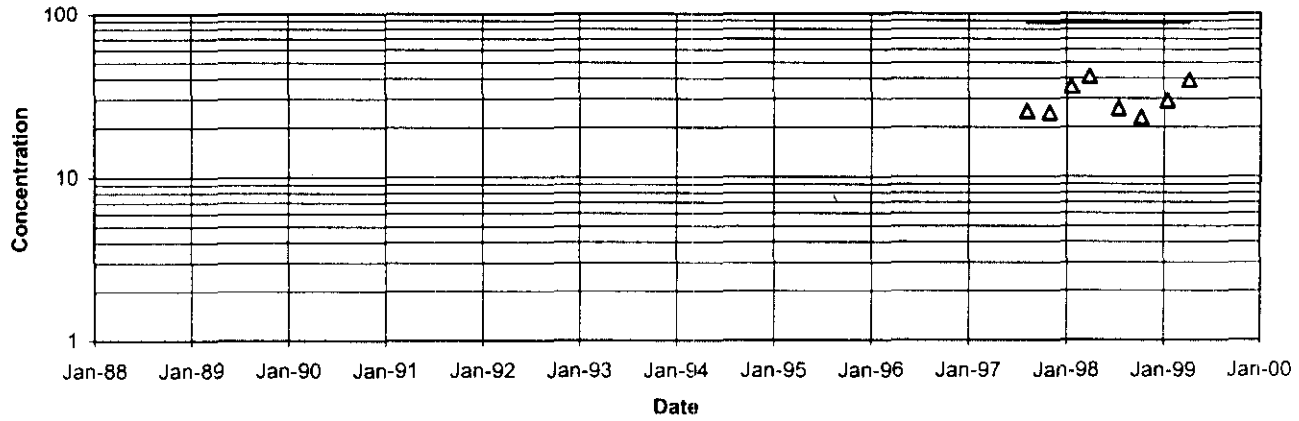
Chloride (dis) (mg/L)

AGQS Δ Concentration O NonDetect

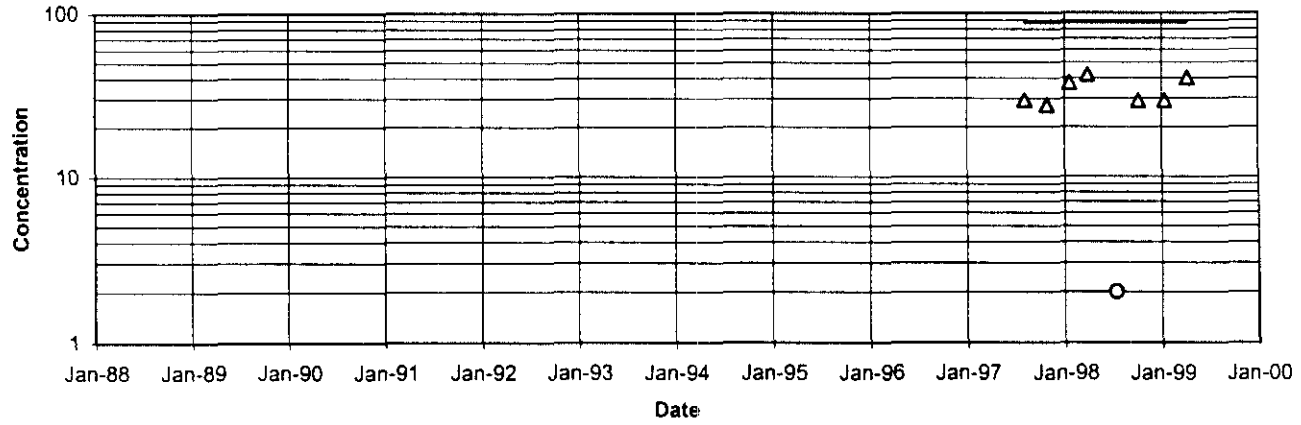
SG1



SG3



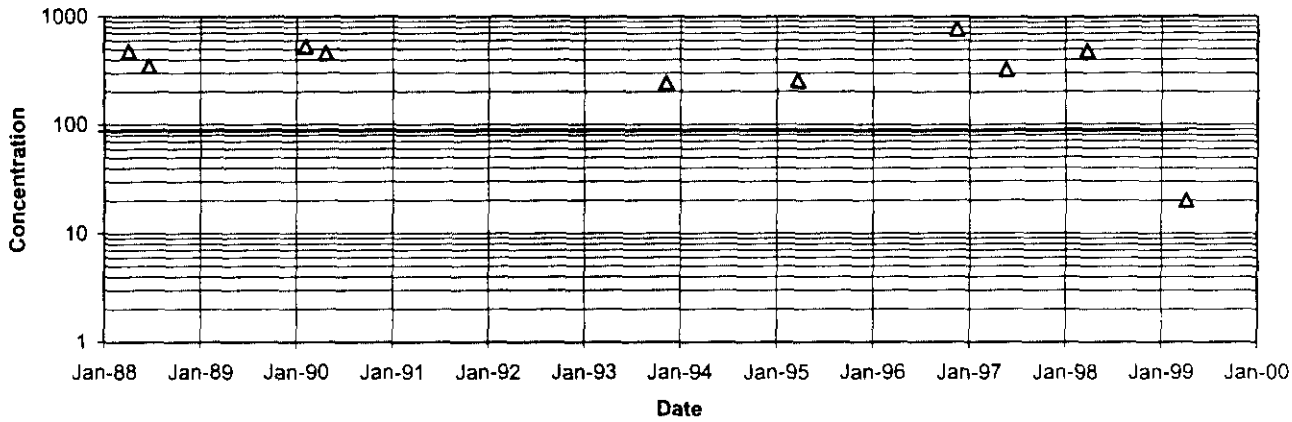
SG4



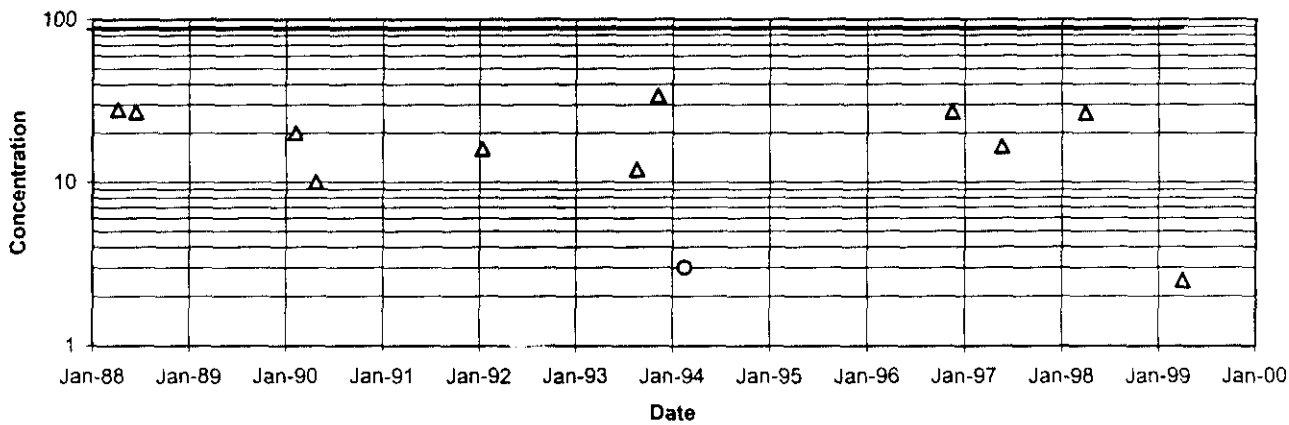
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

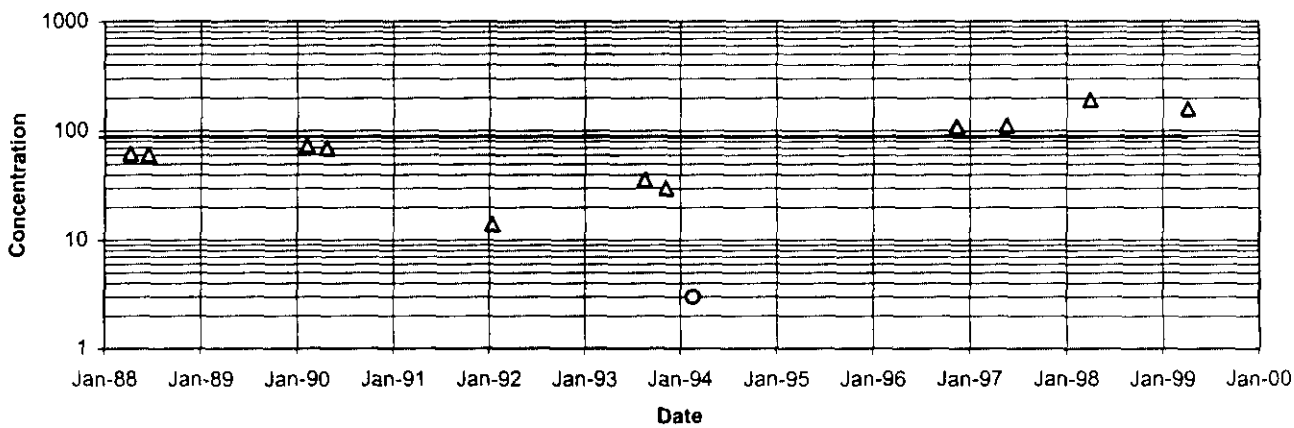
B15R



G109



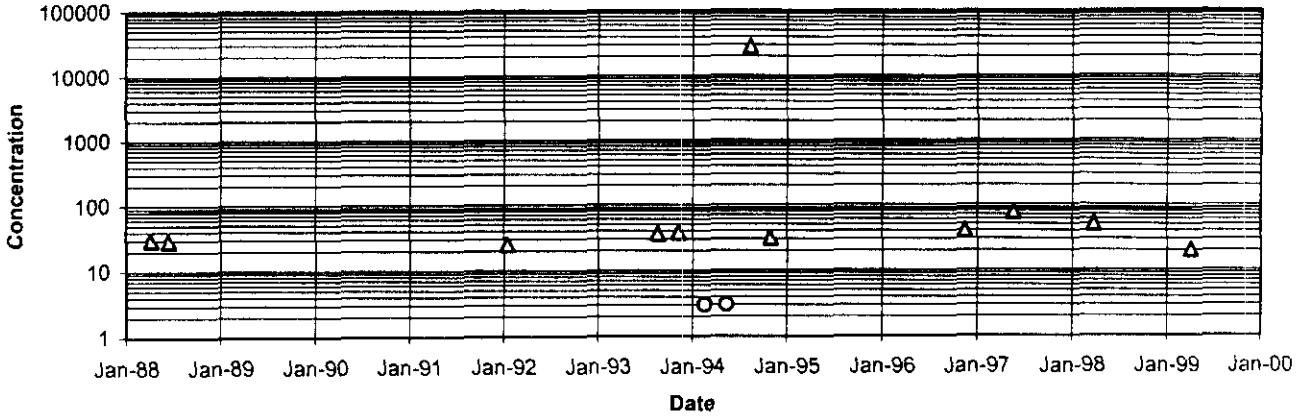
G109A



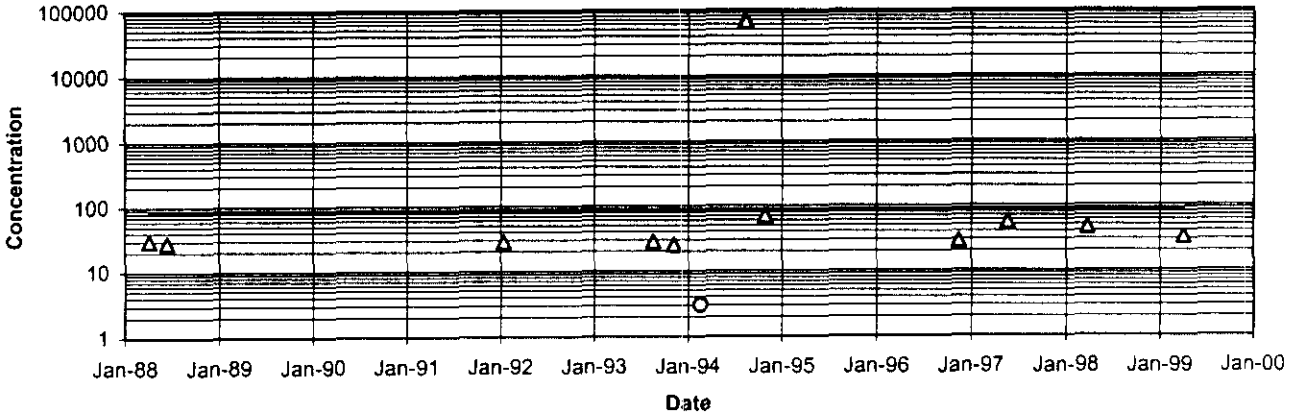
Chloride (mg/L)

AGQS Δ Concentration ○ NonDetect

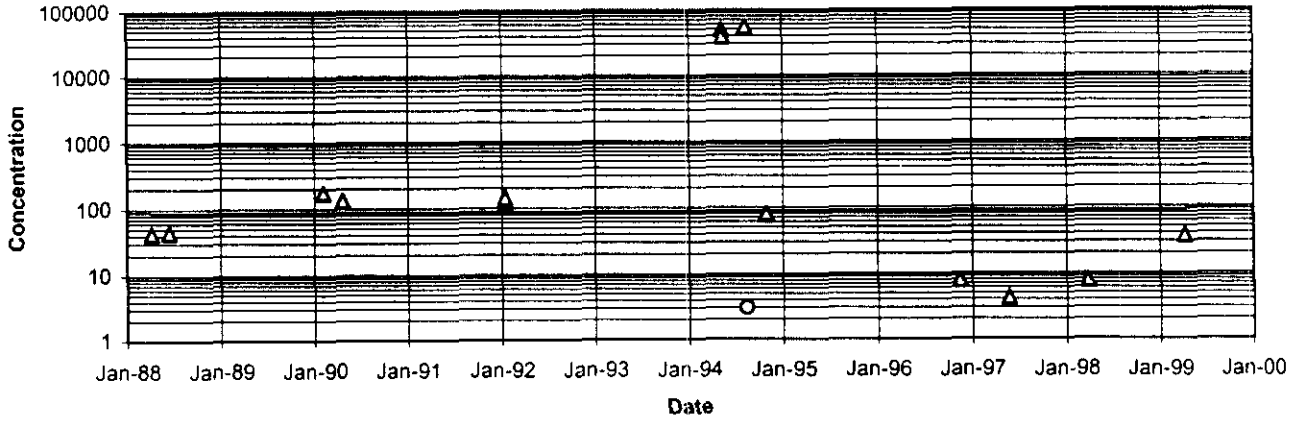
G113



G113A



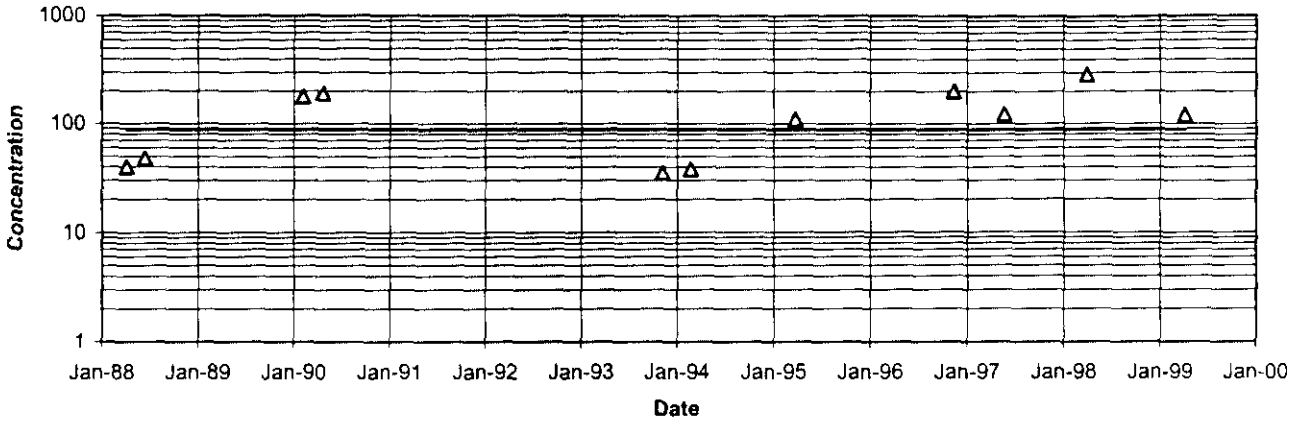
G114



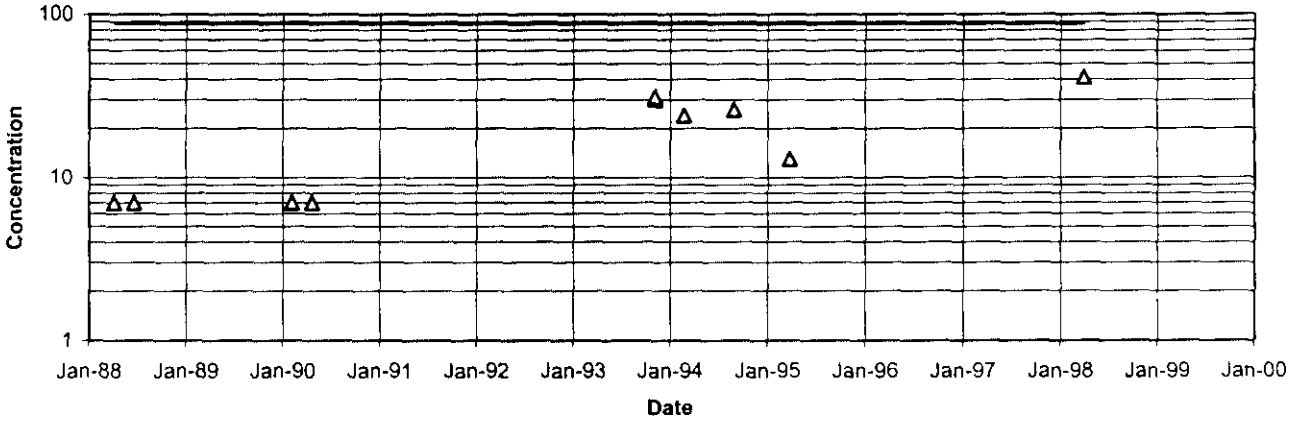
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

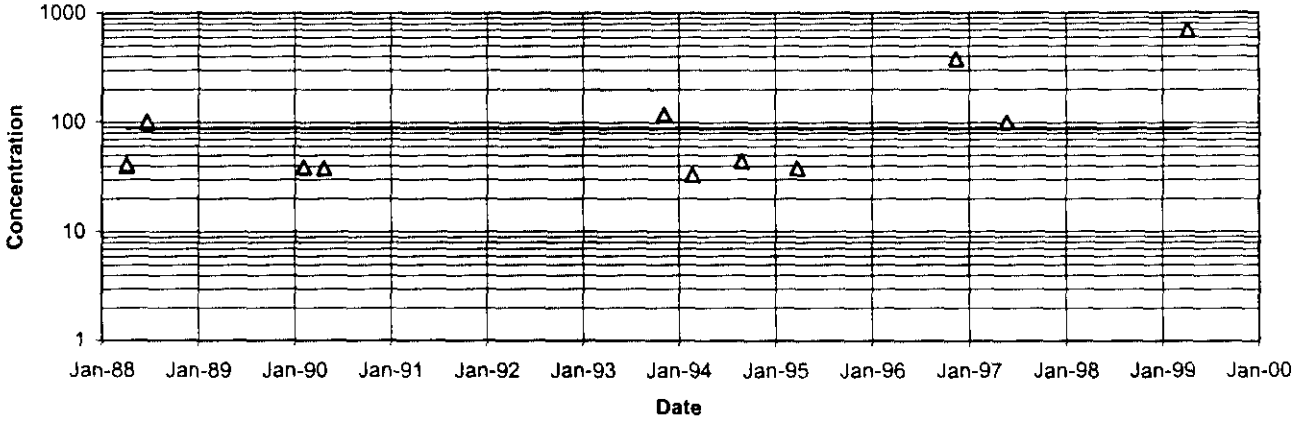
G115



G116



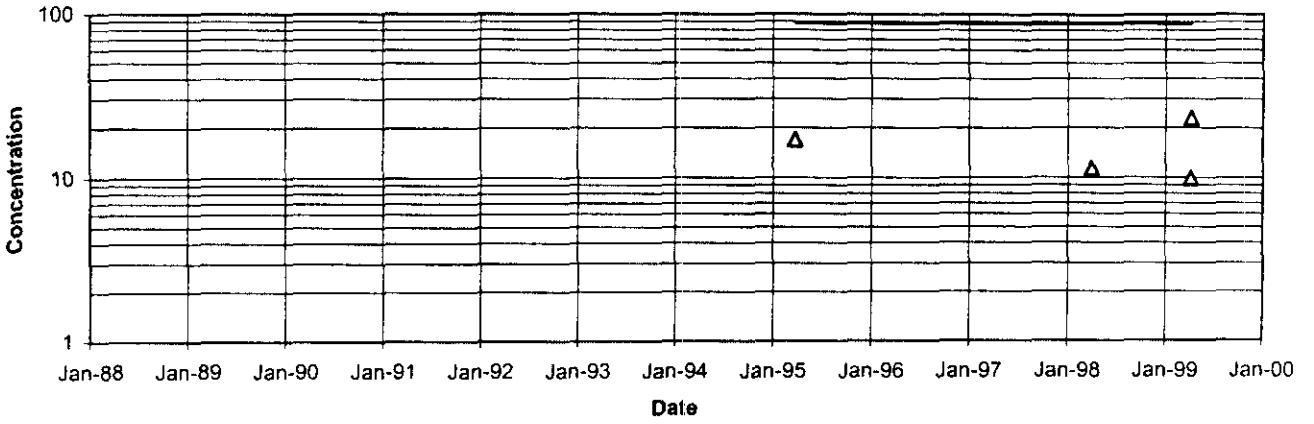
G116A



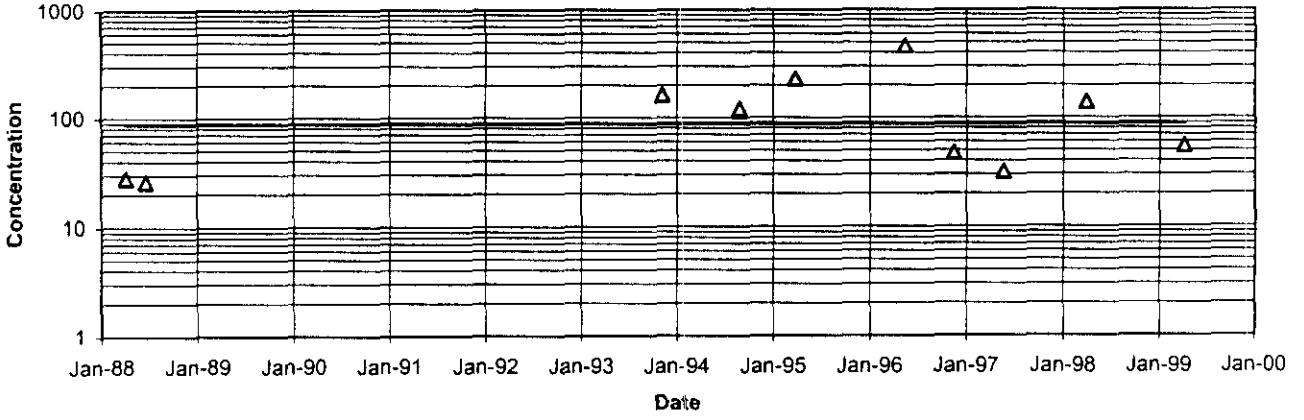
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

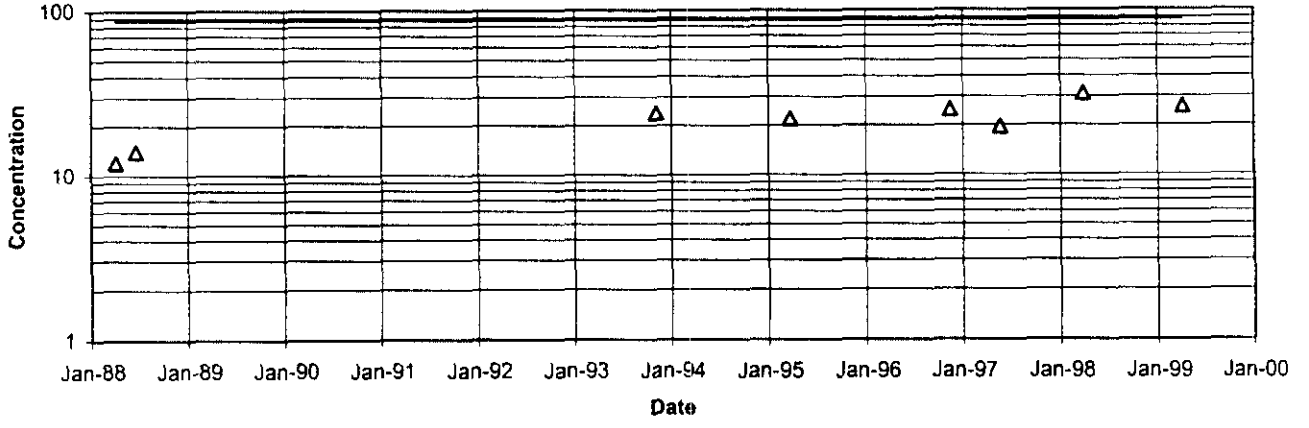
G116D



G117



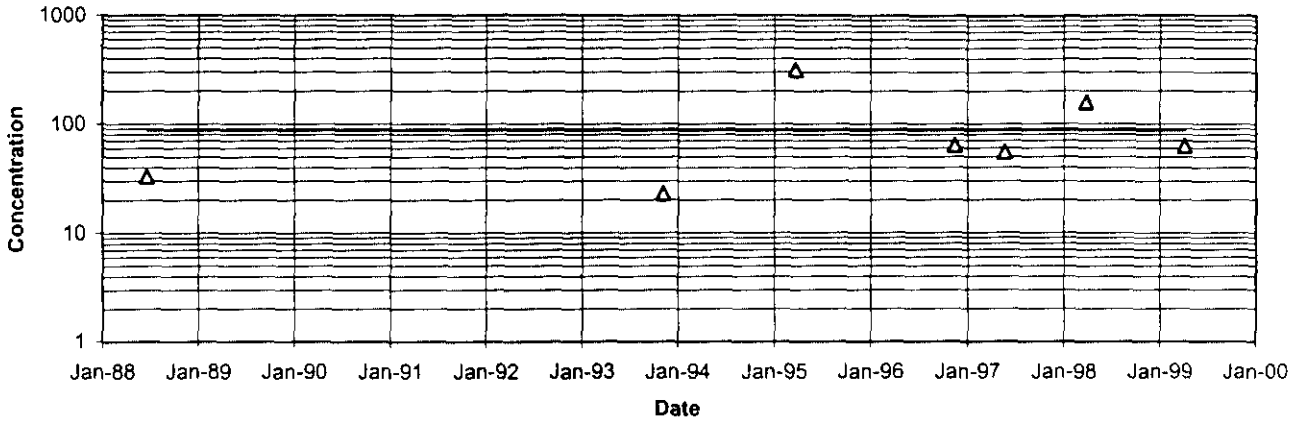
G118A



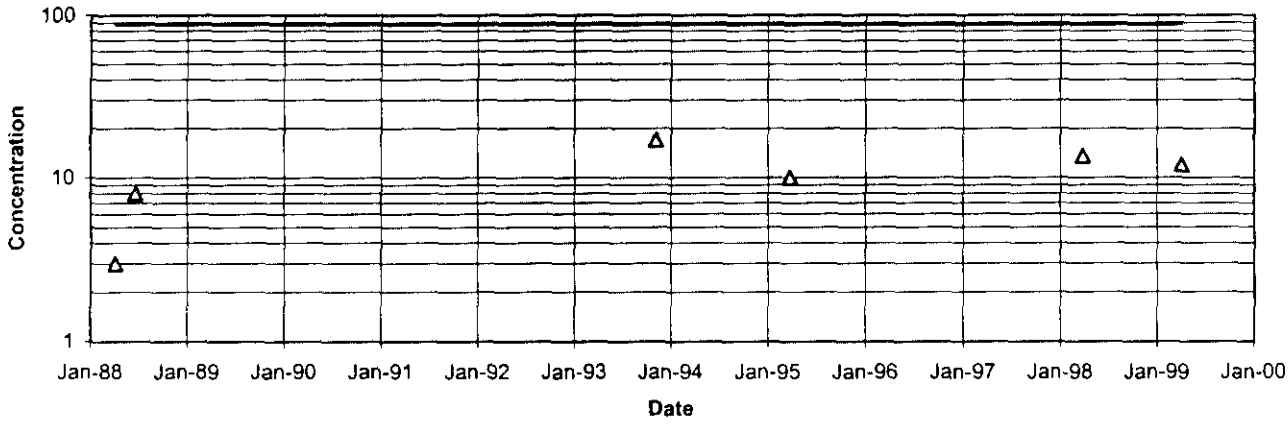
Chloride (mg/L)

AGQS Δ Concentration ○ NonDetect

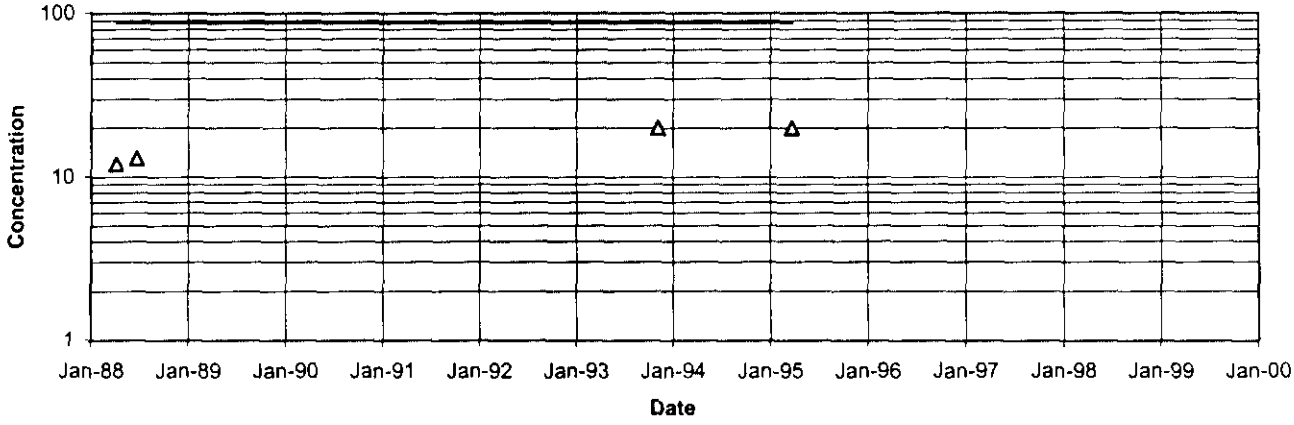
G118R



G119



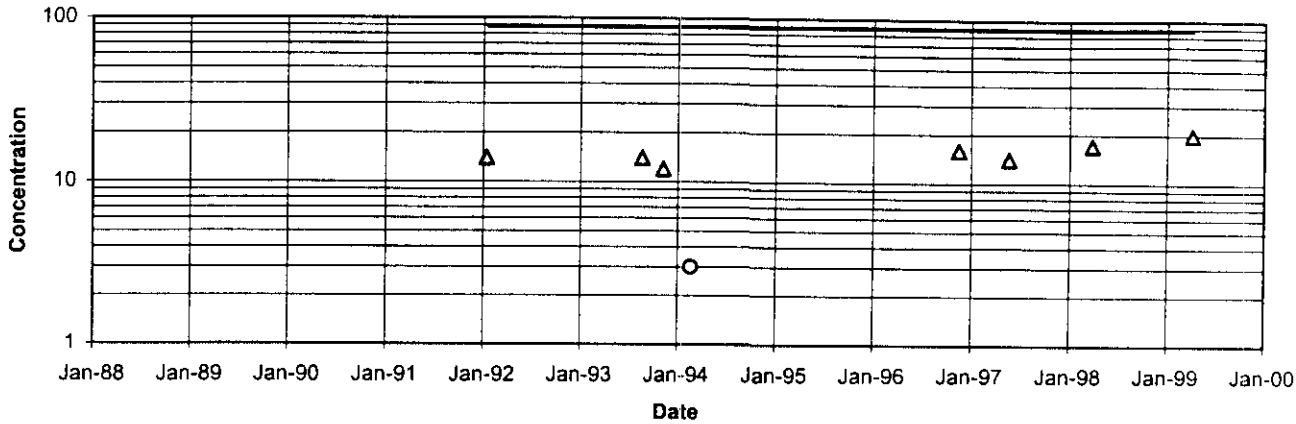
G119A



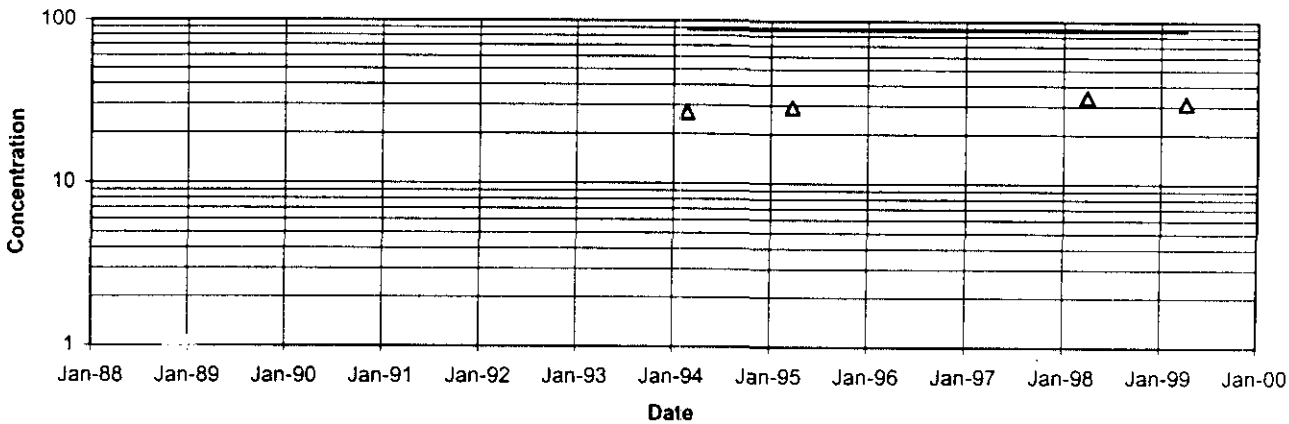
Chloride (mg/L)

AGQS Δ Concentration ○ NonDetect

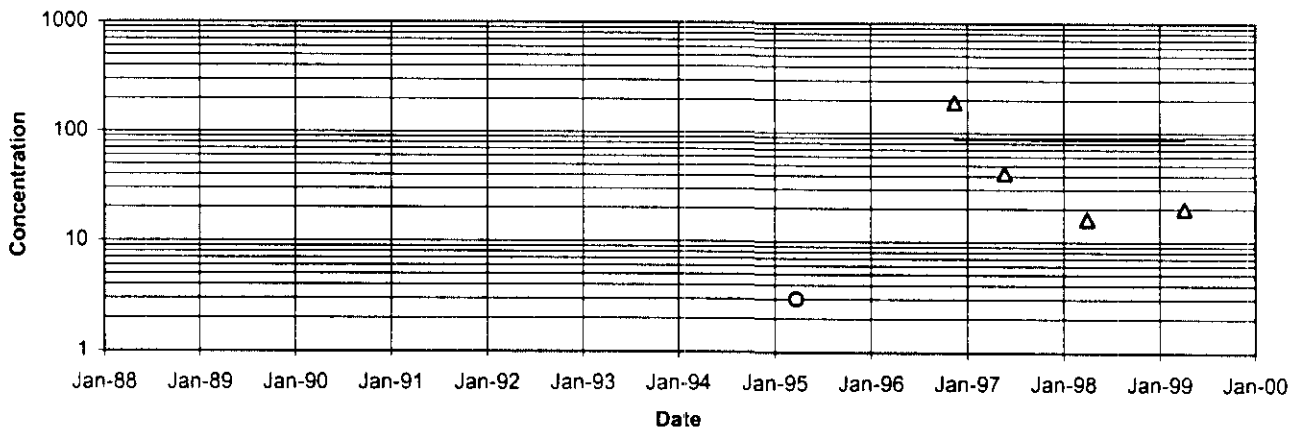
G120B



G130



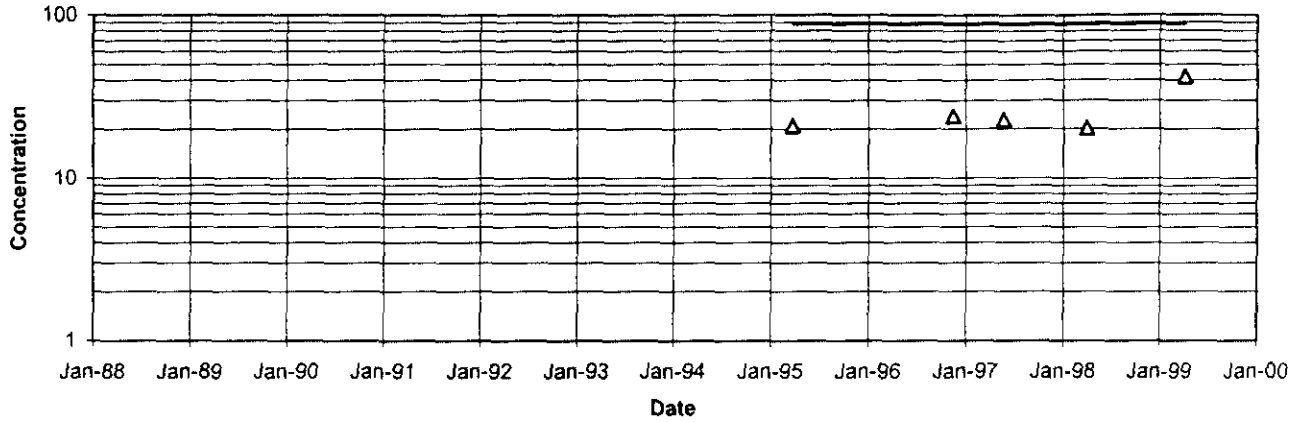
G132



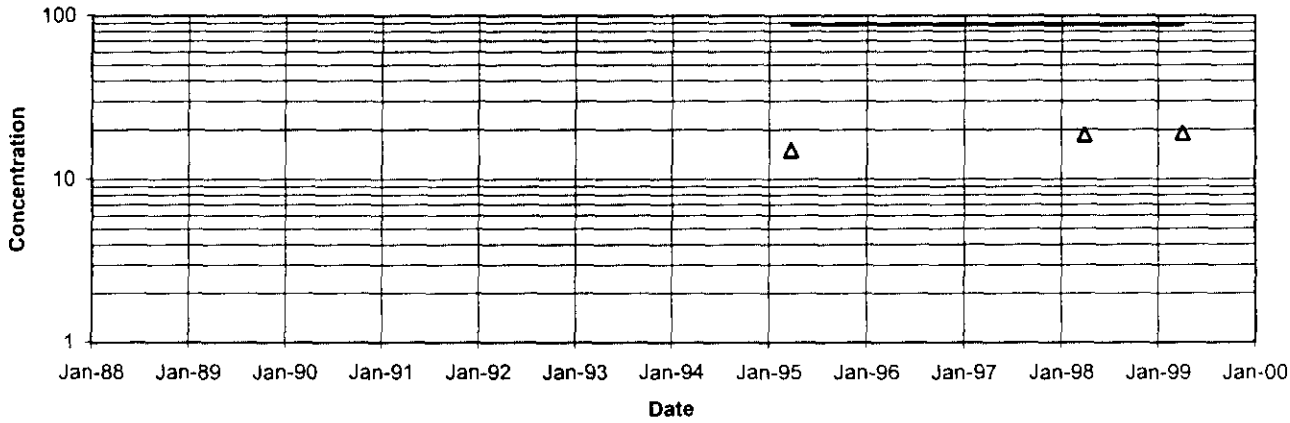
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

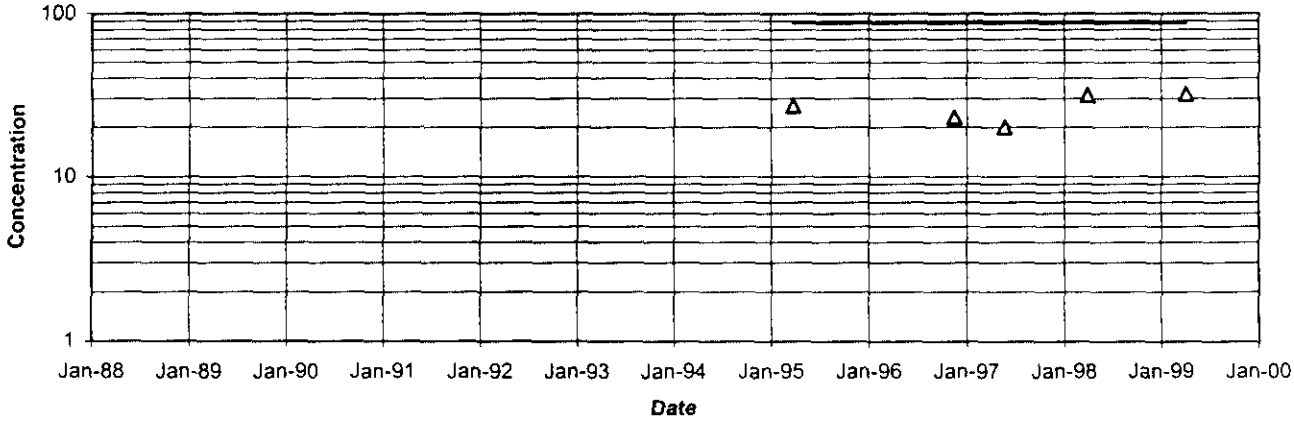
G33D



G33S



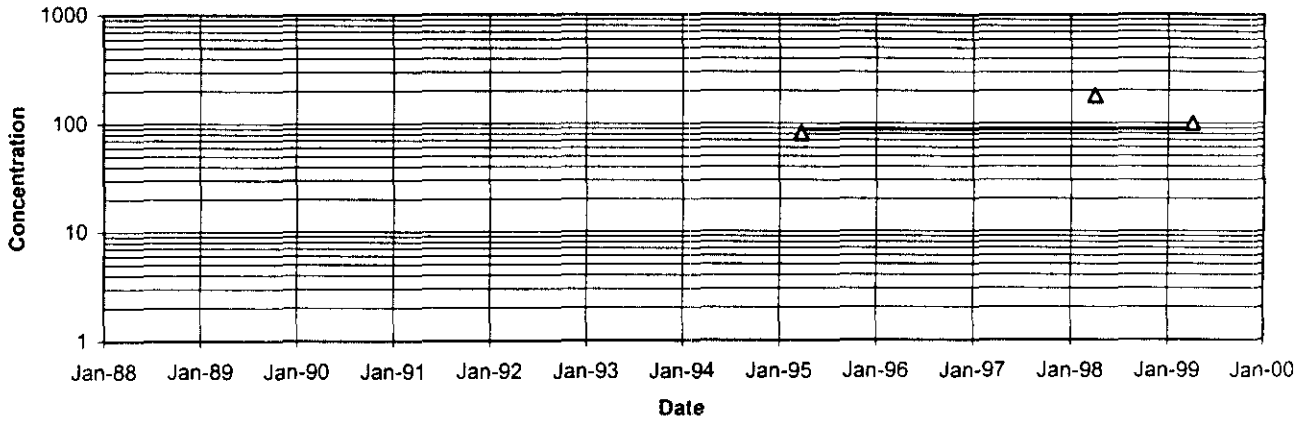
G34D



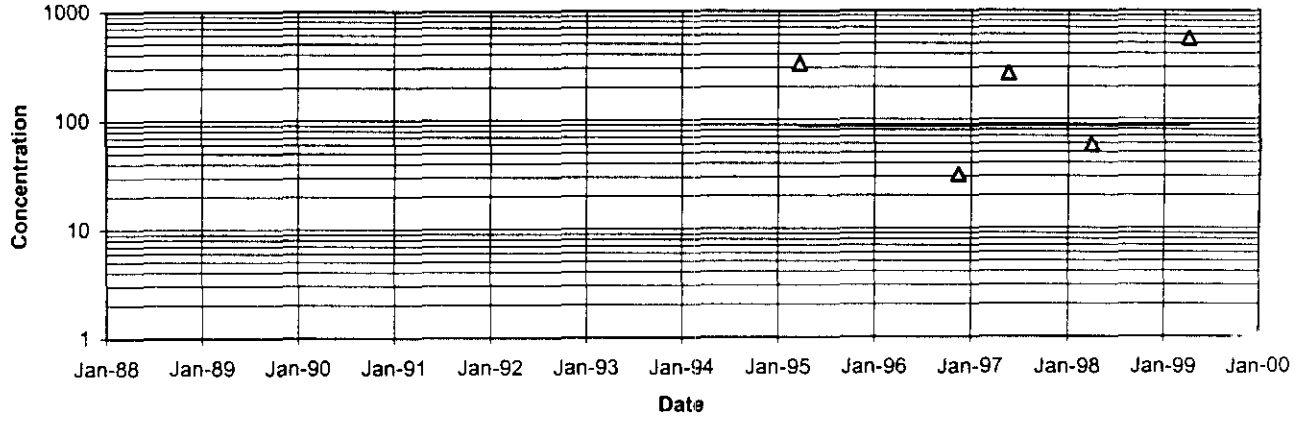
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

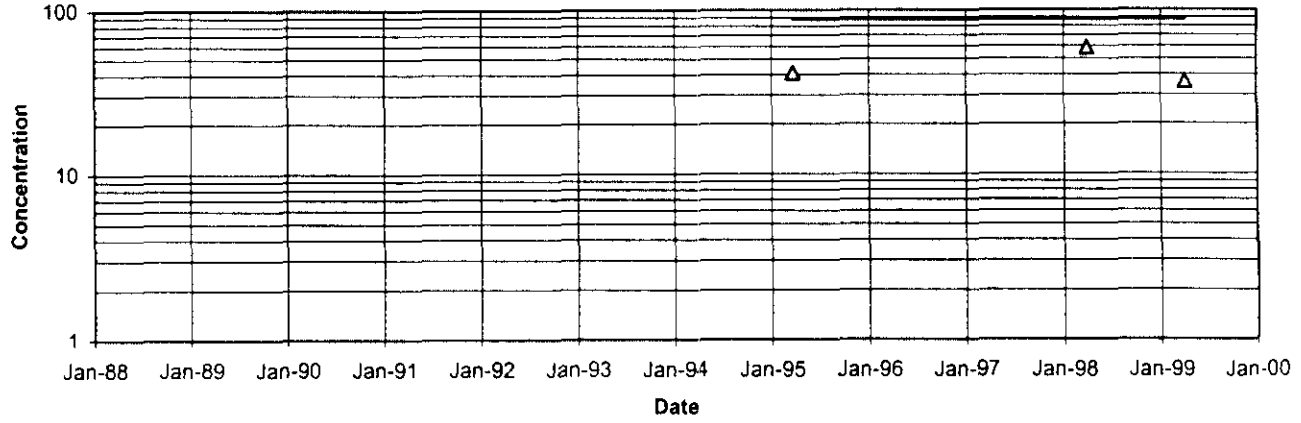
G34S



G35D



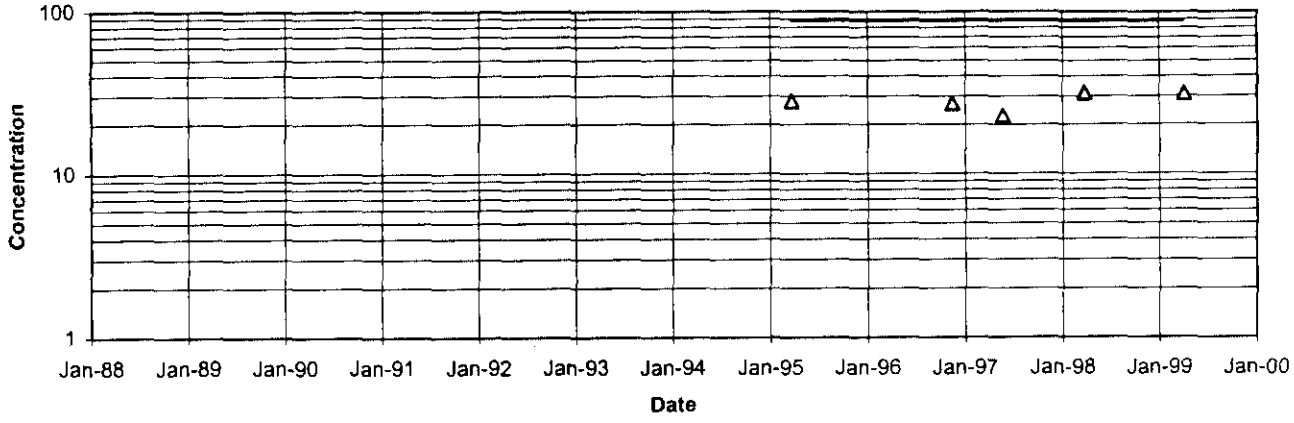
G35S



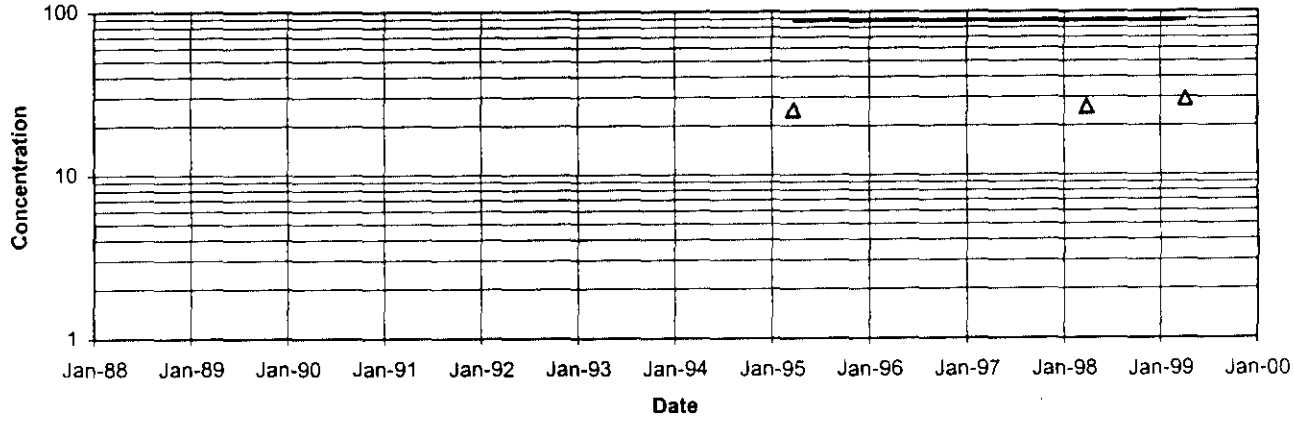
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

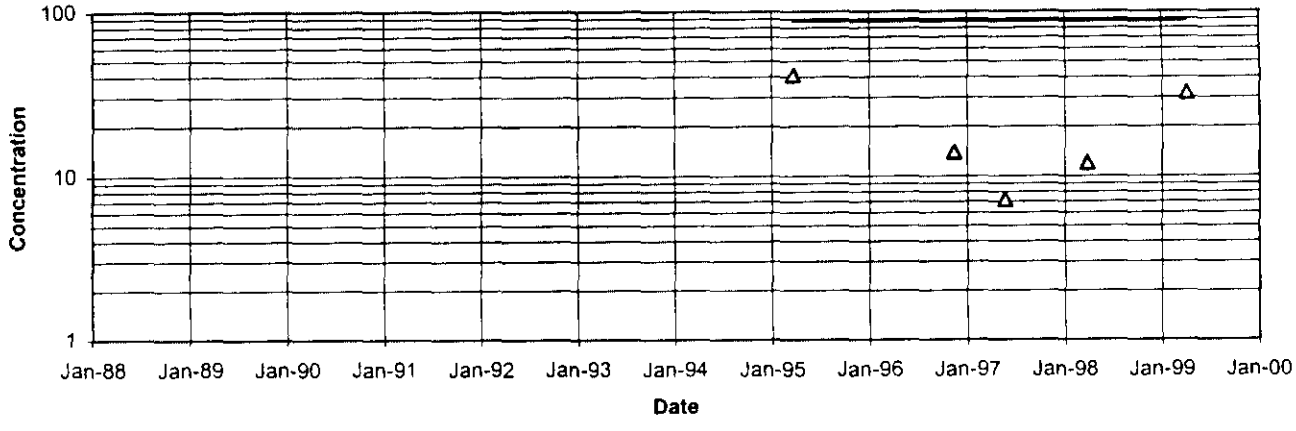
G36



G37D



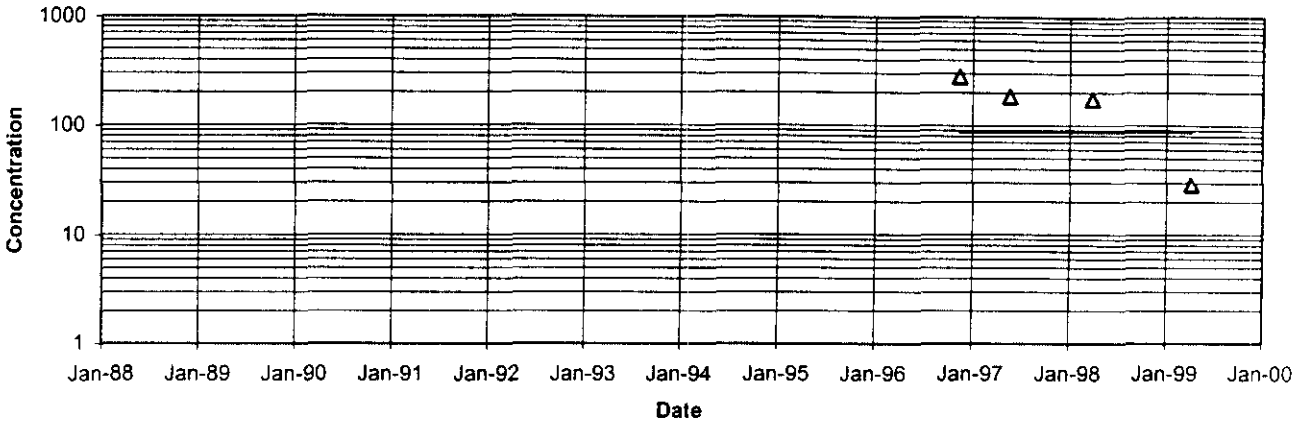
G37S



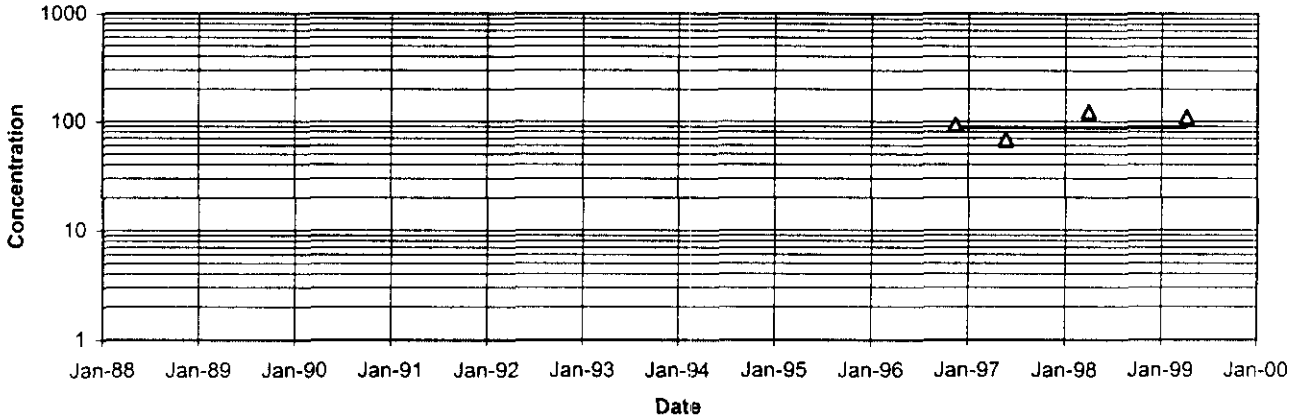
Chloride (mg/L)

AGQS Δ Concentration ○ NonDetect

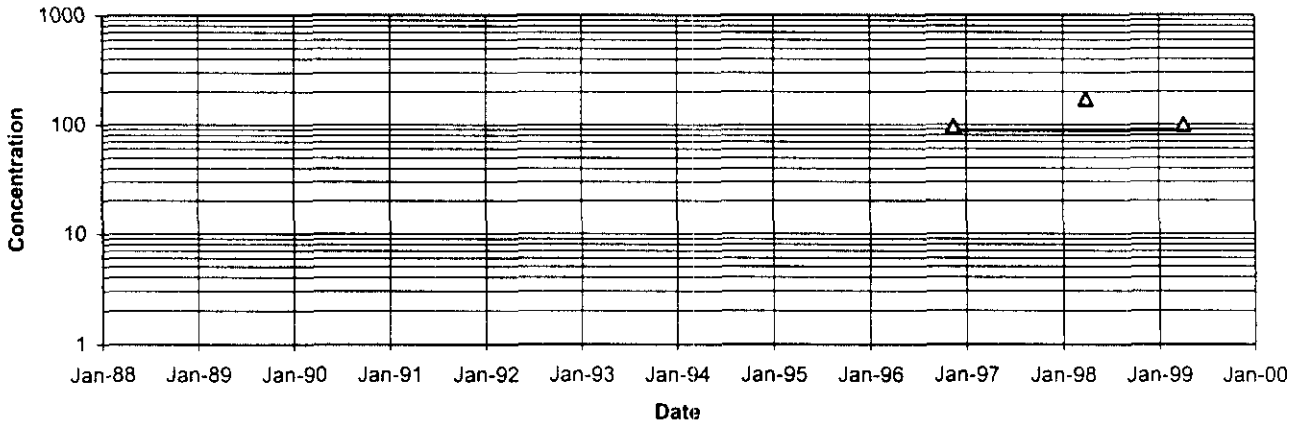
G38



G39



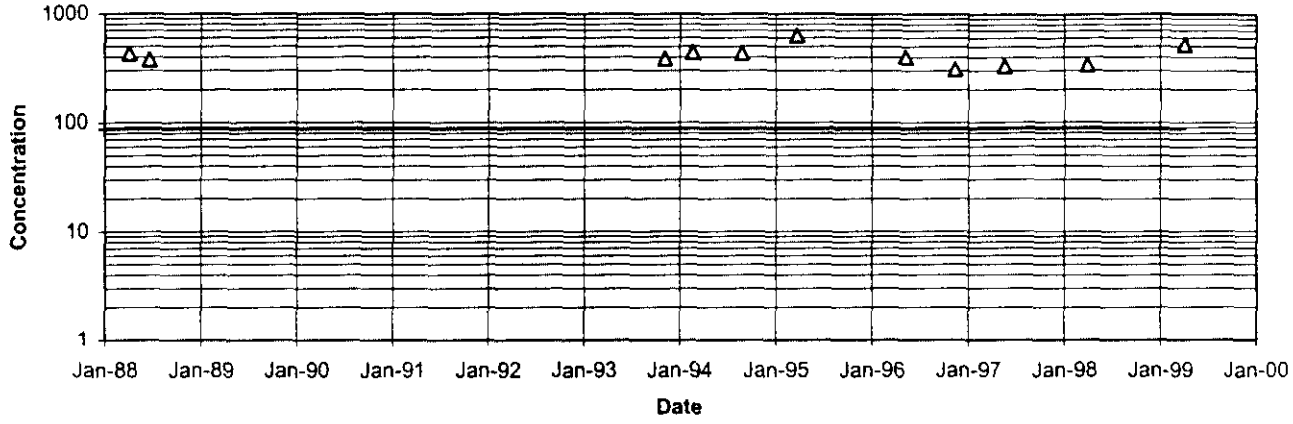
G40



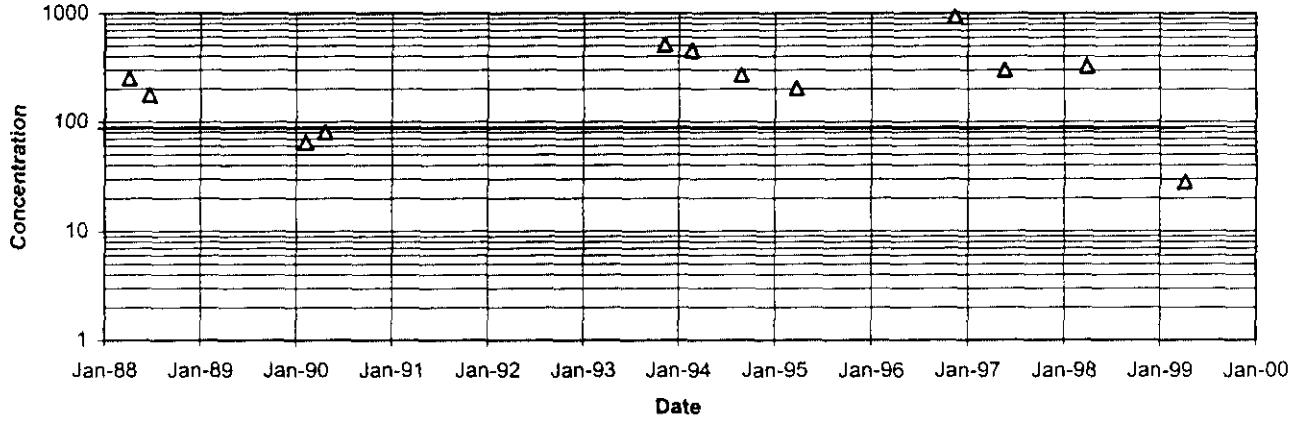
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

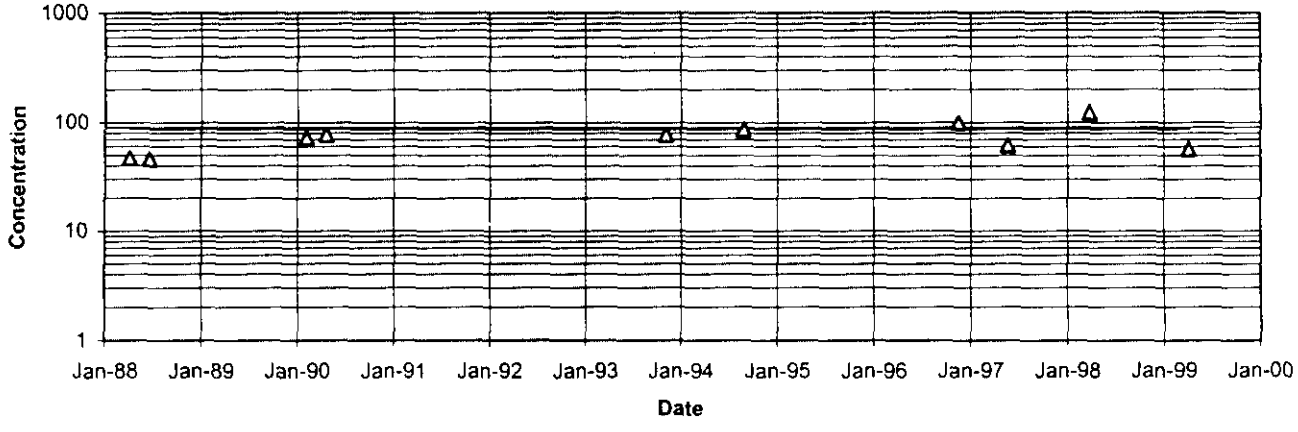
MW106



P1



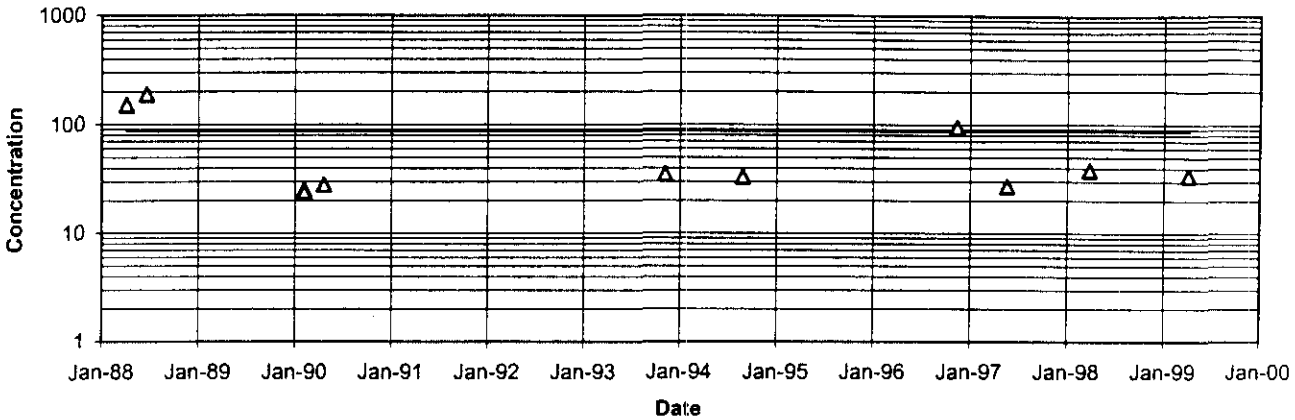
P3R



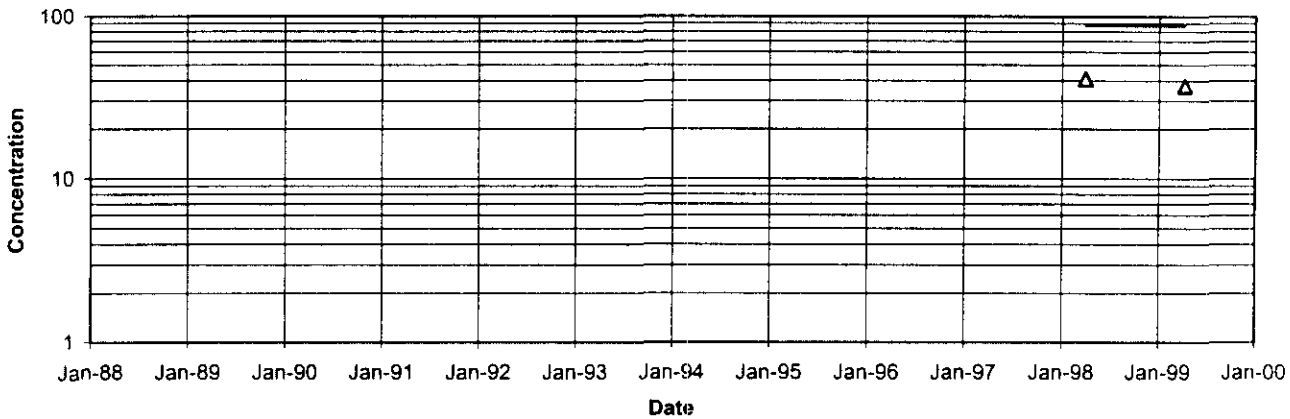
Chloride (mg/L)

AGQS Δ Concentration O NonDetect

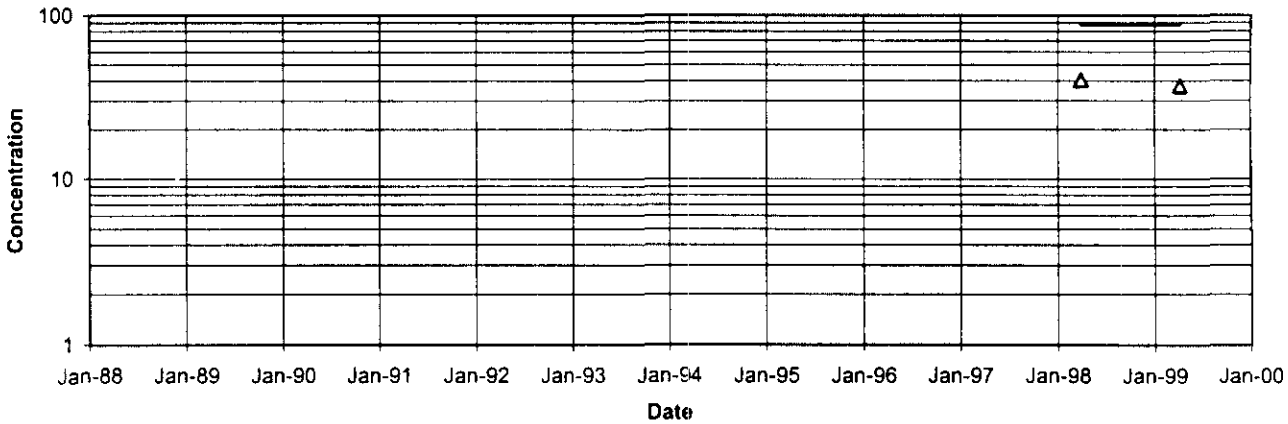
P4R



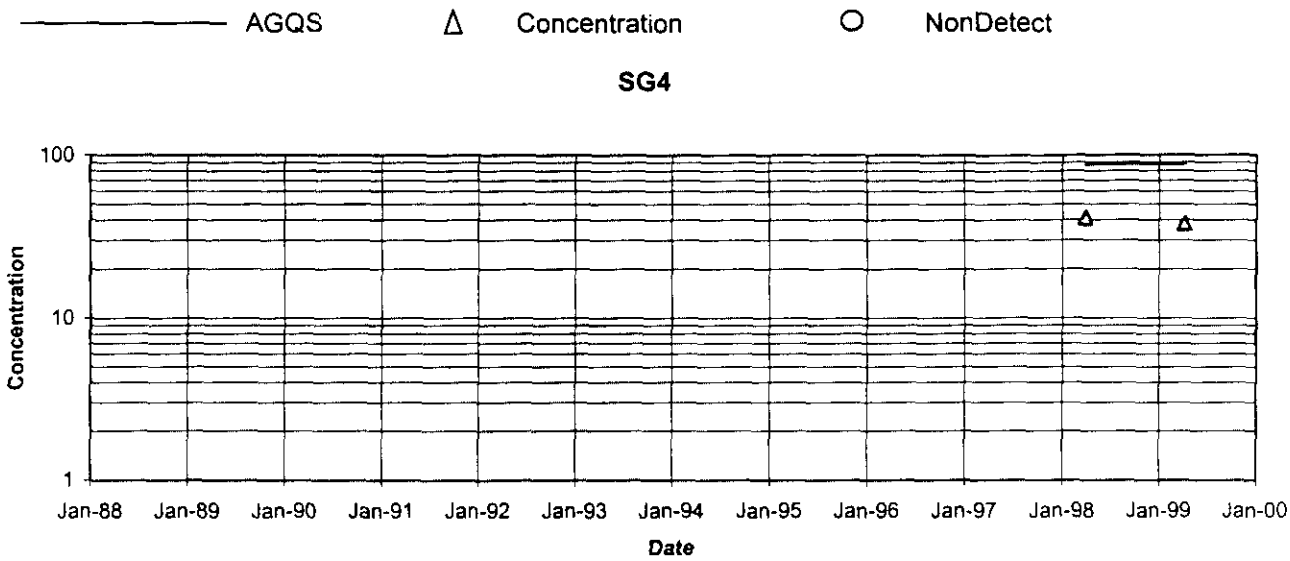
SG1



SG3



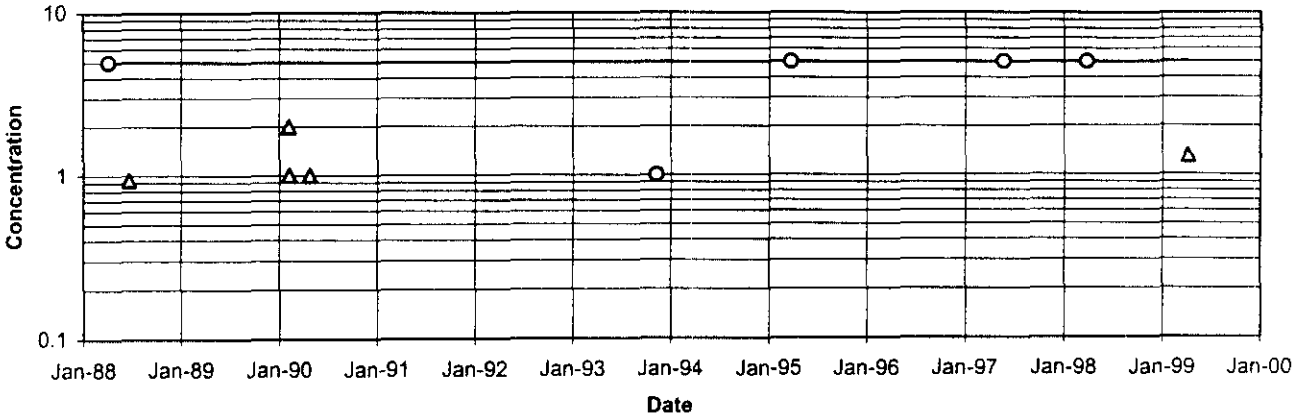
Chloride (mg/L)



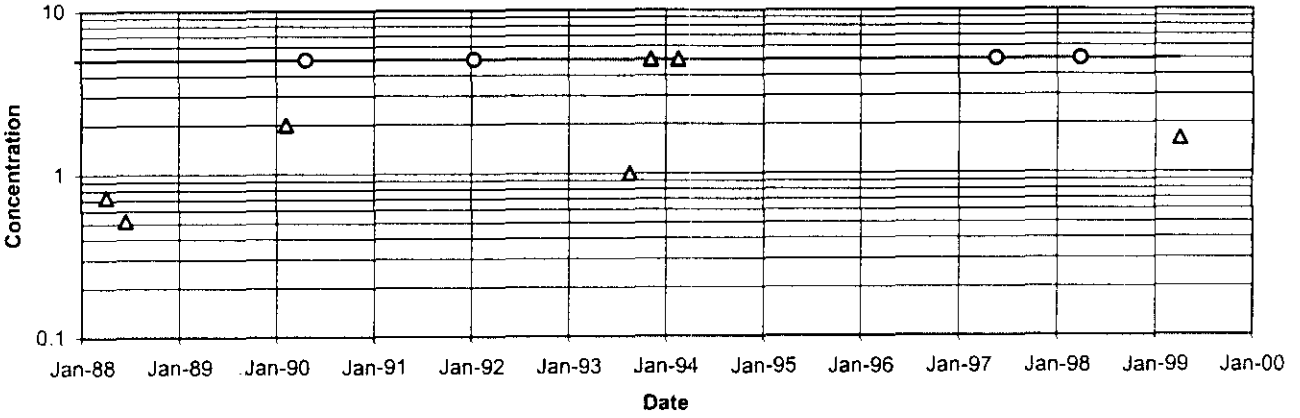
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

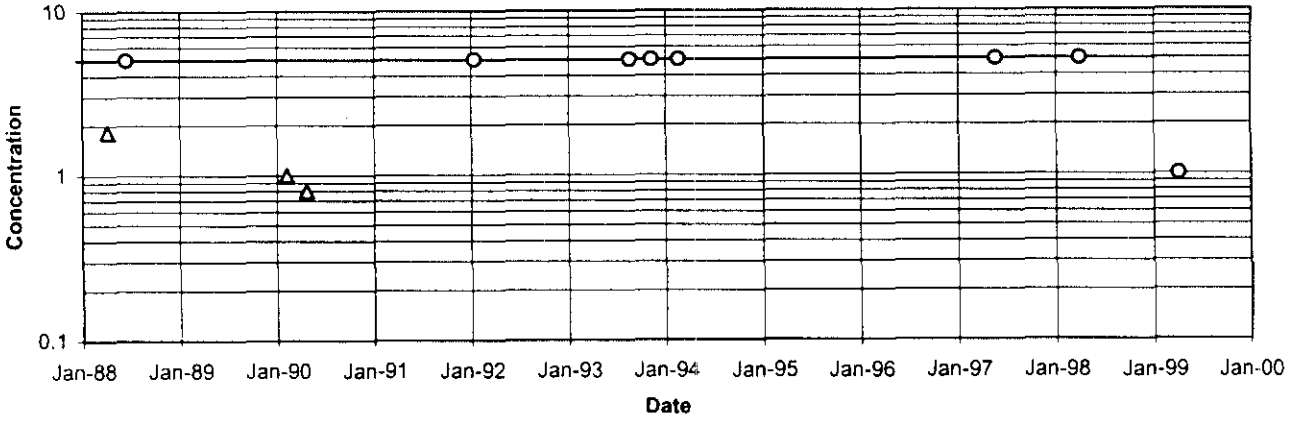
B15R



G109



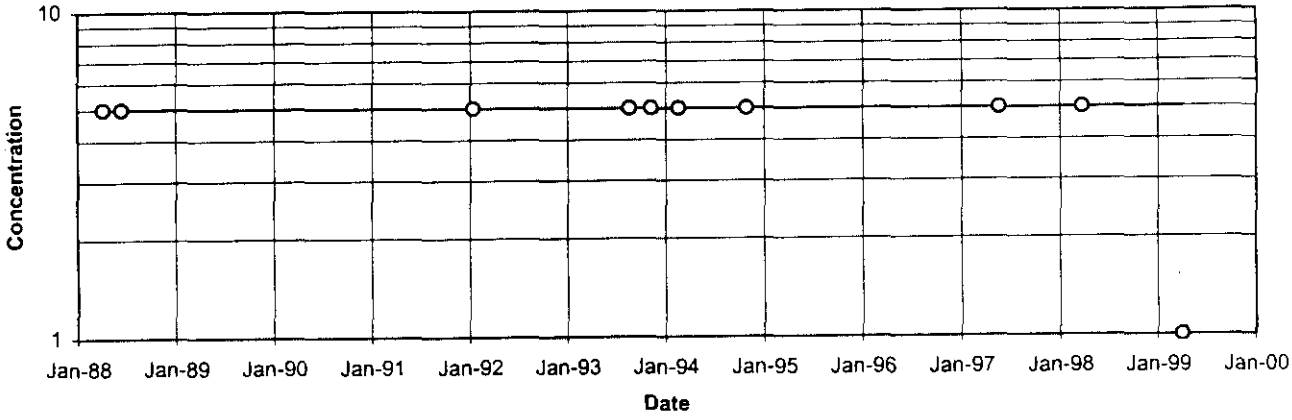
G109A



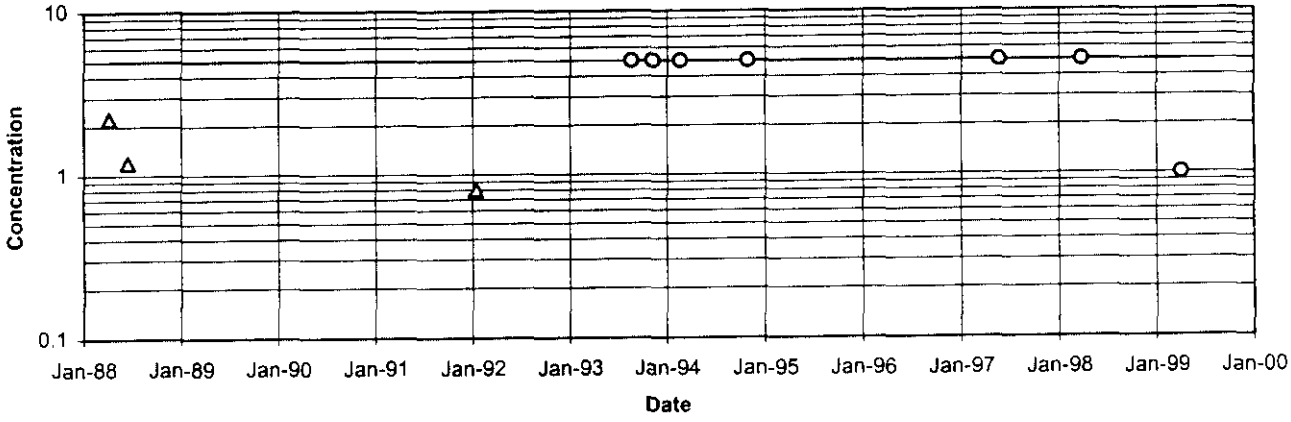
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

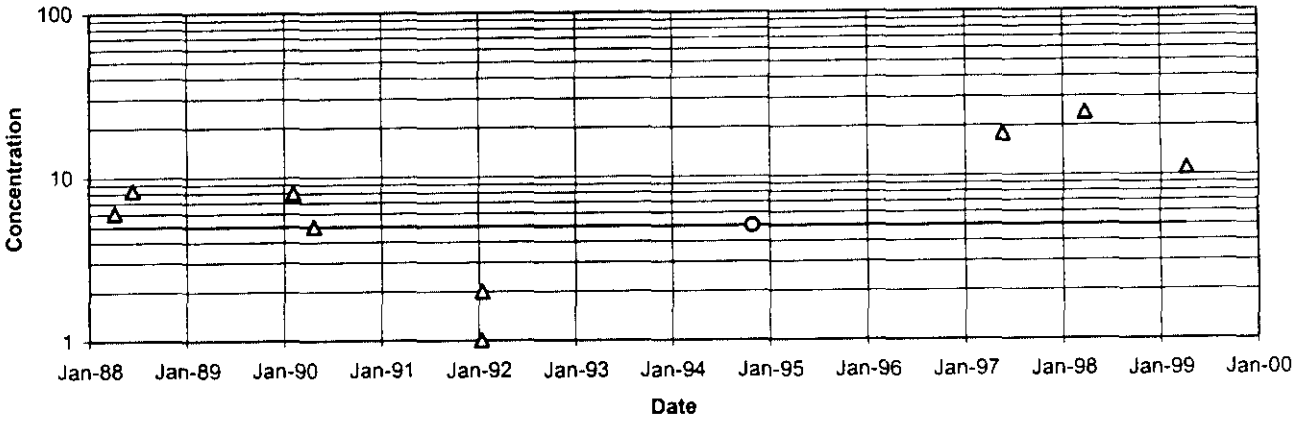
G113



G113A



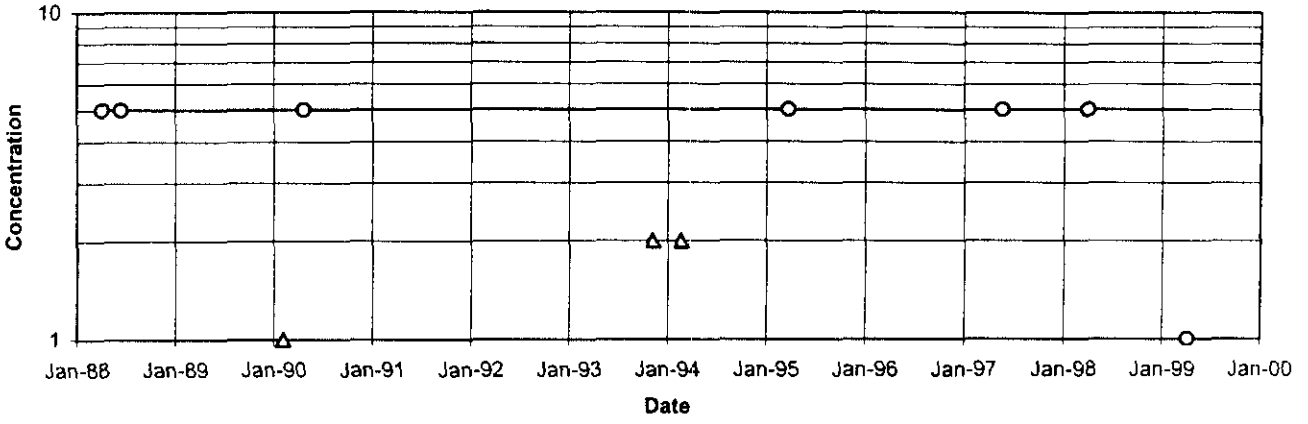
G114



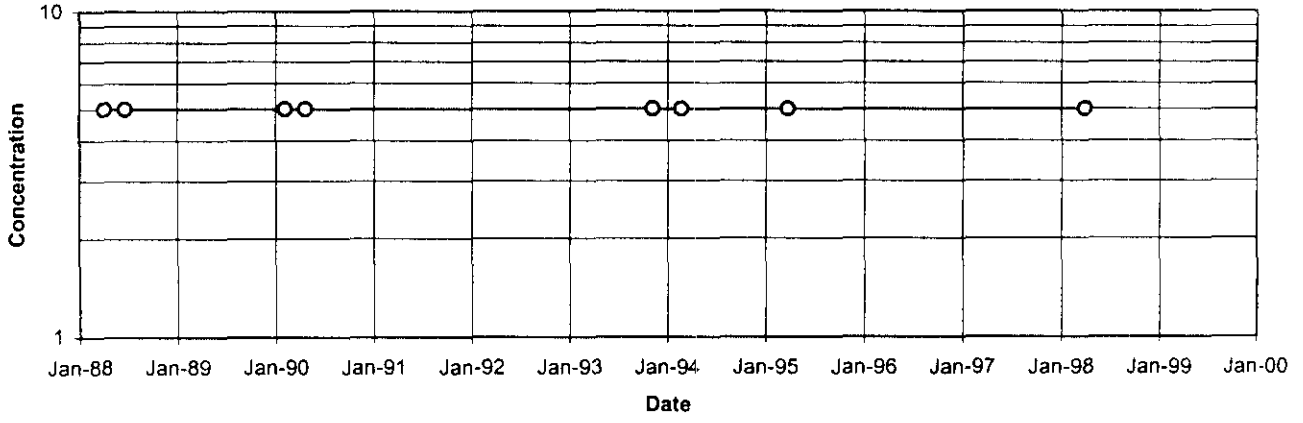
Chlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

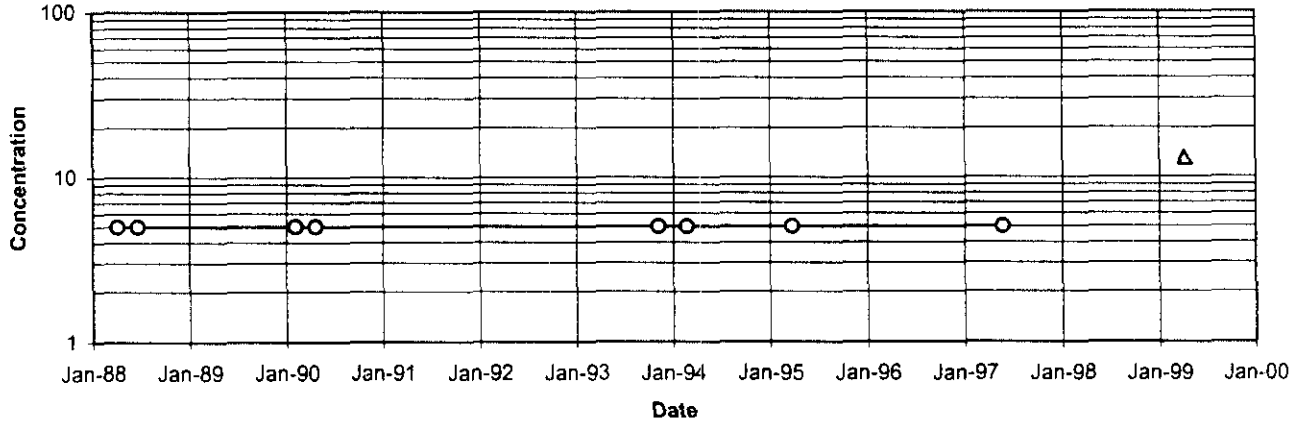
G115



G116



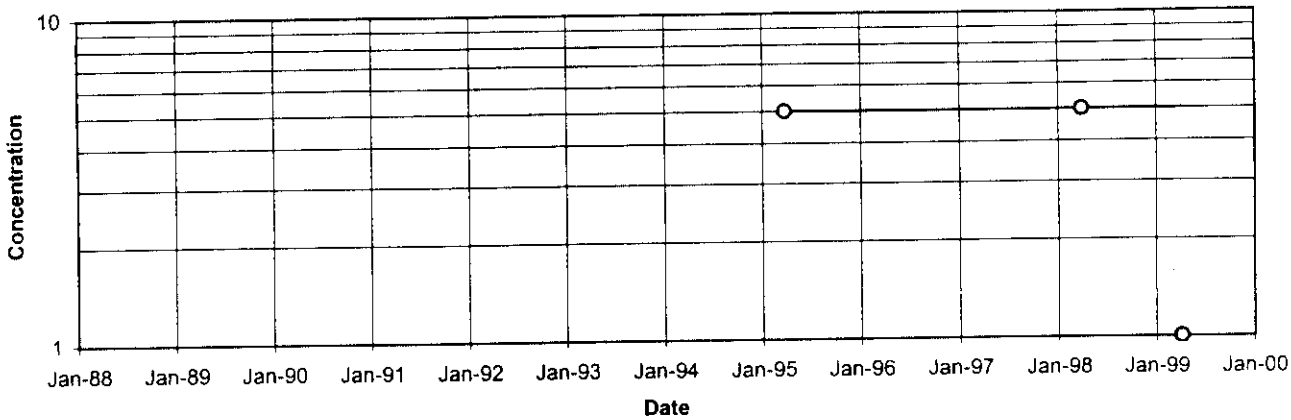
G116A



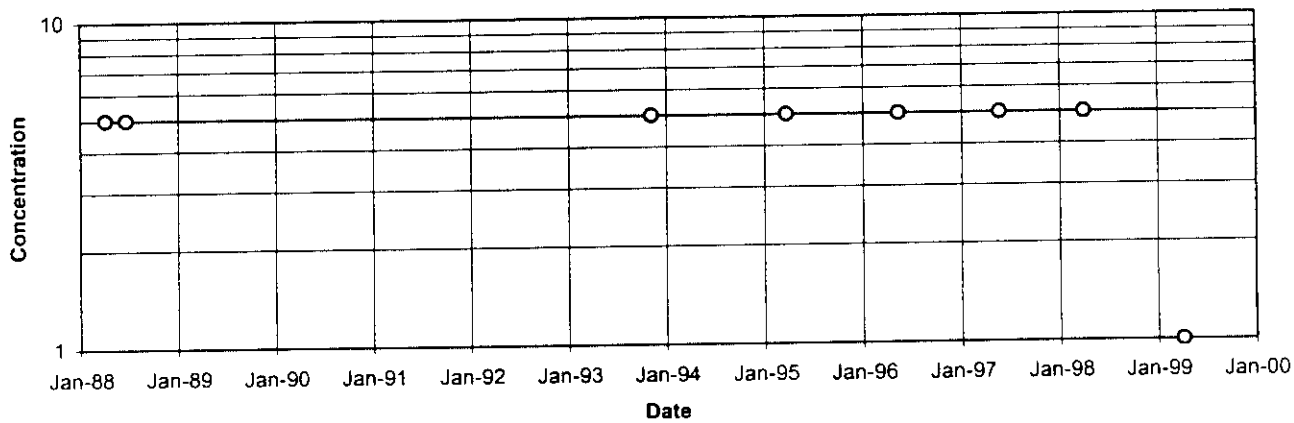
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

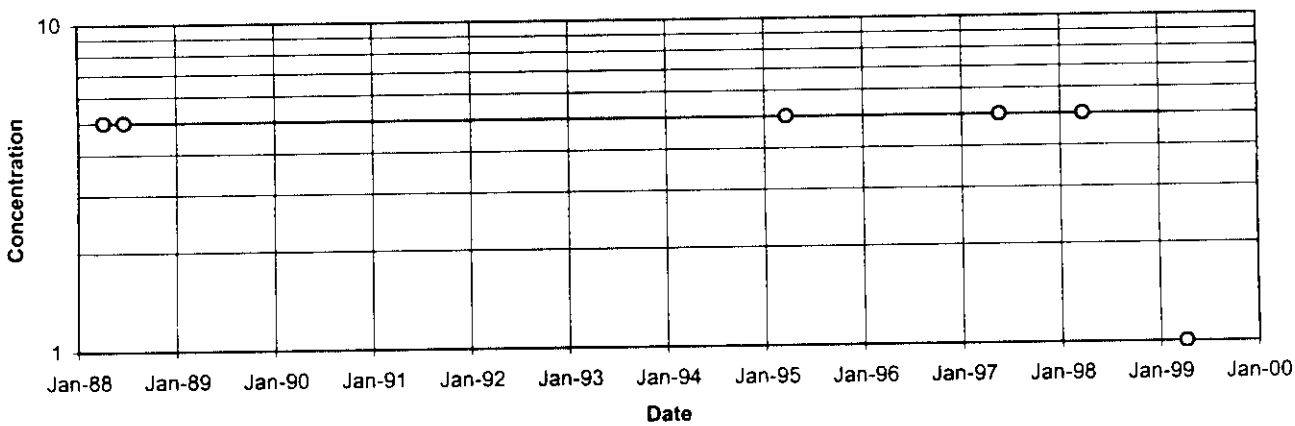
G116D



G117



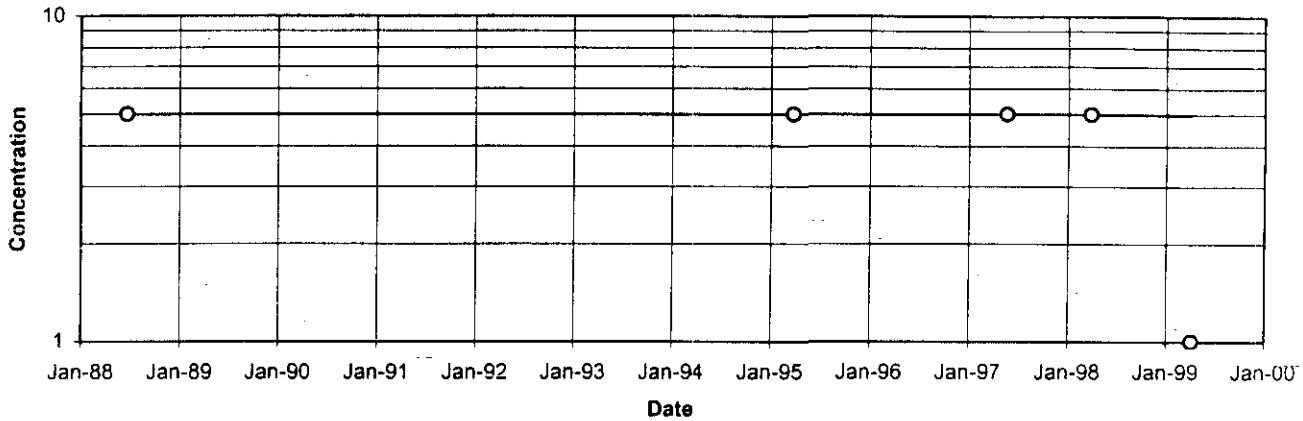
G118A



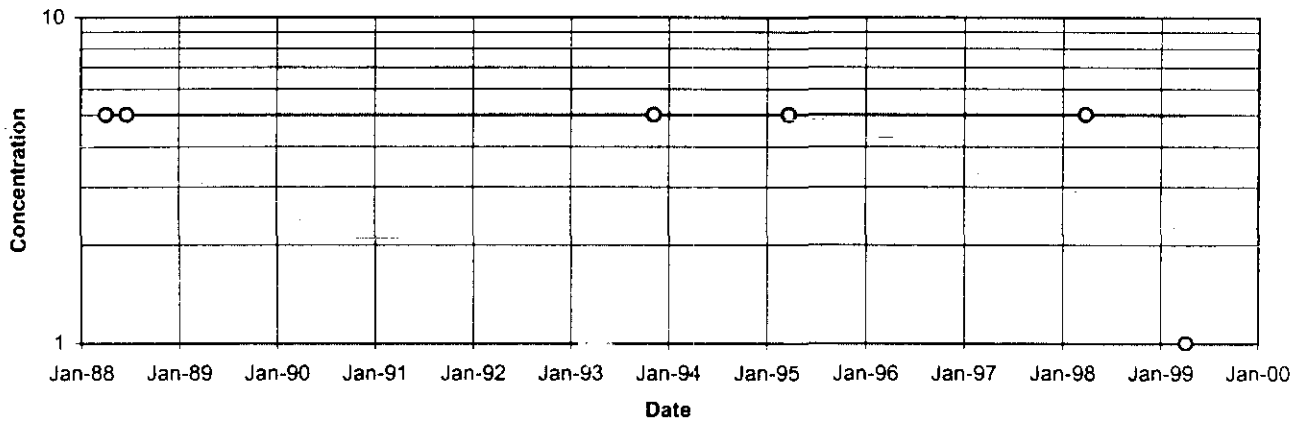
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

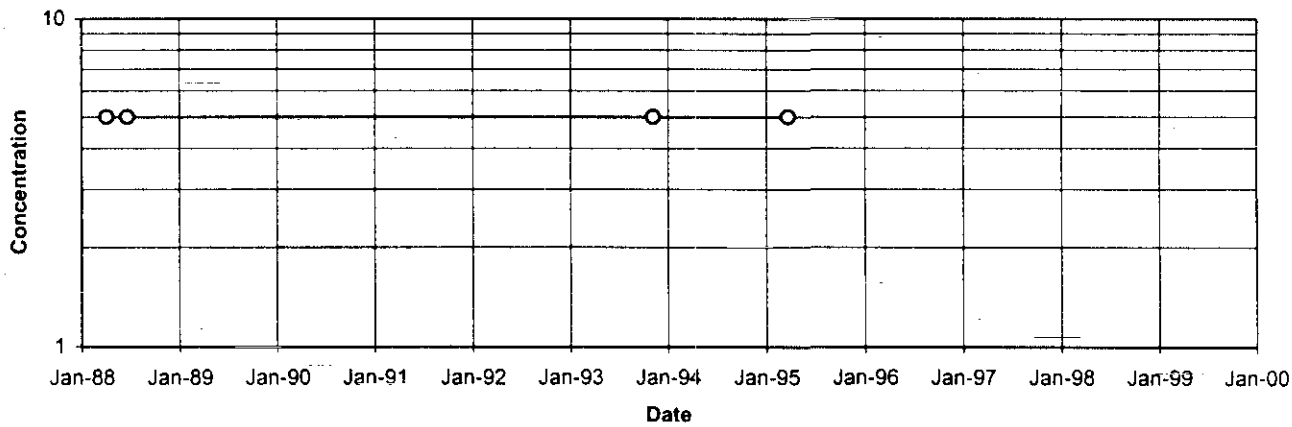
G118R



G119



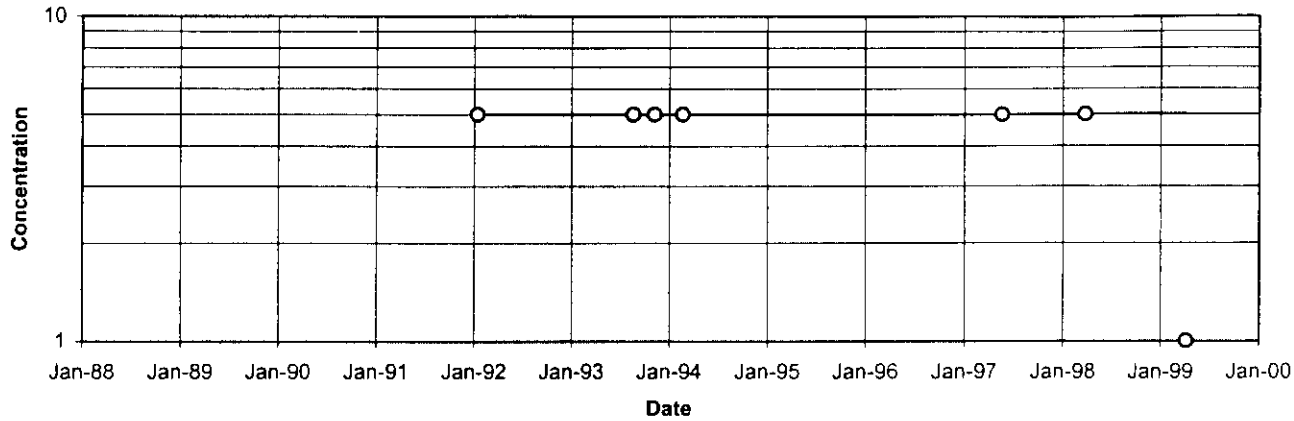
G119A



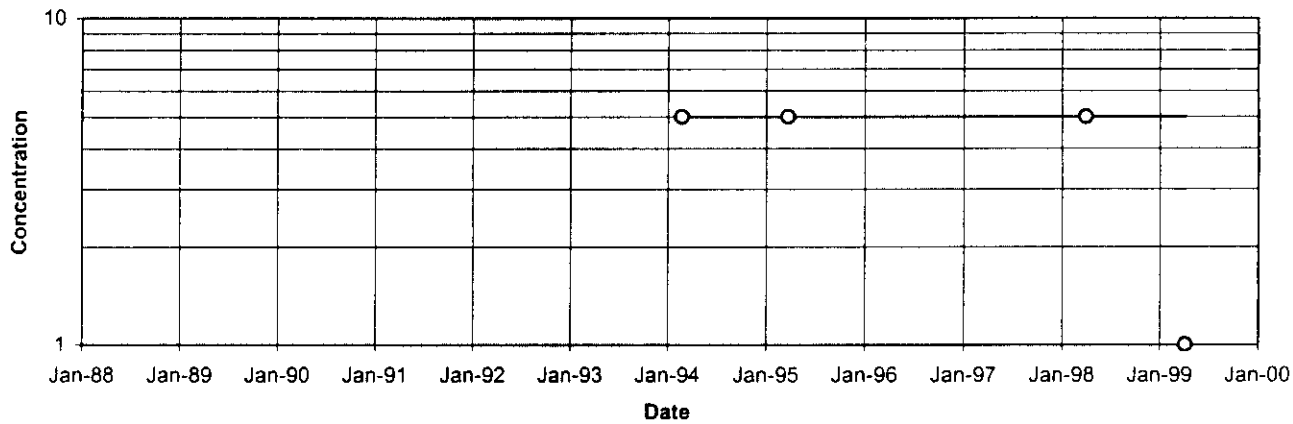
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

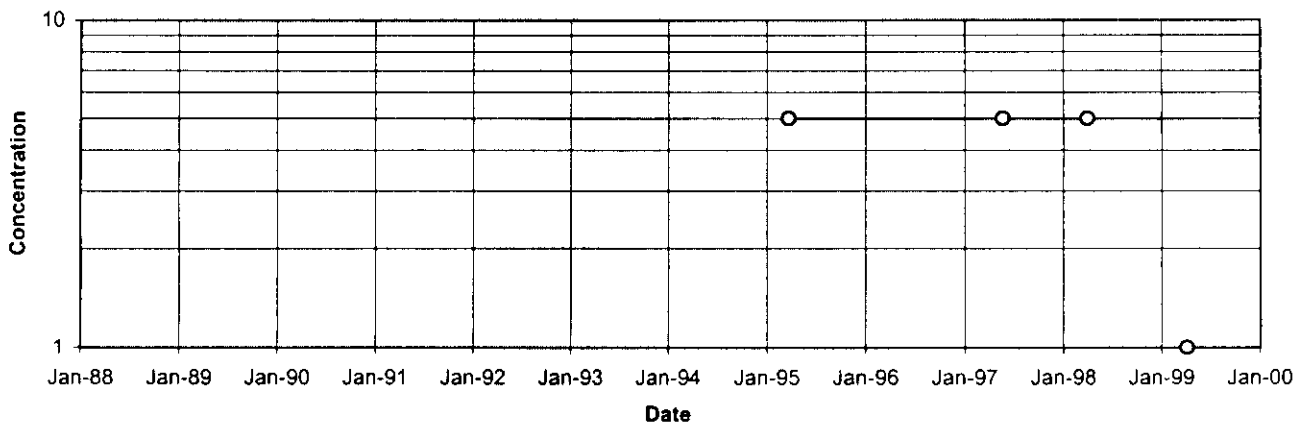
G120B



G130



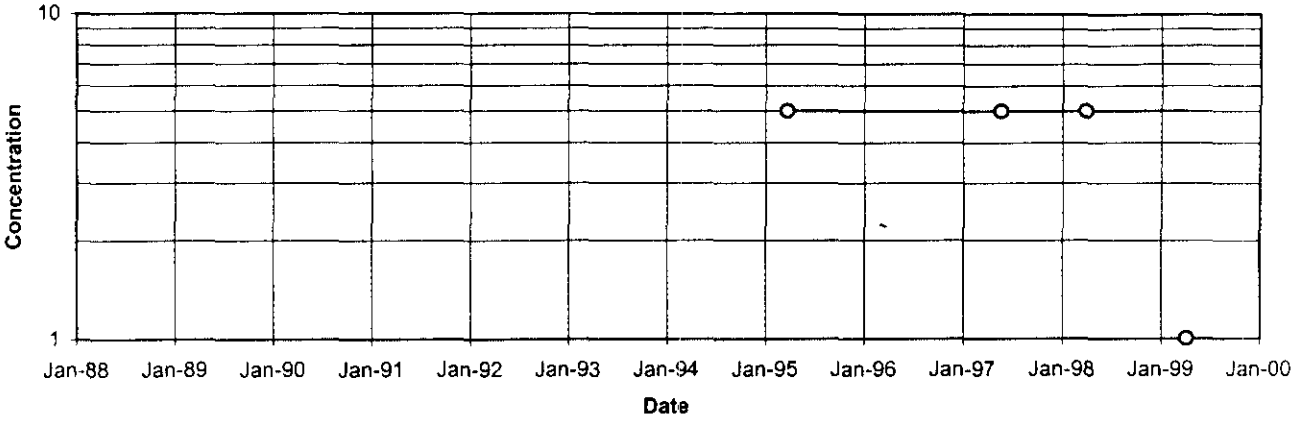
G132



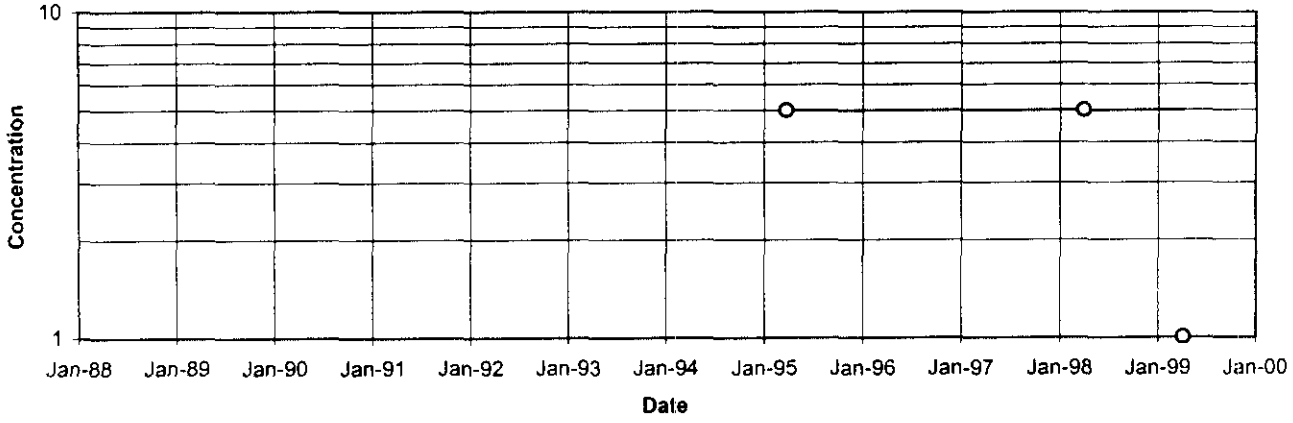
Chlorobenzene (ug/L)

AGQS Δ Concentration O NonDetect

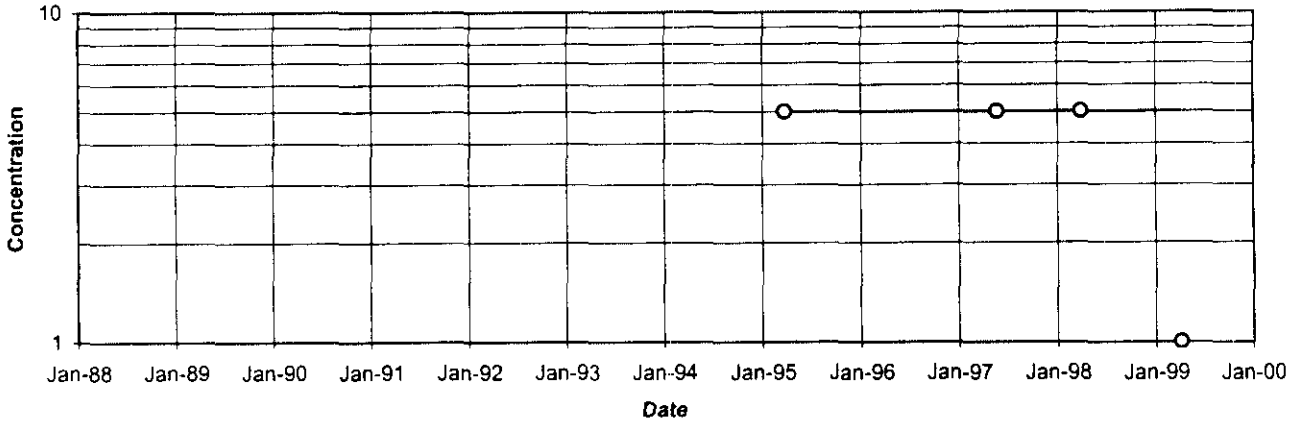
G33D



G33S



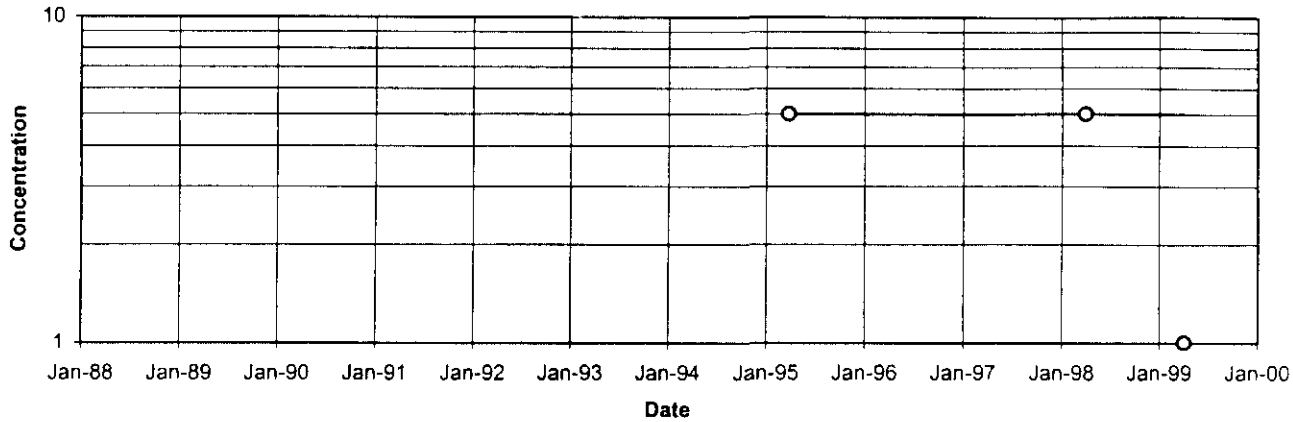
G34D



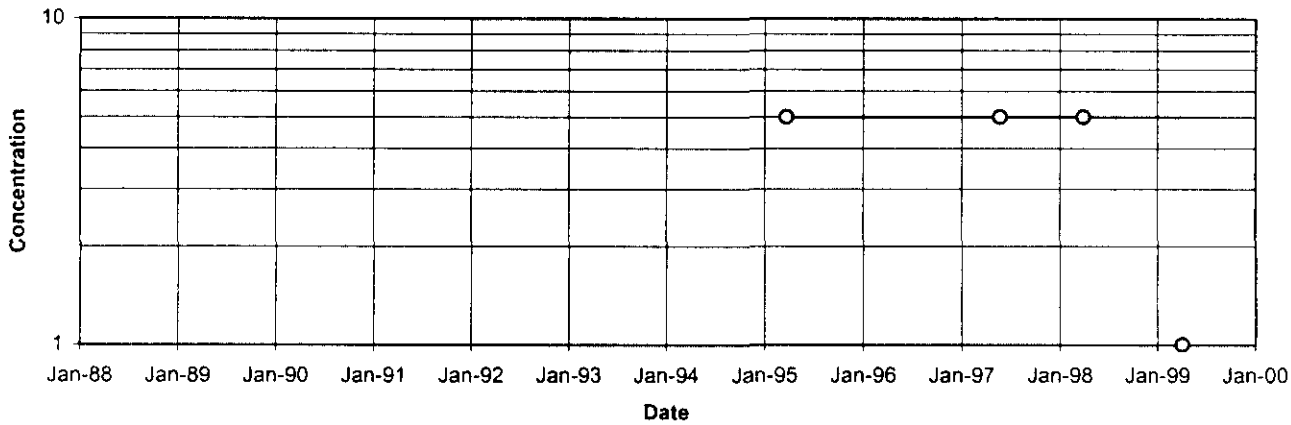
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

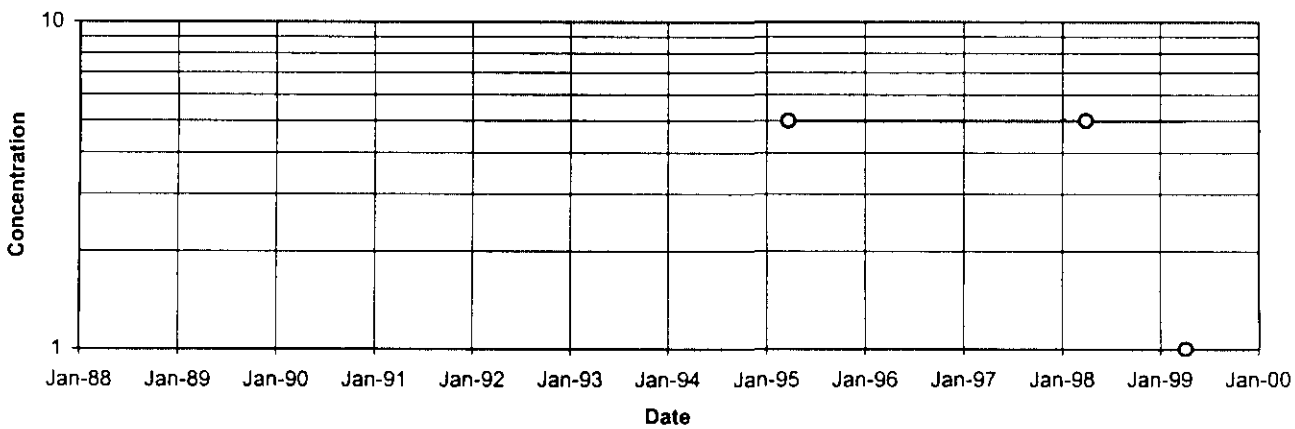
G34S



G35D



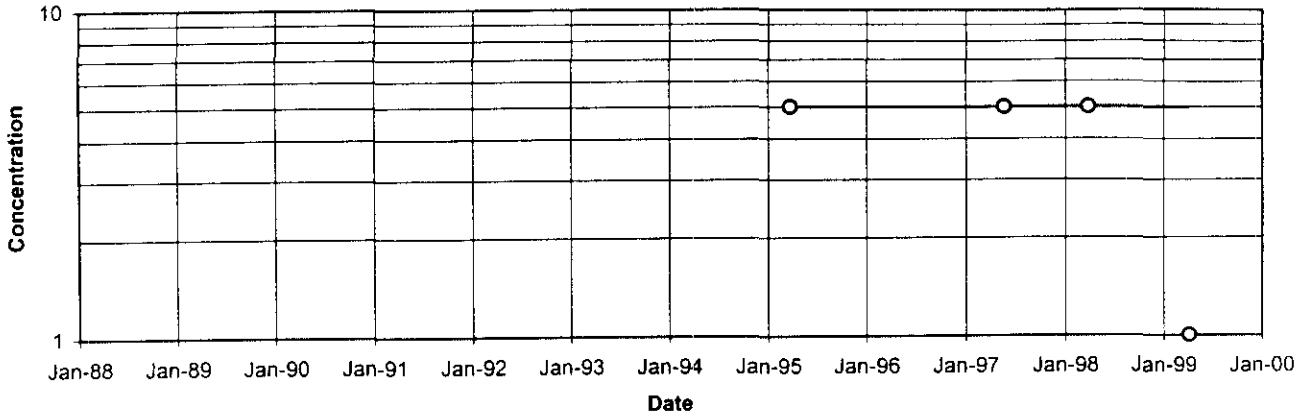
G35S



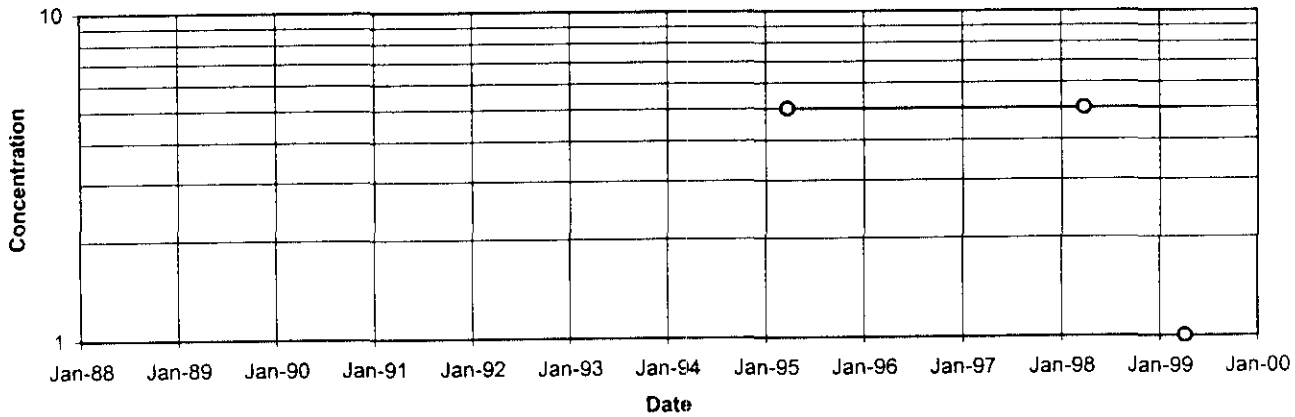
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

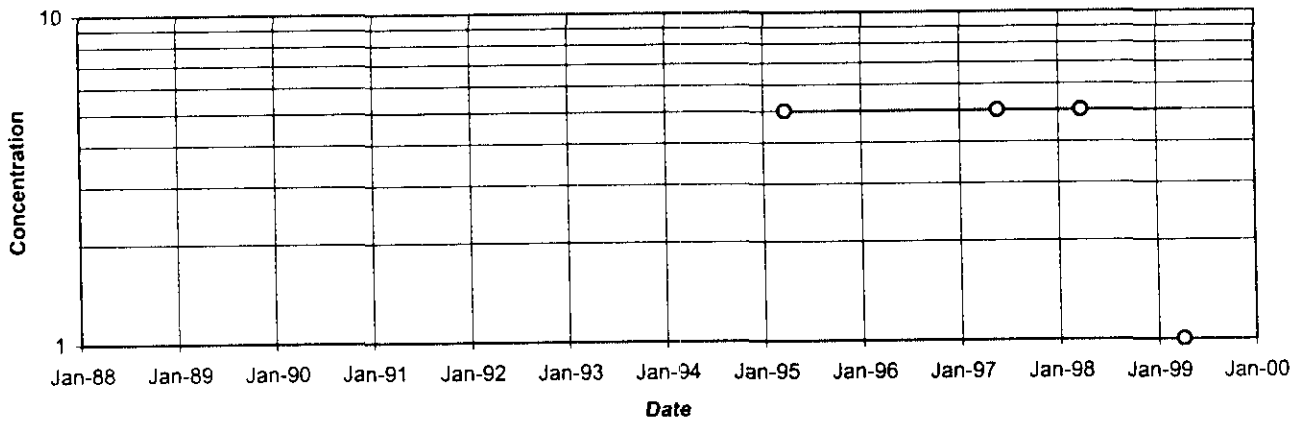
G36



G37D



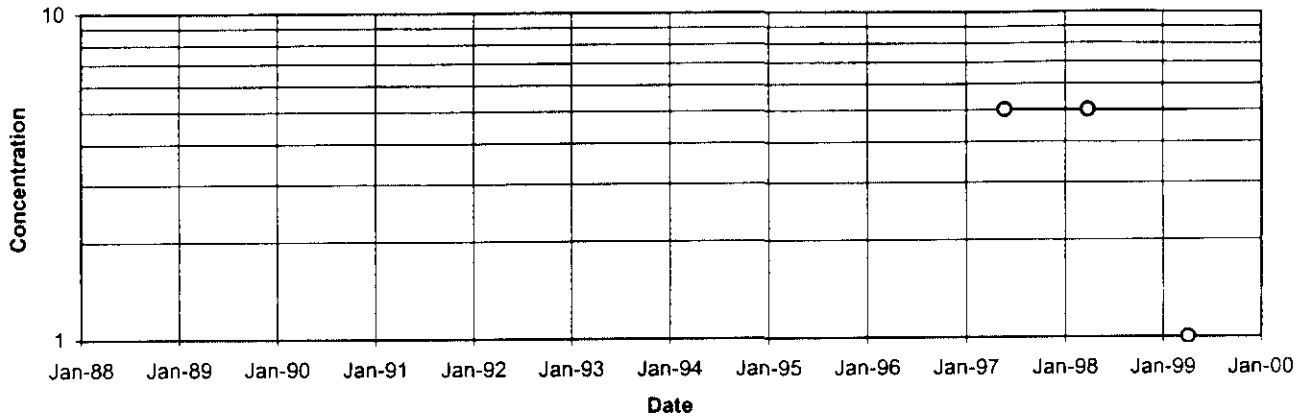
G37S



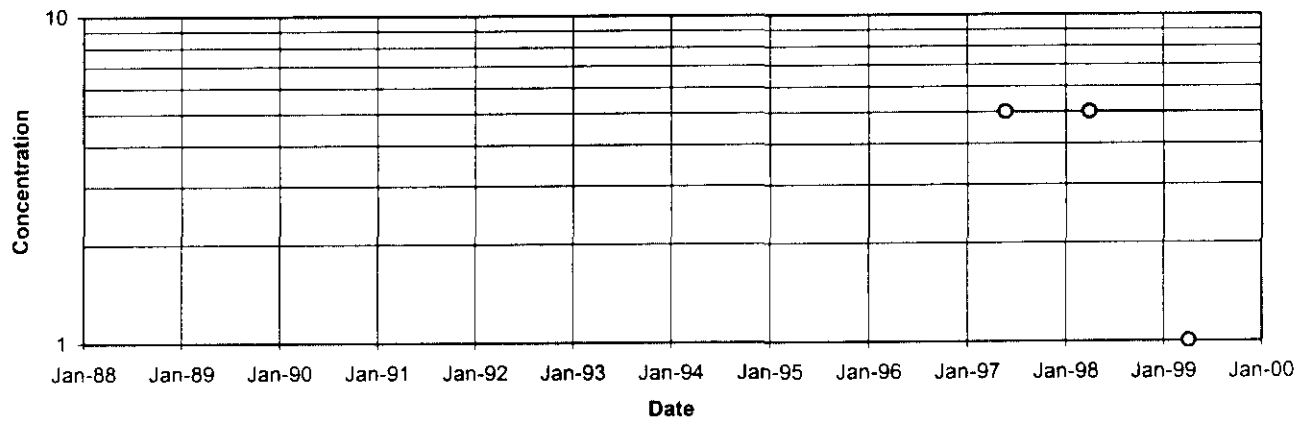
Chlorobenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

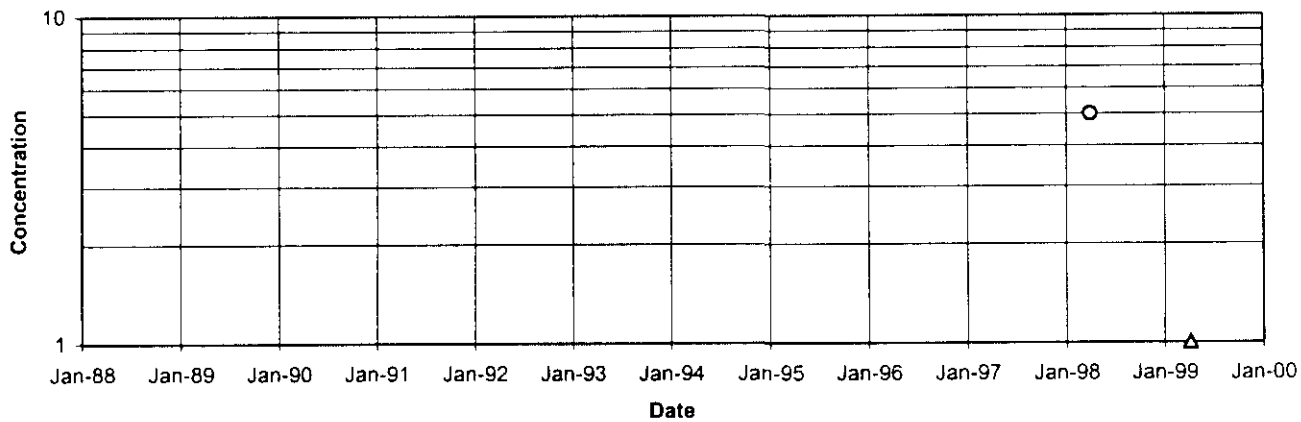
G38



G39



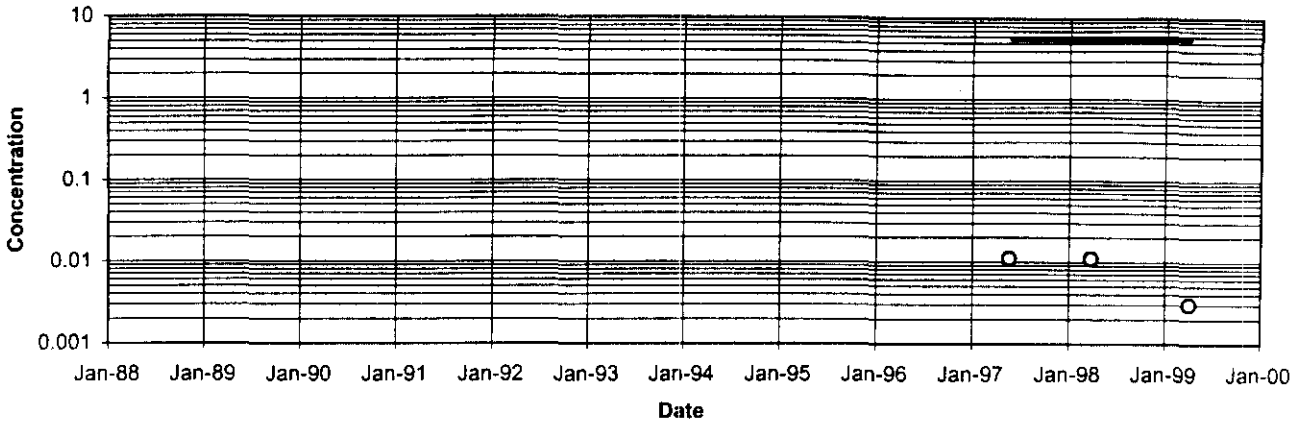
G40



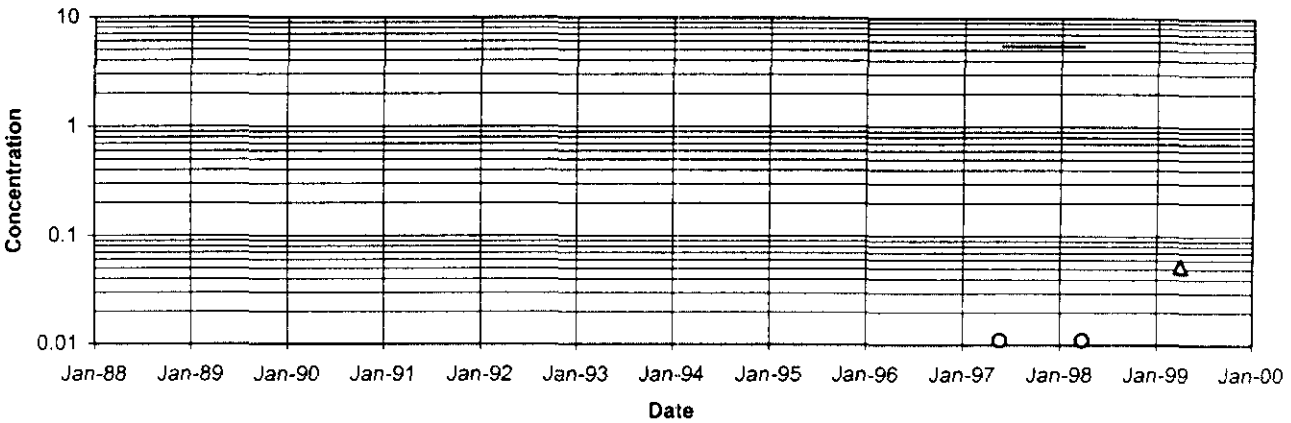
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

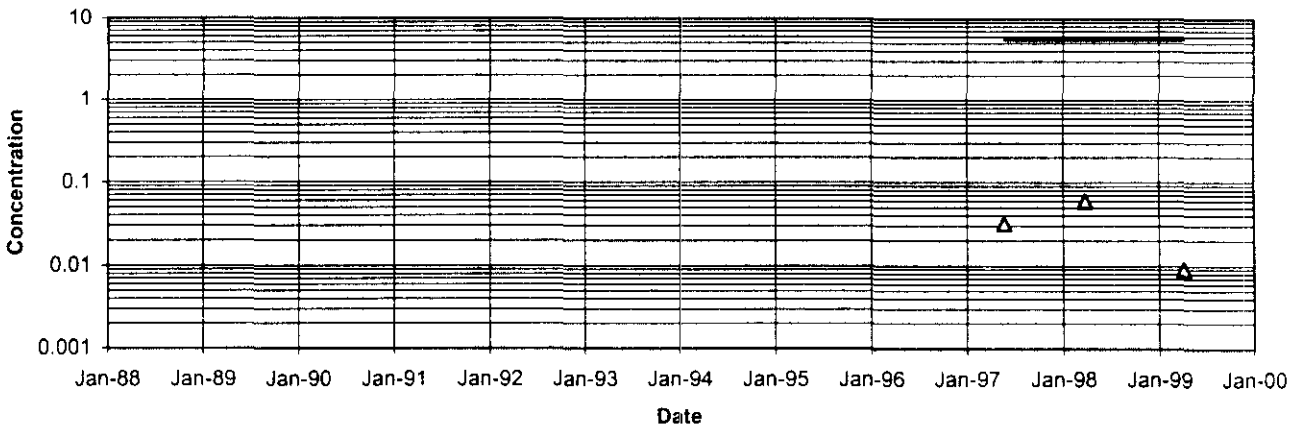
G113



G113A



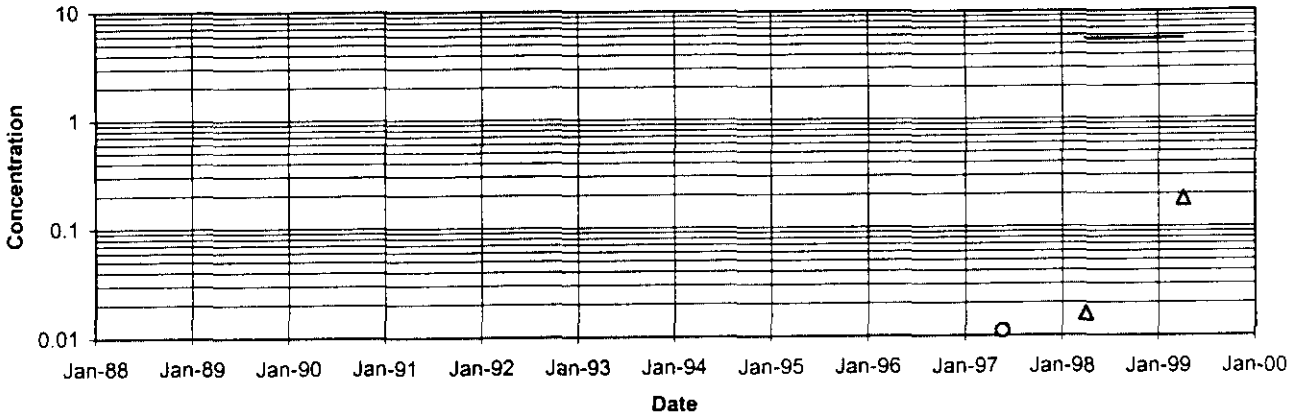
G114



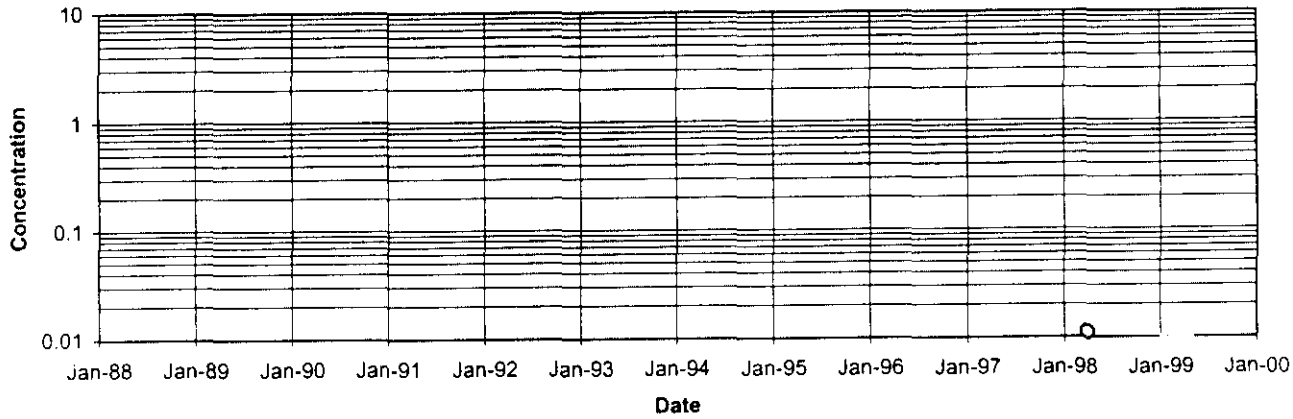
Chromium (mg/L)

AGQS Δ Concentration ○ NonDetect

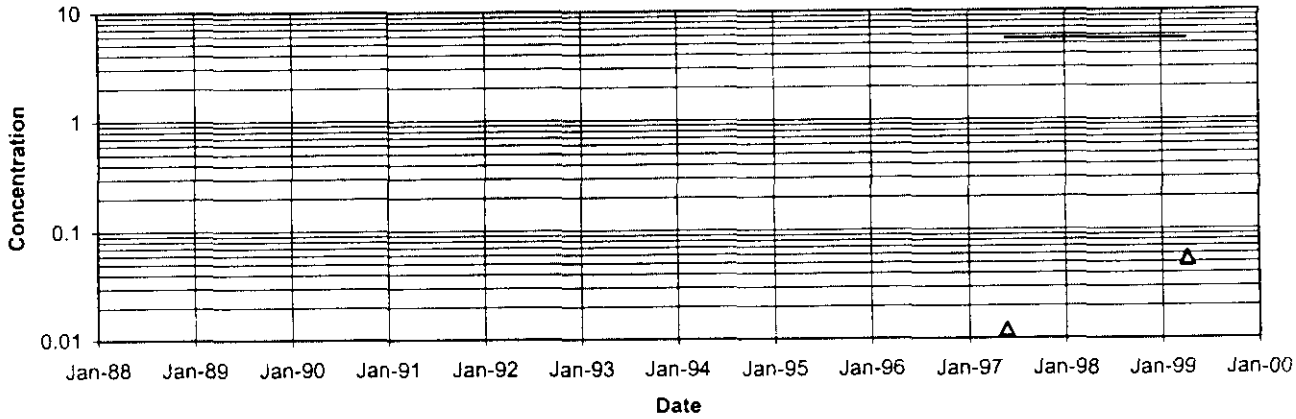
G115



G116



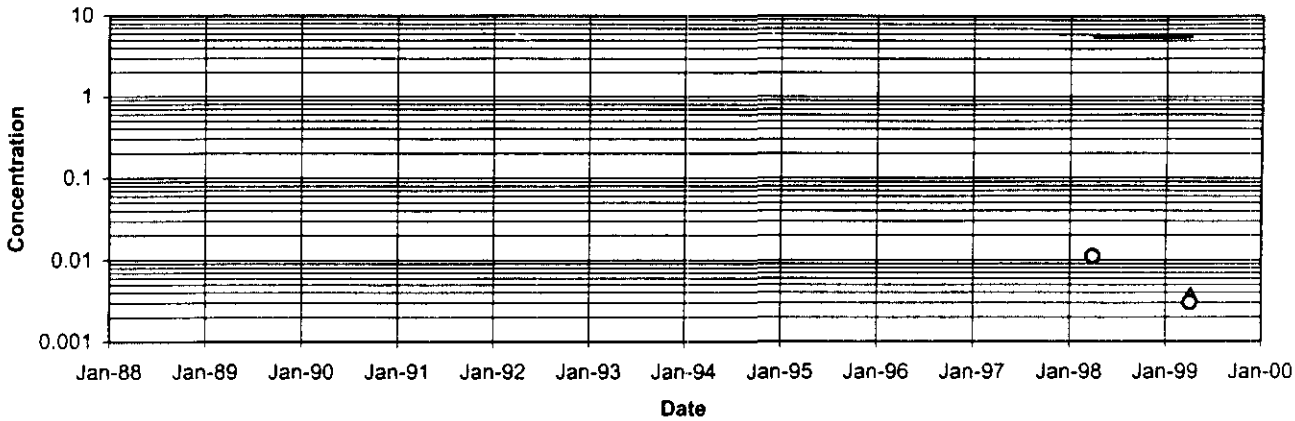
G116A



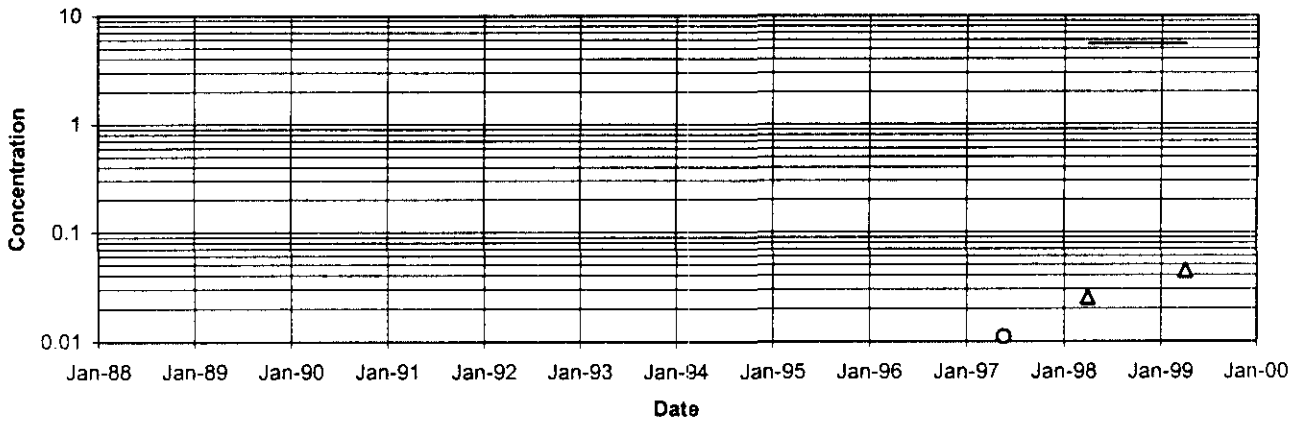
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

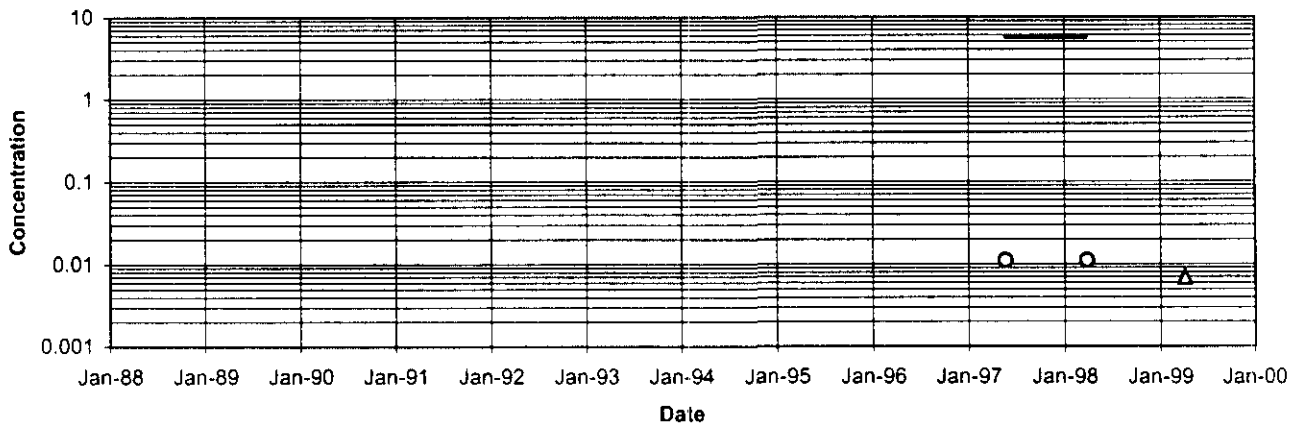
G116D



G117



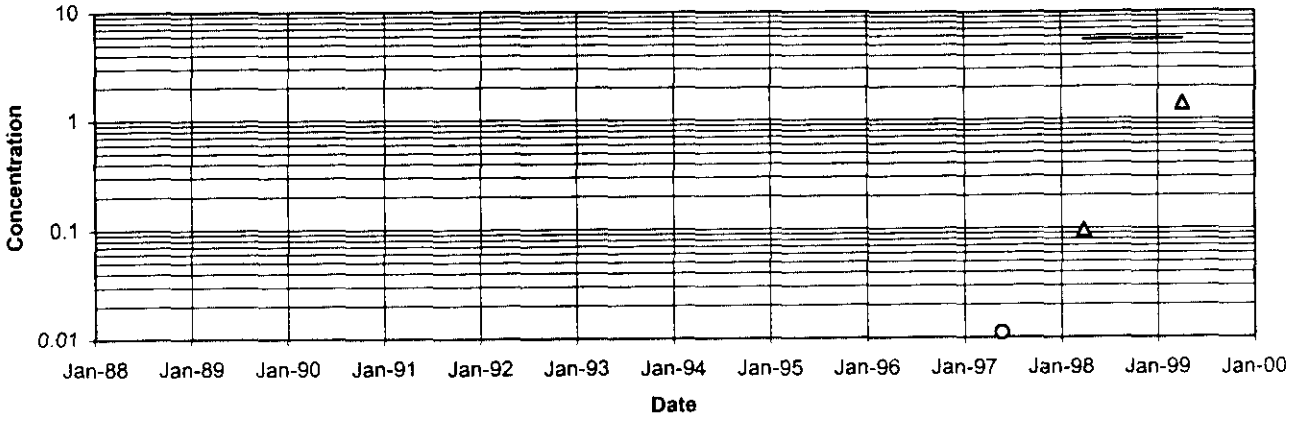
G118A



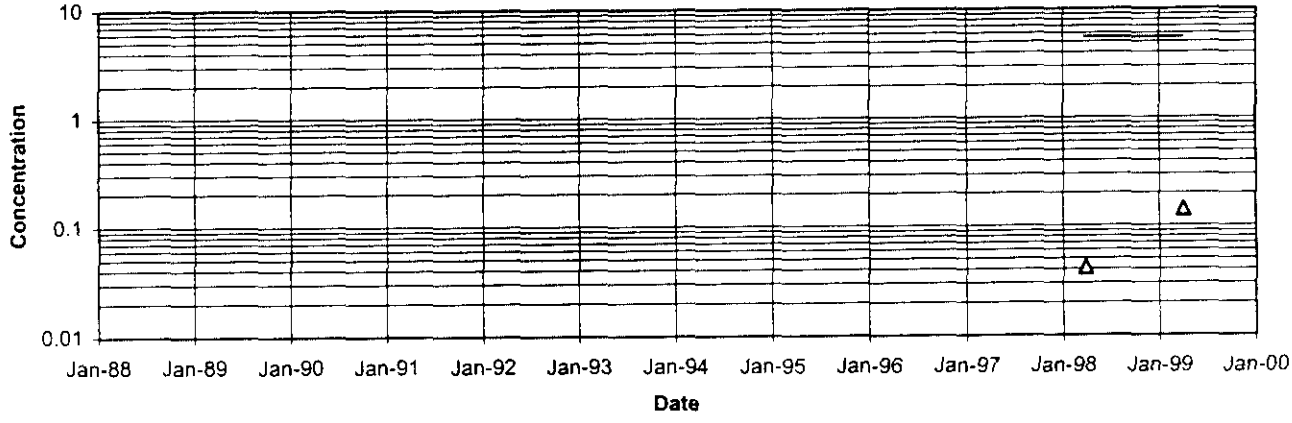
Chromium (mg/L)

AGQS Δ Concentration ○ NonDetect

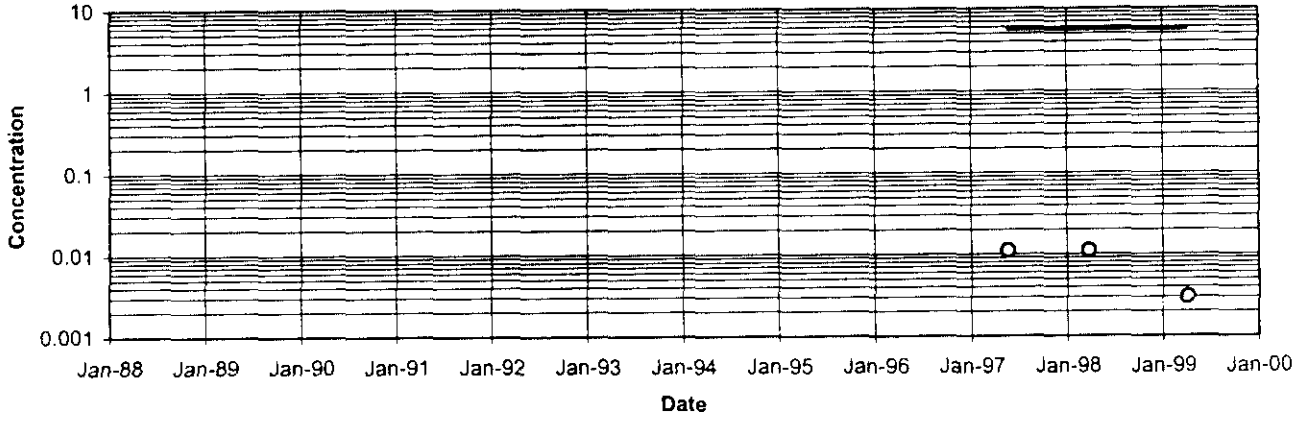
G118R



G119



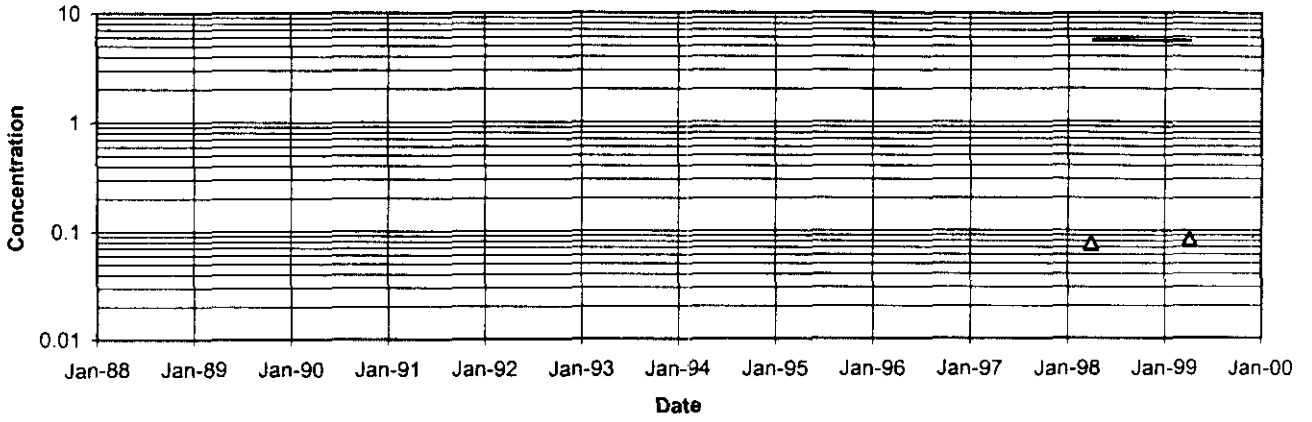
G120B



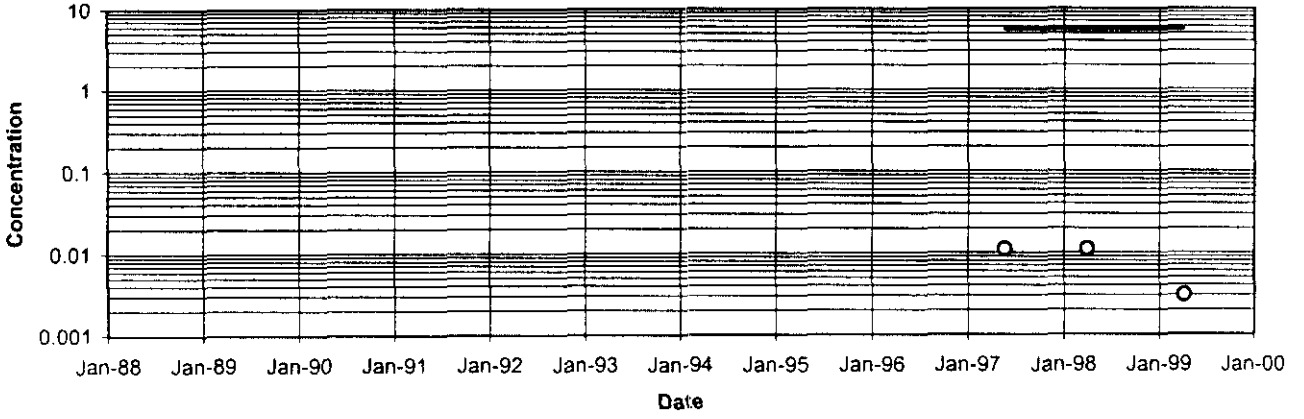
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

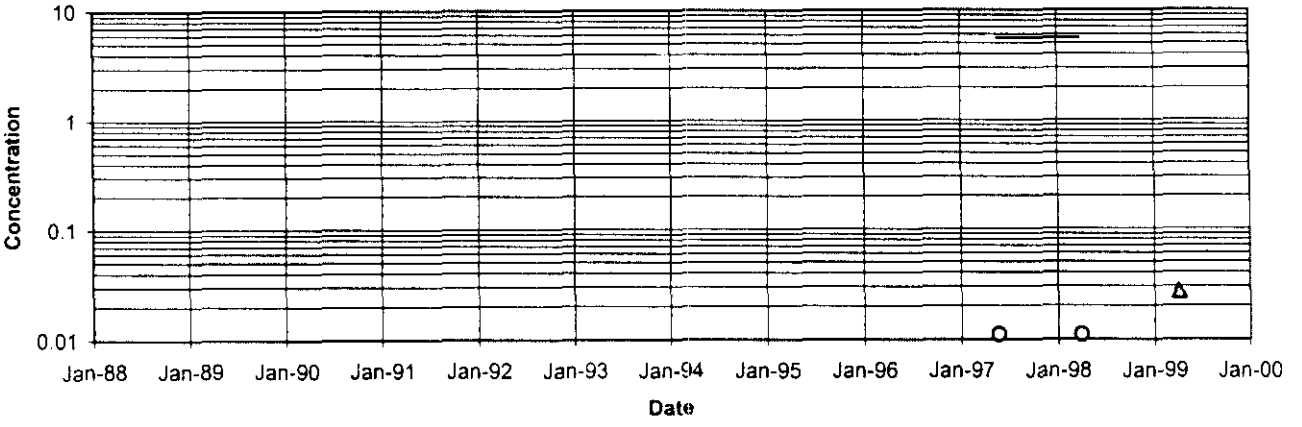
G130



G132



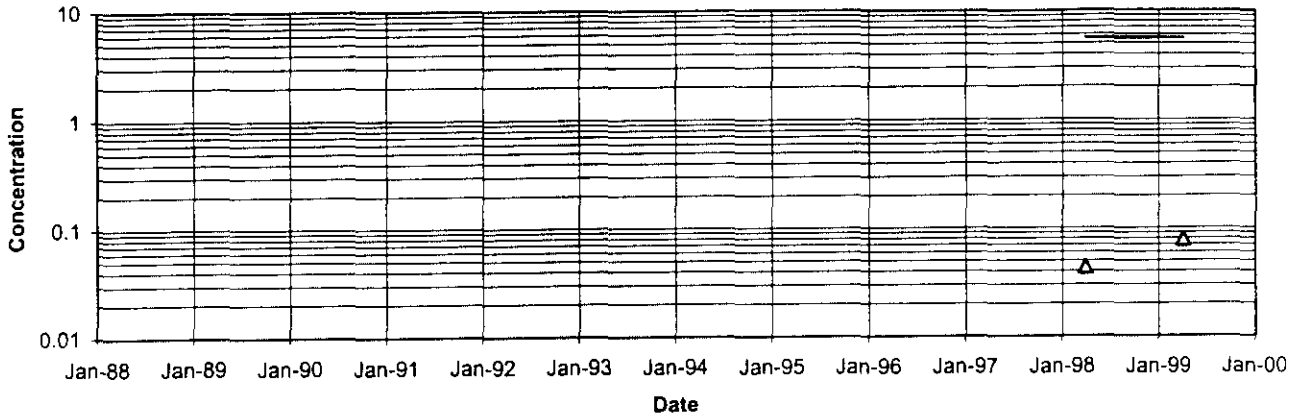
G33D



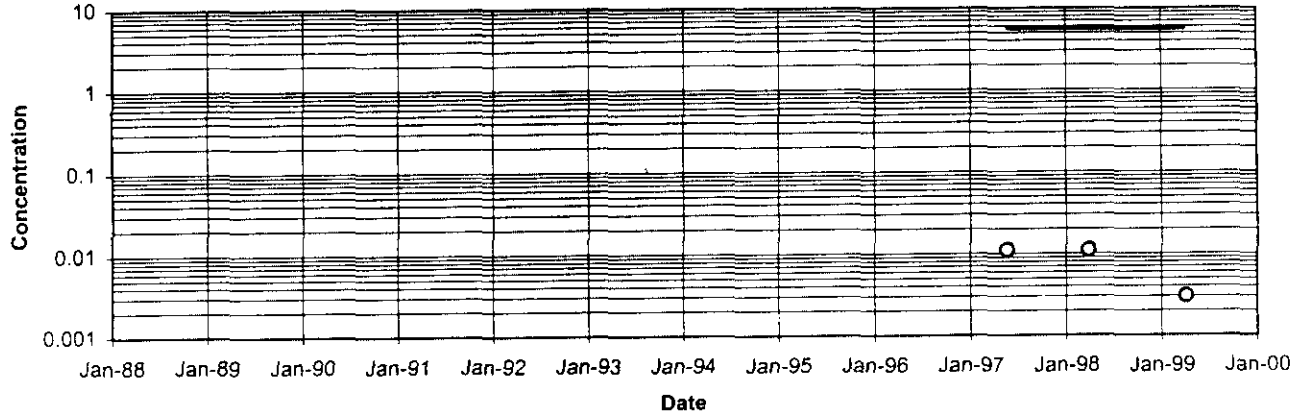
Chromium (mg/L)

AGQS Δ Concentration ○ NonDetect

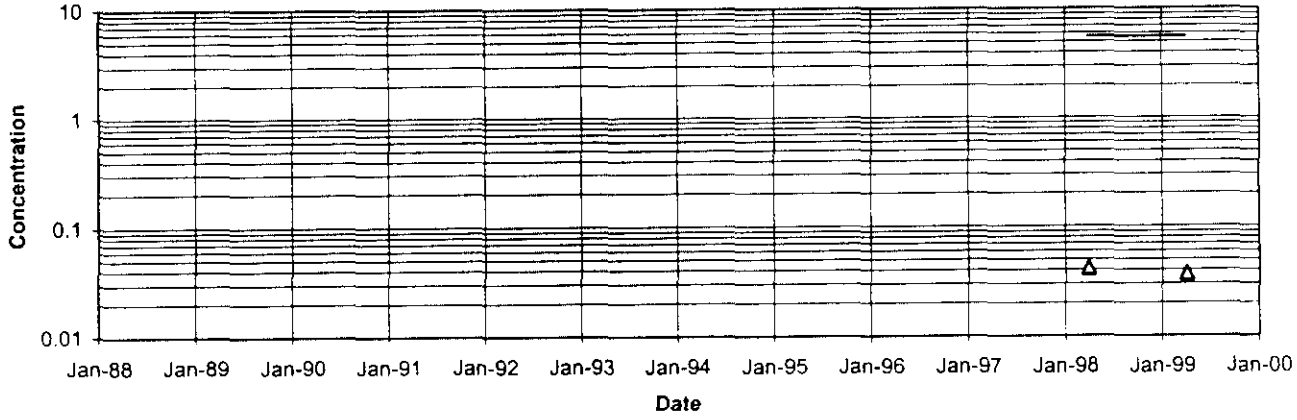
G33S



G34D



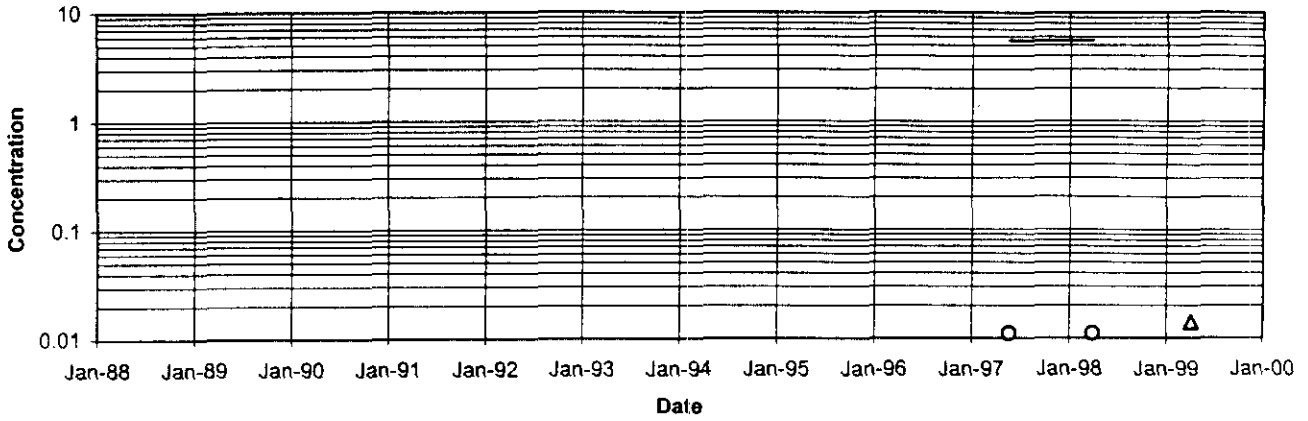
G34S



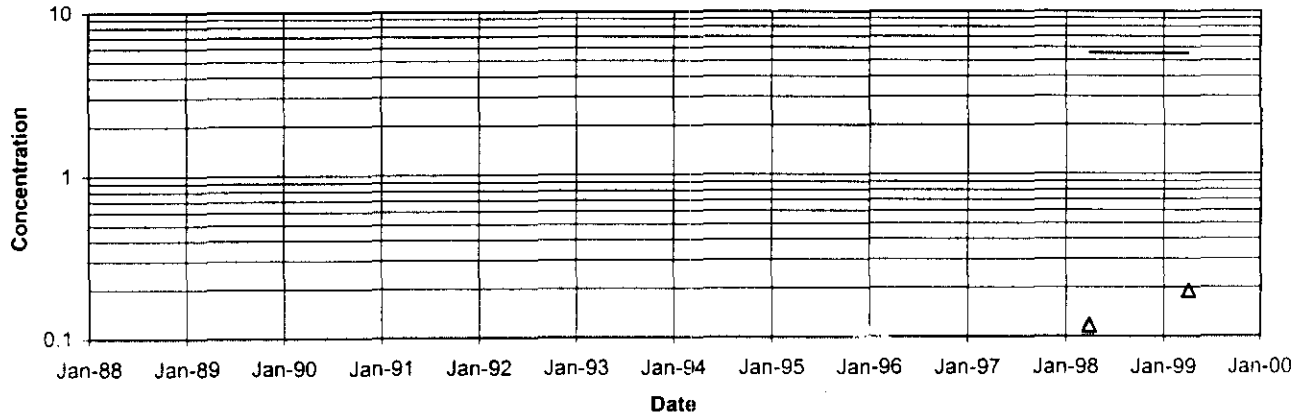
Chromium (mg/L)

AGQS Δ Concentration ○ NonDetect

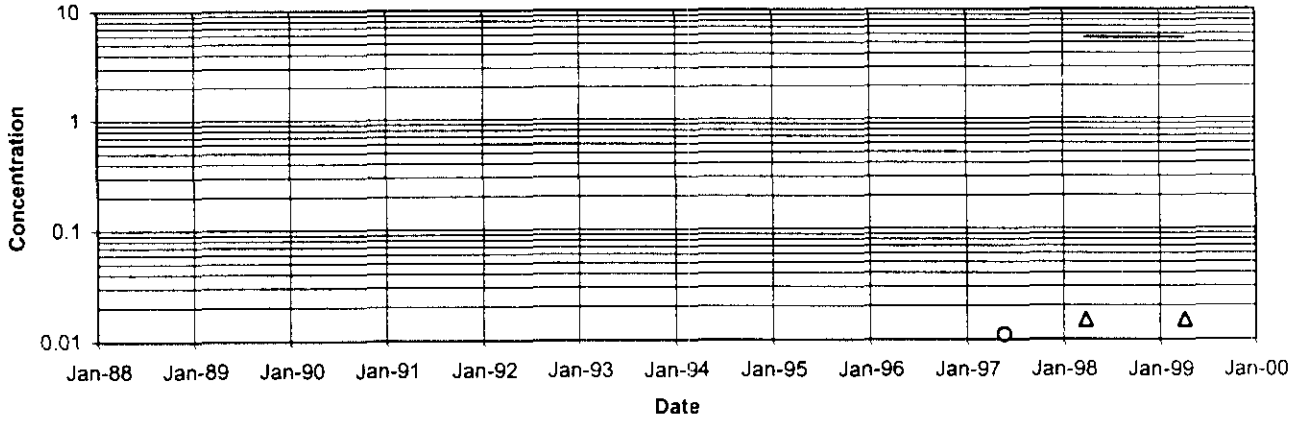
G35D



G35S



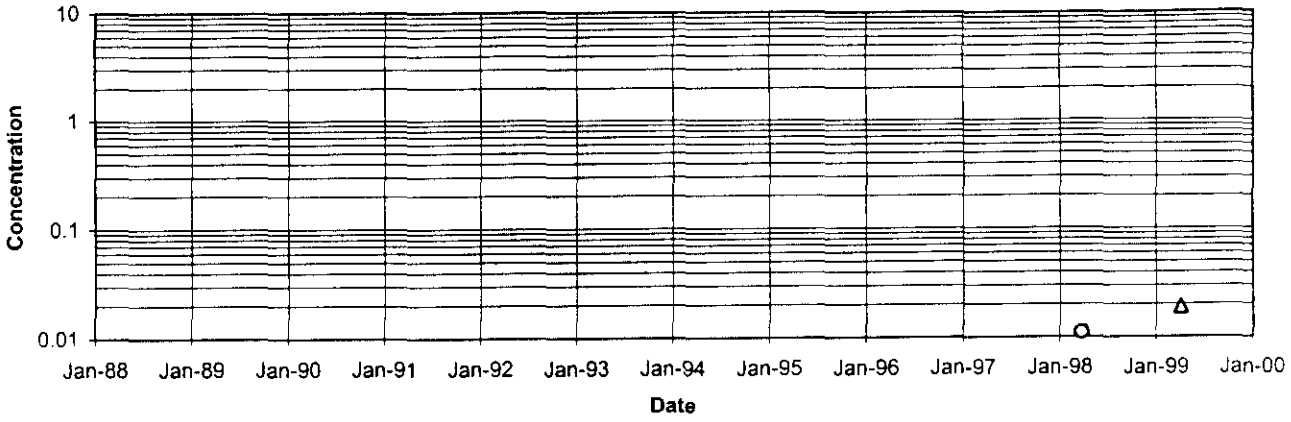
G36



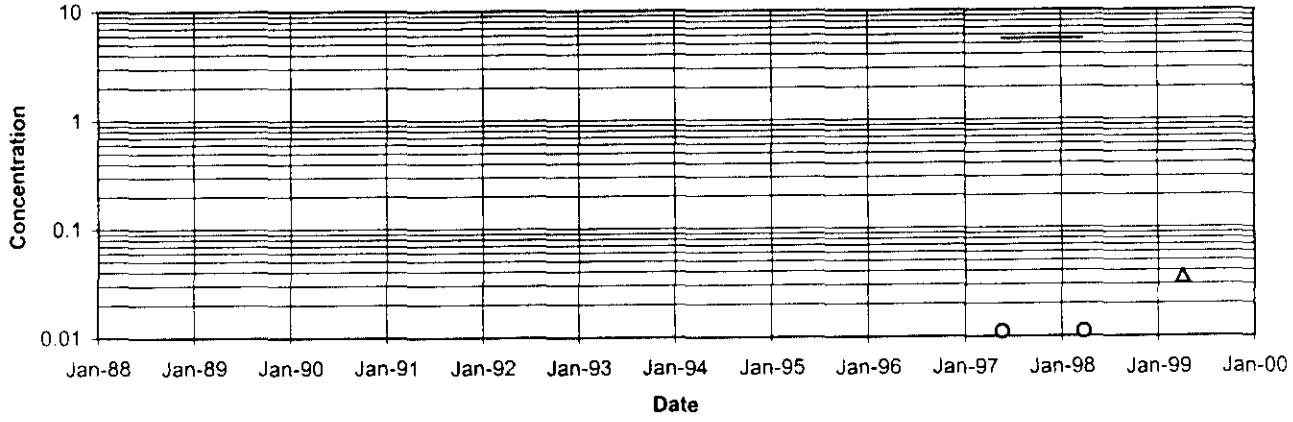
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

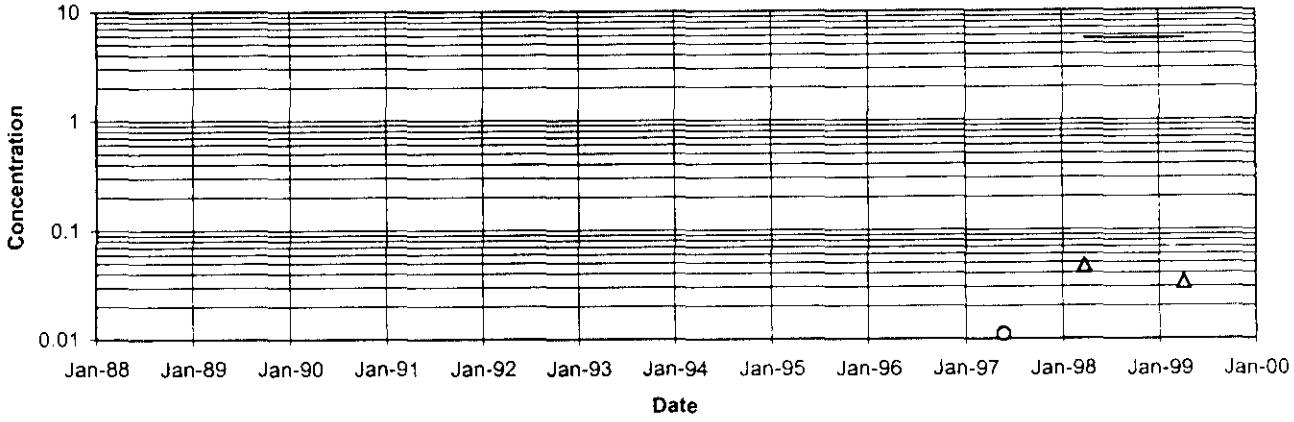
G37D



G37S



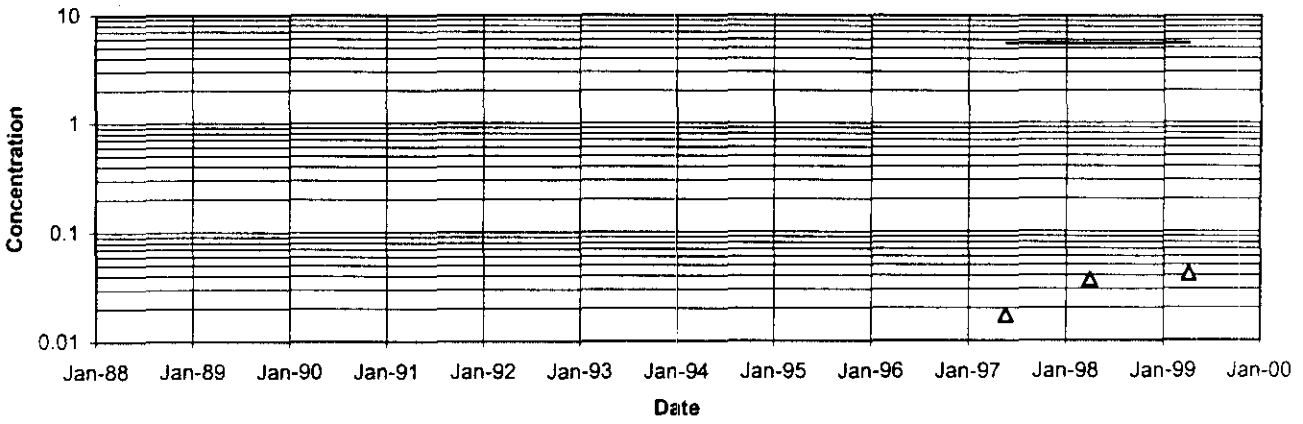
G38



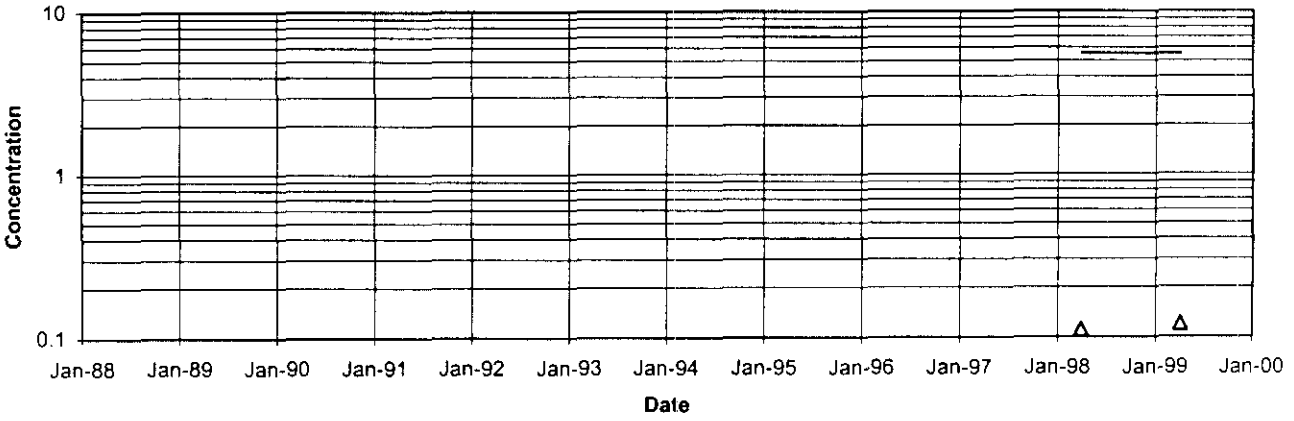
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

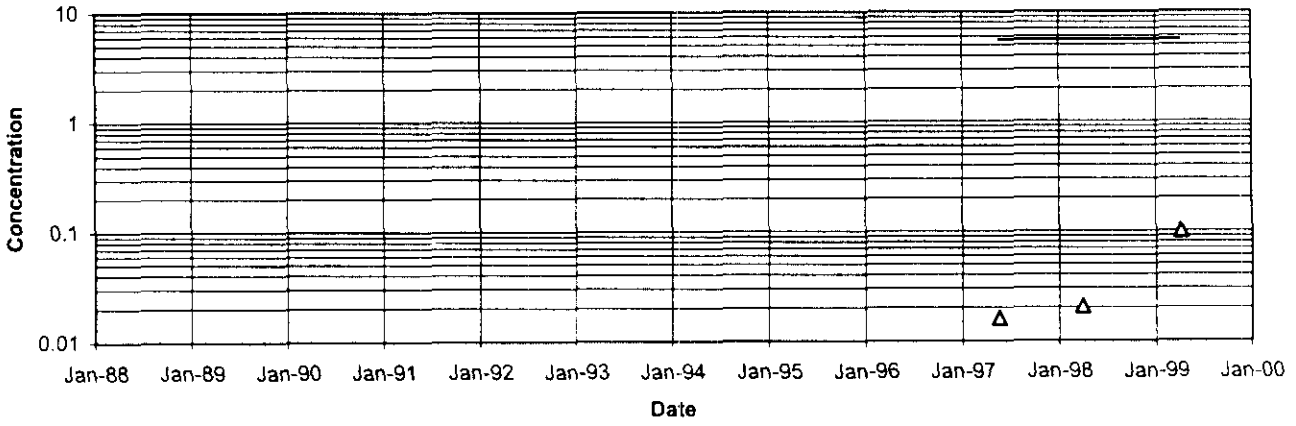
G39



G40



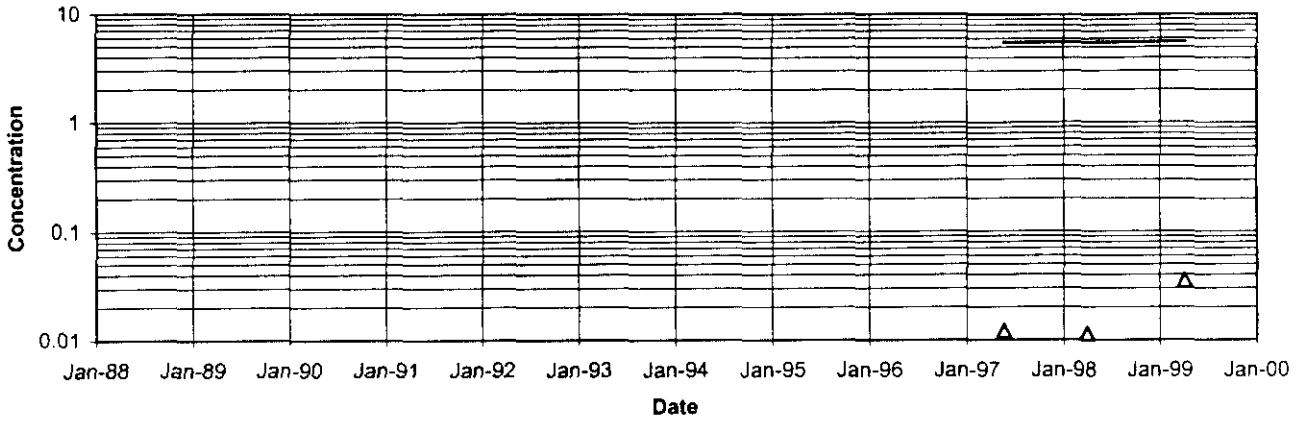
MW106



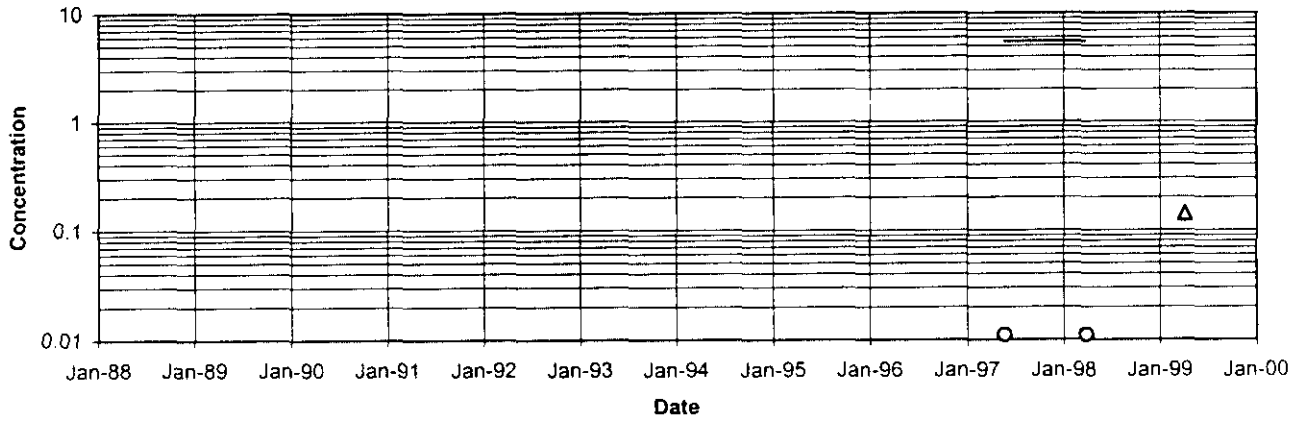
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

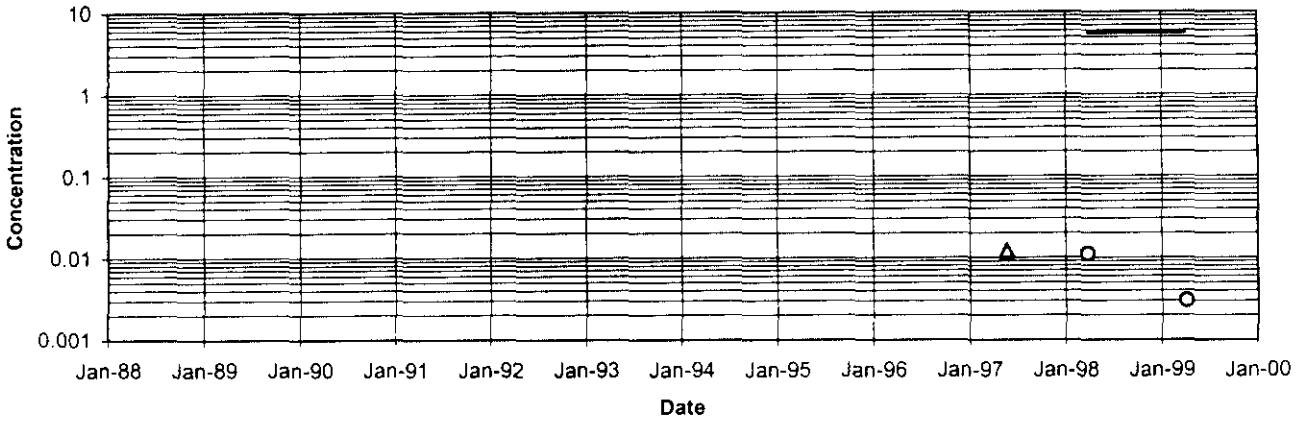
P1



P3R



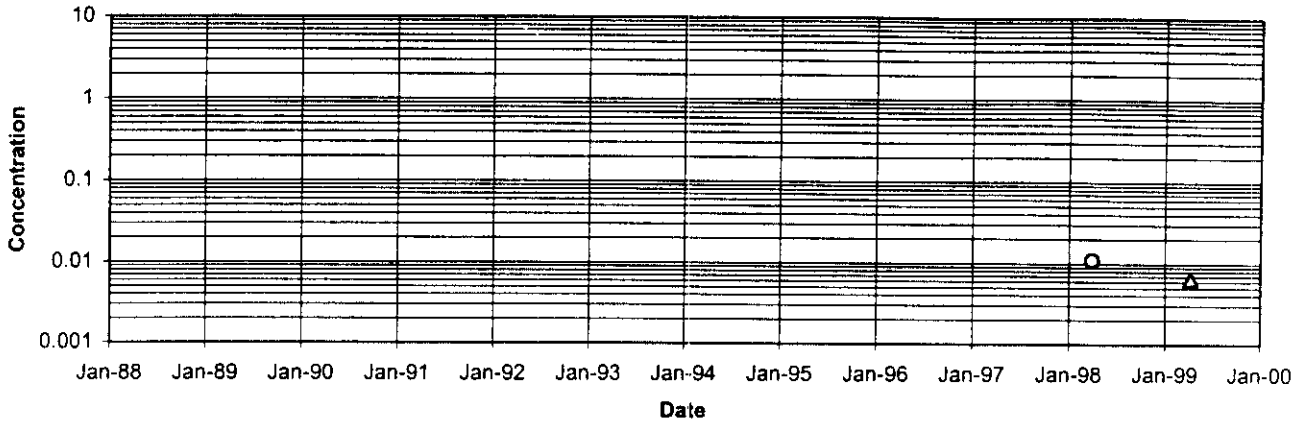
P4R



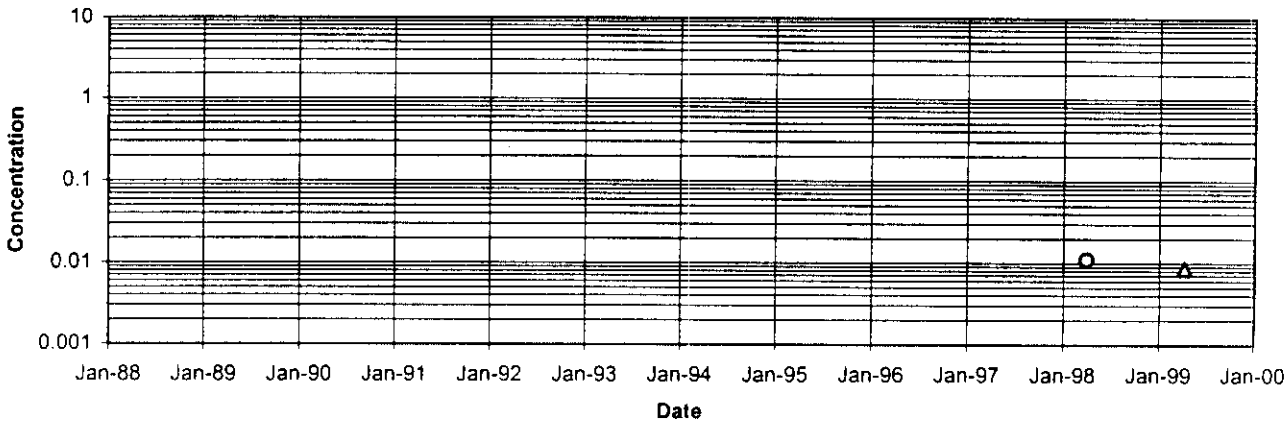
Chromium (mg/L)

AGQS Δ Concentration O NonDetect

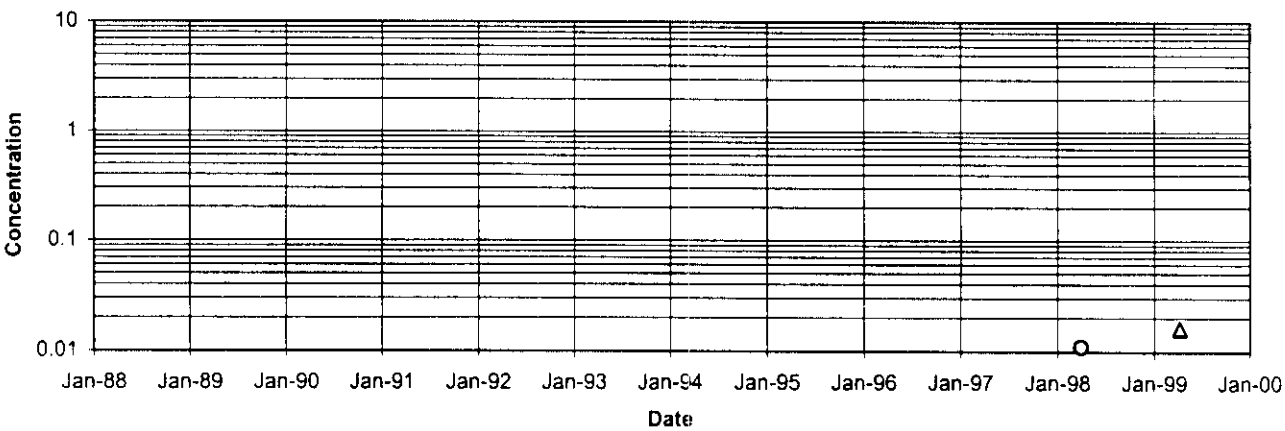
SG1



SG3



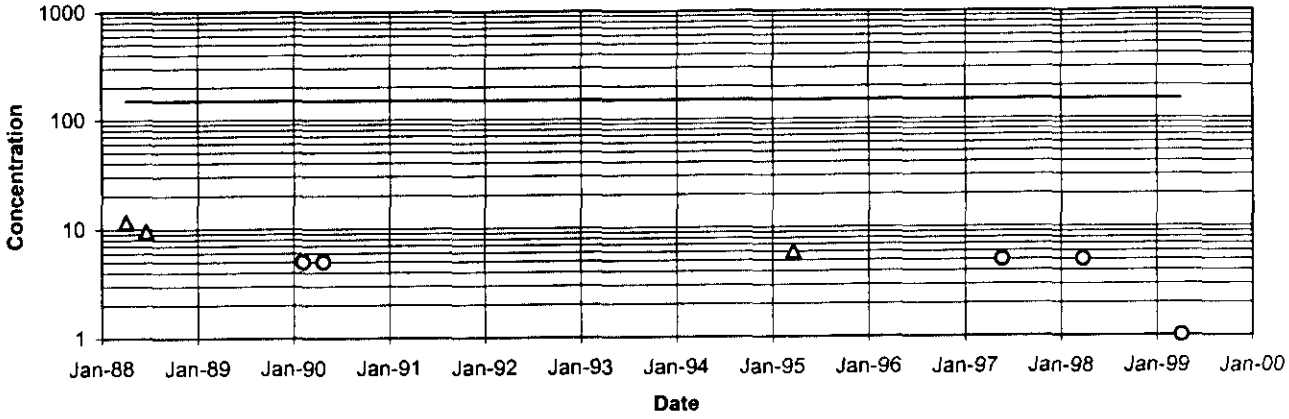
SG4



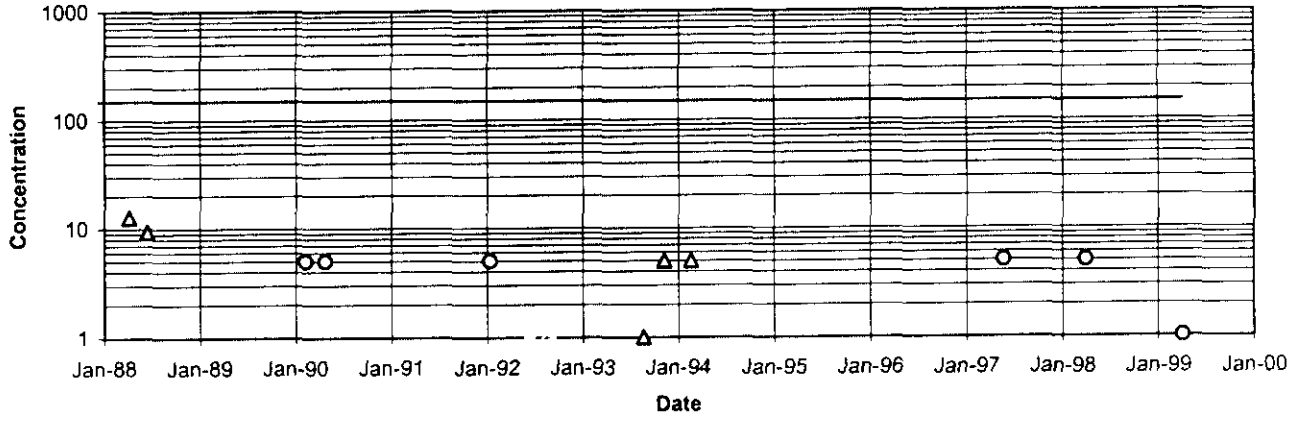
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

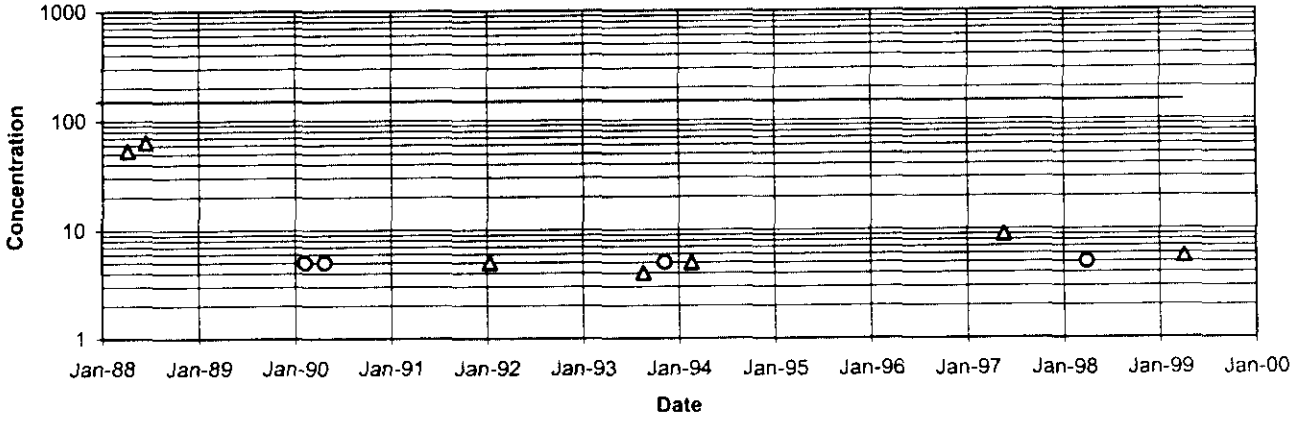
B15R



G109



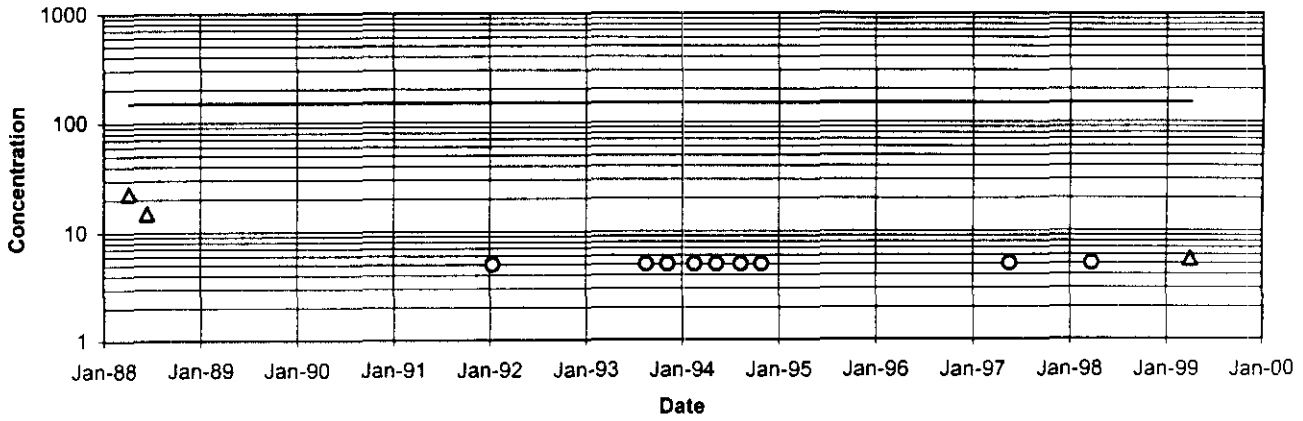
G109A



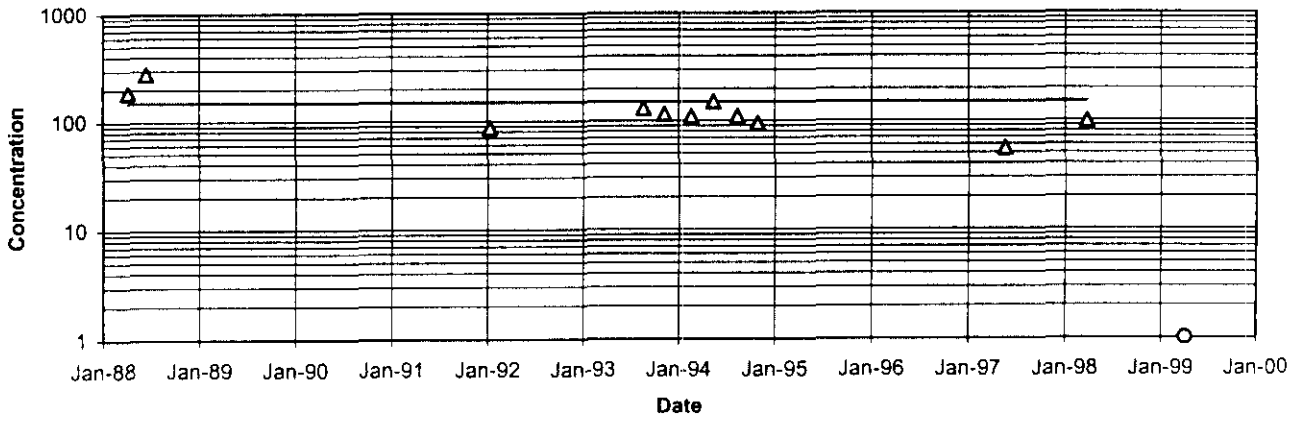
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

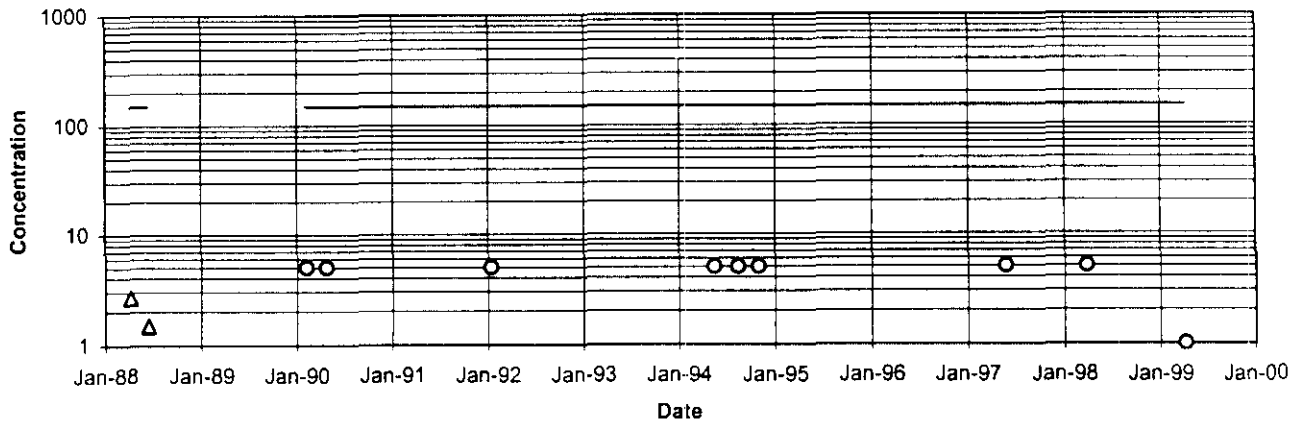
G113



G113A



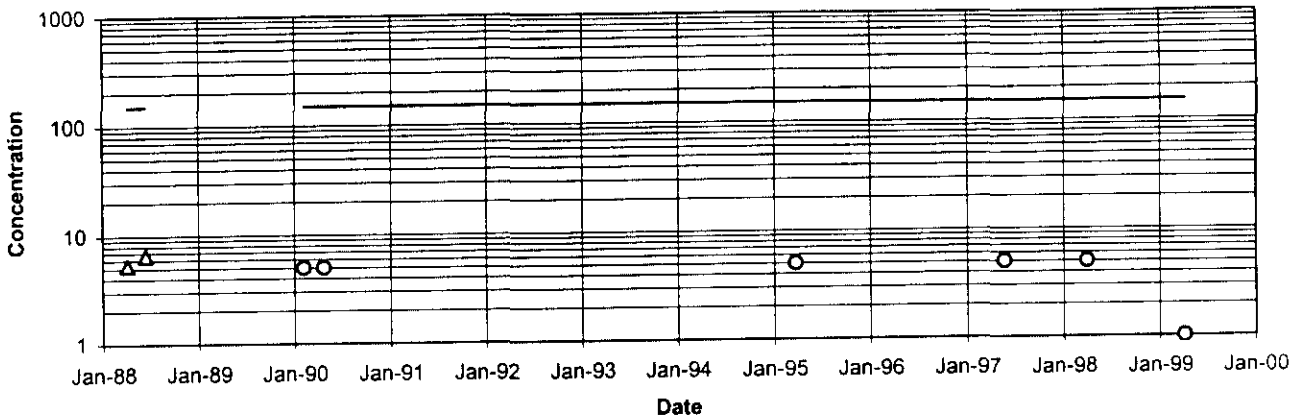
G114



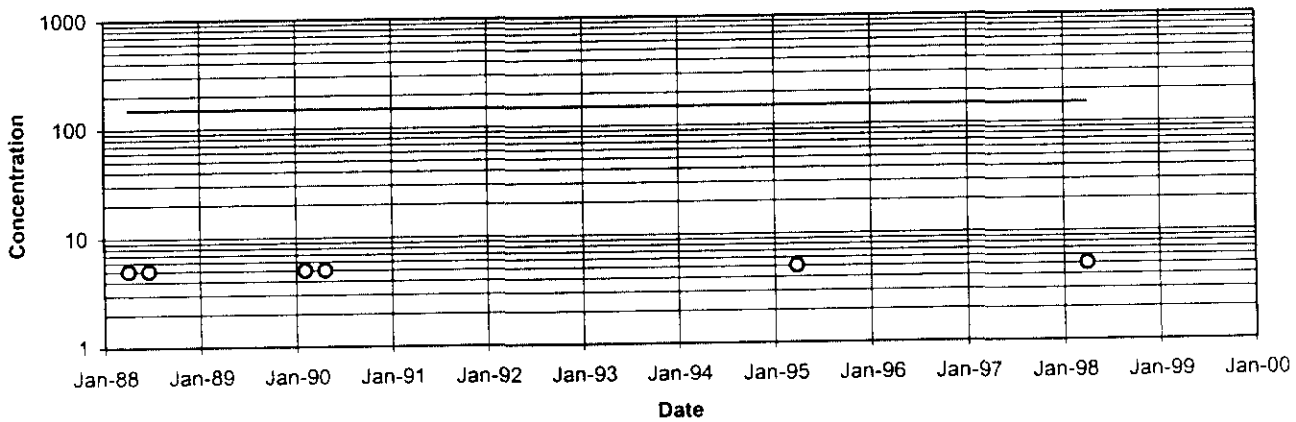
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

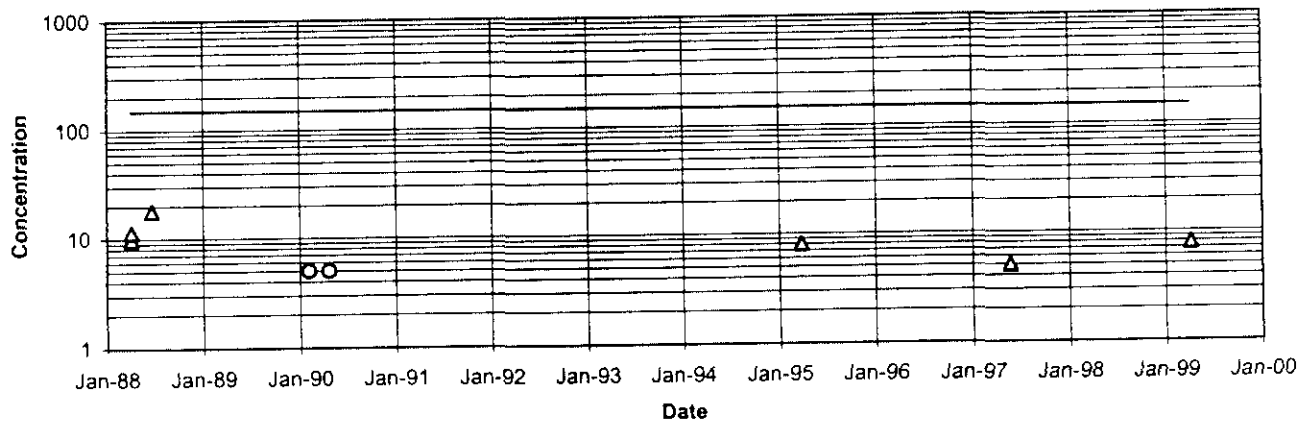
G115



G116



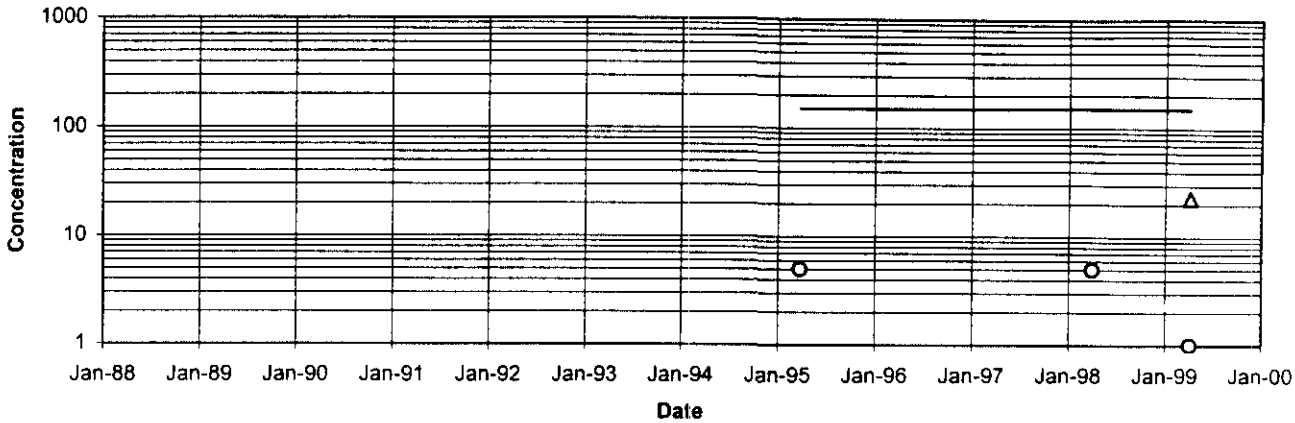
G116A



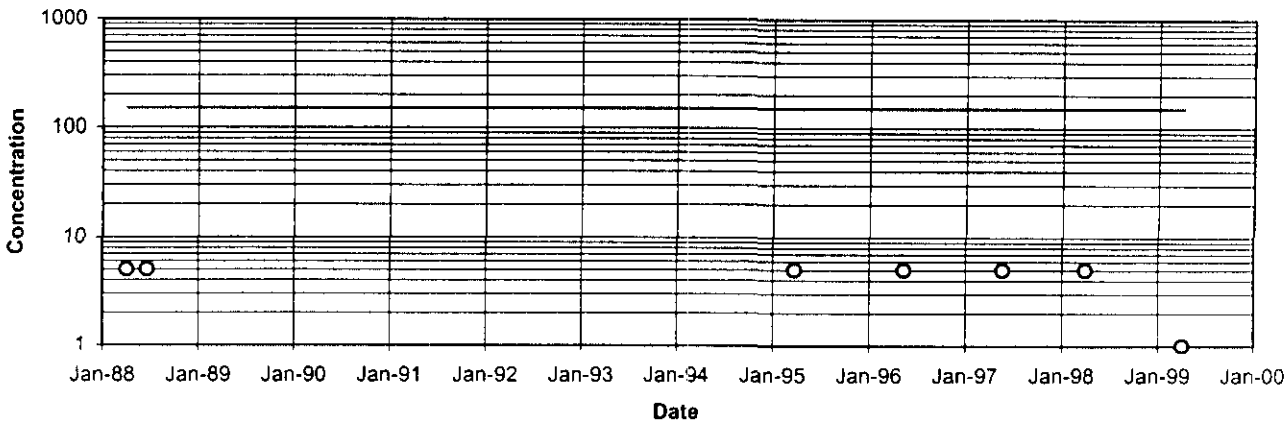
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

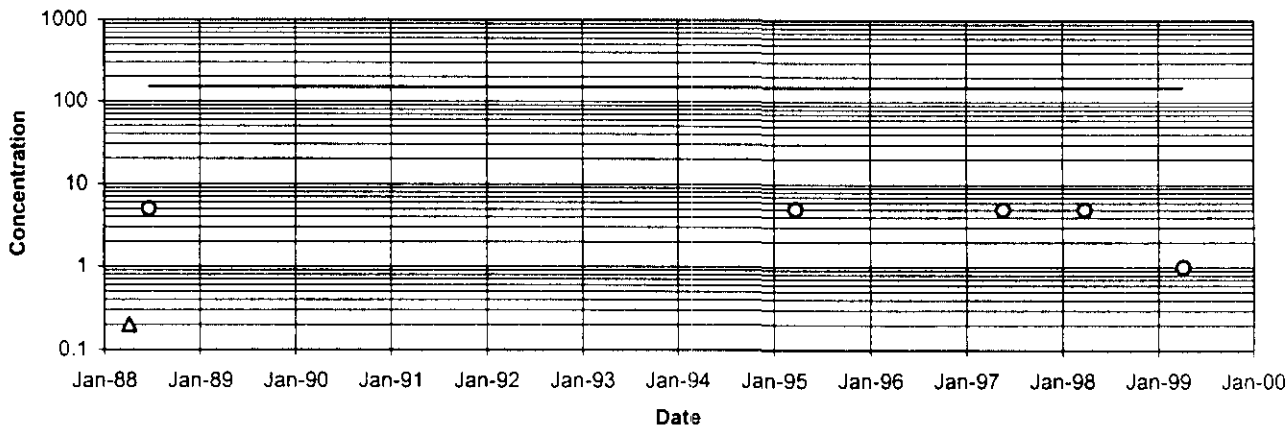
G116D



G117



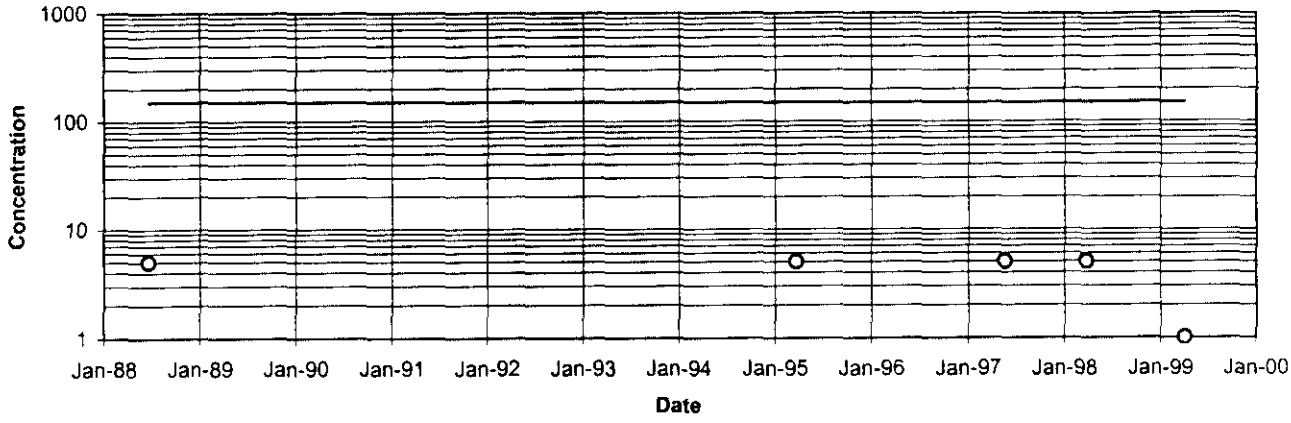
G118A



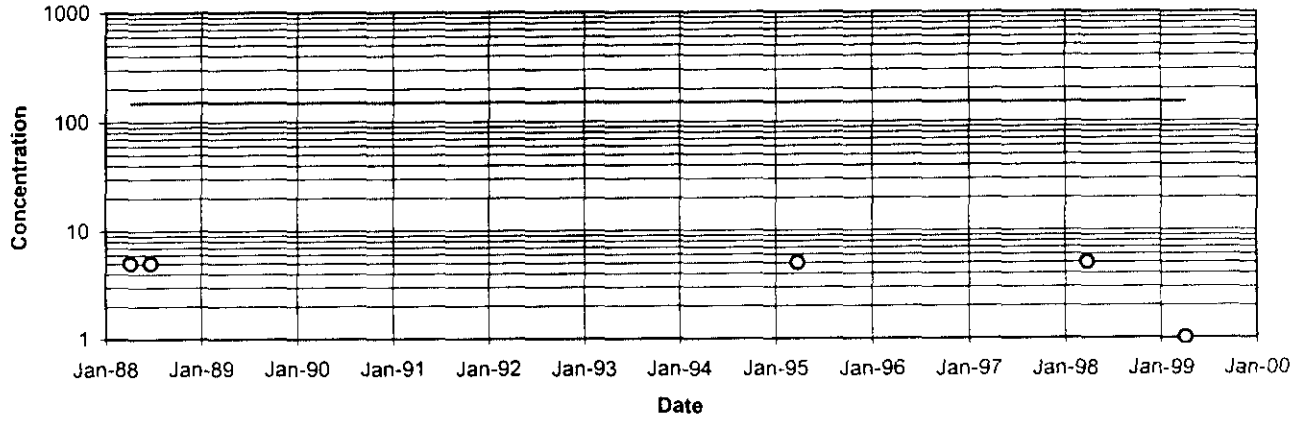
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

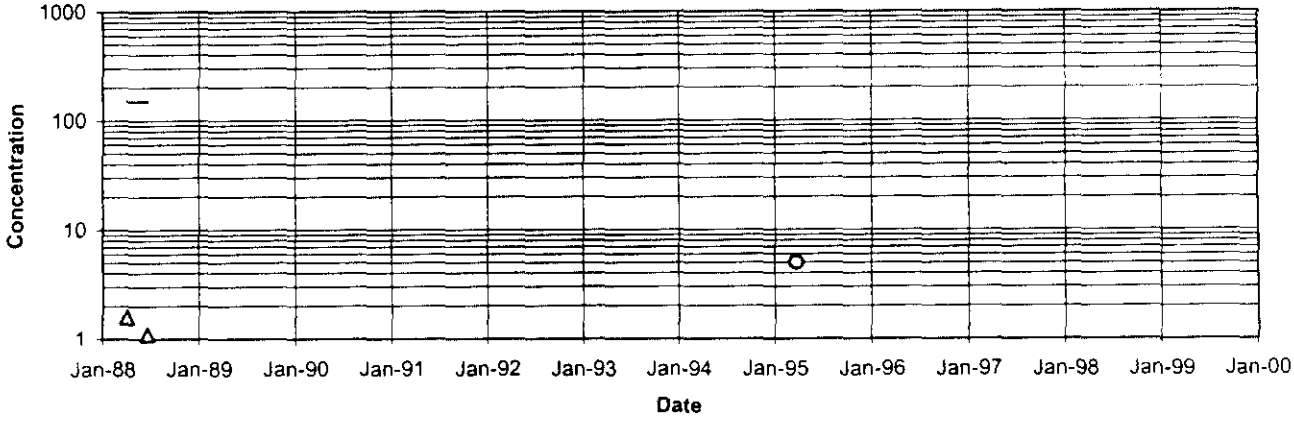
G118R



G119



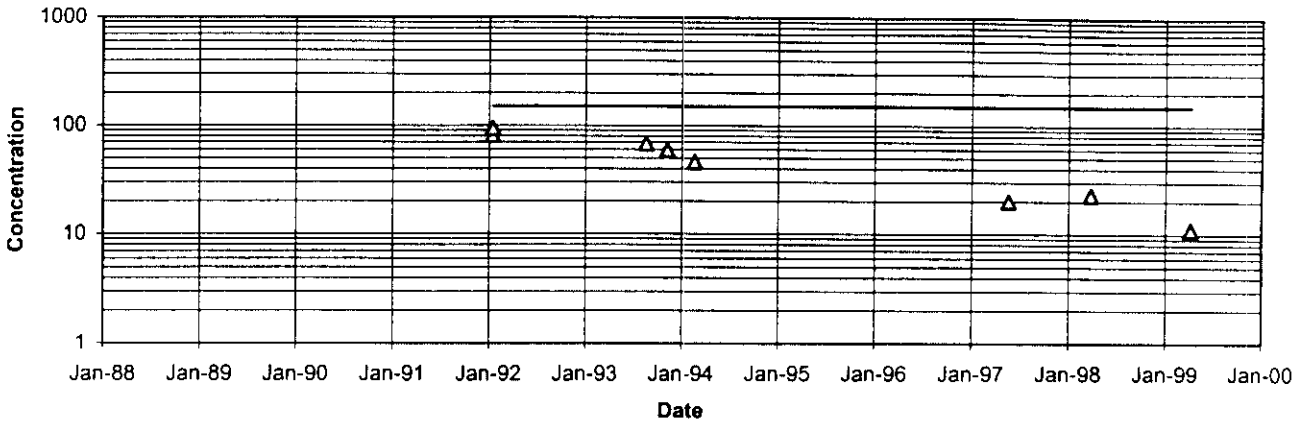
G119A



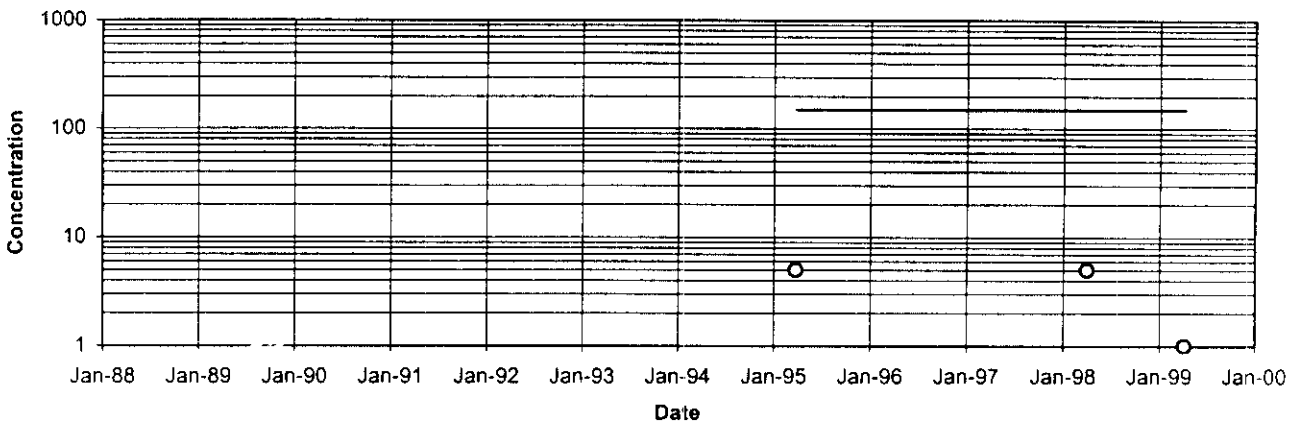
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

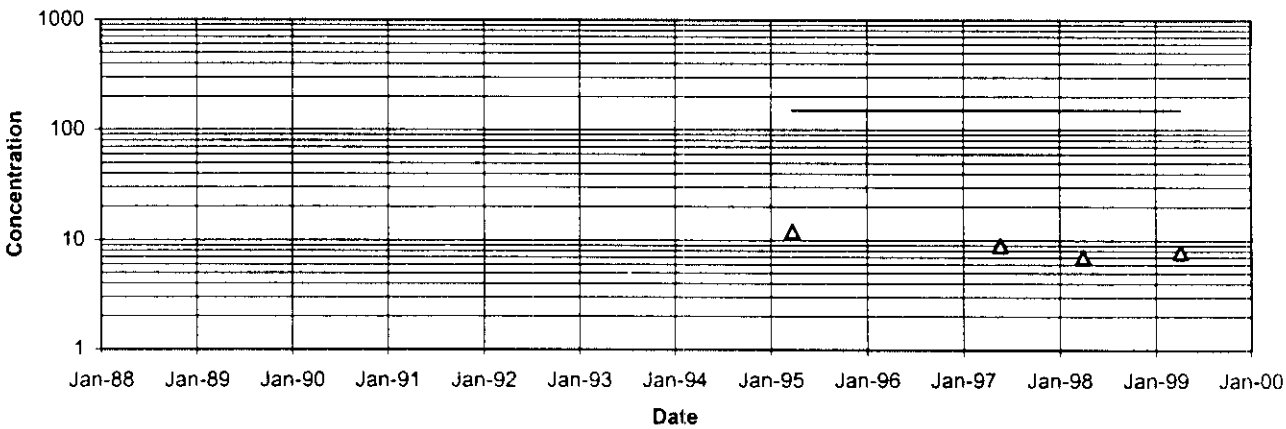
G120B



G130



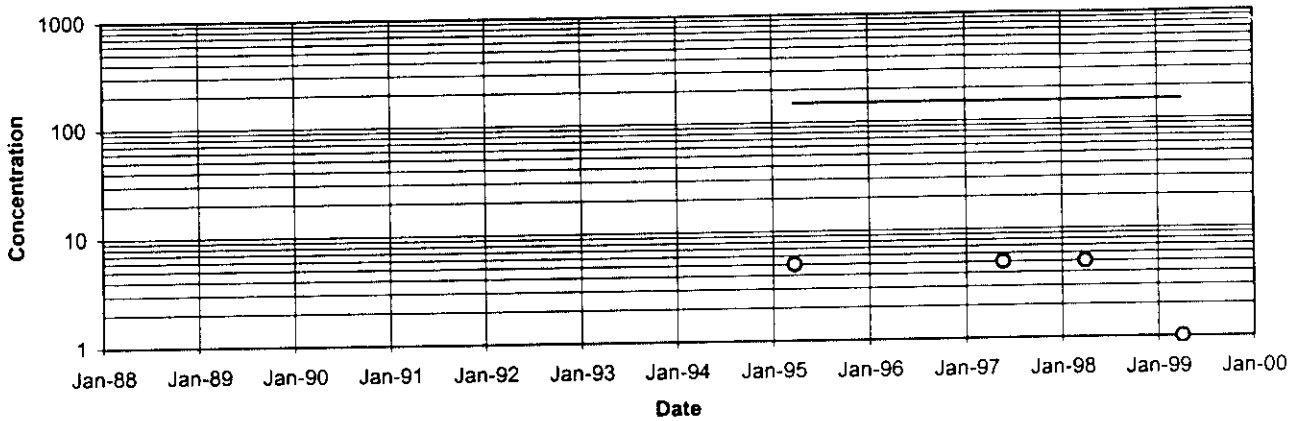
G132



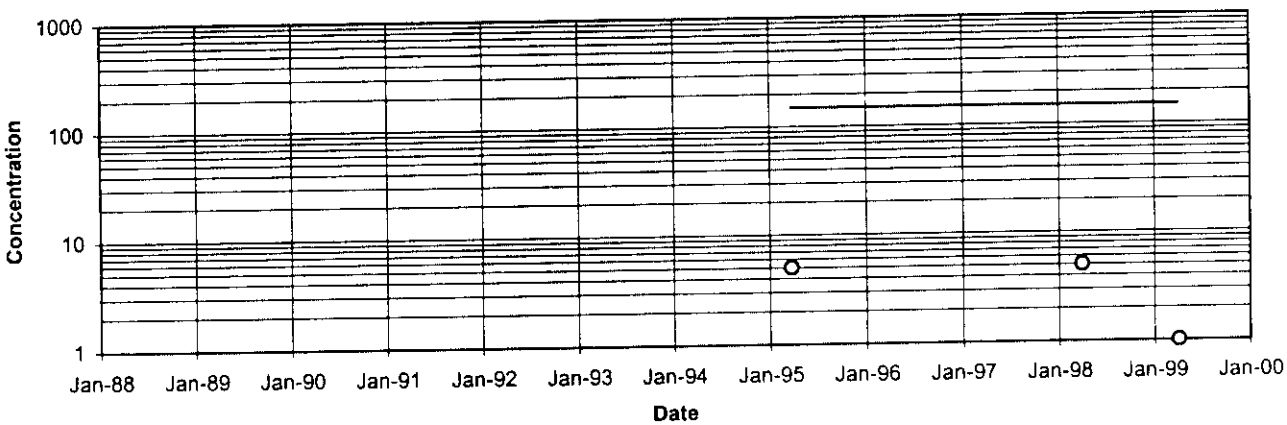
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration ○ NonDetect

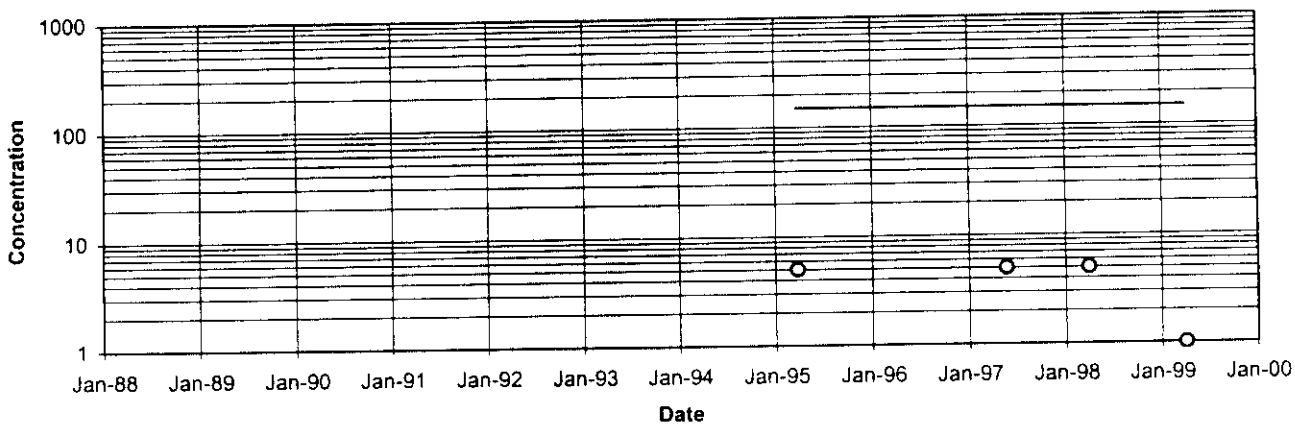
G33D



G33S



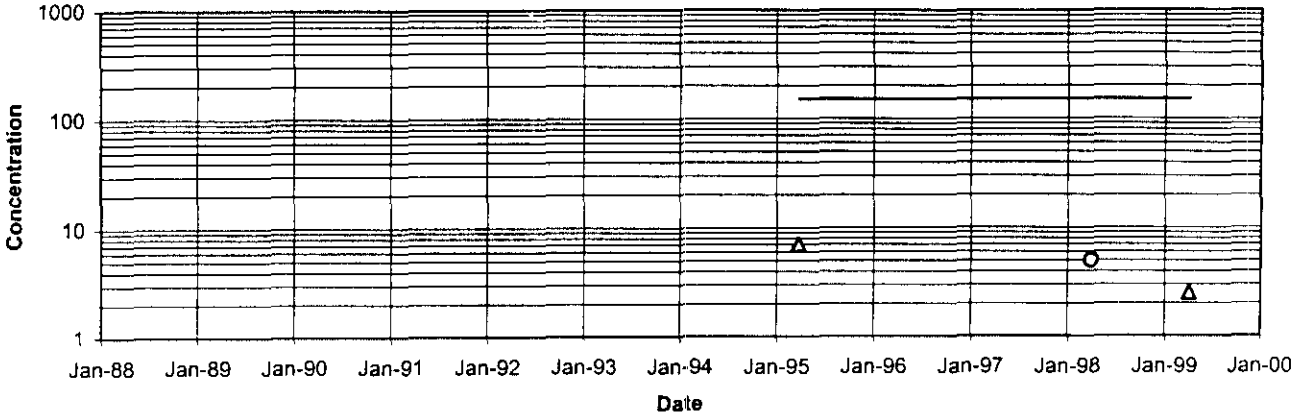
G34D



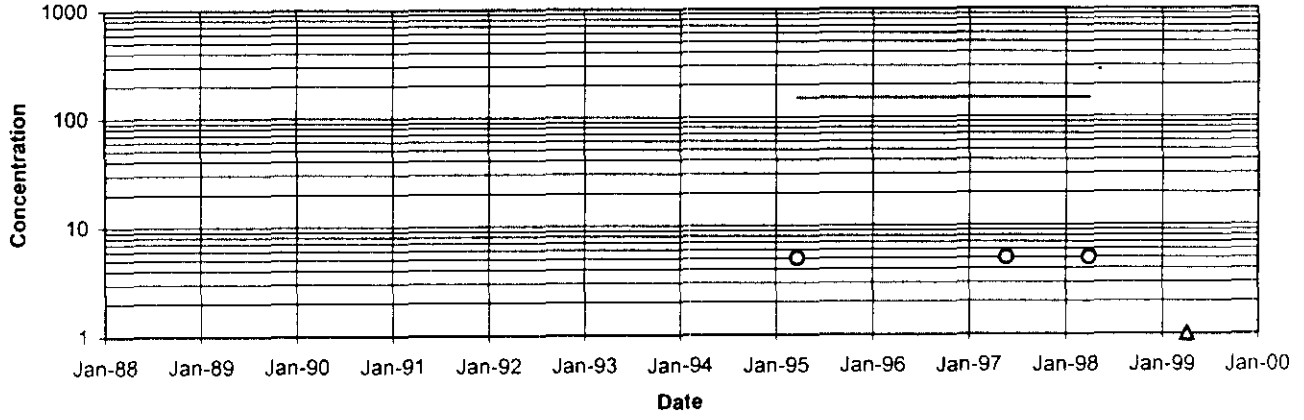
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

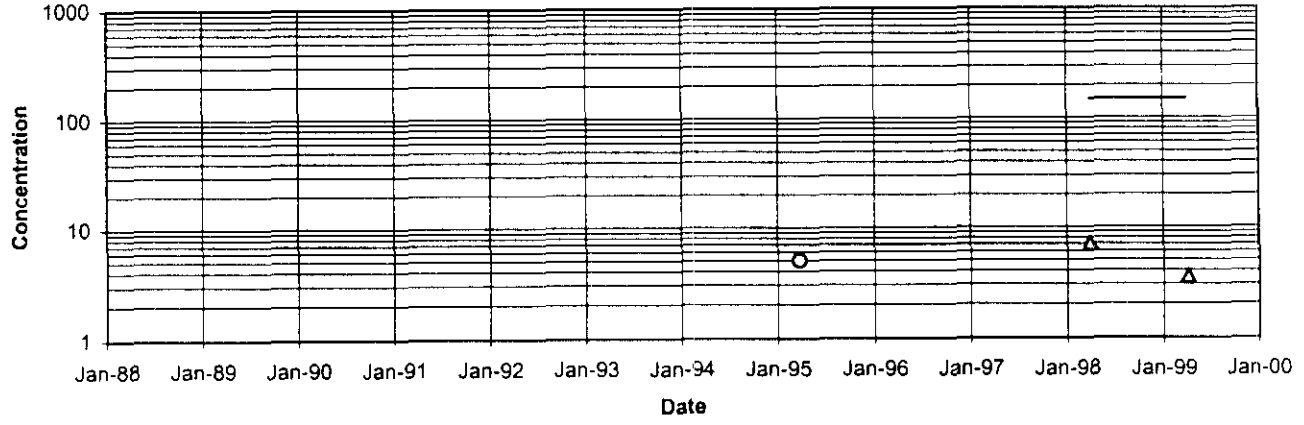
G34S



G35D



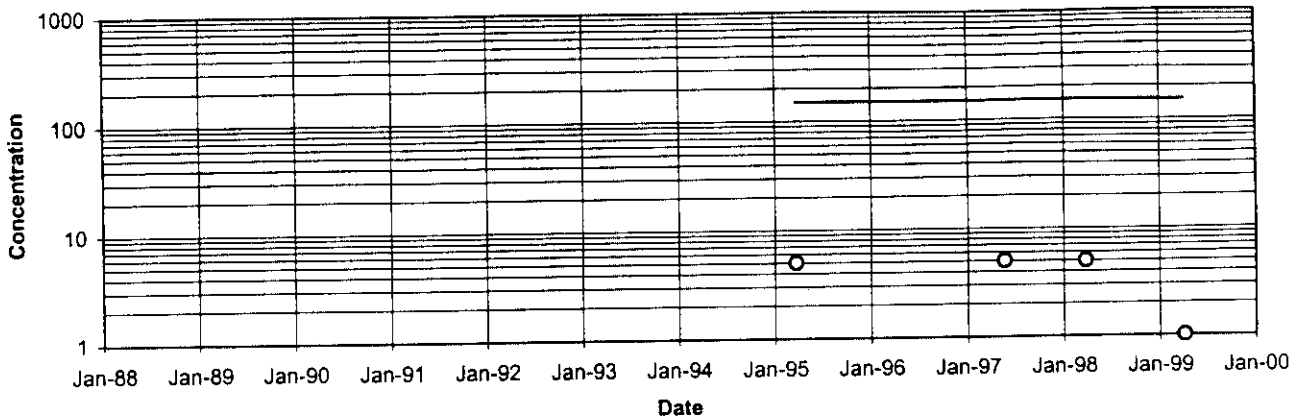
G35S



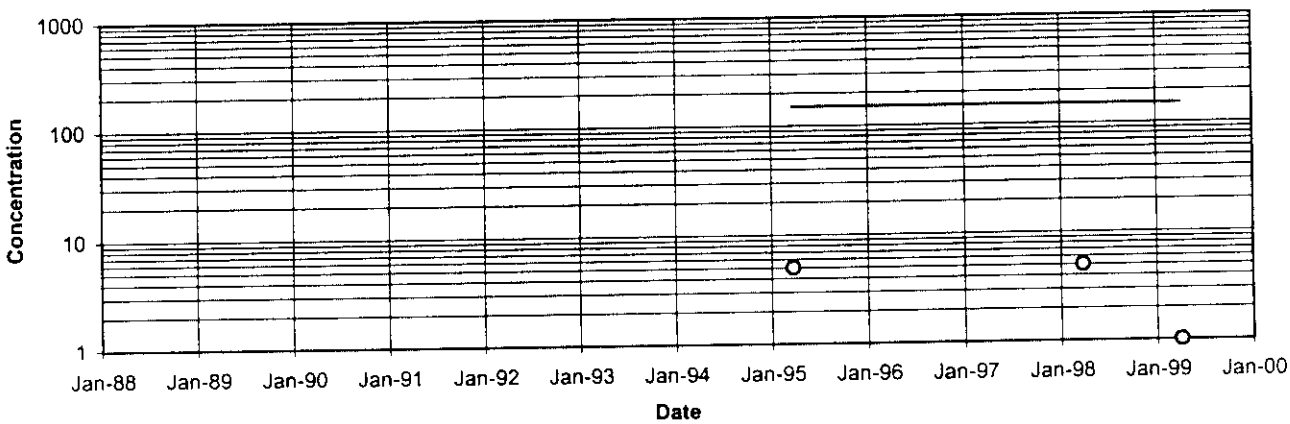
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

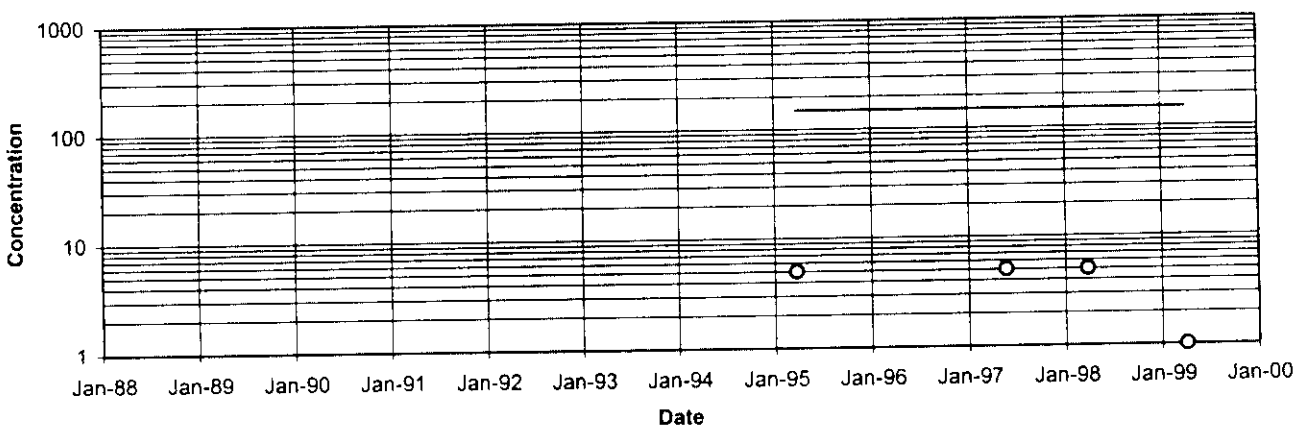
G36



G37D



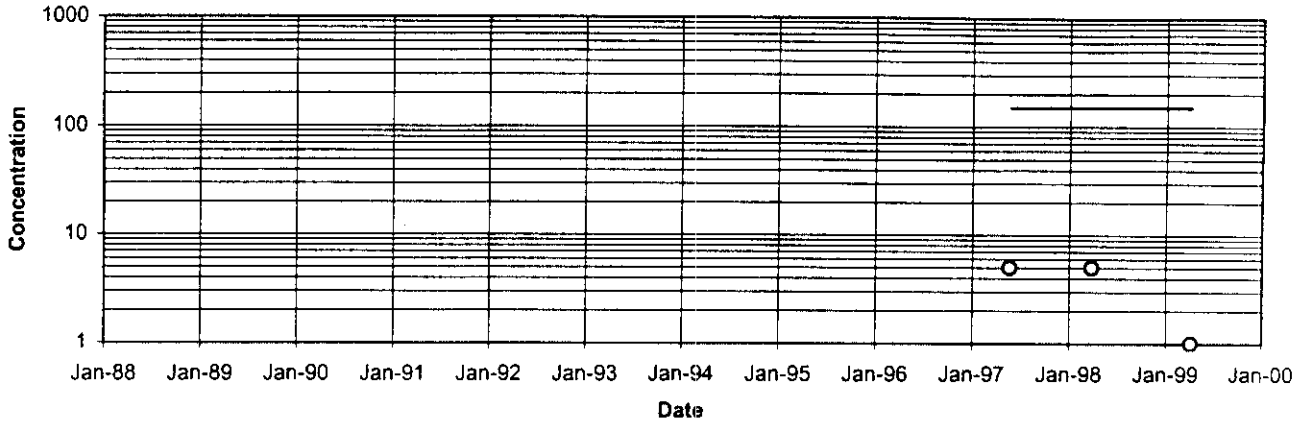
G37S



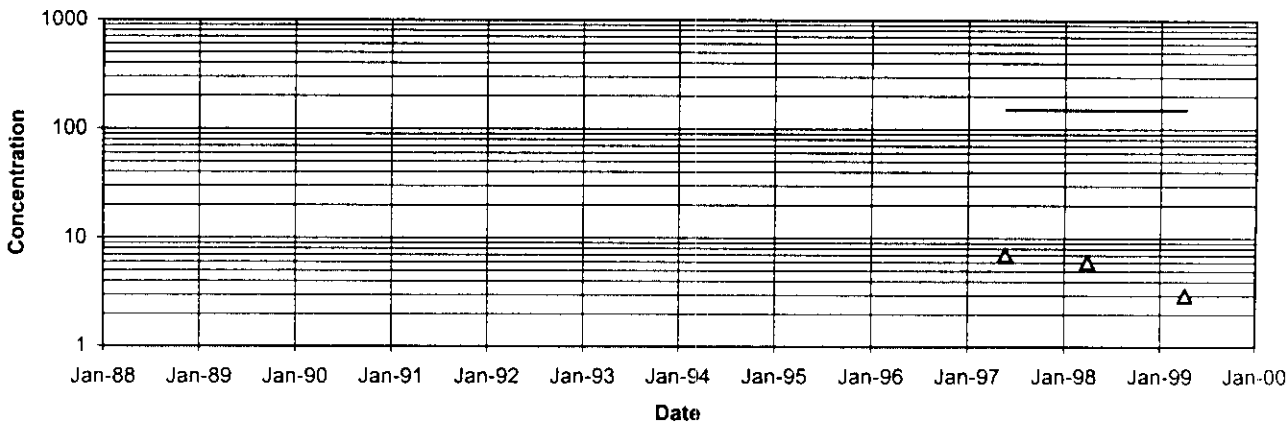
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

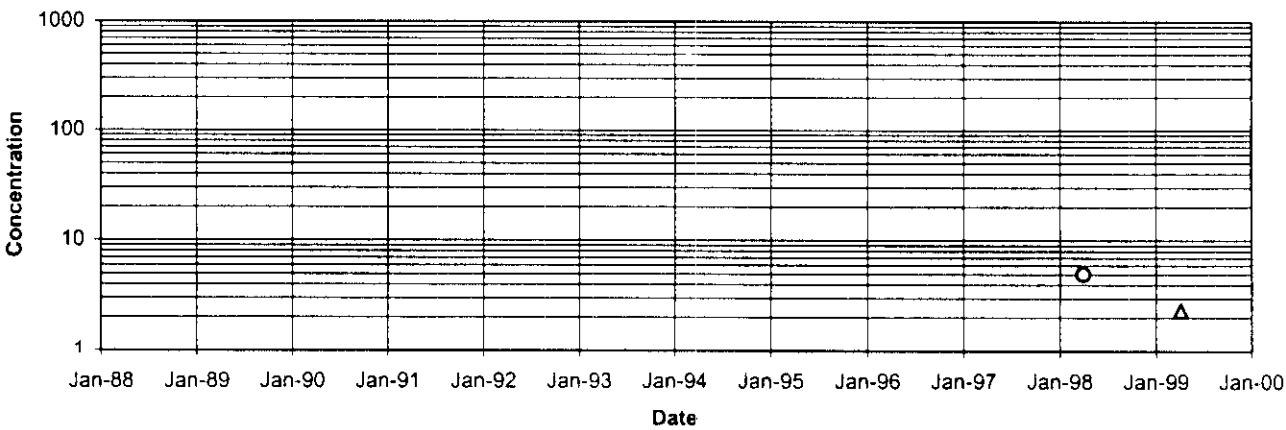
G38



G39



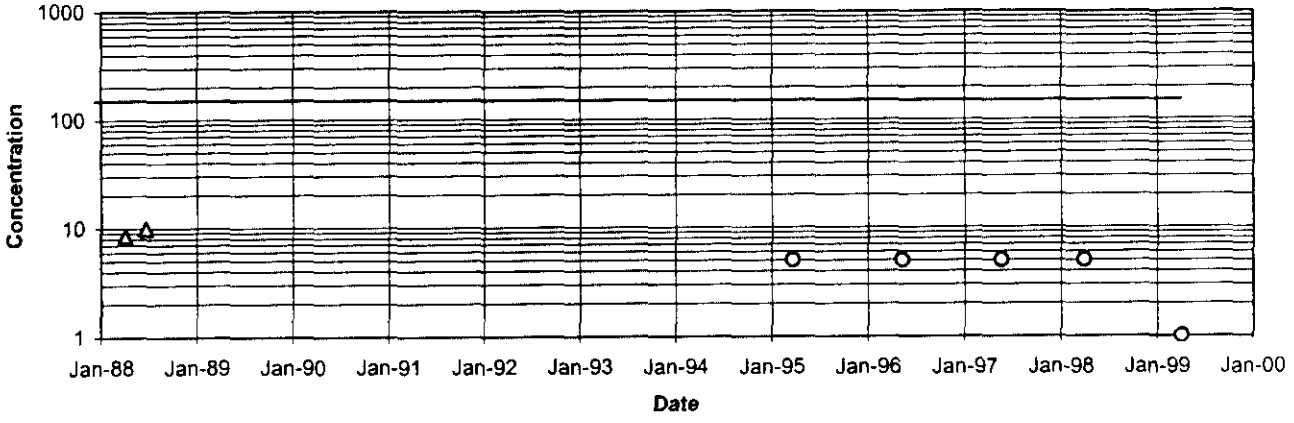
G40



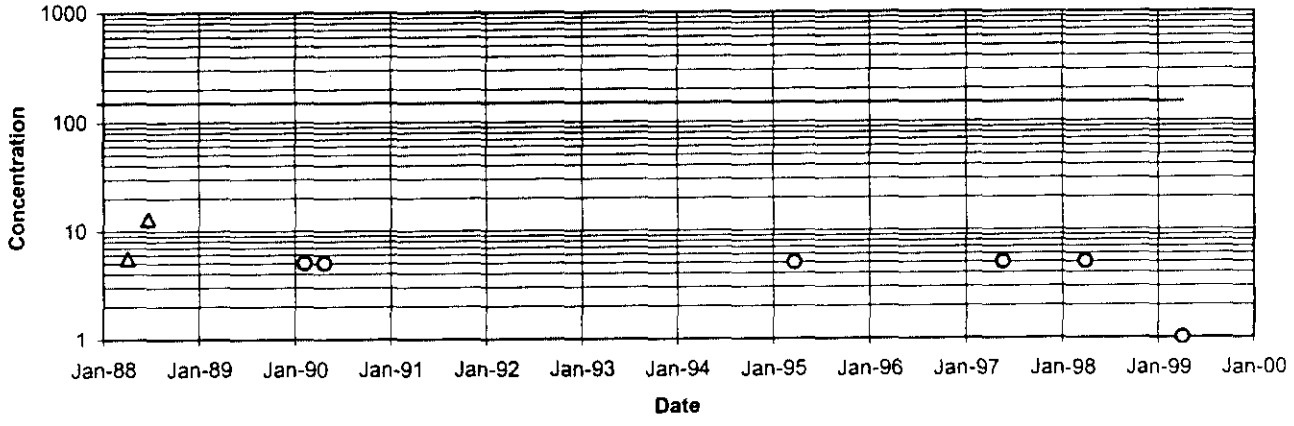
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

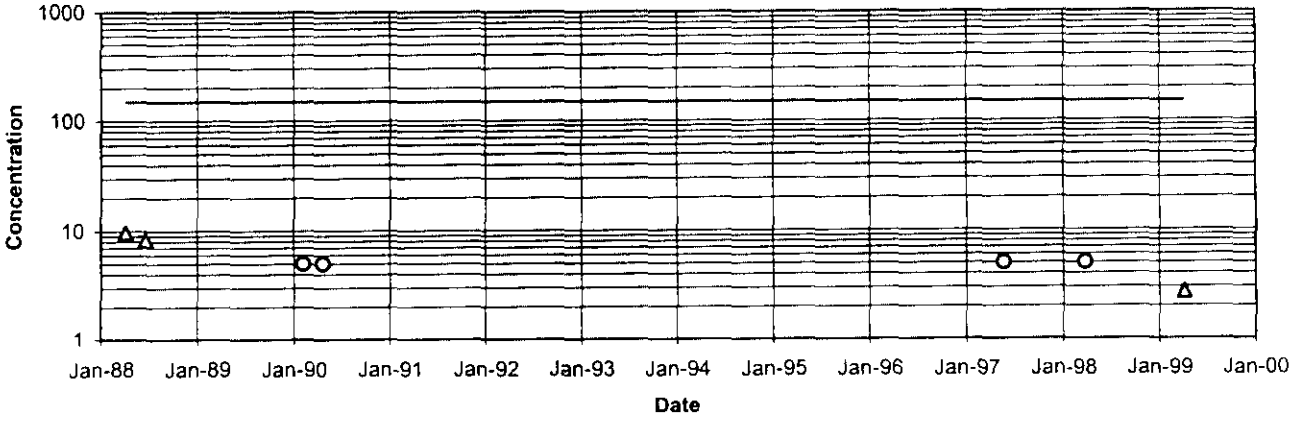
MW106



P1



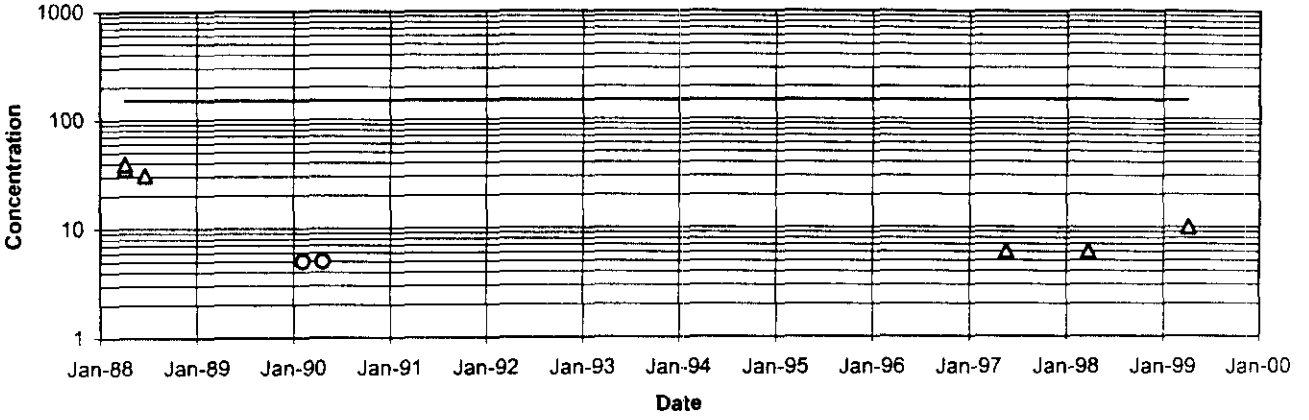
P3R



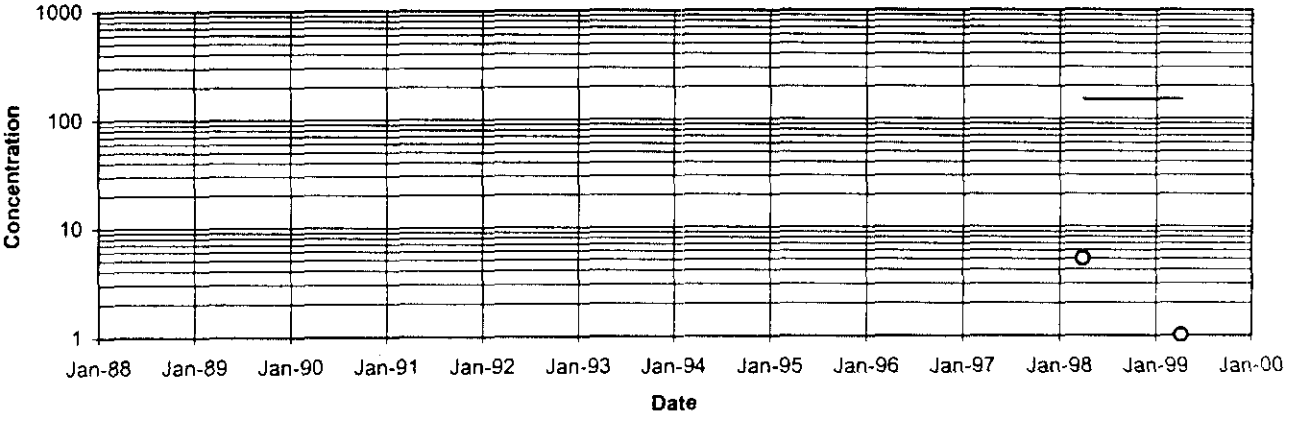
cis-1,2-Dichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

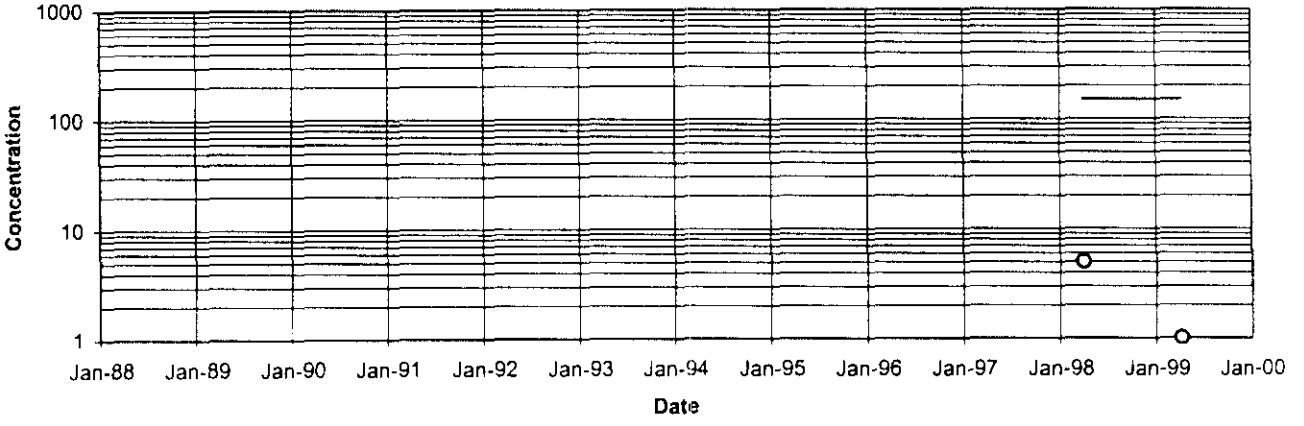
P4R

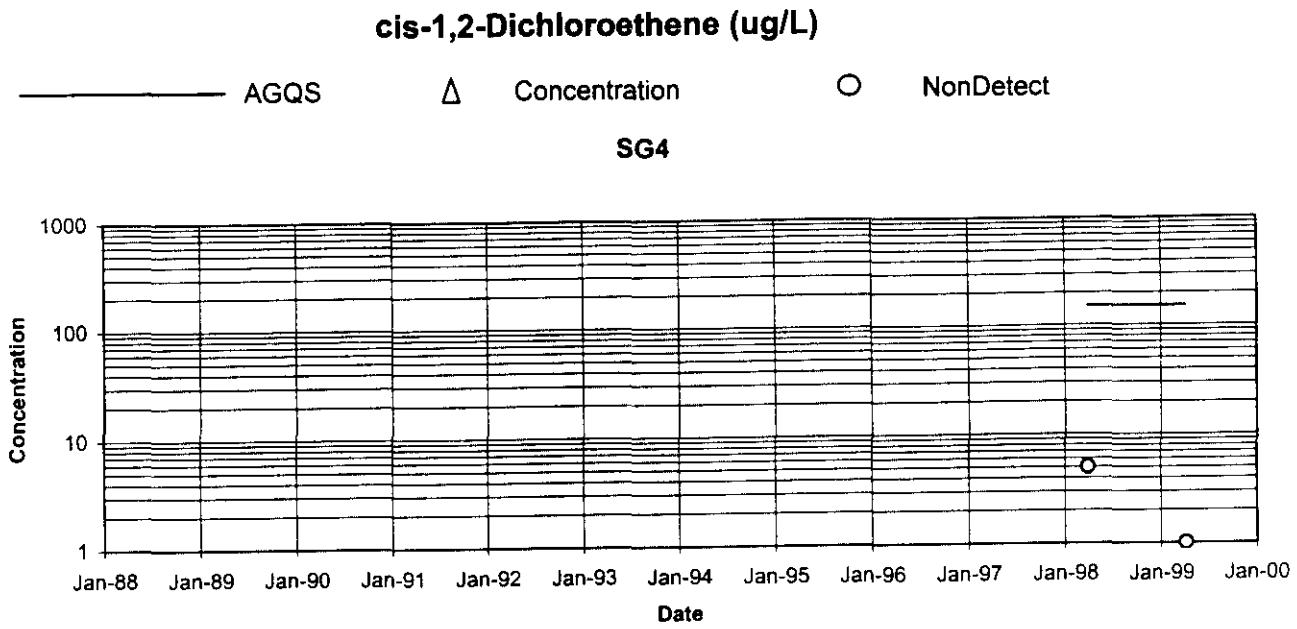


SG1



SG3

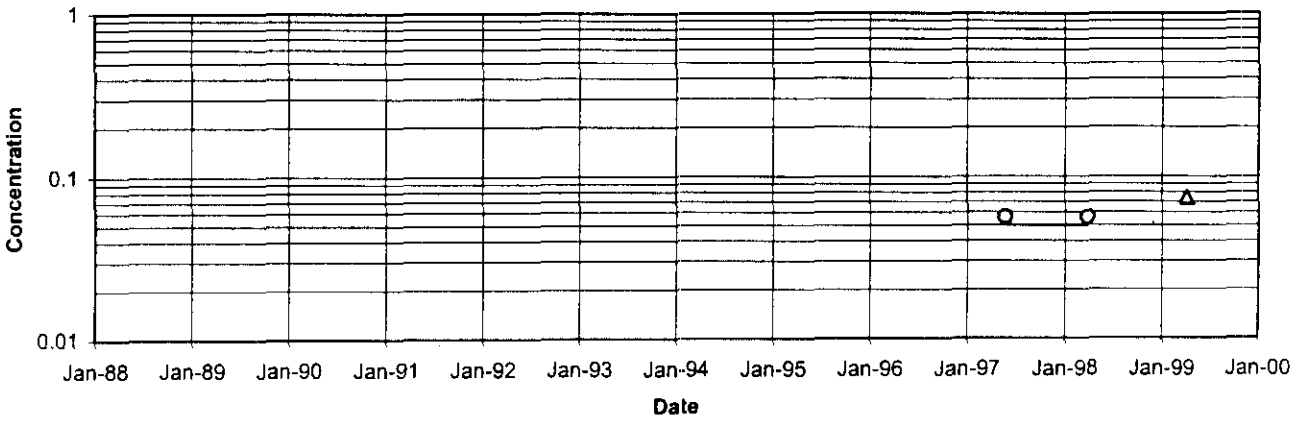



cis-1,2-Dichloroethene (ug/L)
AGQS
Concentration
NonDetect
SG4
1000
100
10
1
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

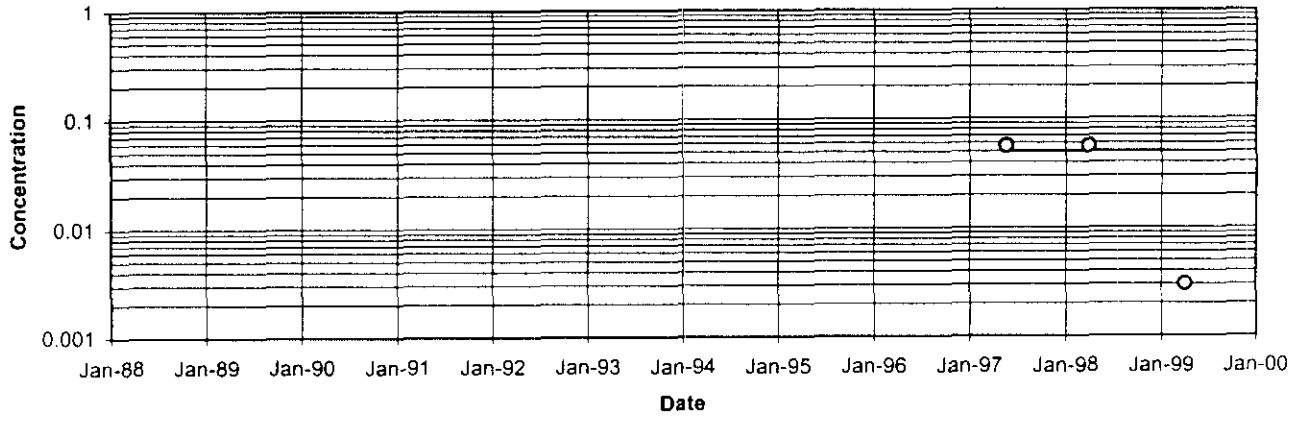
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

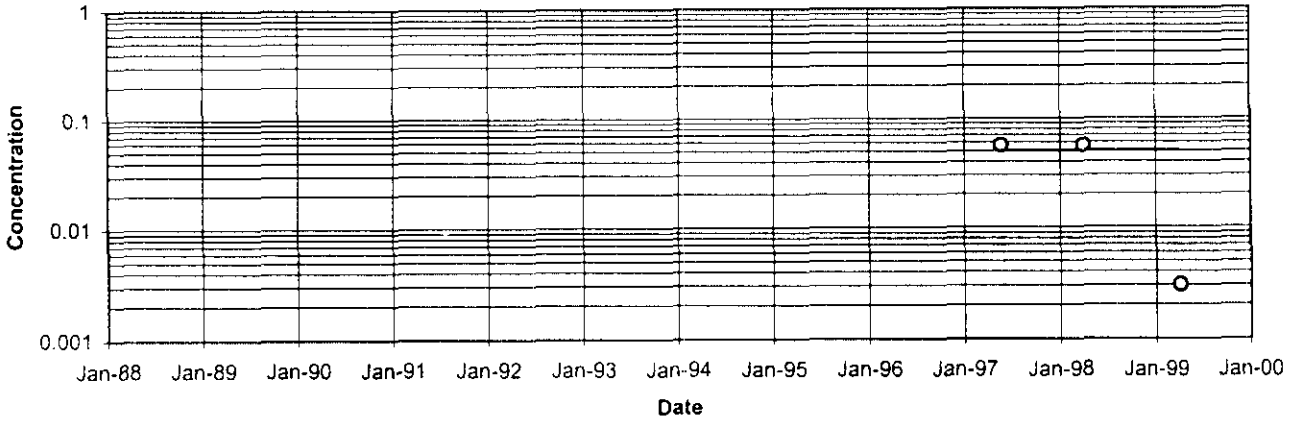
B15R



G109



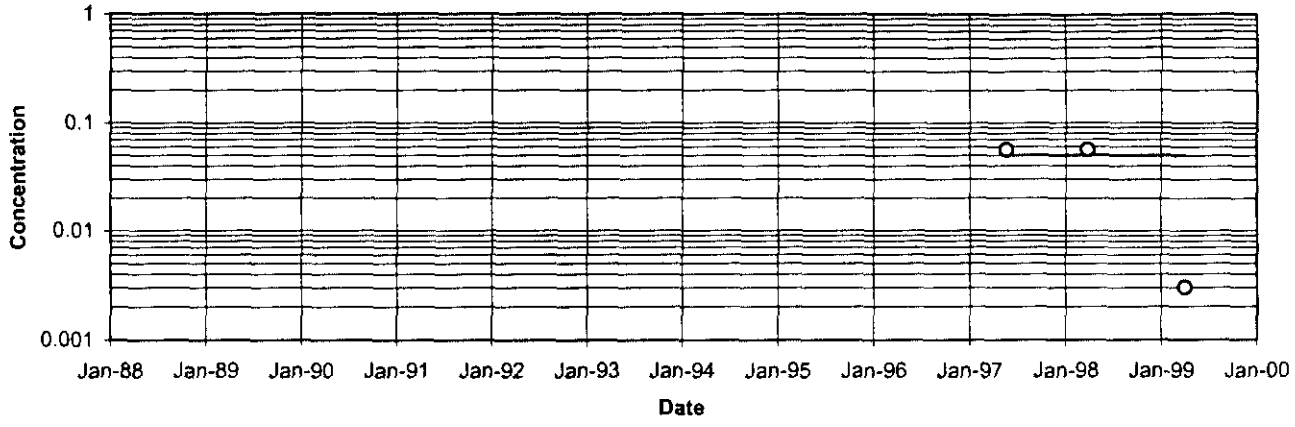
G109A



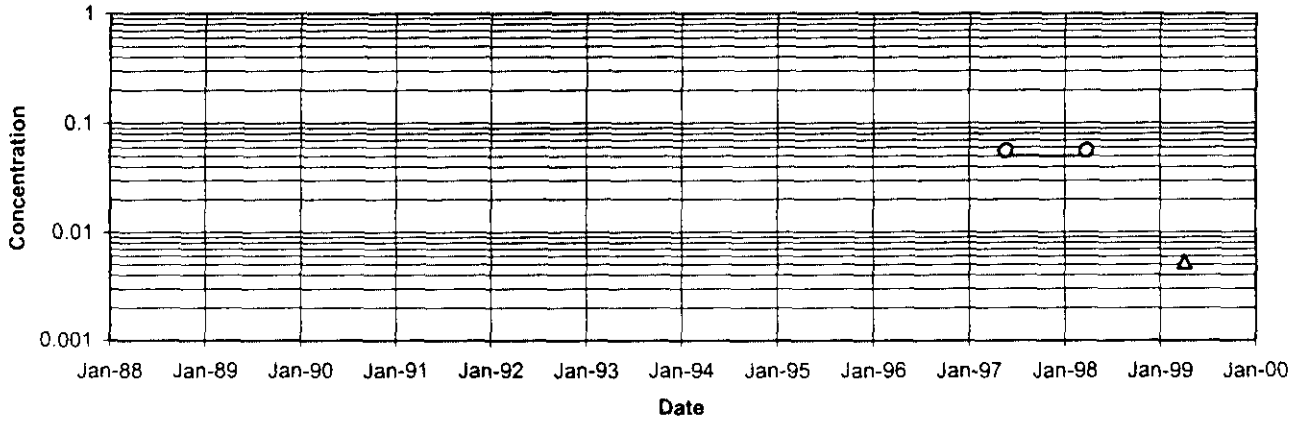
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

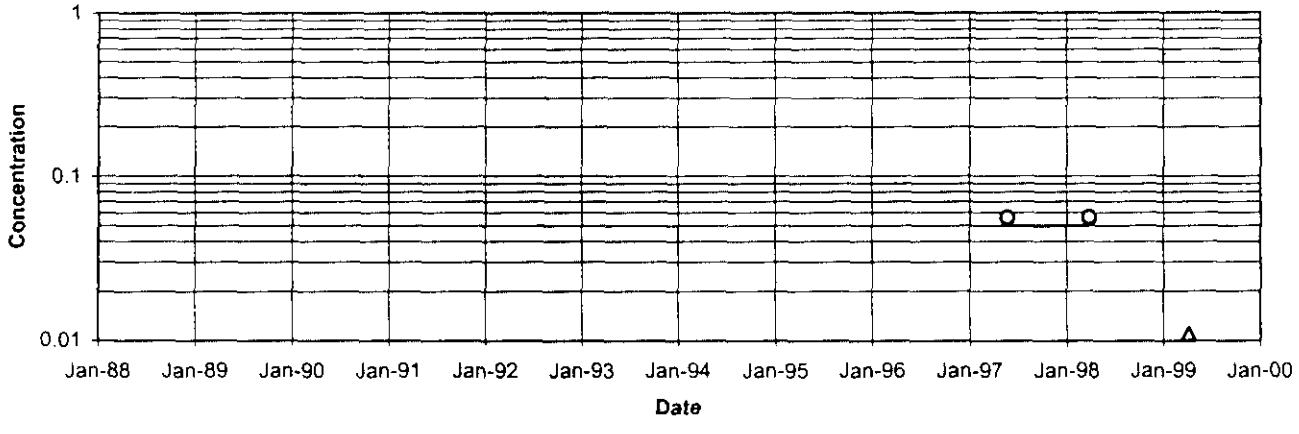
G113



G113A



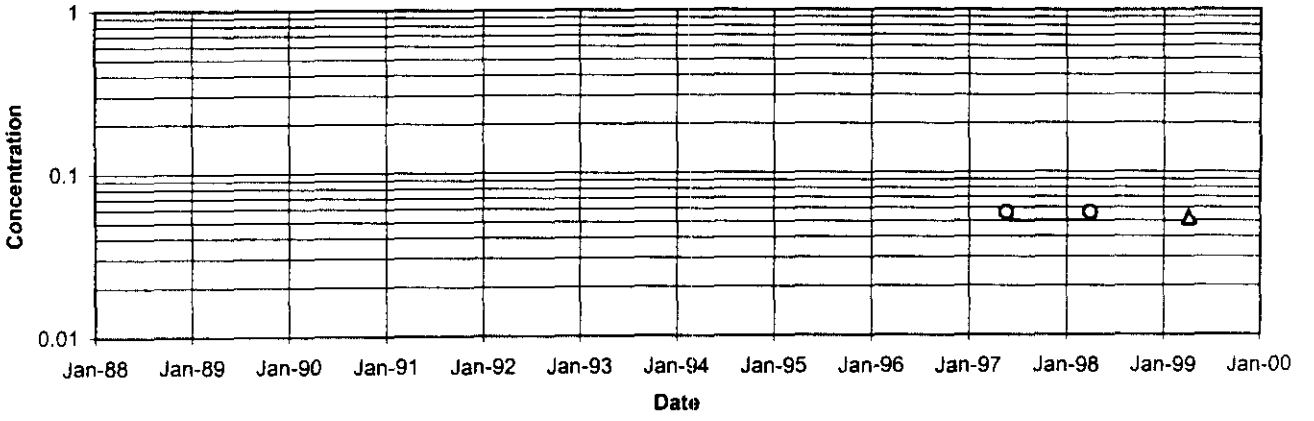
G114



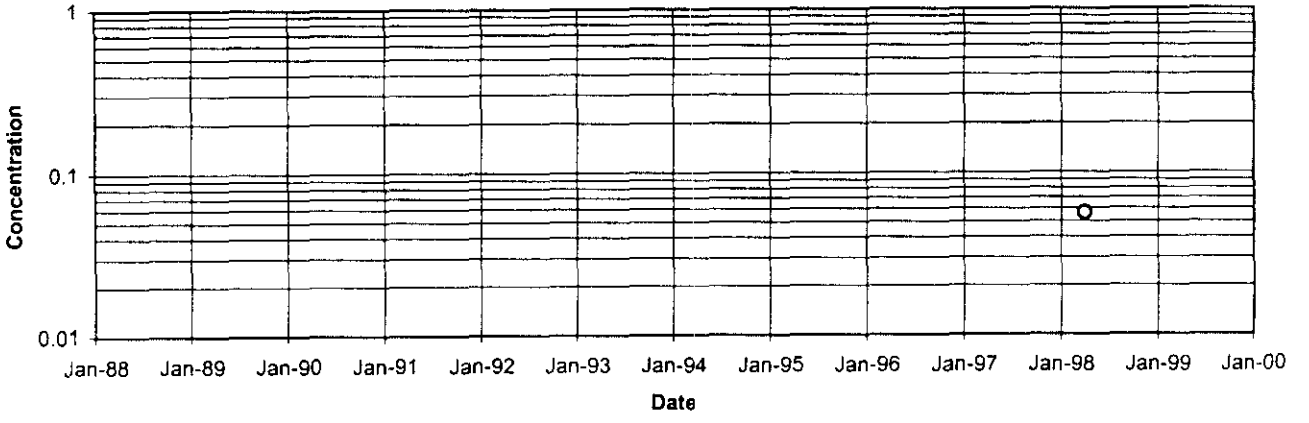
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

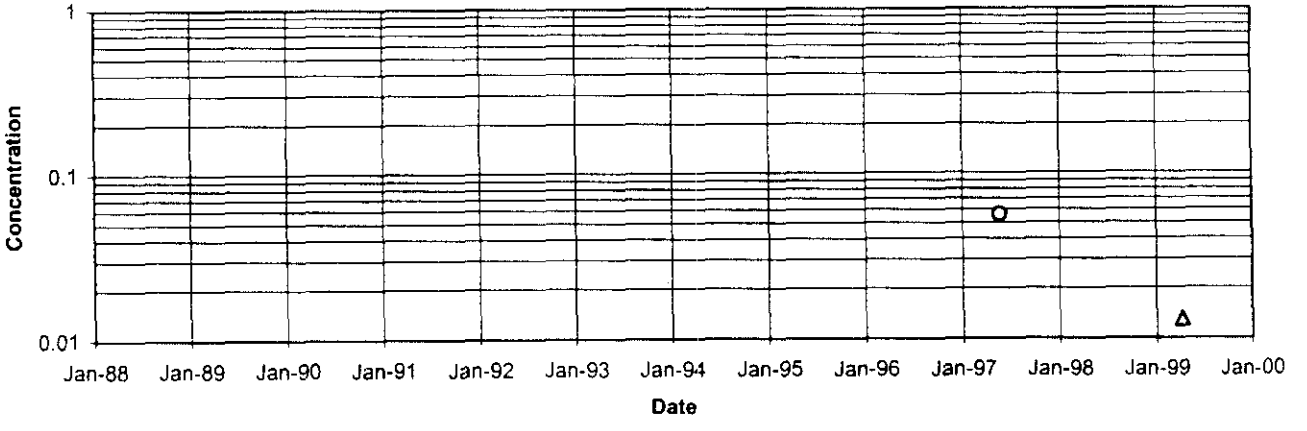
G115



G116



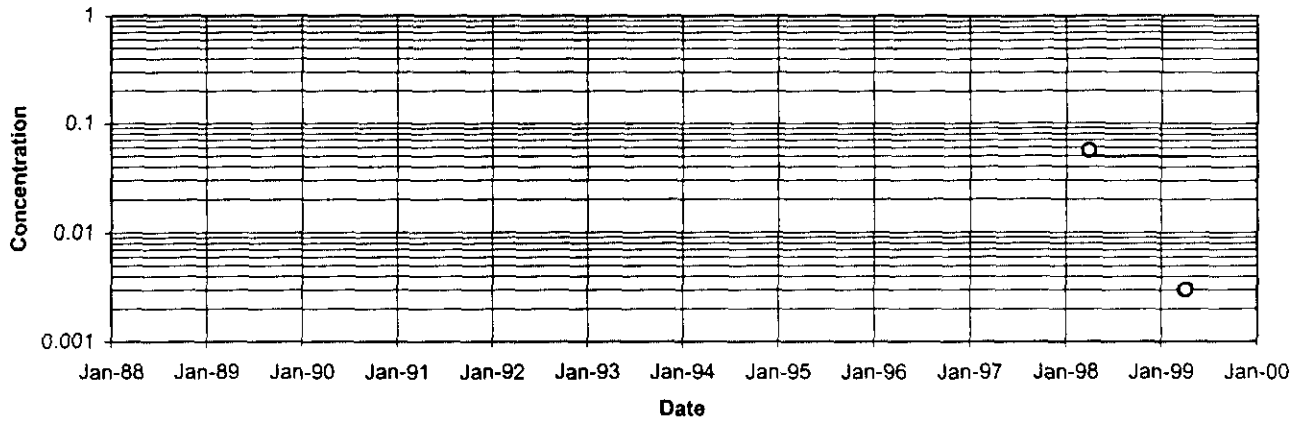
G116A



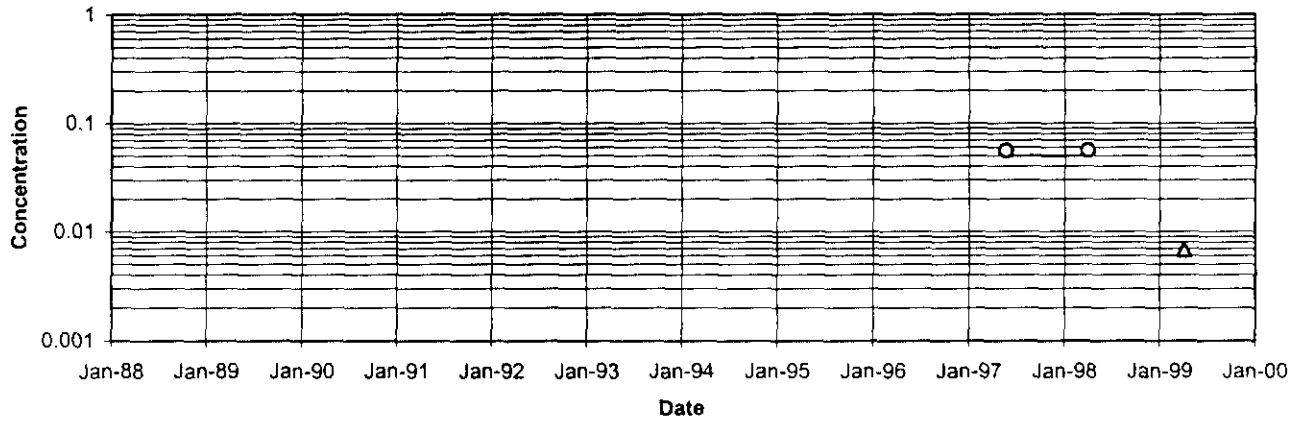
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

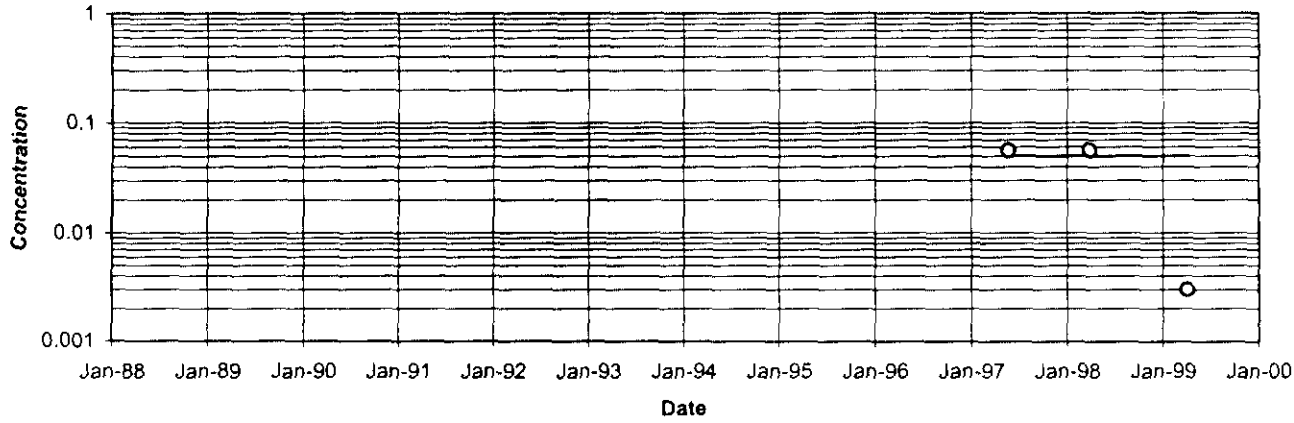
G116D



G117



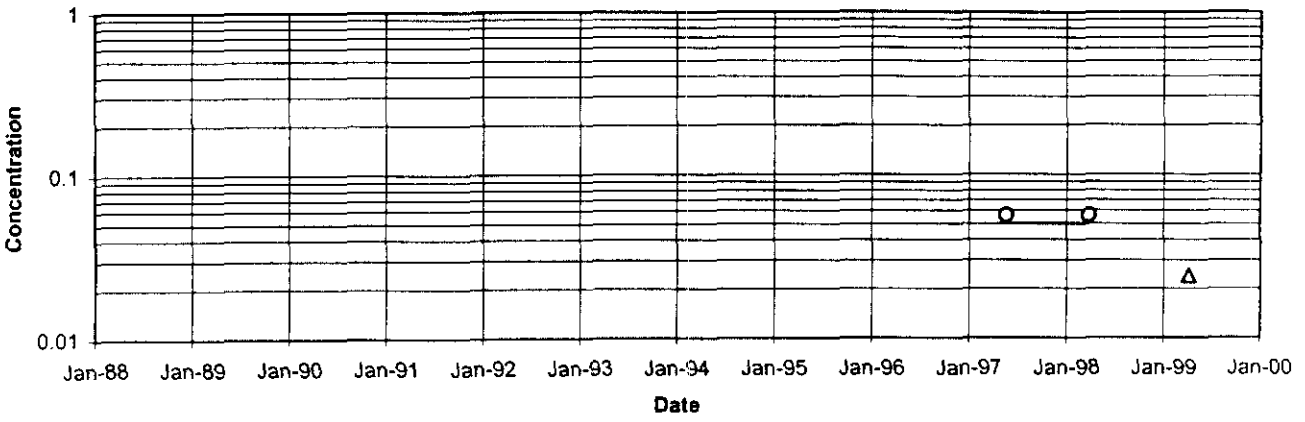
G118A



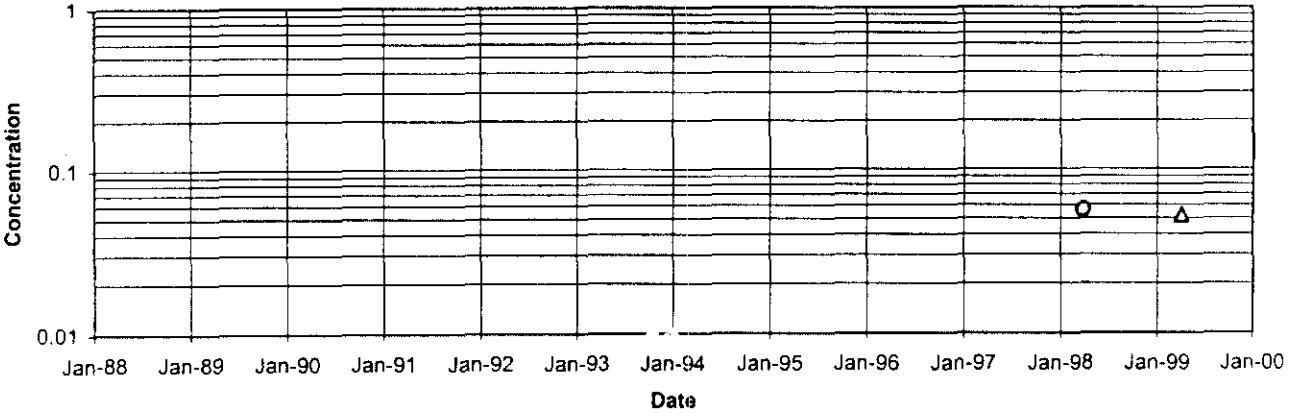
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

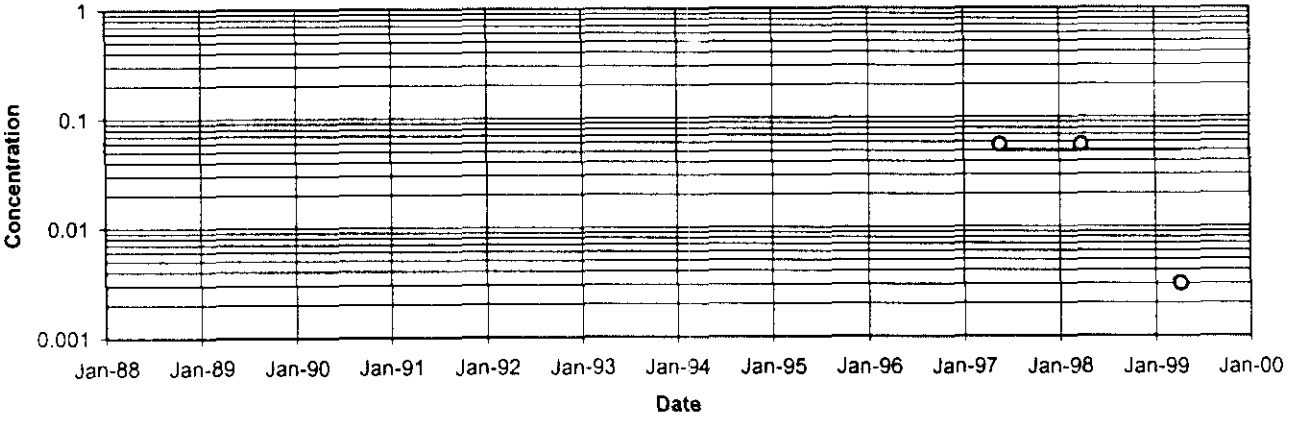
G118R



G119



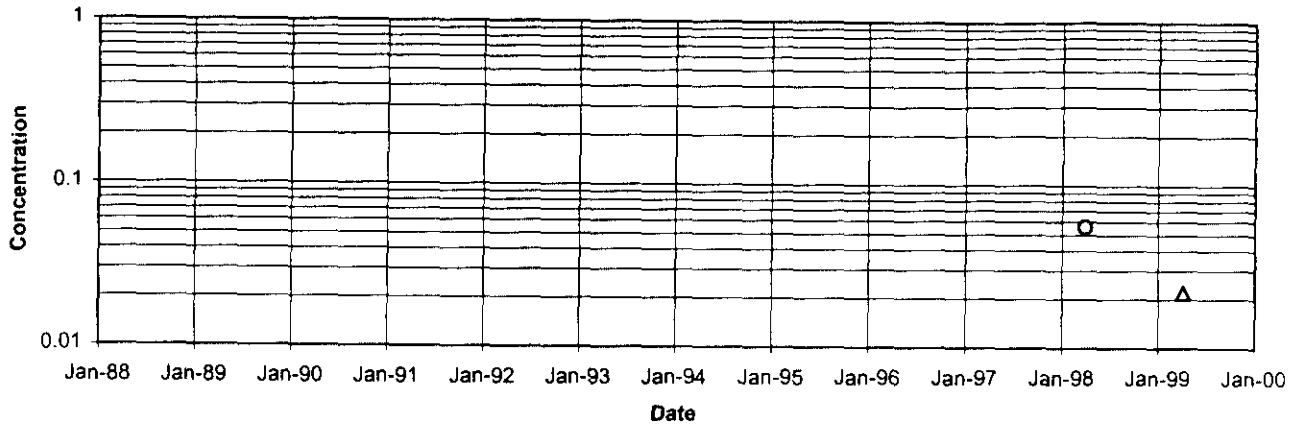
G120B



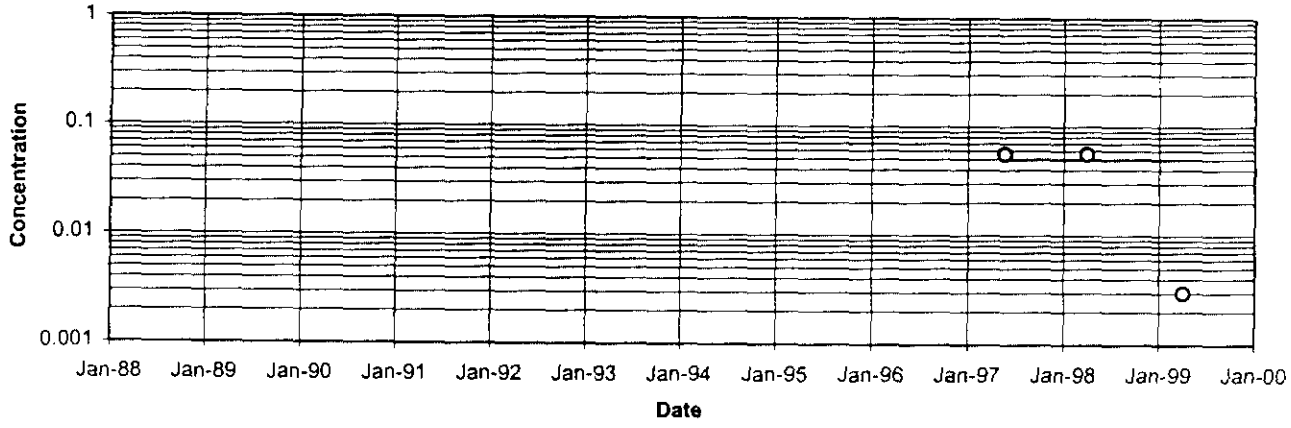
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

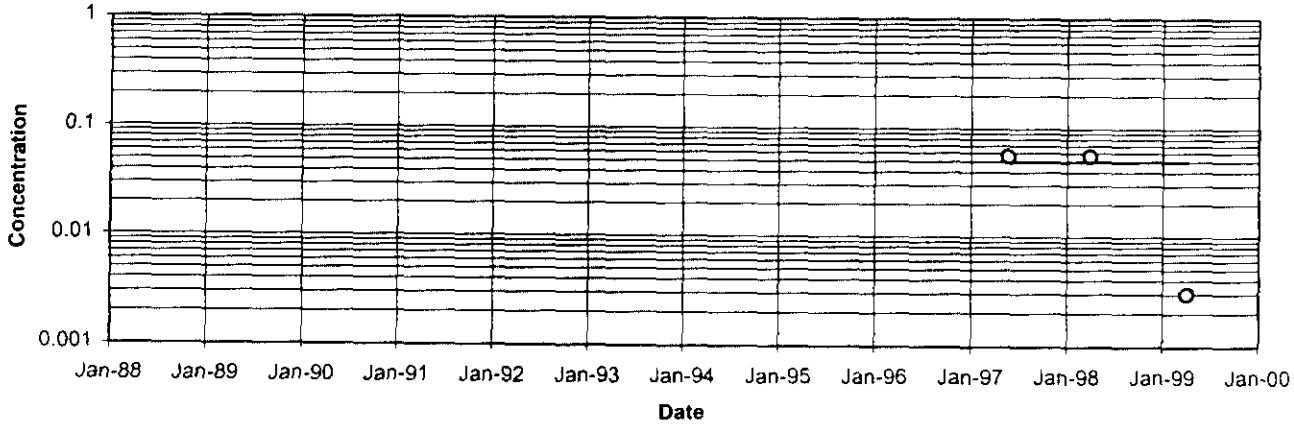
G130



G132



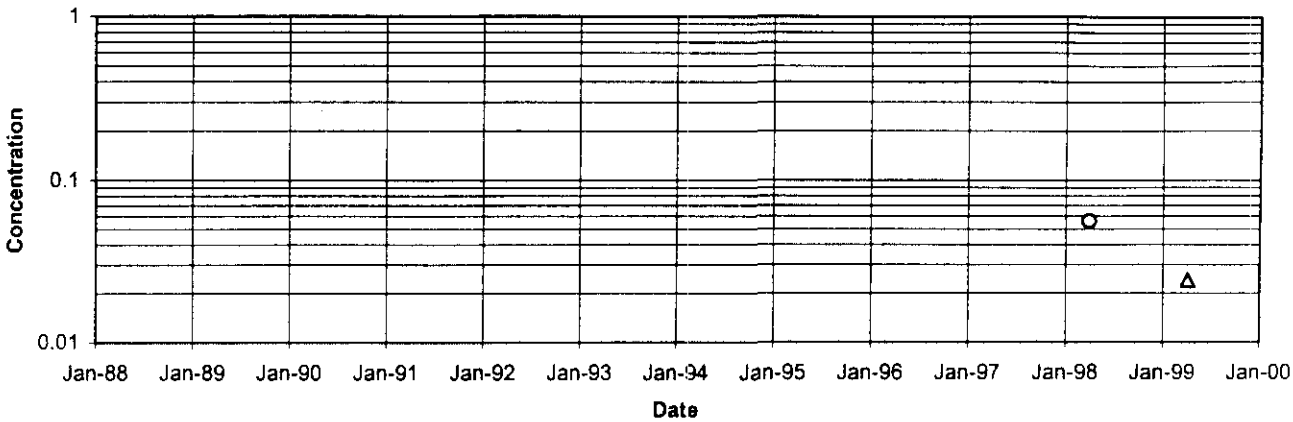
G33D



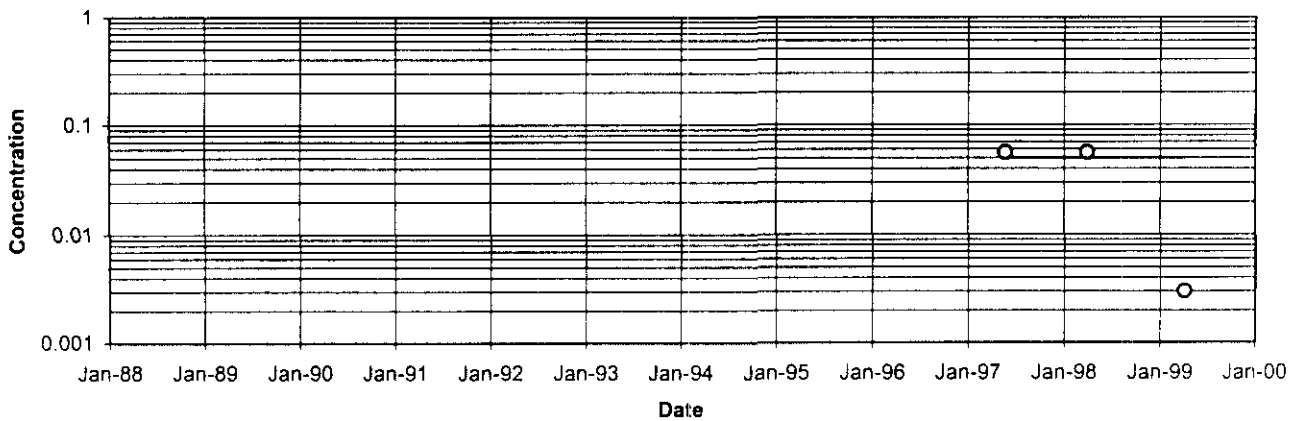
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

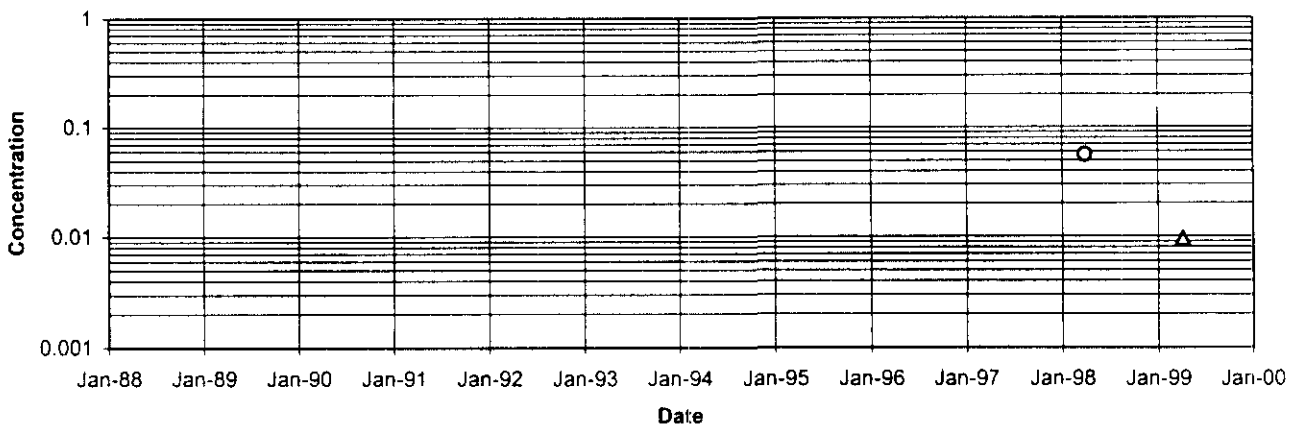
G33S



G34D



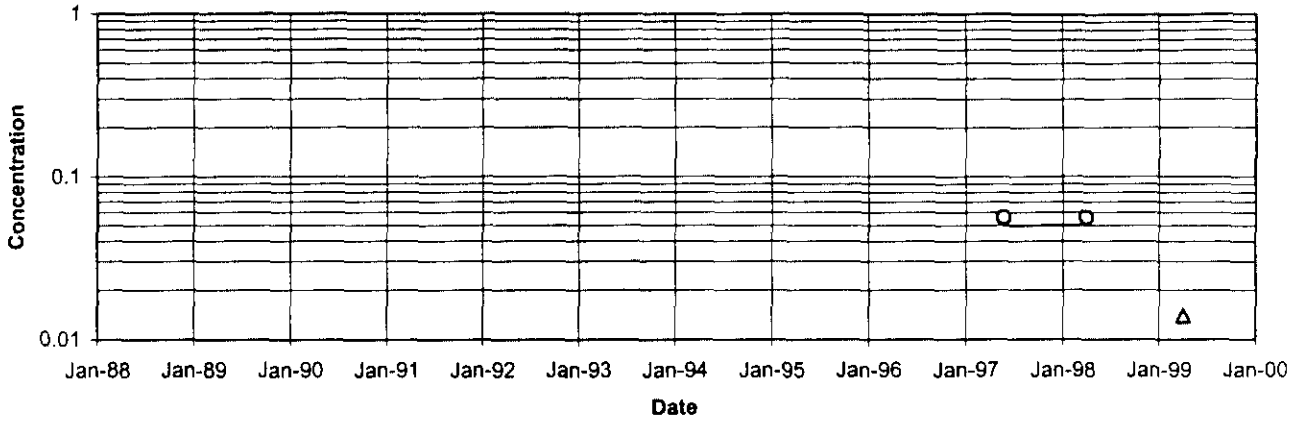
G34S



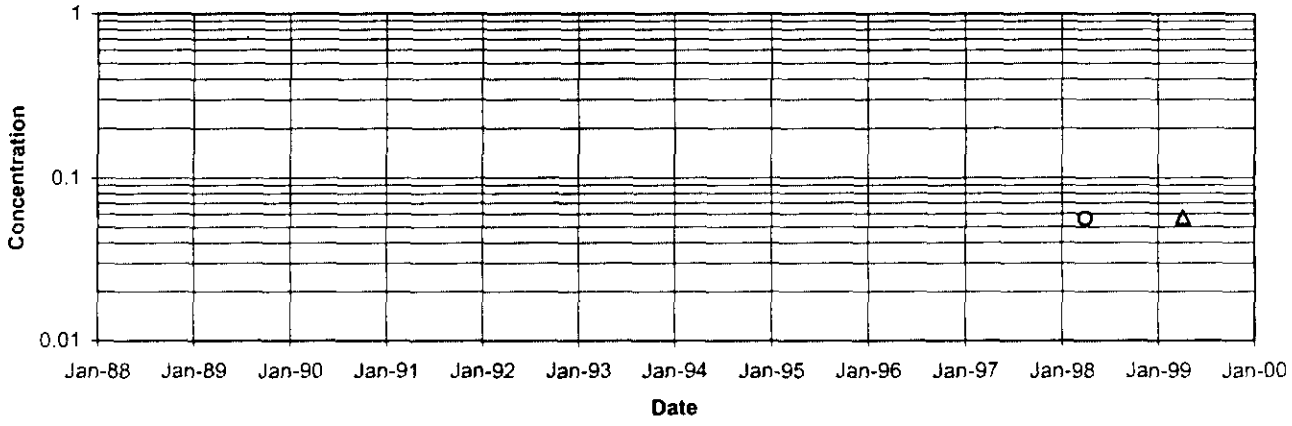
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

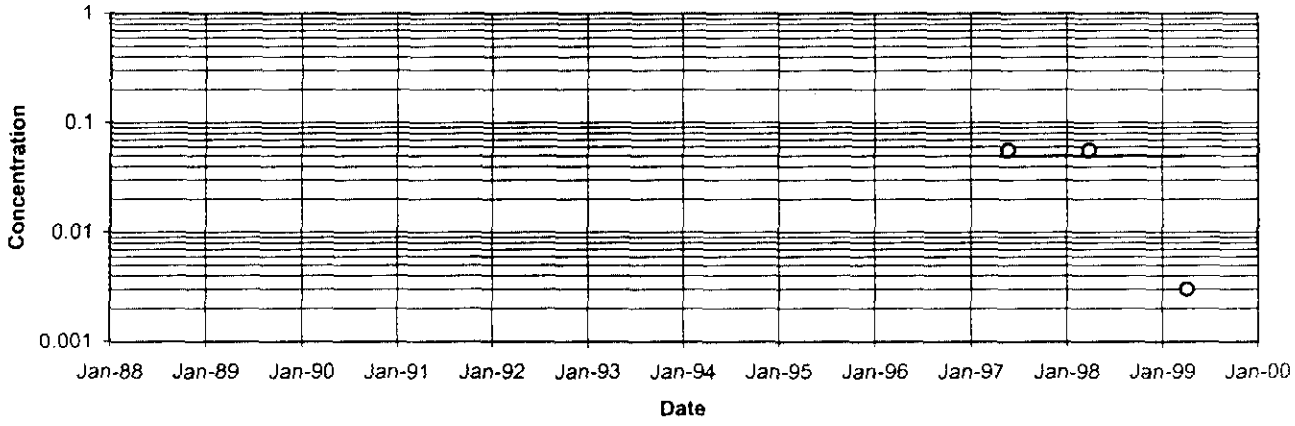
G35D



G35S



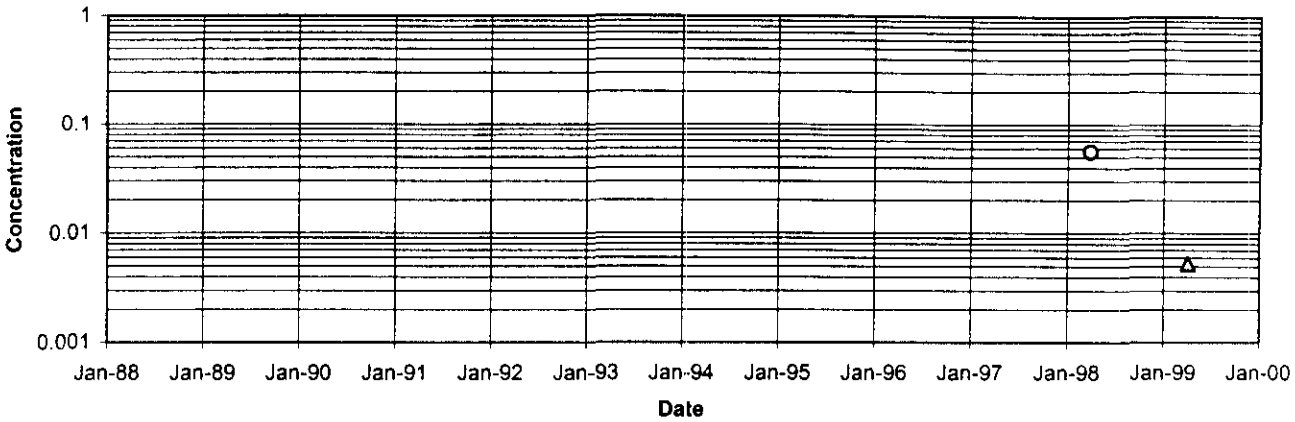
G36



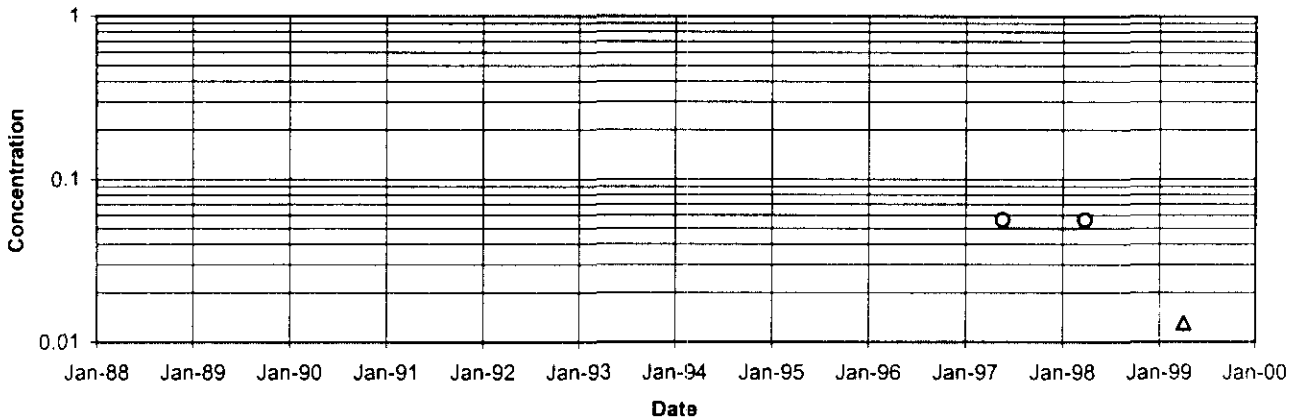
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

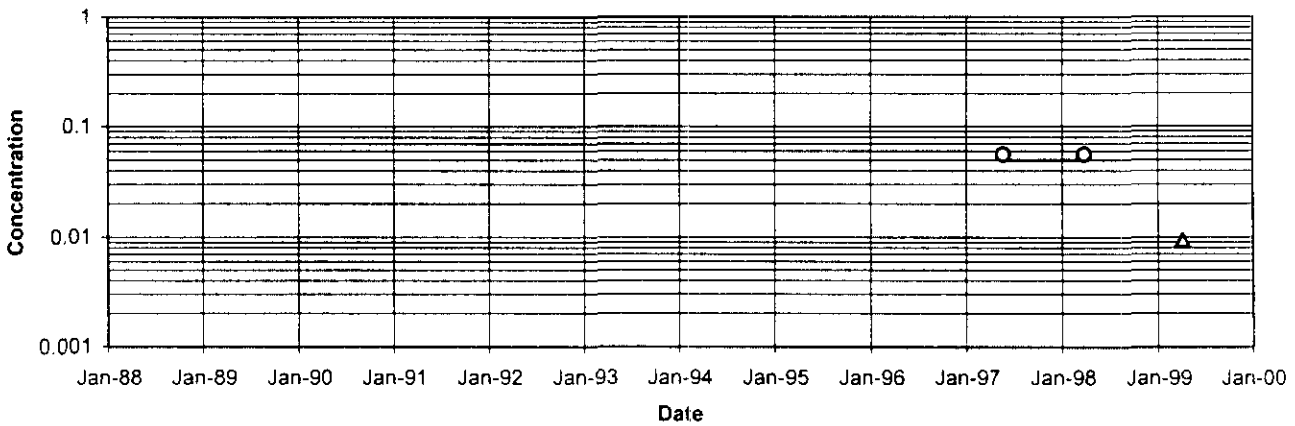
G37D



G37S



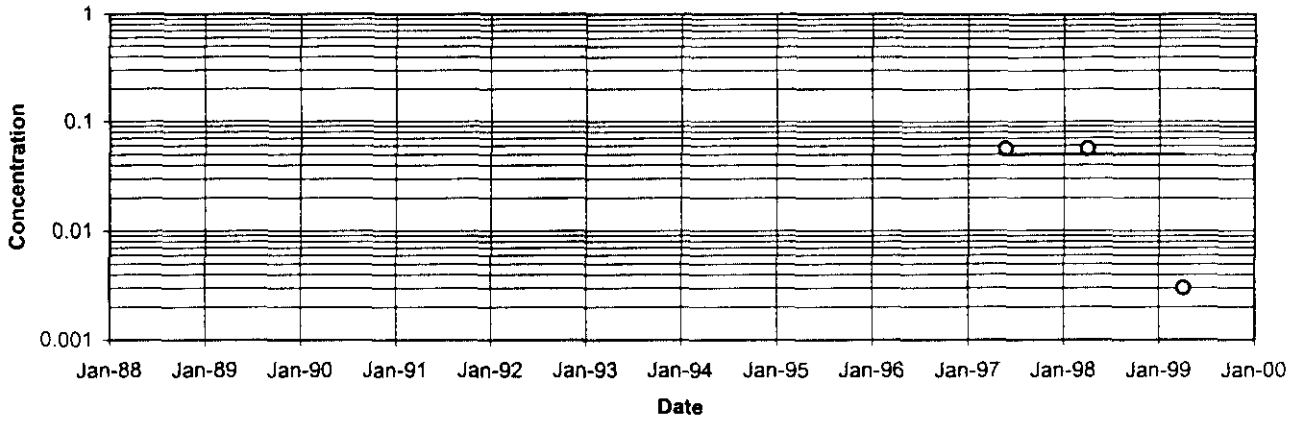
G38



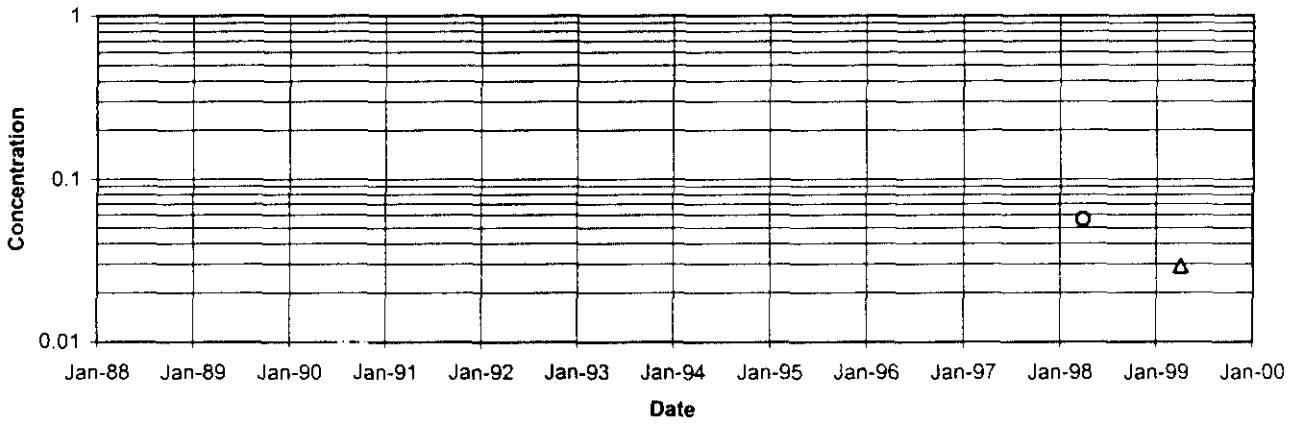
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

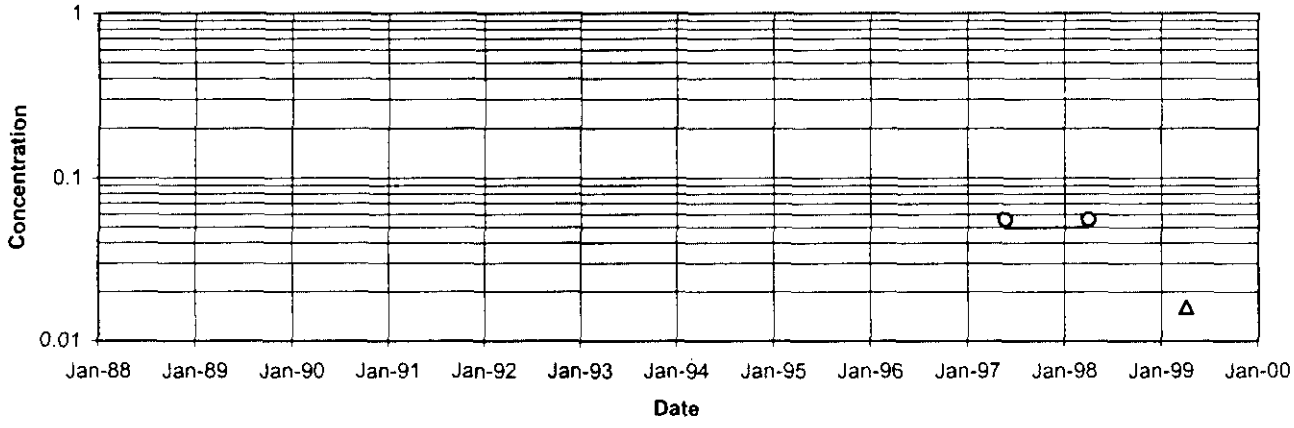
G39



G40



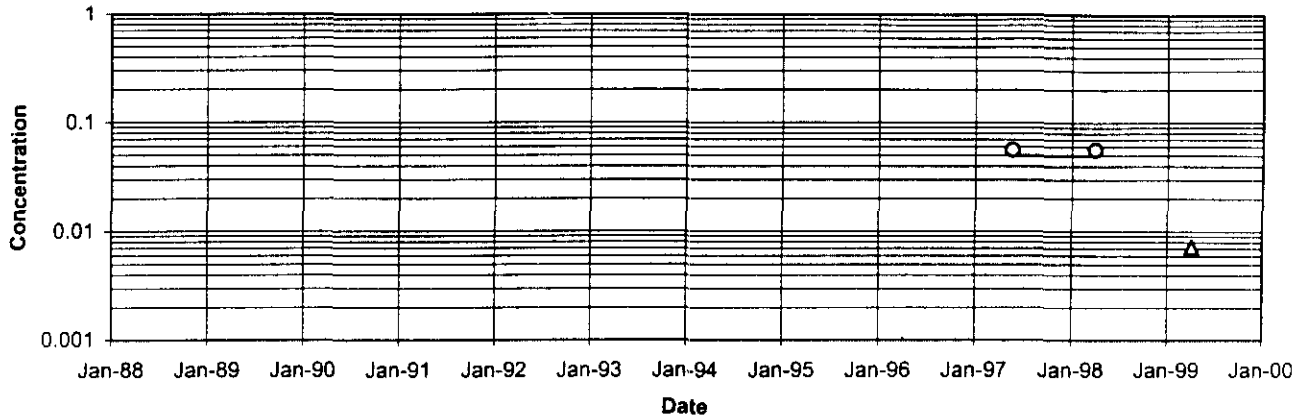
MW106



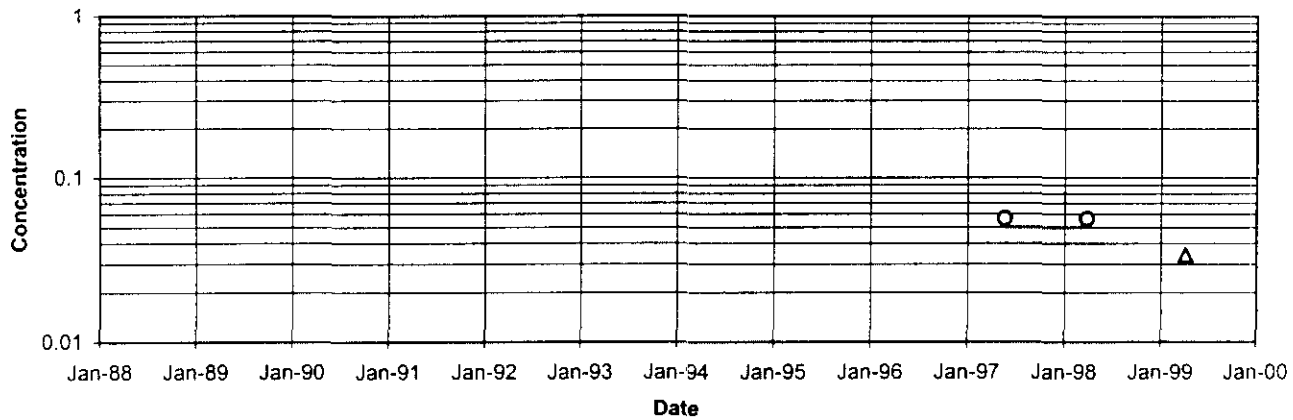
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

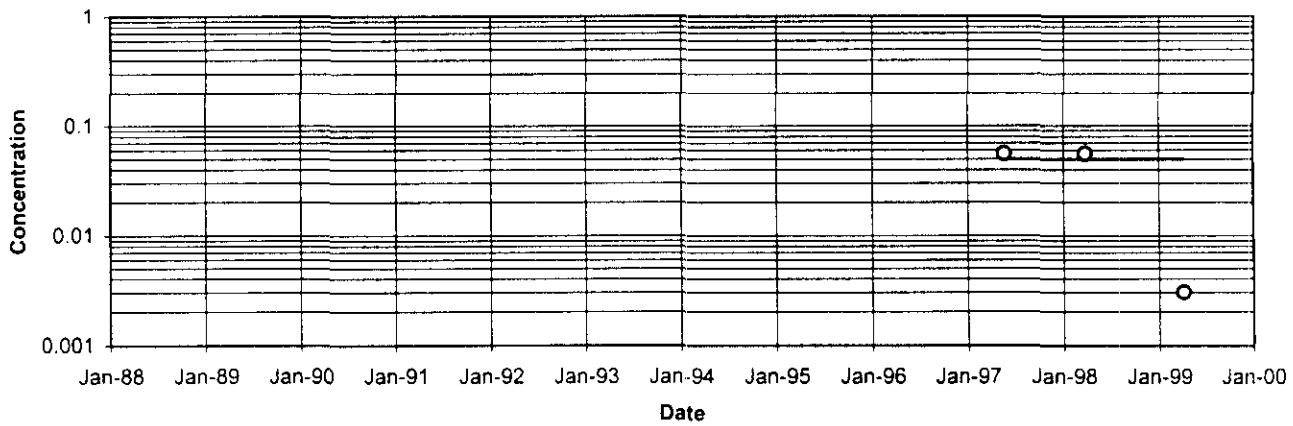
P1



P3R



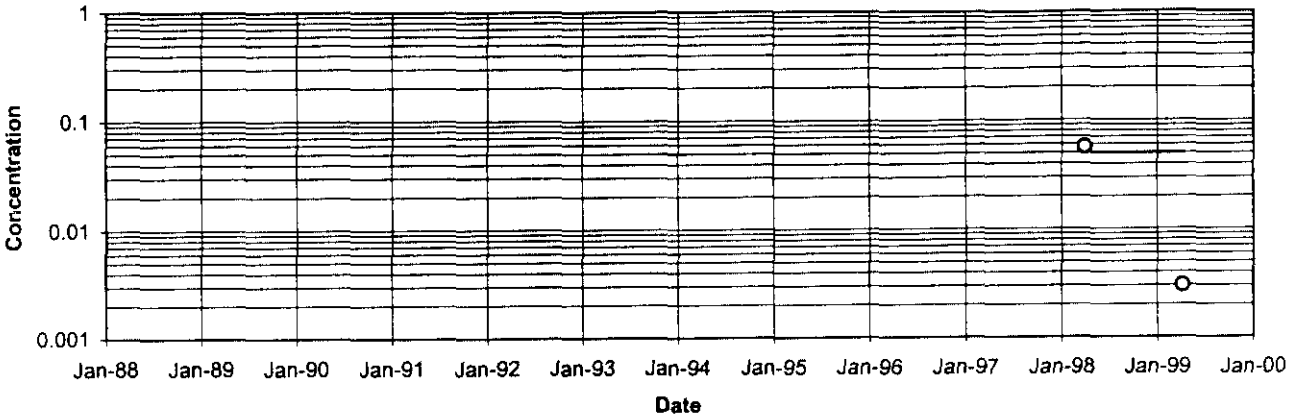
P4R



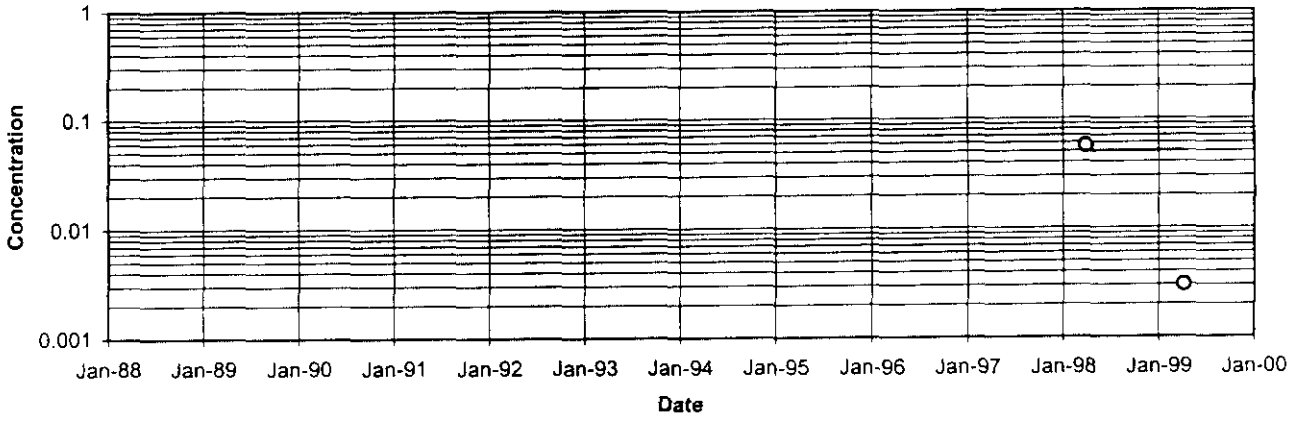
Cobalt (mg/L)

AGQS Δ Concentration O NonDetect

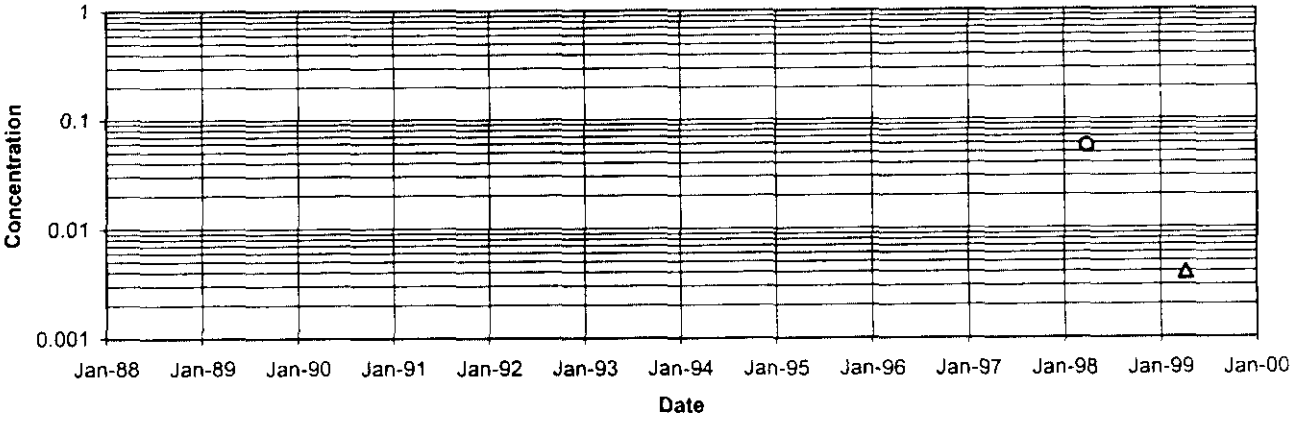
SG1



SG3



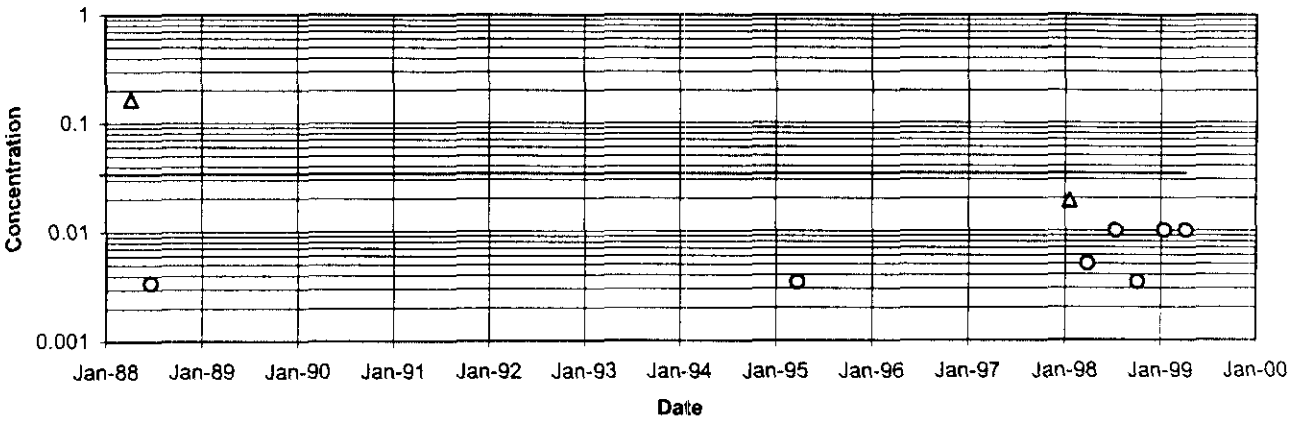
SG4



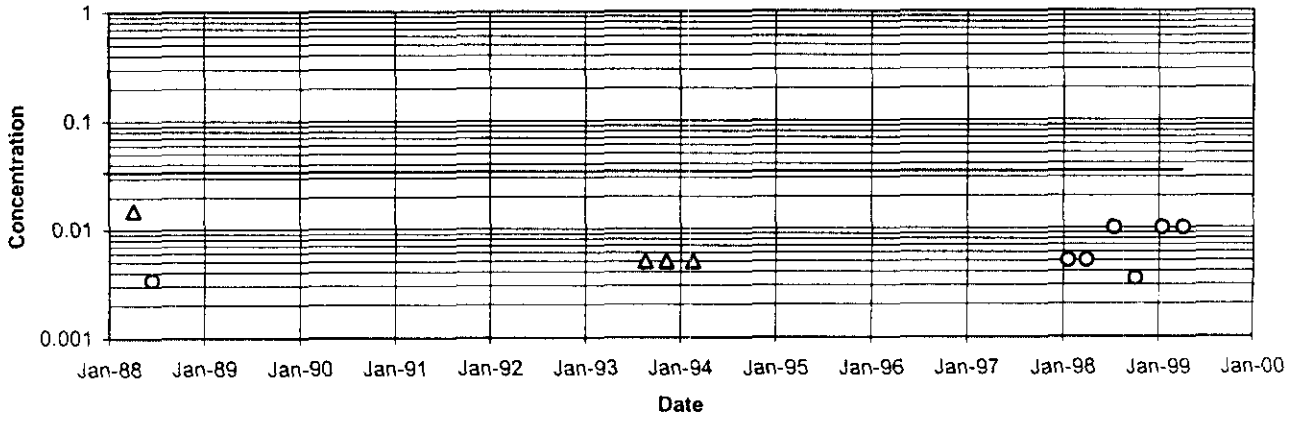
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

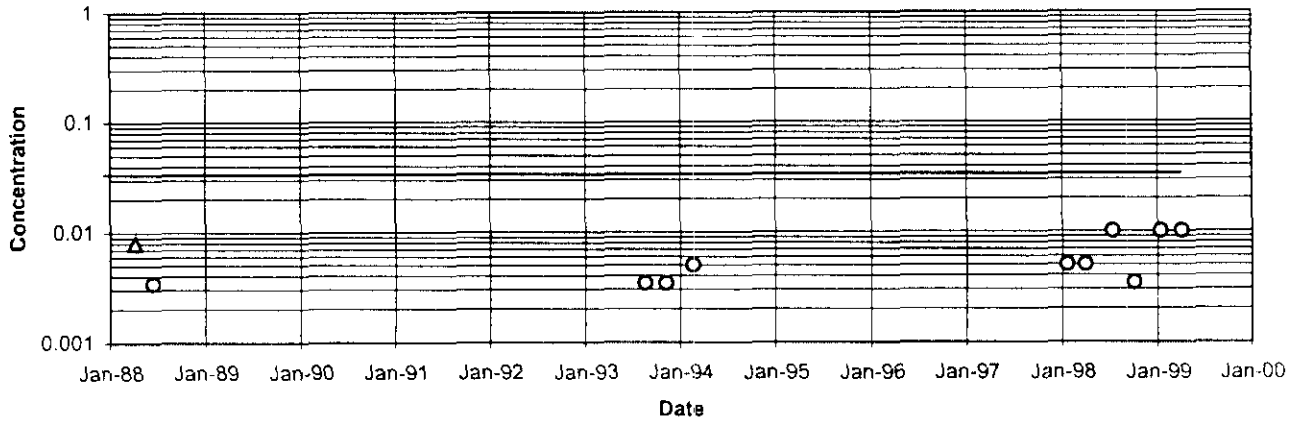
B15R



G109



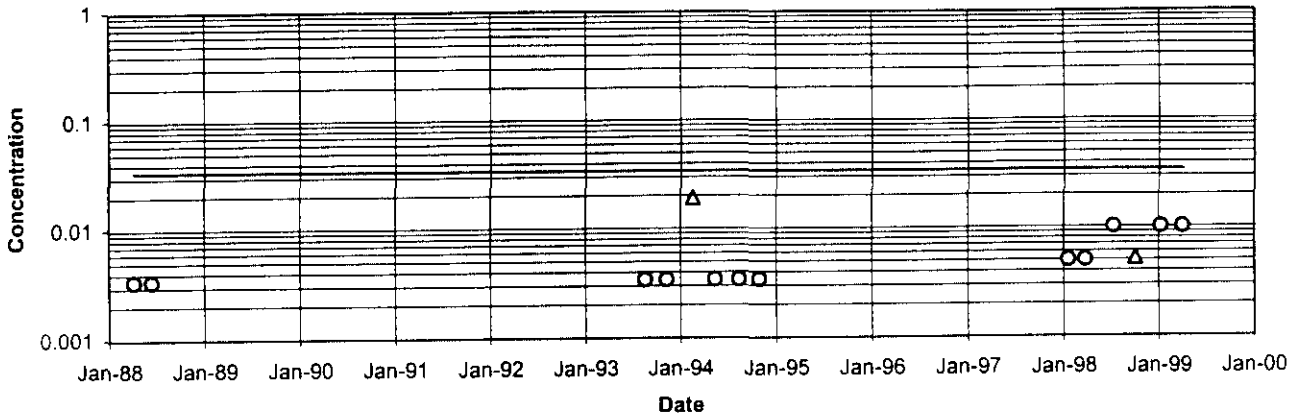
G109A



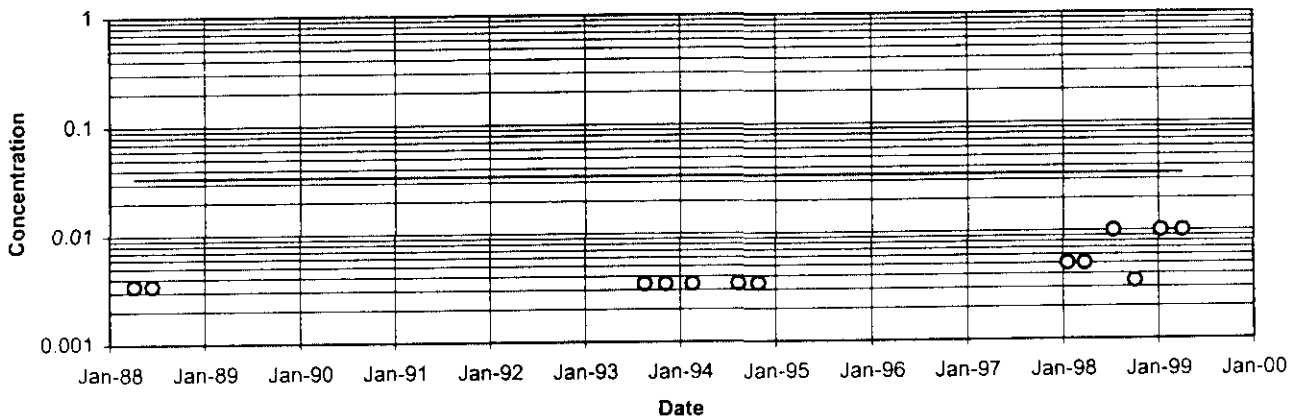
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

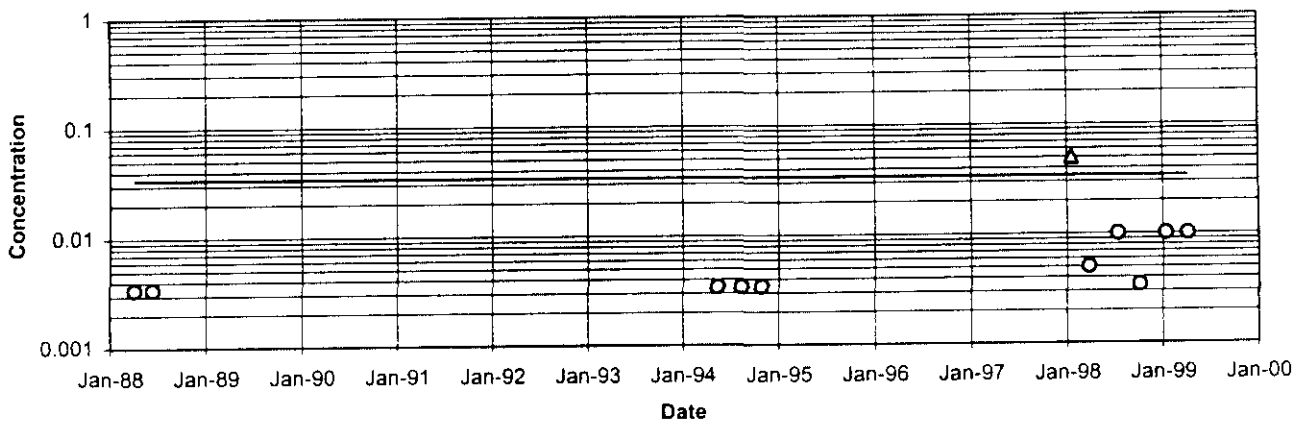
G113



G113A



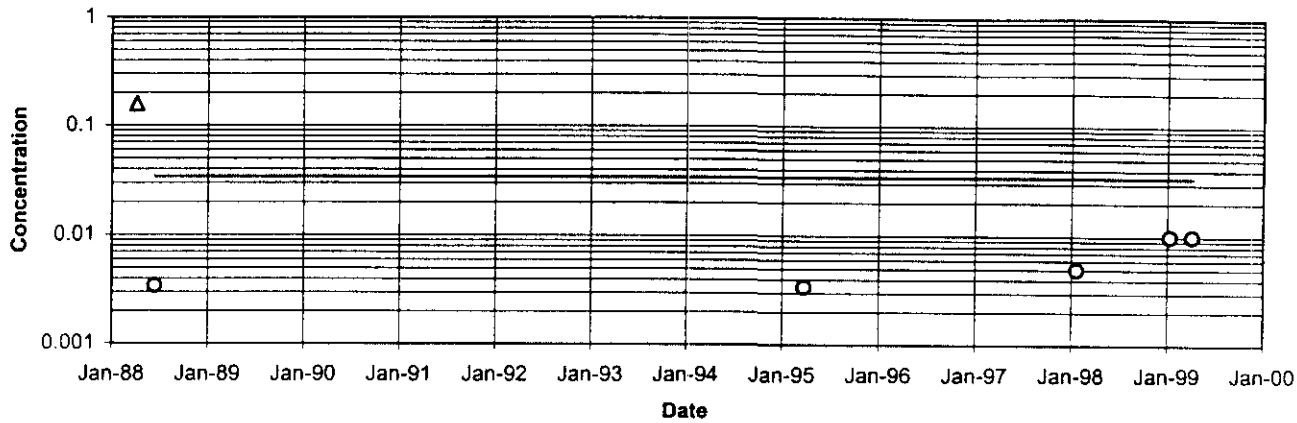
G114



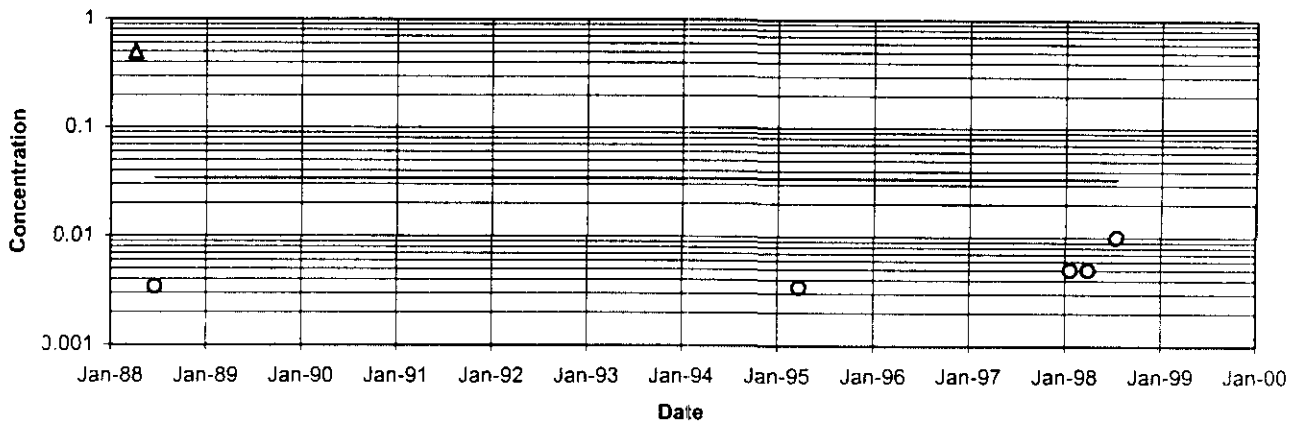
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

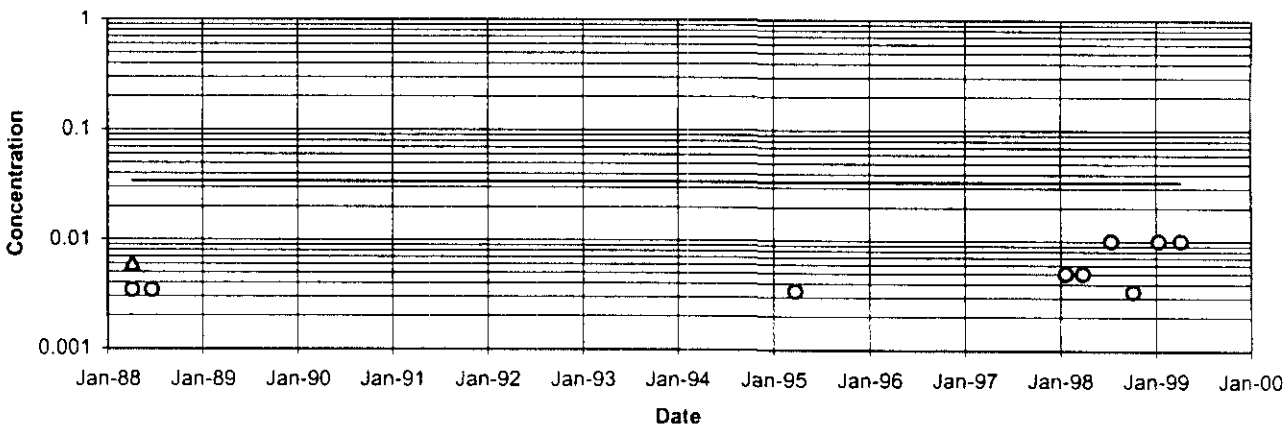
G115



G116



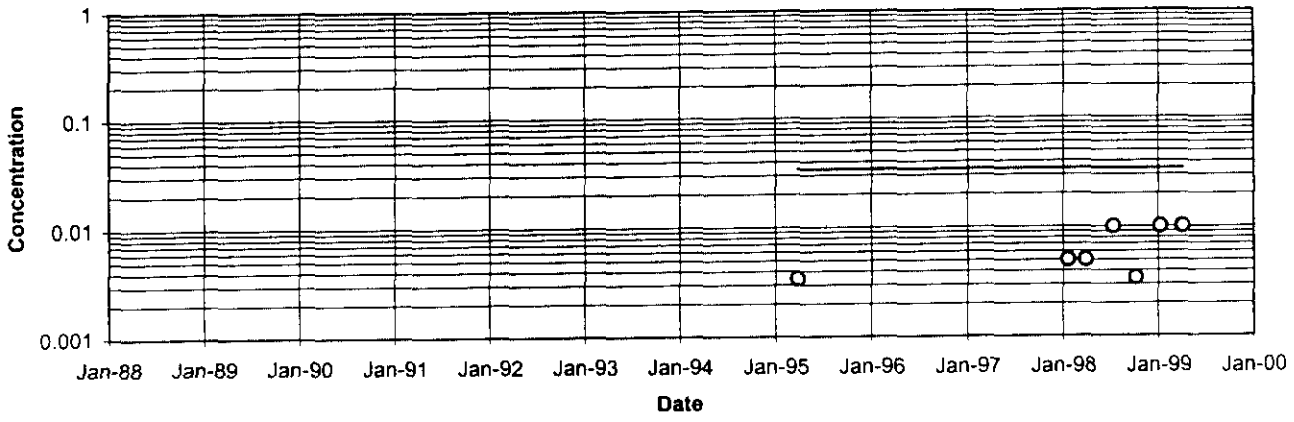
G116A



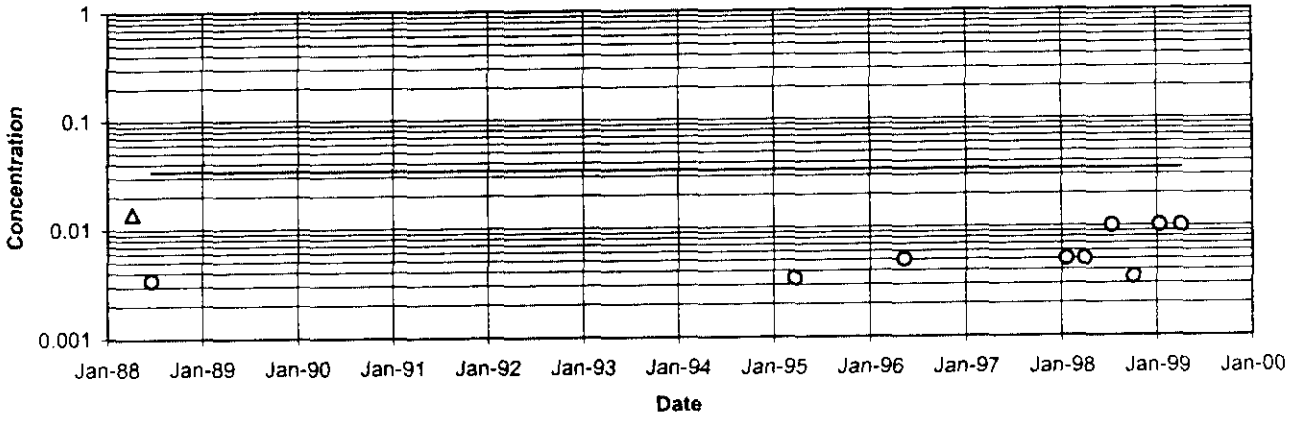
Cyanide (total) (mg/L)

AGQS Δ Concentration ○ NonDetect

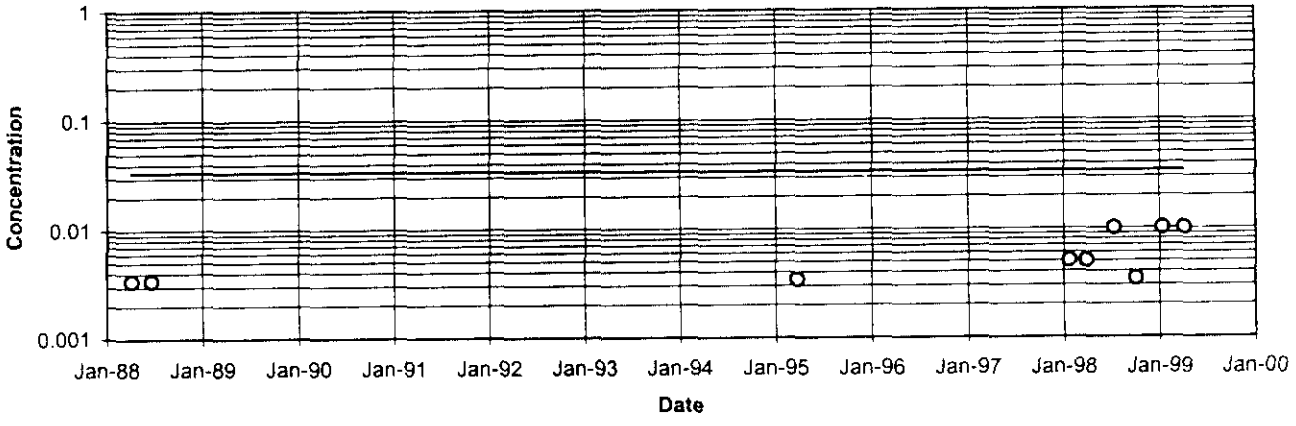
G116D



G117



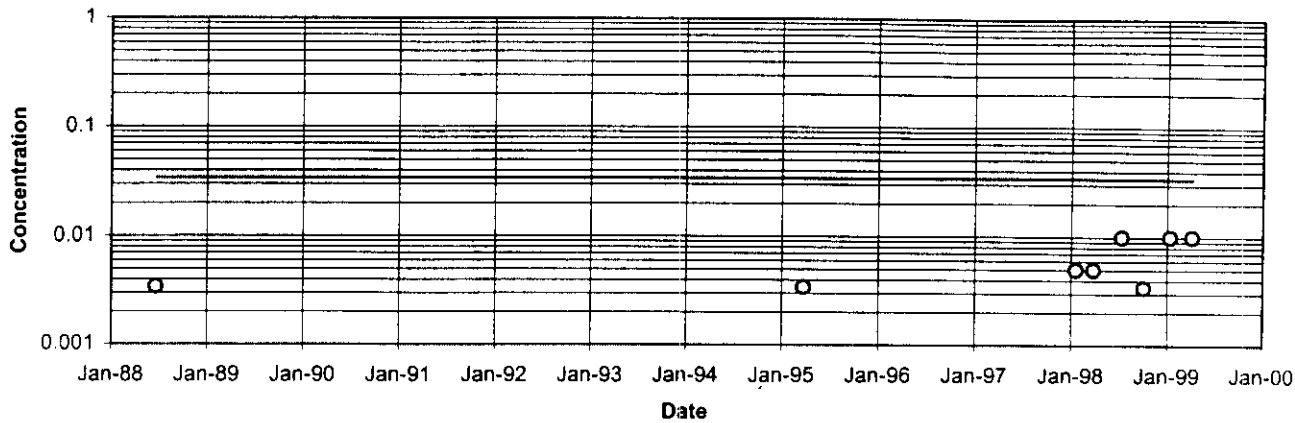
G118A



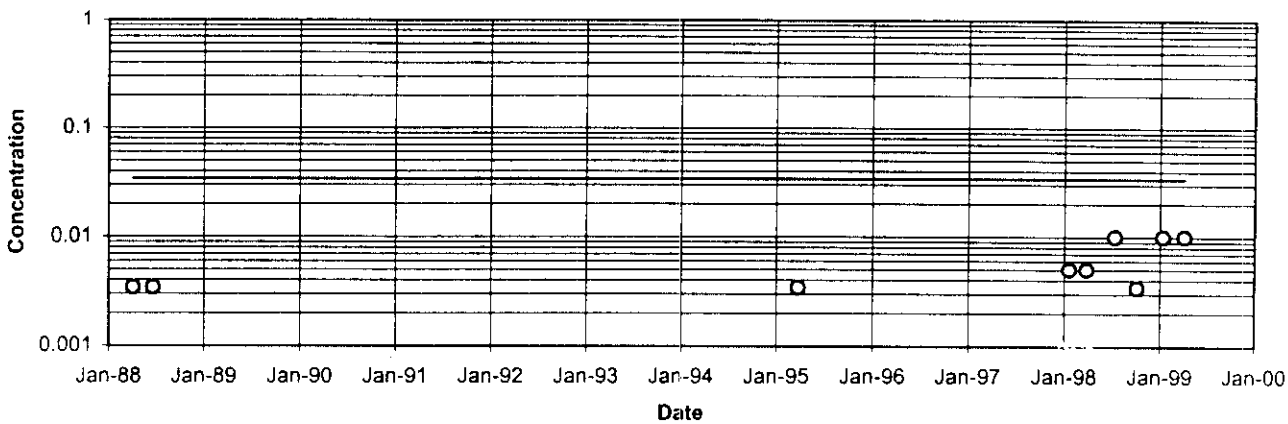
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

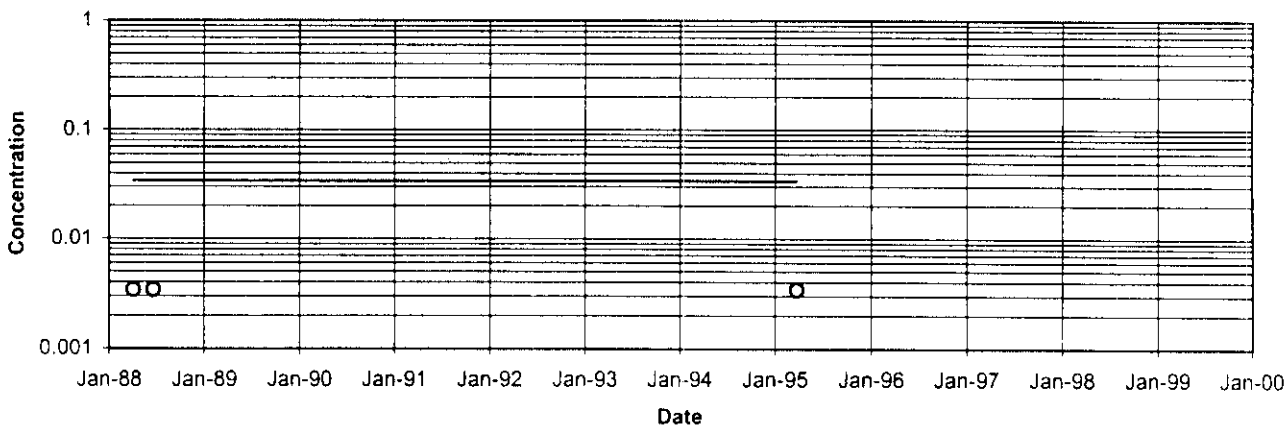
G118R



G119



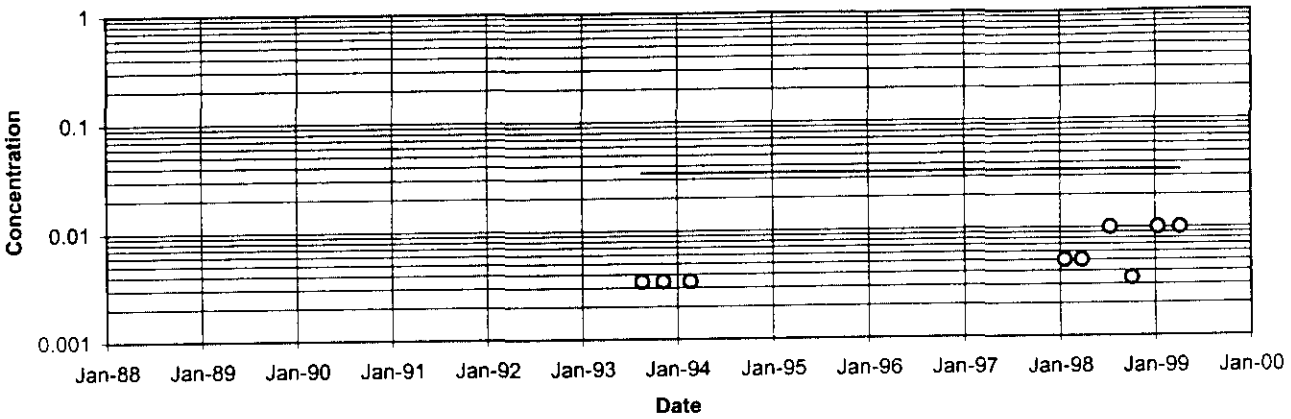
G119A



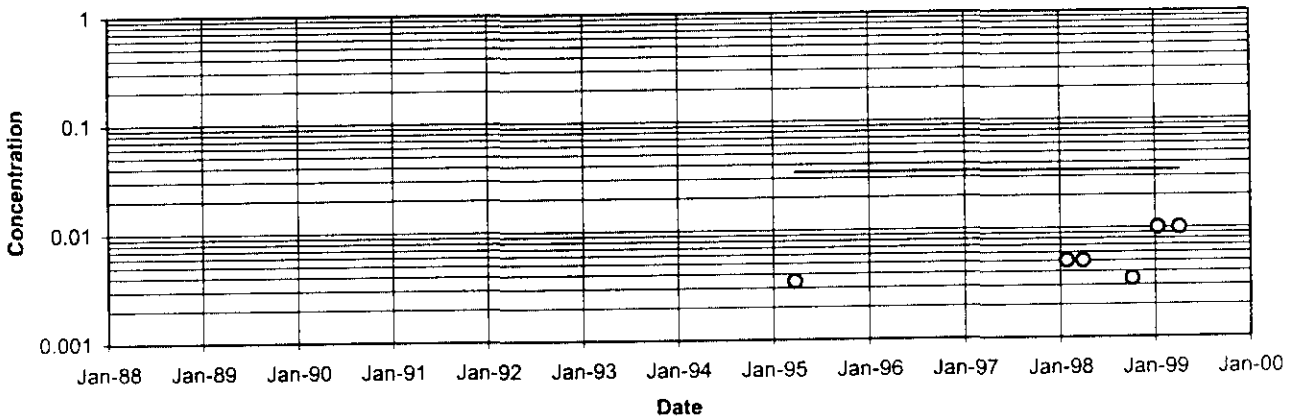
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

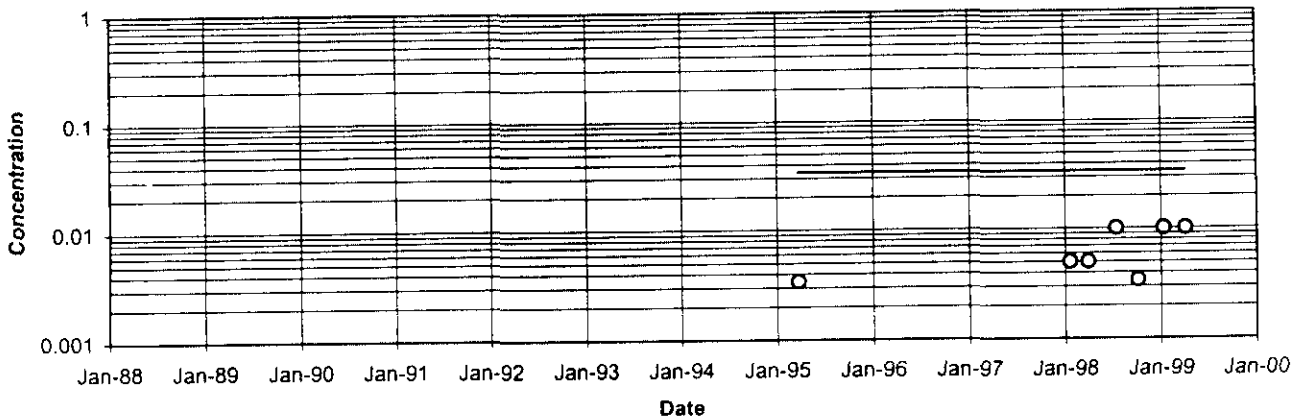
G120B



G130



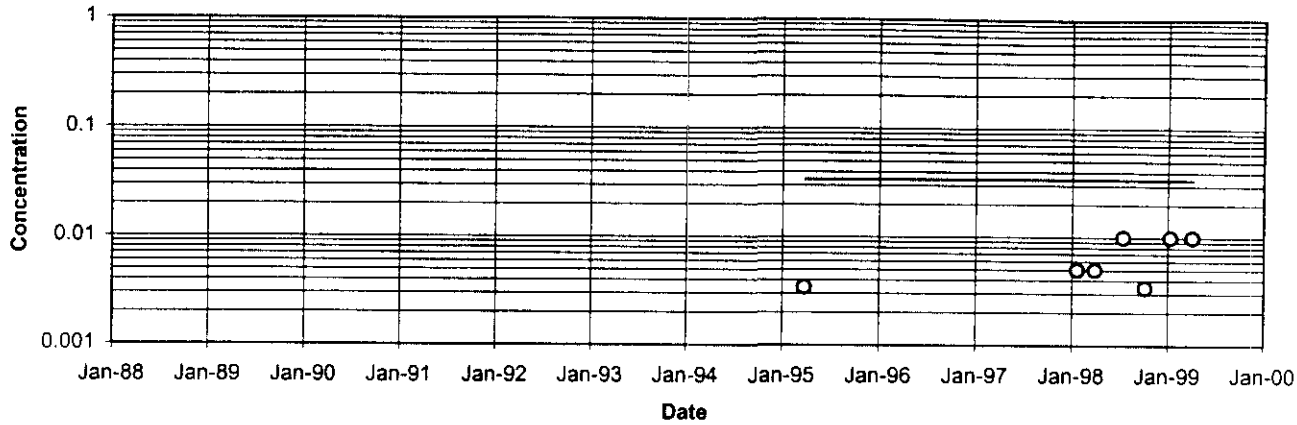
G132



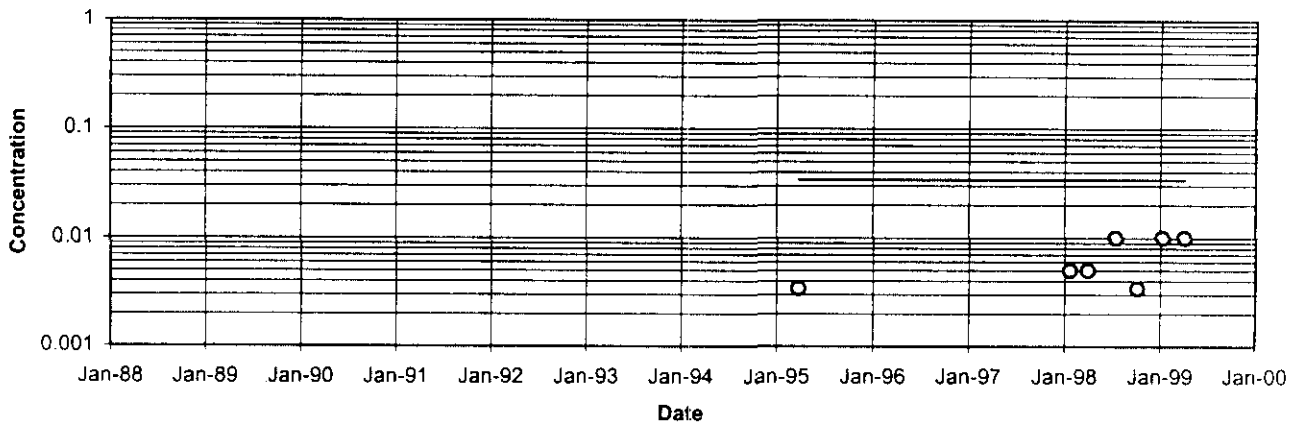
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

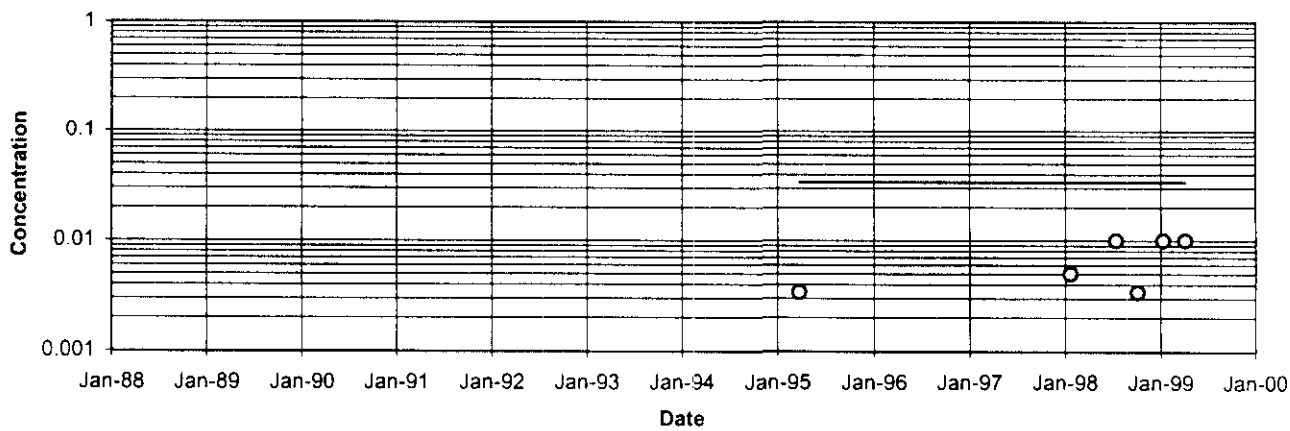
G33D



G33S



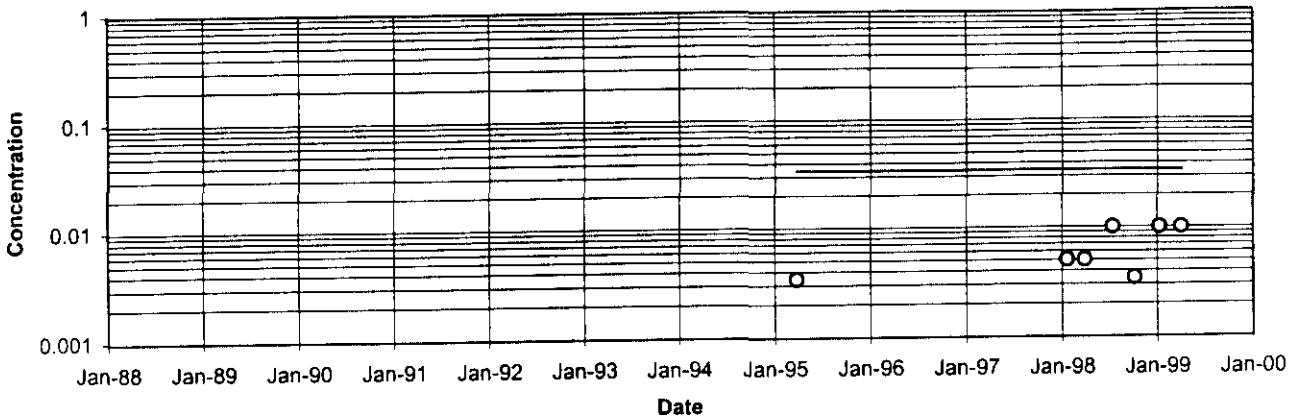
G34D



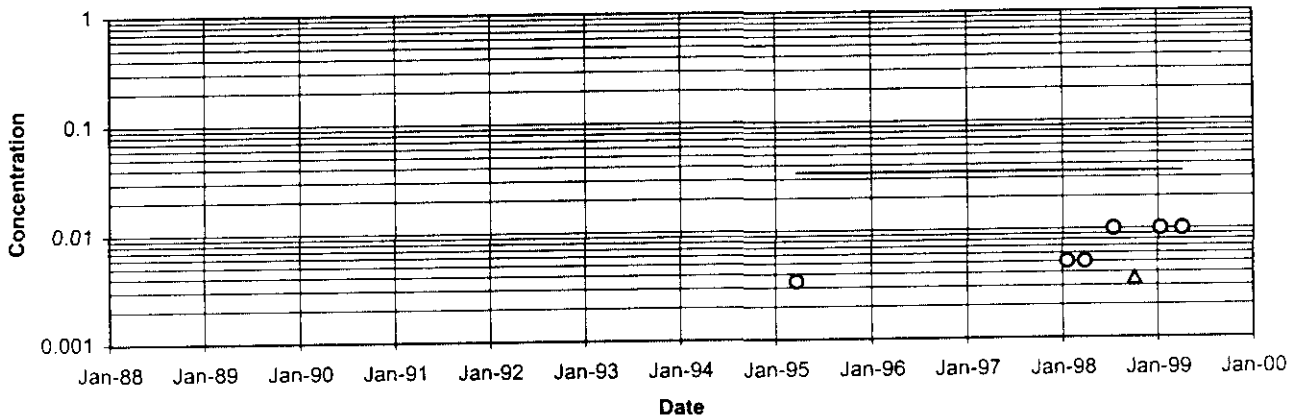
Cyanide (total) (mg/L)

AGQS Δ Concentration ○ NonDetect

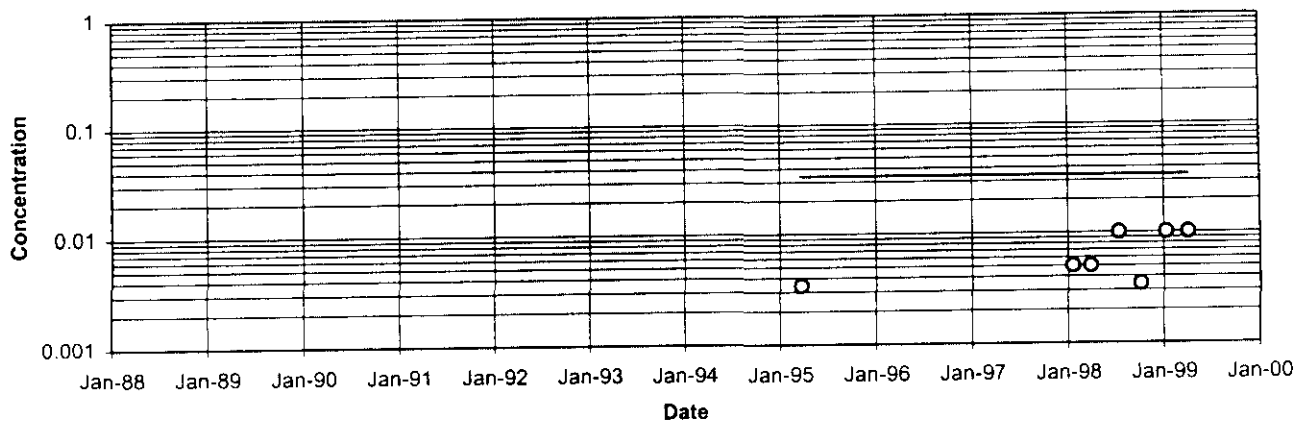
G34S



G35D



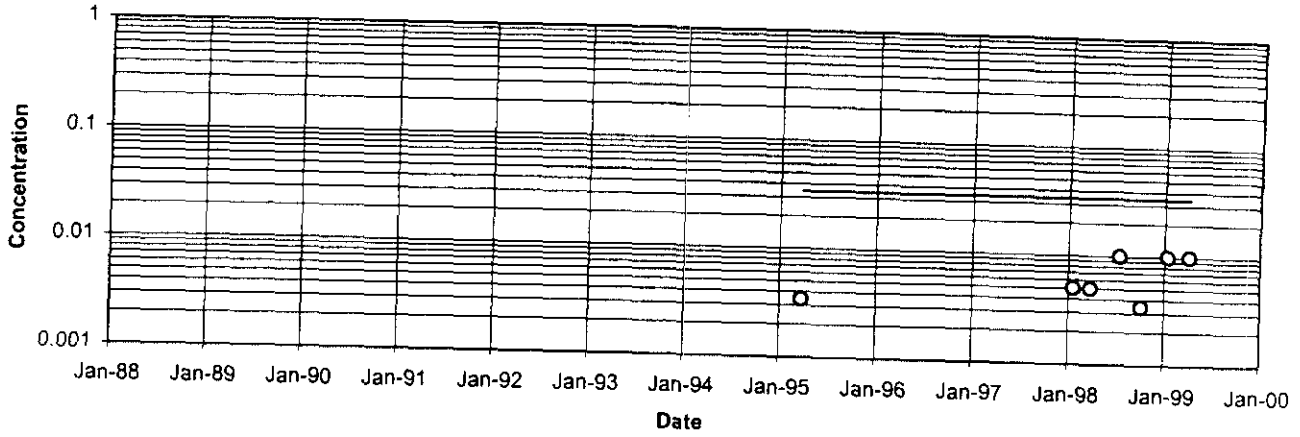
G35S



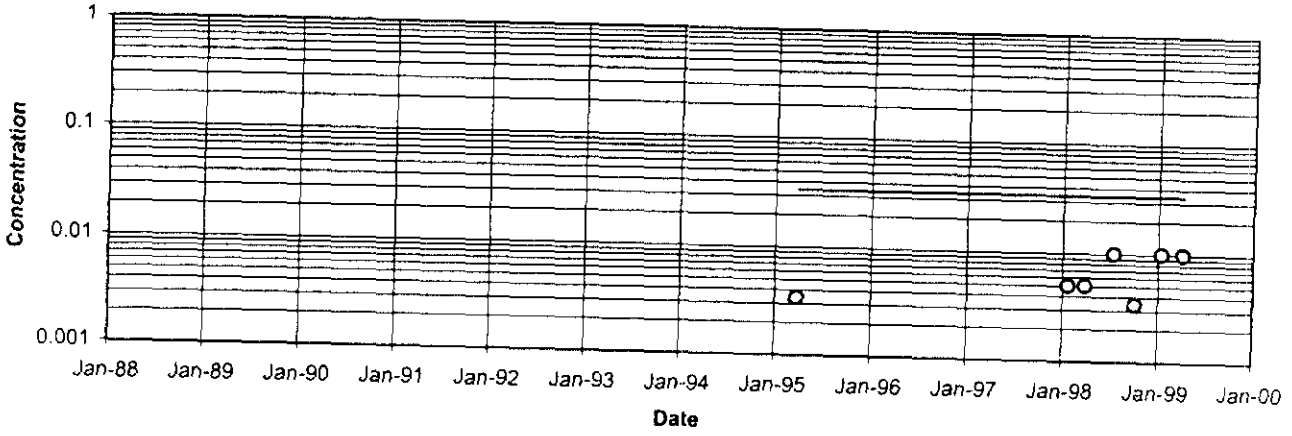
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

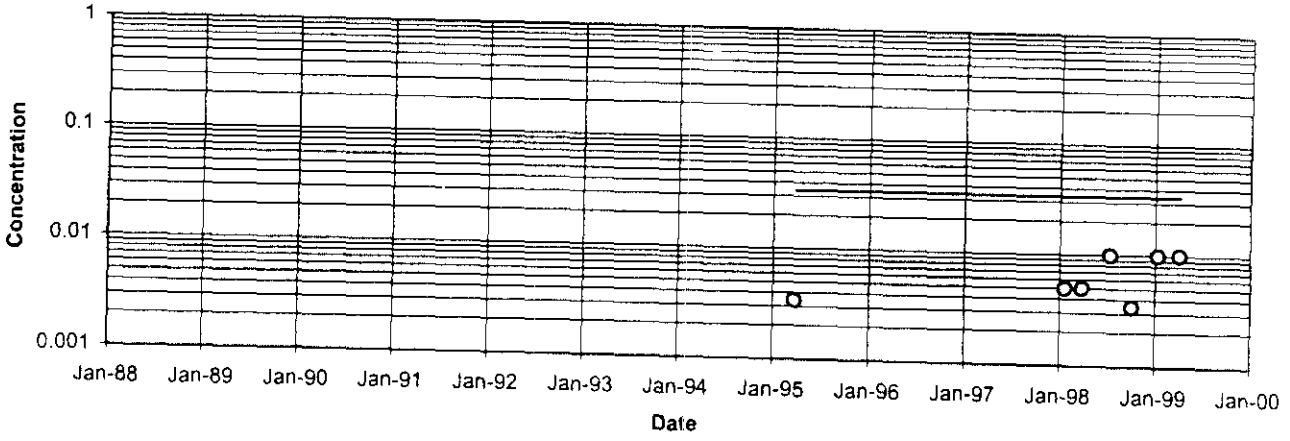
G36



G37D



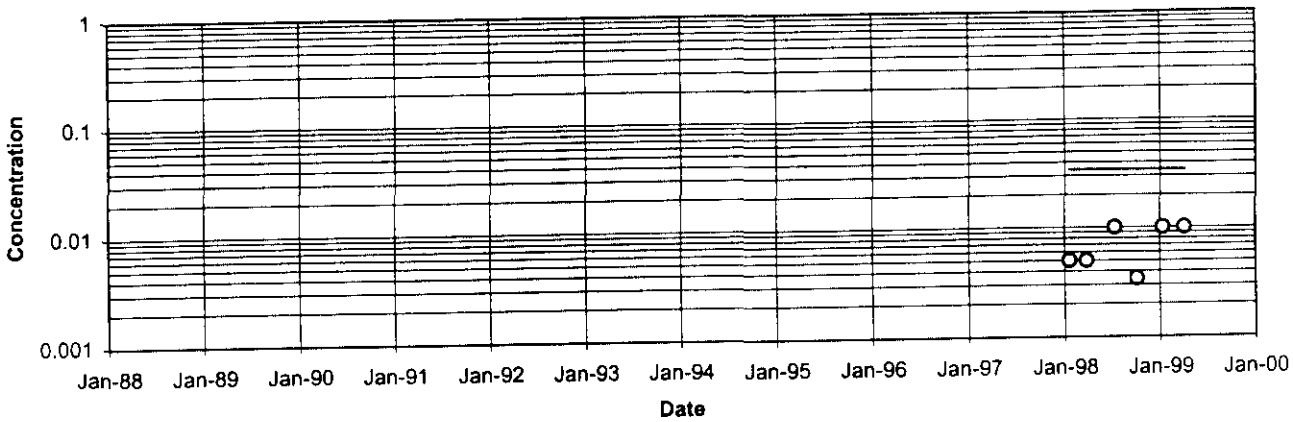
G37S



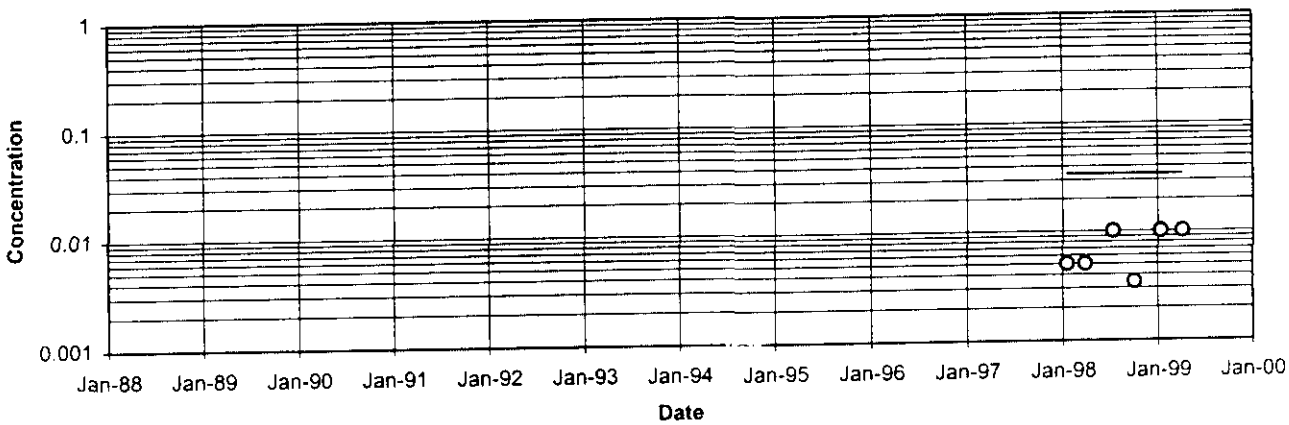
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

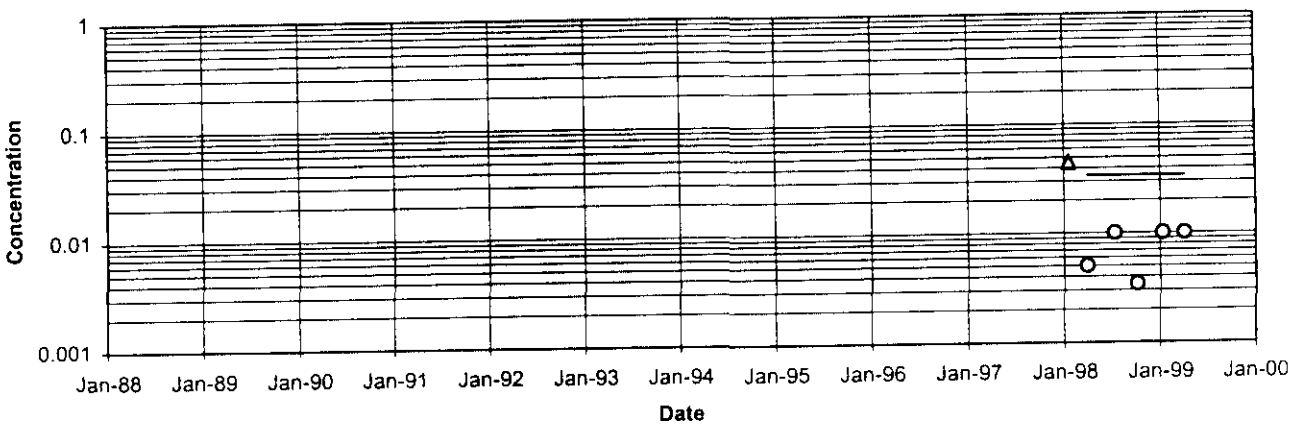
G38



G39



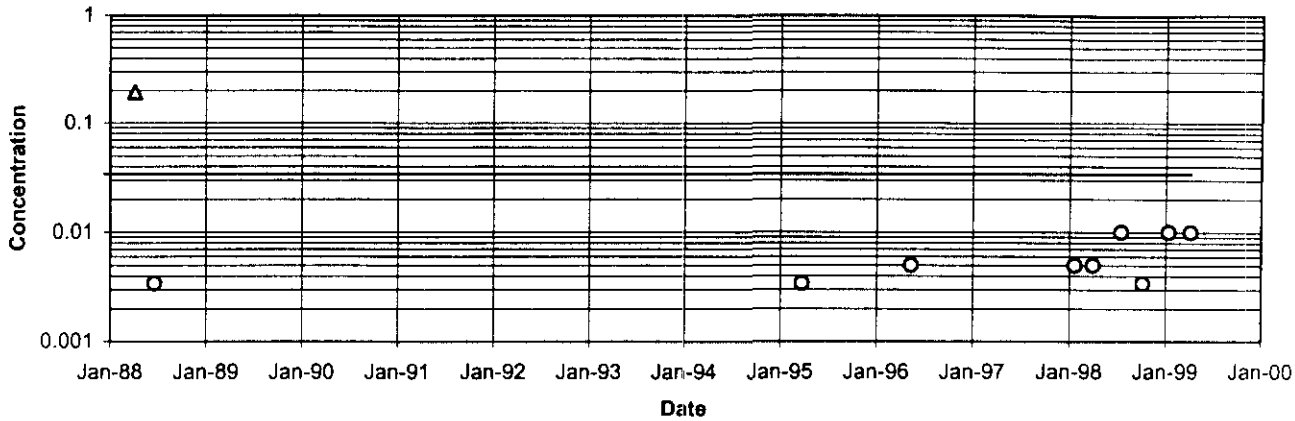
G40



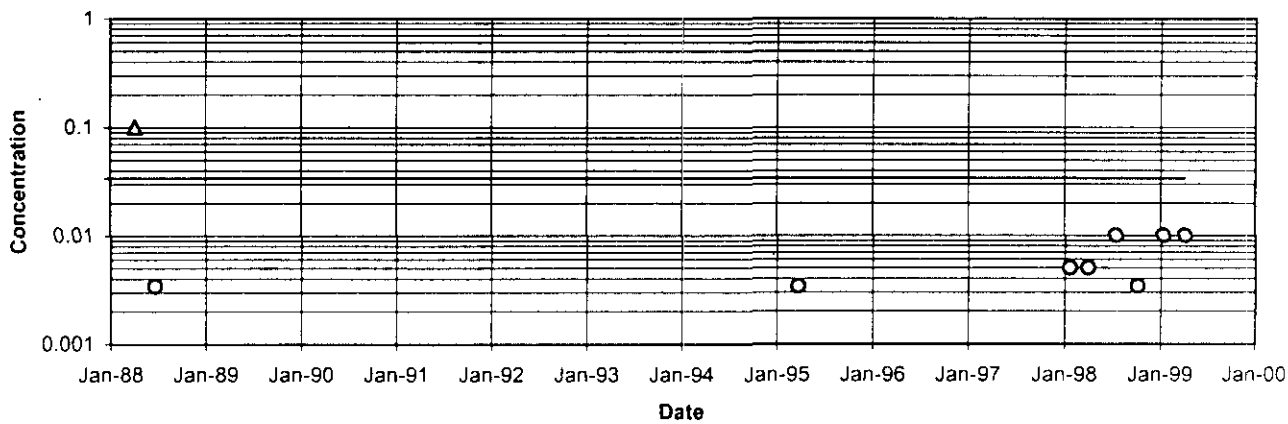
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

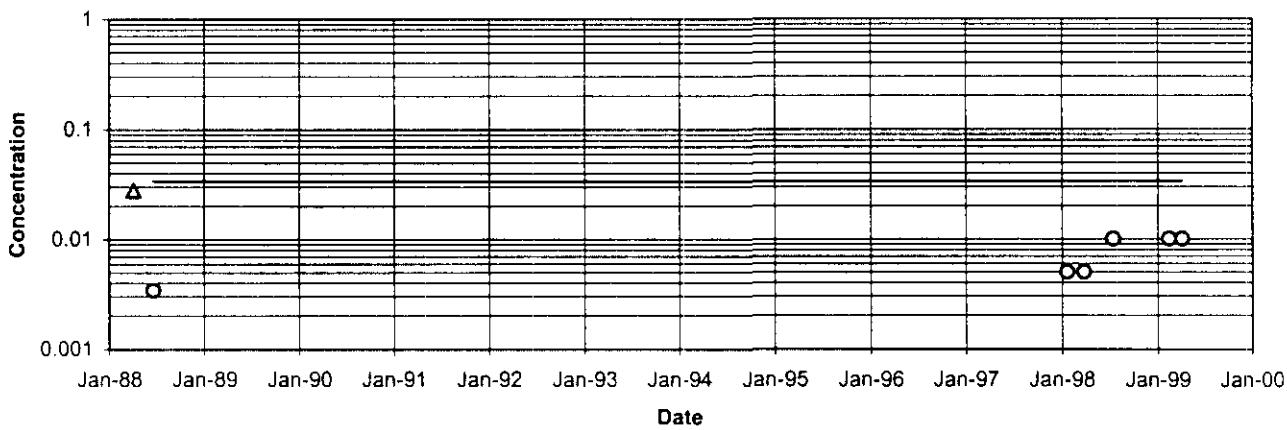
MW106



P1



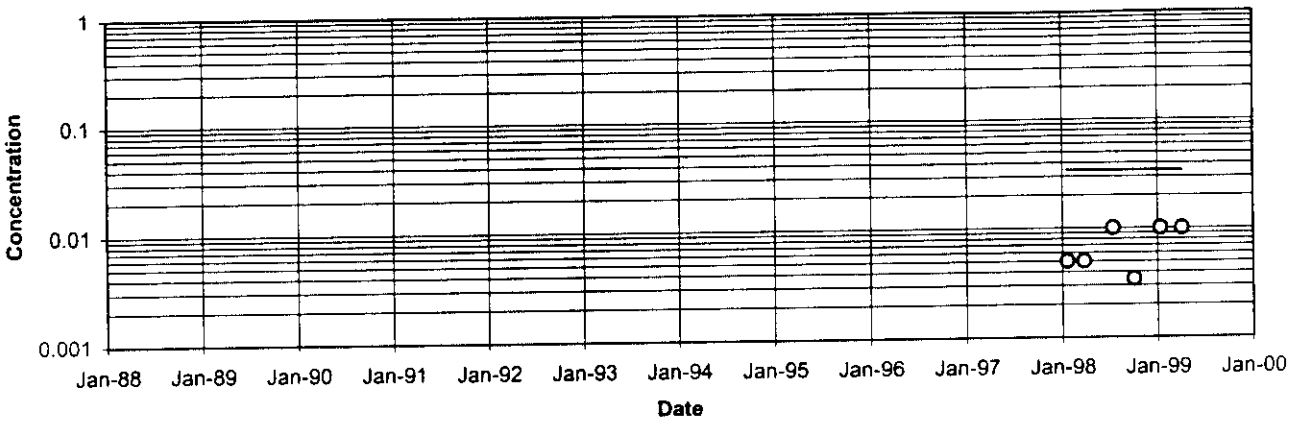
P3R



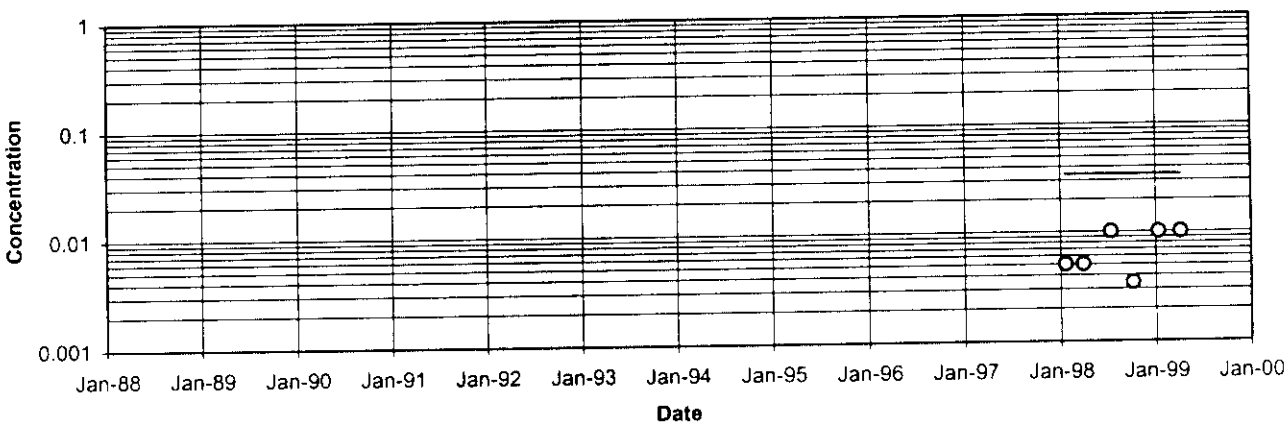
Cyanide (total) (mg/L)

AGQS Δ Concentration O NonDetect

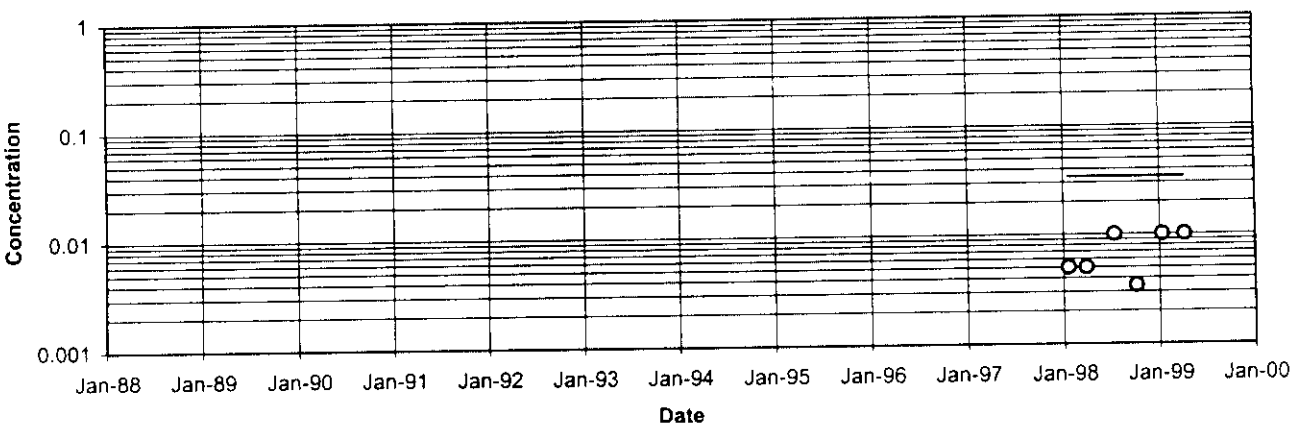
P4R



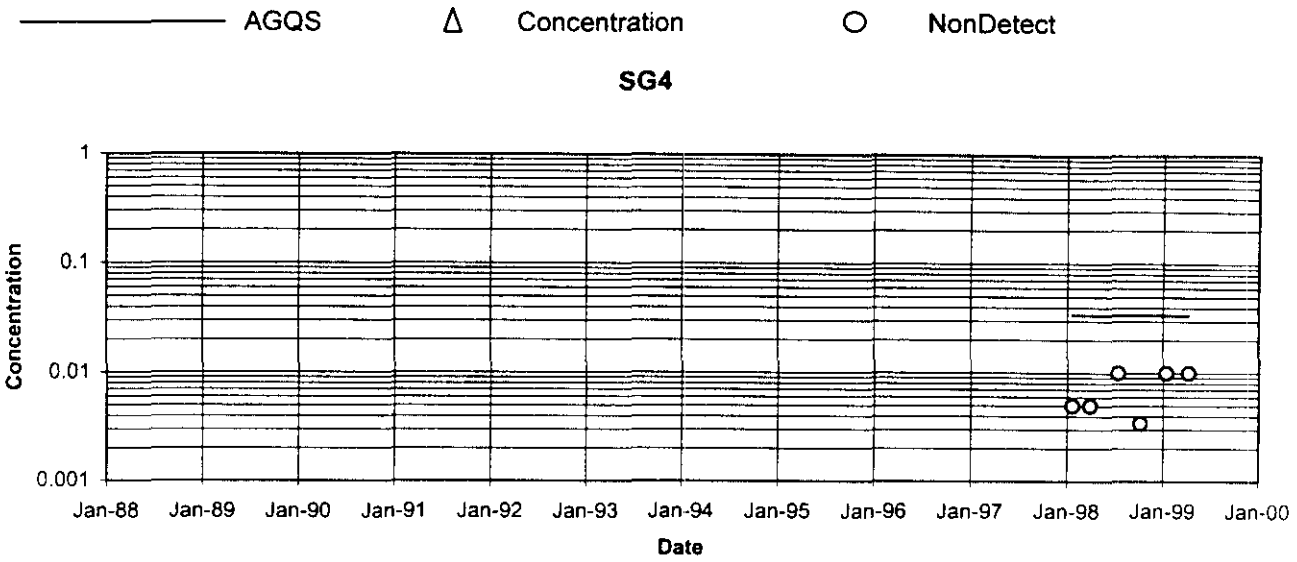
SG1



SG3



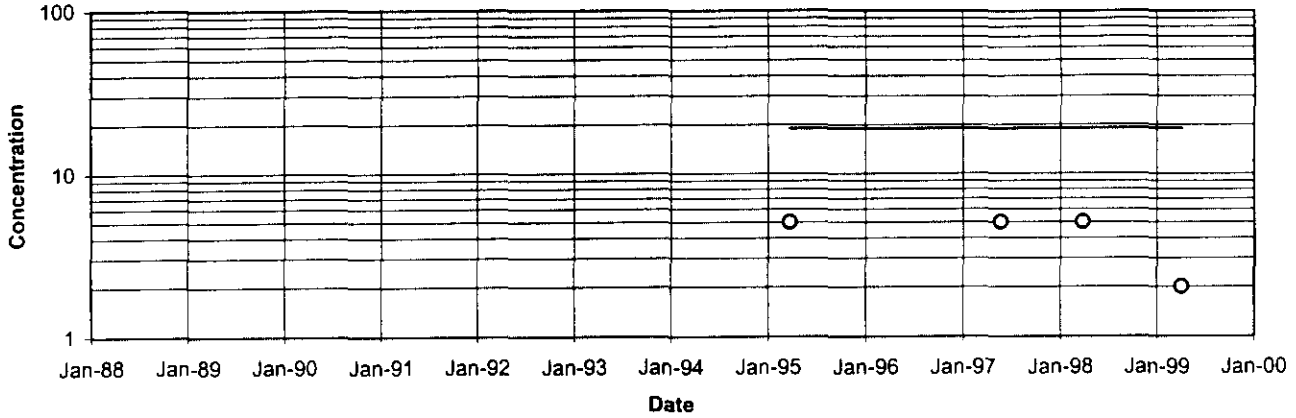
Cyanide (total) (mg/L)



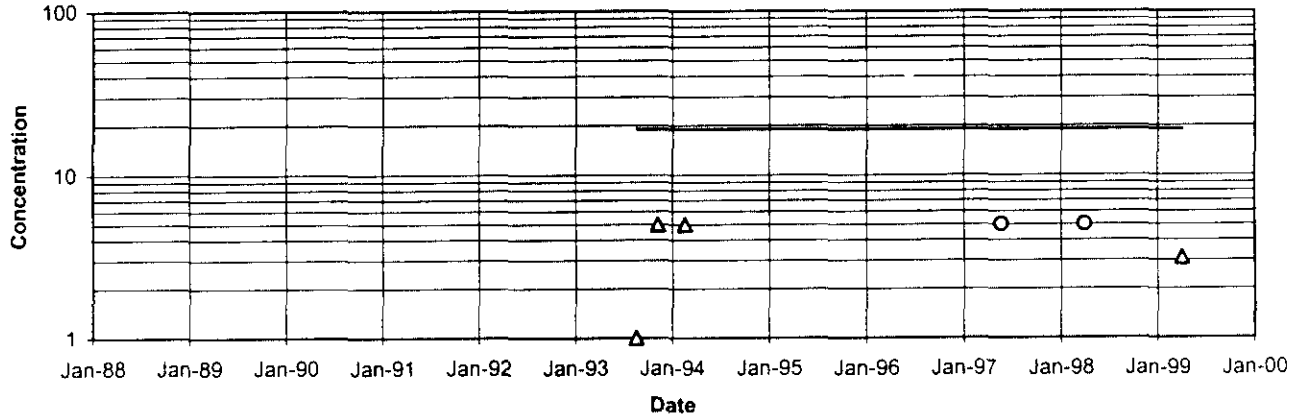
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

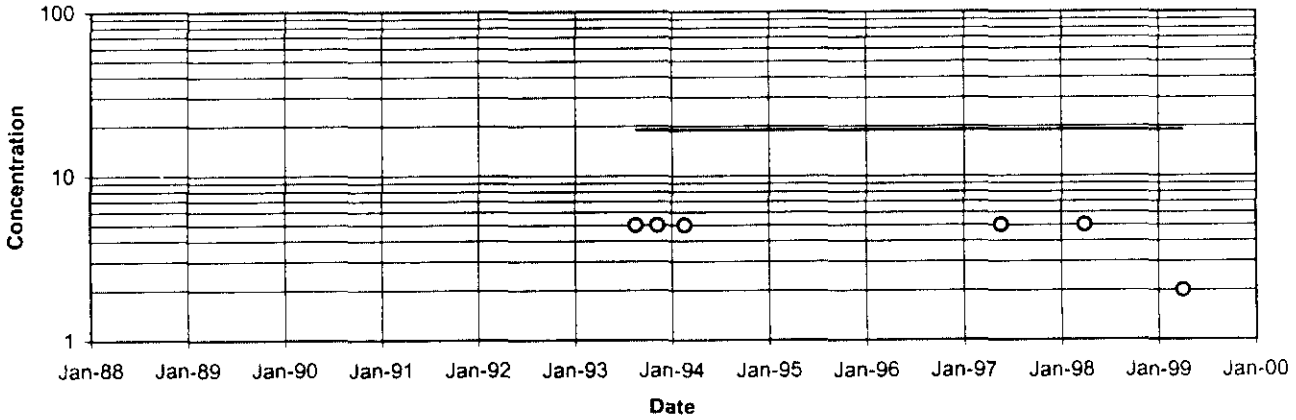
B15R



G109



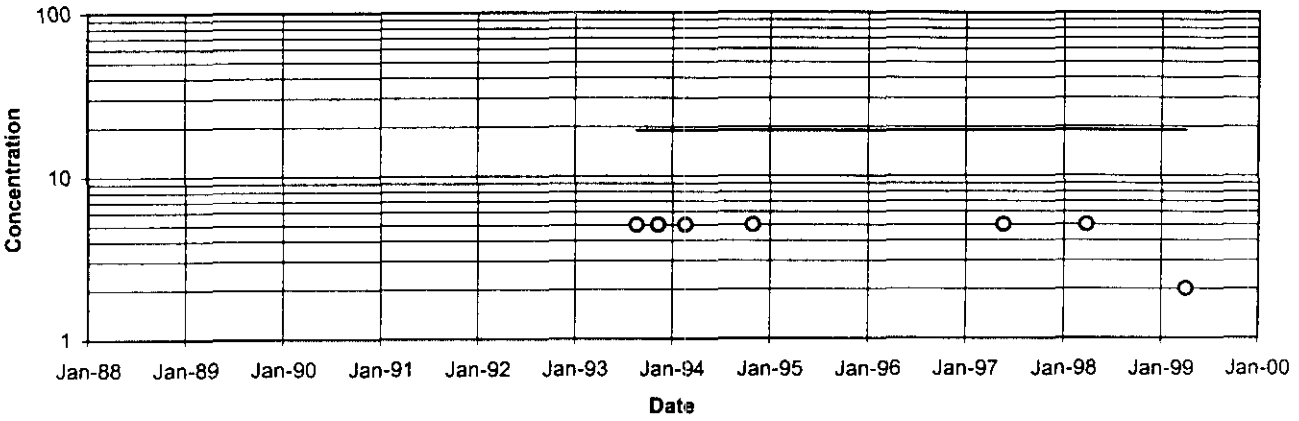
G109A



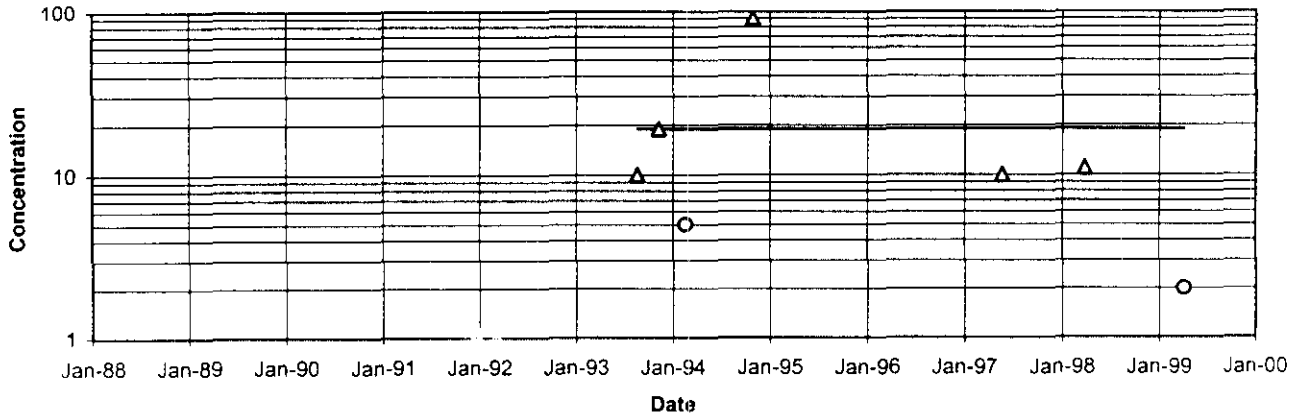
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

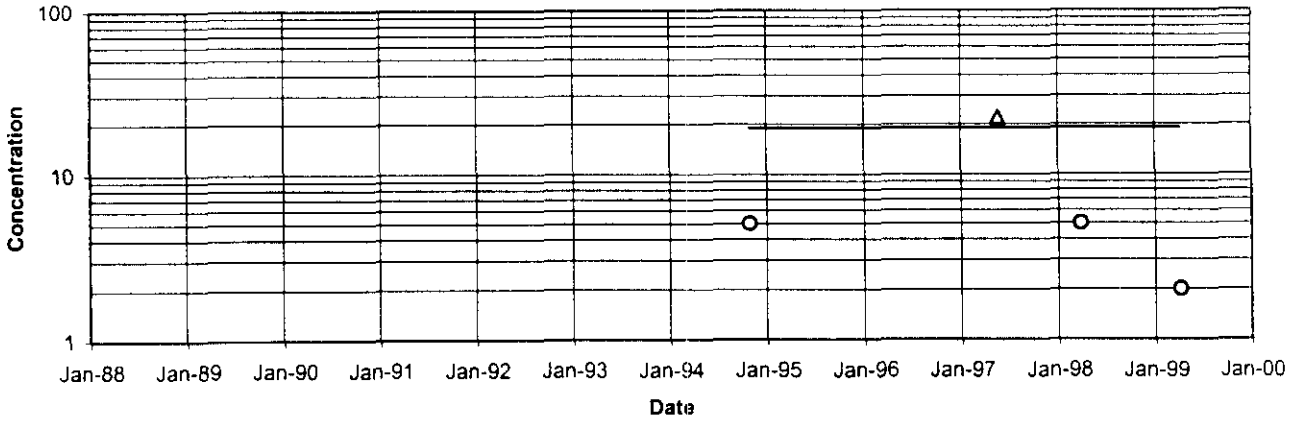
G113



G113A



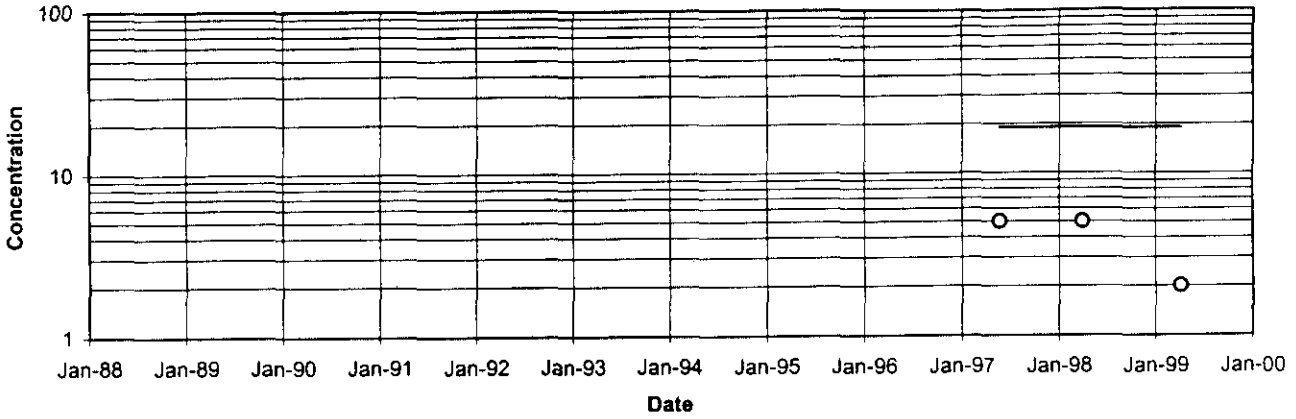
G114



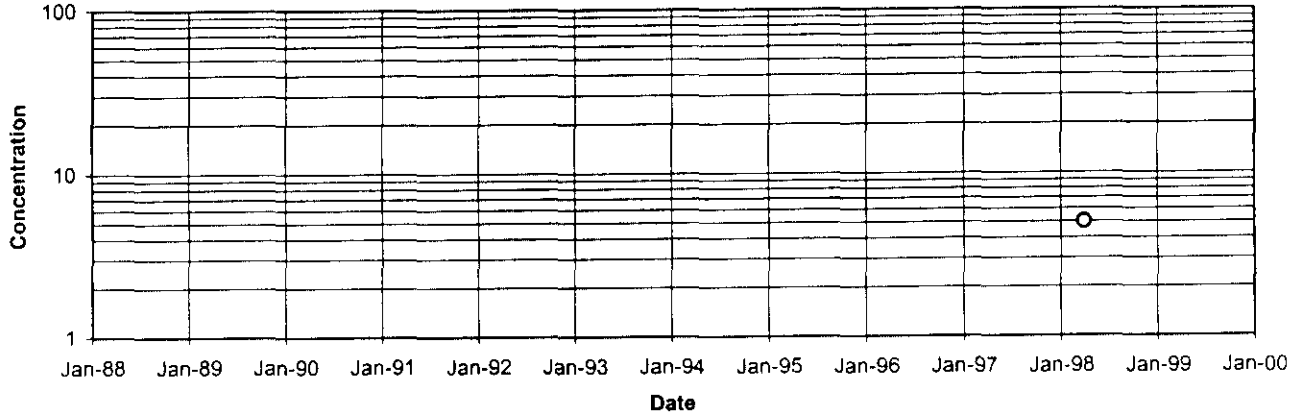
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

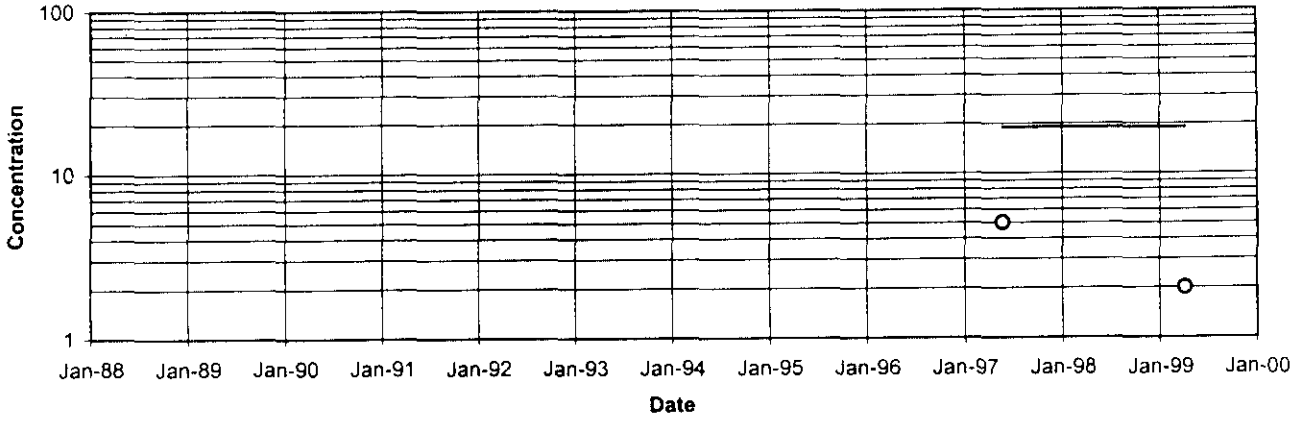
G115



G116



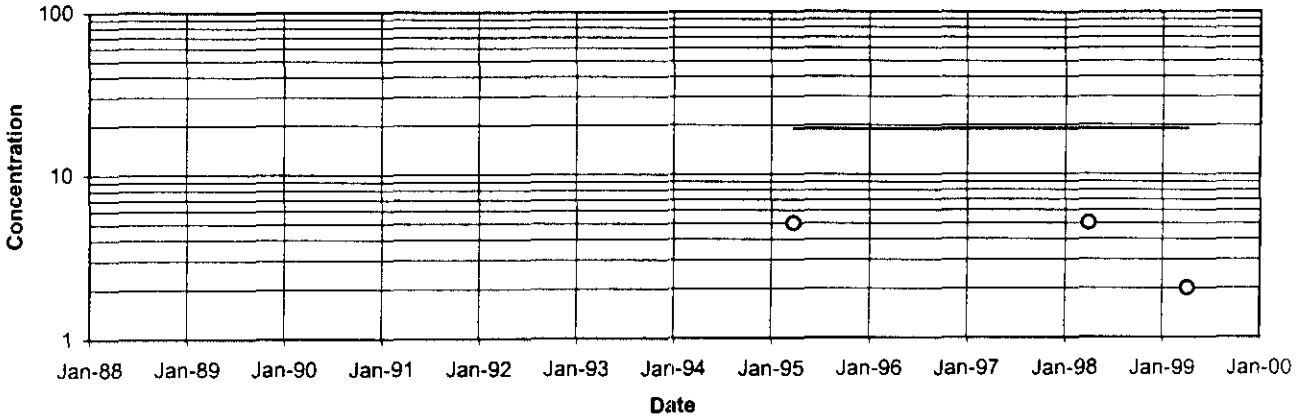
G116A



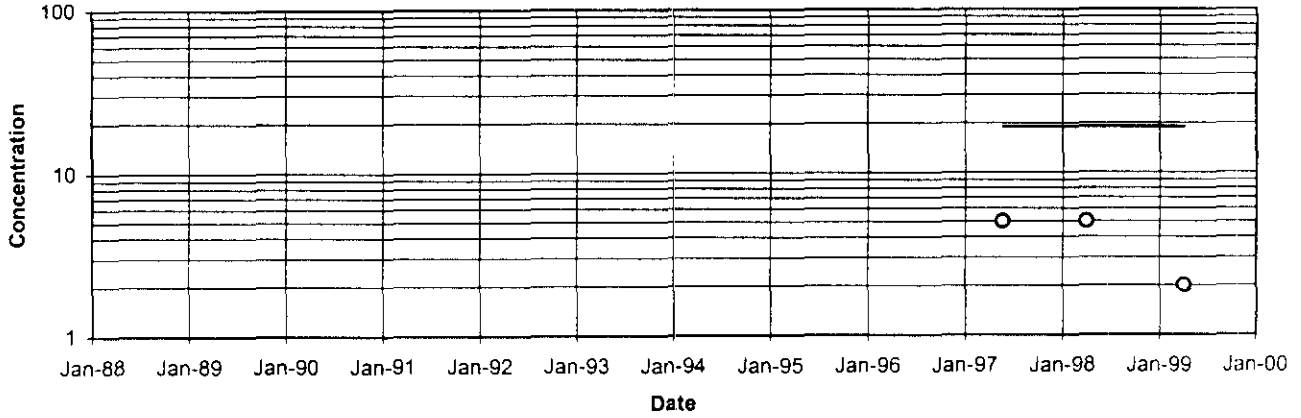
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

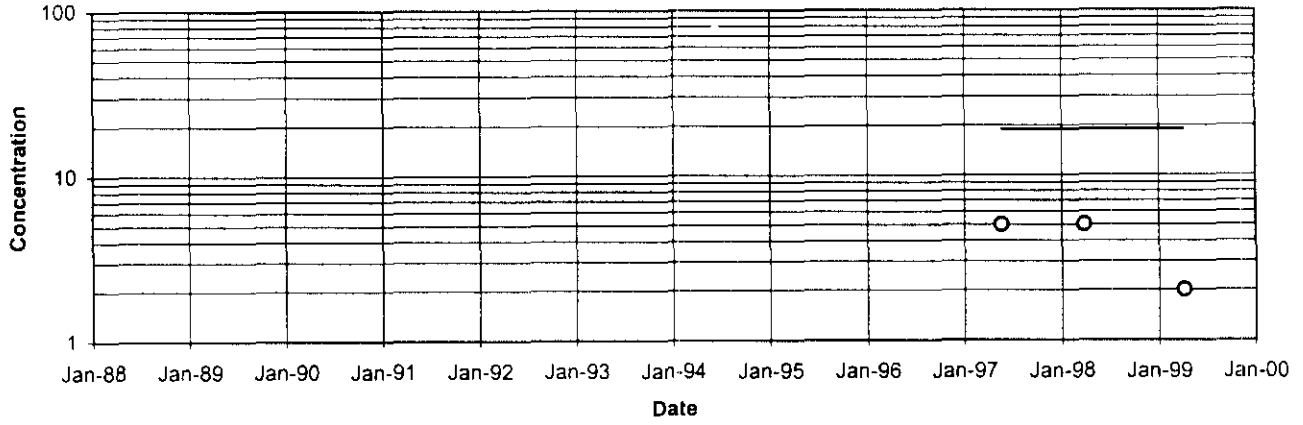
G116D



G117



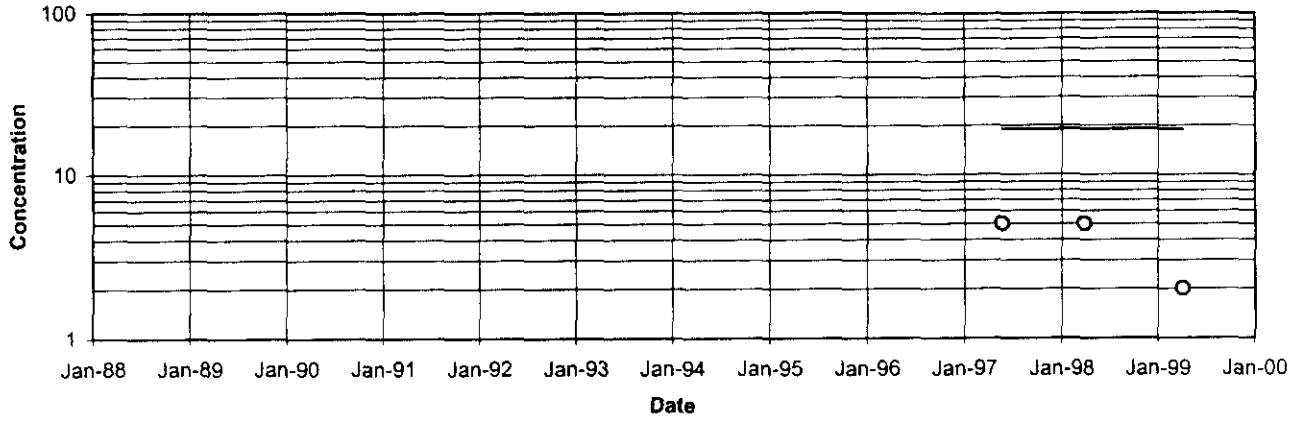
G118A



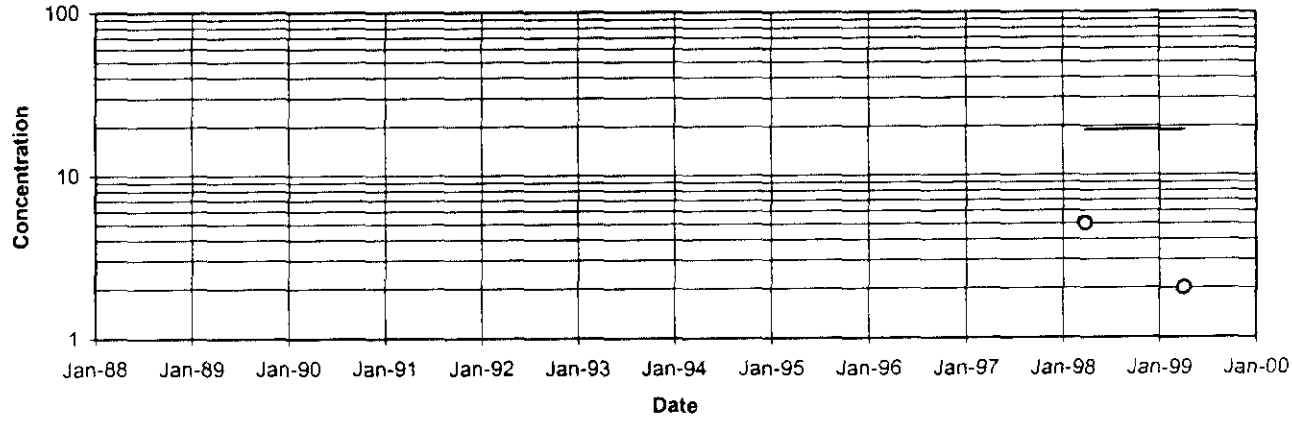
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

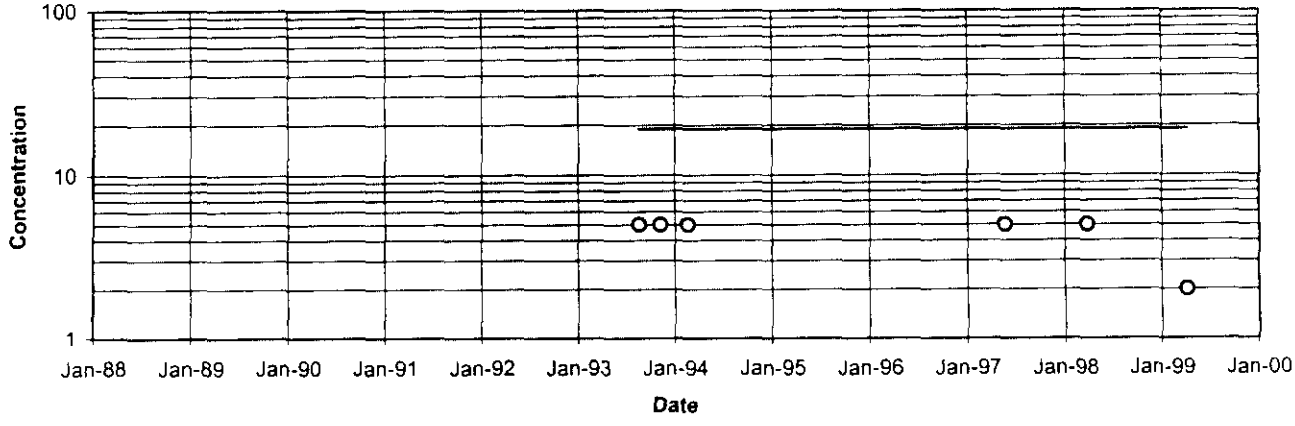
G118R



G119



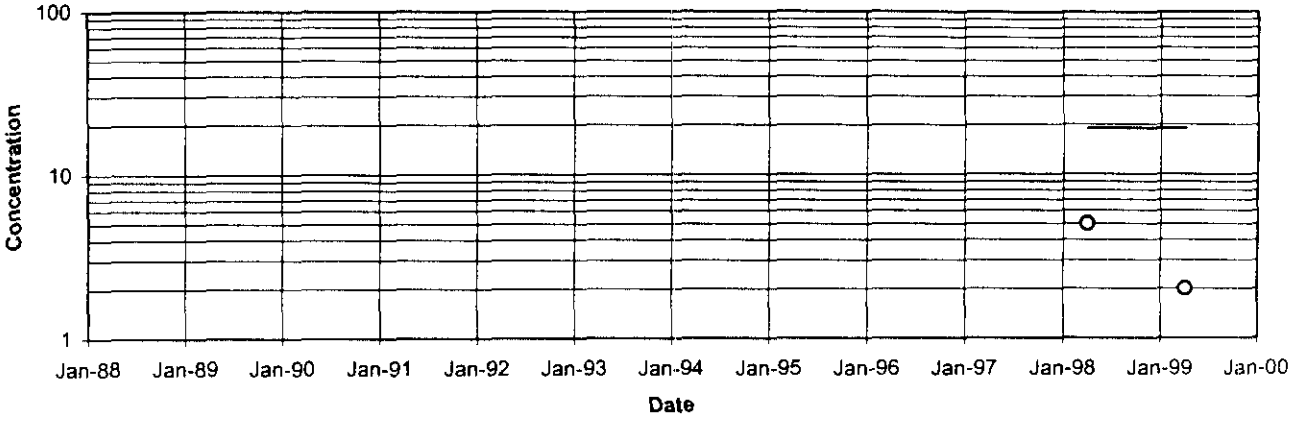
G120B



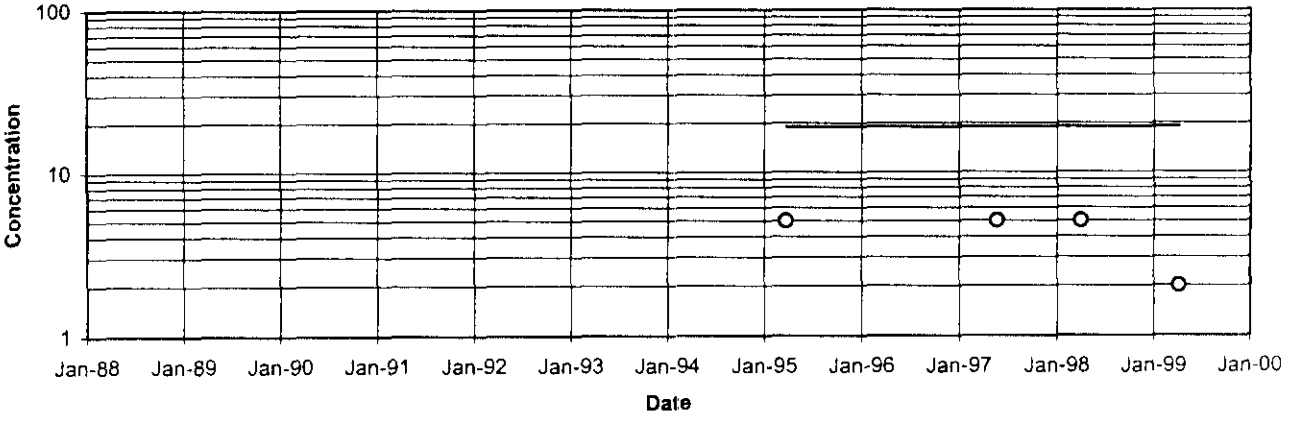
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

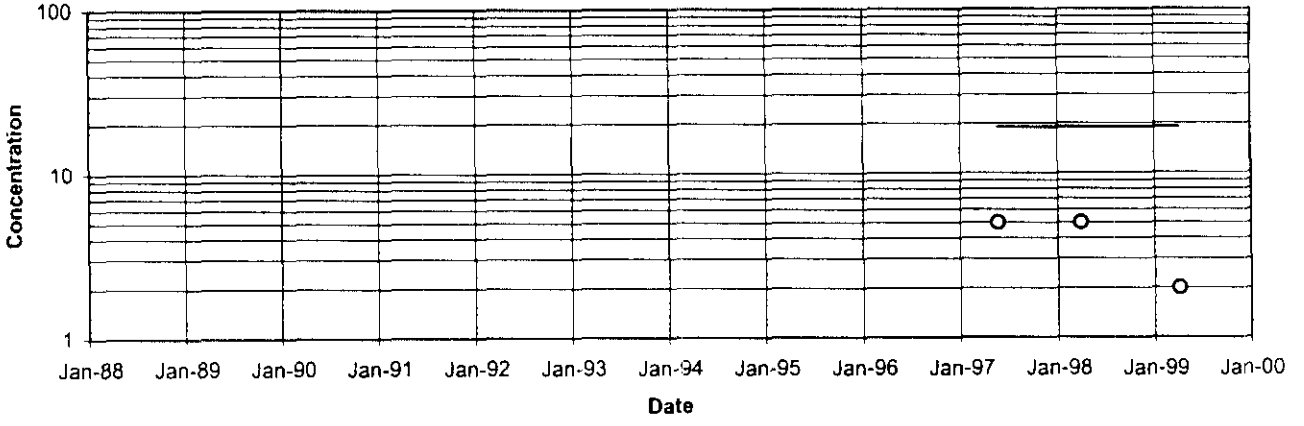
G130



G132



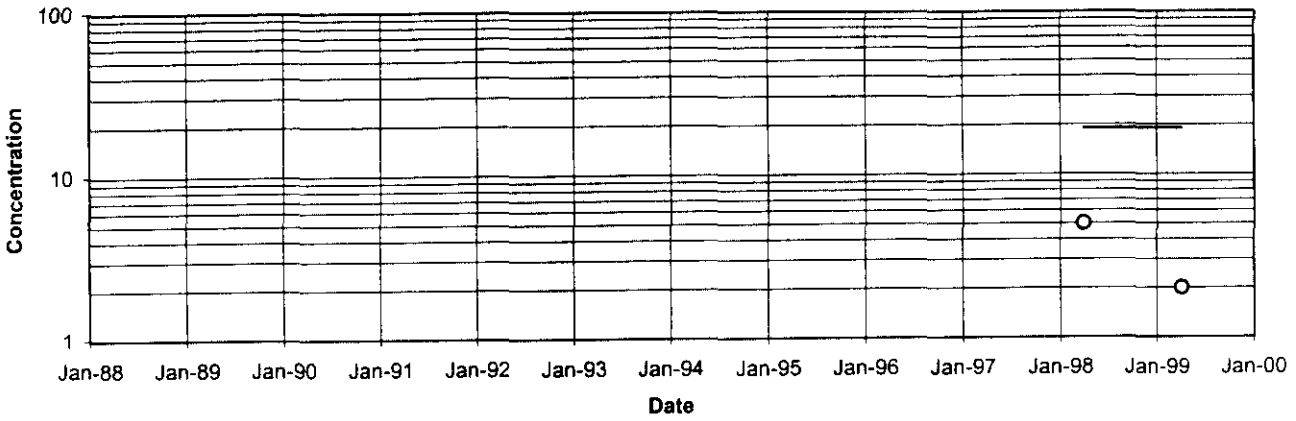
G33D



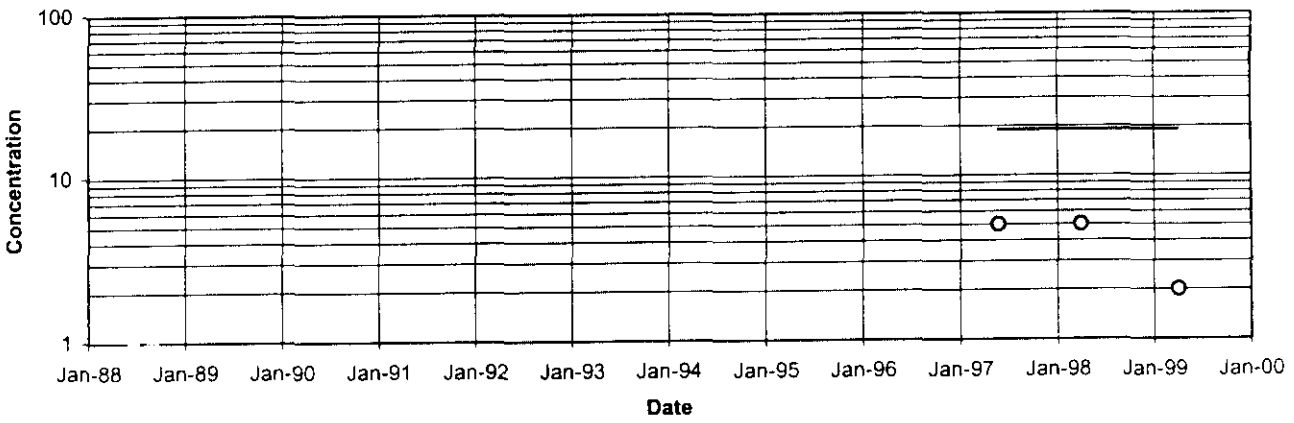
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration ○ NonDetect

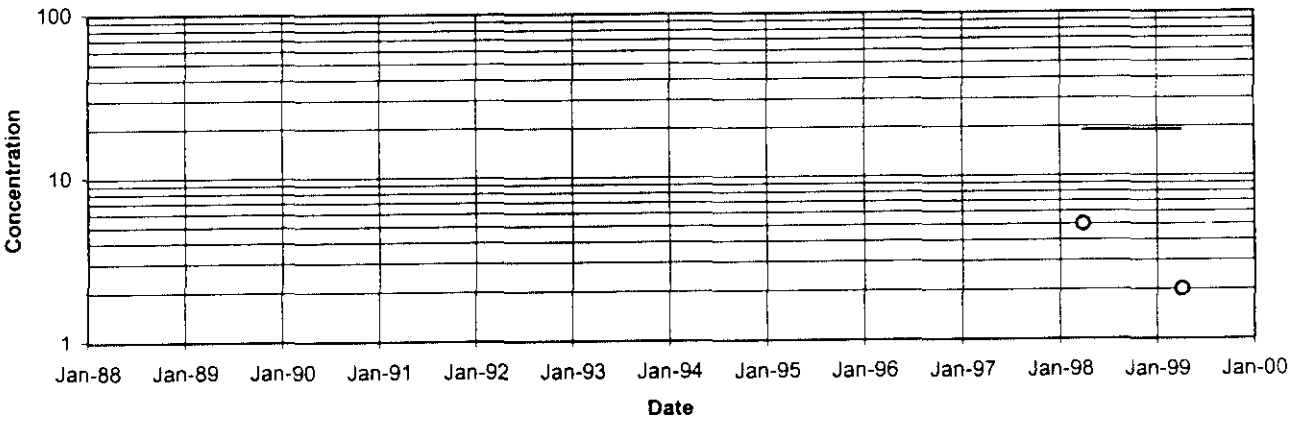
G33S



G34D



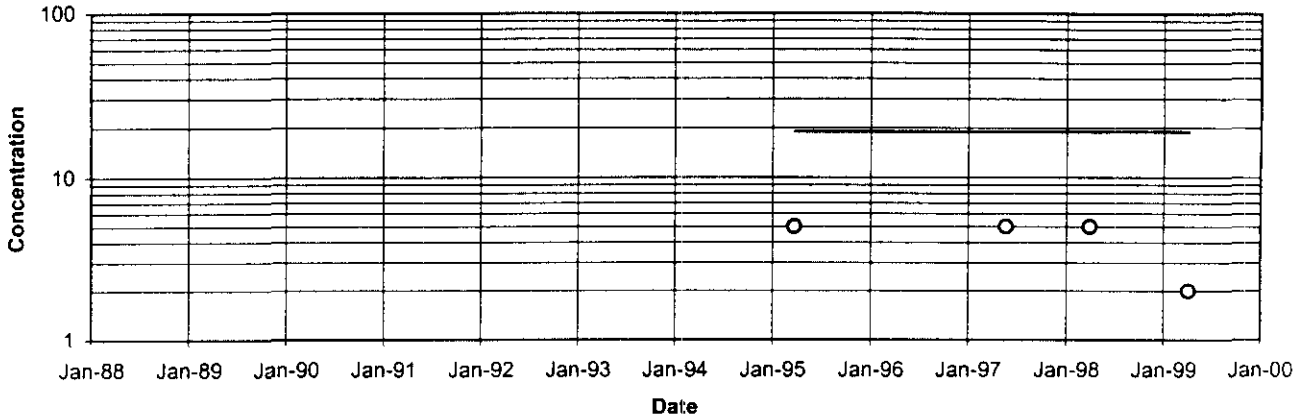
G34S



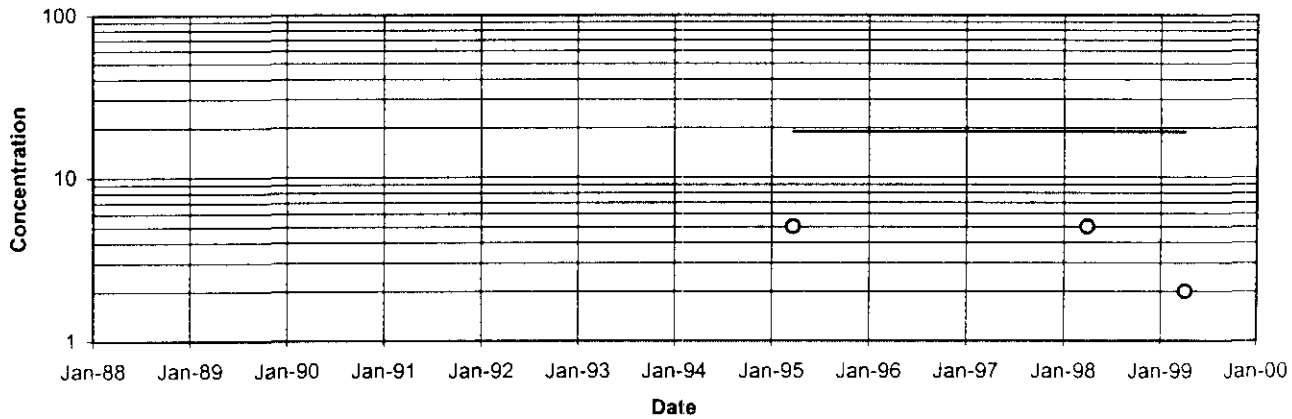
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

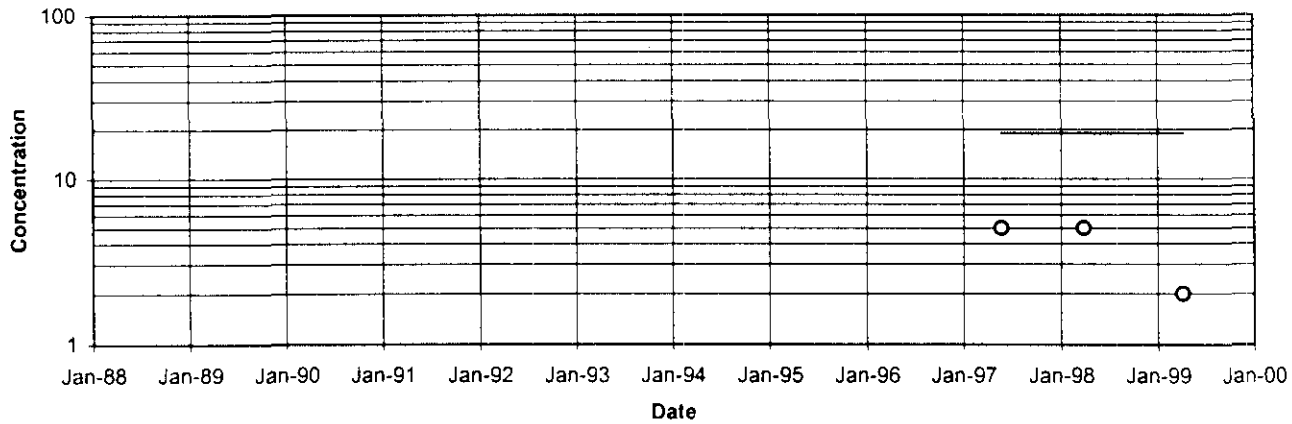
G35D



G35S



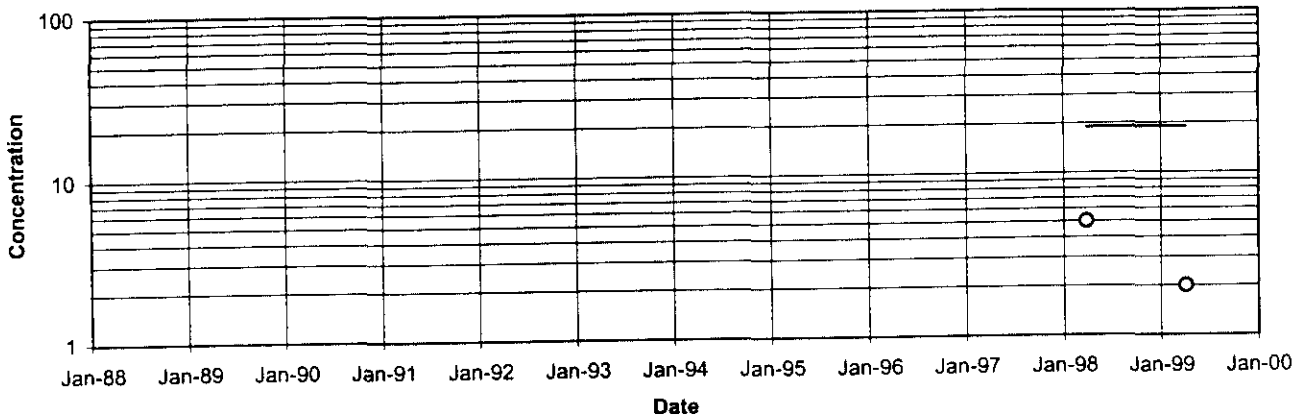
G36



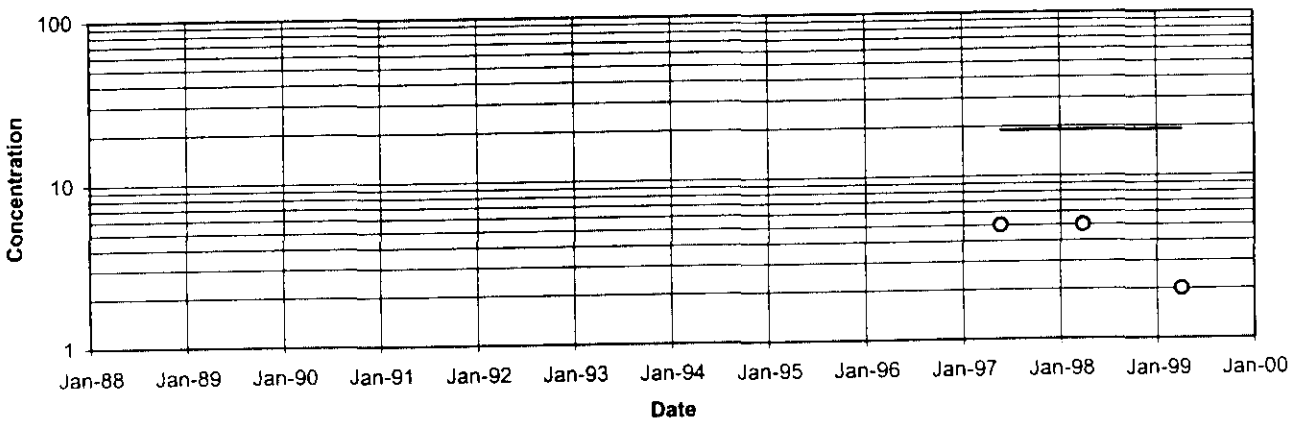
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration ○ NonDetect

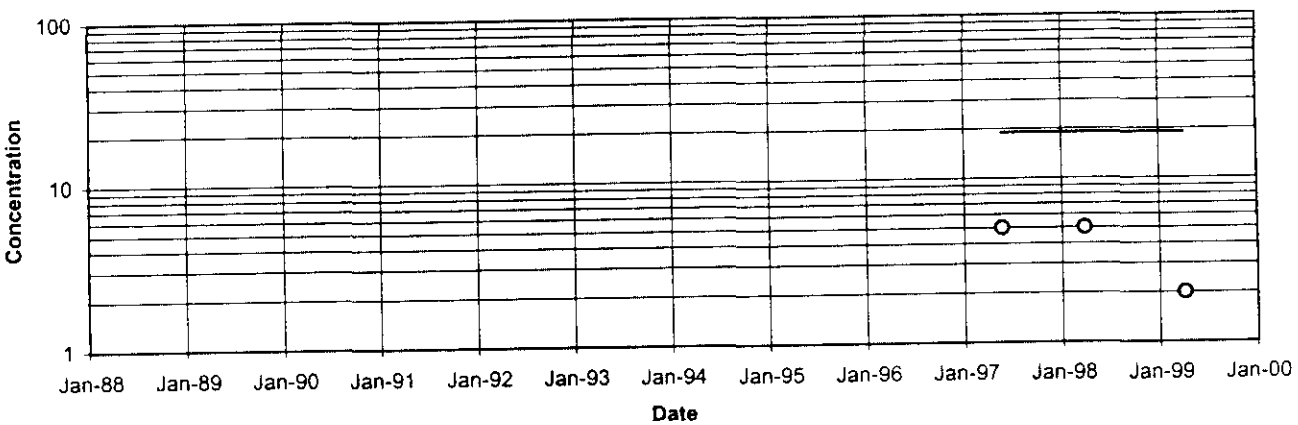
G37D



G37S



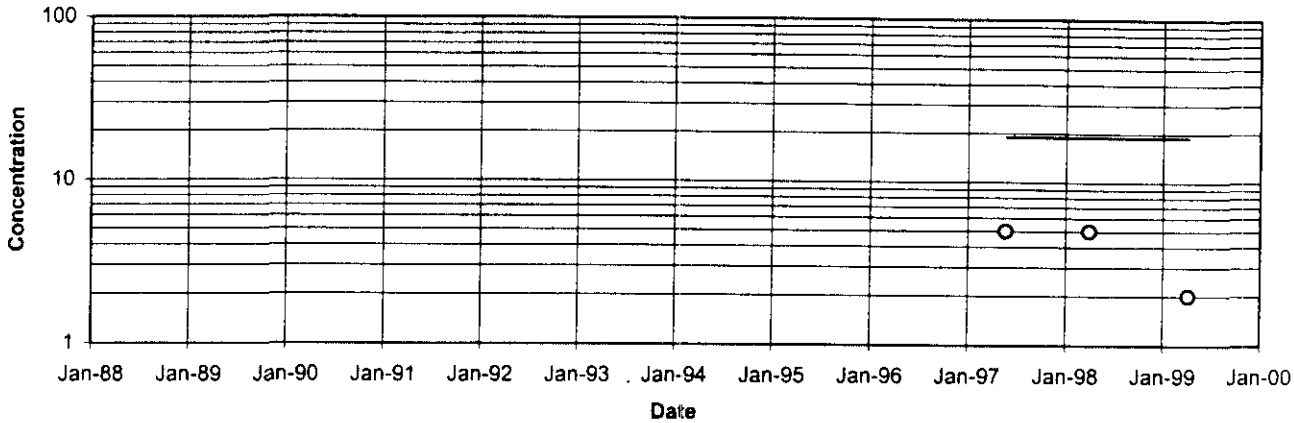
G38



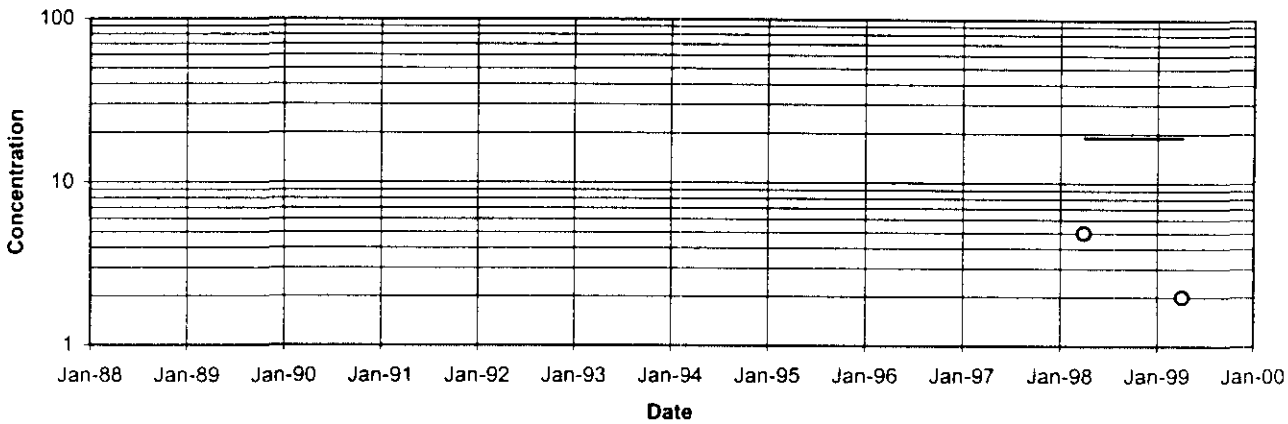
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration ○ NonDetect

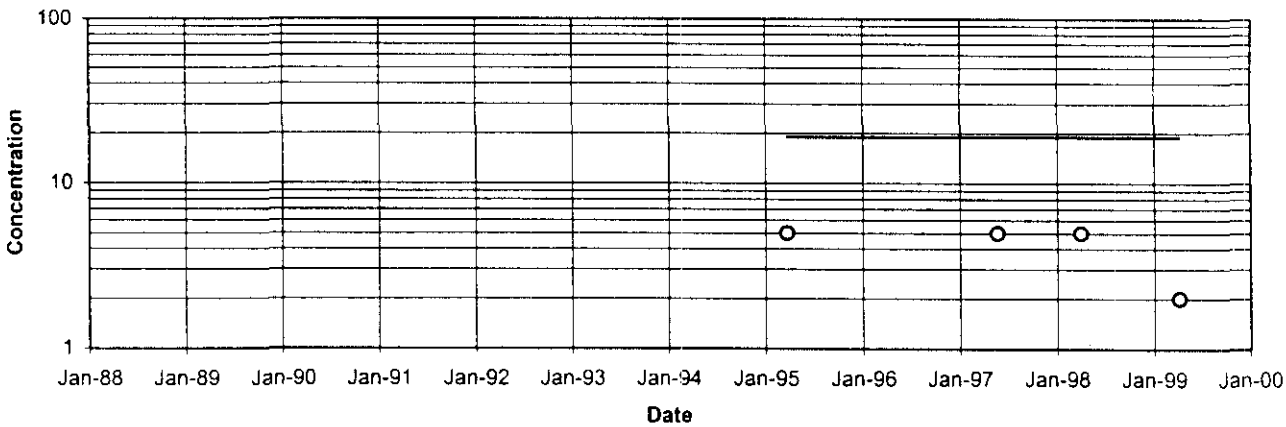
G39



G40



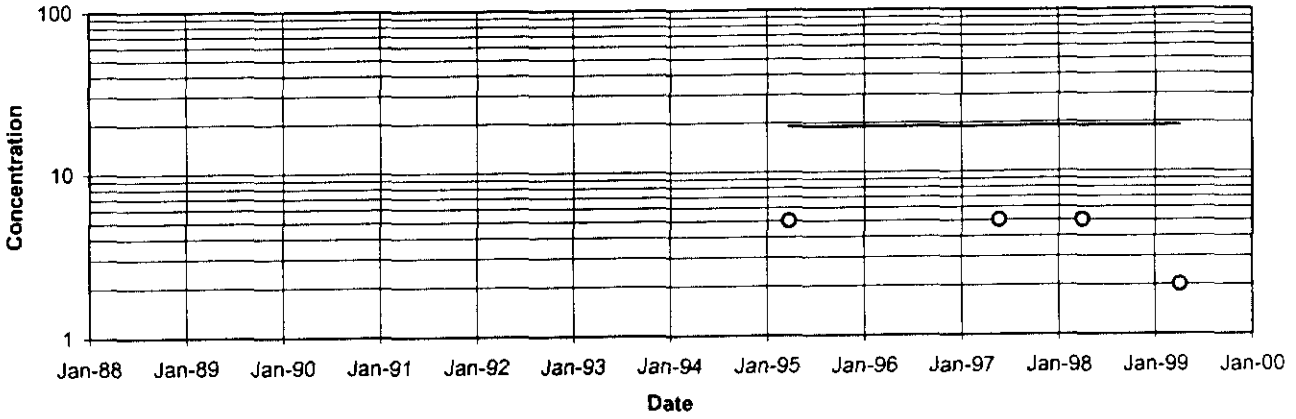
MW106



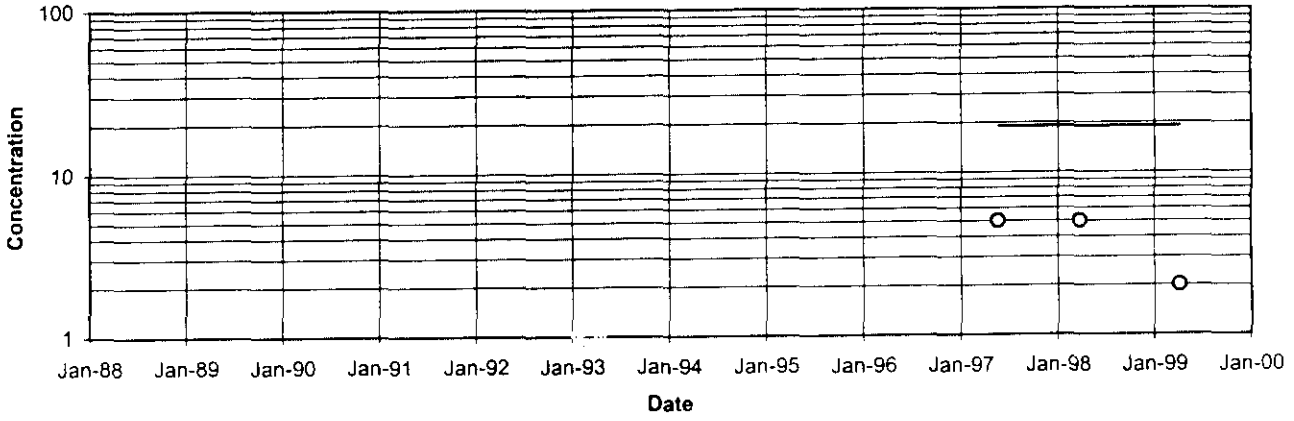
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

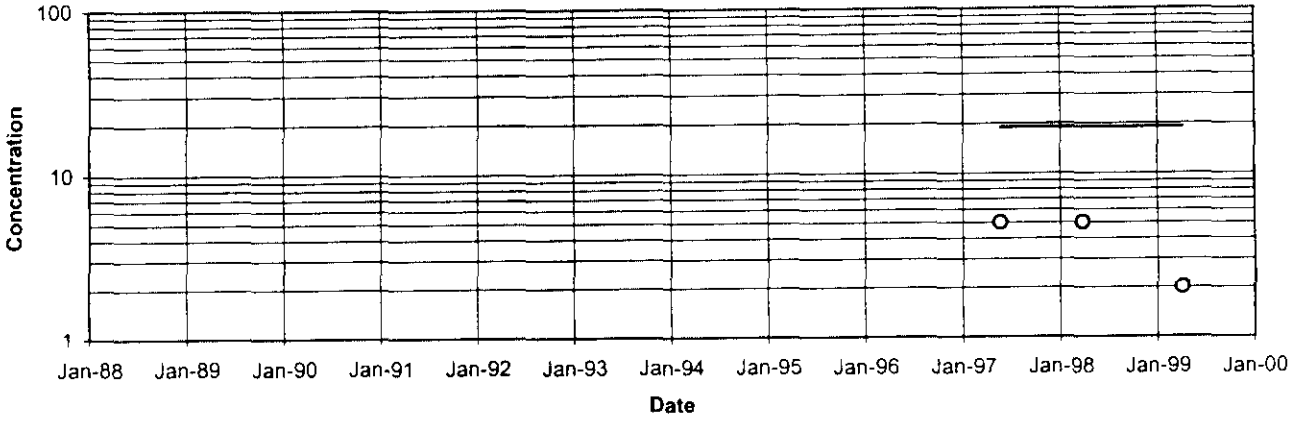
P1



P3R



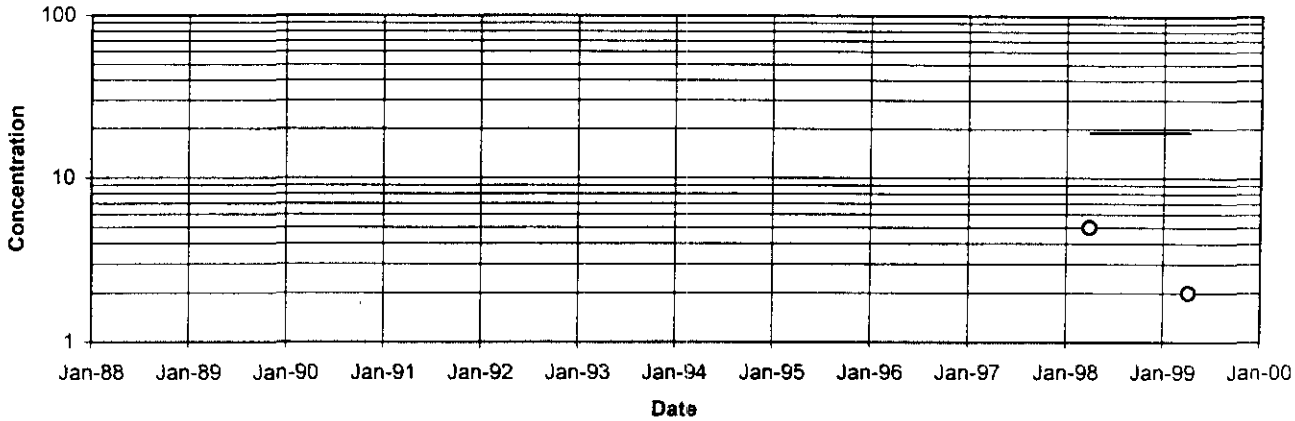
P4R



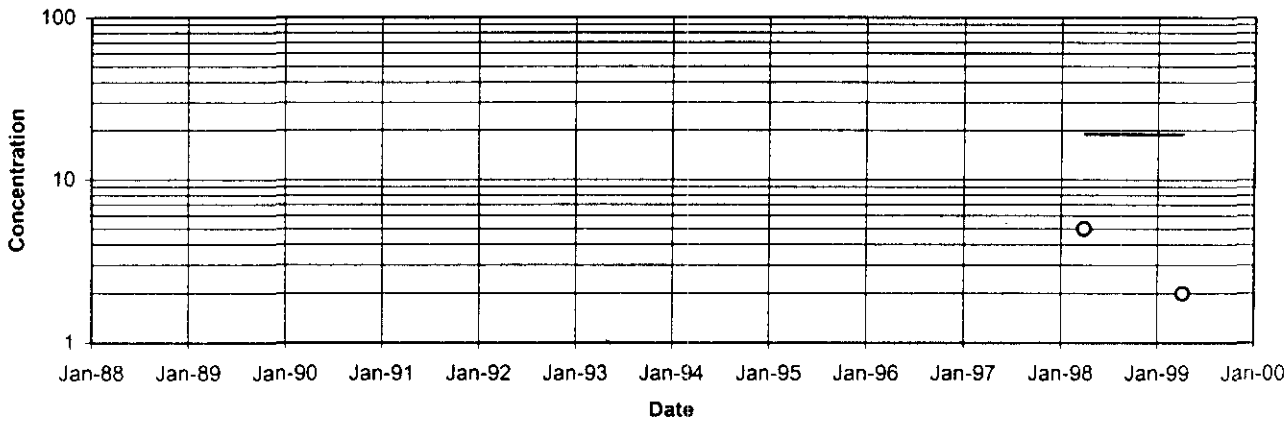
Dichlorodifluoromethane (ug/L)

AGQS Δ Concentration O NonDetect

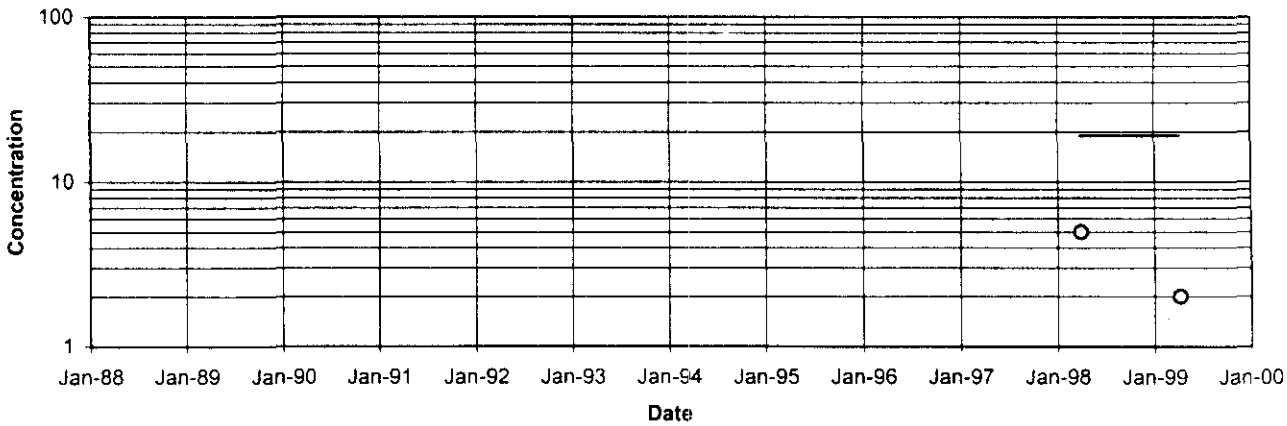
SG1



SG3



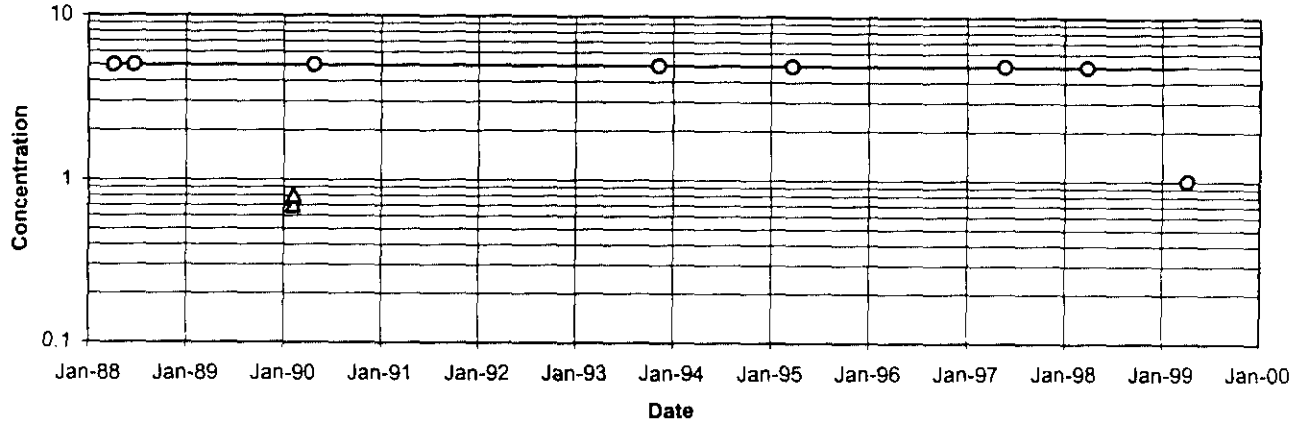
SG4



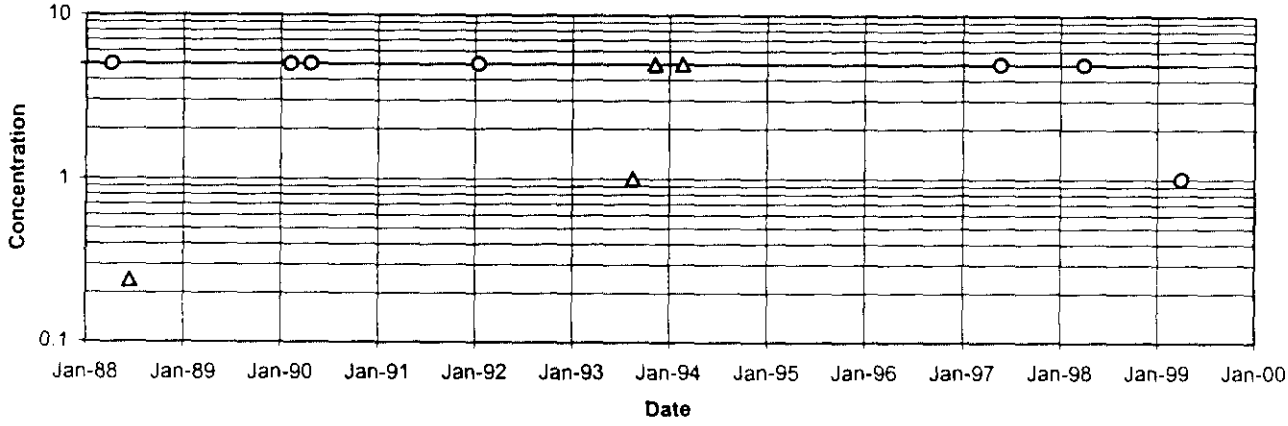
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

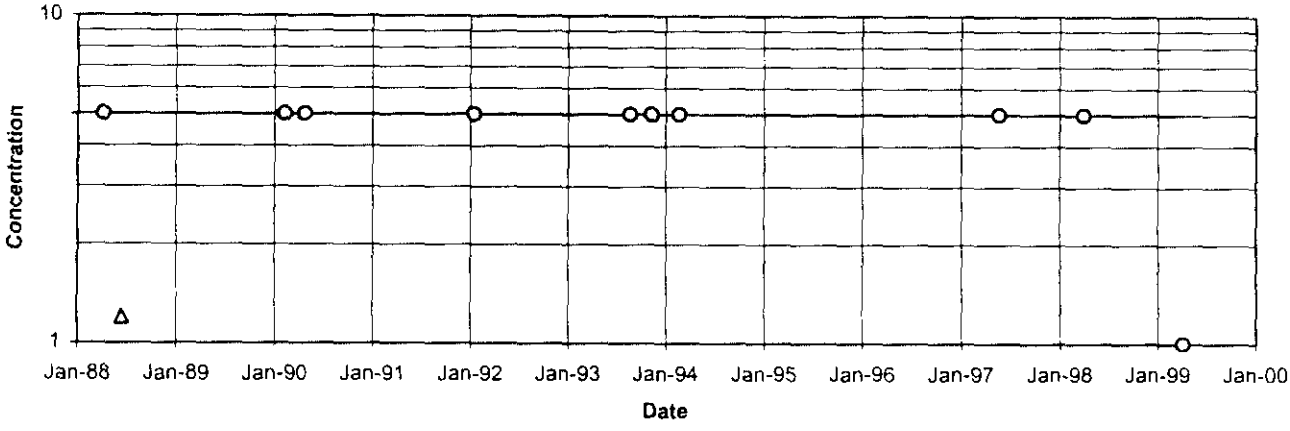
B15R



G109



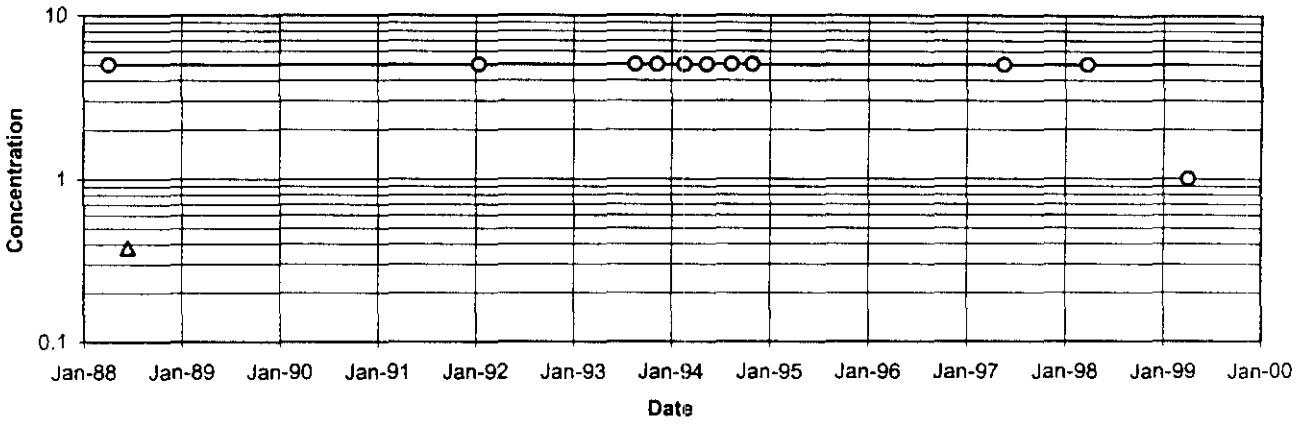
G109A



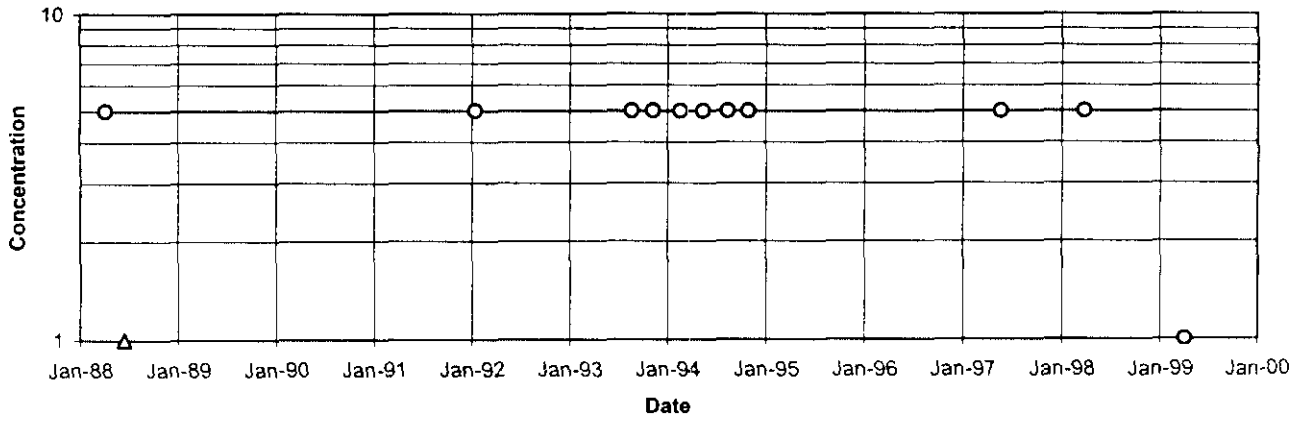
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

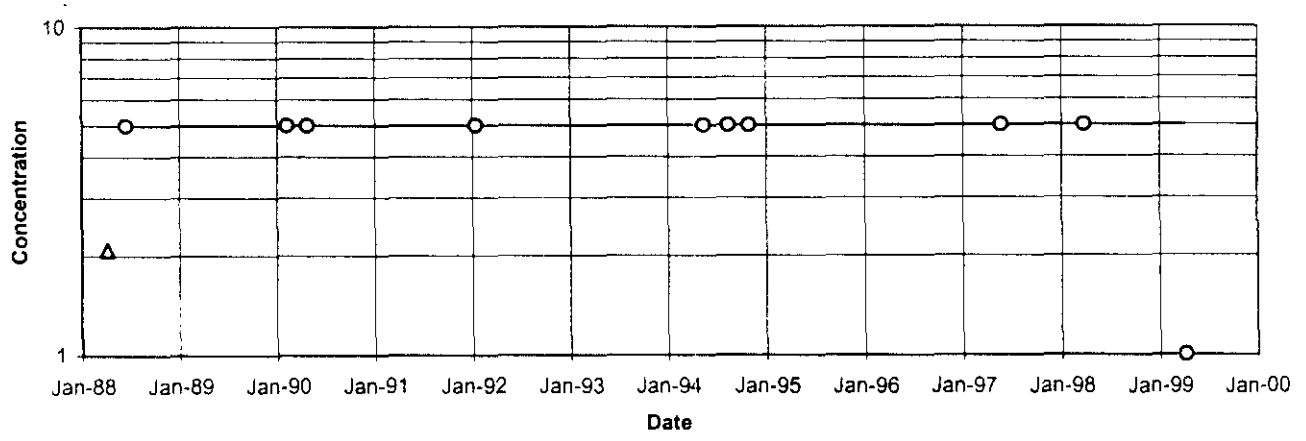
G113



G113A



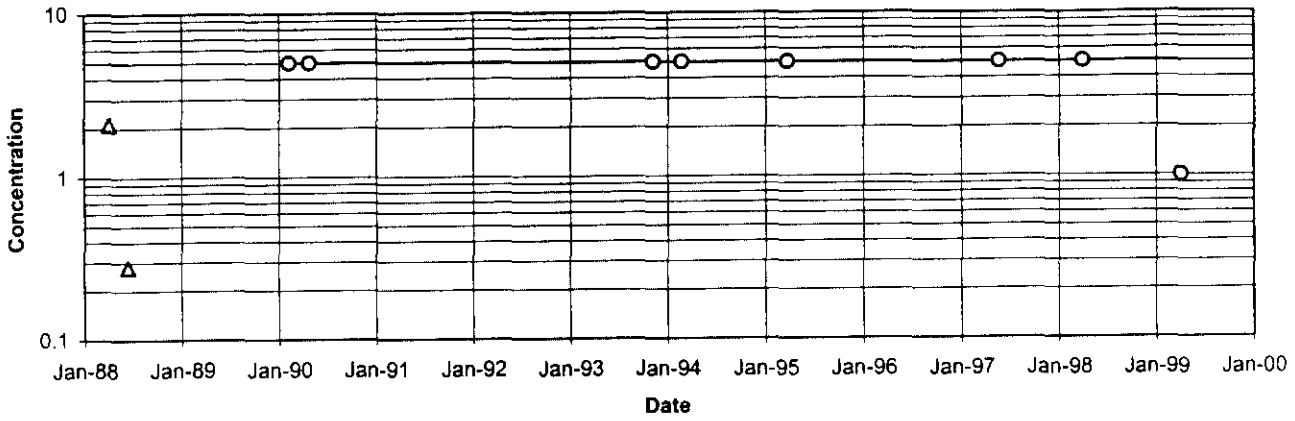
G114



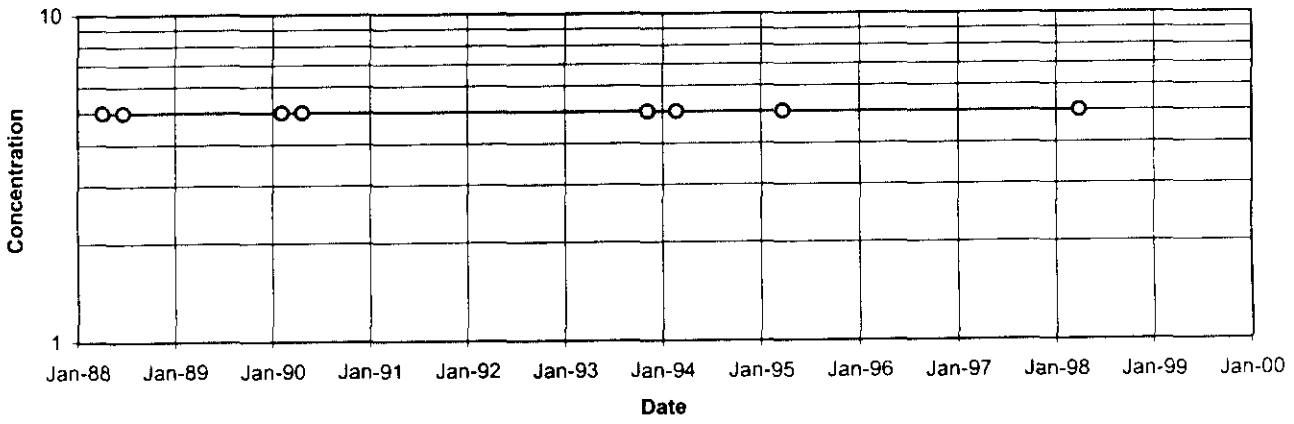
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

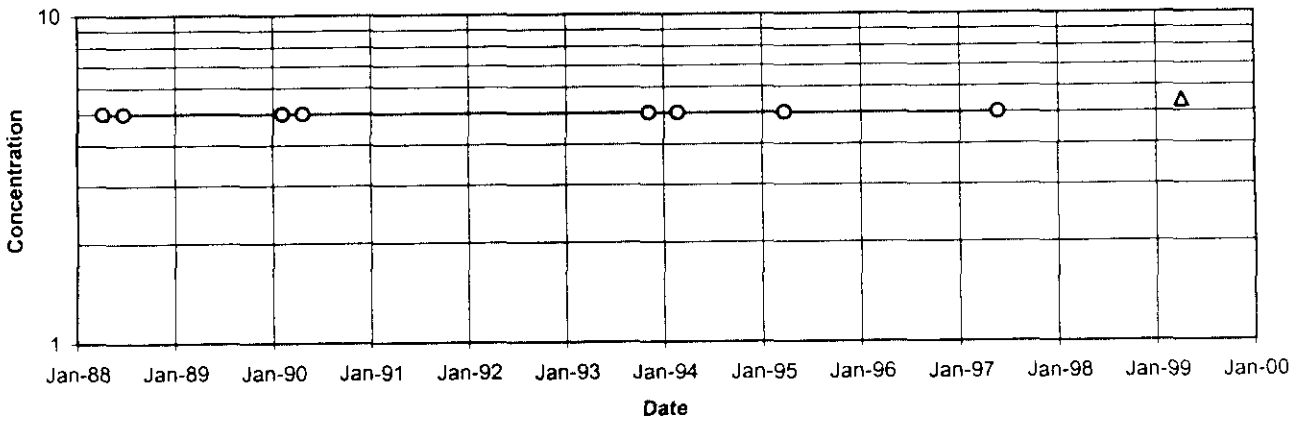
G115



G116



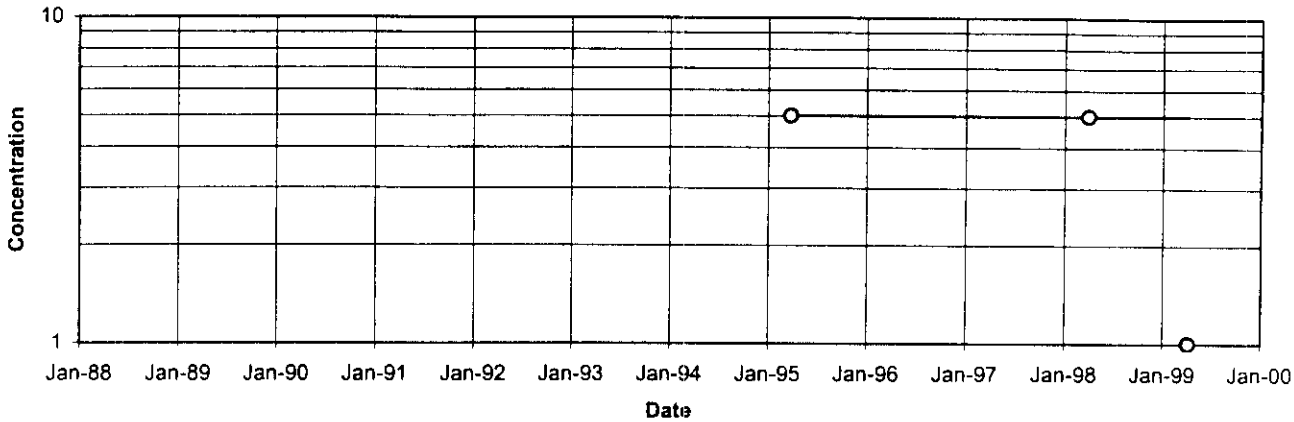
G116A



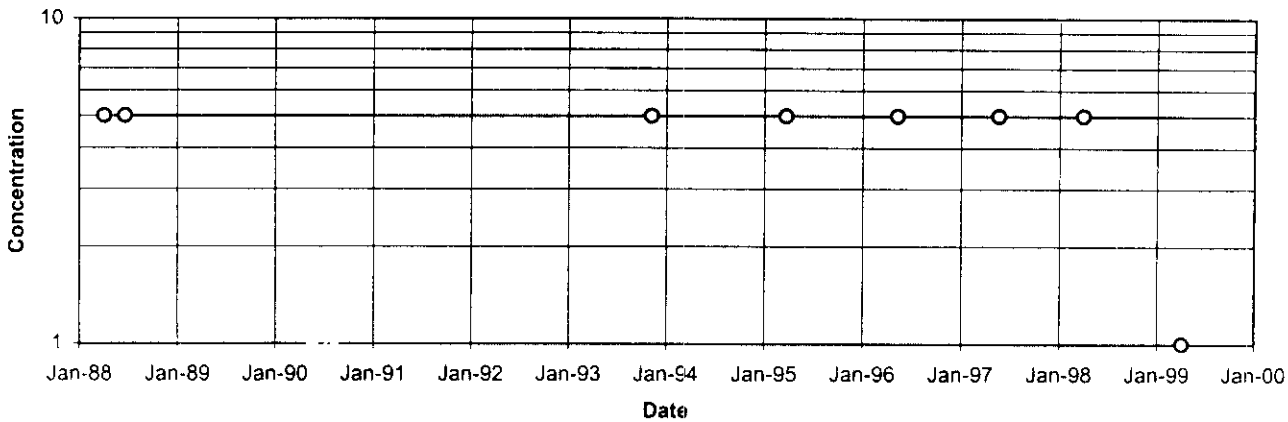
Ethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

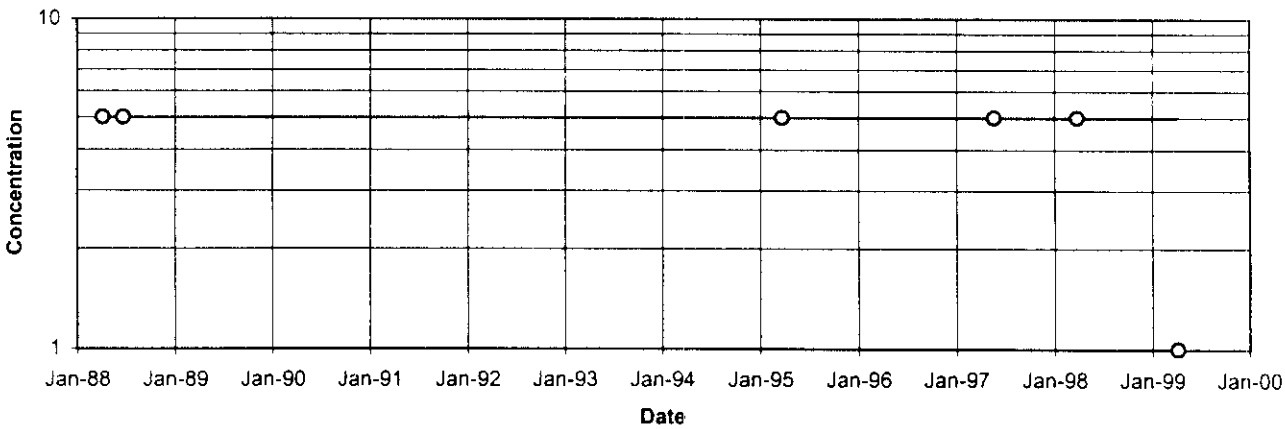
G116D



G117



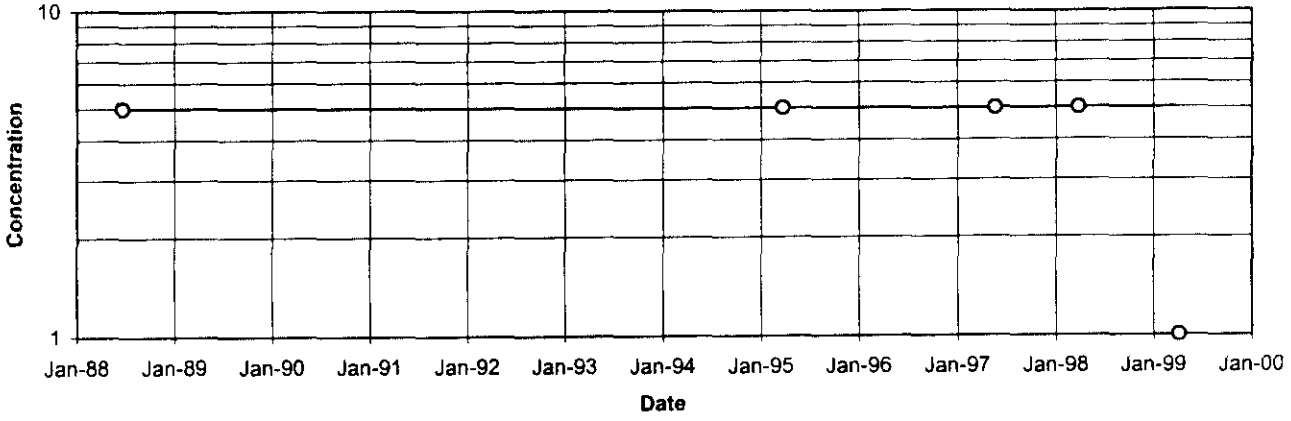
G118A



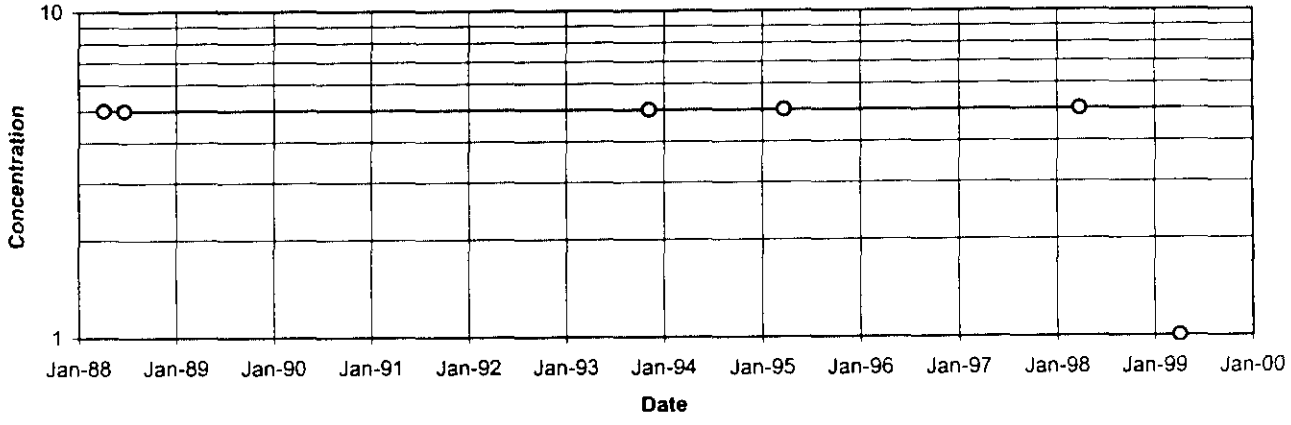
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

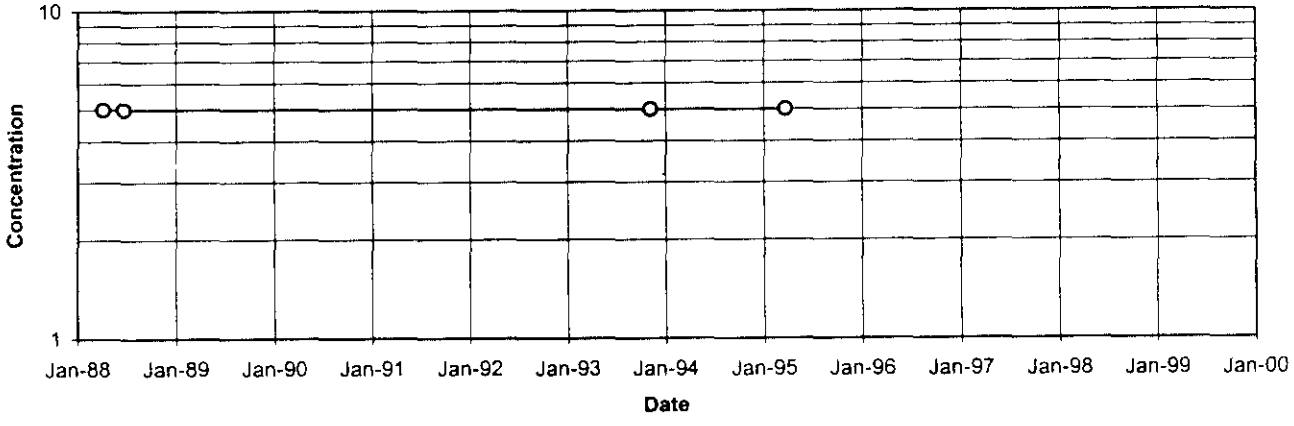
G118R



G119



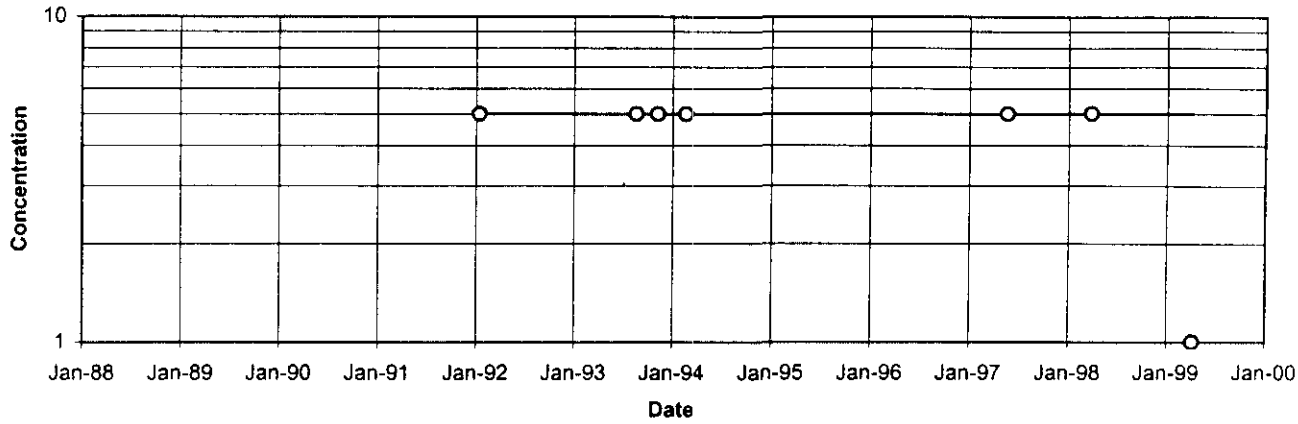
G119A



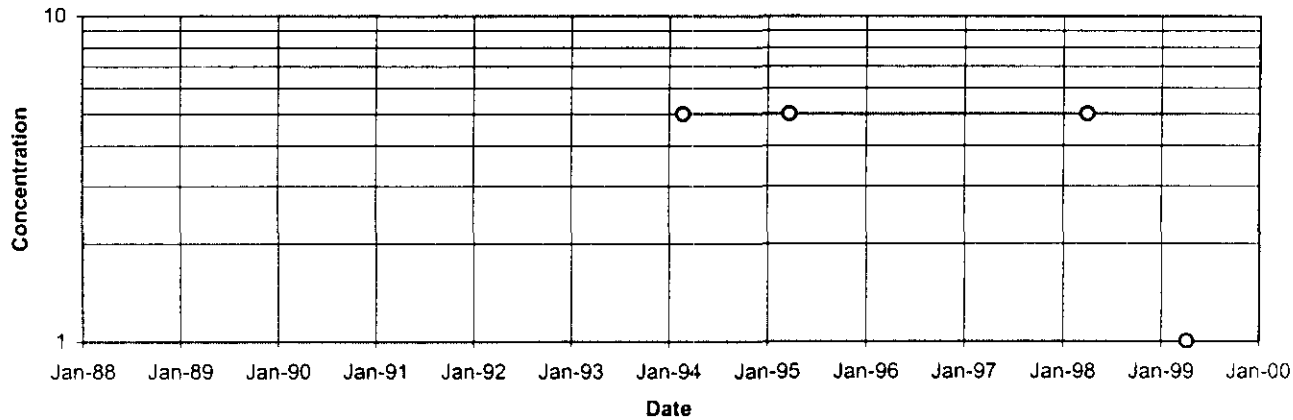
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

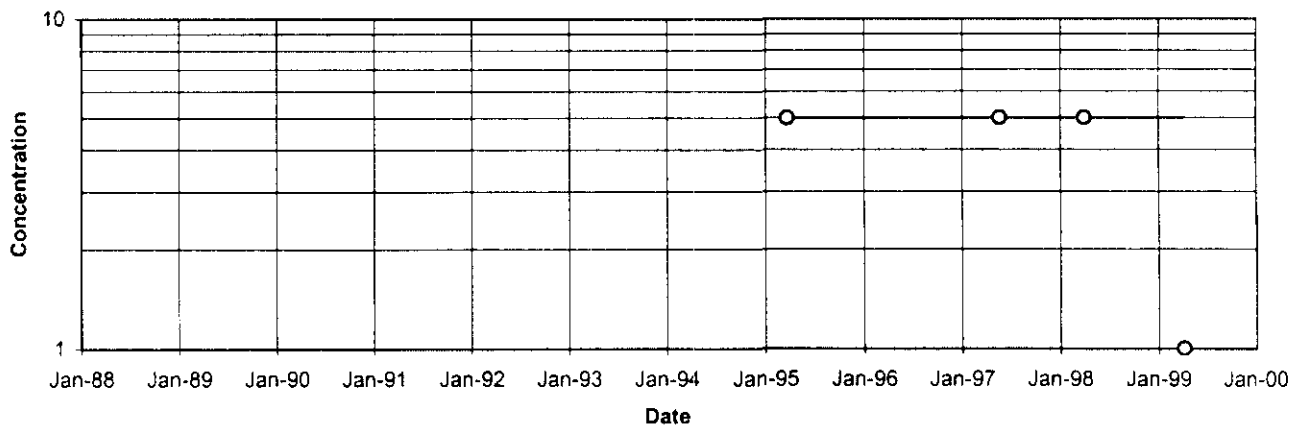
G120B



G130



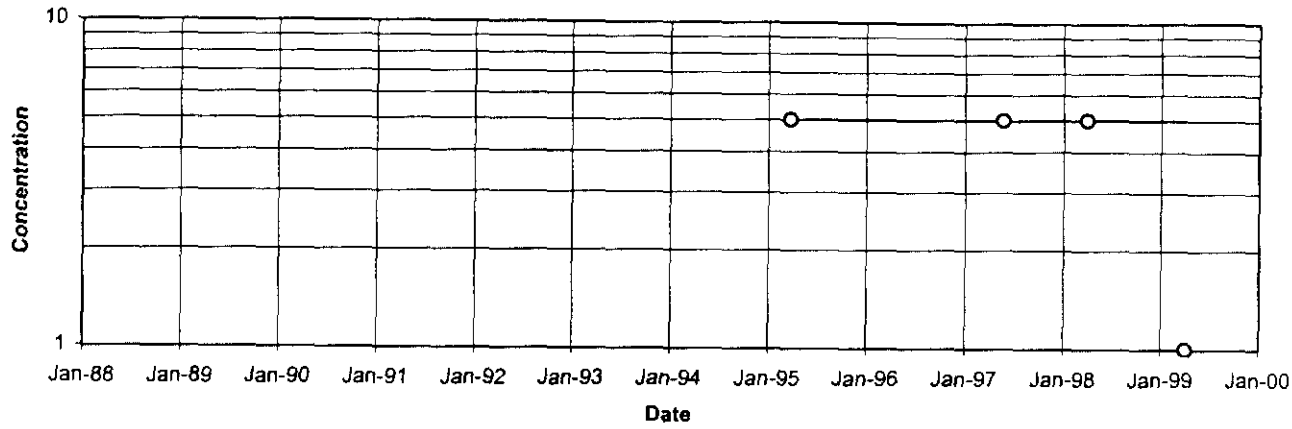
G132



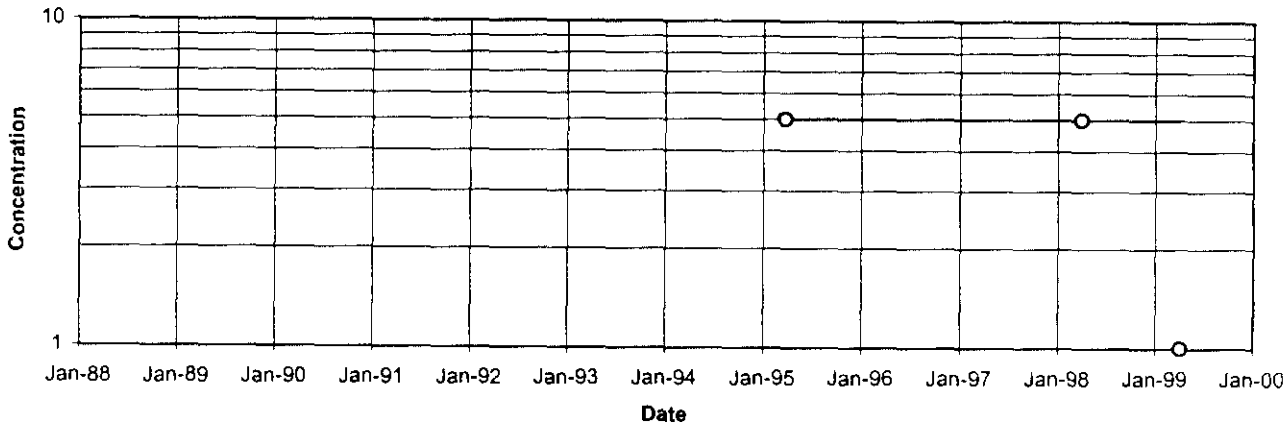
Ethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

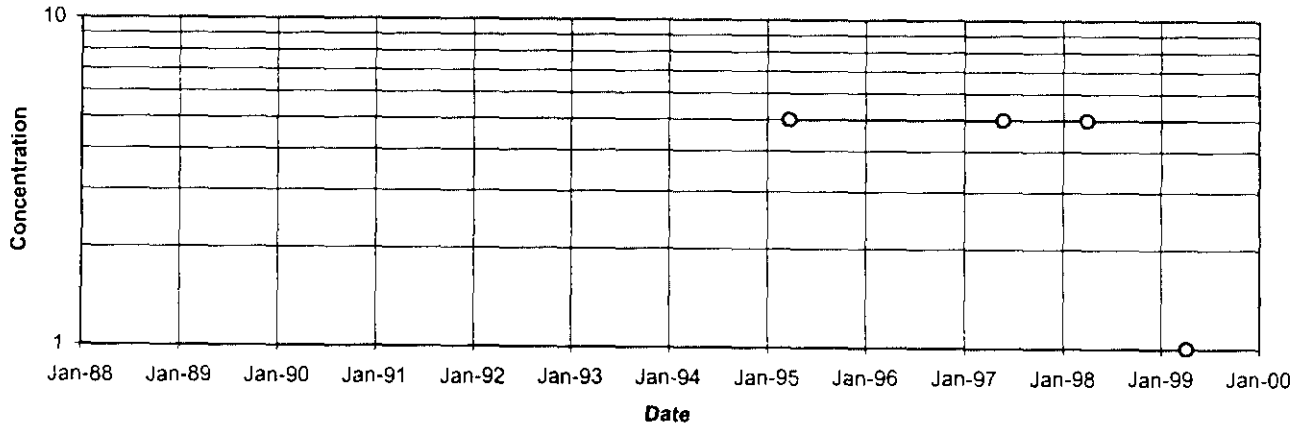
G33D



G33S



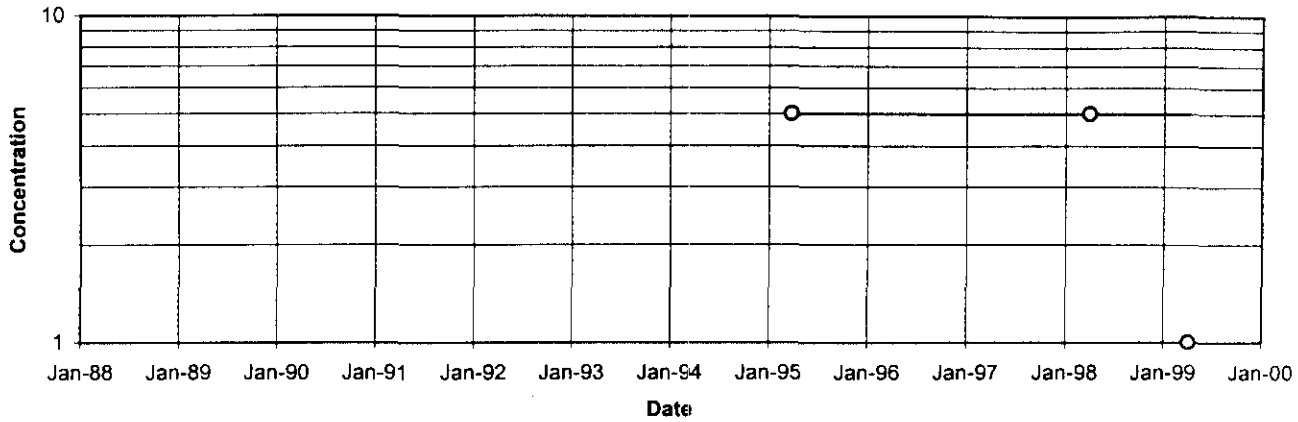
G34D



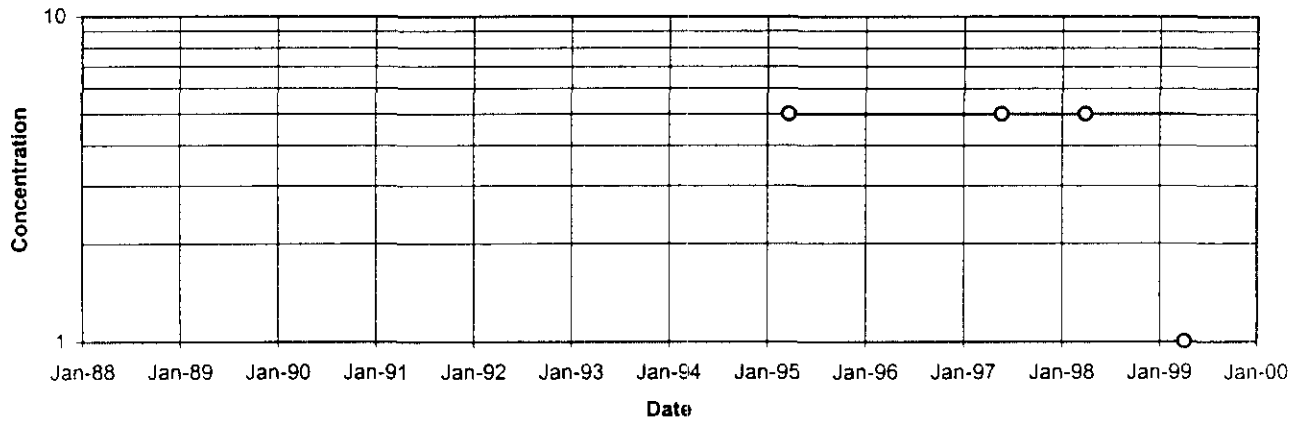
Ethylbenzene (ug/L)

AGQS Δ Concentration ○ NonDetect

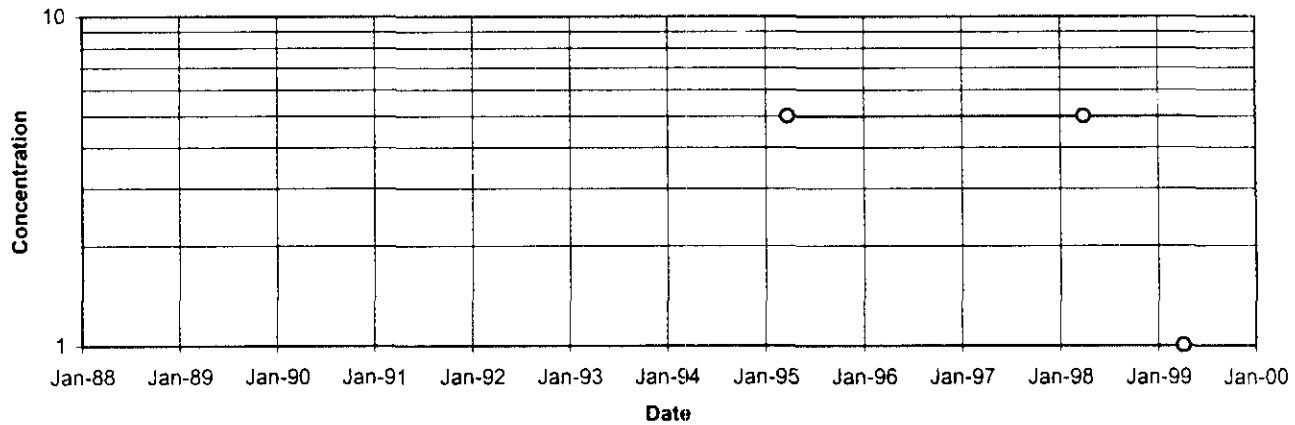
G34S



G35D



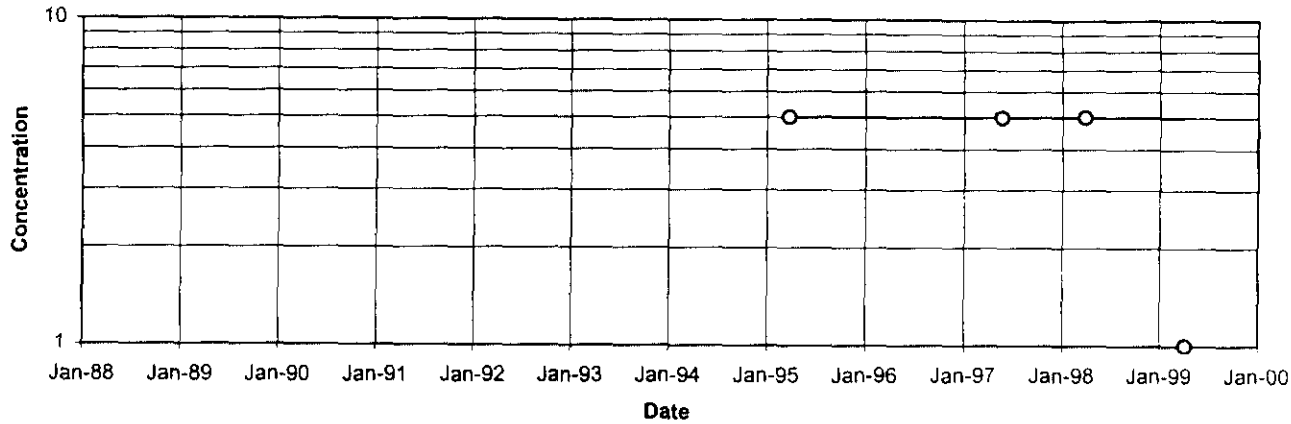
G35S



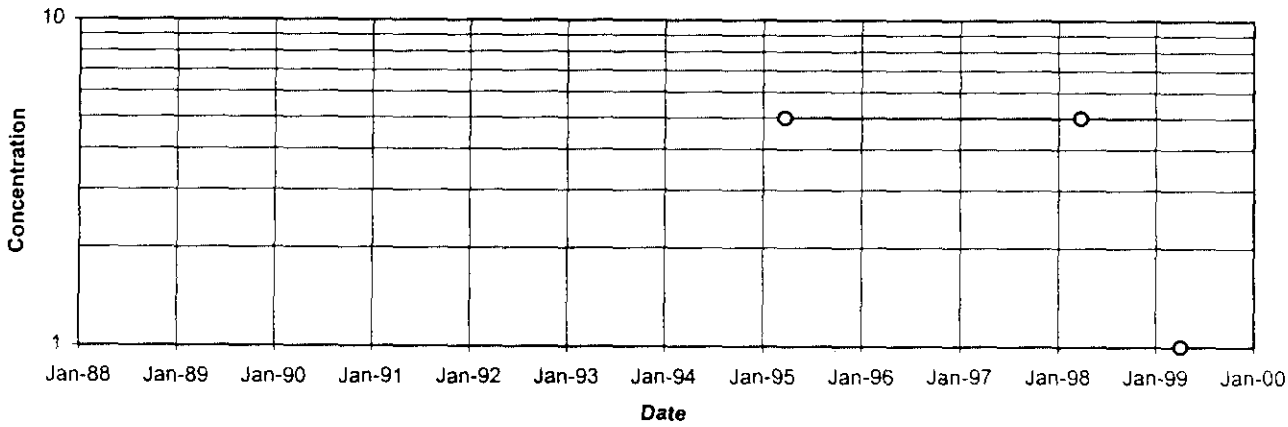
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

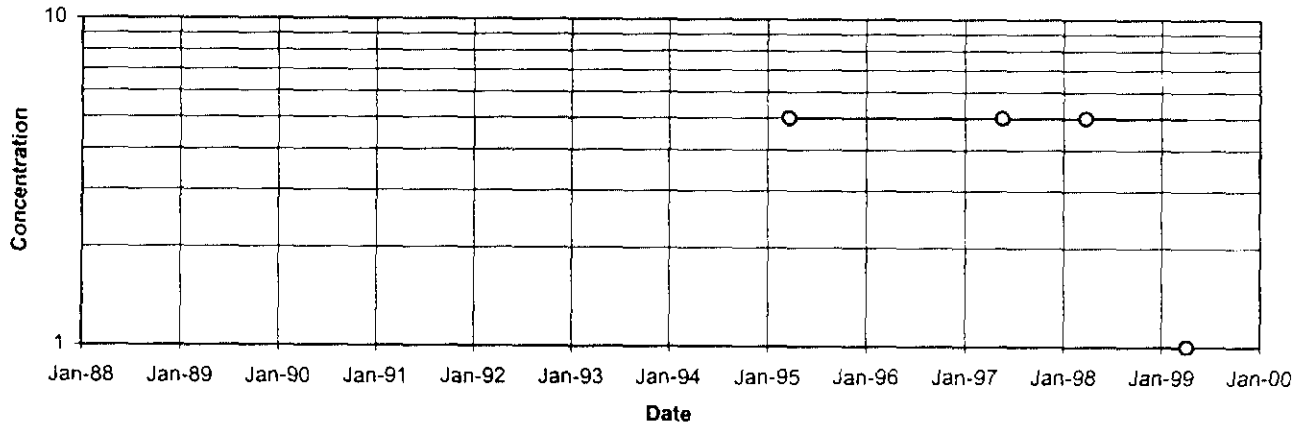
G36



G37D



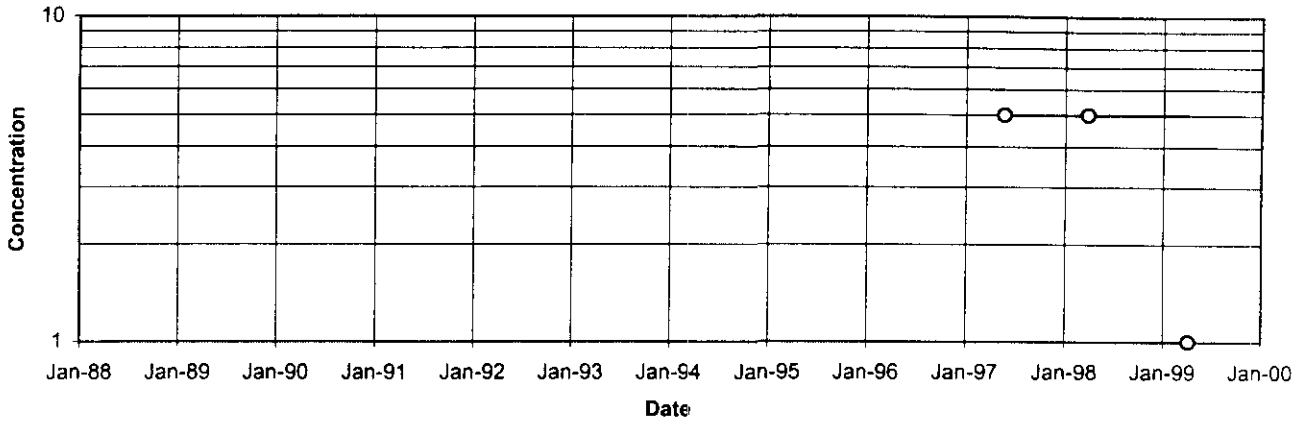
G37S



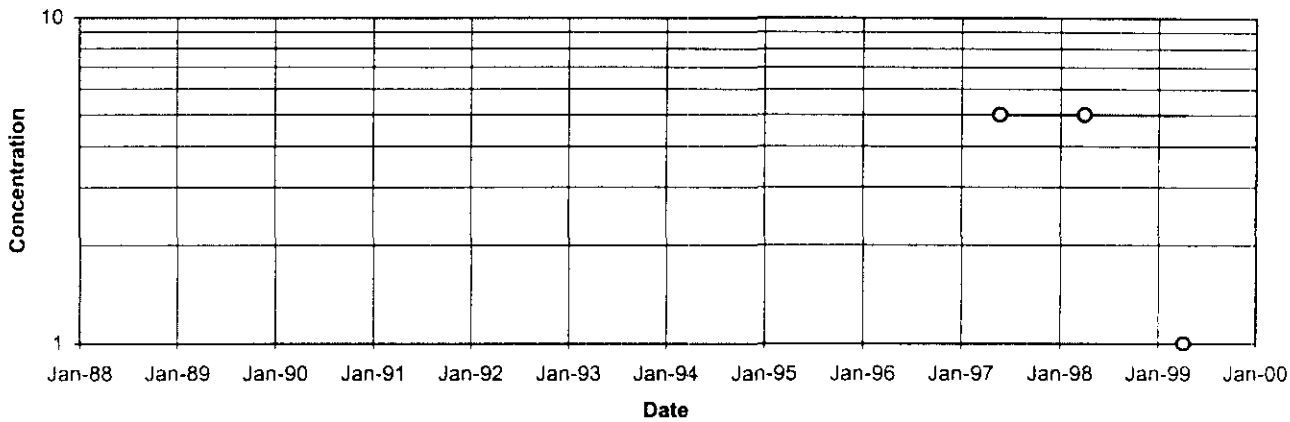
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

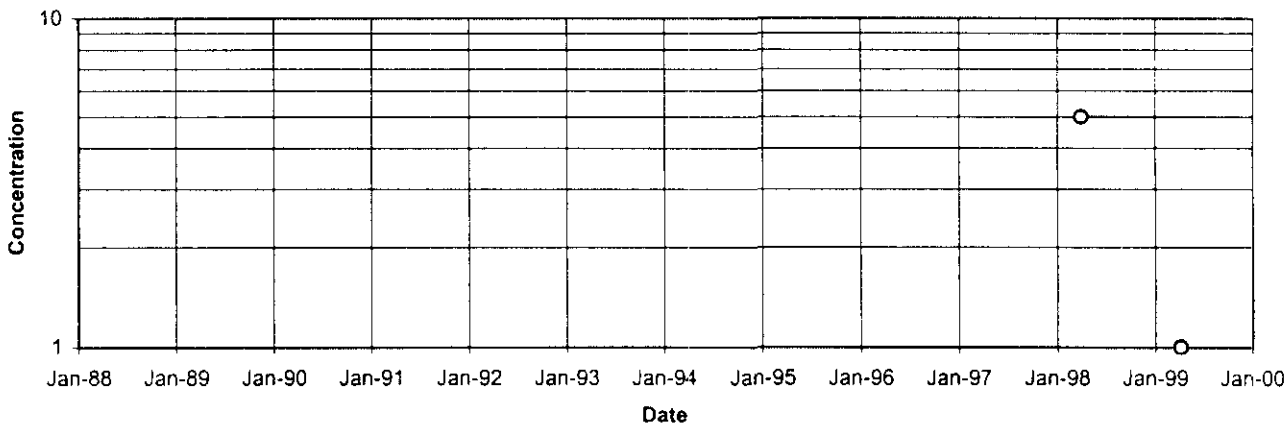
G38



G39



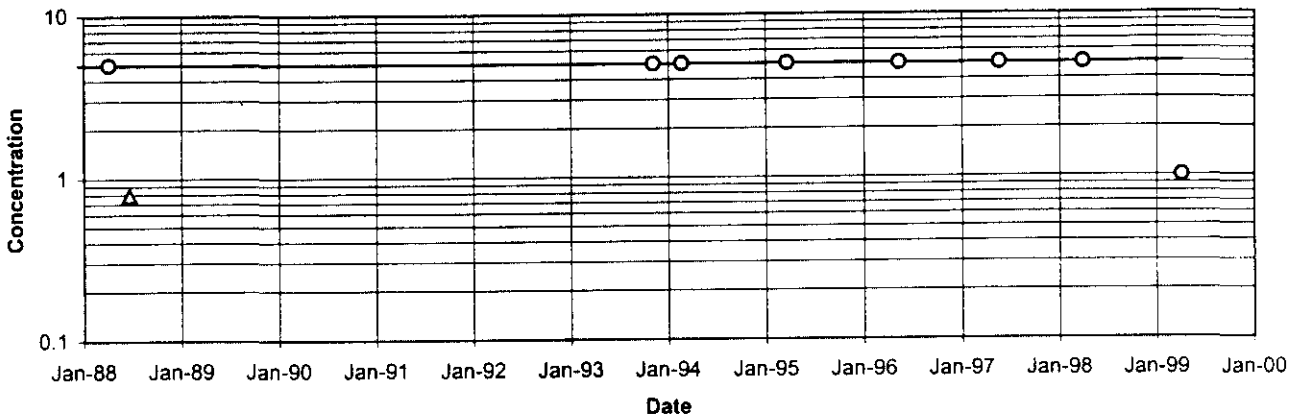
G40



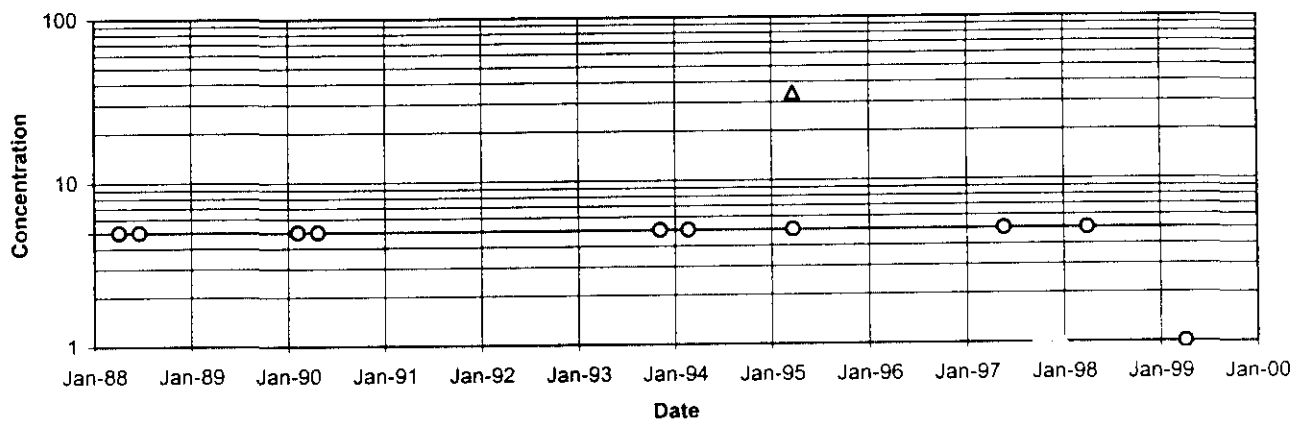
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

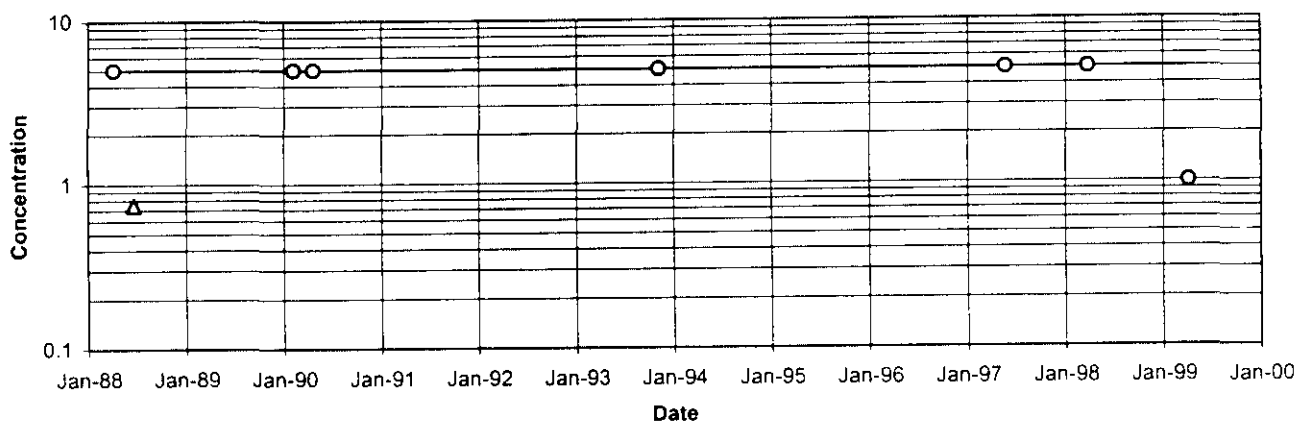
MW106



P1



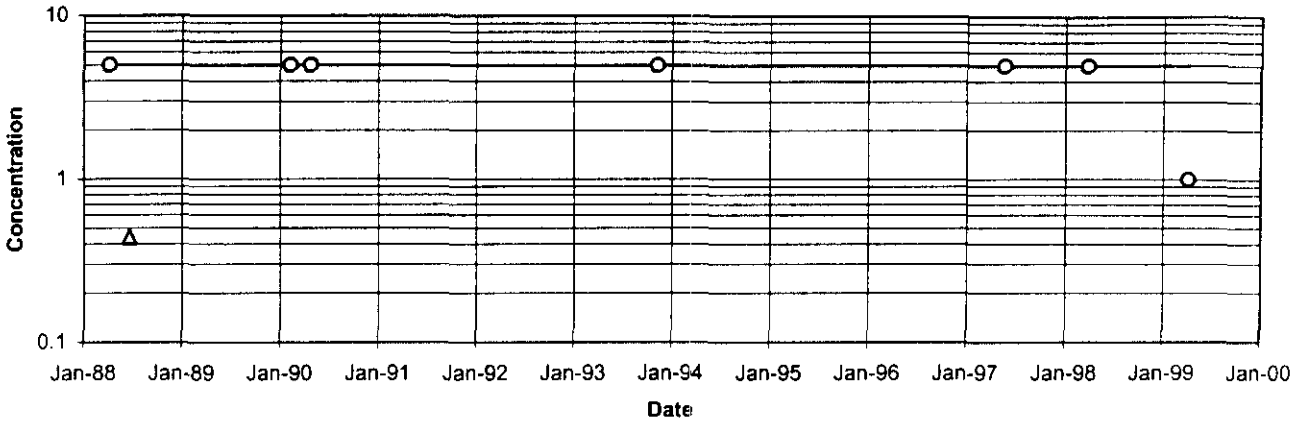
P3R



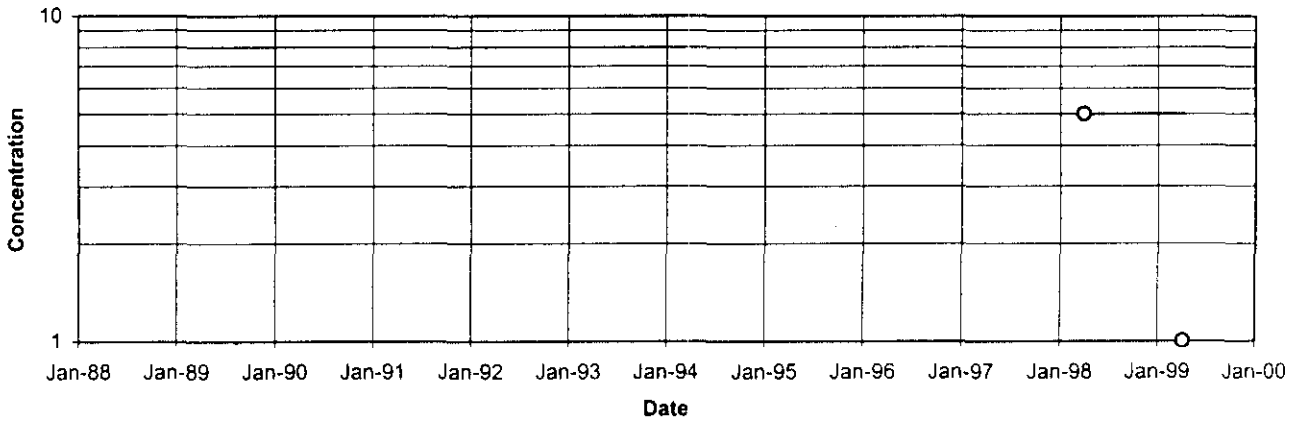
Ethylbenzene (ug/L)

AGQS Δ Concentration O NonDetect

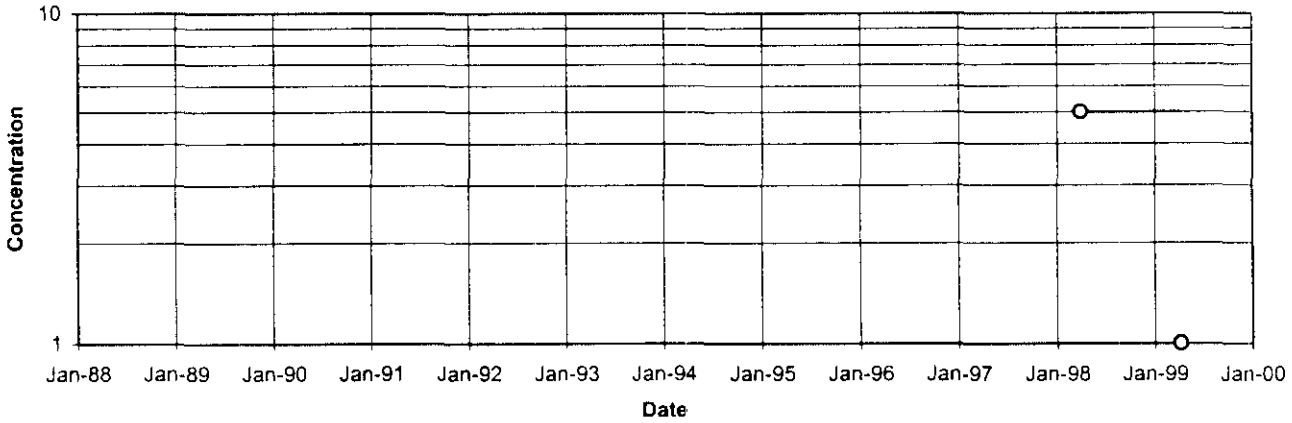
P4R



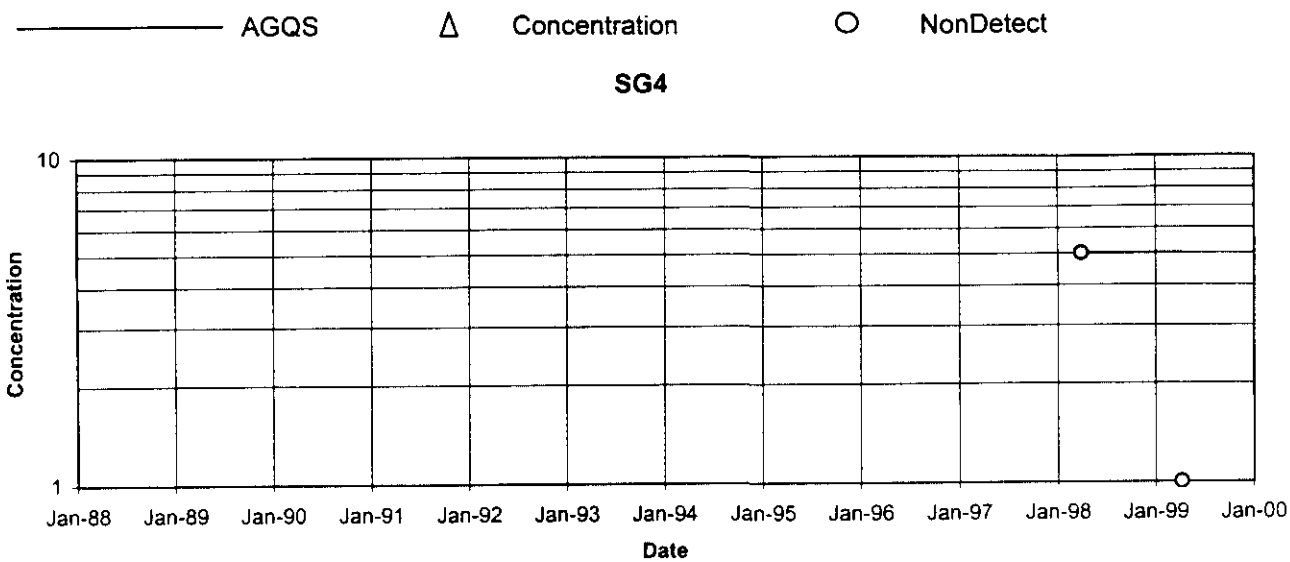
SG1



SG3



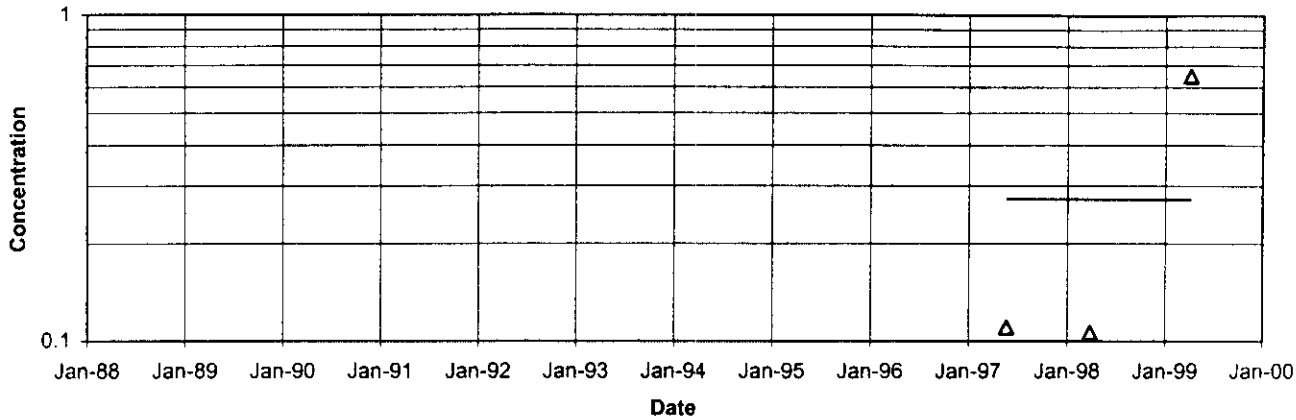
Ethylbenzene (ug/L)



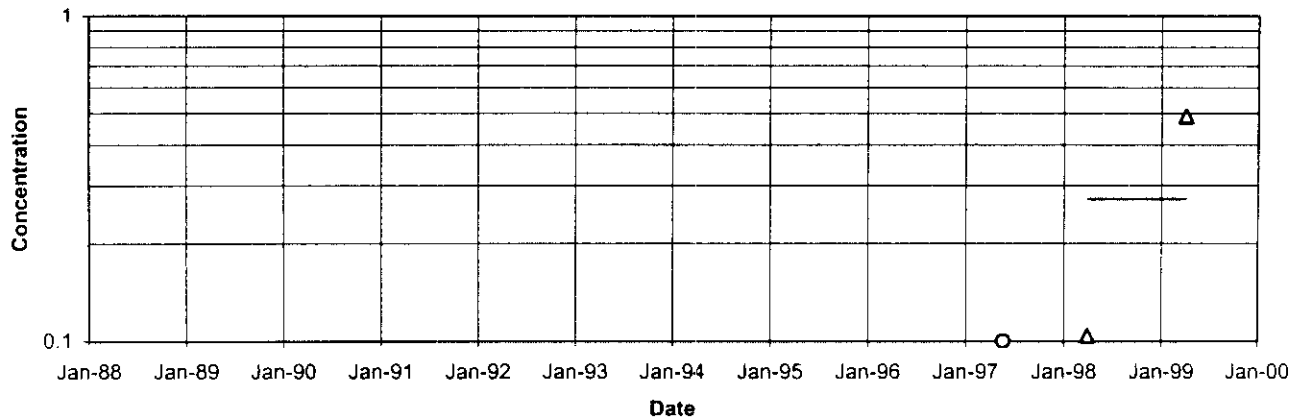
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

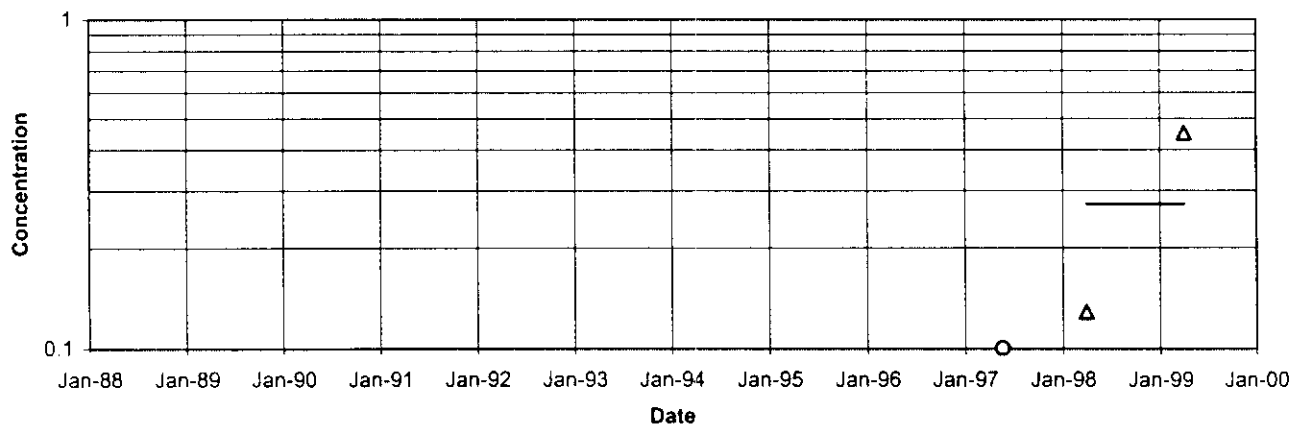
B15R



G109



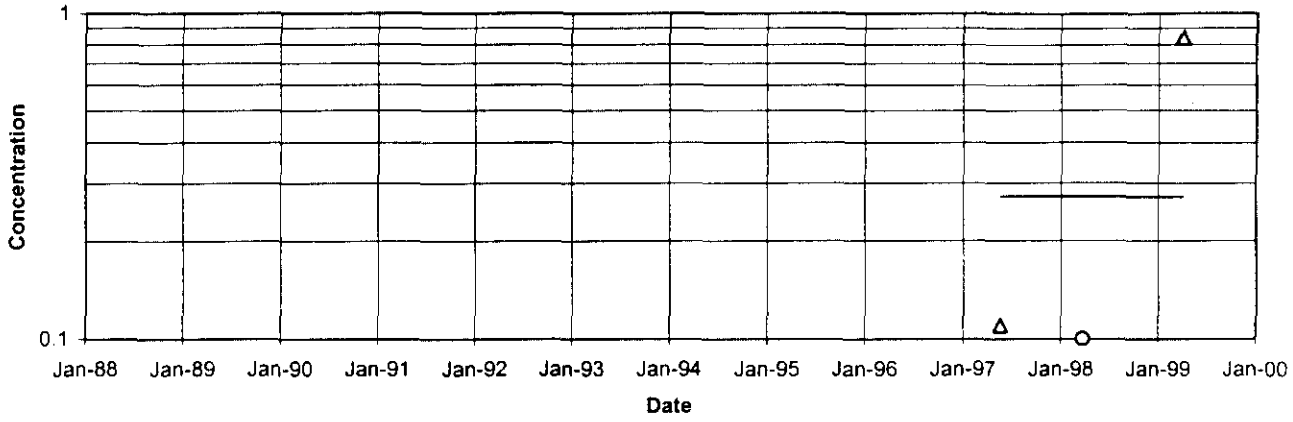
G109A



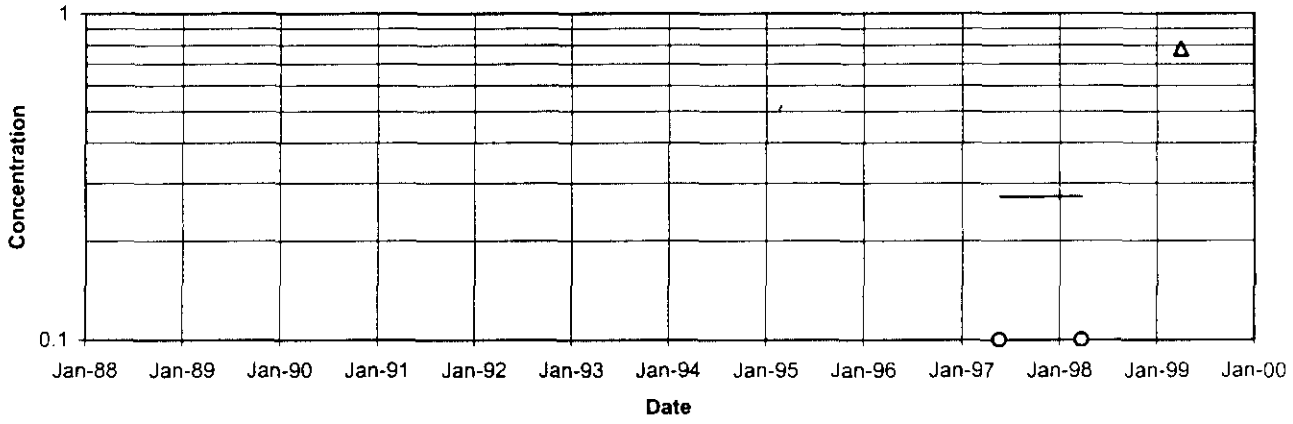
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

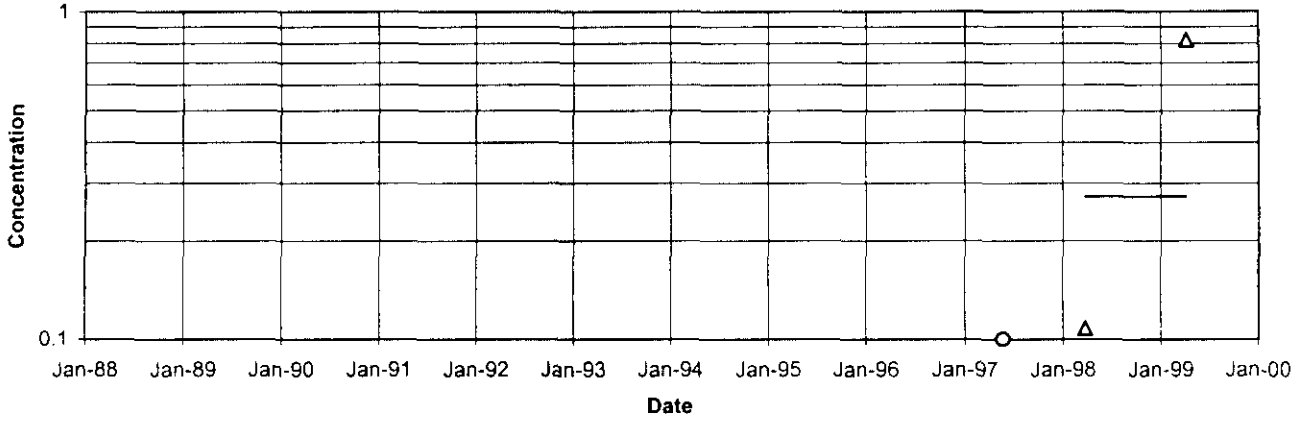
G113



G113A



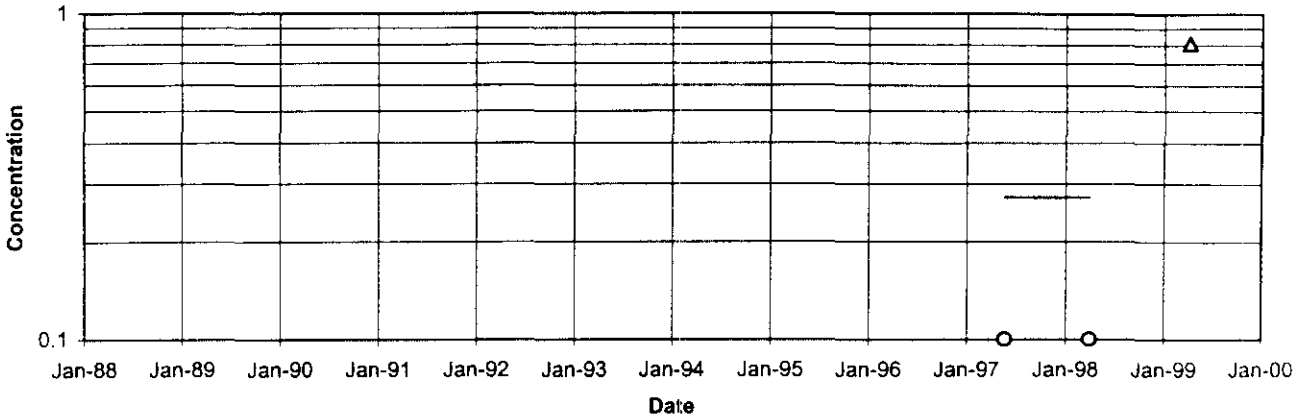
G114



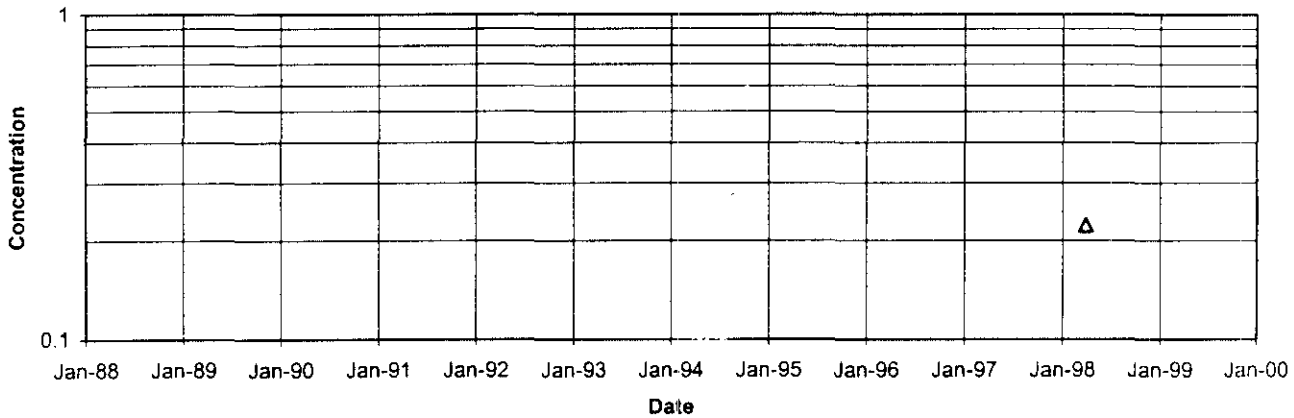
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

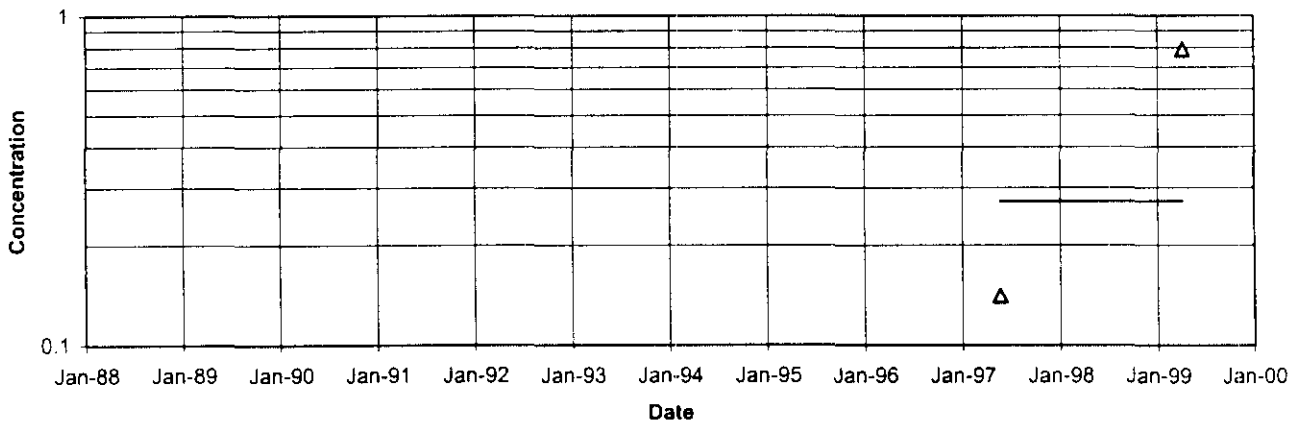
G115



G116



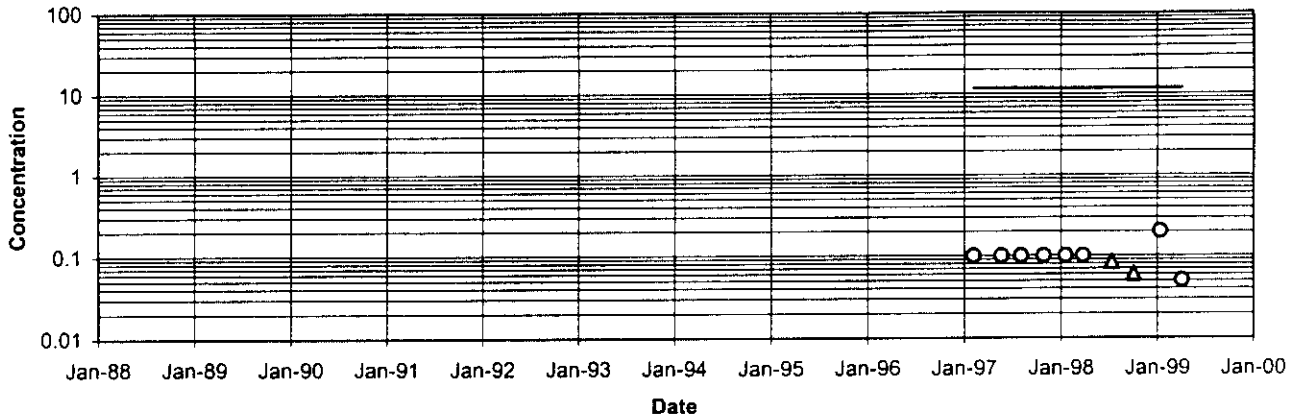
G116A



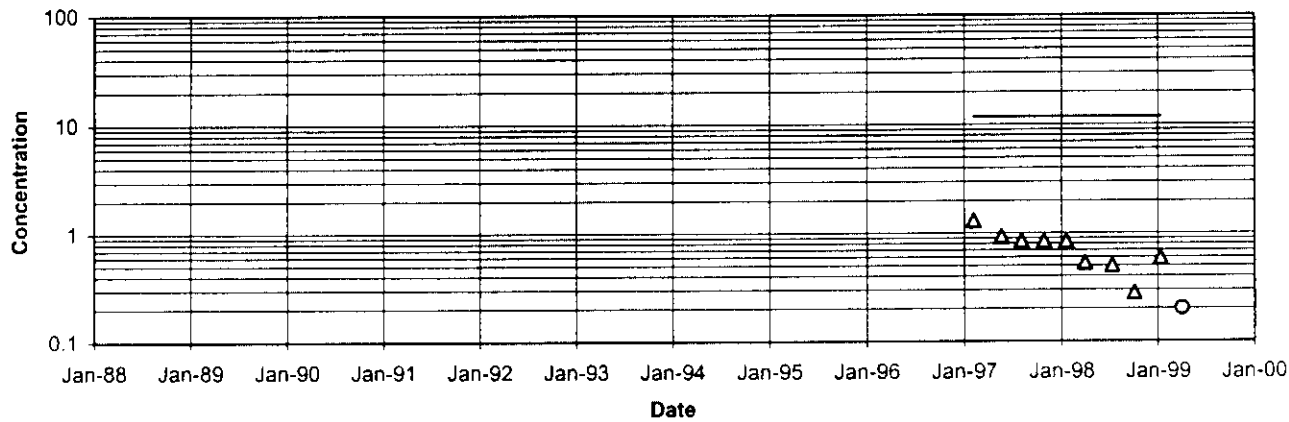
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

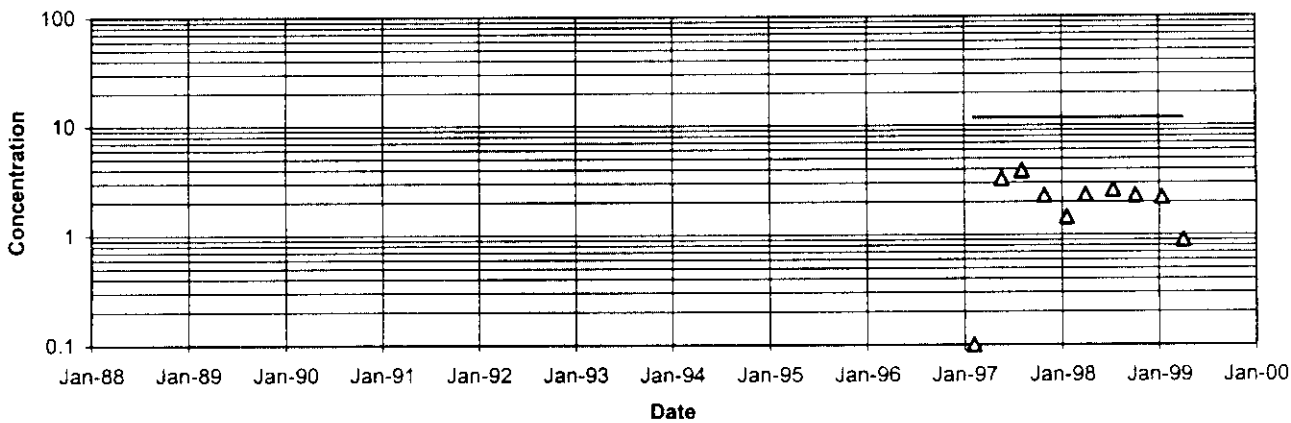
B15R



G109



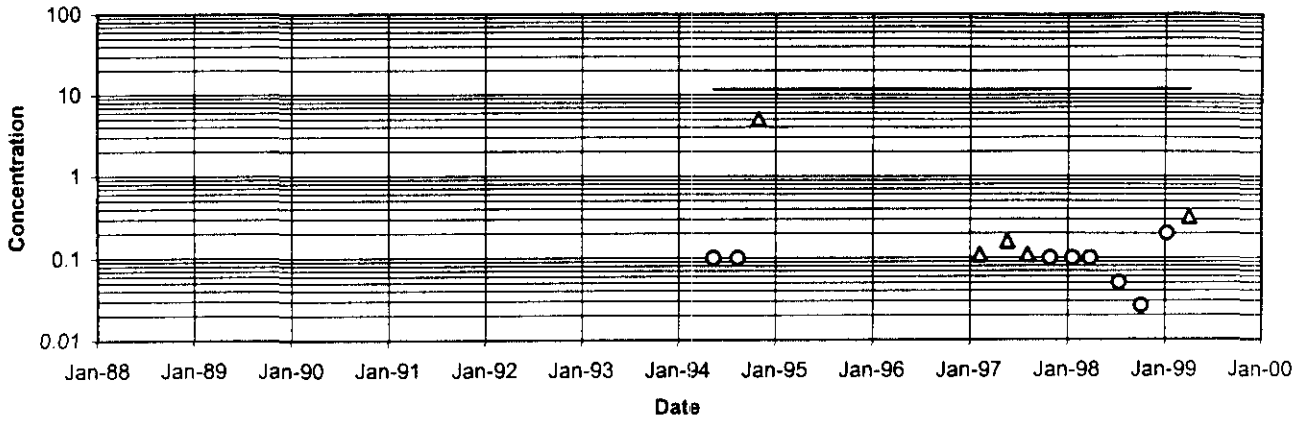
G109A



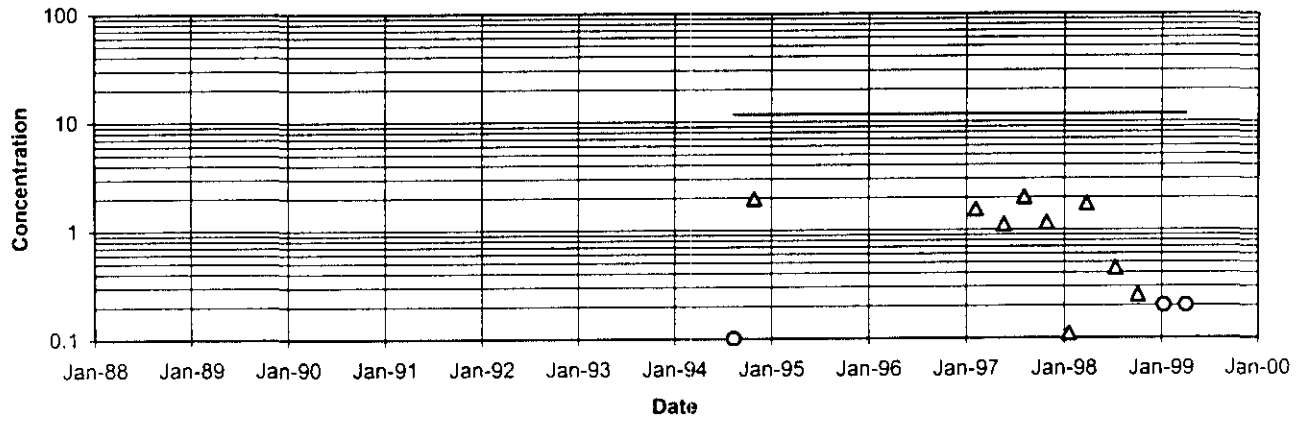
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

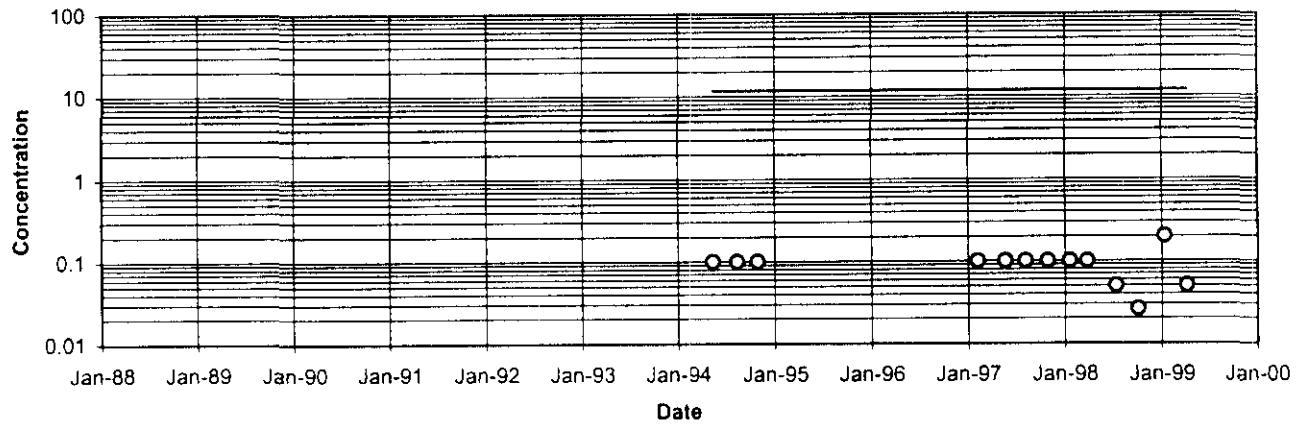
G113



G113A



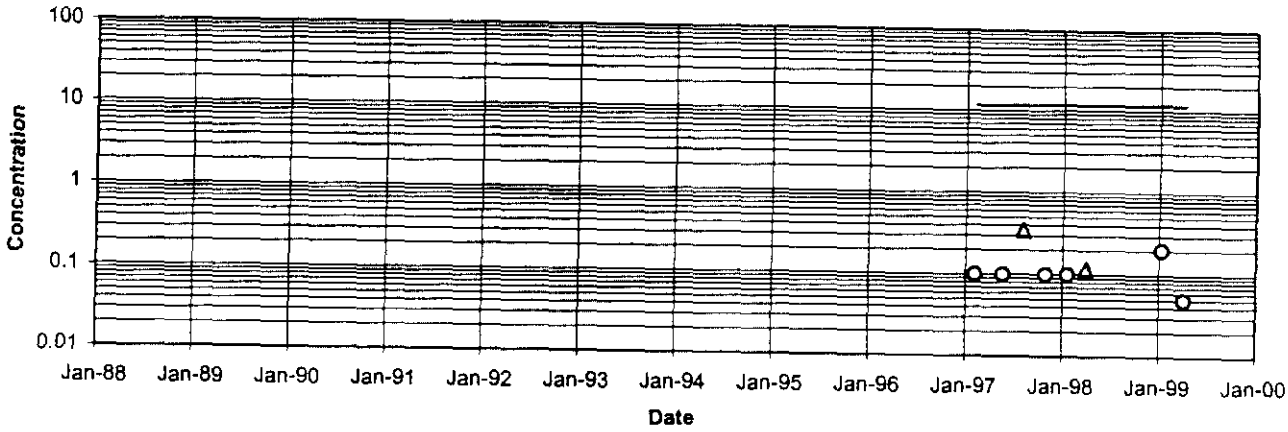
G114



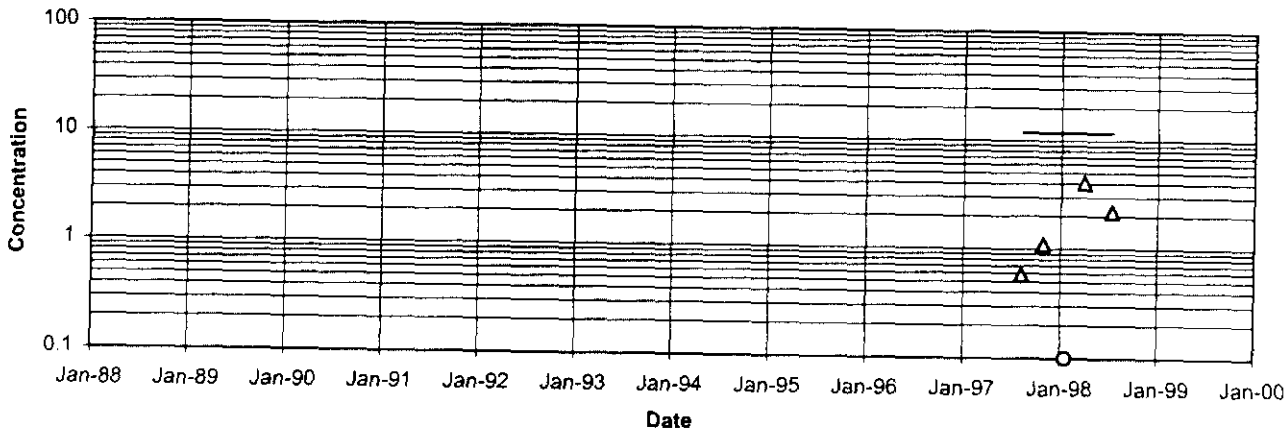
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

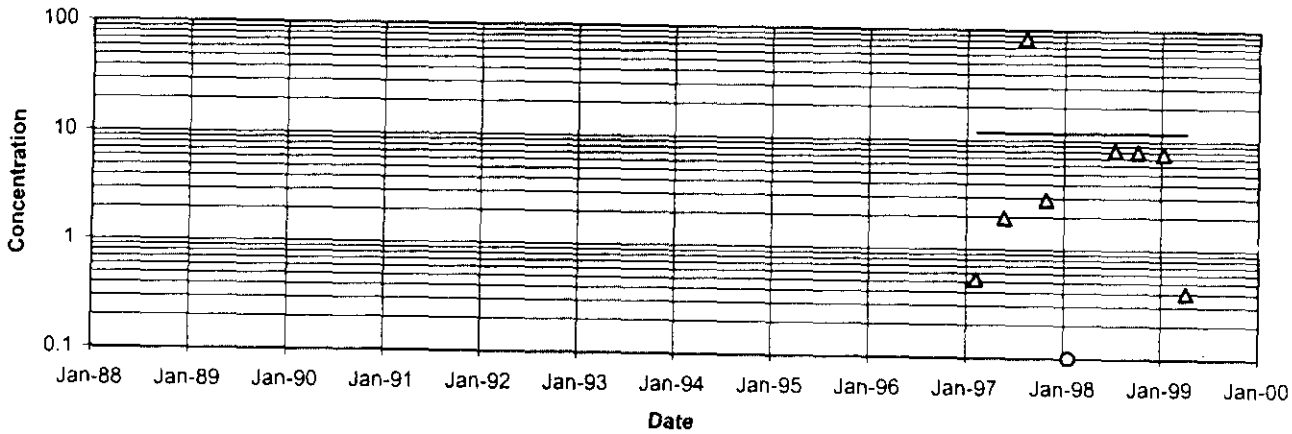
G115



G116



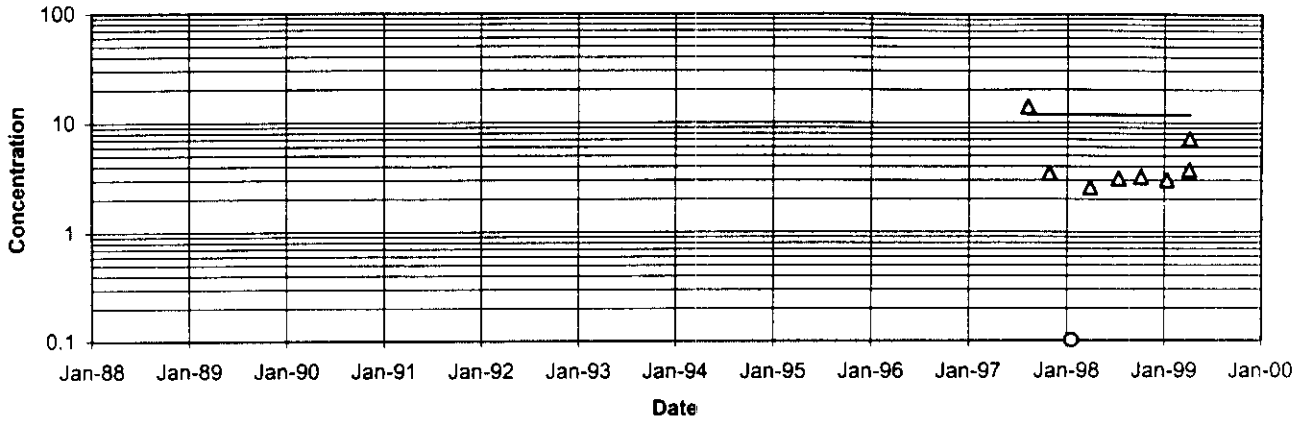
G116A



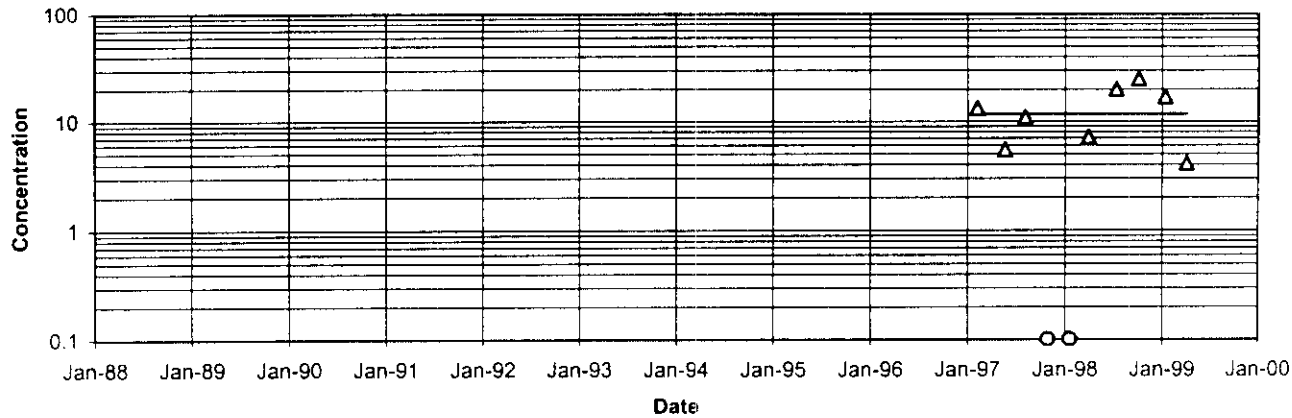
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

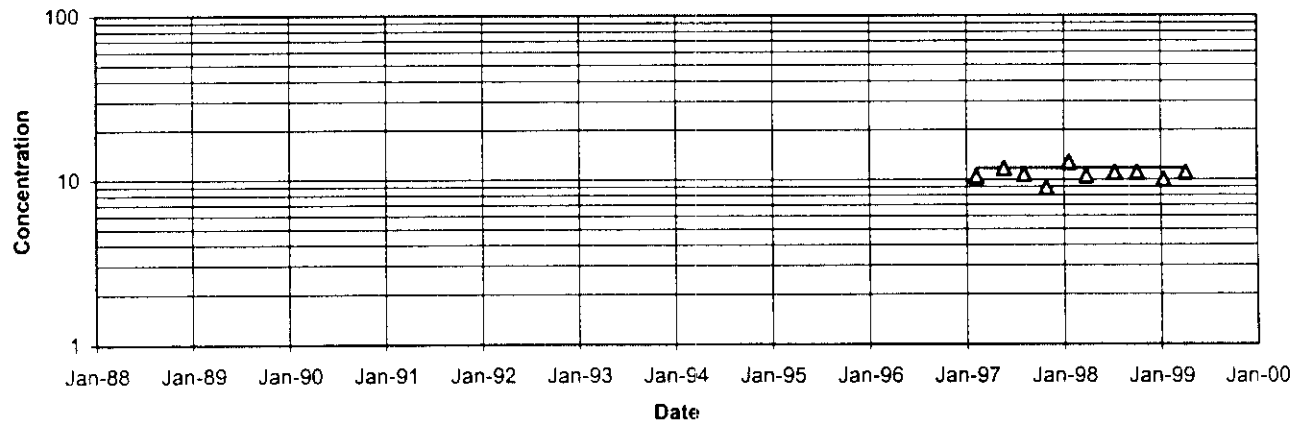
G116D



G117



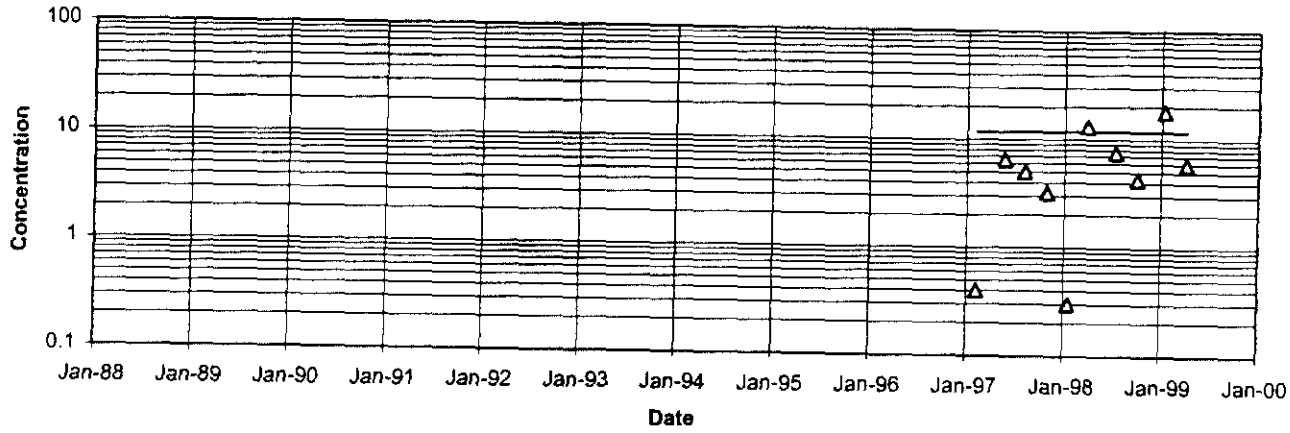
G118A



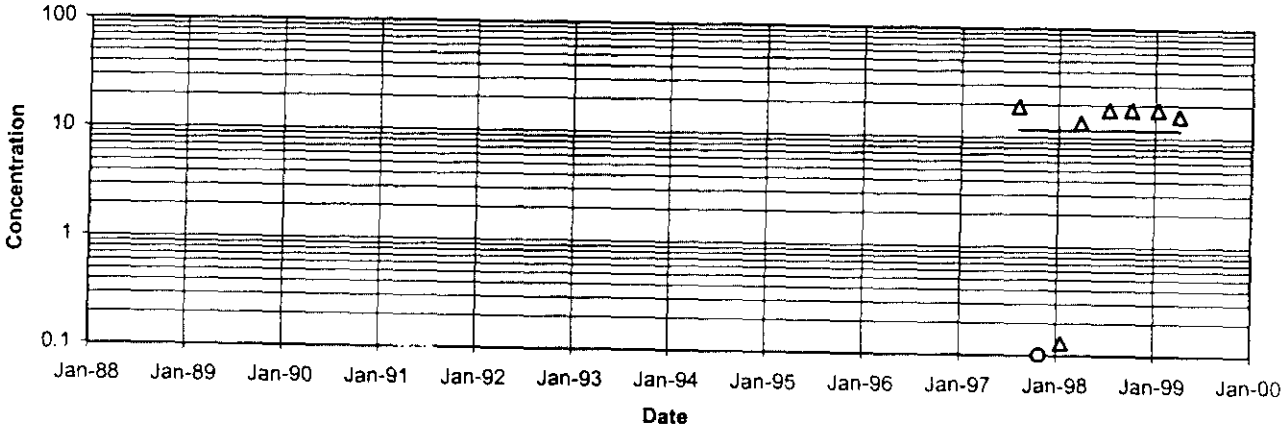
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

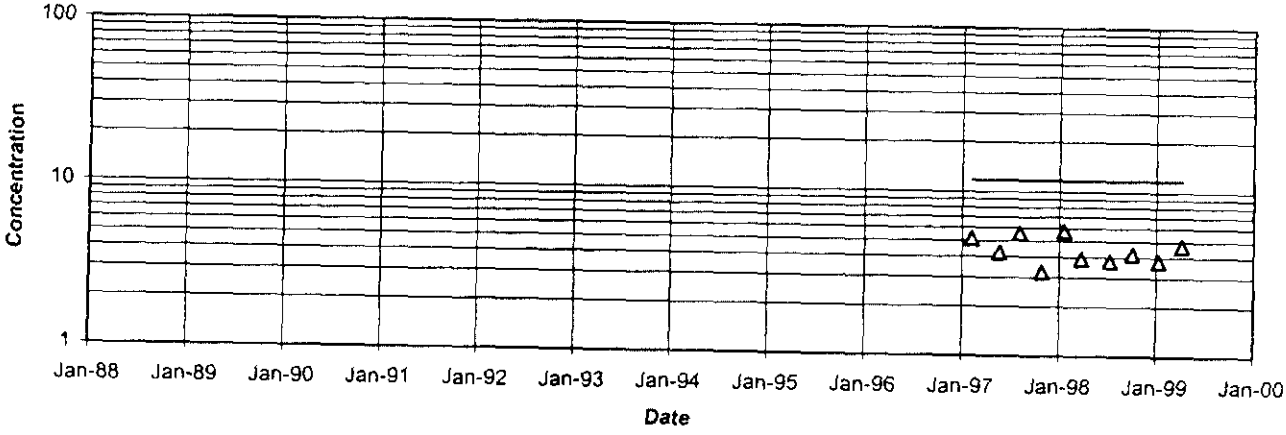
G118R



G119



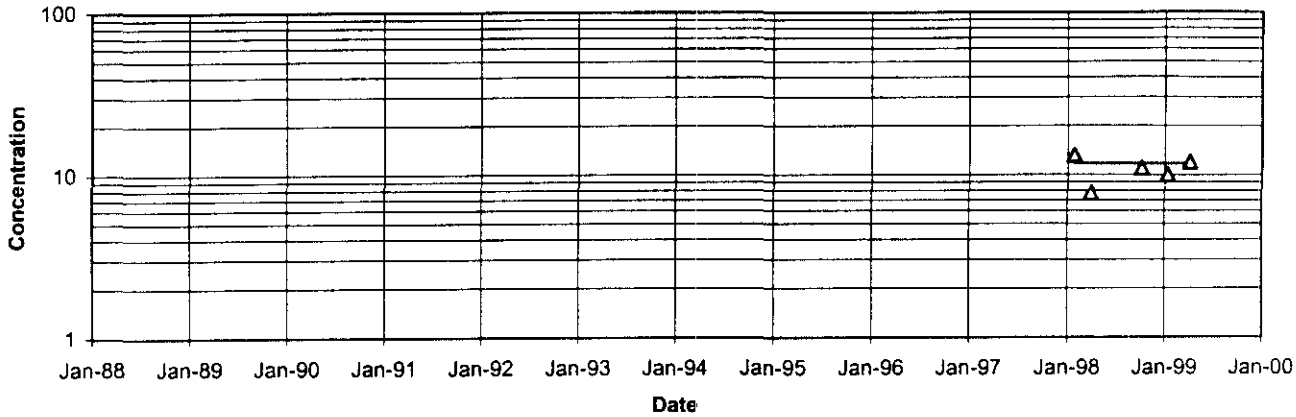
G120B



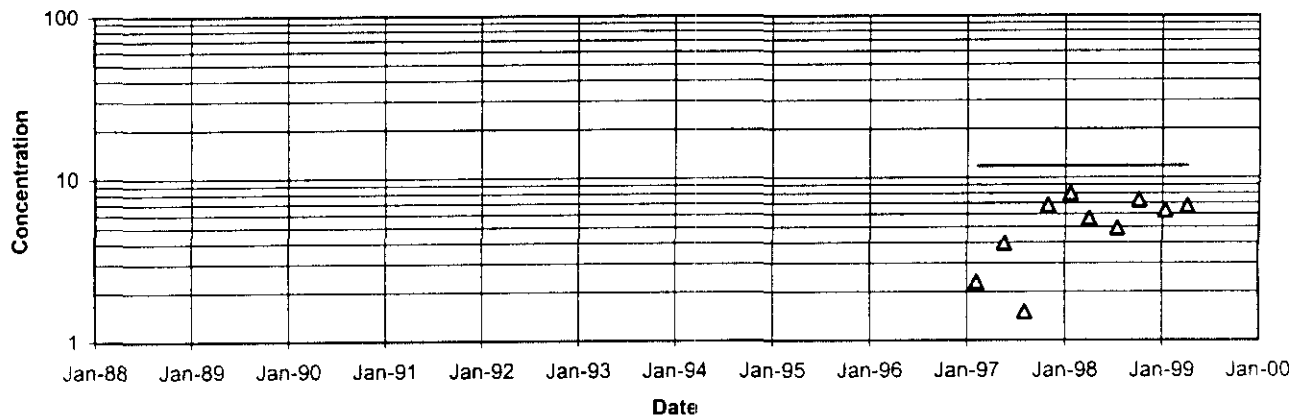
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

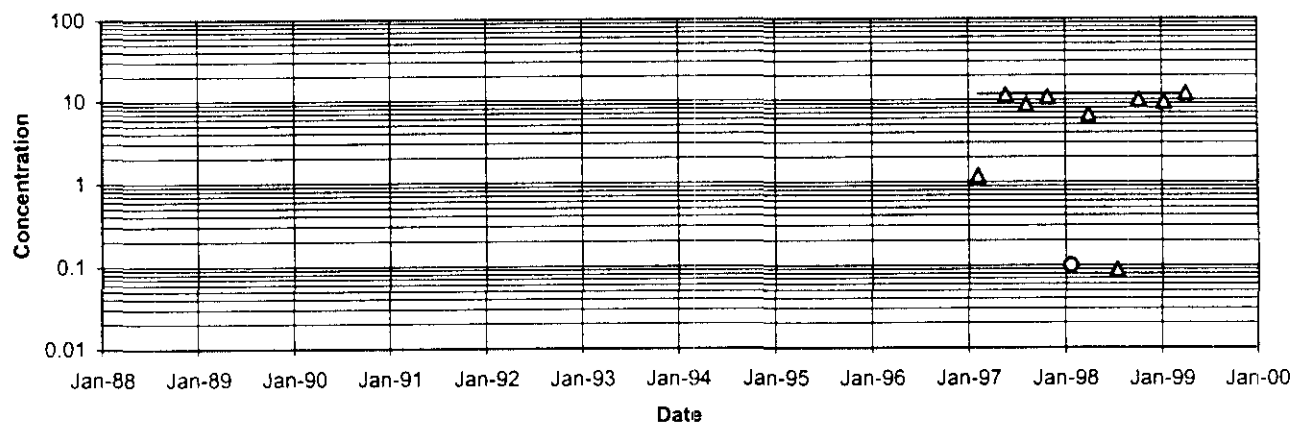
G130



G132



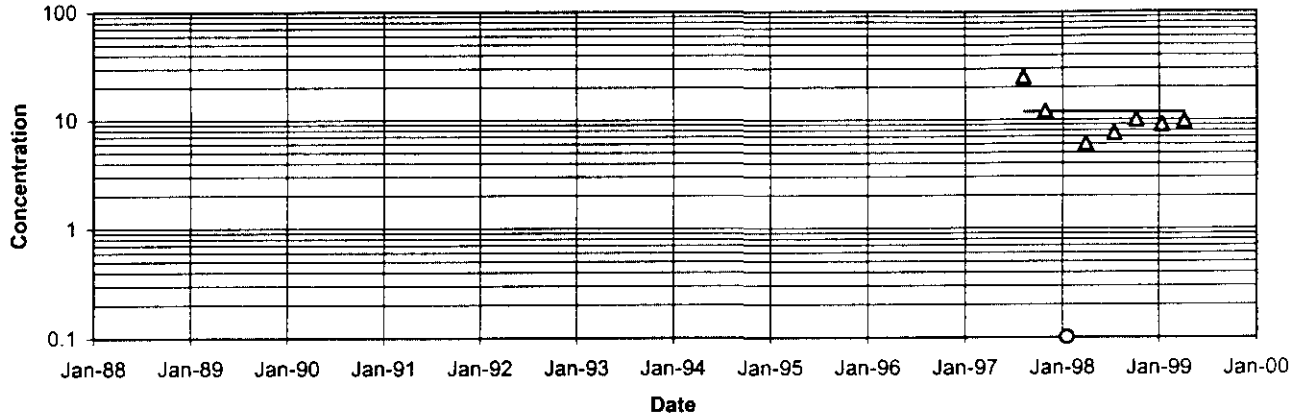
G33D



Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

G33S



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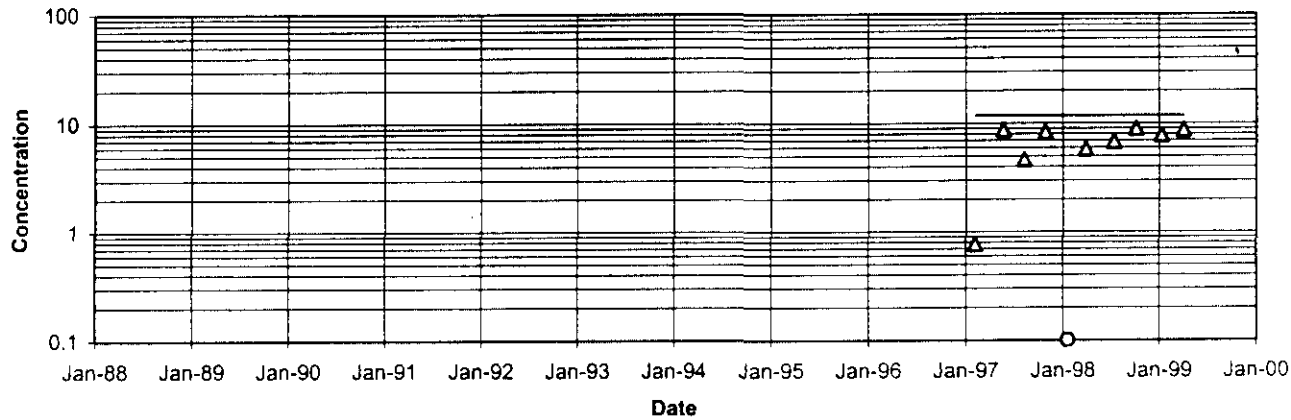
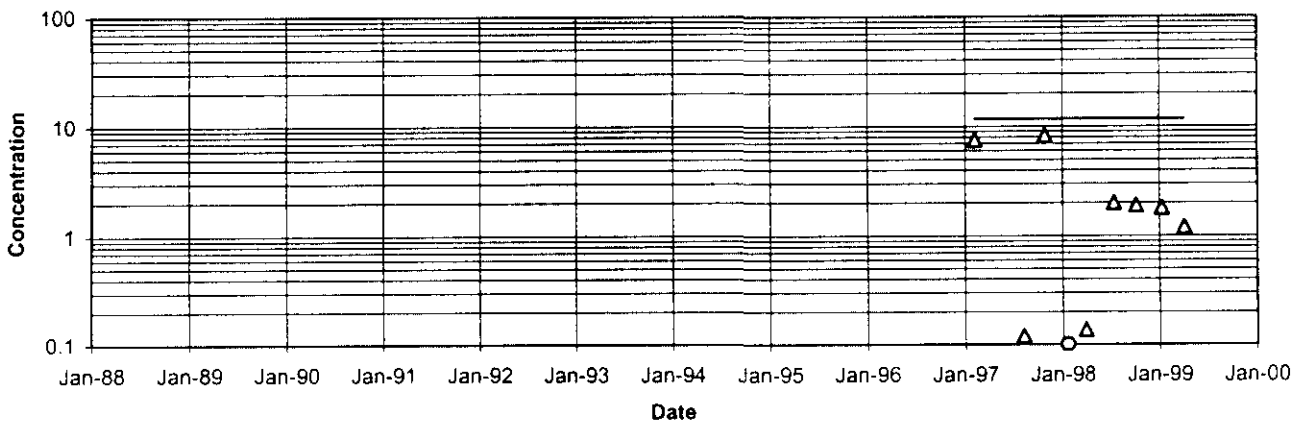


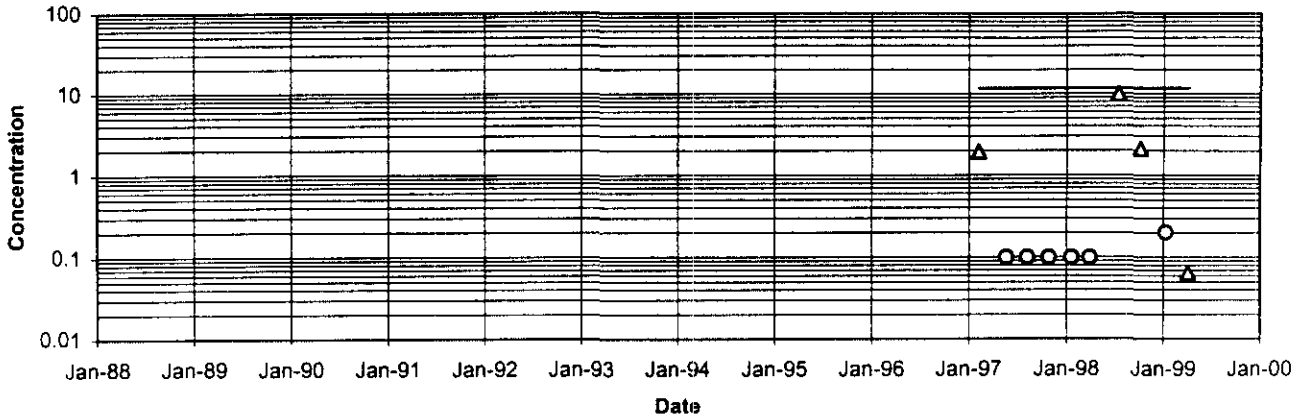
G34S



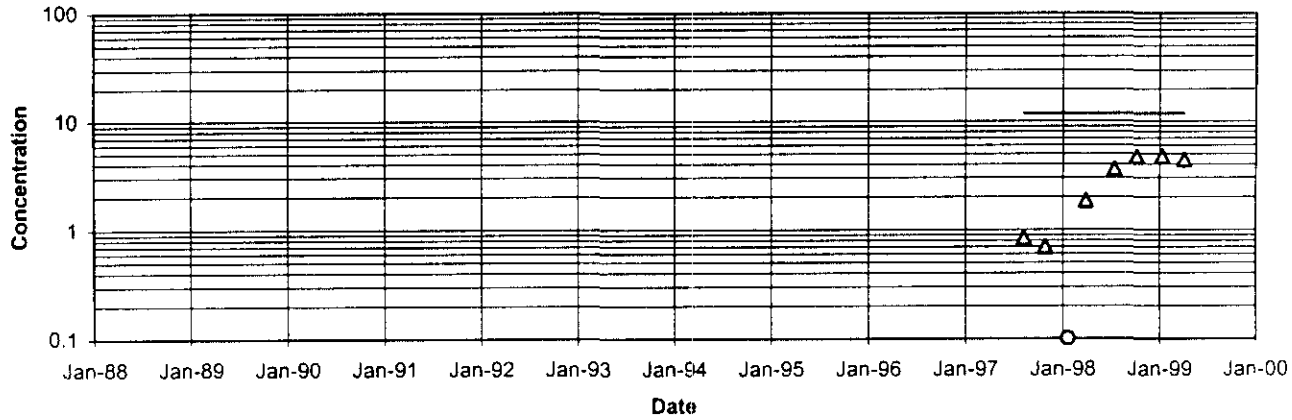
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

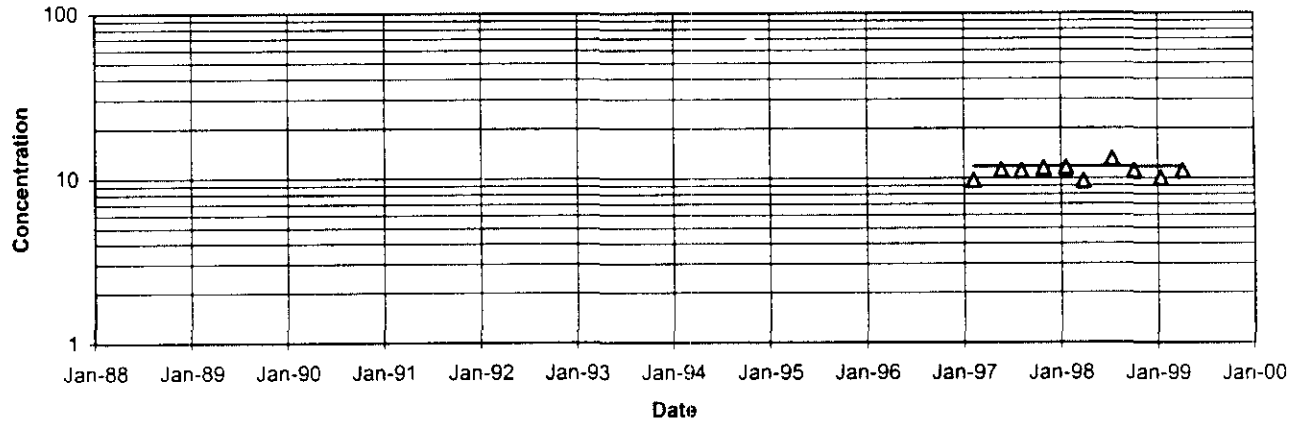
G35D



G35S



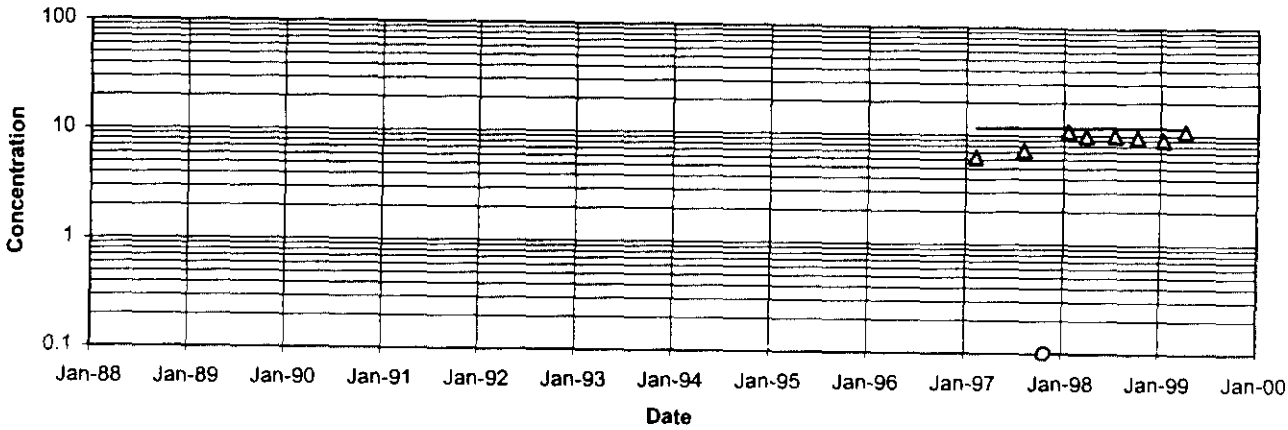
G36



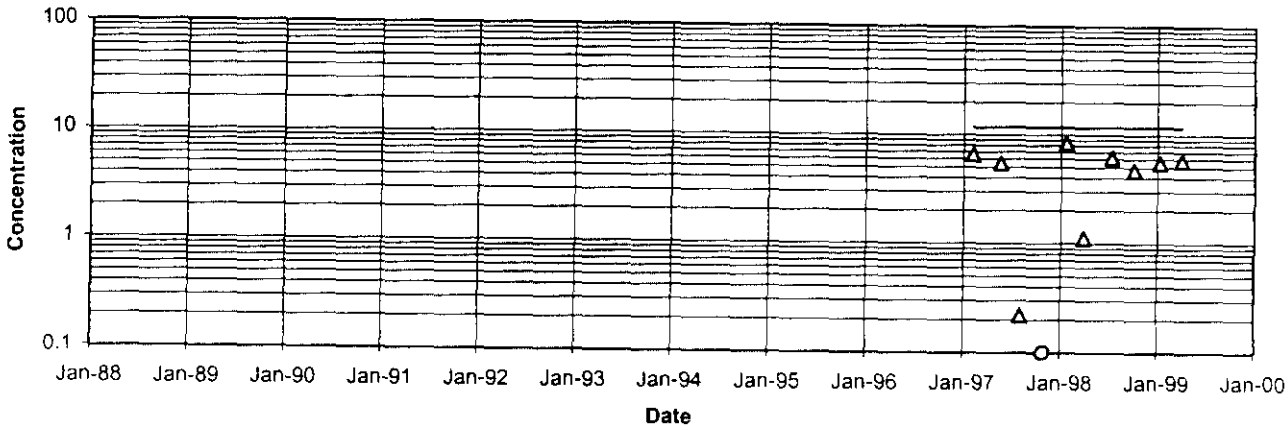
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

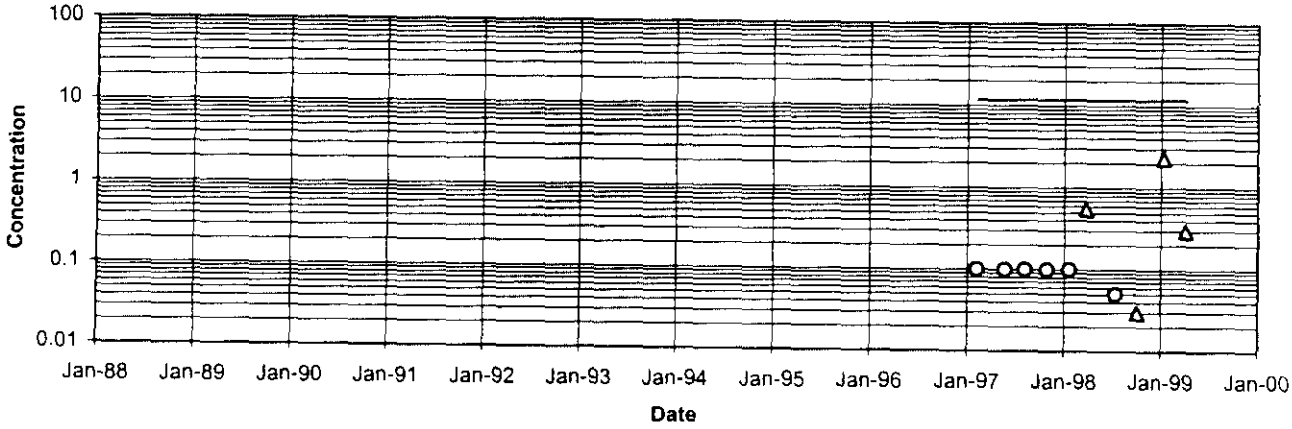
G37D



G37S



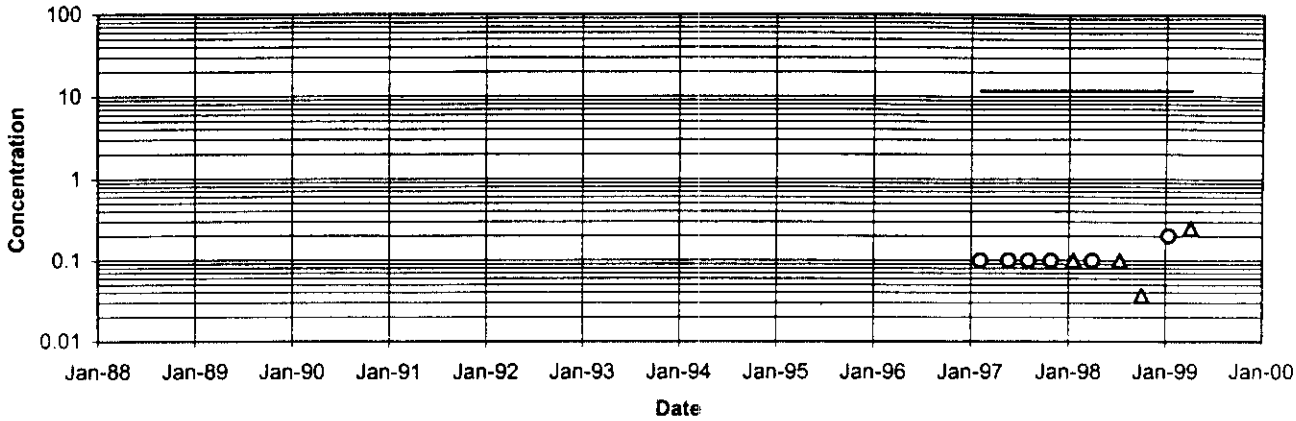
G38



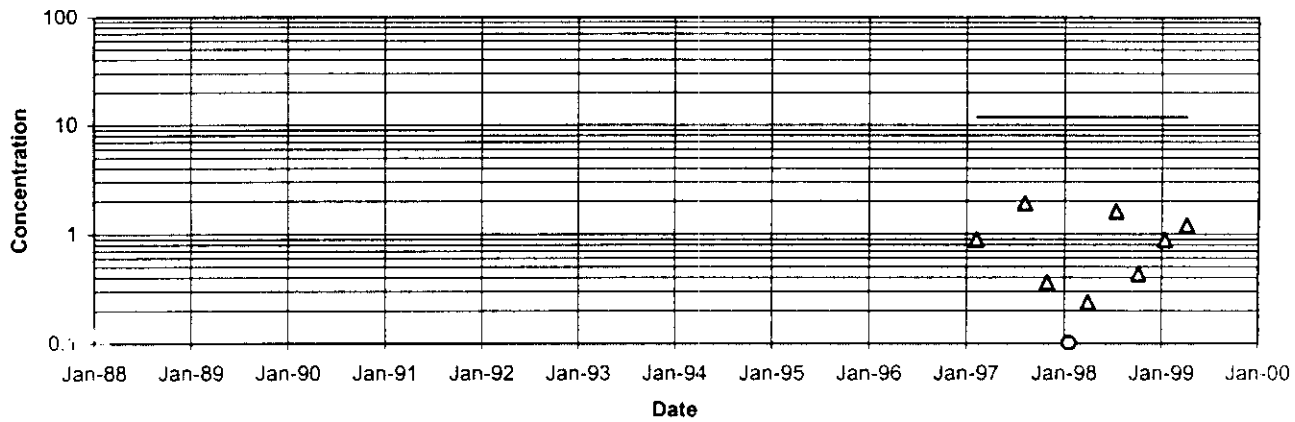
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

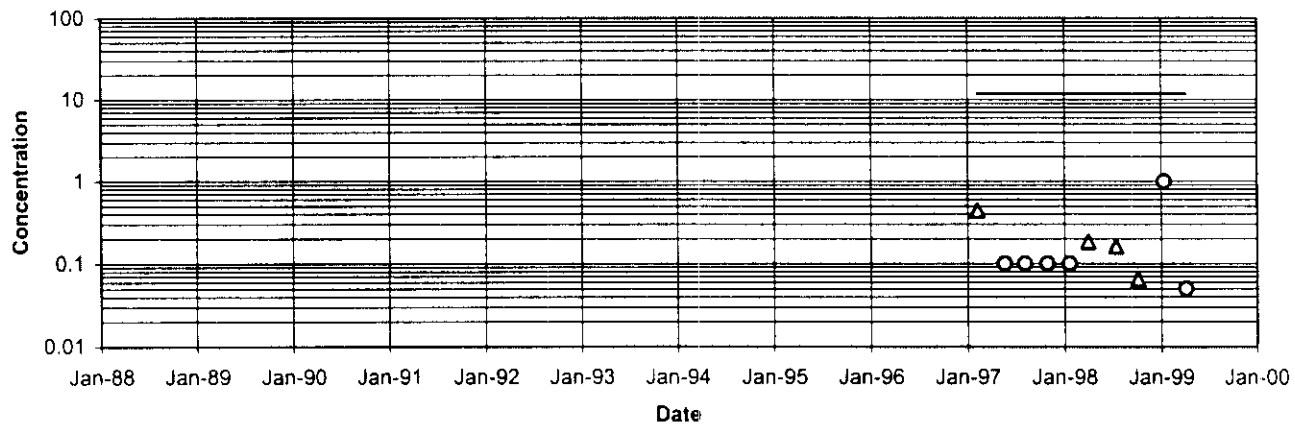
G39



G40



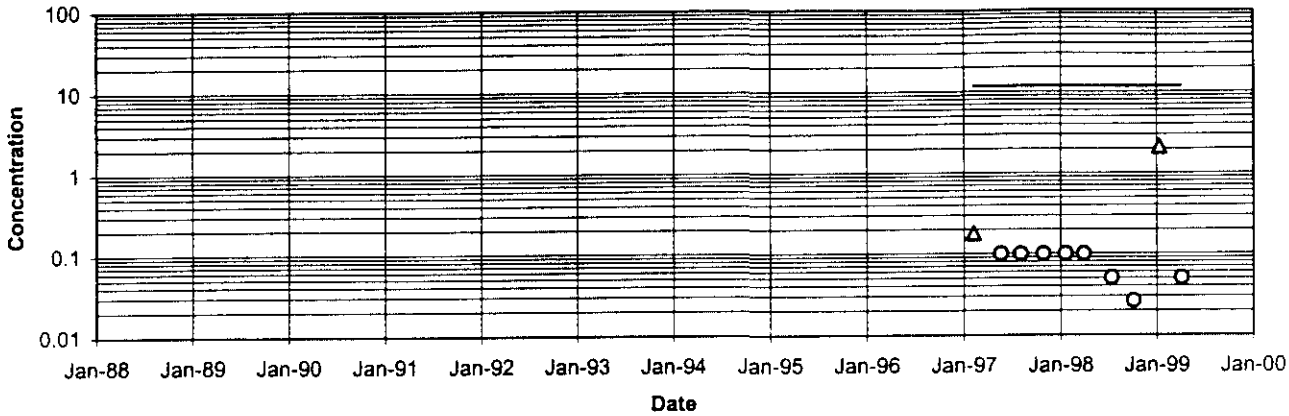
MW106



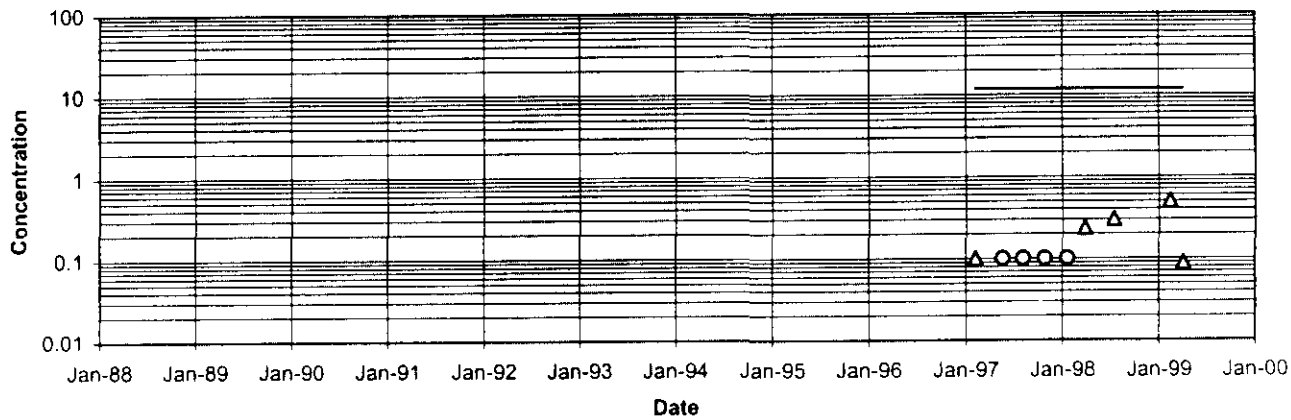
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

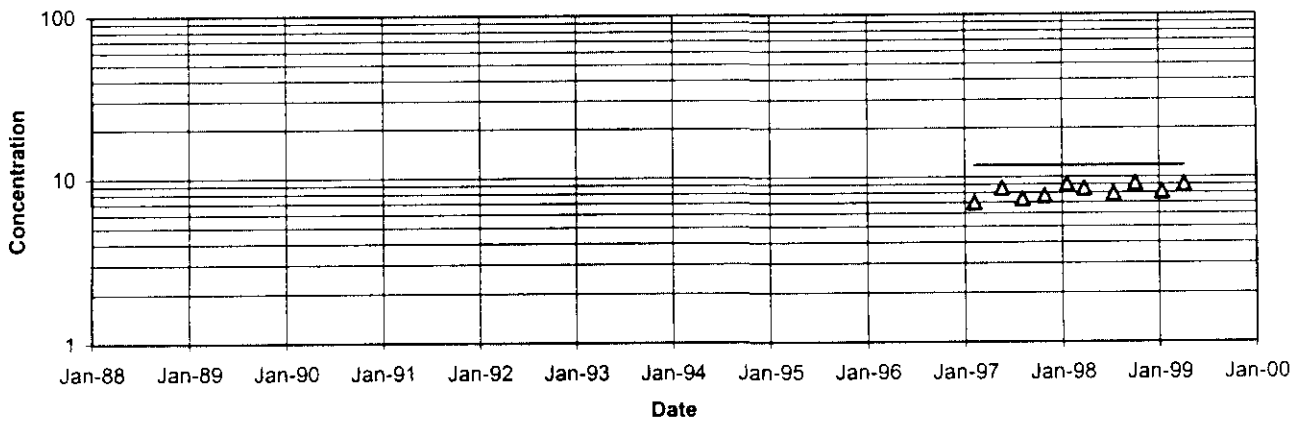
P1



P3R



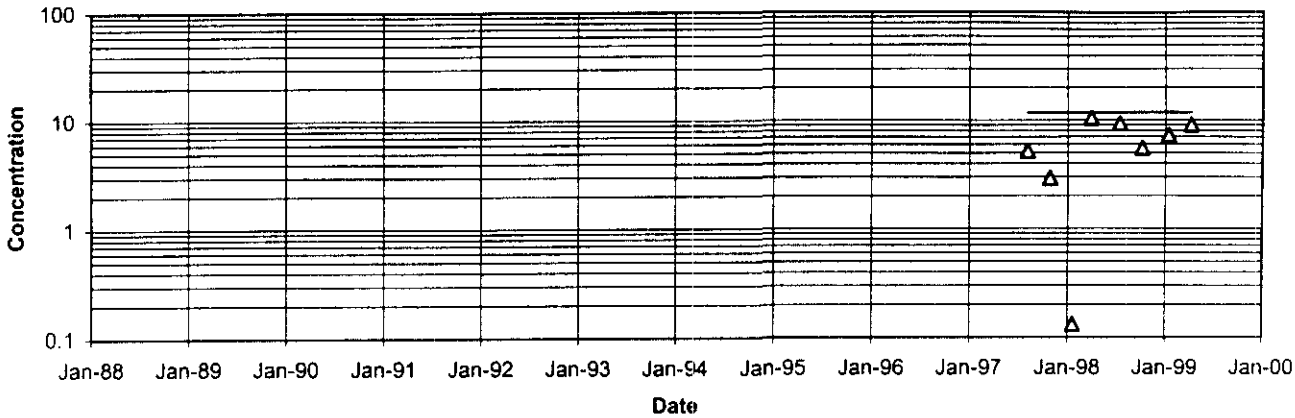
P4R



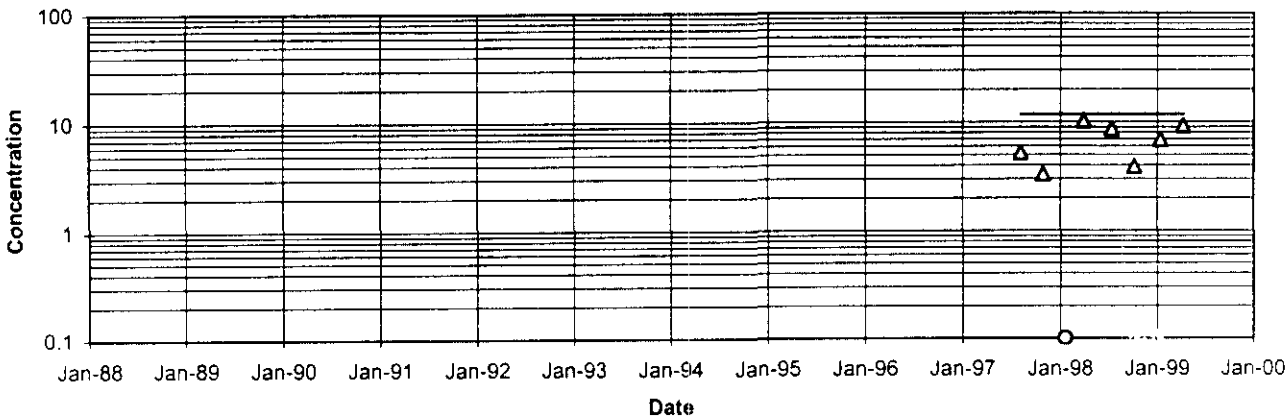
Nitrate Nitrogen (dis) (mg/L)

AGQS Δ Concentration O NonDetect

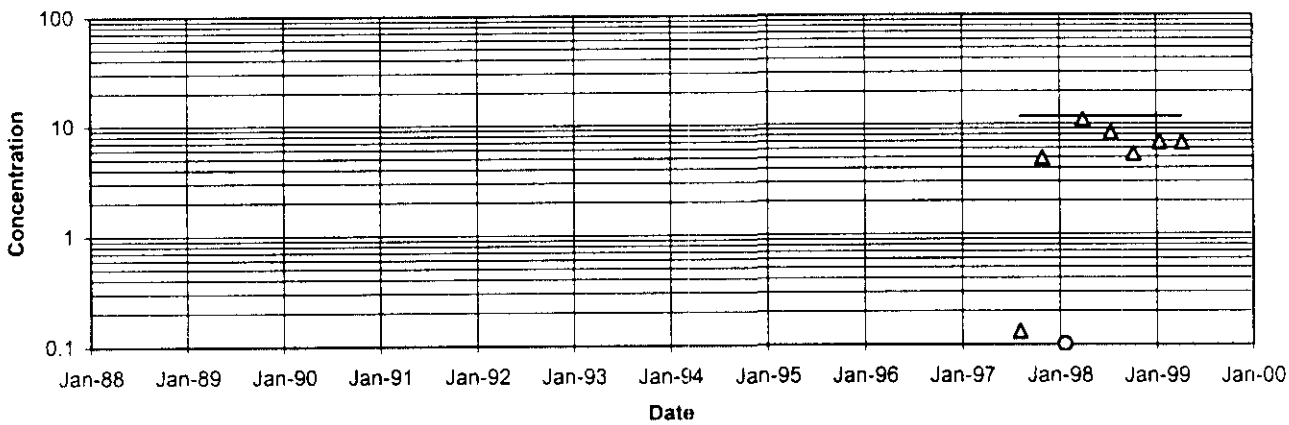
SG1



SG3



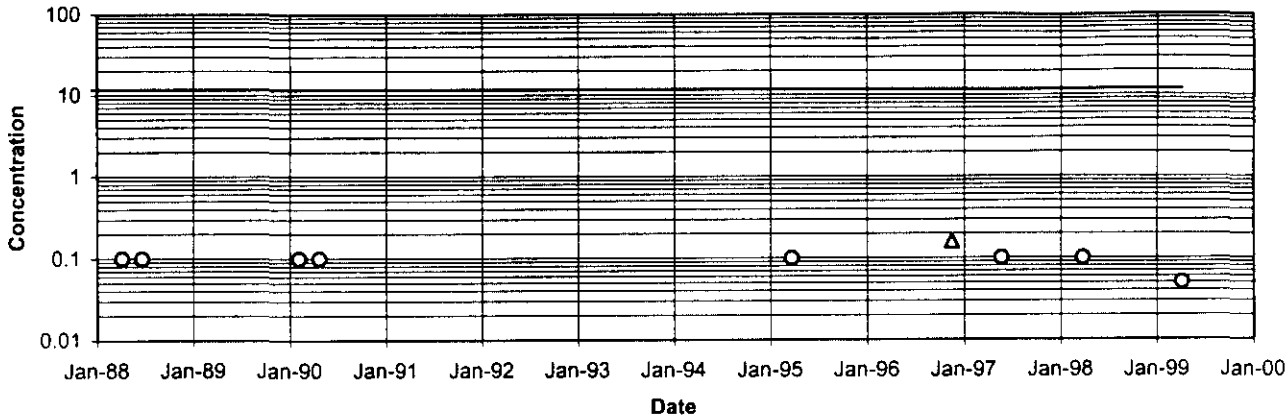
SG4



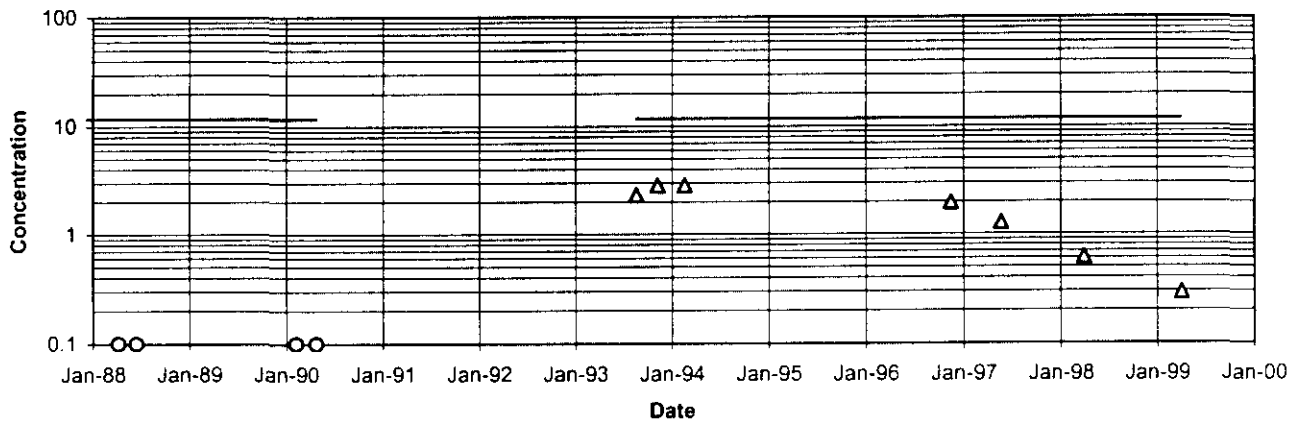
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

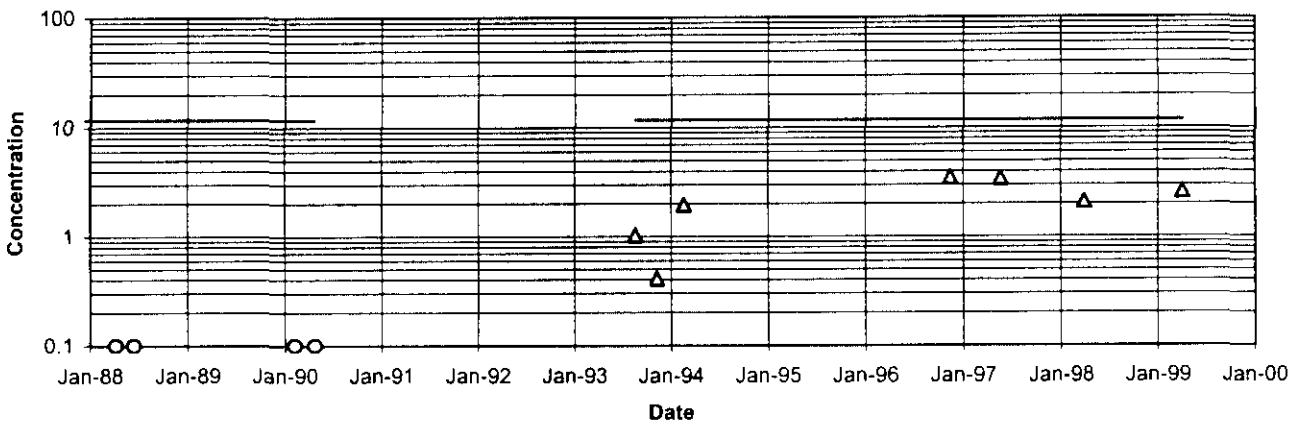
B15R



G109



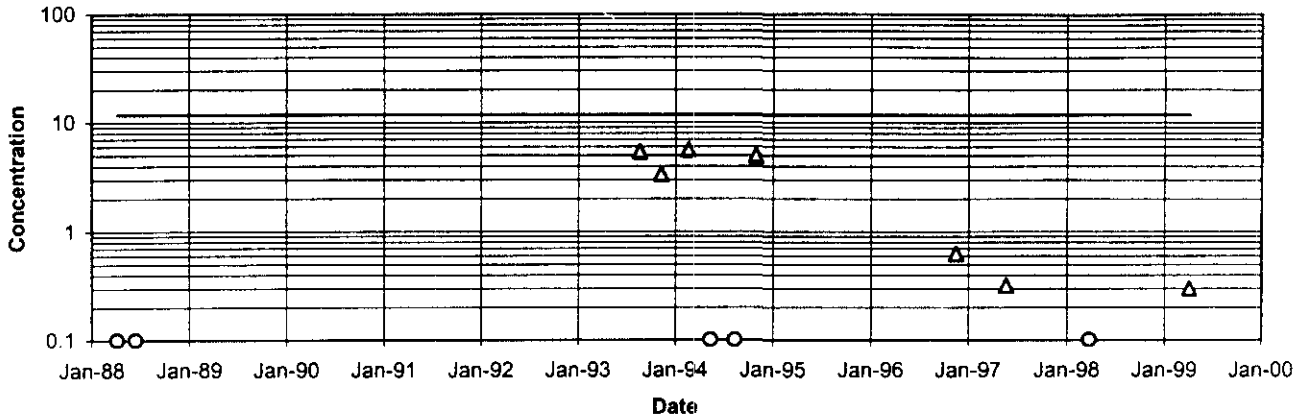
G109A



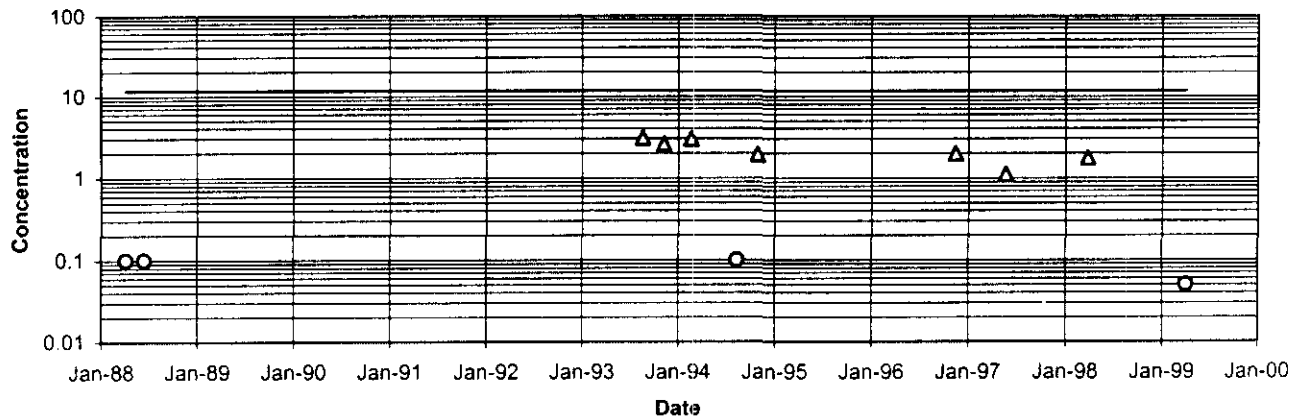
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

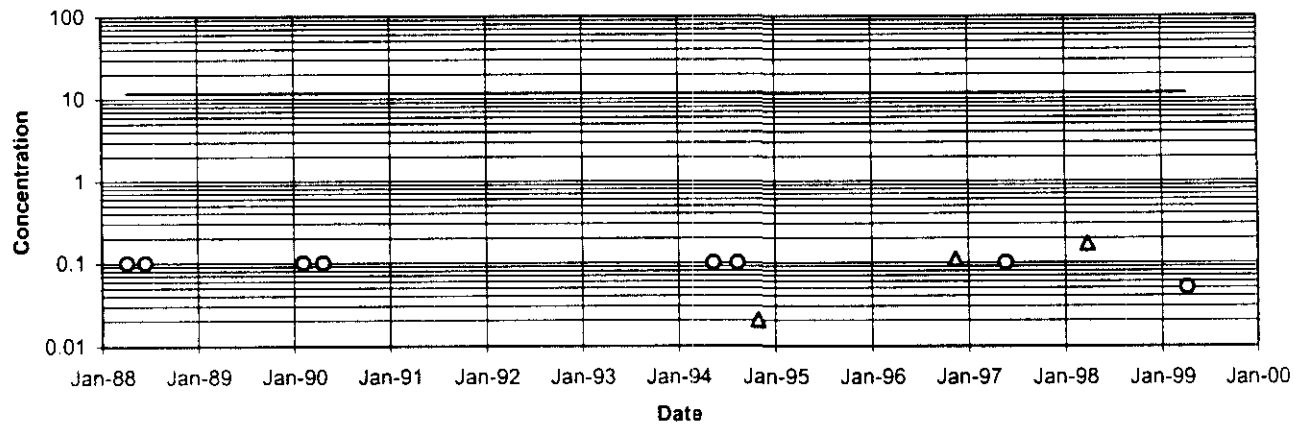
G113



G113A



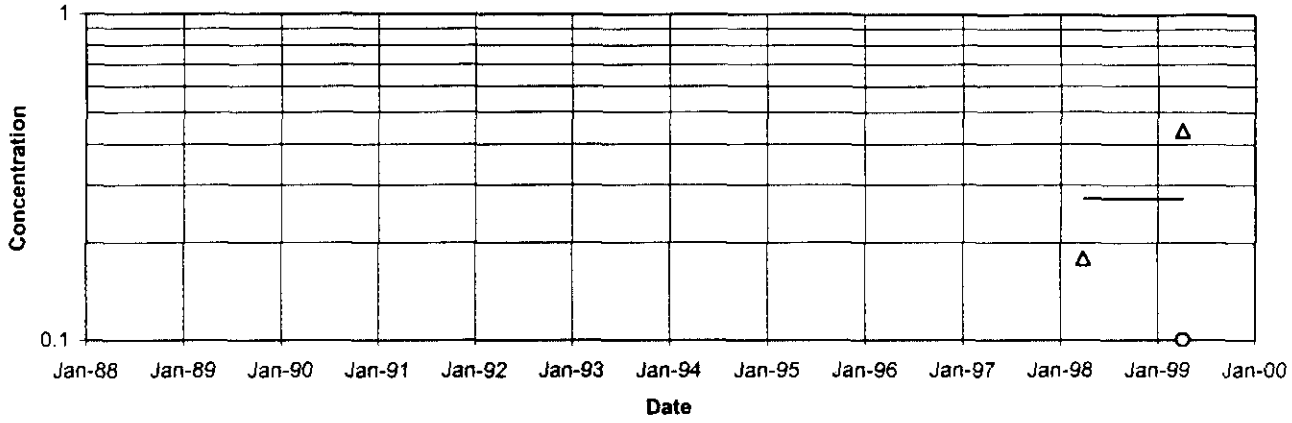
G114



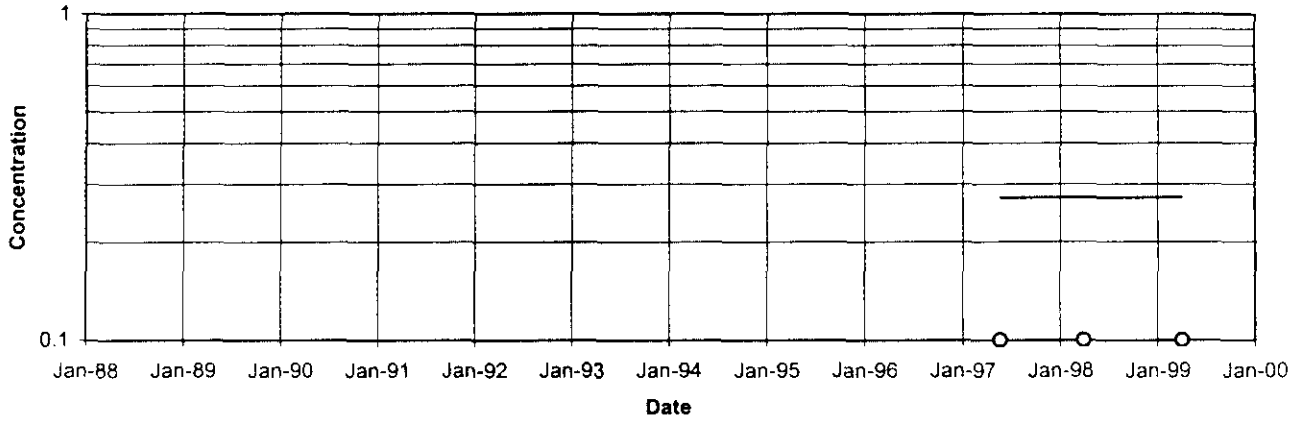
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

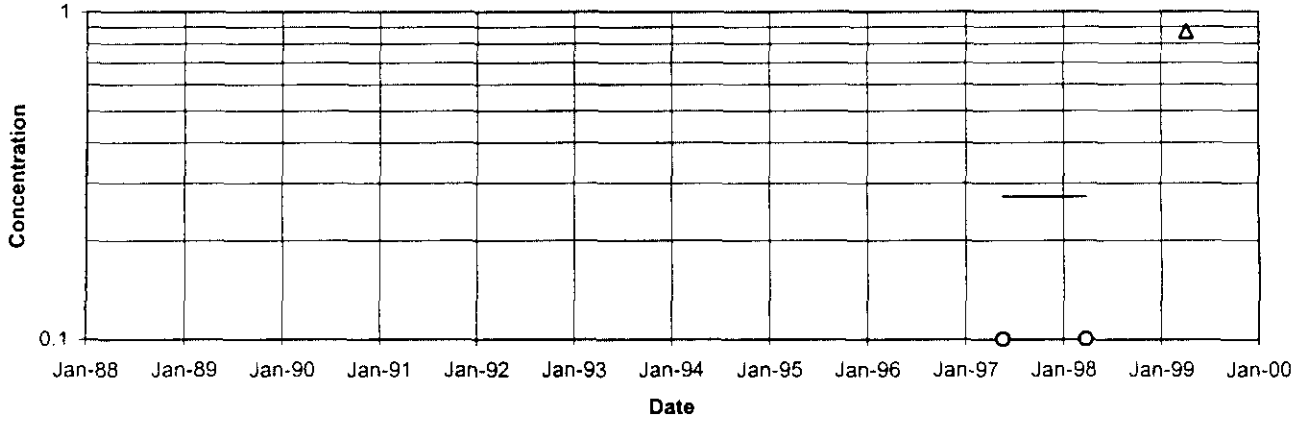
G116D



G117



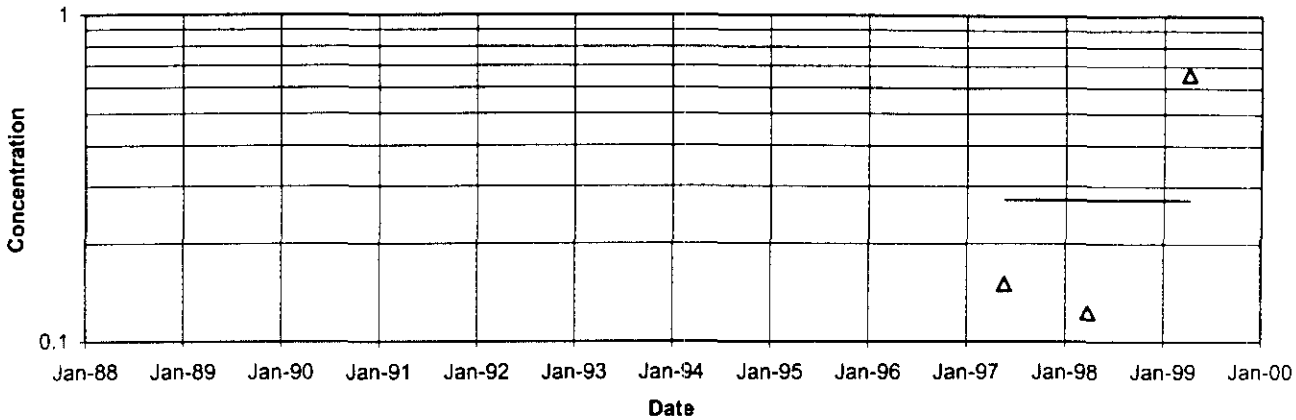
G118A



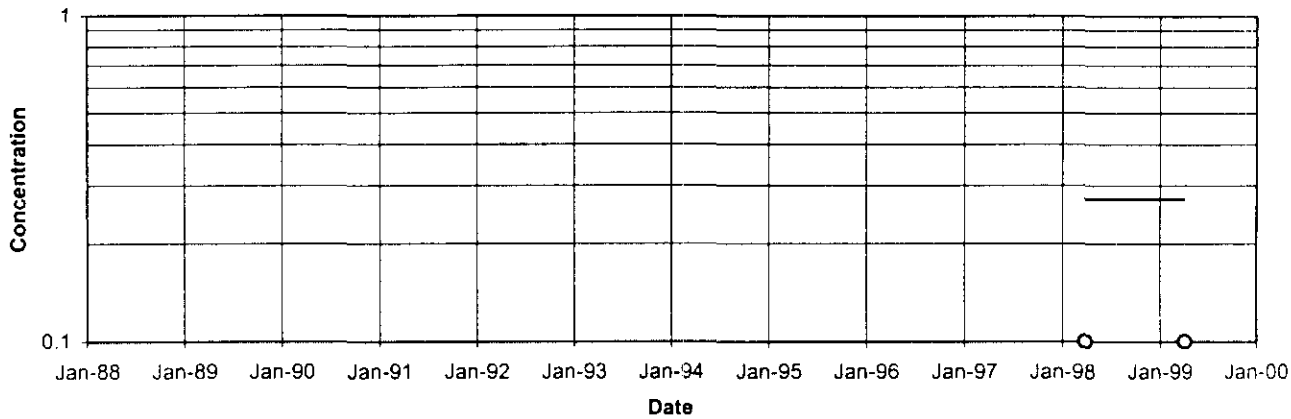
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

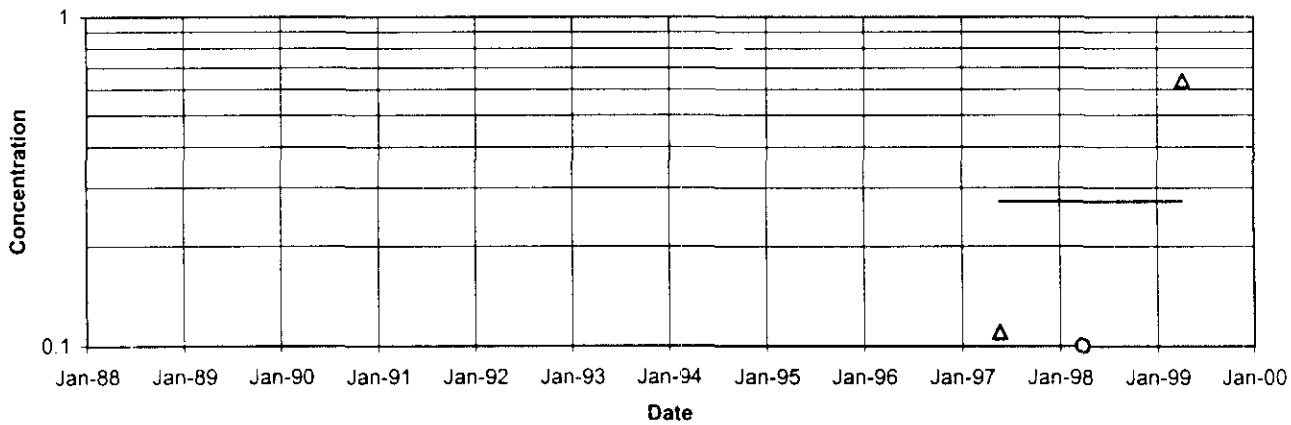
G118R



G119



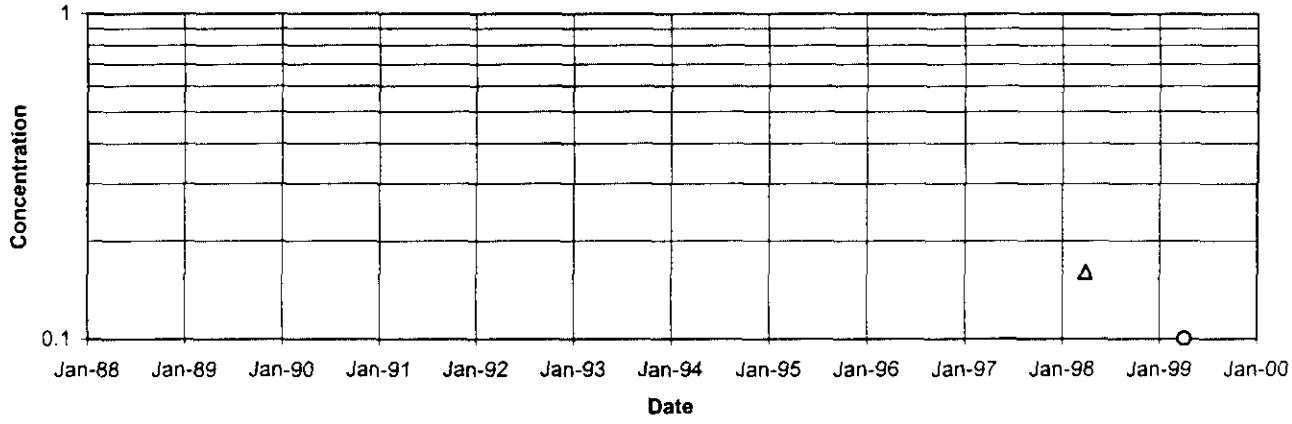
G120B



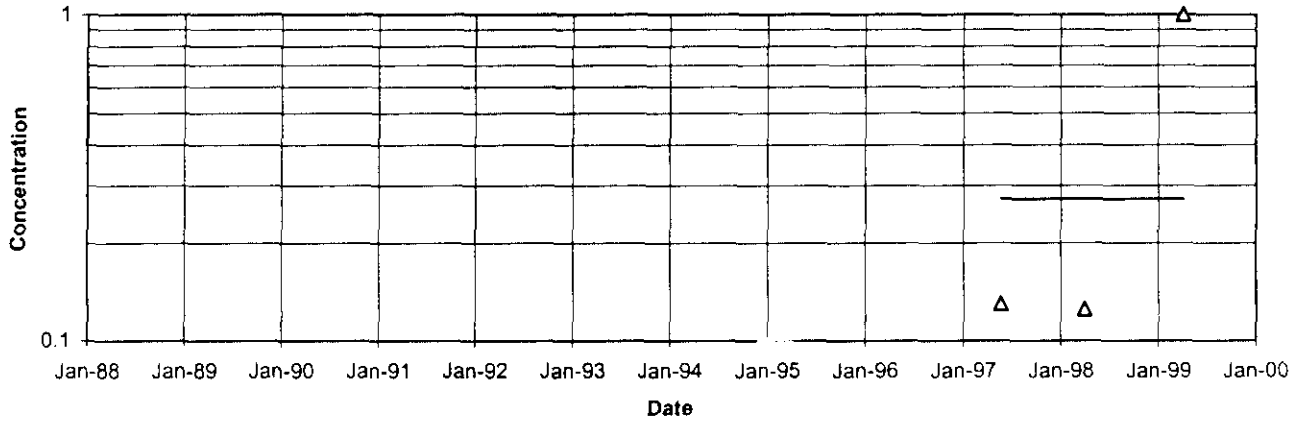
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

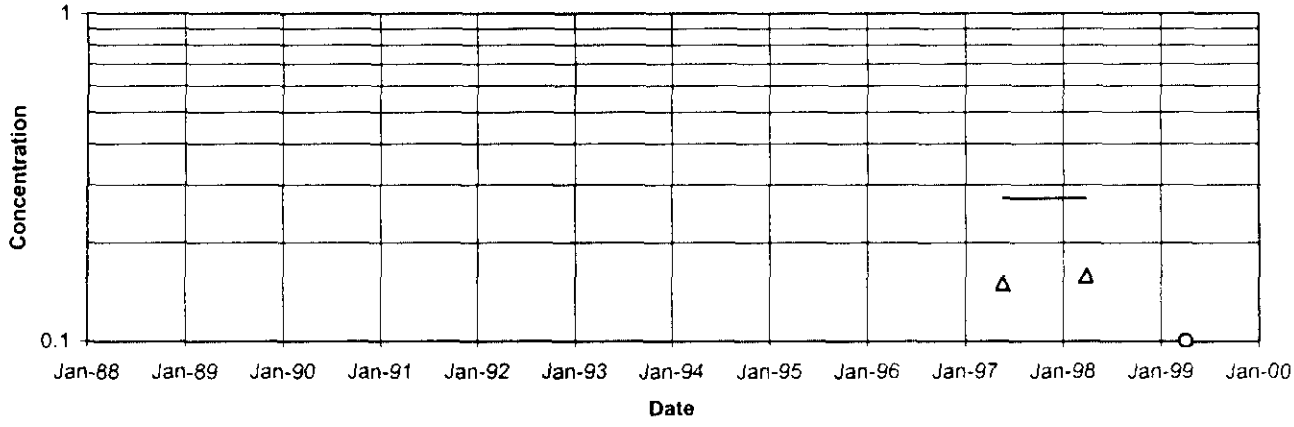
G130



G132



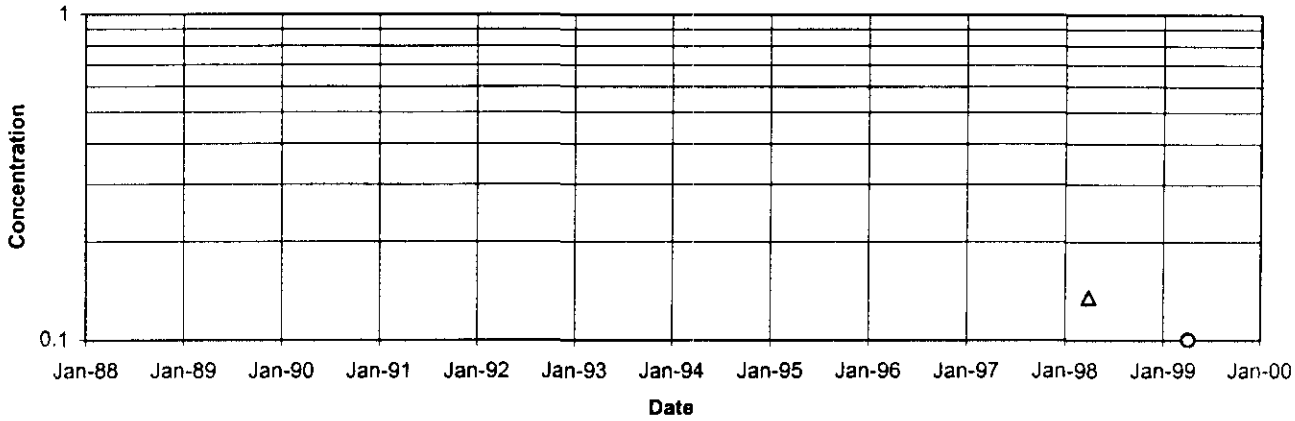
G33D



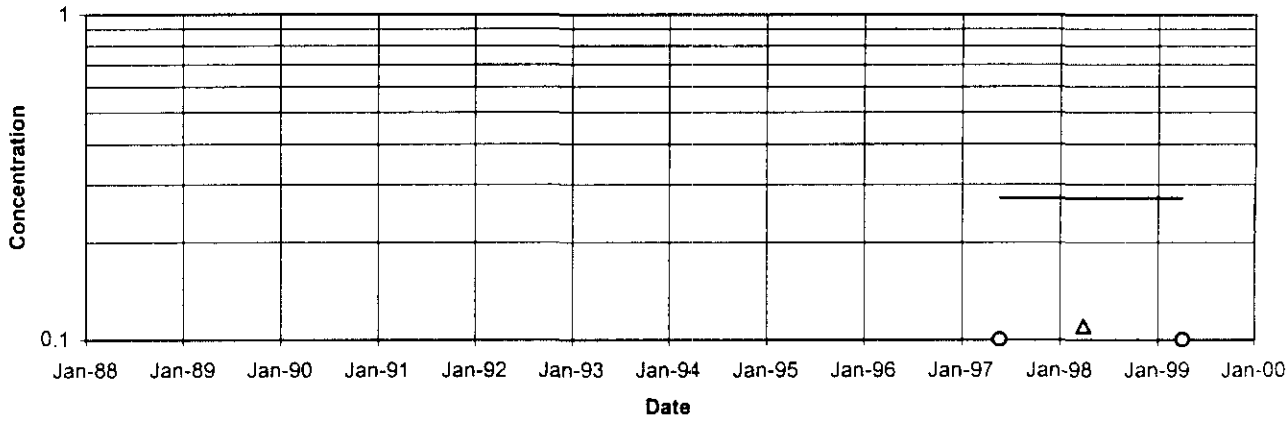
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

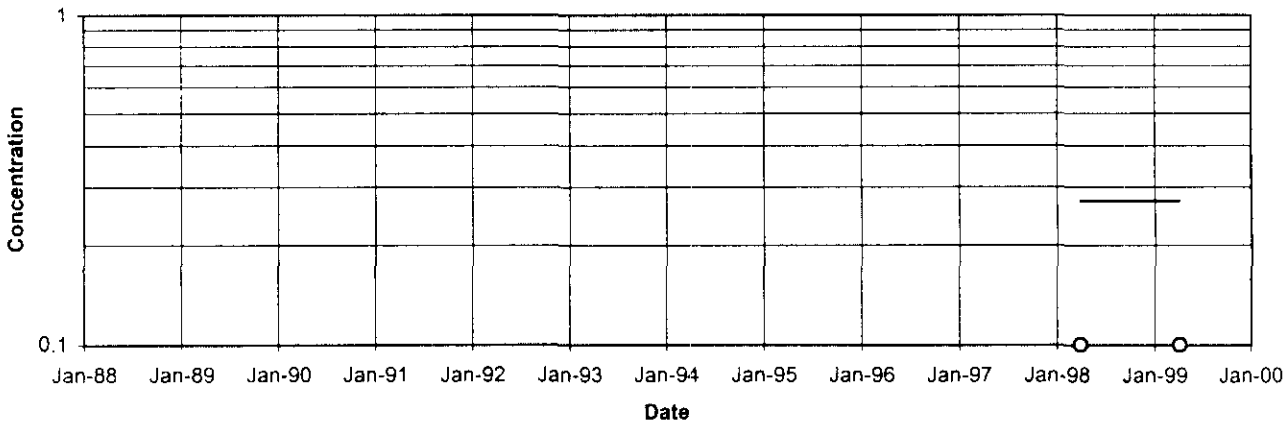
G33S



G34D



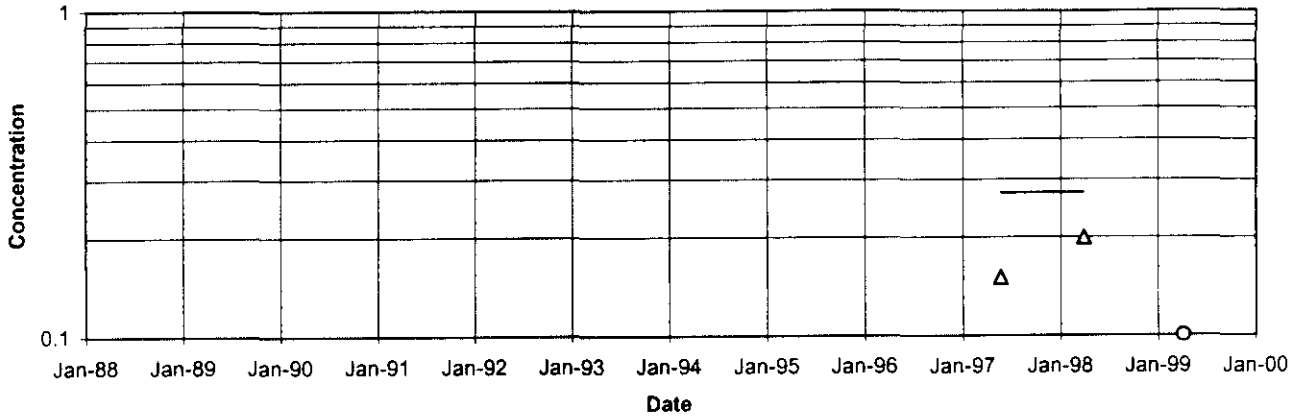
G34S



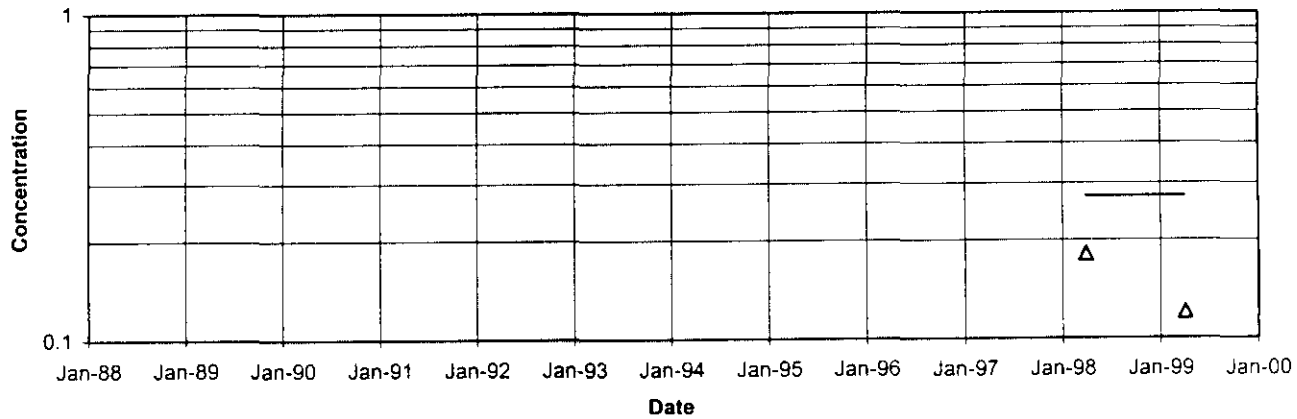
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

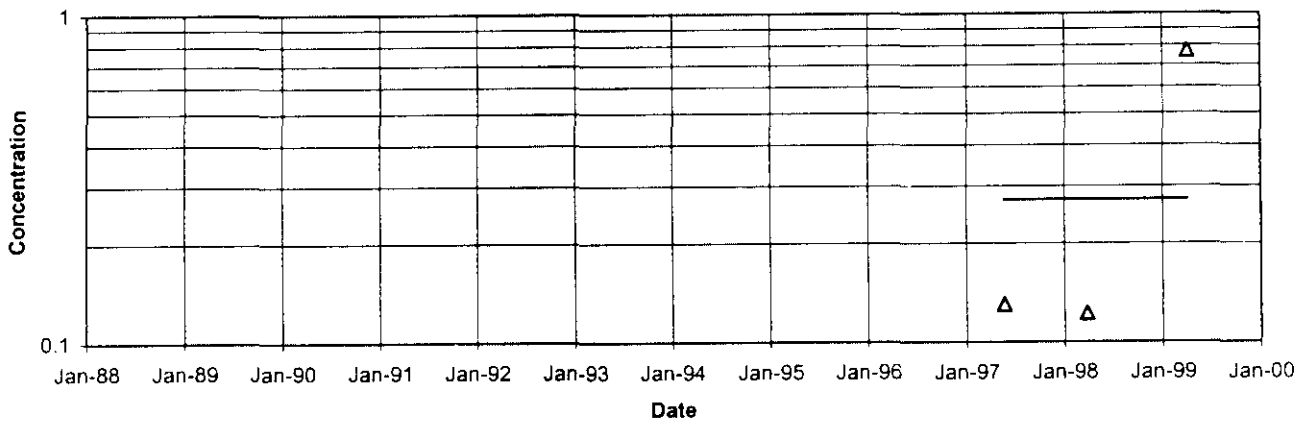
G35D



G35S



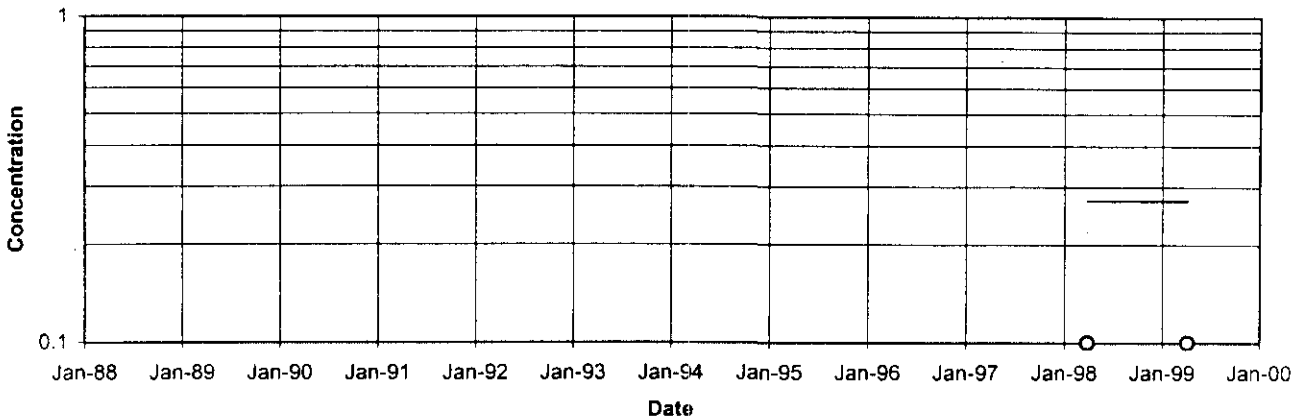
G36



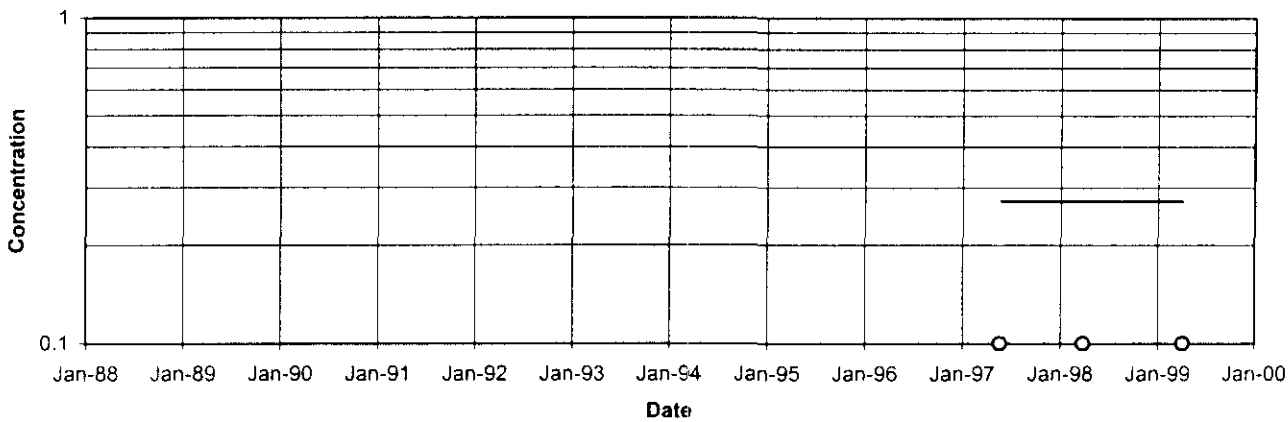
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

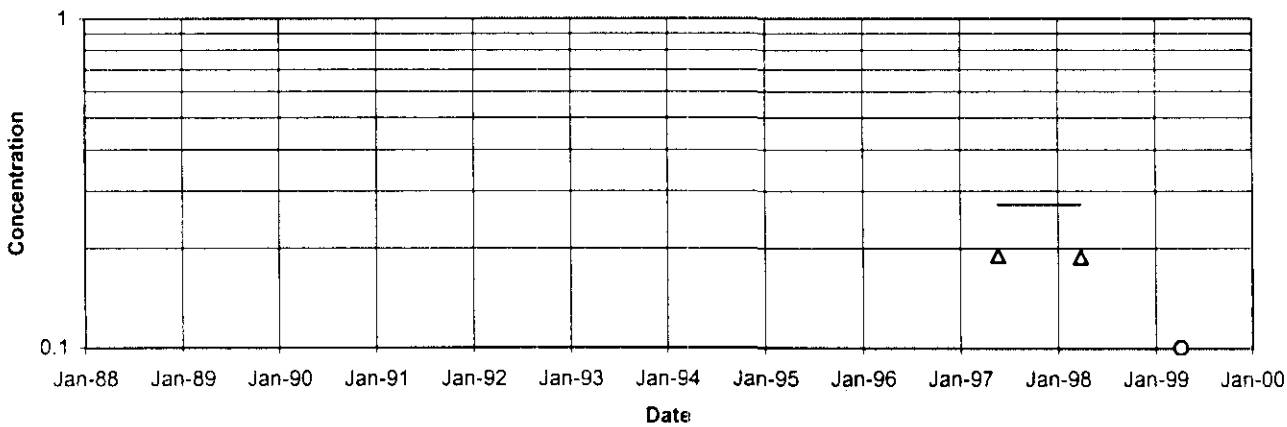
G37D



G37S



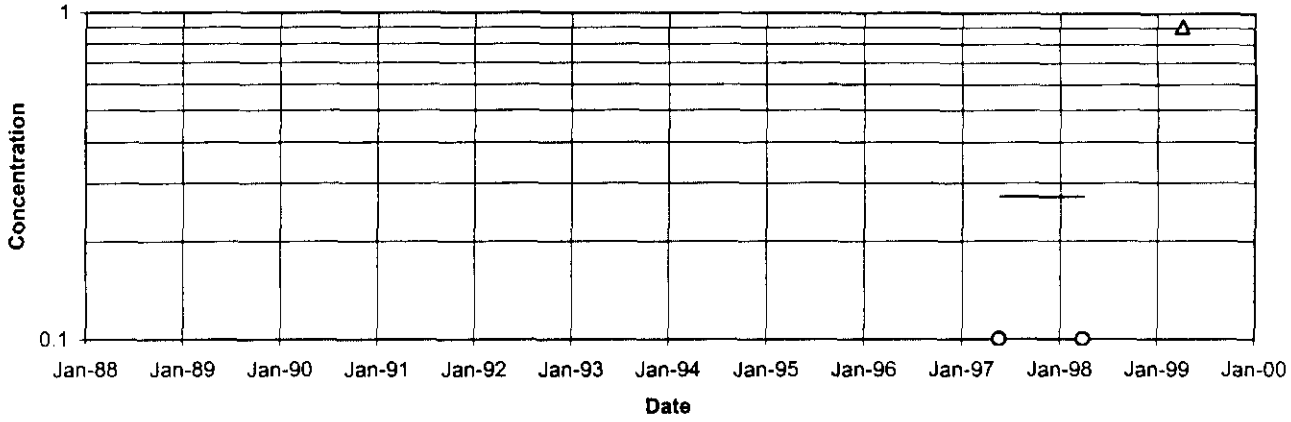
G38



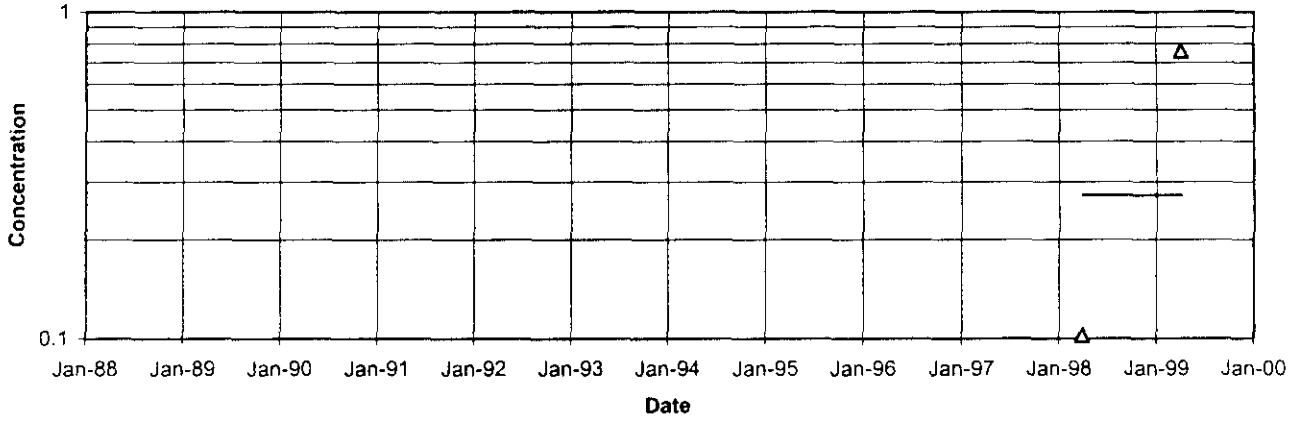
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

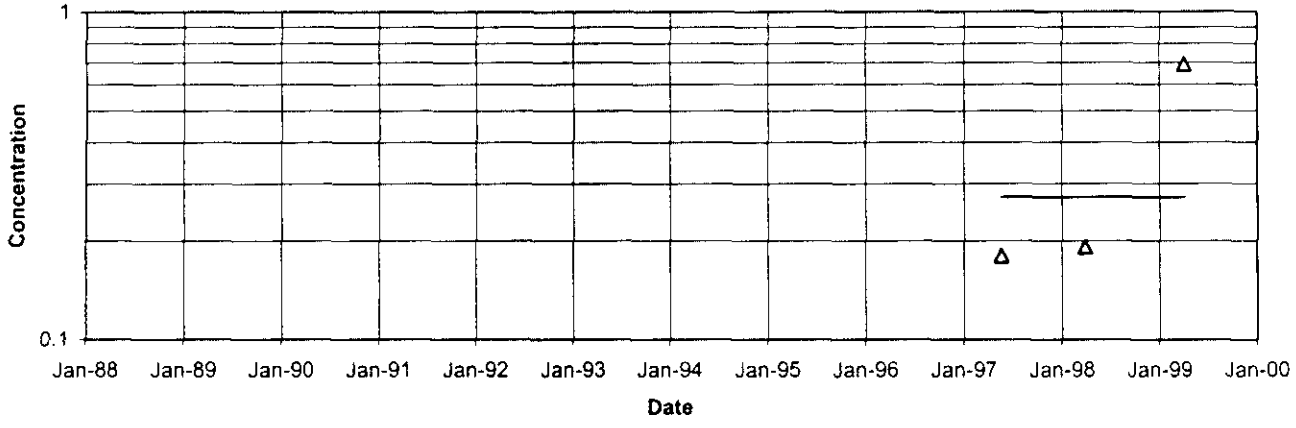
G39



G40



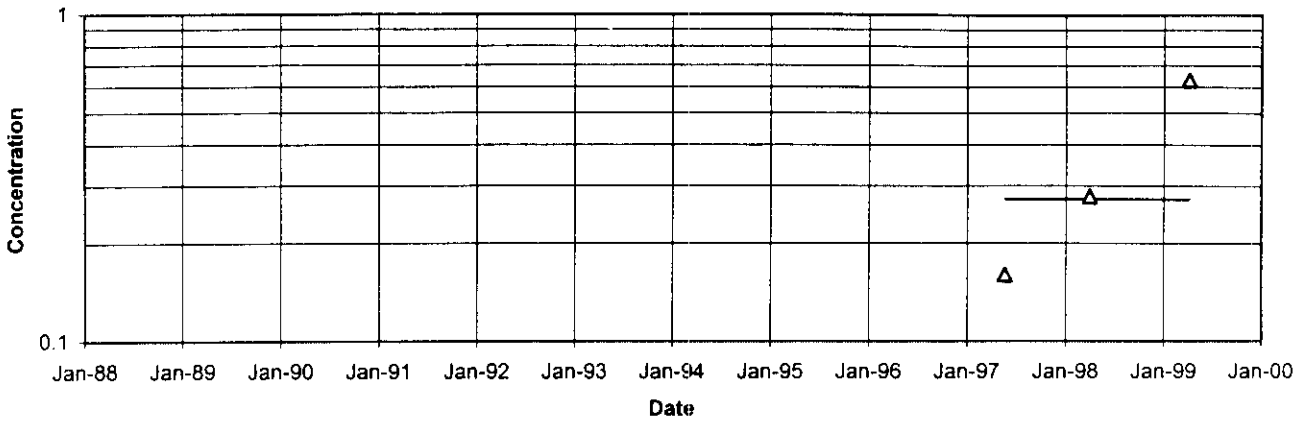
MW106



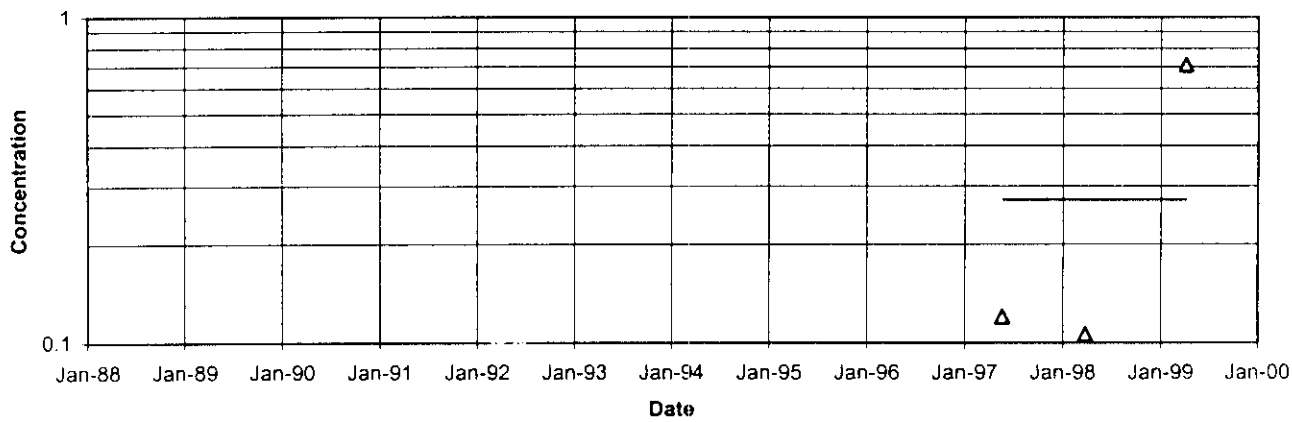
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

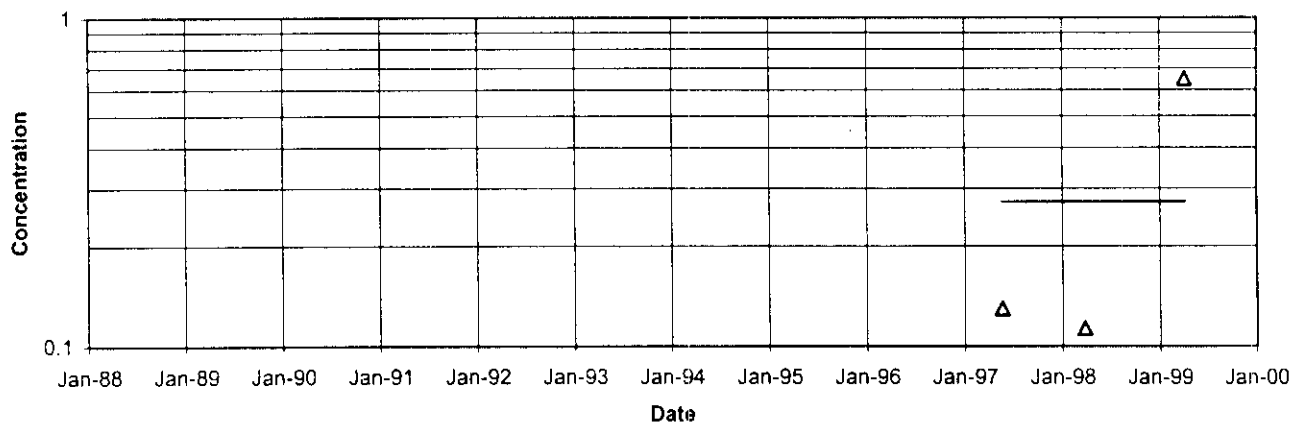
P1



P3R



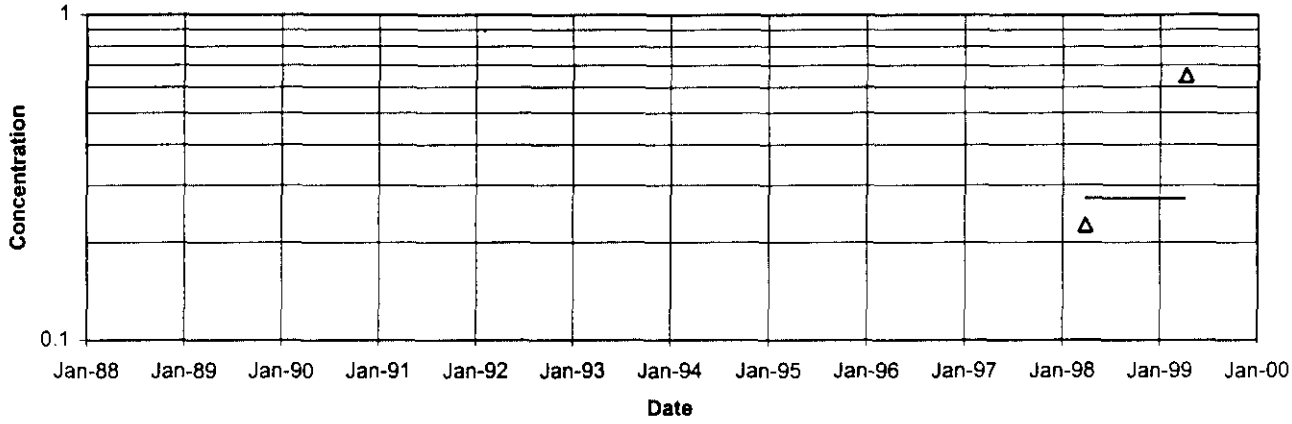
P4R



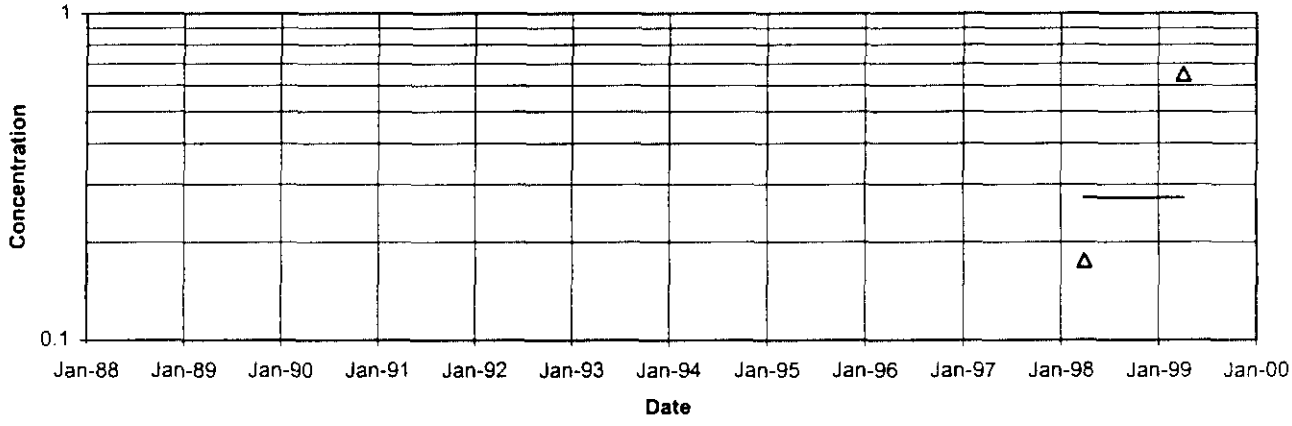
Fluoride (mg/L)

AGQS Δ Concentration O NonDetect

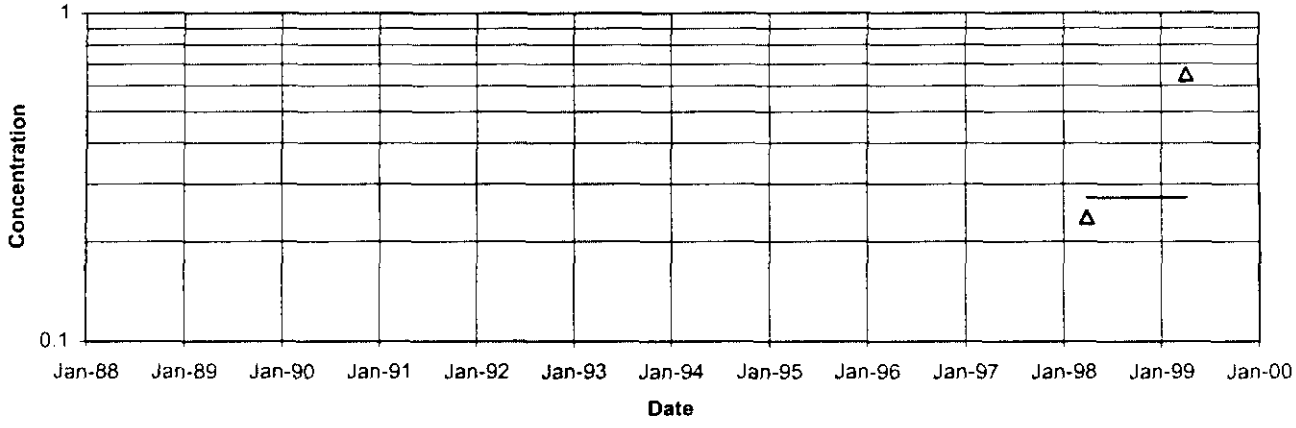
SG1



SG3



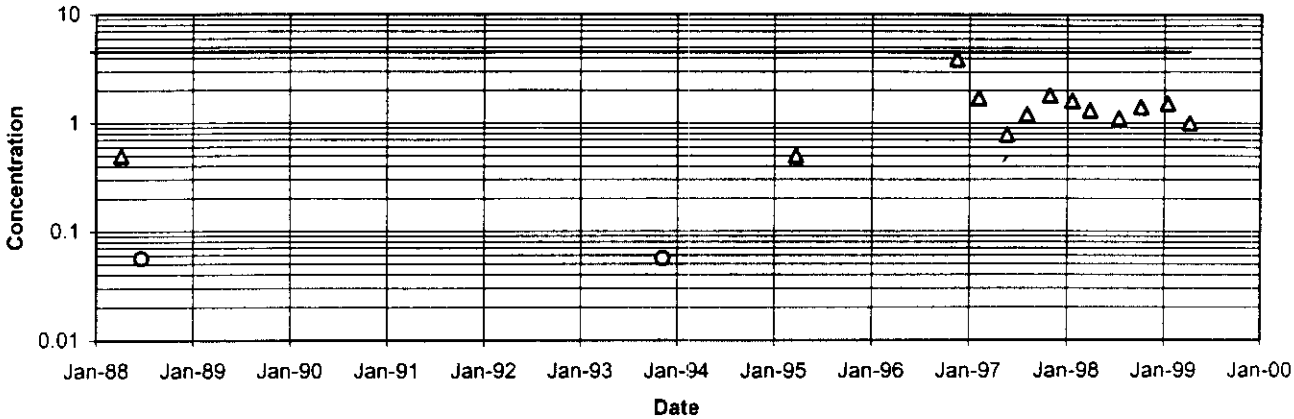
SG4



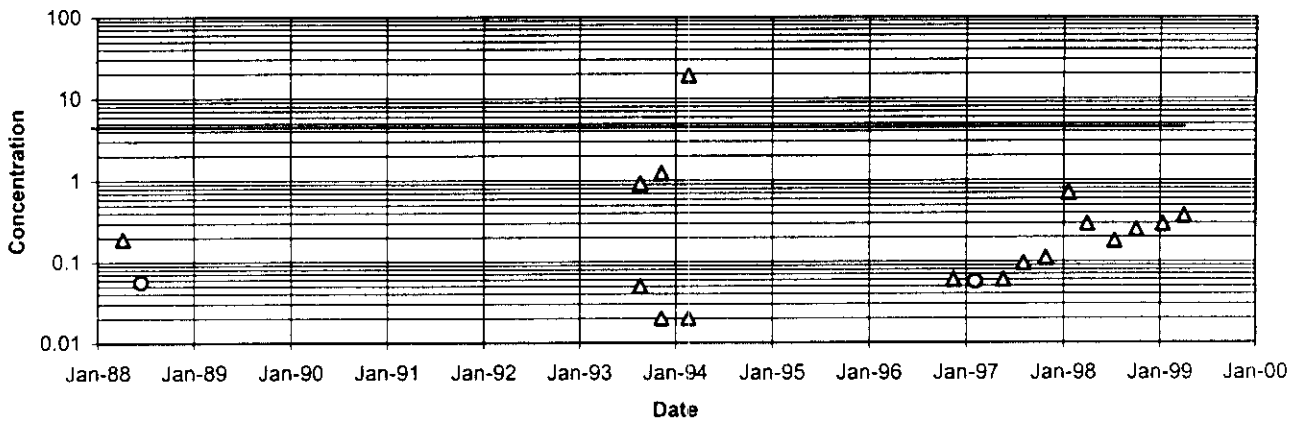
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

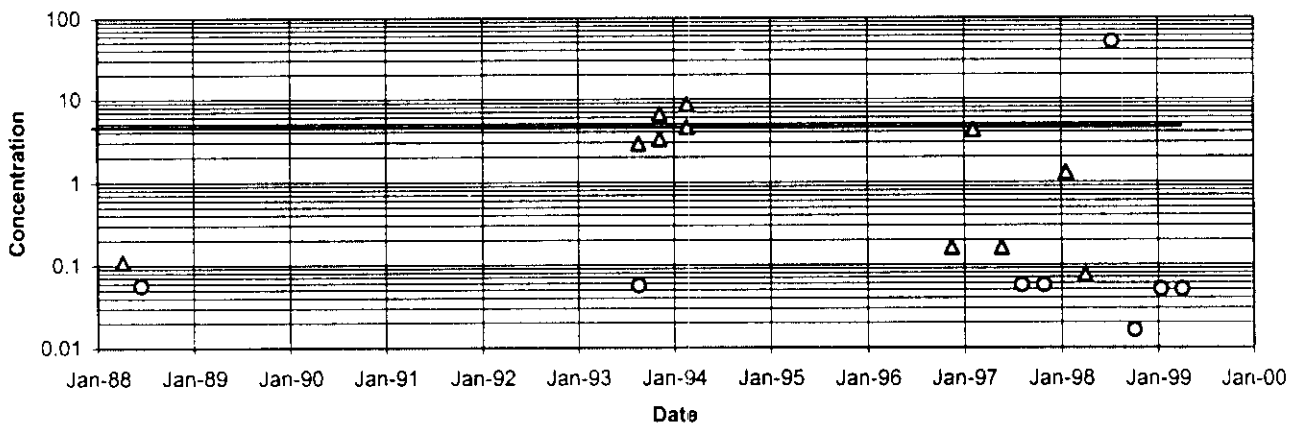
B15R



G109



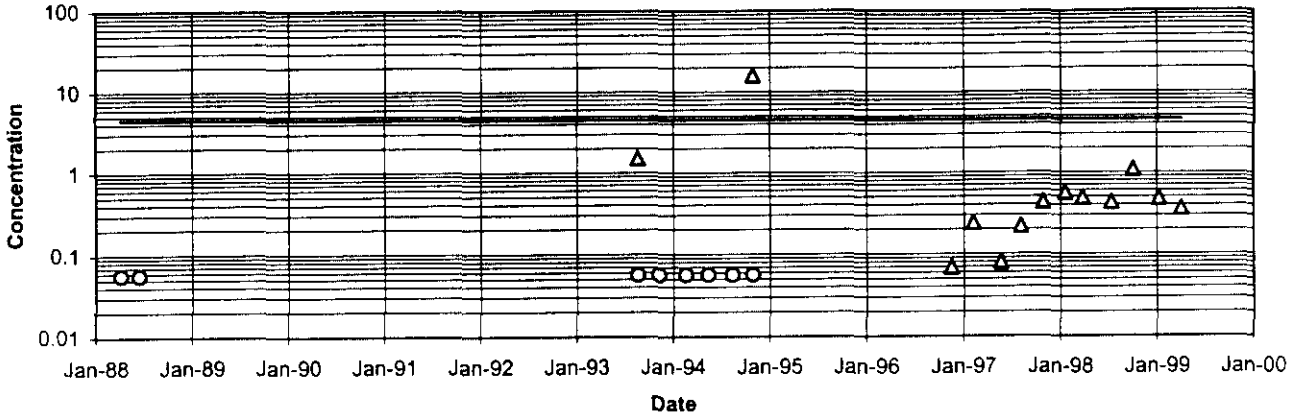
G109A



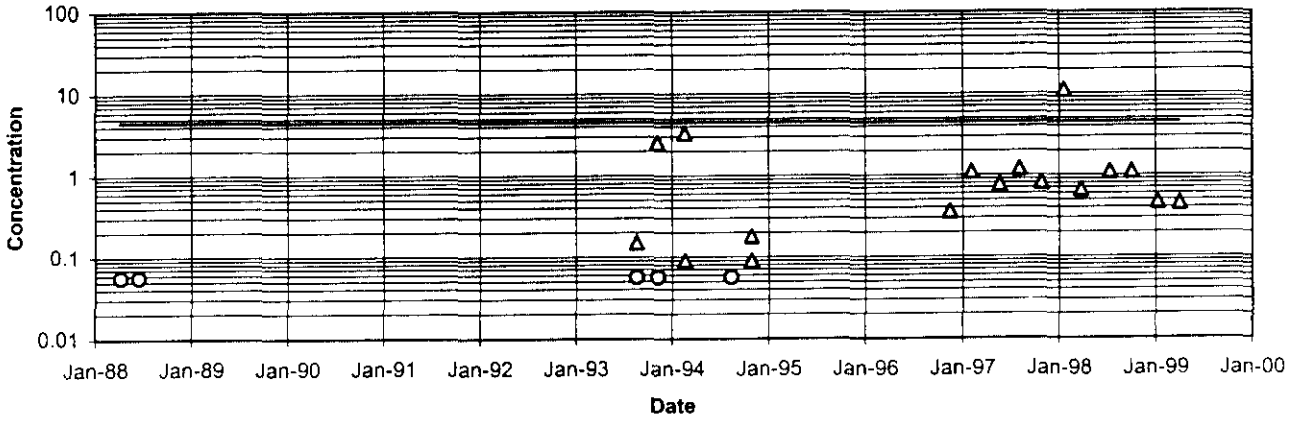
Iron (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

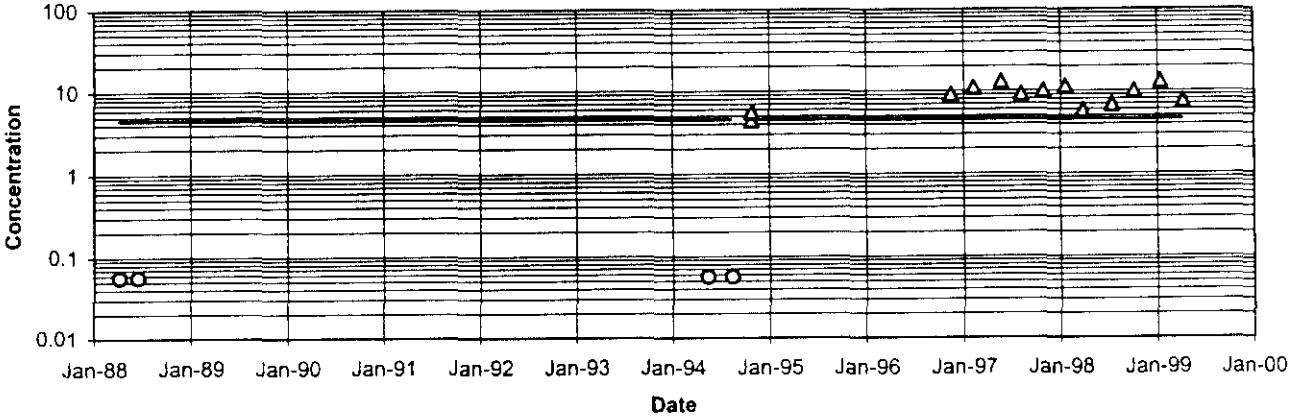
G113



G113A



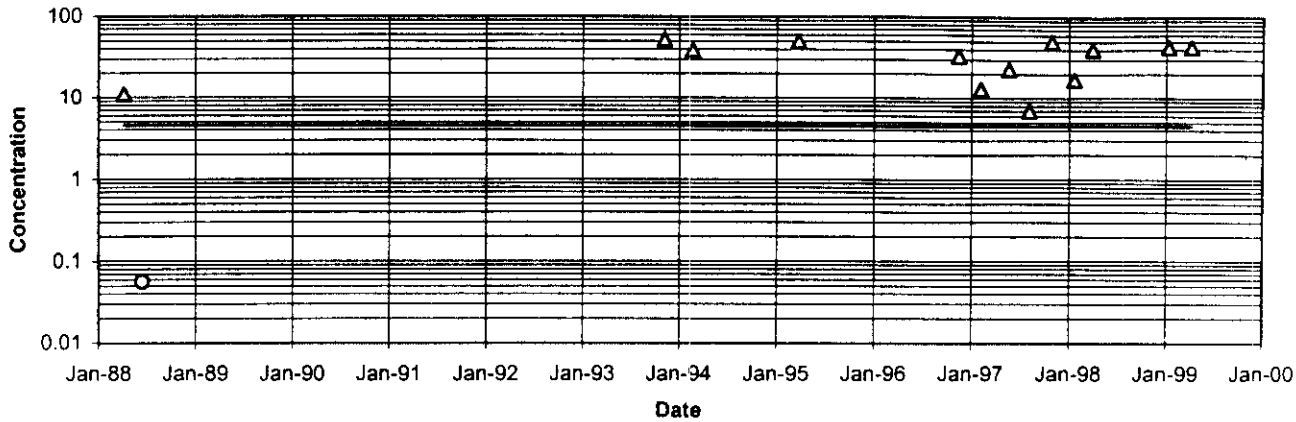
G114



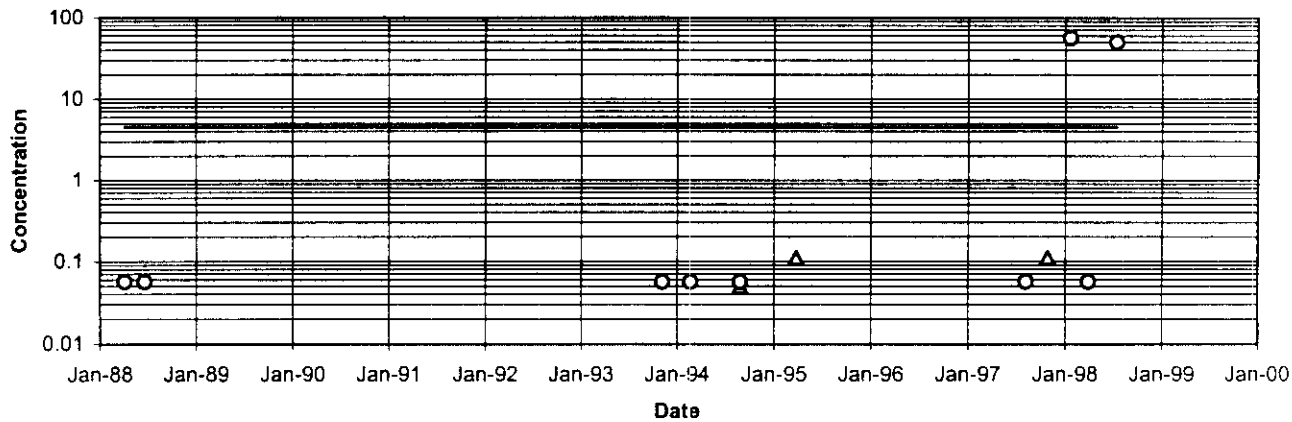
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

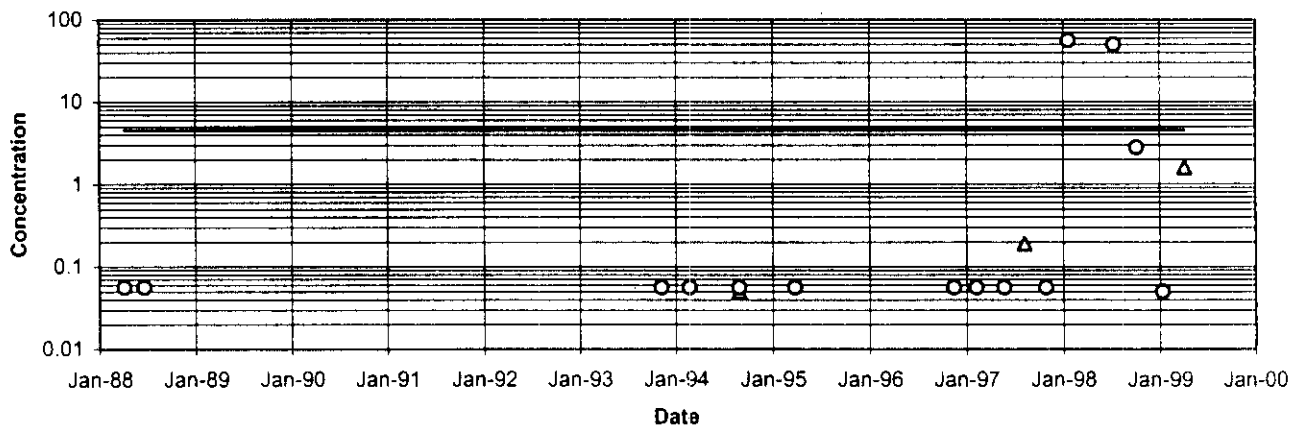
G115



G116



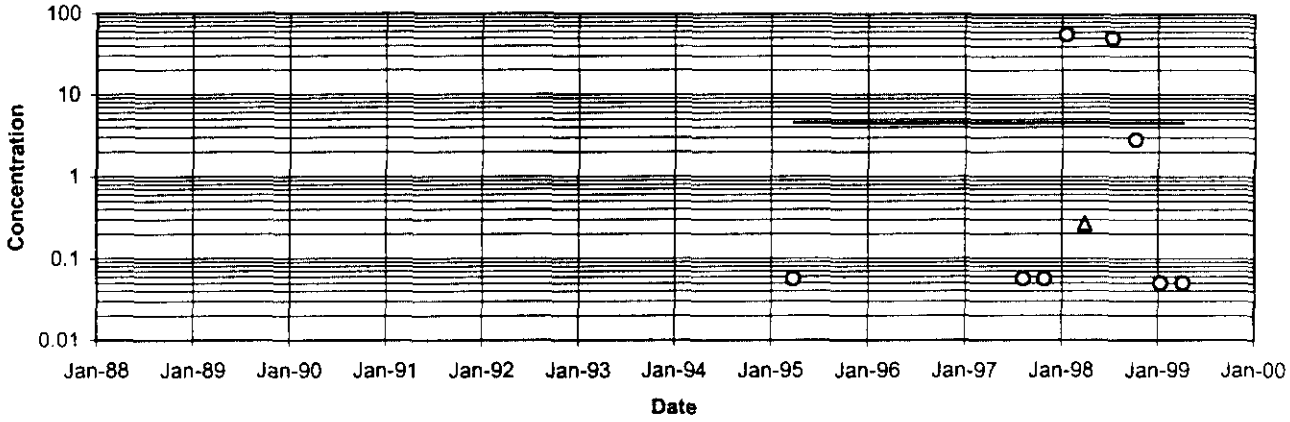
G116A



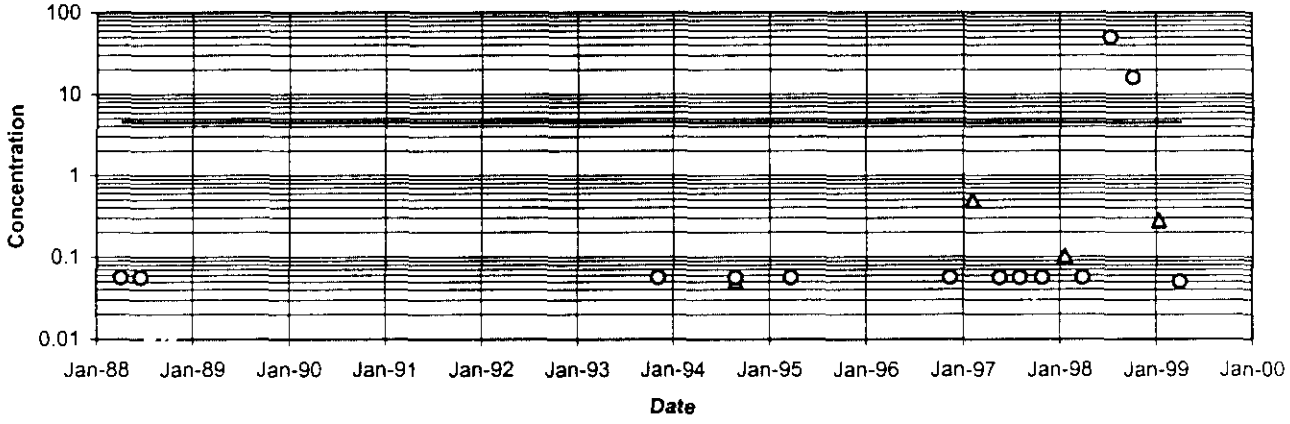
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

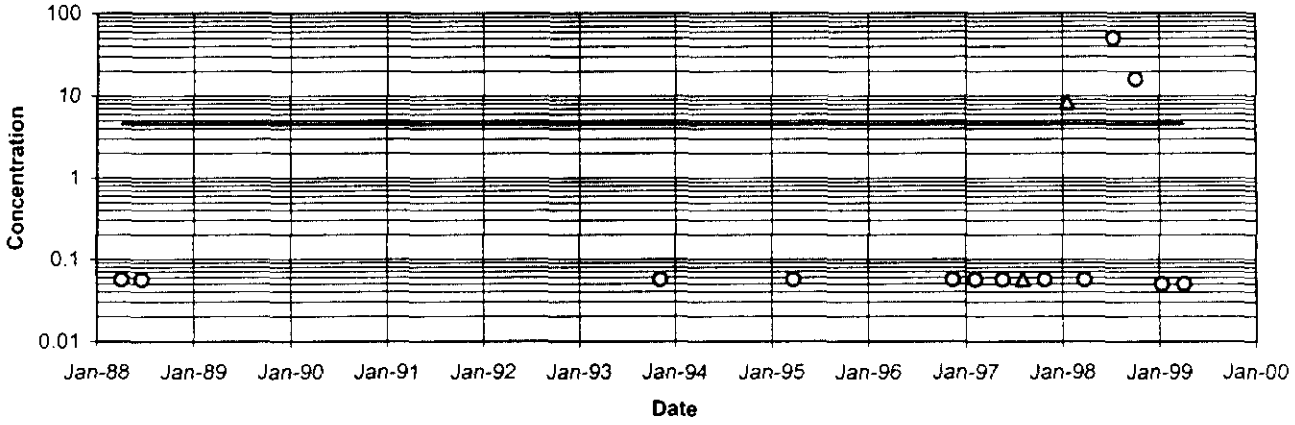
G116D



G117



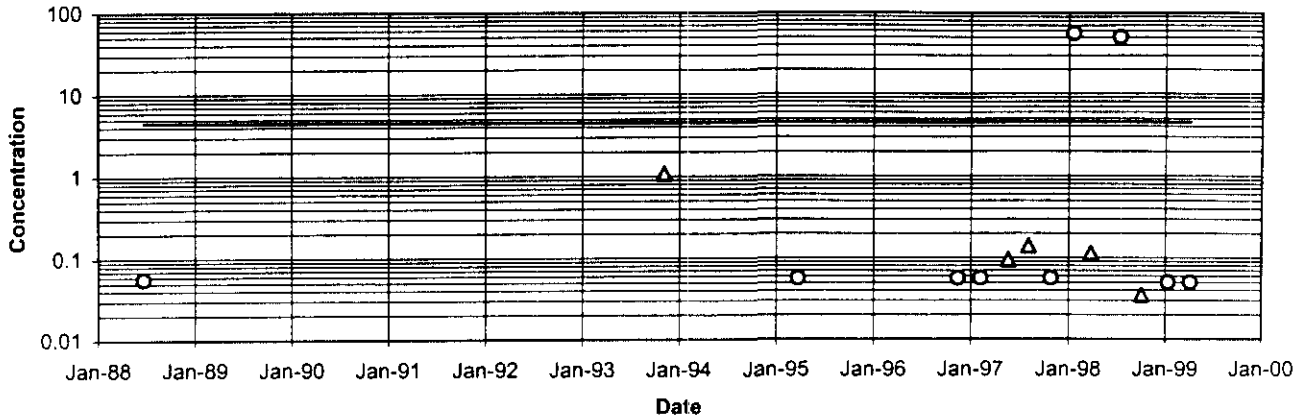
G118A



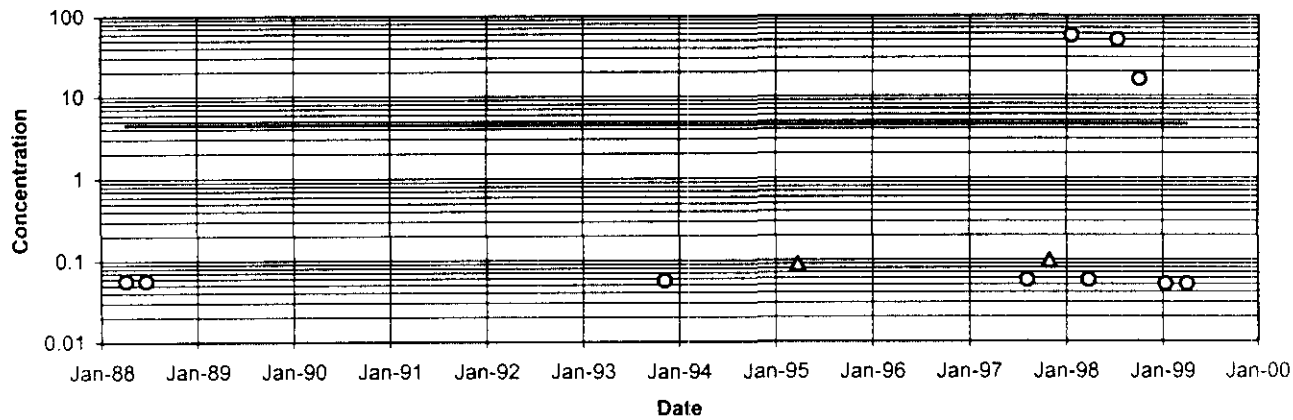
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

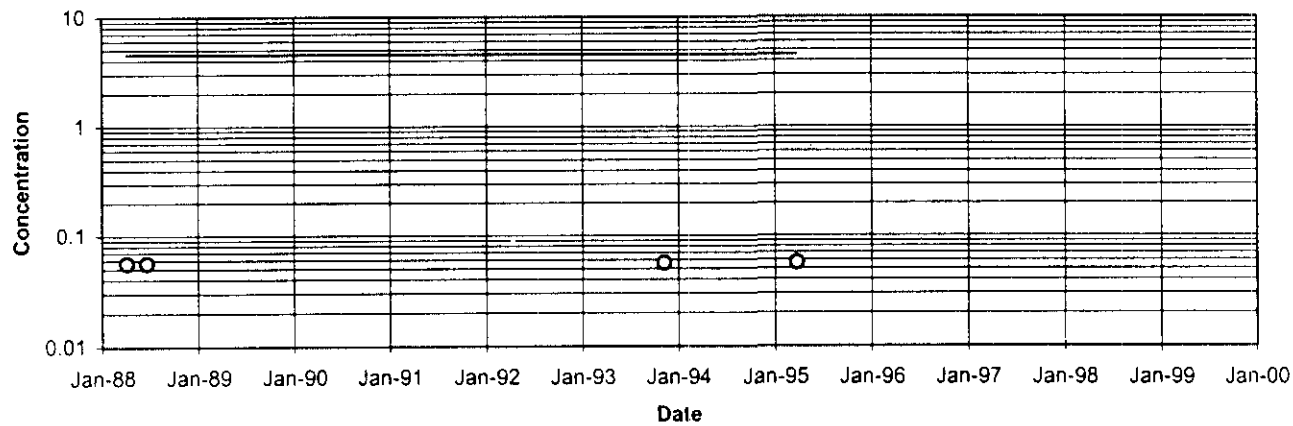
G118R



G119



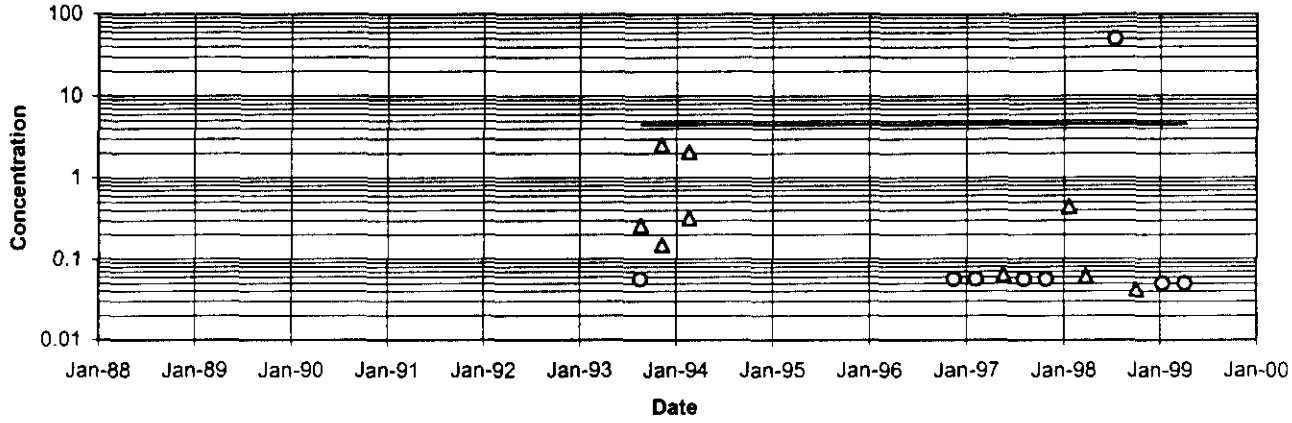
G119A



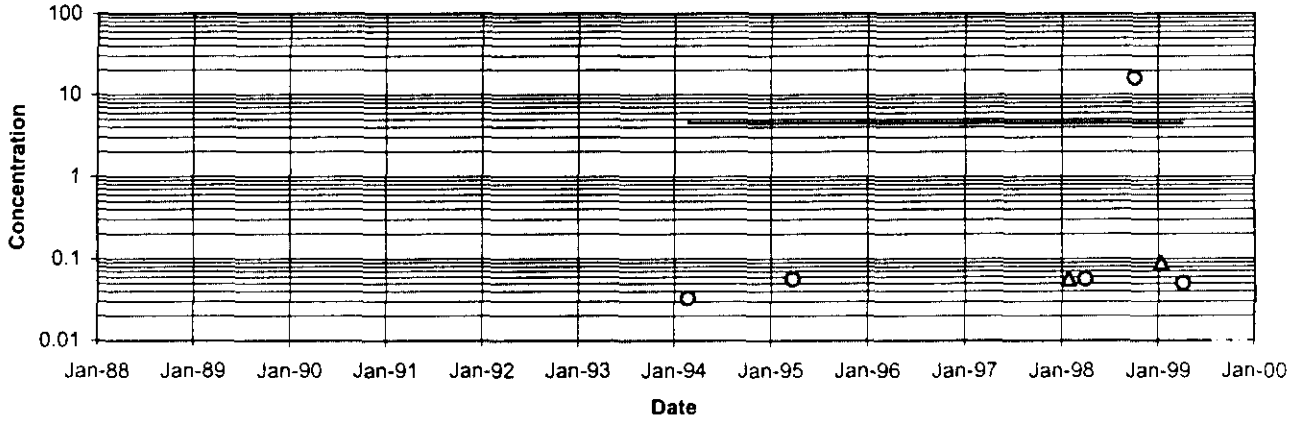
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

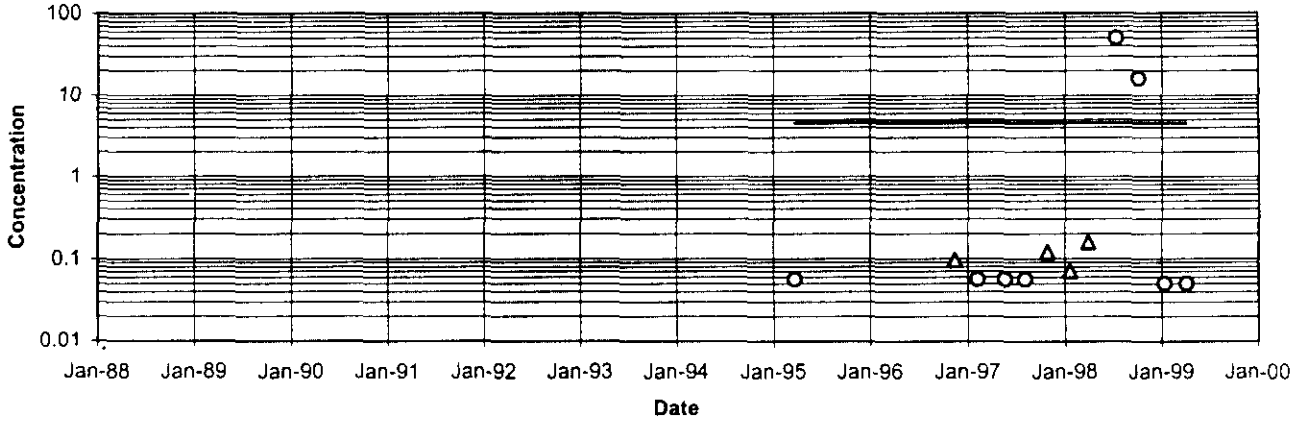
G120B



G130



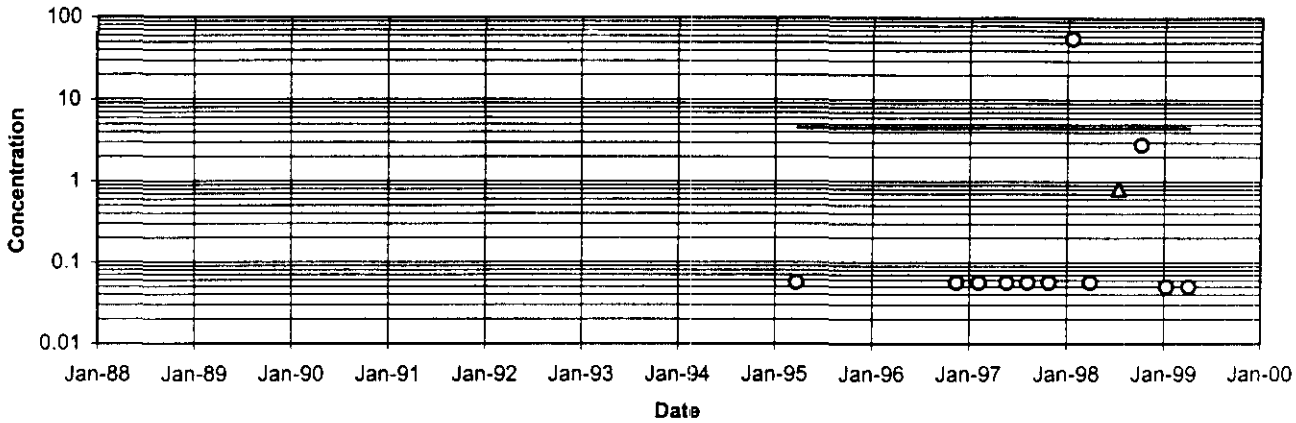
G132



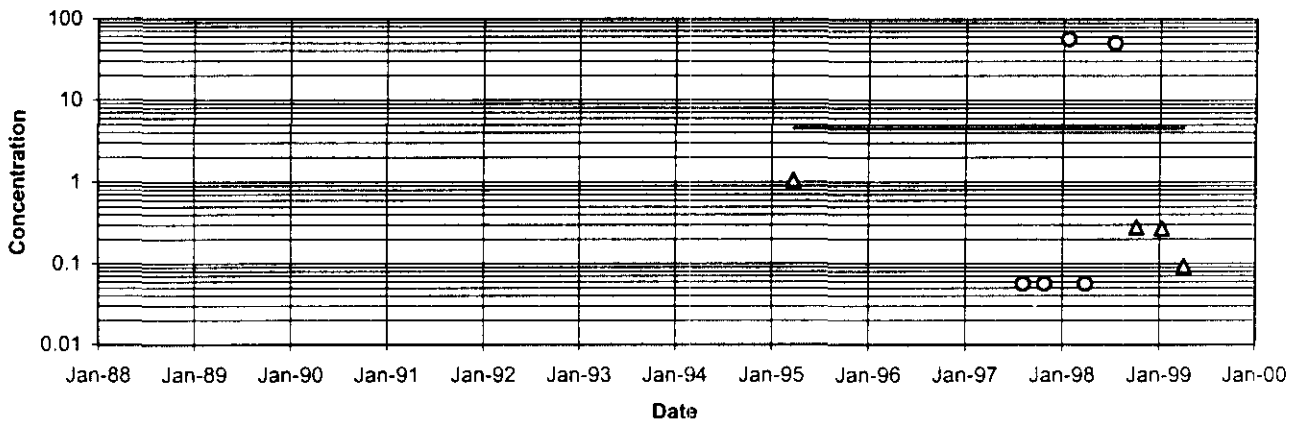
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

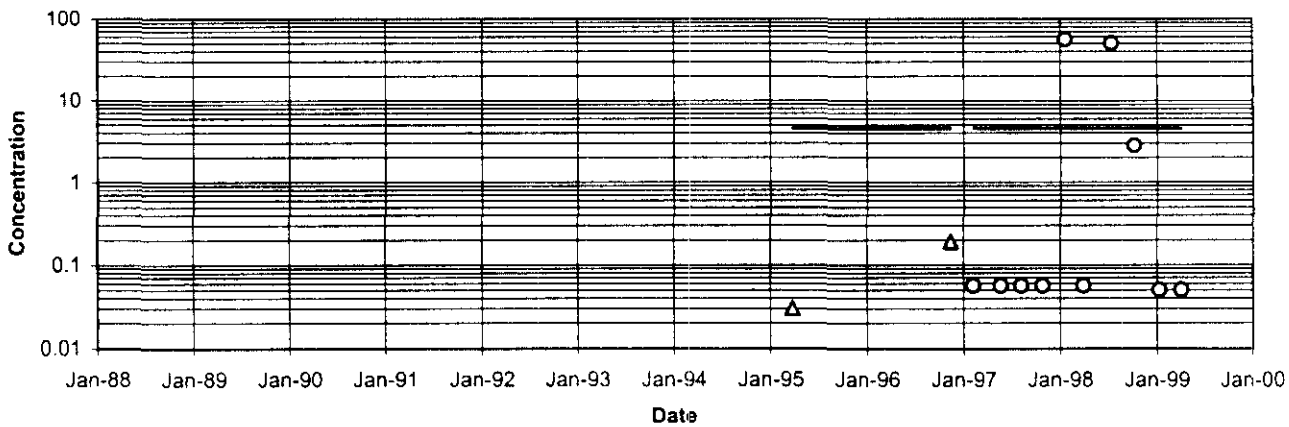
G33D



G33S



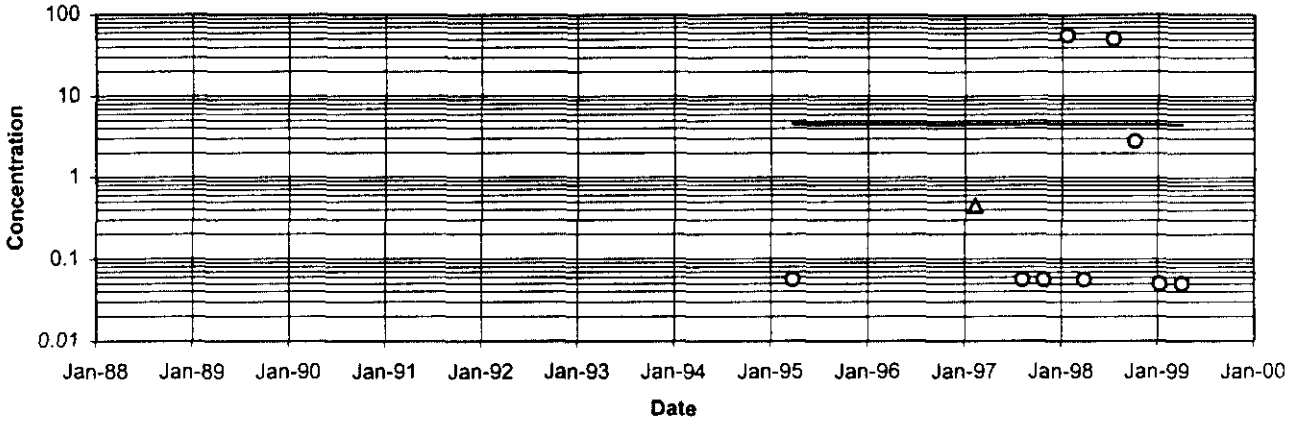
G34D



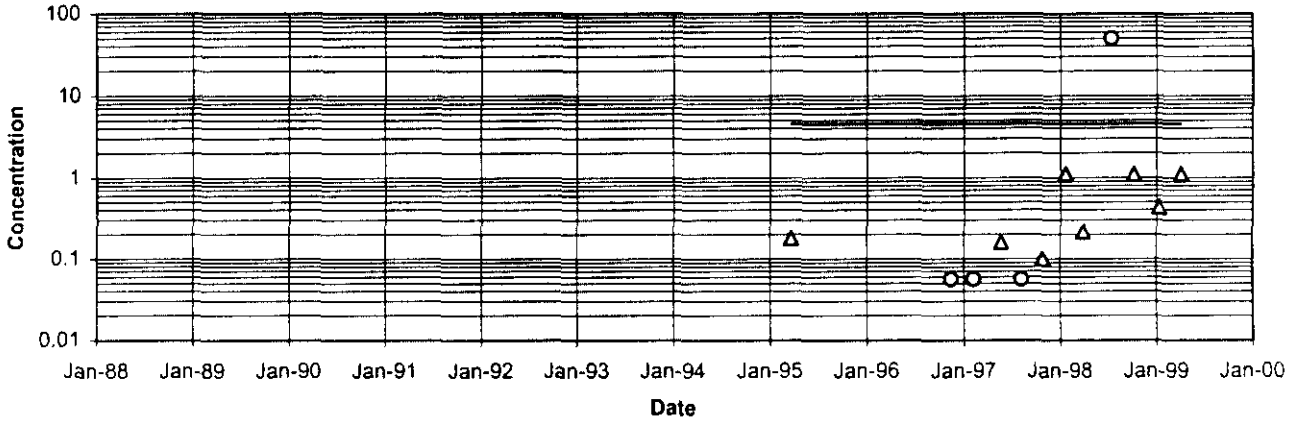
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

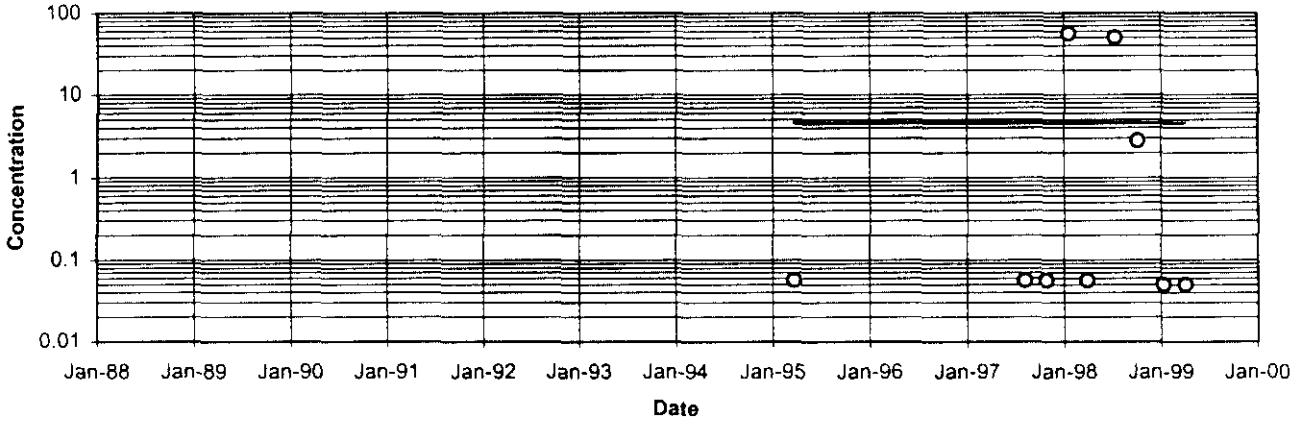
G34S



G35D



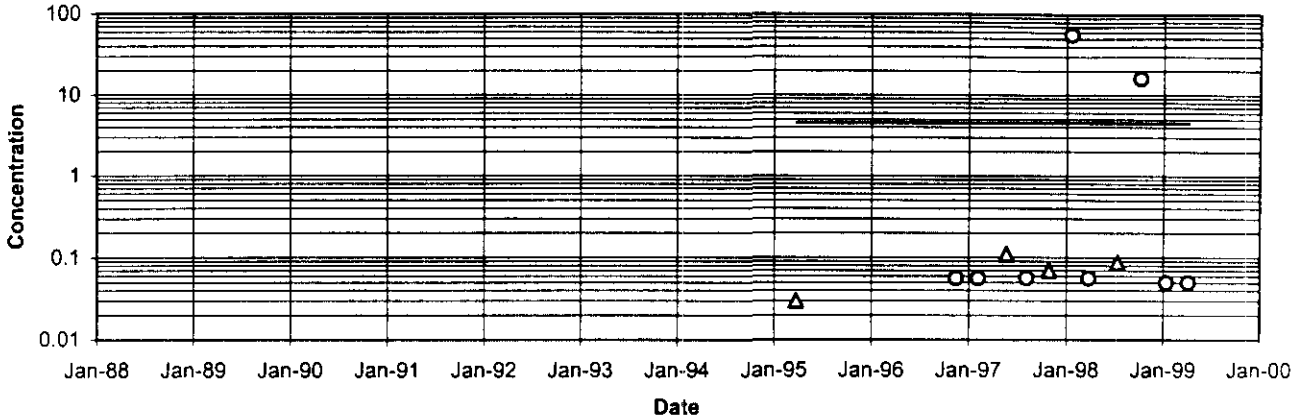
G35S



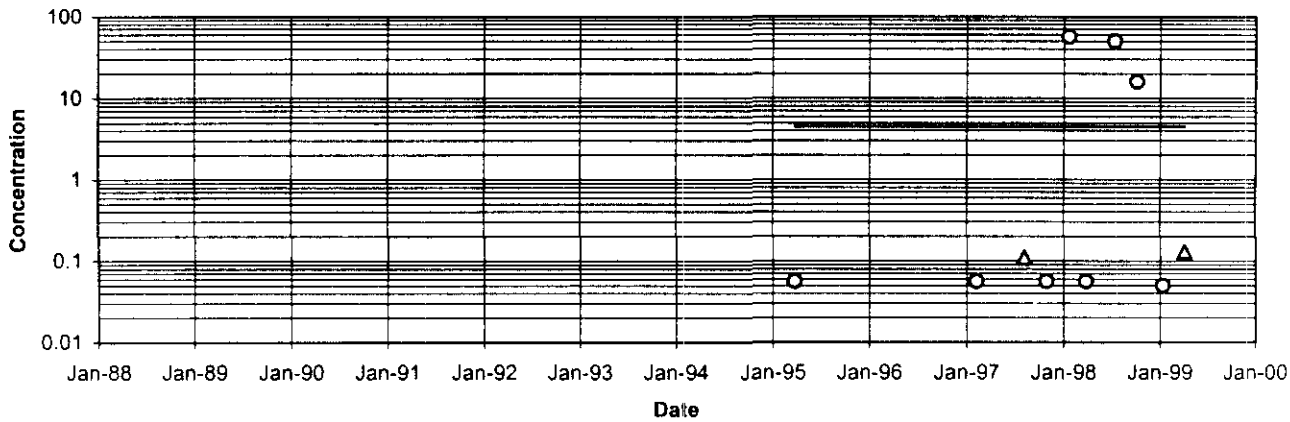
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

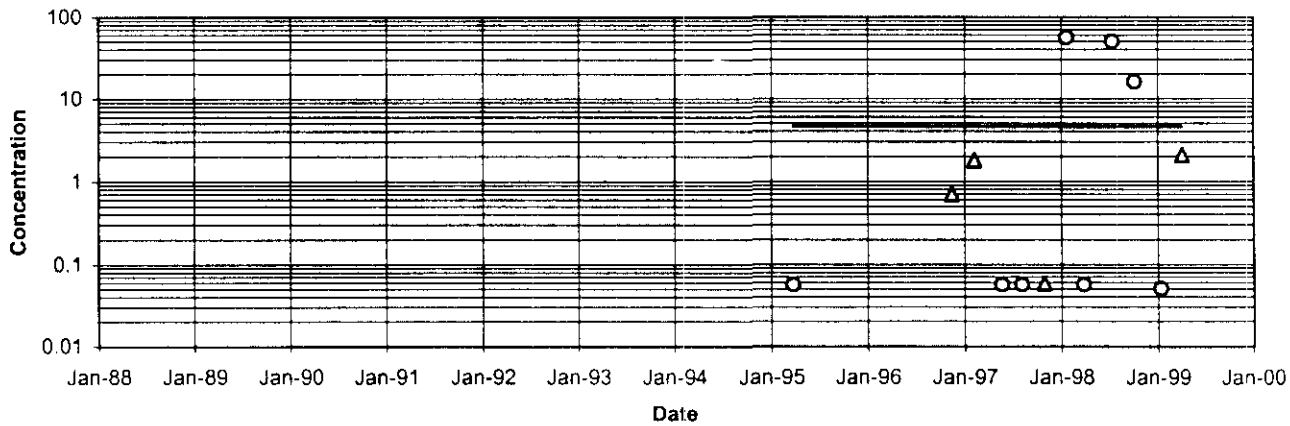
G36



G37D



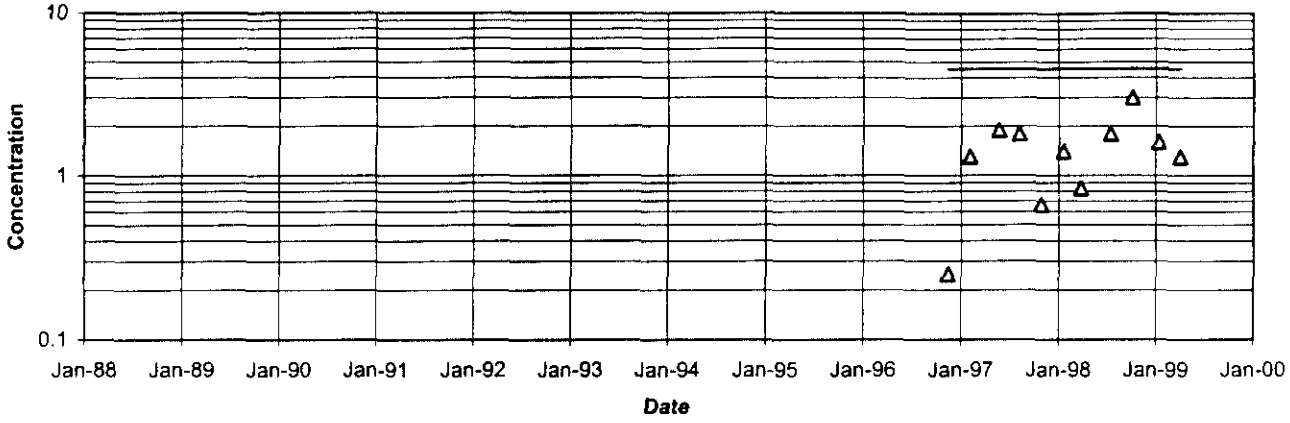
G37S



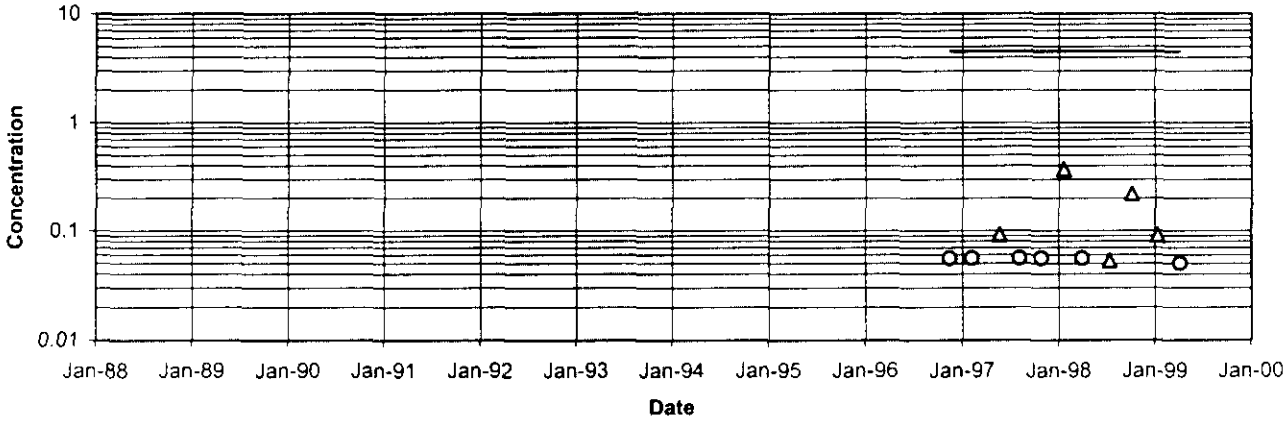
Iron (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

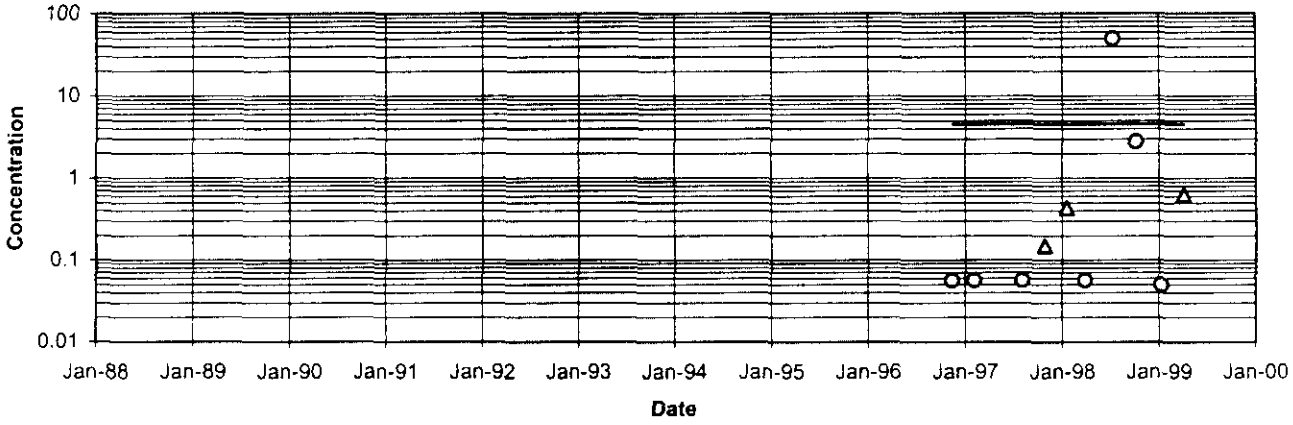
G38



G39



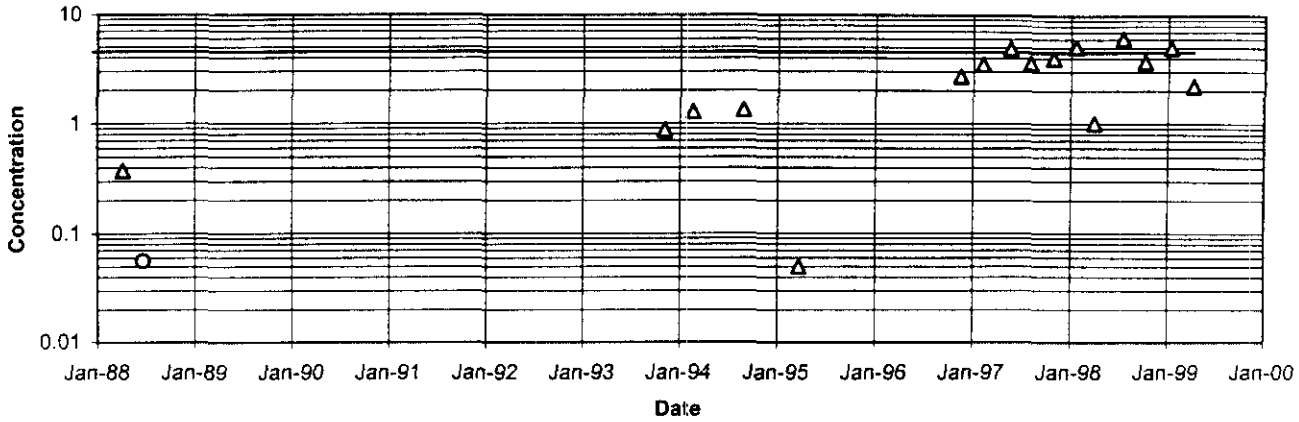
G40



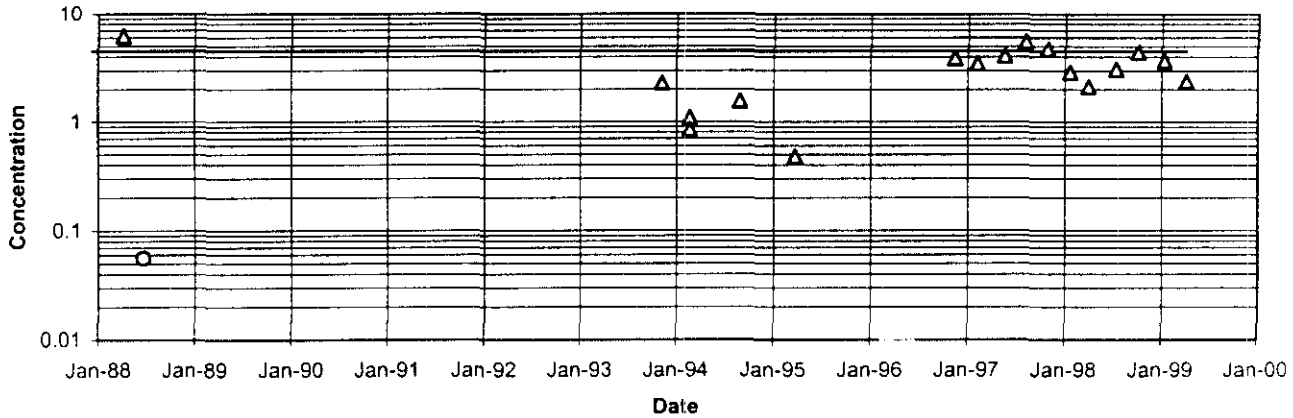
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

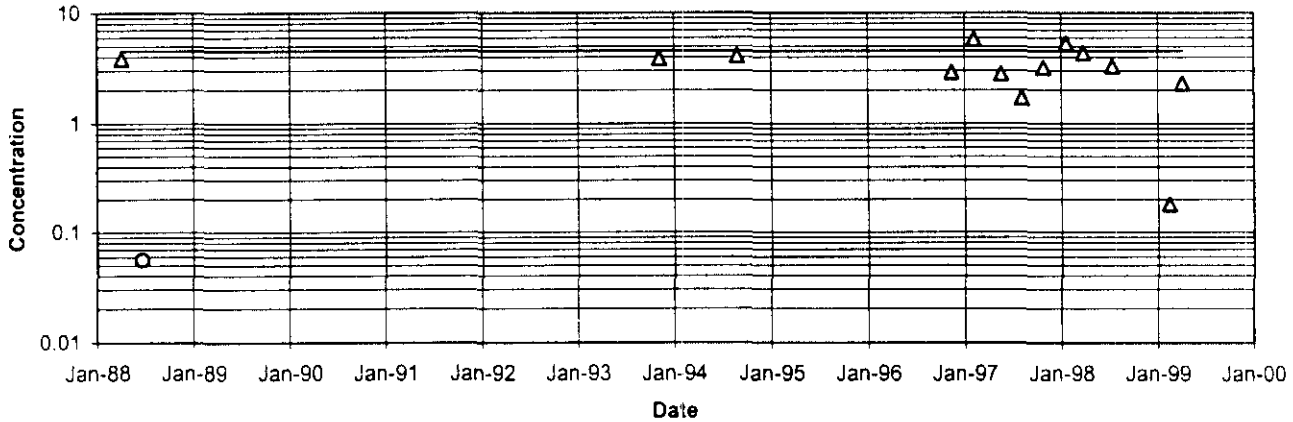
MW106



P1



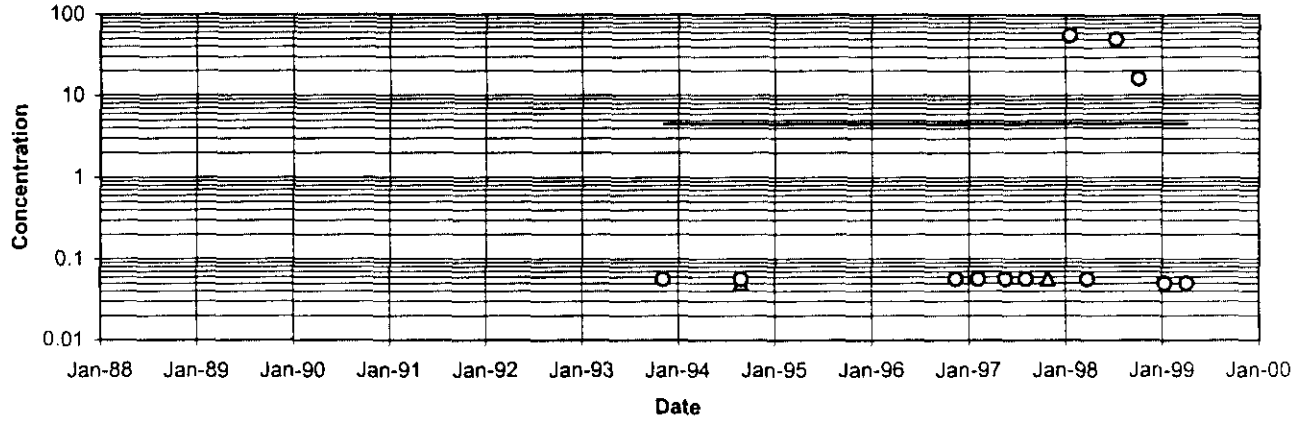
P3R



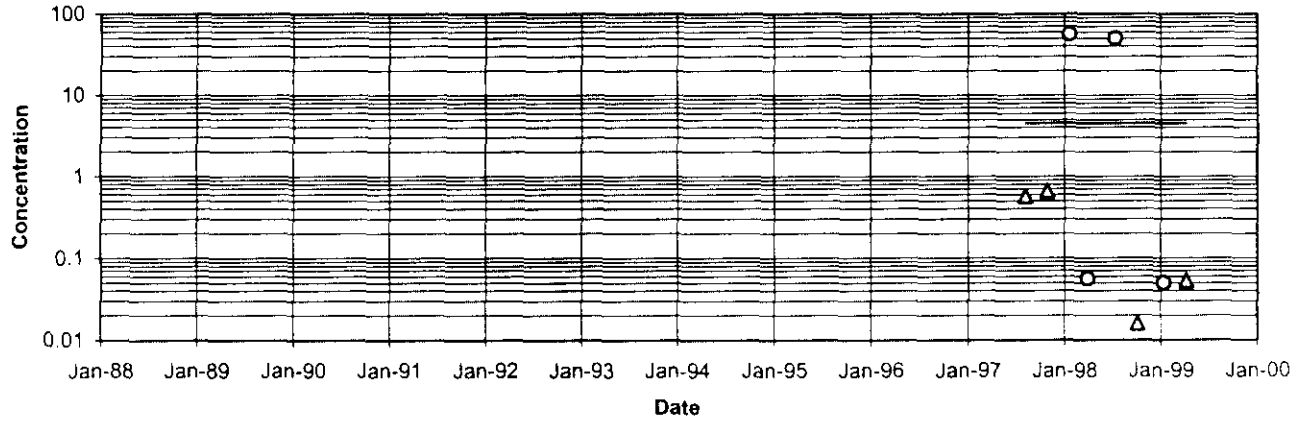
Iron (dis) (mg/L)

AGQS Δ Concentration O NonDetect

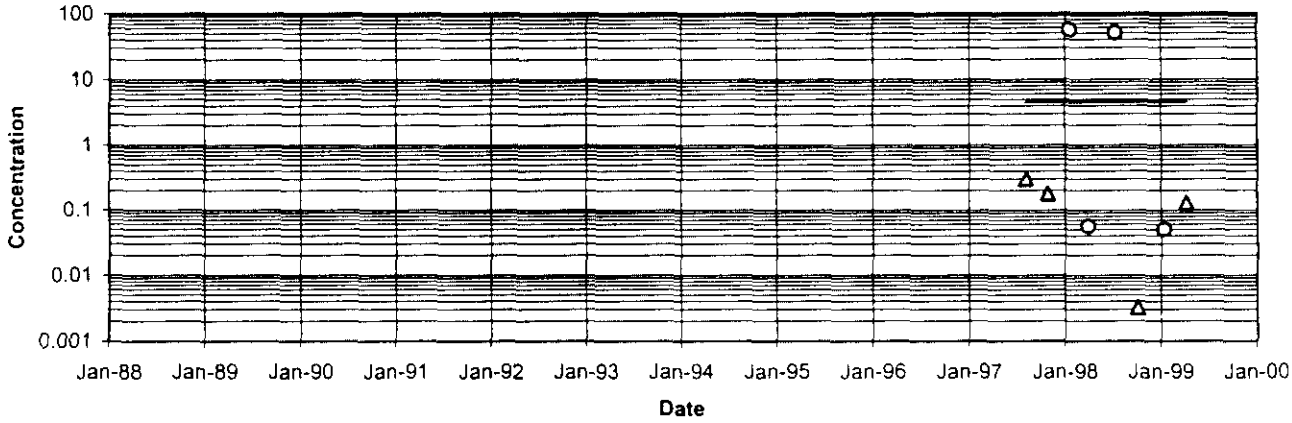
P4R

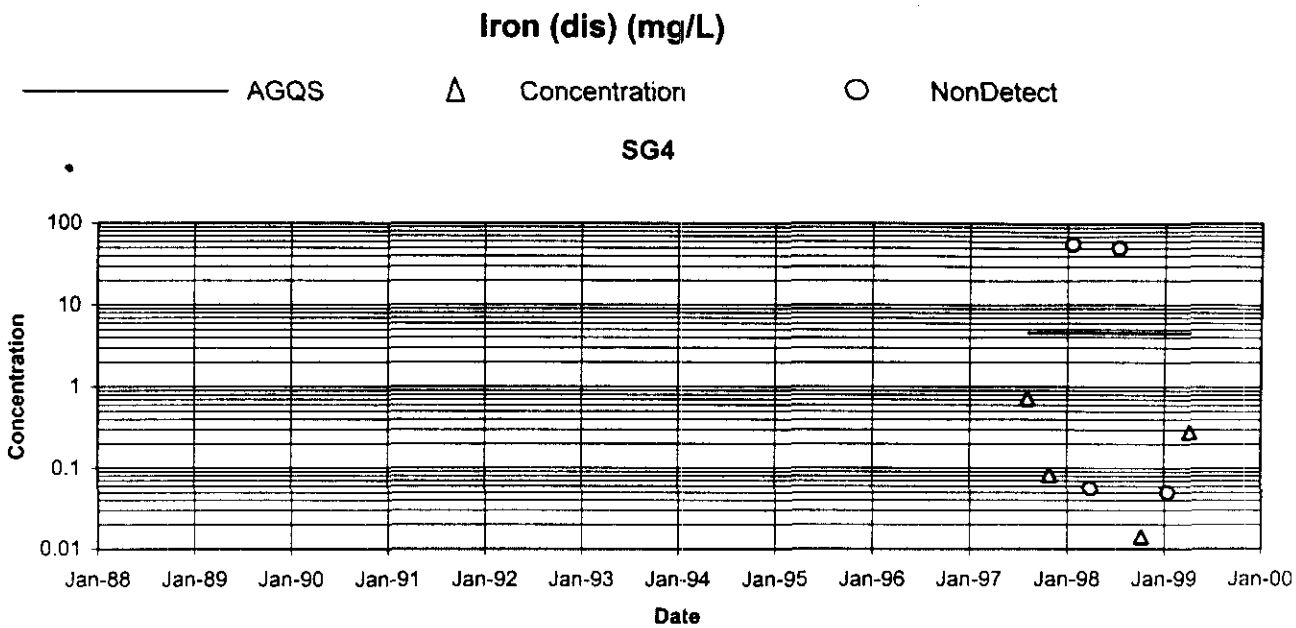


SG1



SG3

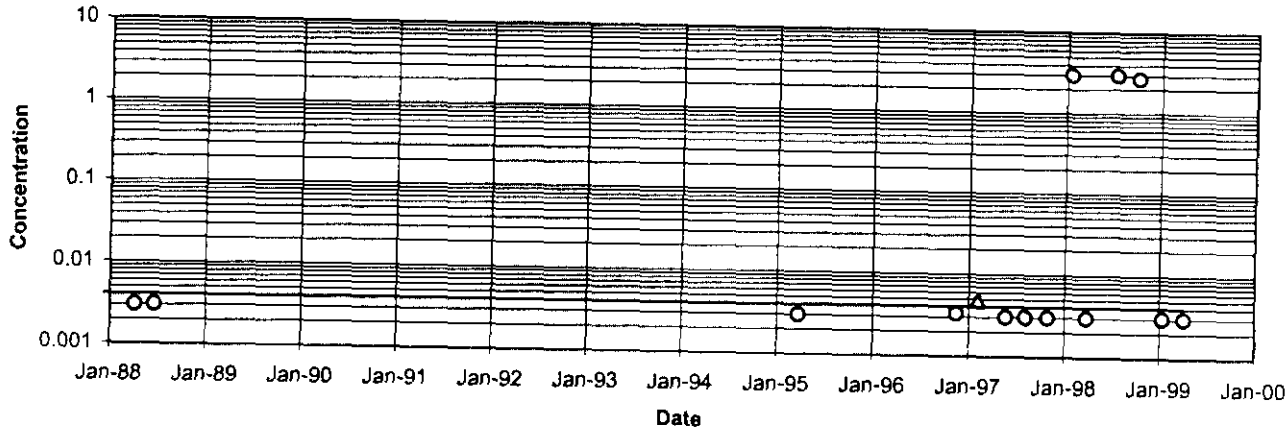



Iron (dis) (mg/L)
AGQS
Concentration
NonDetect
SG4
100
10
1
0.1
0.01
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

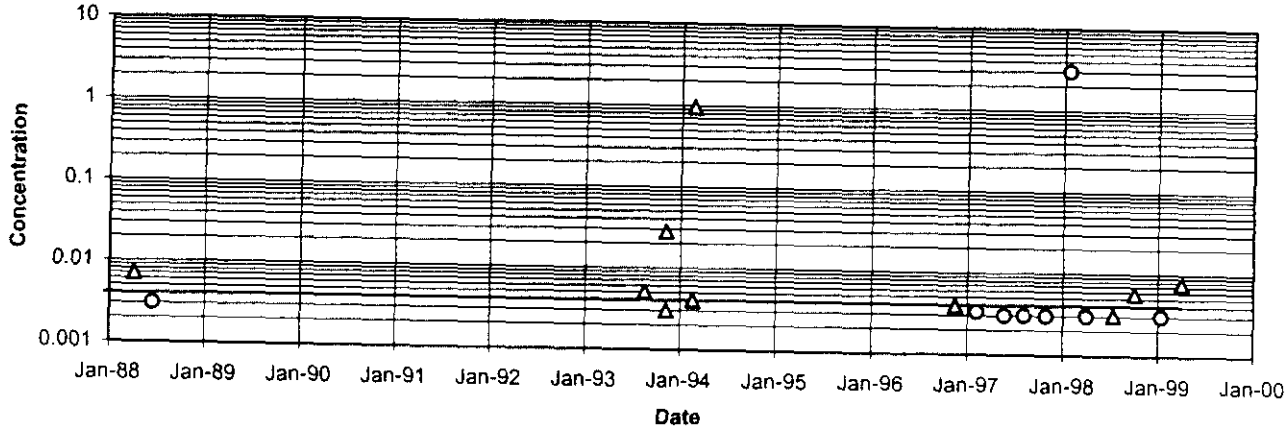
Lead (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

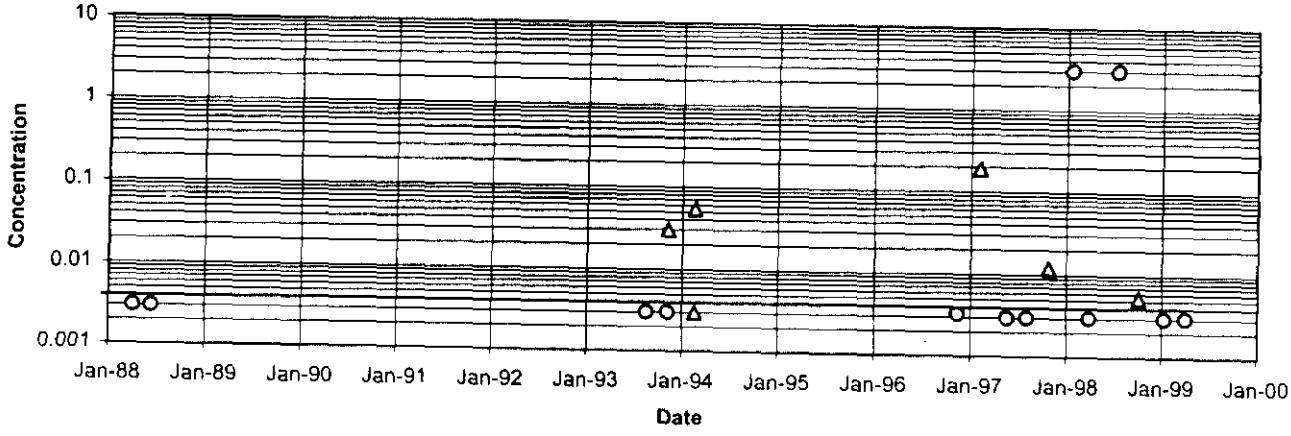
B15R



G109



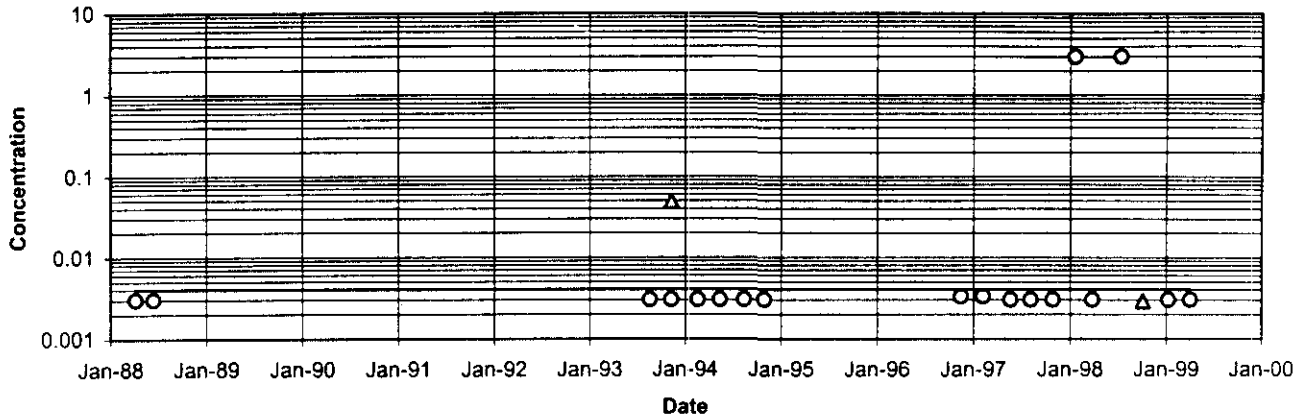
G109A



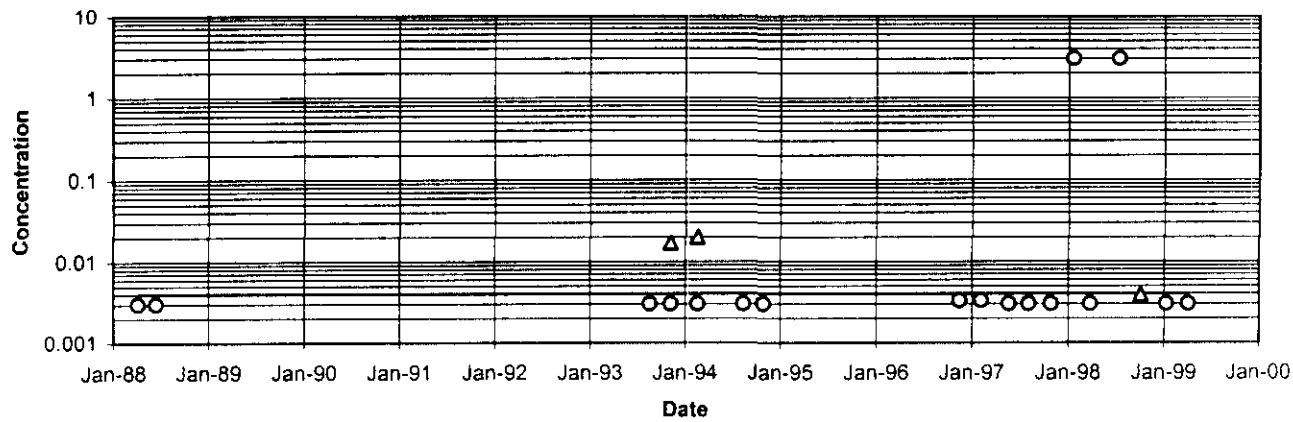
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

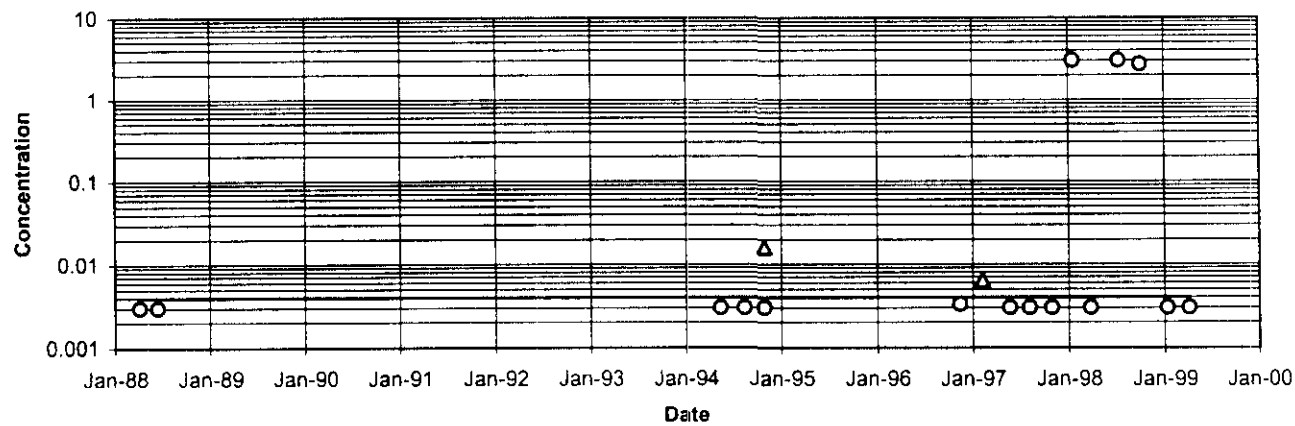
G113



G113A



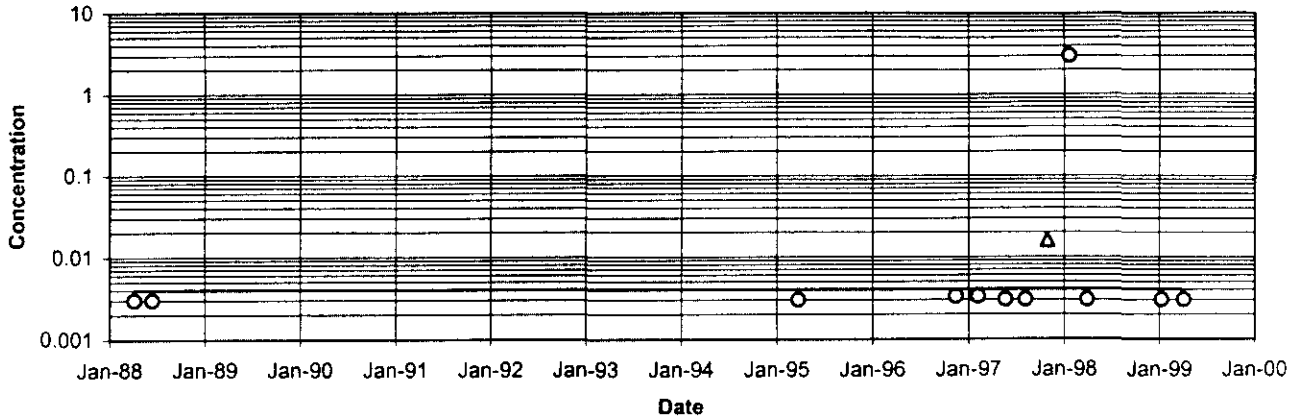
G114



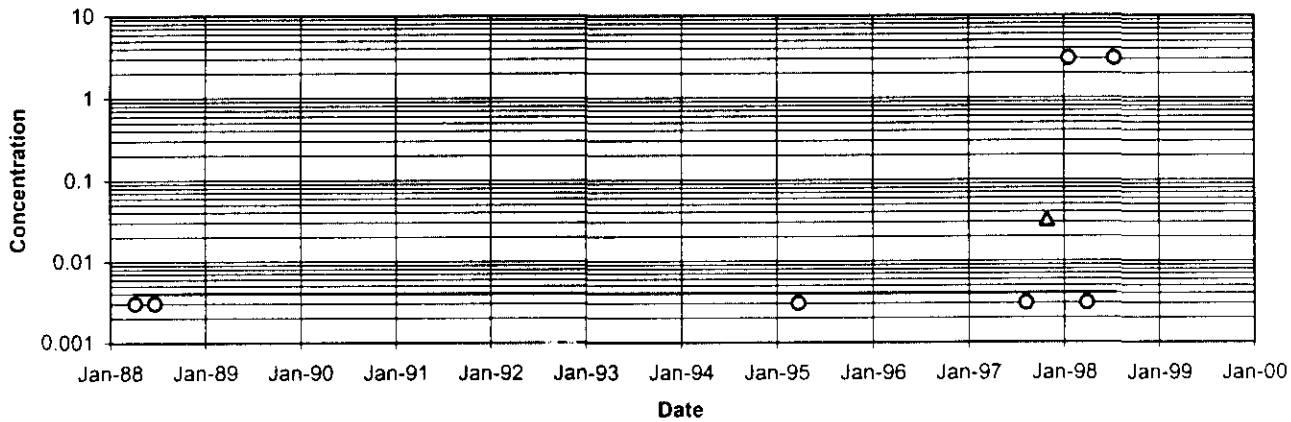
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

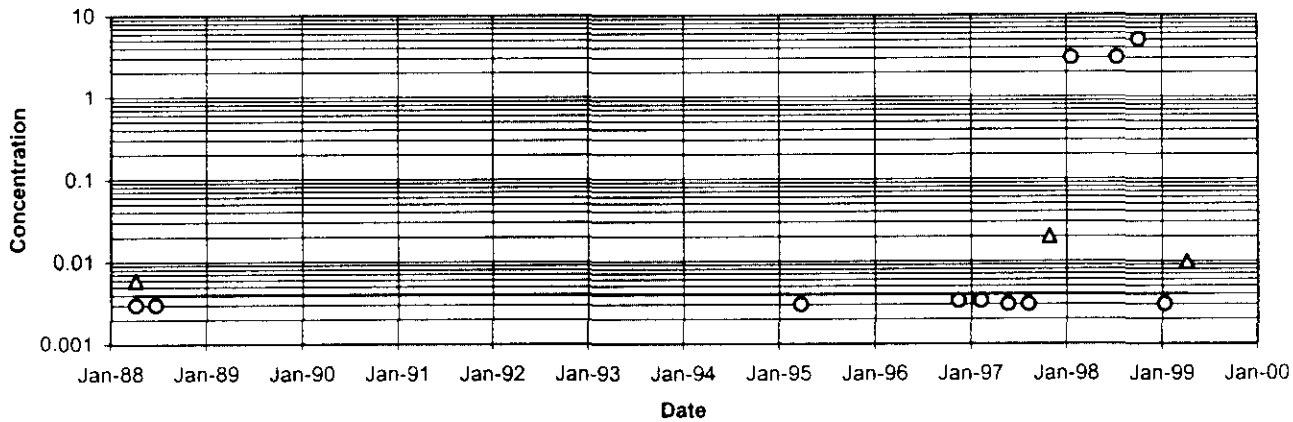
G115



G116



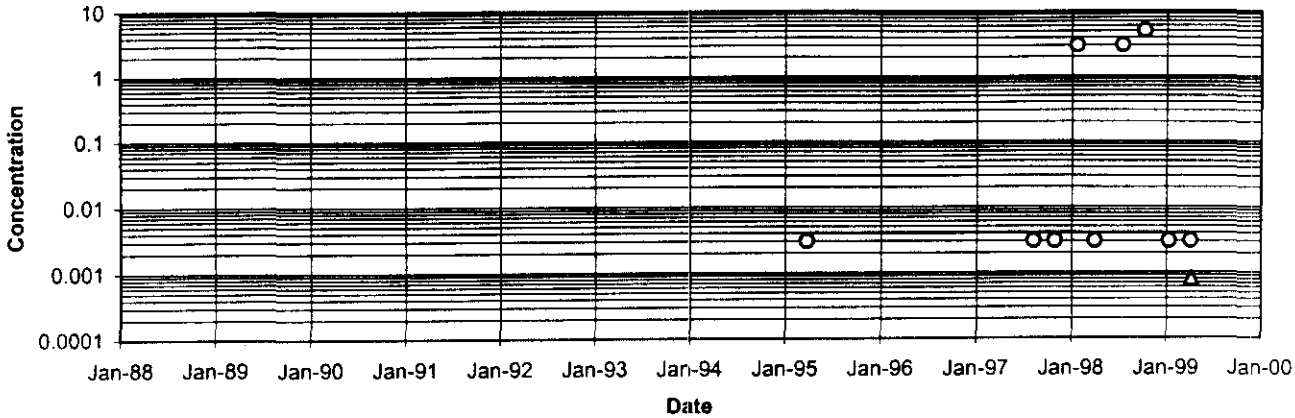
G116A



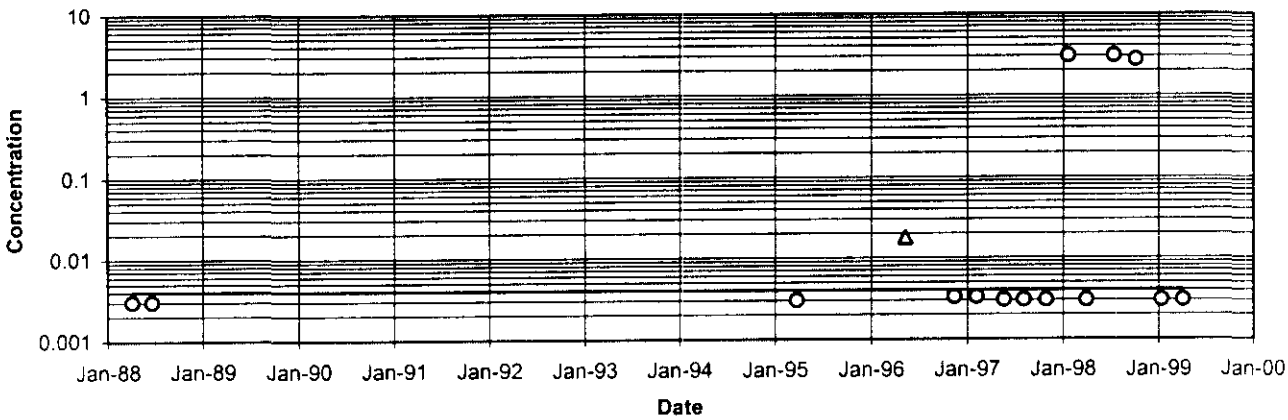
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

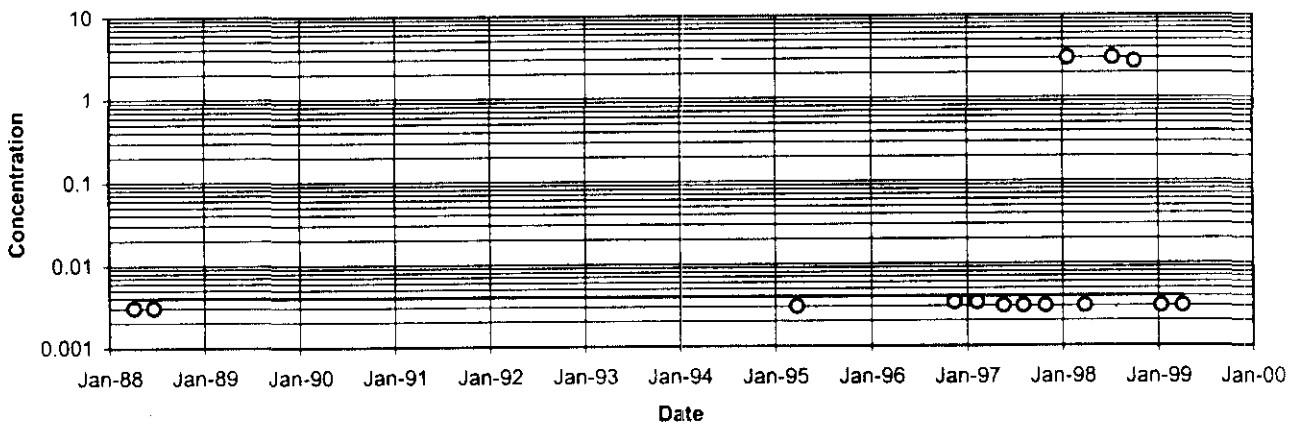
G116D



G117



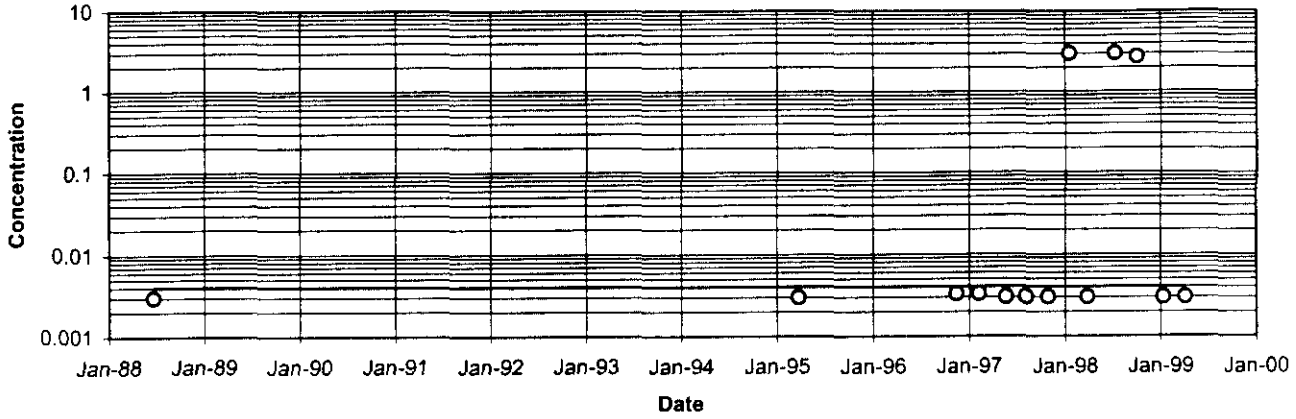
G118A



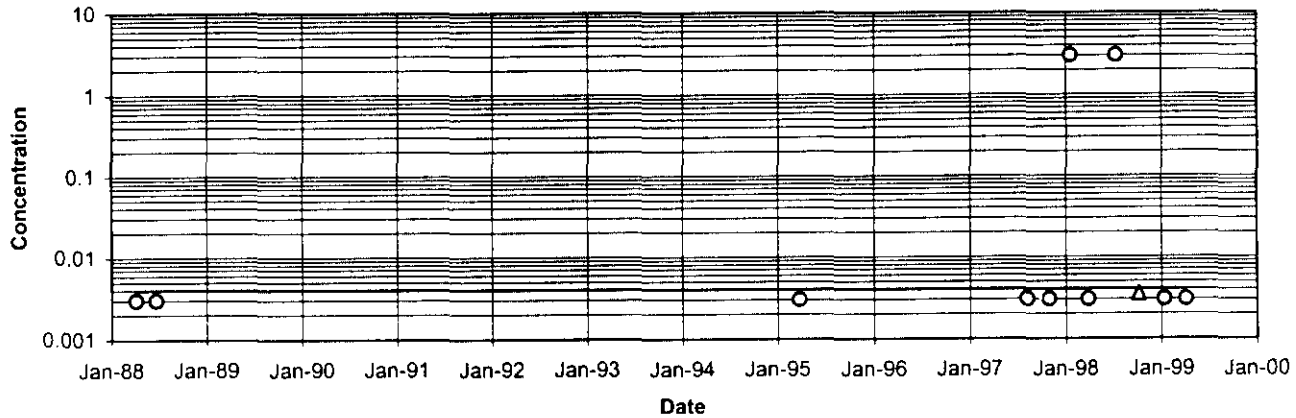
Lead (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

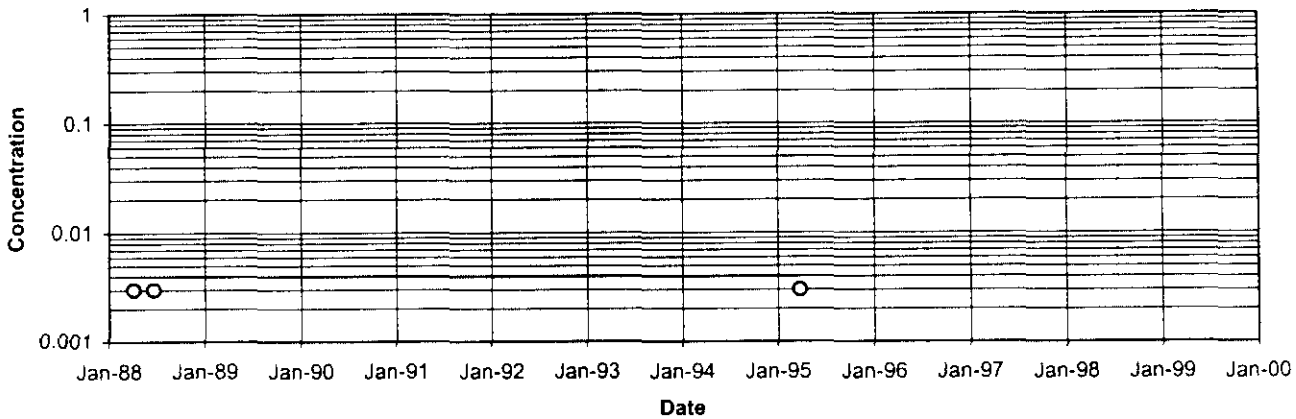
G118R



G119



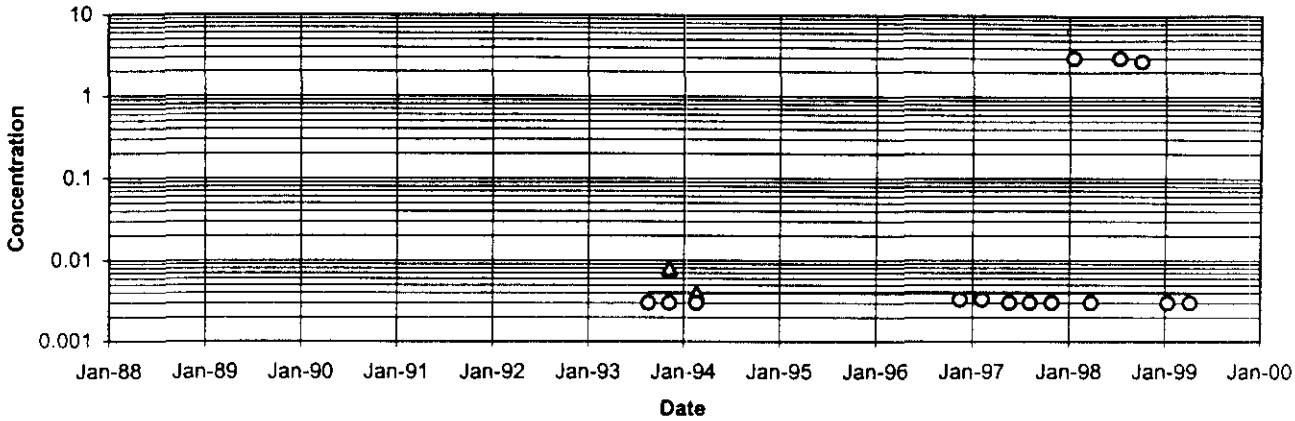
G119A



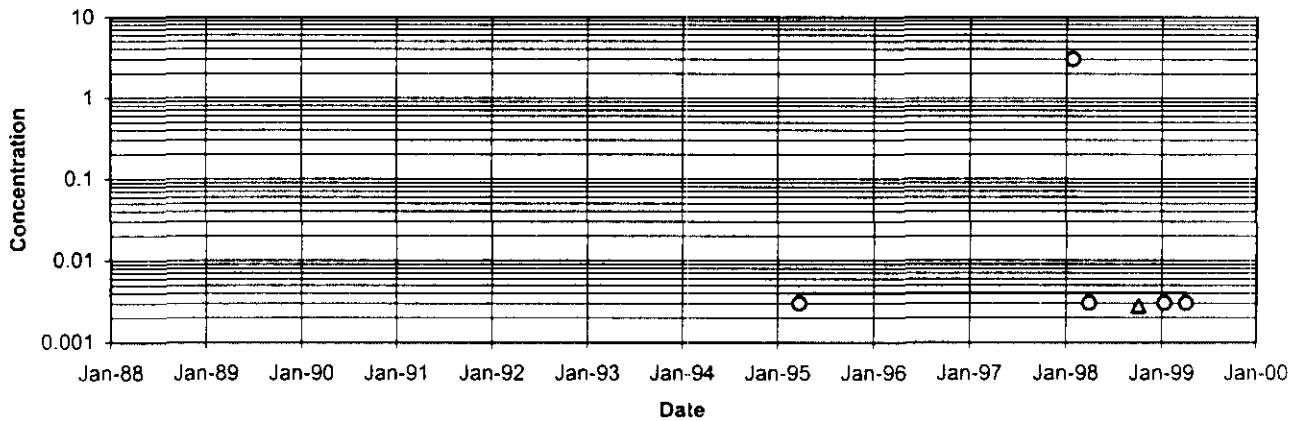
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

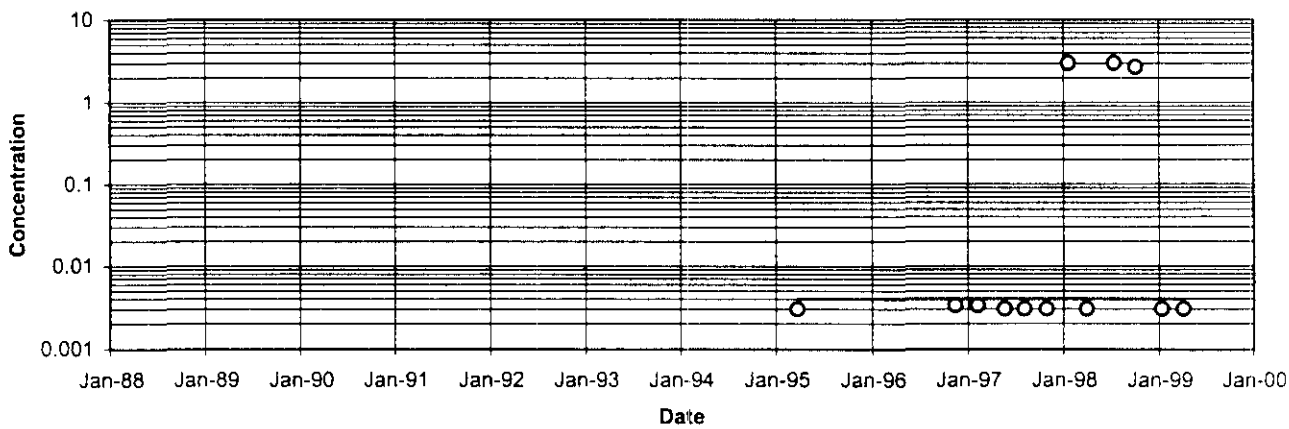
G120B



G130



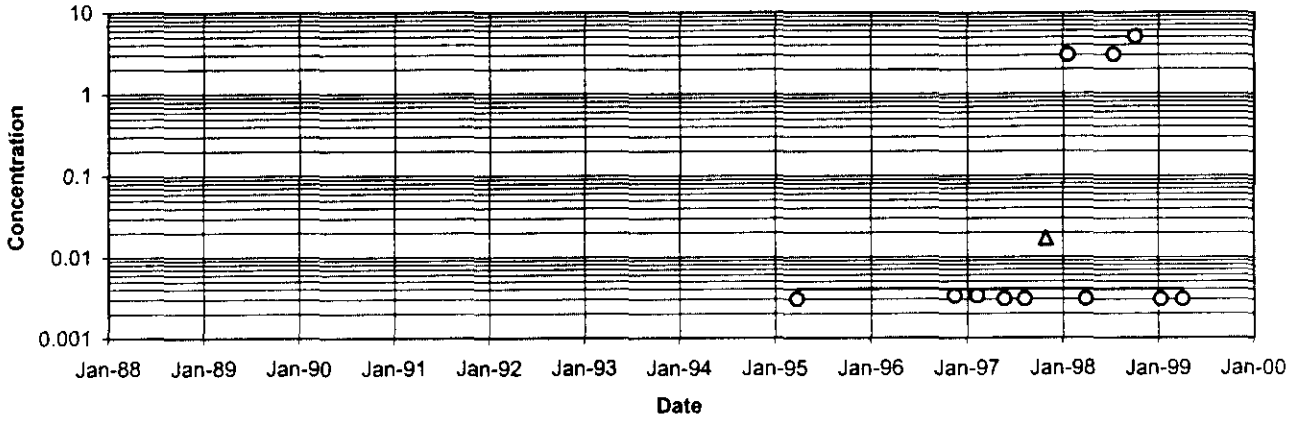
G132



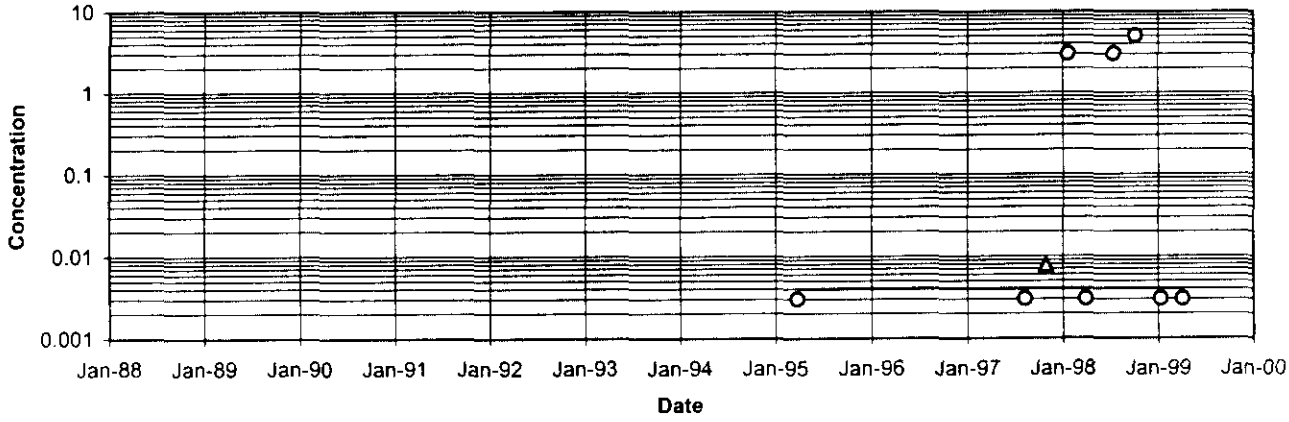
Lead (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

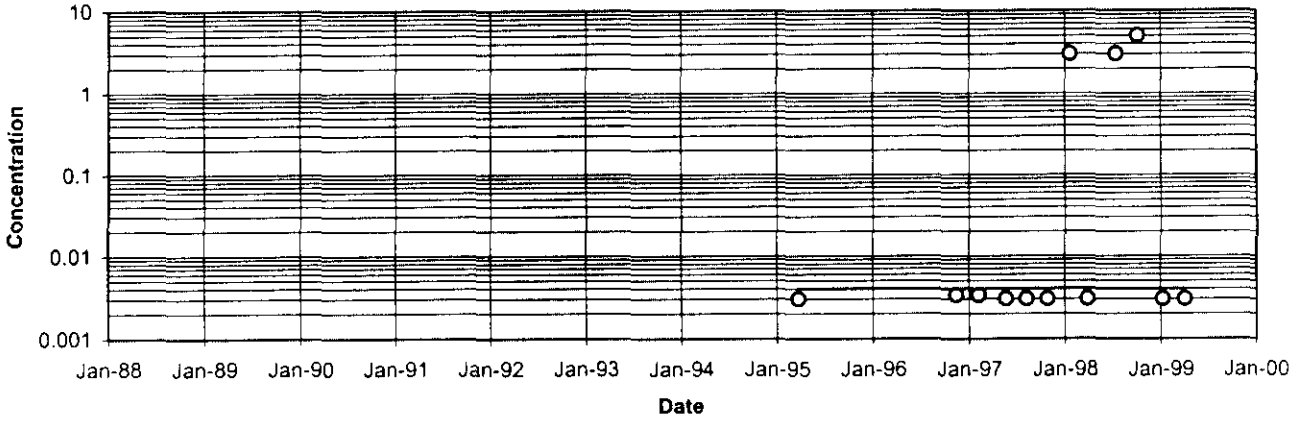
G33D



G33S



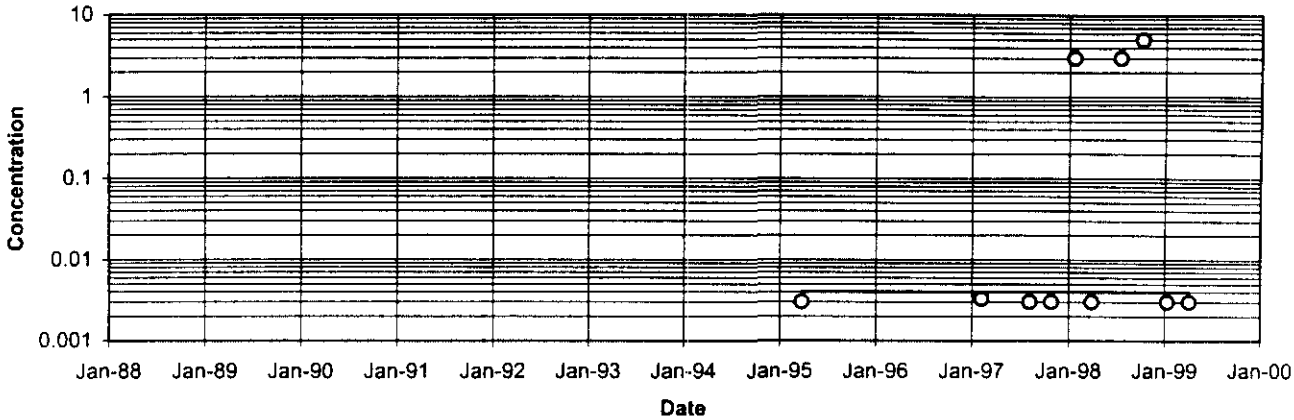
G34D



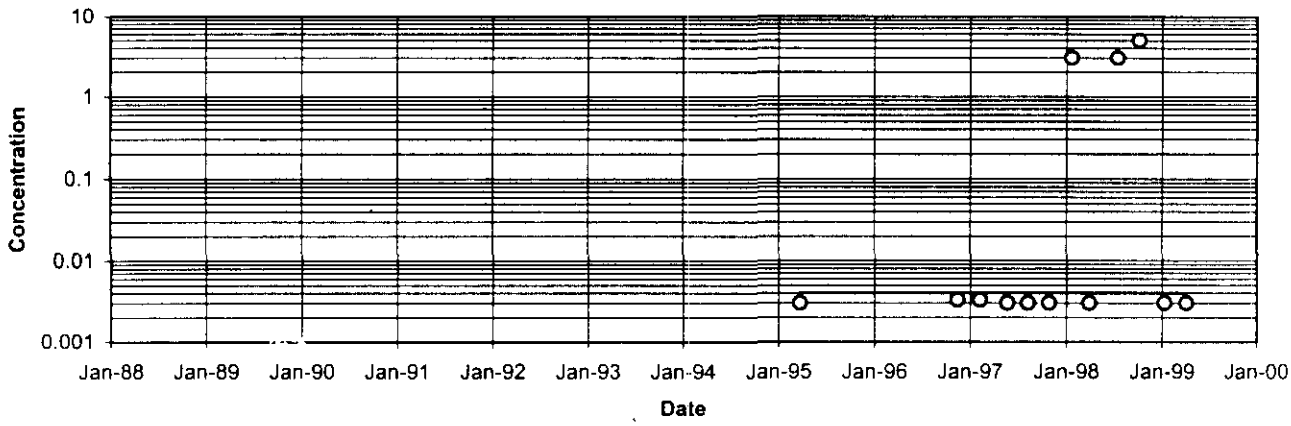
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

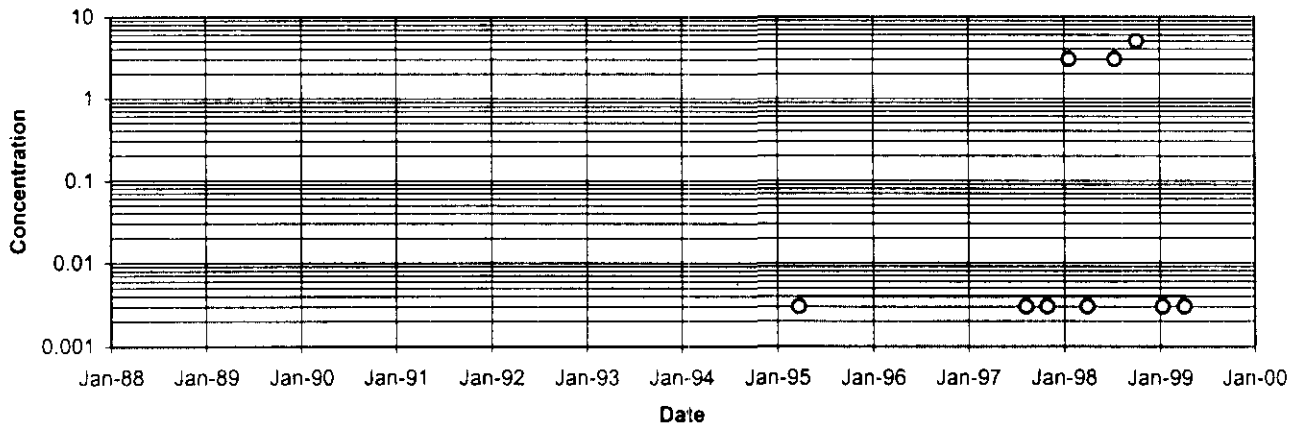
G34S



G35D



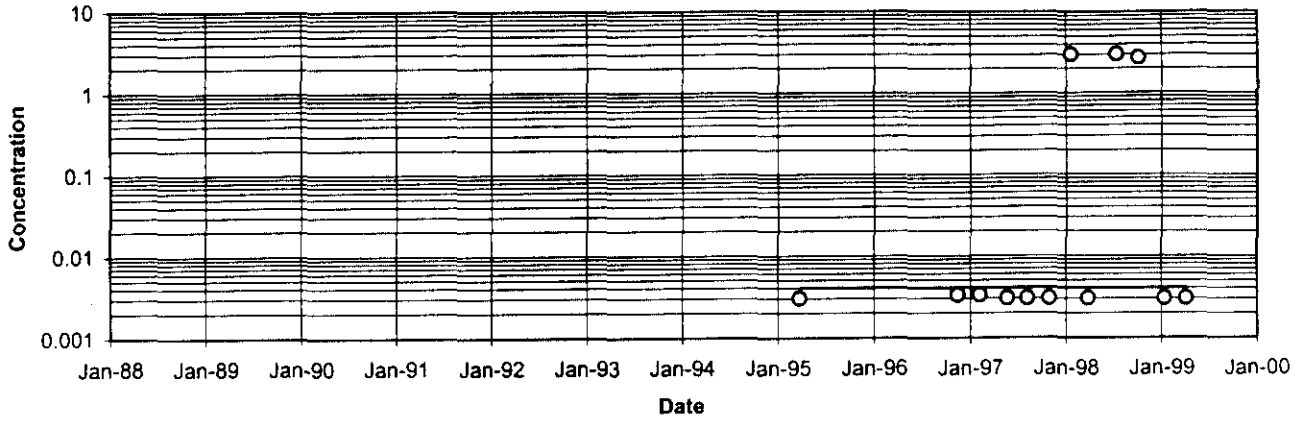
G35S



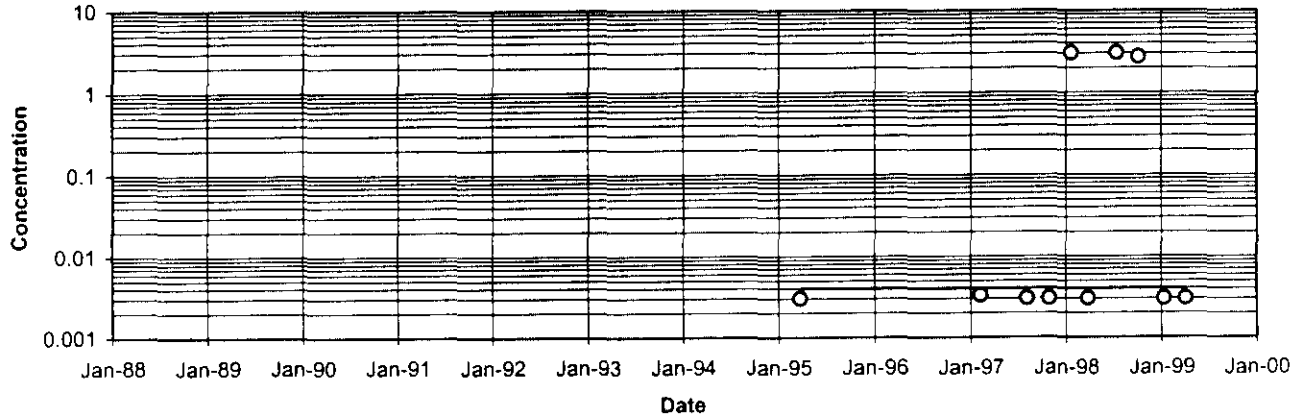
Lead (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

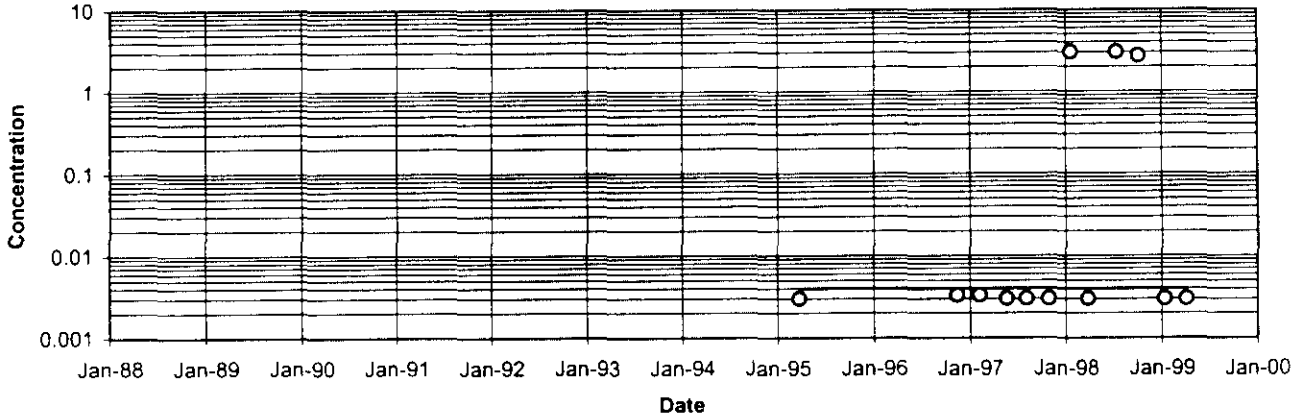
G36



G37D



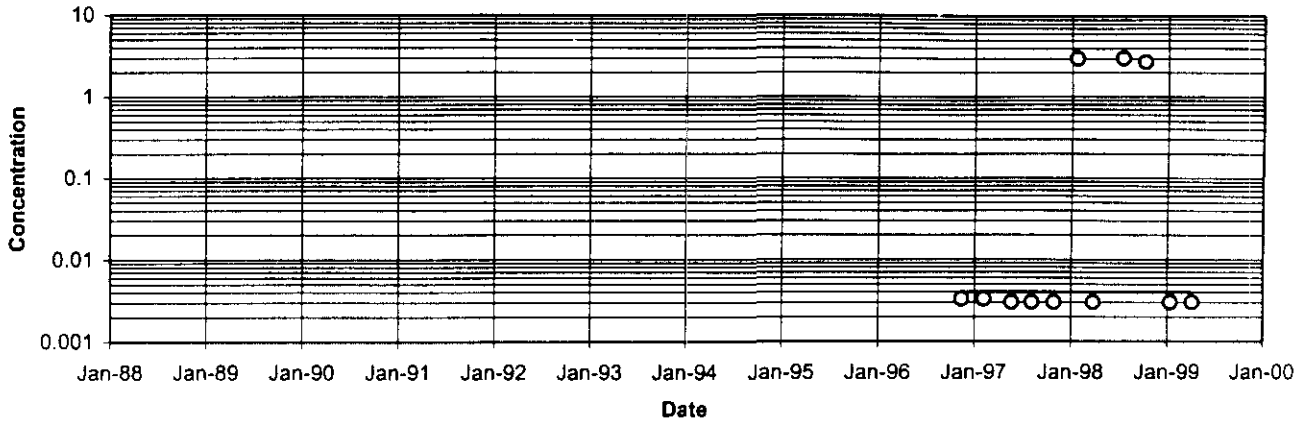
G37S



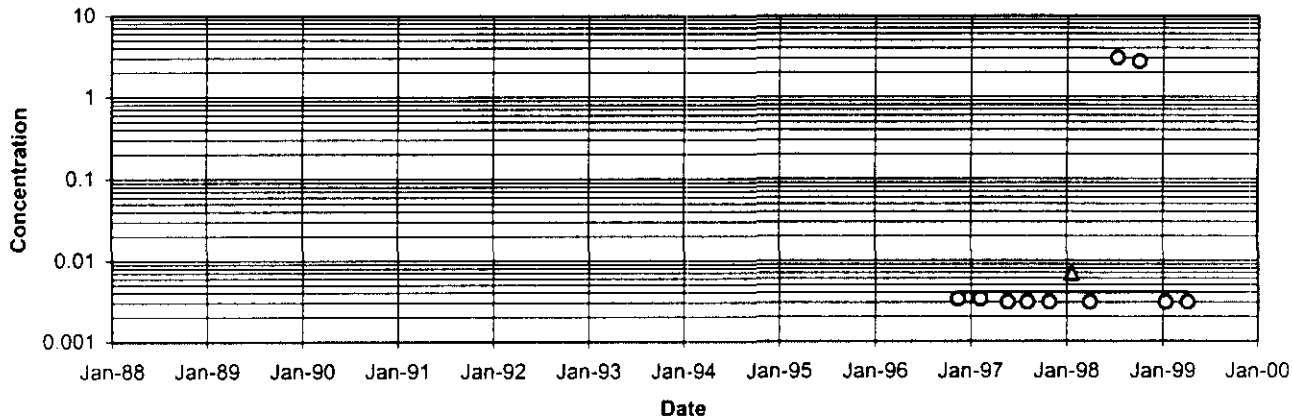
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

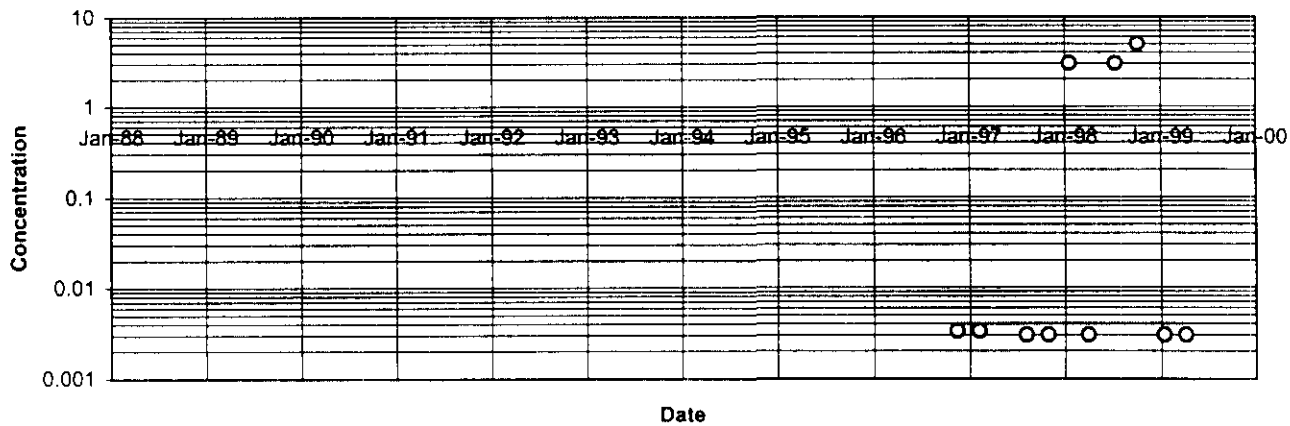
G38



G39



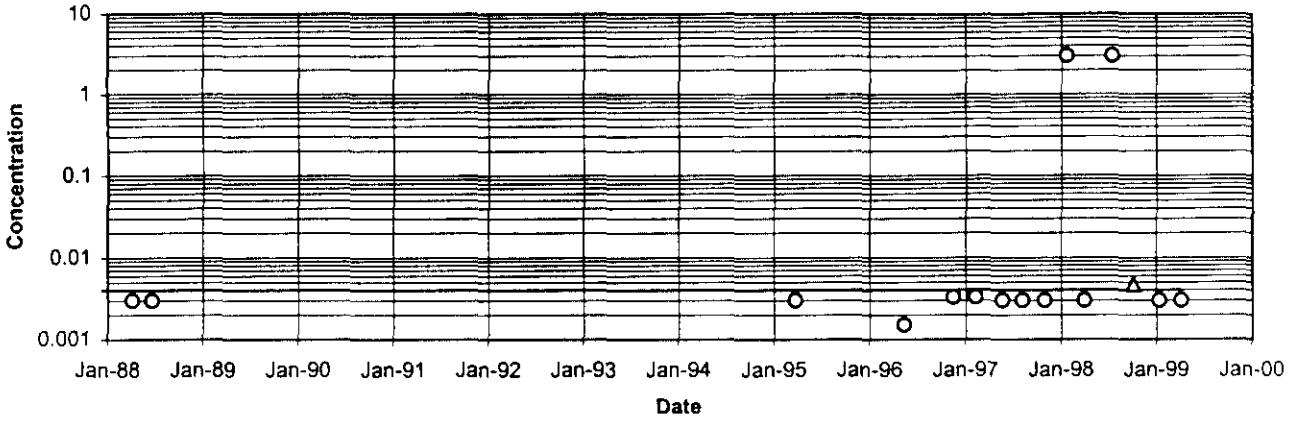
G40



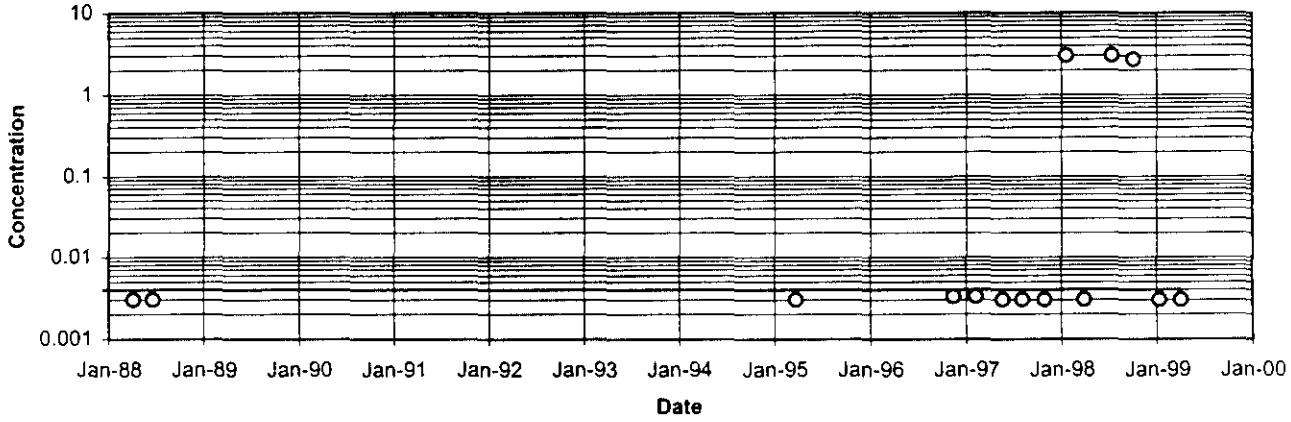
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

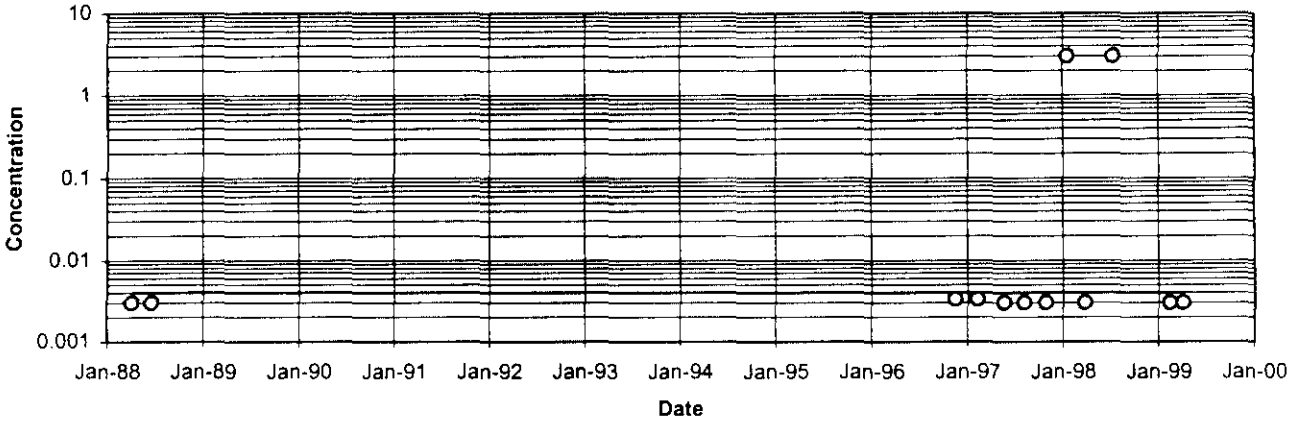
MW106



P1



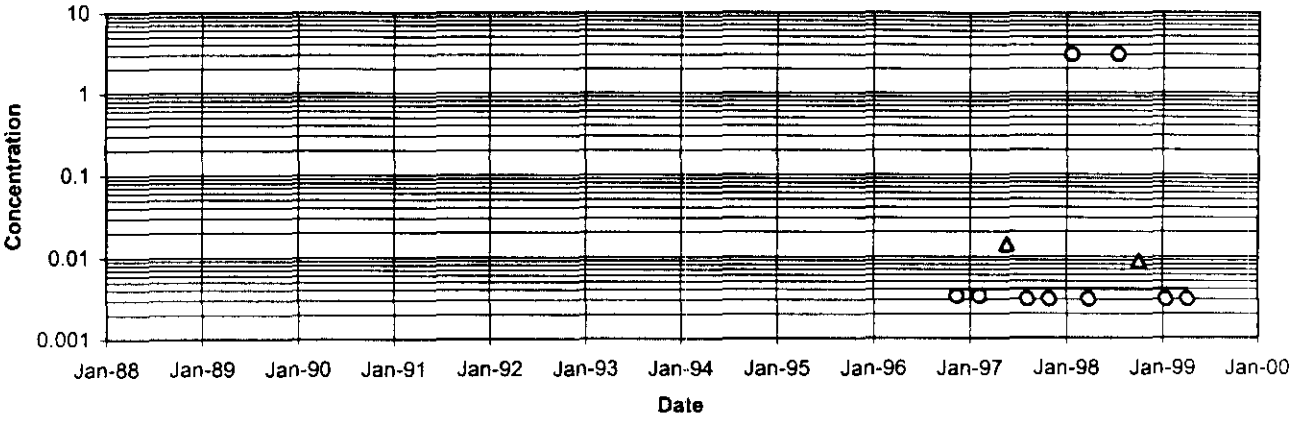
P3R



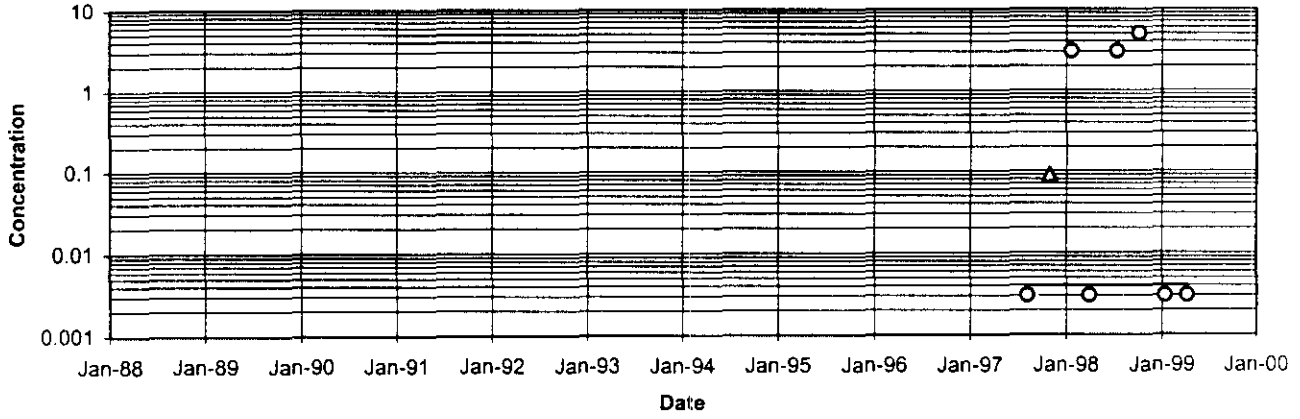
Lead (dis) (mg/L)

AGQS Δ Concentration O NonDetect

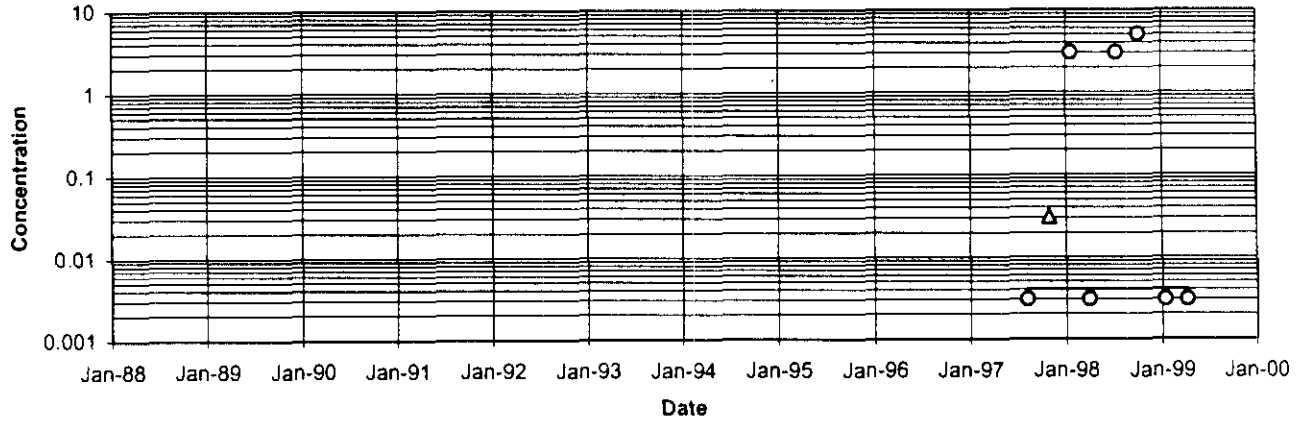
P4R

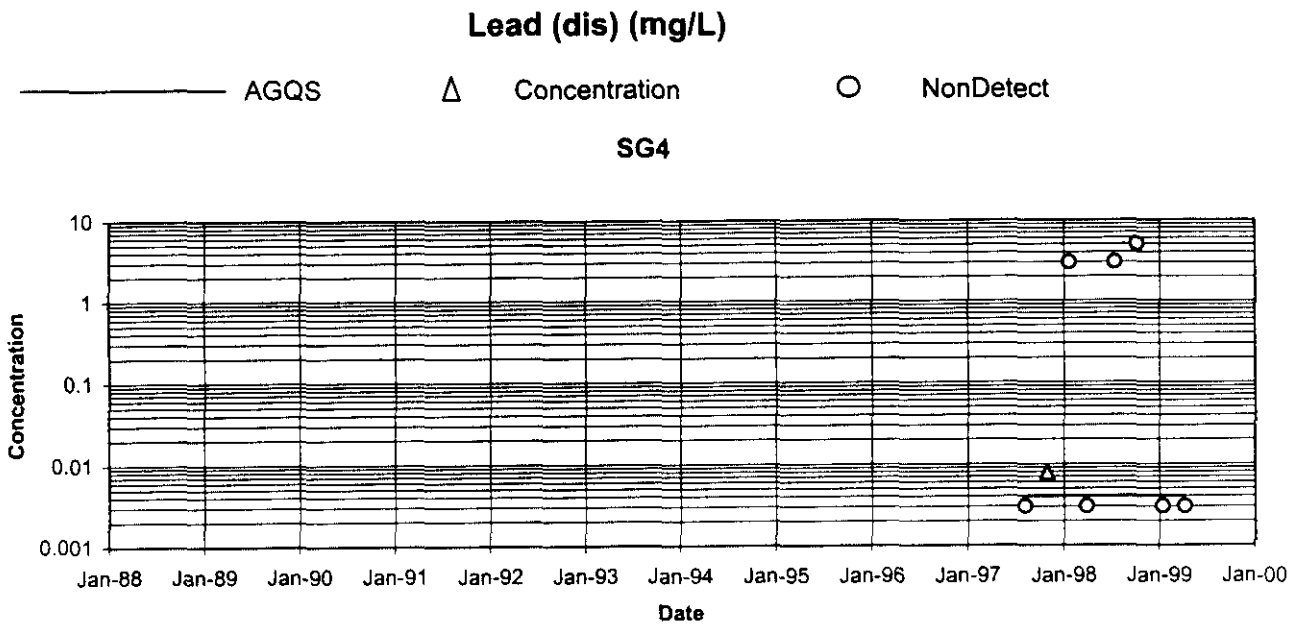


SG1



SG3

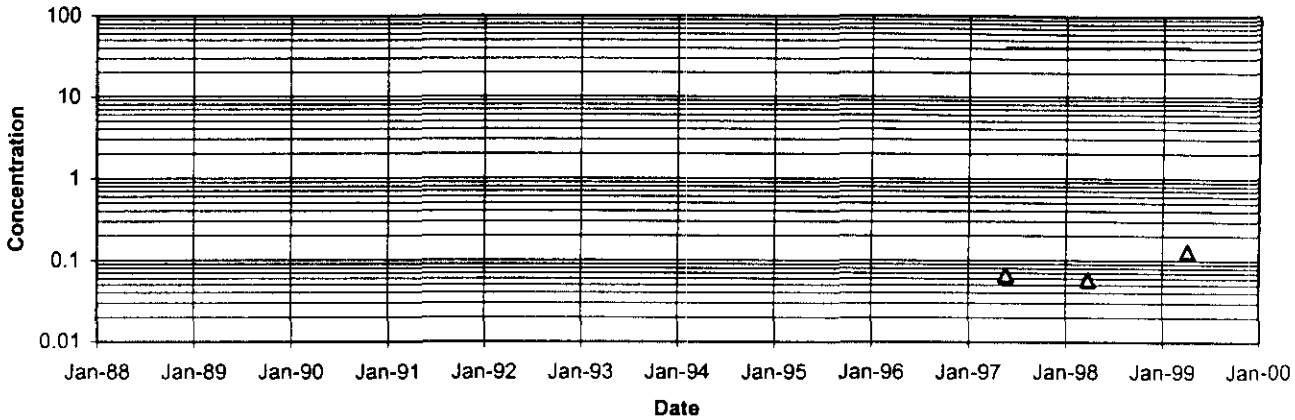



Lead (dis) (mg/L)
AGQS
Concentration
NonDetect
SG4
10
1
0.1
0.01
0.001
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

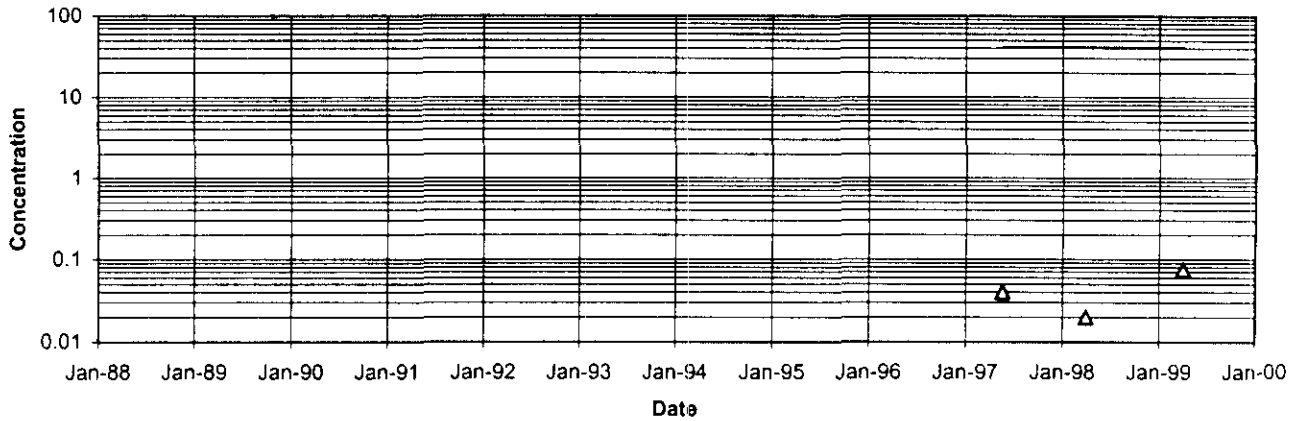
Lead (mg/L)

AGQS Δ Concentration O NonDetect

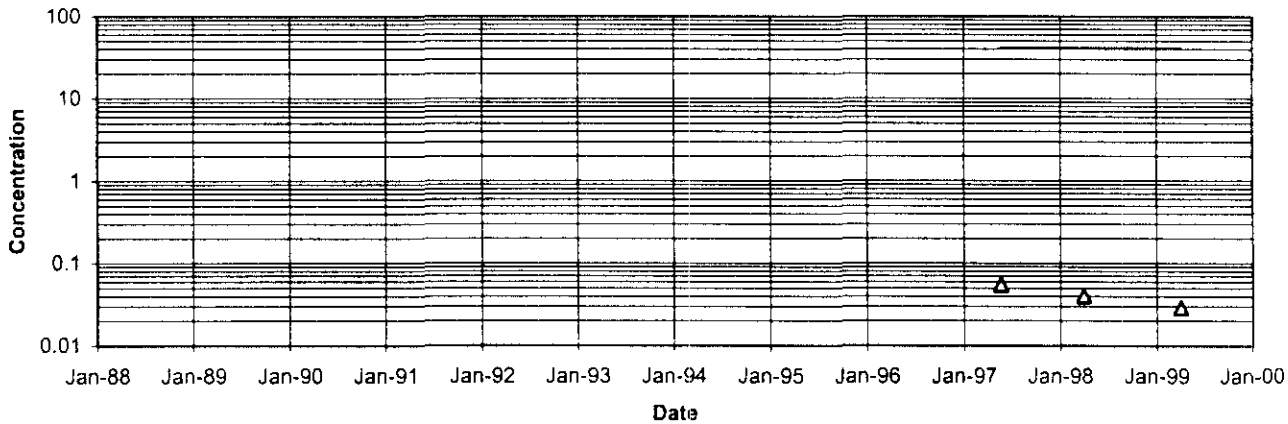
B15R



G109



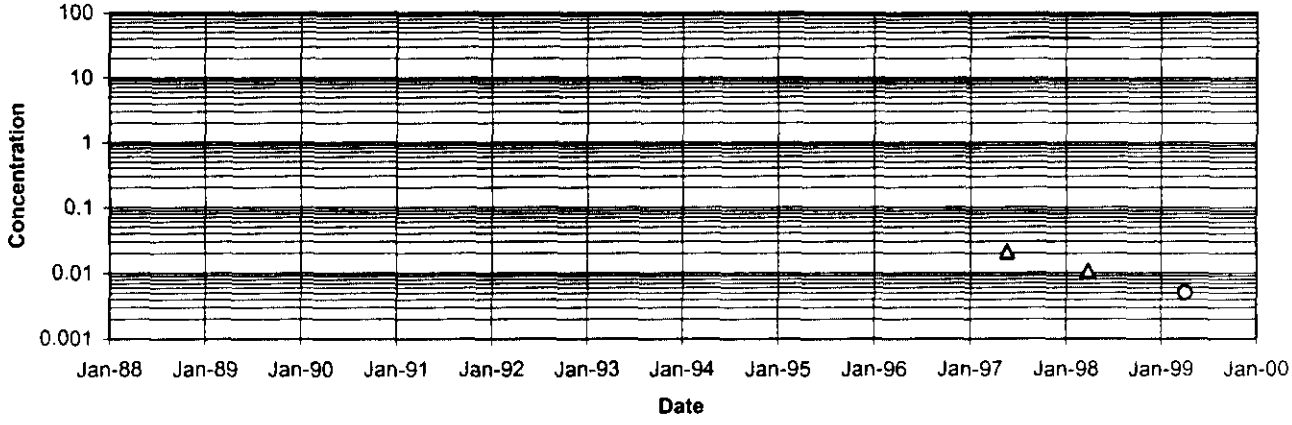
G109A



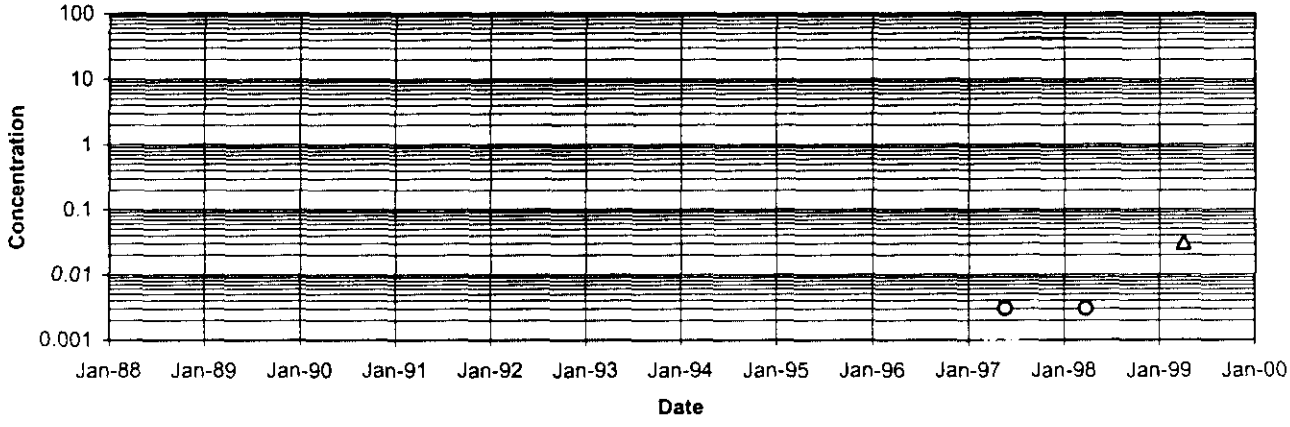
Lead (mg/L)

AGQS Δ Concentration ○ NonDetect

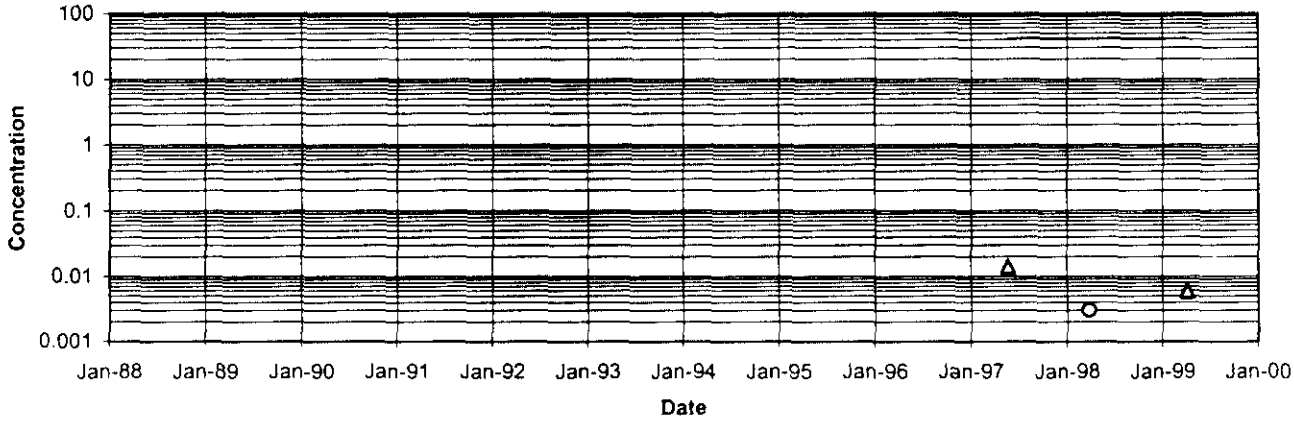
G113



G113A



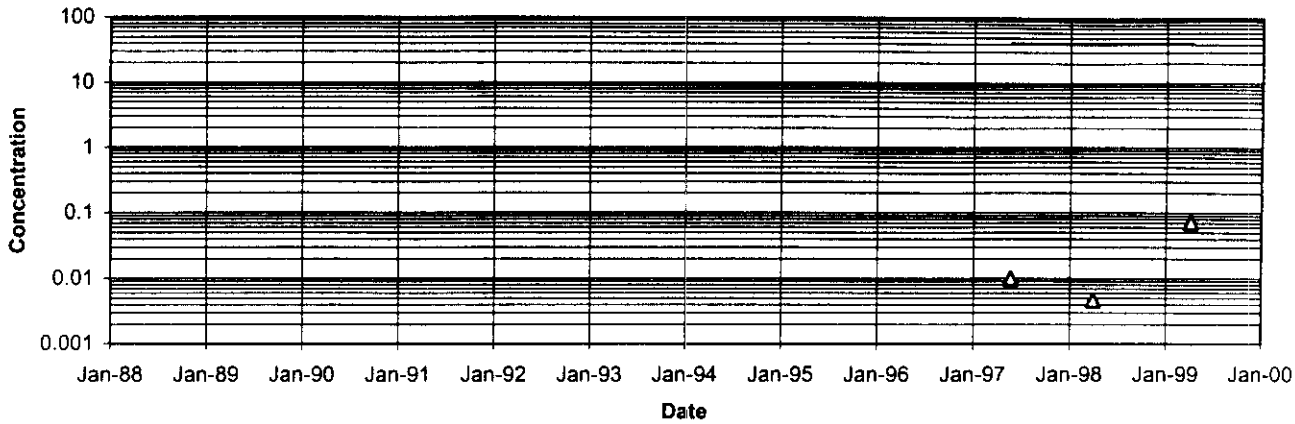
G114



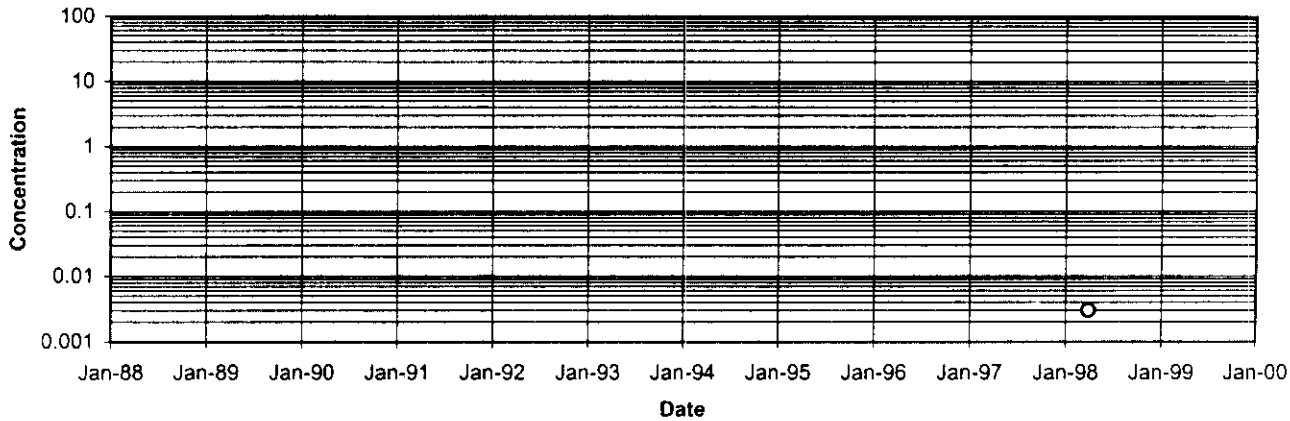
Lead (mg/L)

AGQS Δ Concentration O NonDetect

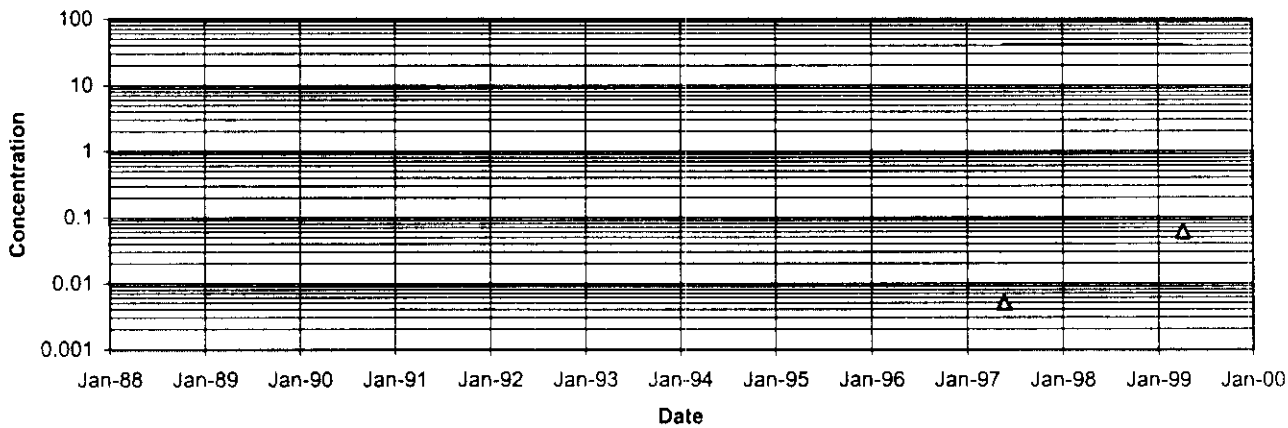
G115



G116



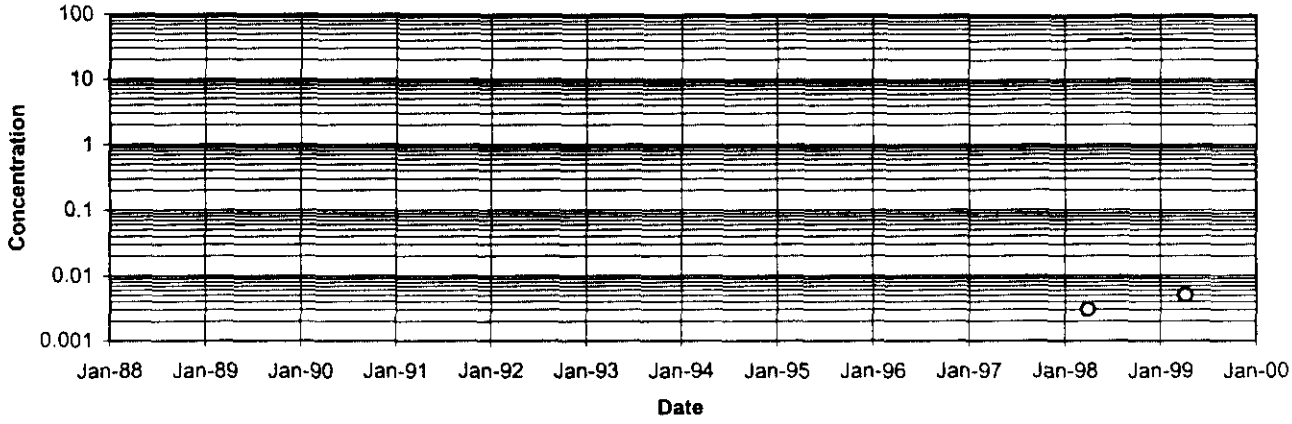
G116A



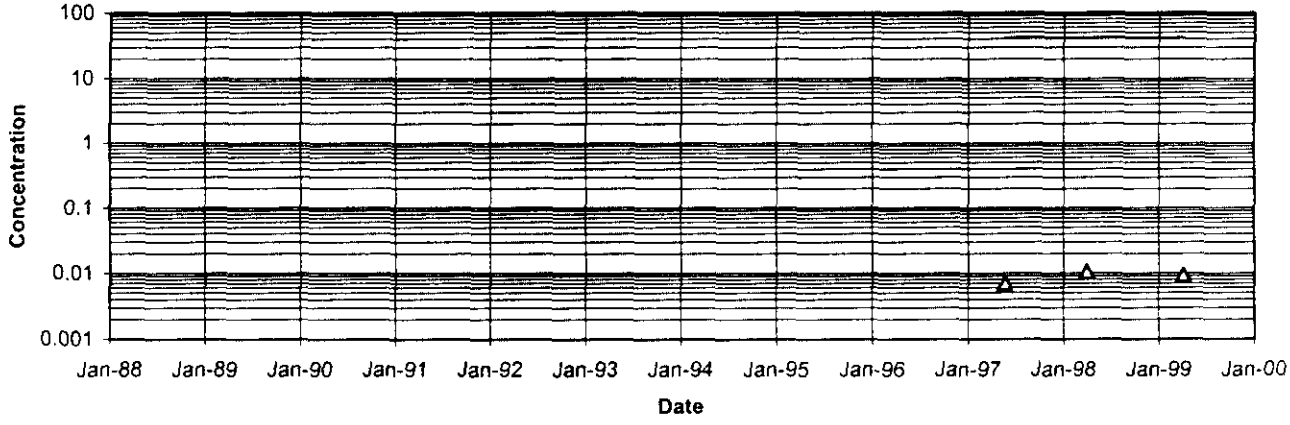
Lead (mg/L)

AGQS Δ Concentration O NonDetect

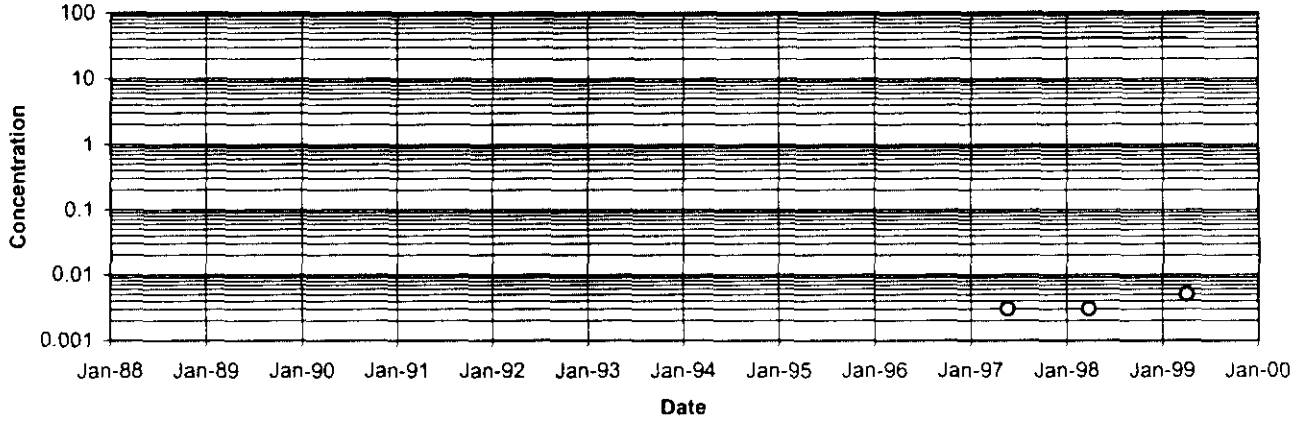
G116D



G117



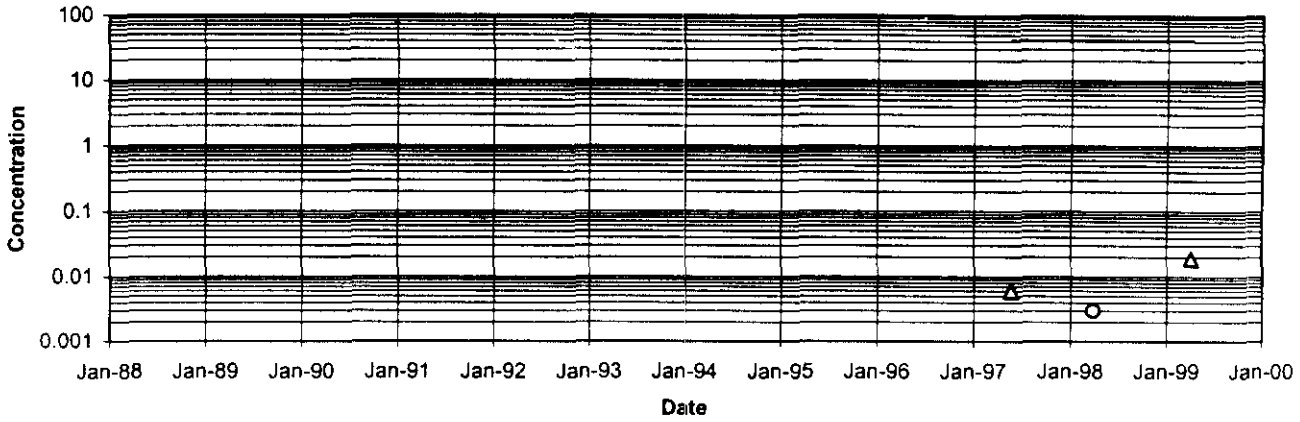
G118A



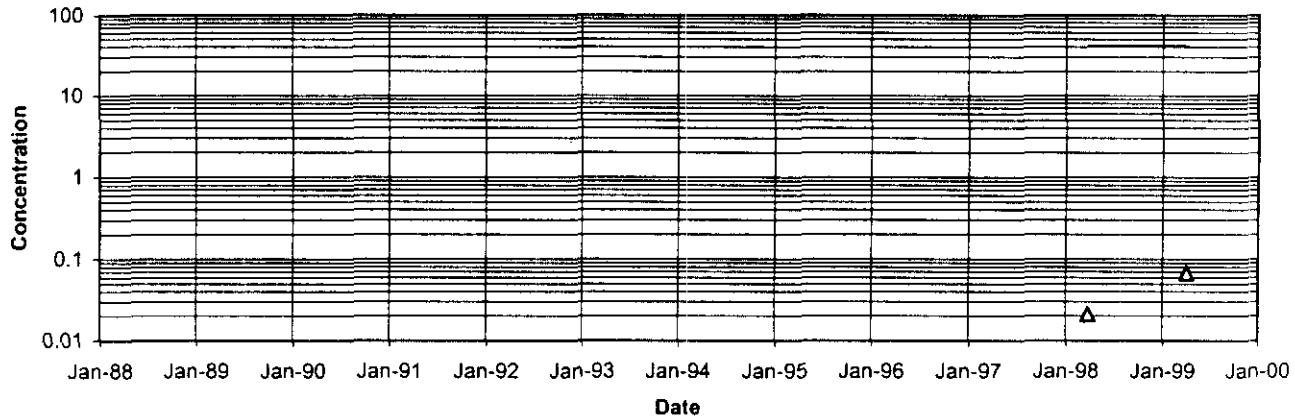
Lead (mg/L)

AGQS Δ Concentration O NonDetect

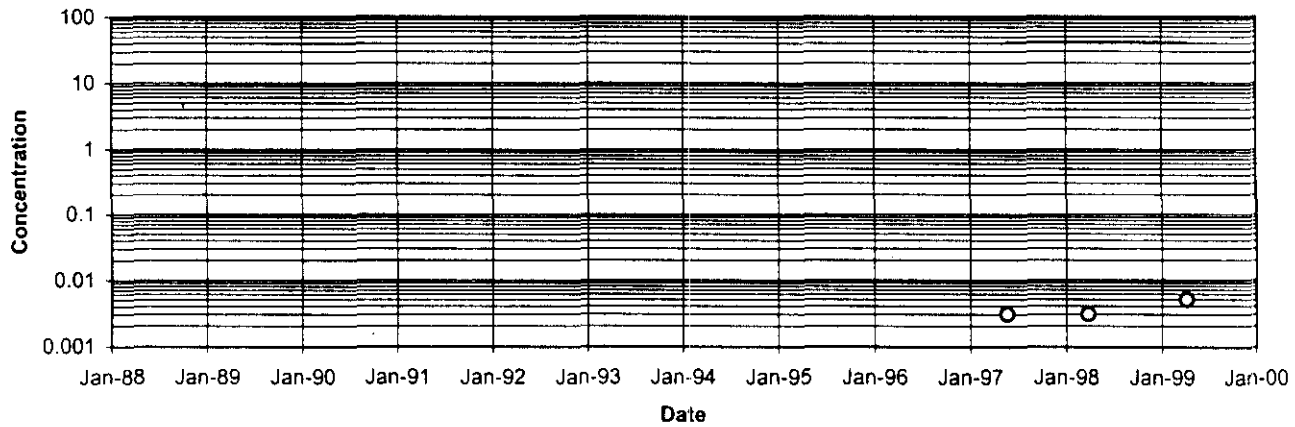
G118R



G119



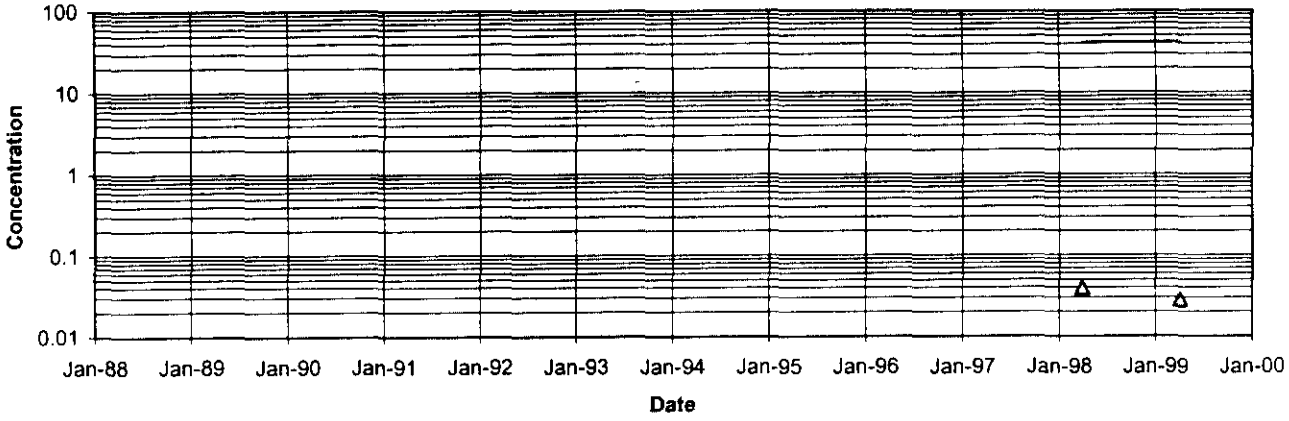
G120B



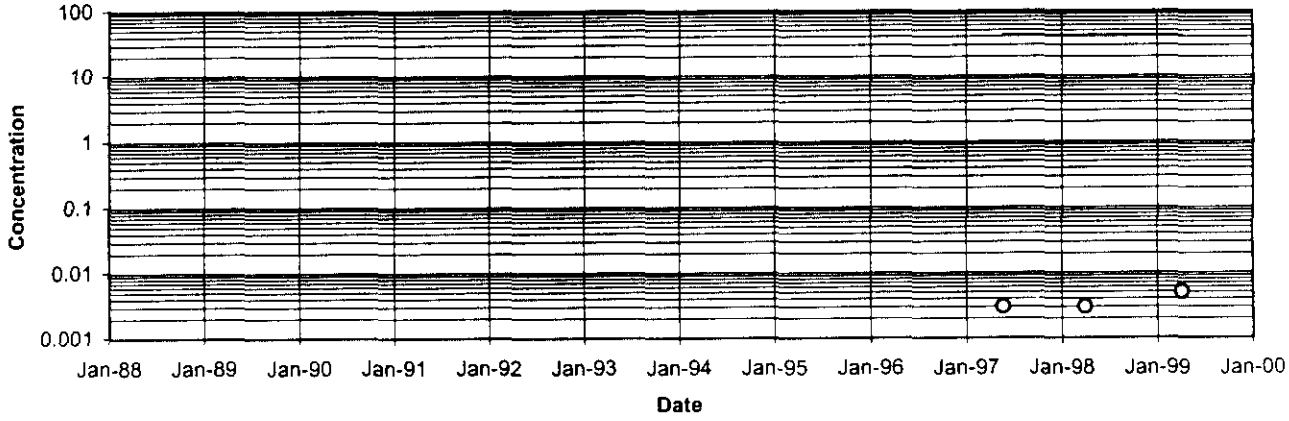
Lead (mg/L)

AGQS Δ Concentration O NonDetect

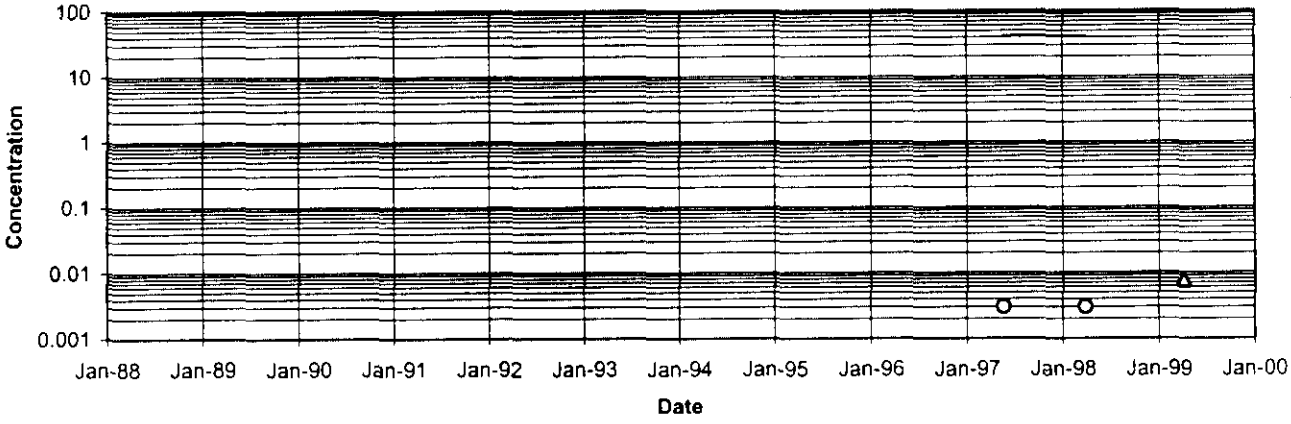
G130



G132



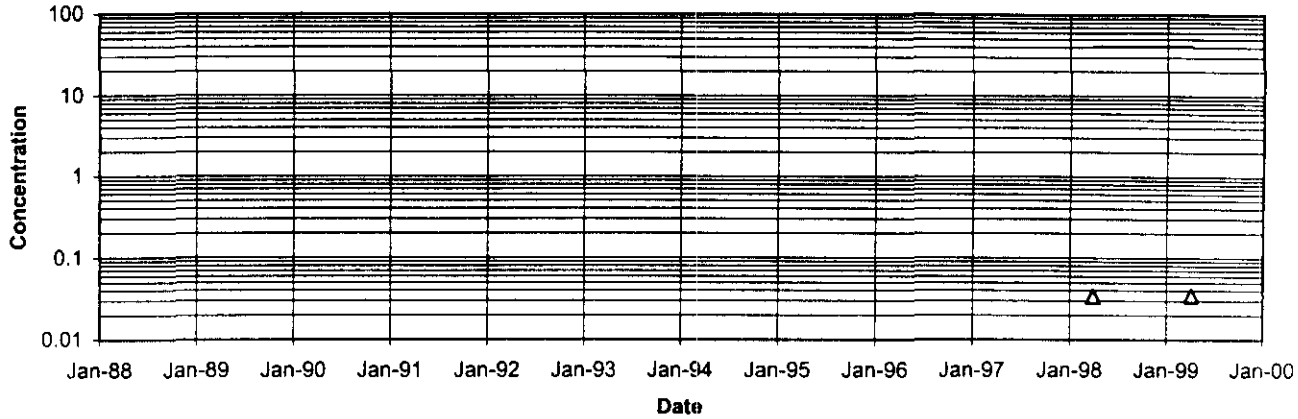
G33D



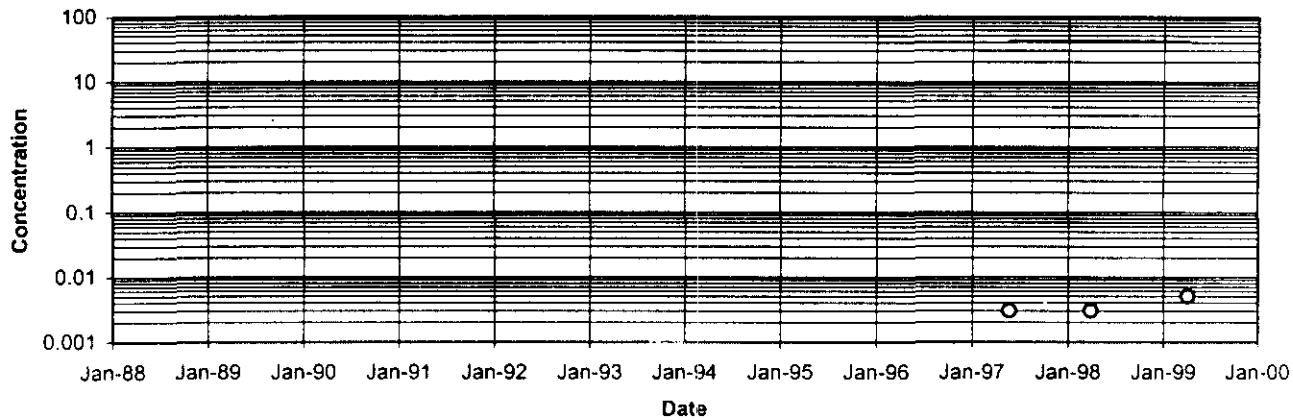
Lead (mg/L)

AGQS Δ Concentration O NonDetect

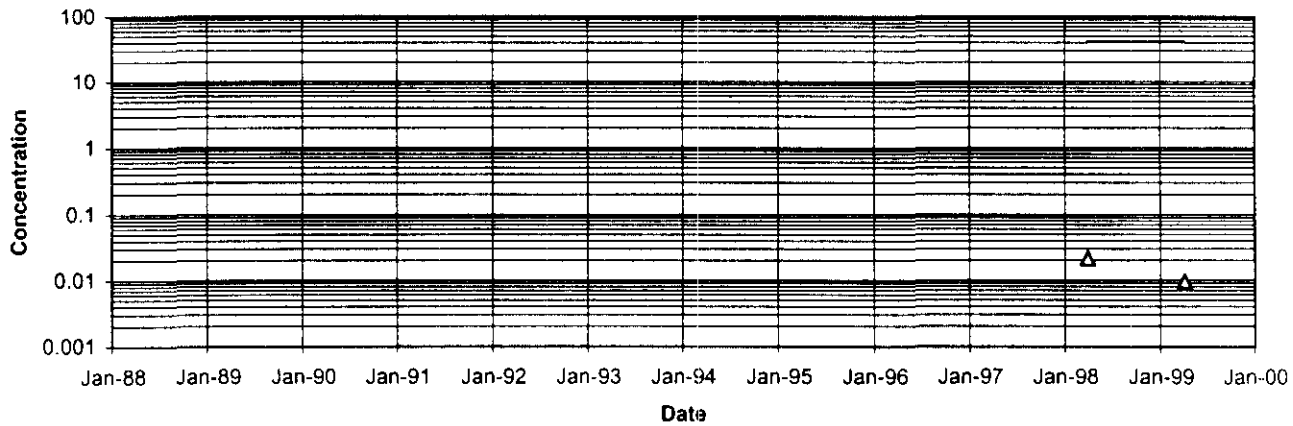
G33S



G34D



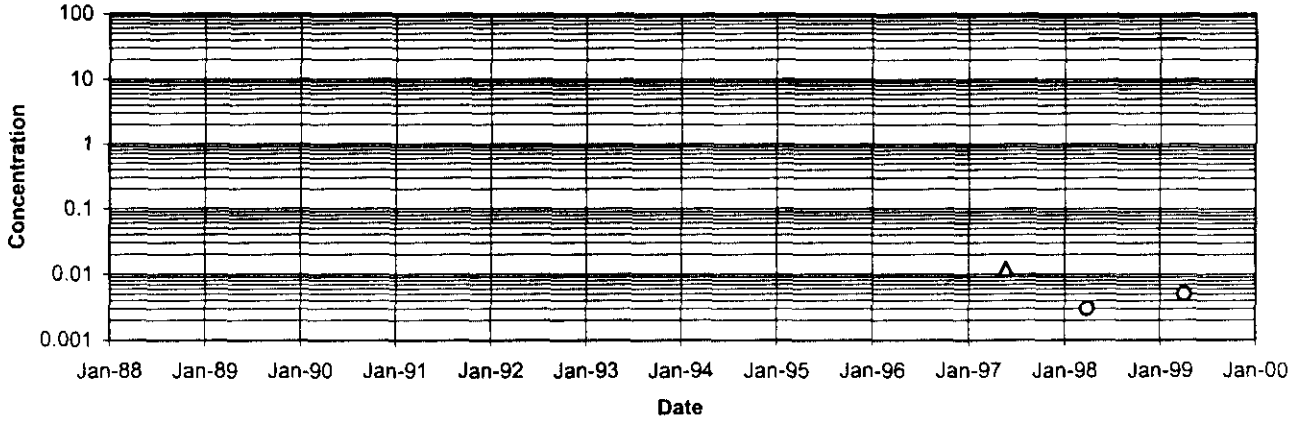
G34S



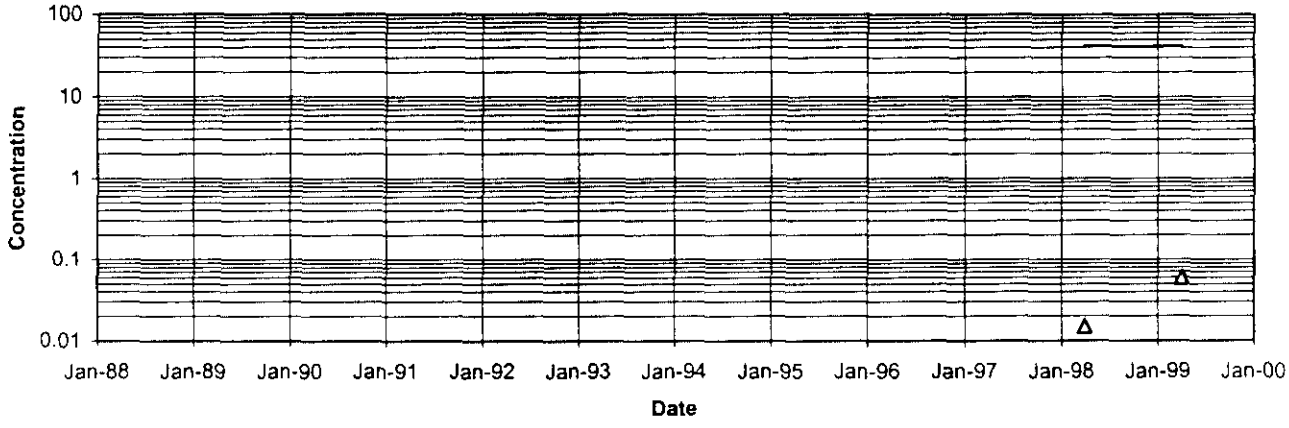
Lead (mg/L)

AGQS Δ Concentration O NonDetect

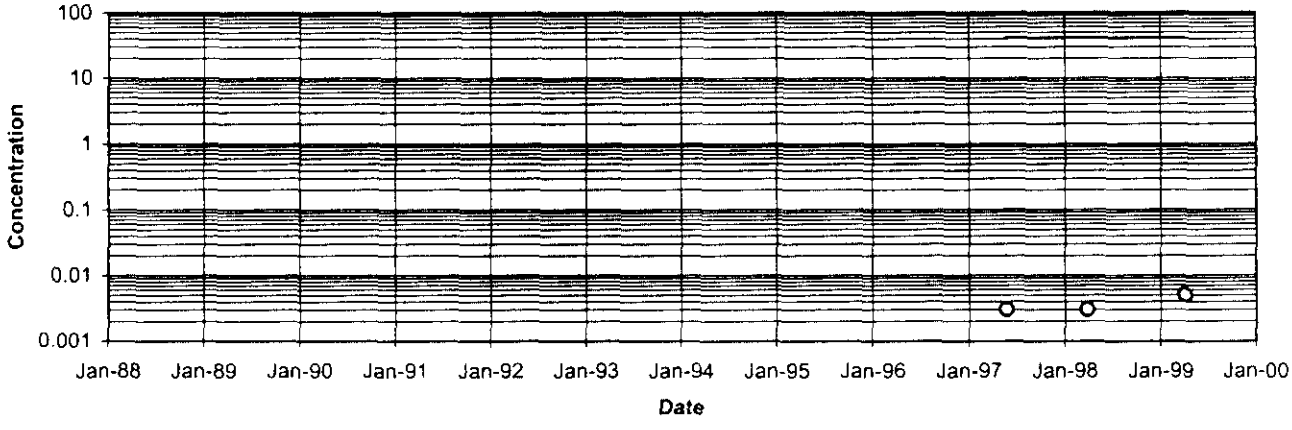
G35D



G35S



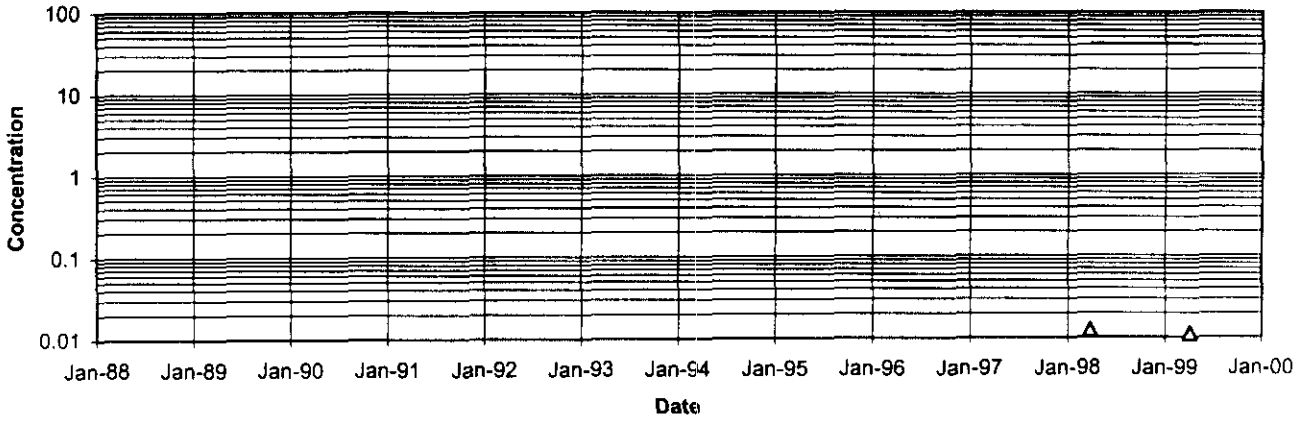
G36



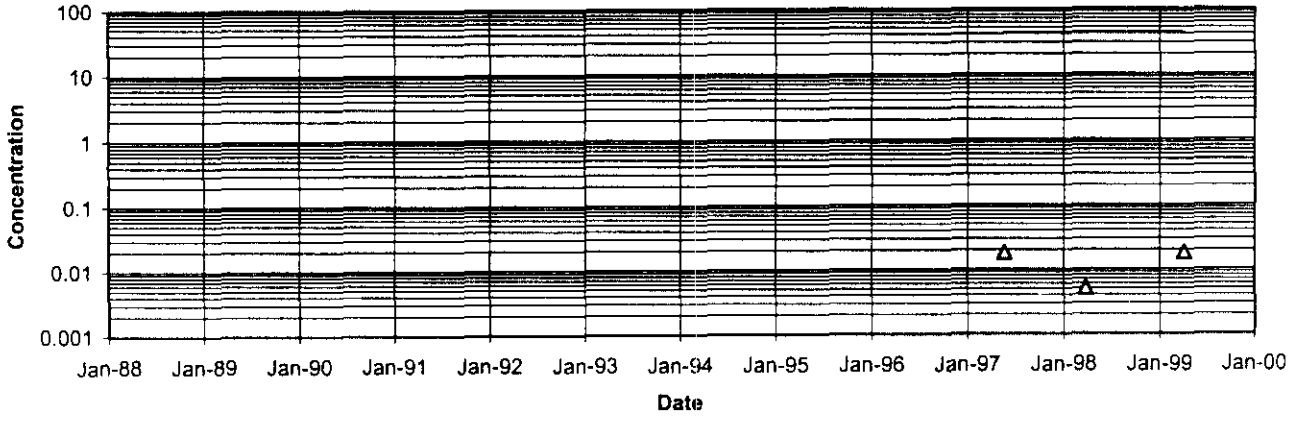
Lead (mg/L)

AGQS Δ Concentration ○ NonDetect

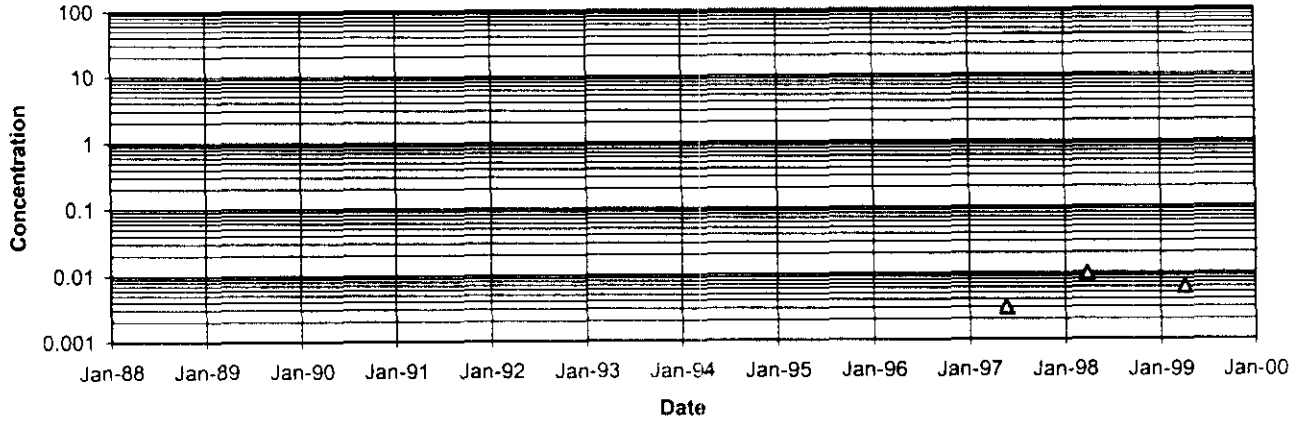
G37D



G37S



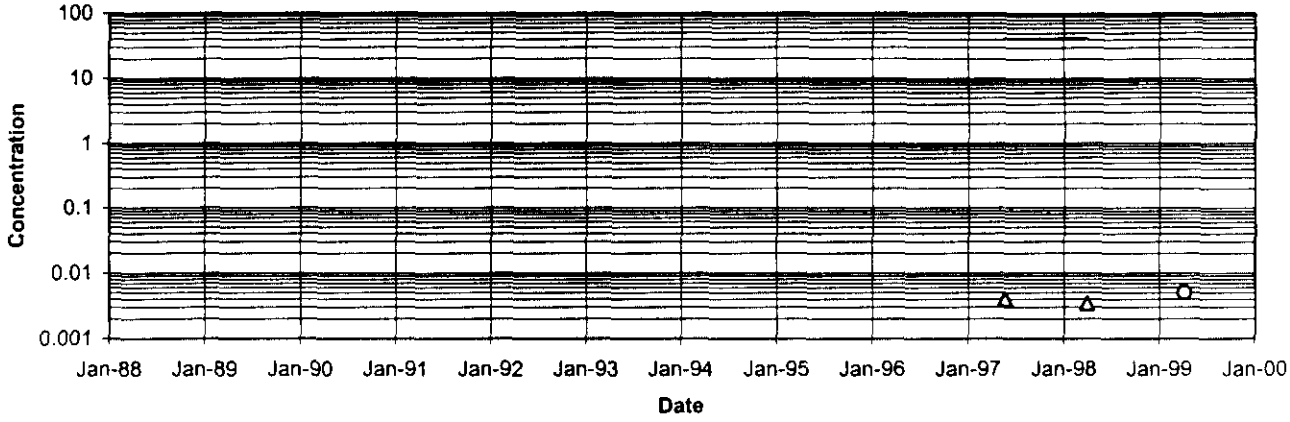
G38



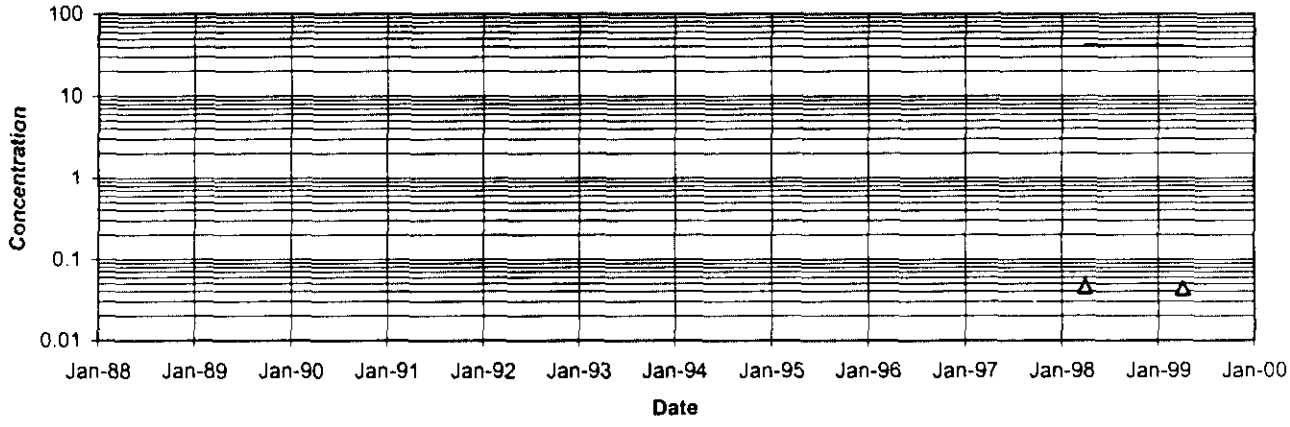
Lead (mg/L)

AGQS Δ Concentration O NonDetect

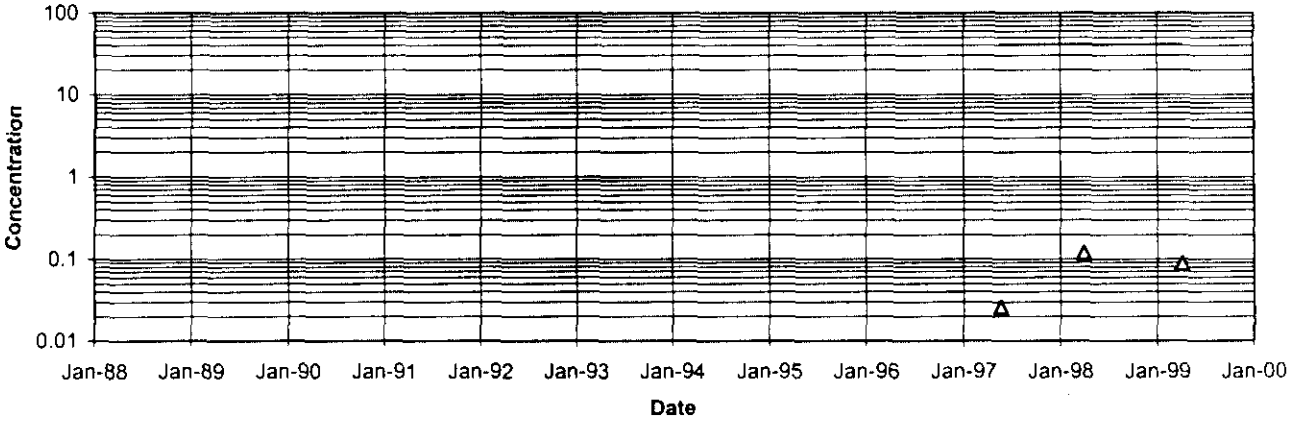
G39



G40



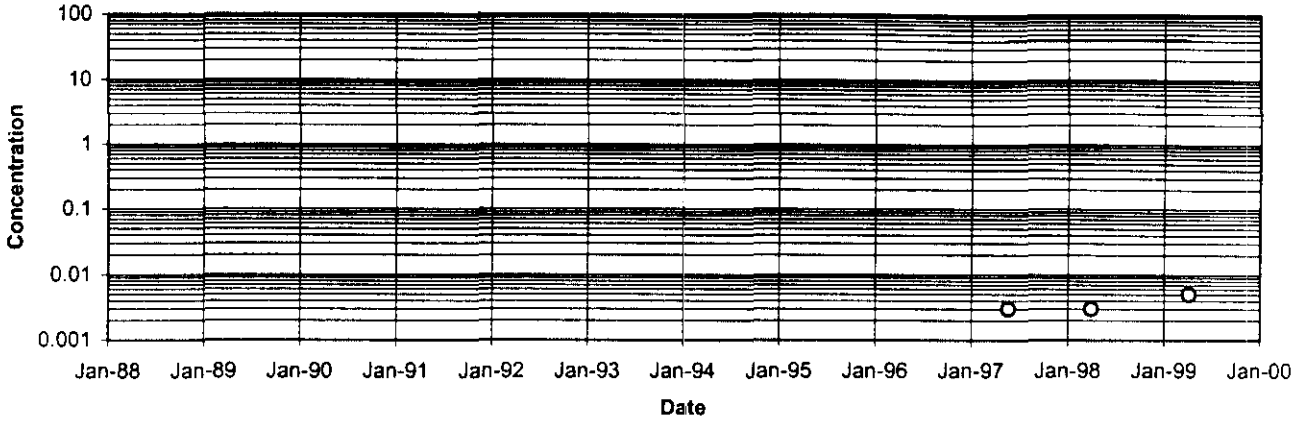
MW106



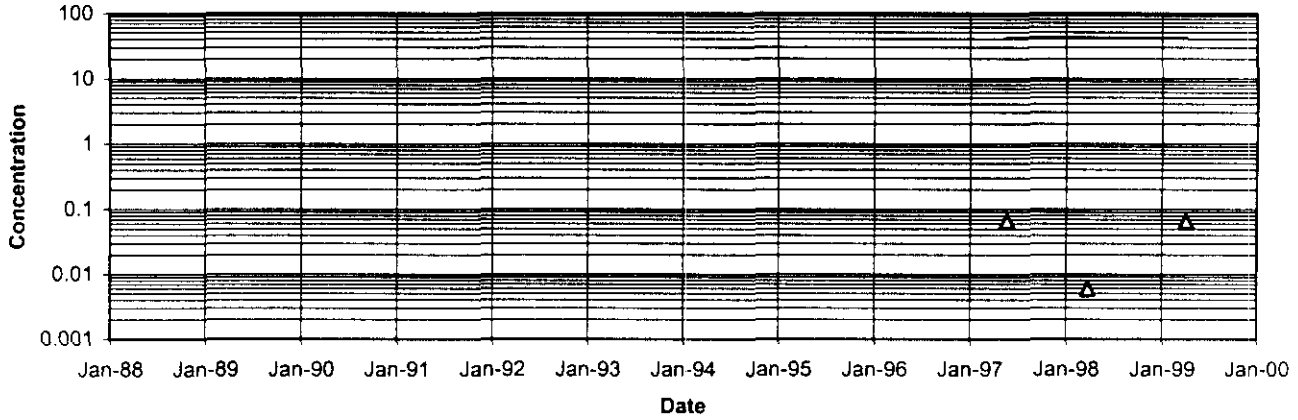
Lead (mg/L)

AGQS Δ Concentration O NonDetect

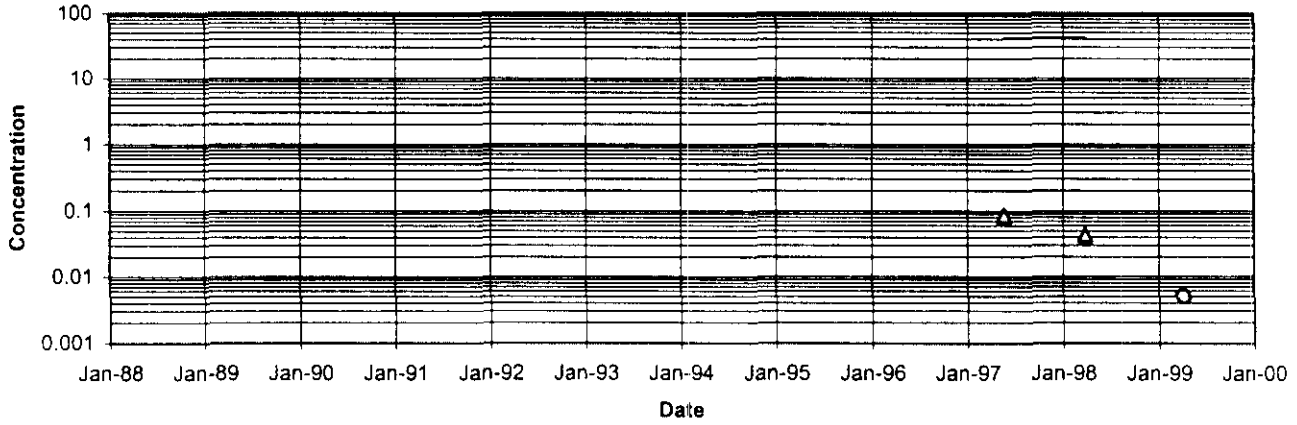
P1



P3R



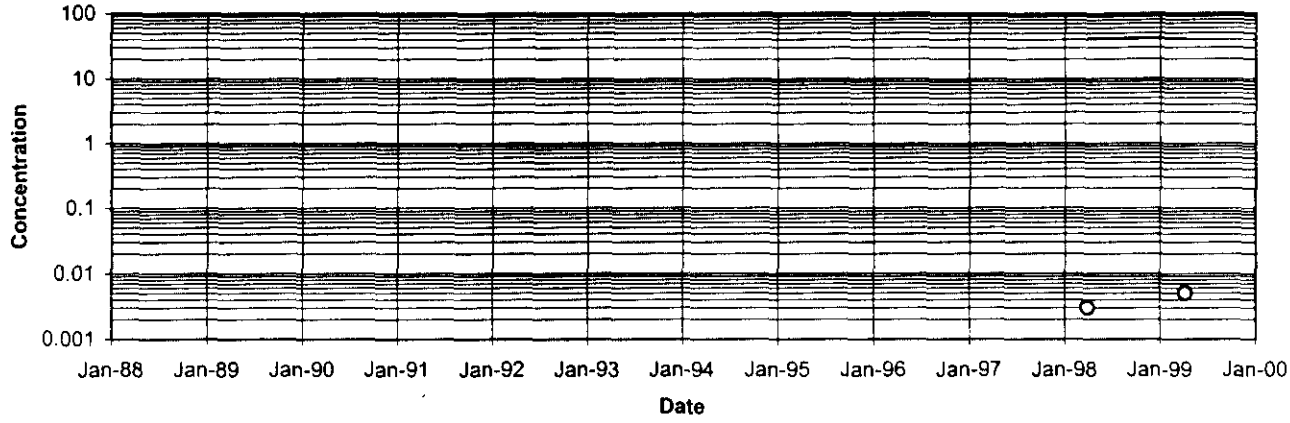
P4R



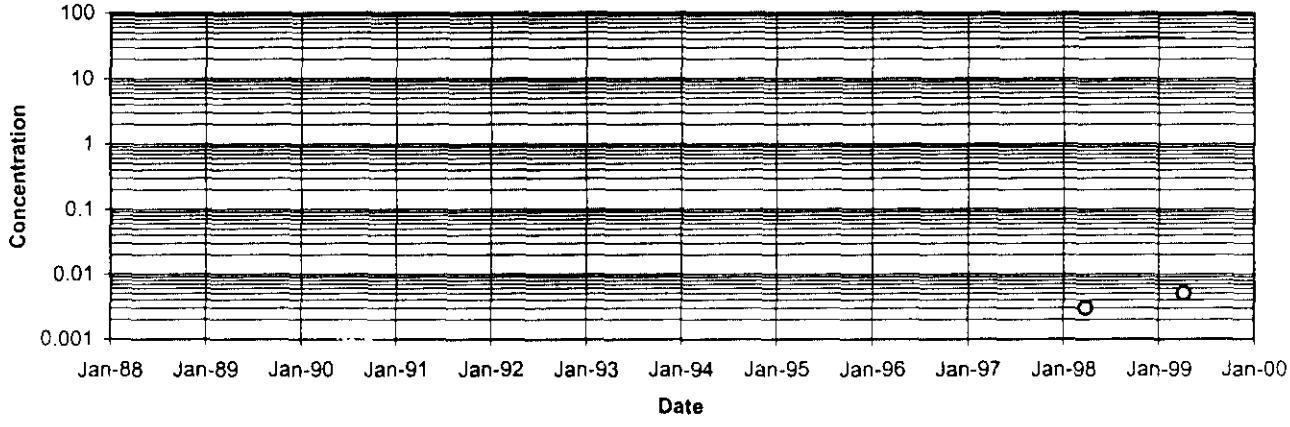
Lead (mg/L)

AGQS Δ Concentration ○ NonDetect

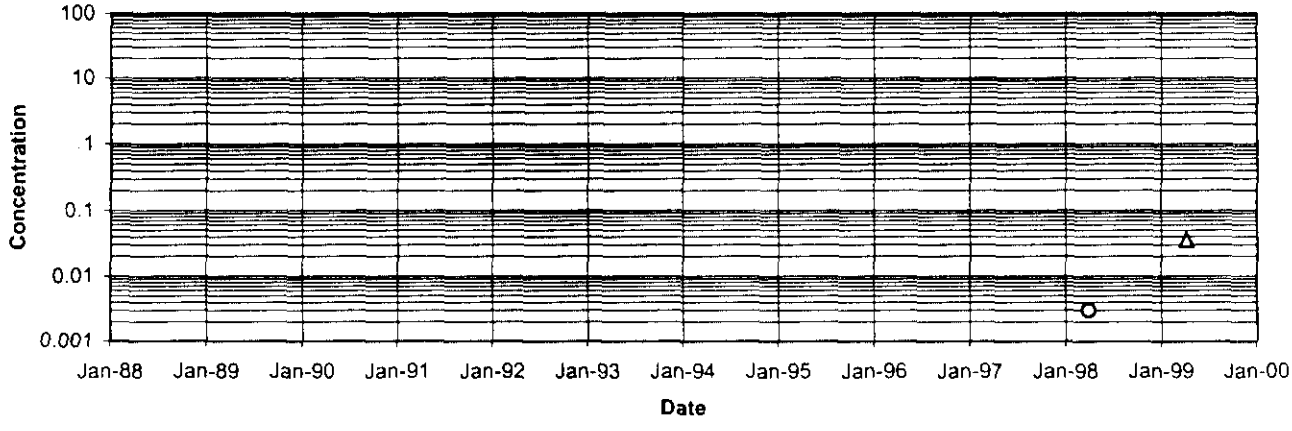
SG1



SG3



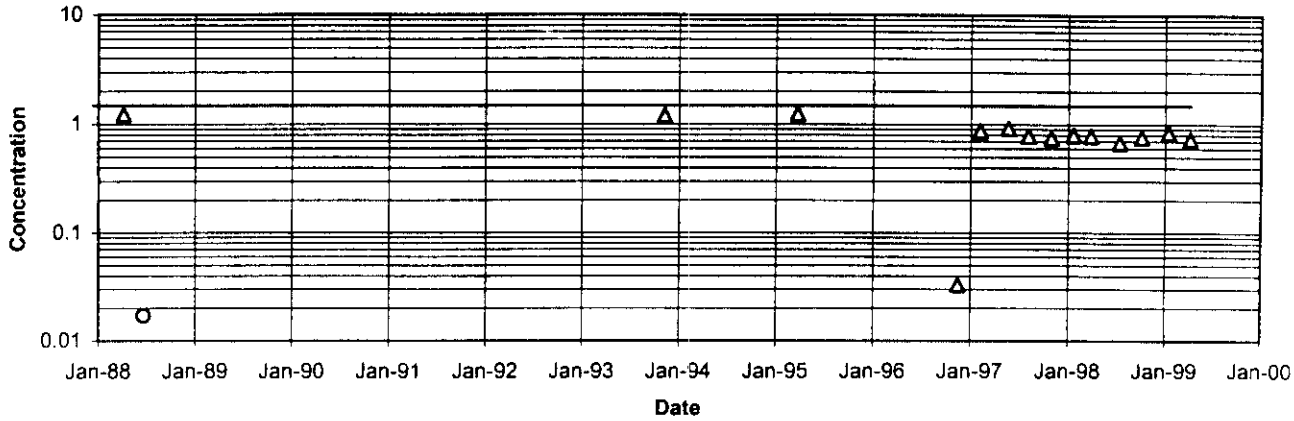
SG4



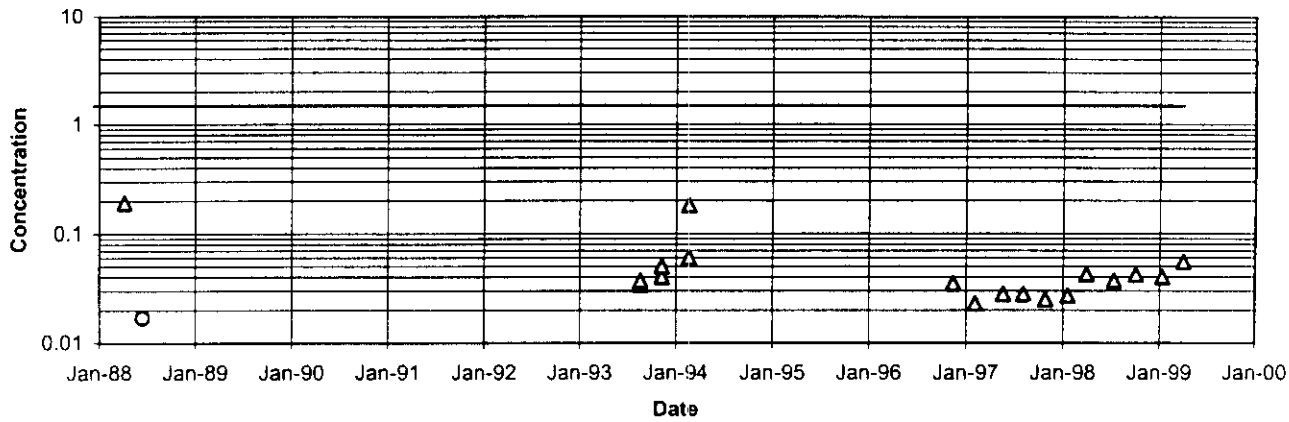
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

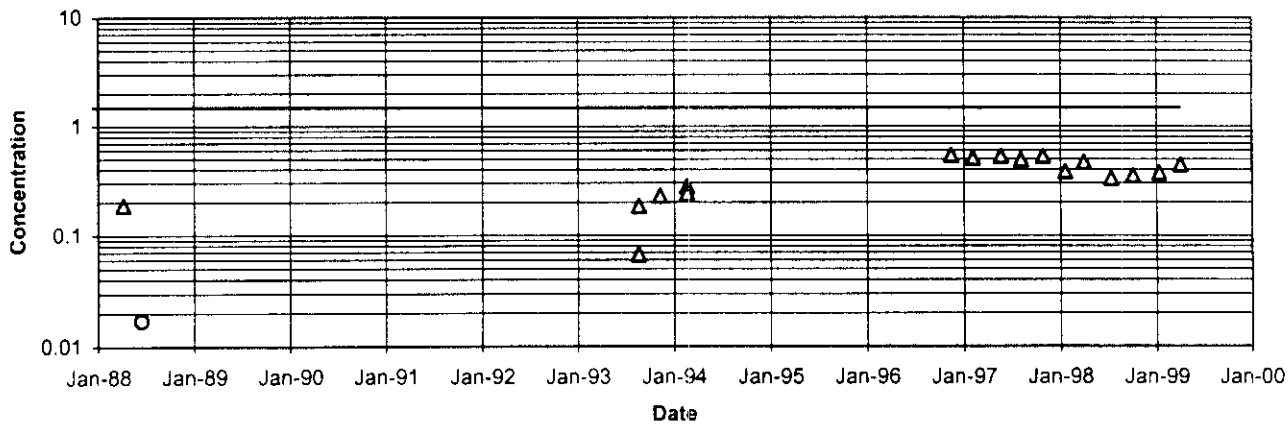
B15R



G109



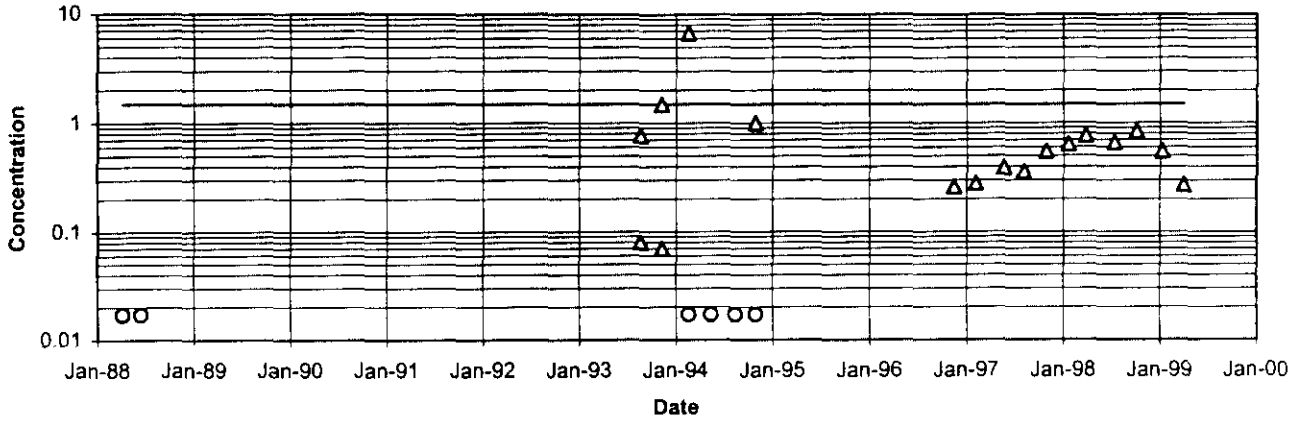
G109A



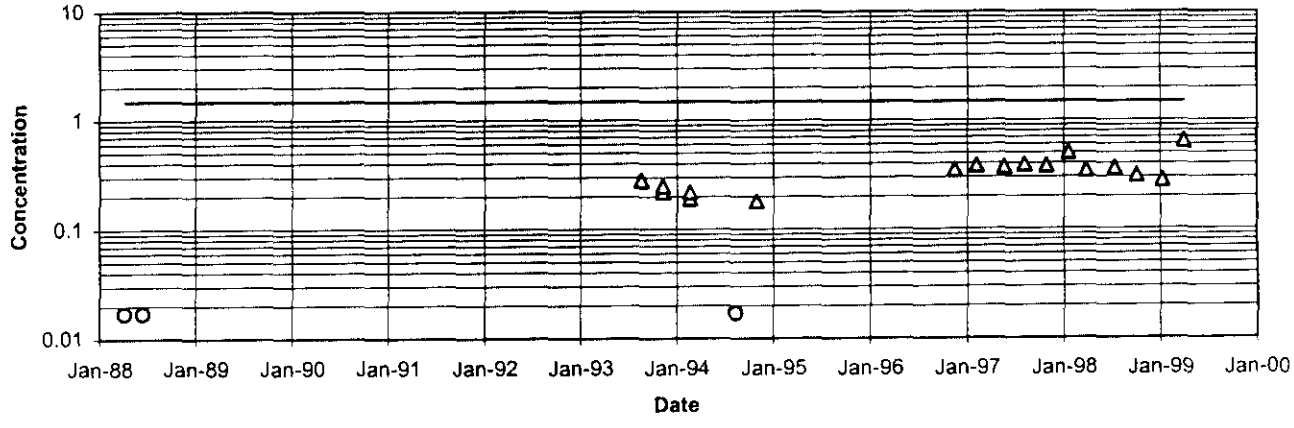
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

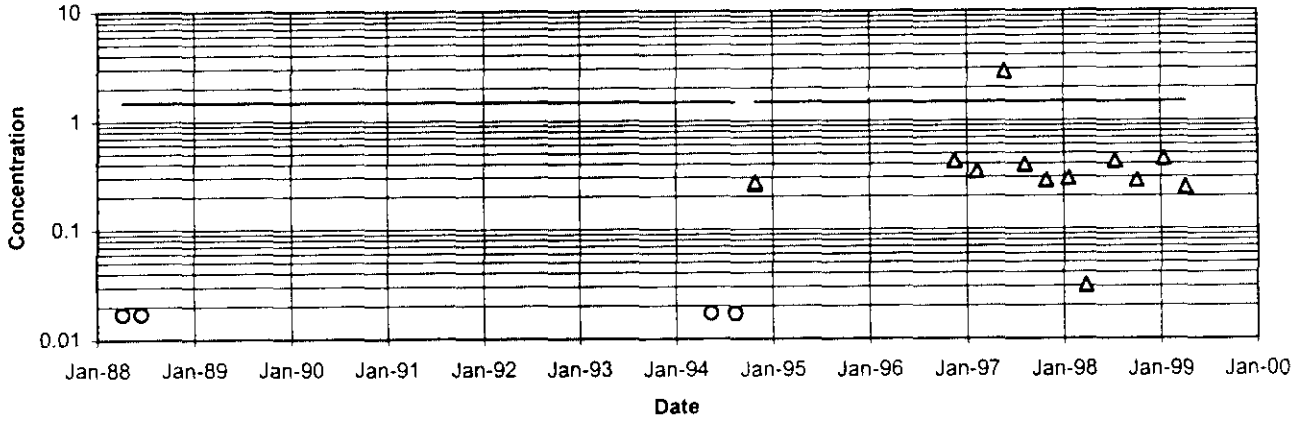
G113



G113A



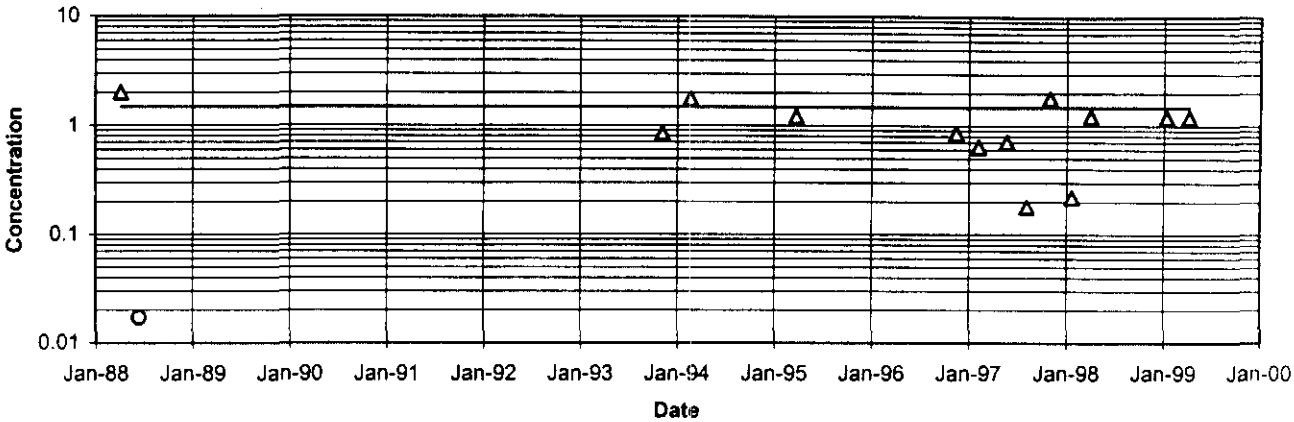
G114



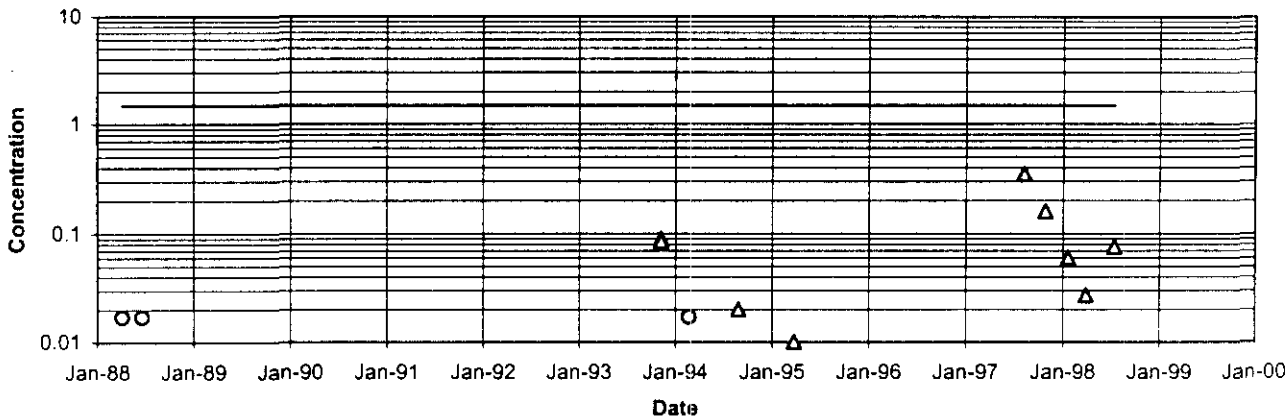
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

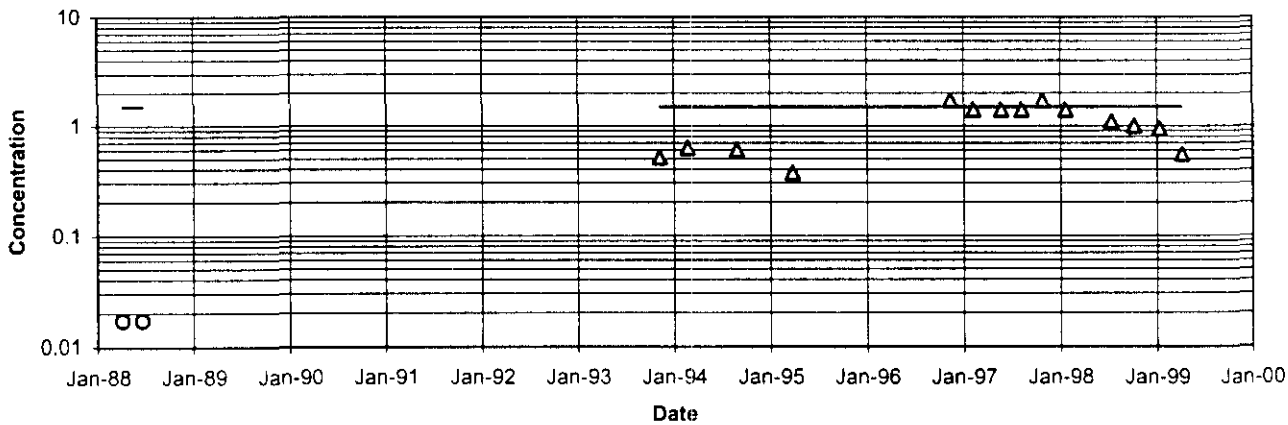
G115



G116



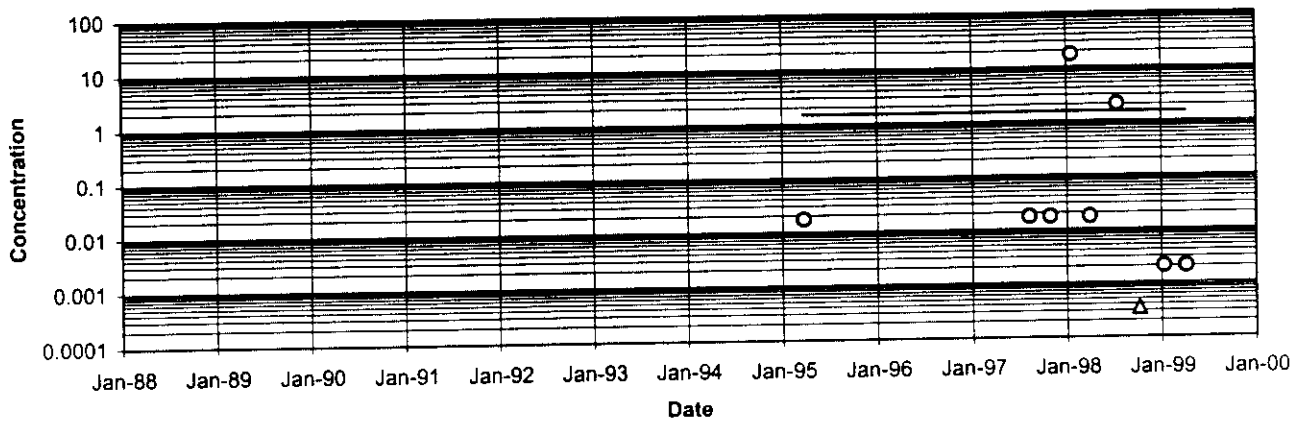
G116A



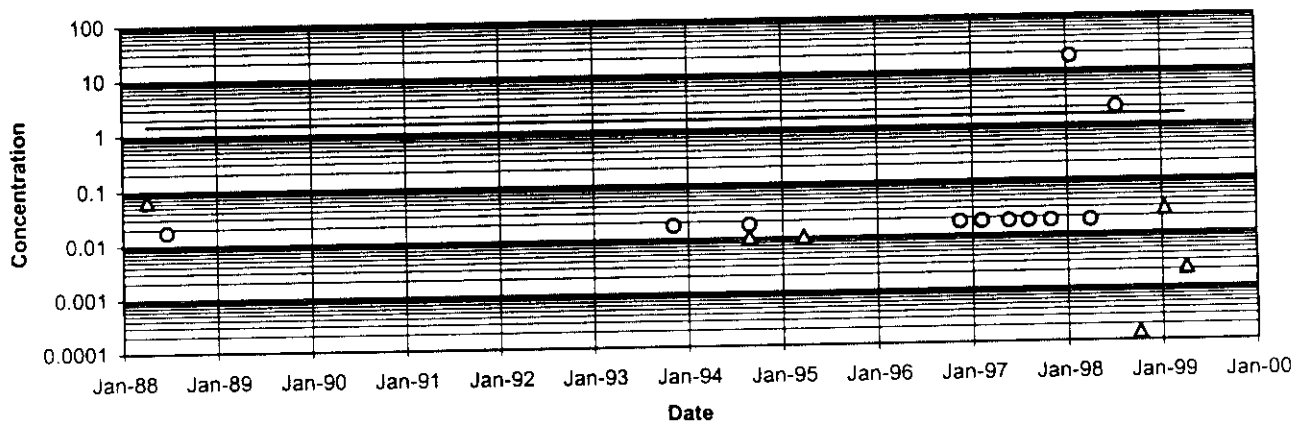
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

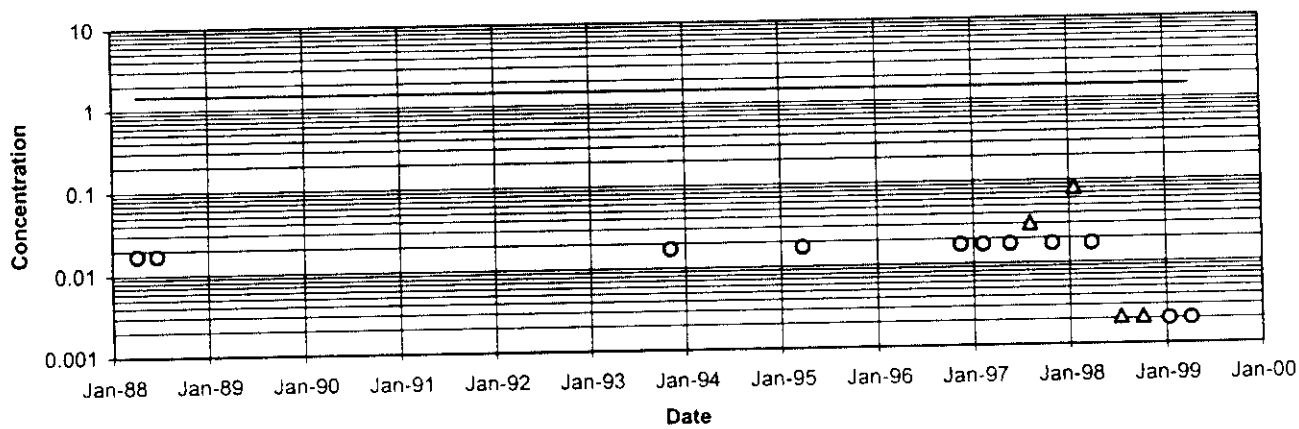
G116D



G117



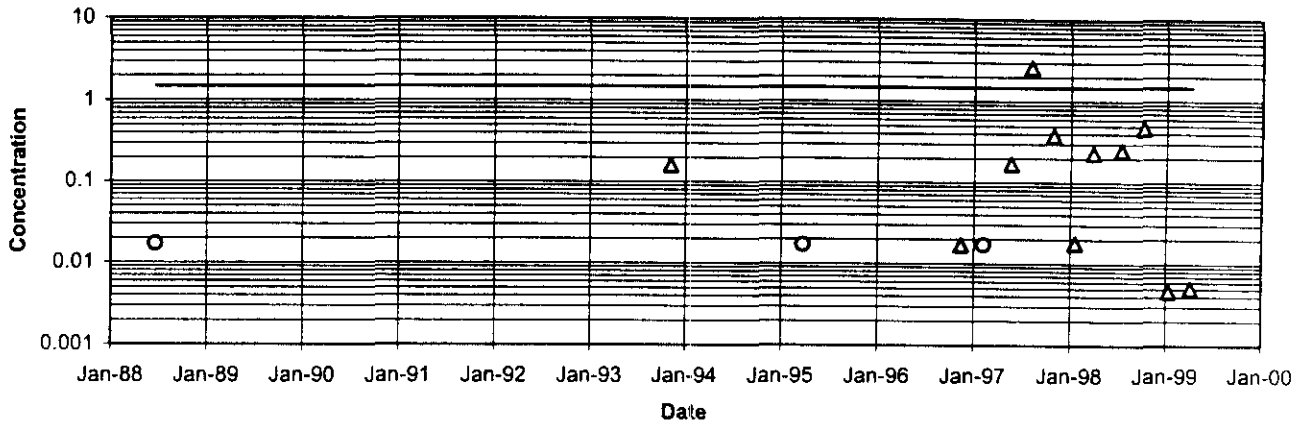
G118A



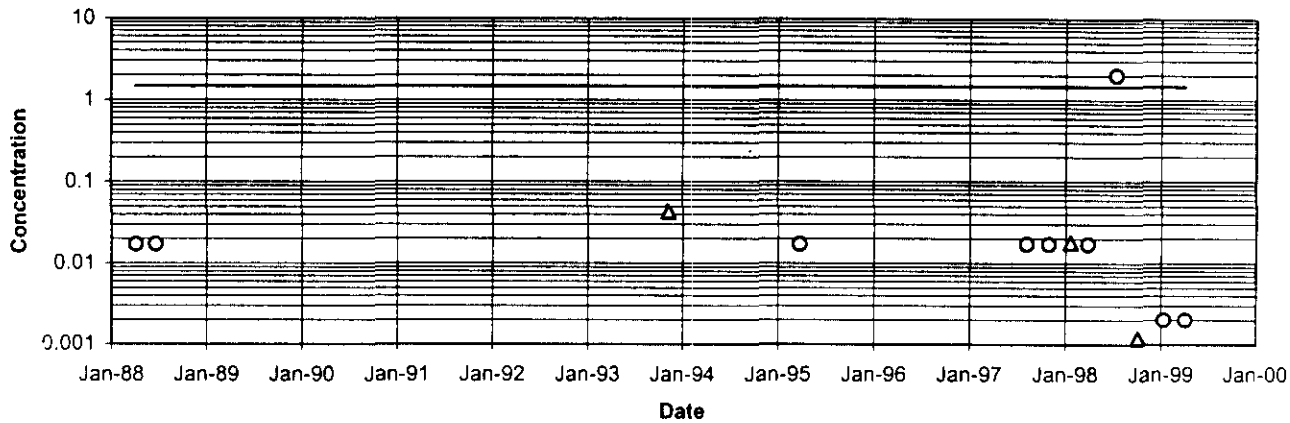
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

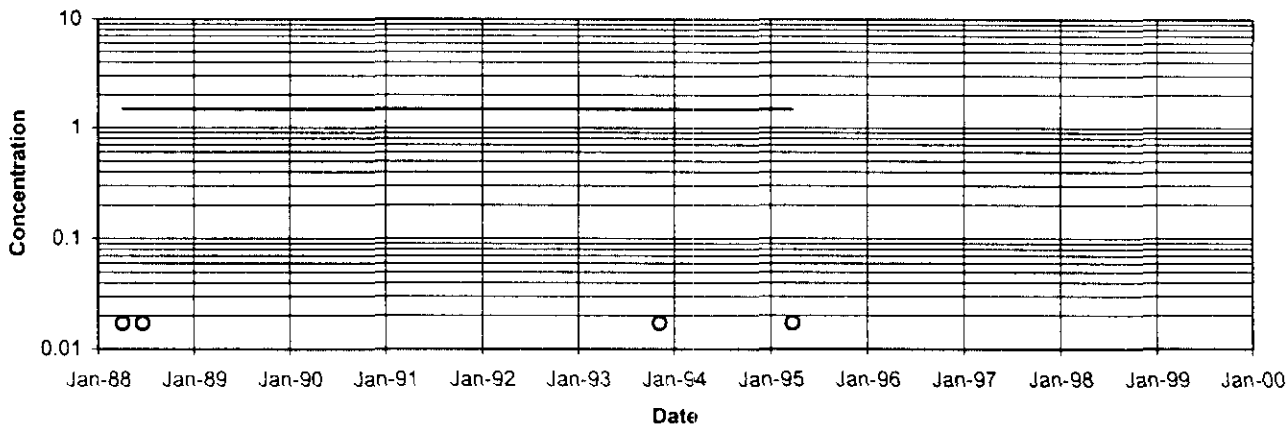
G118R



G119



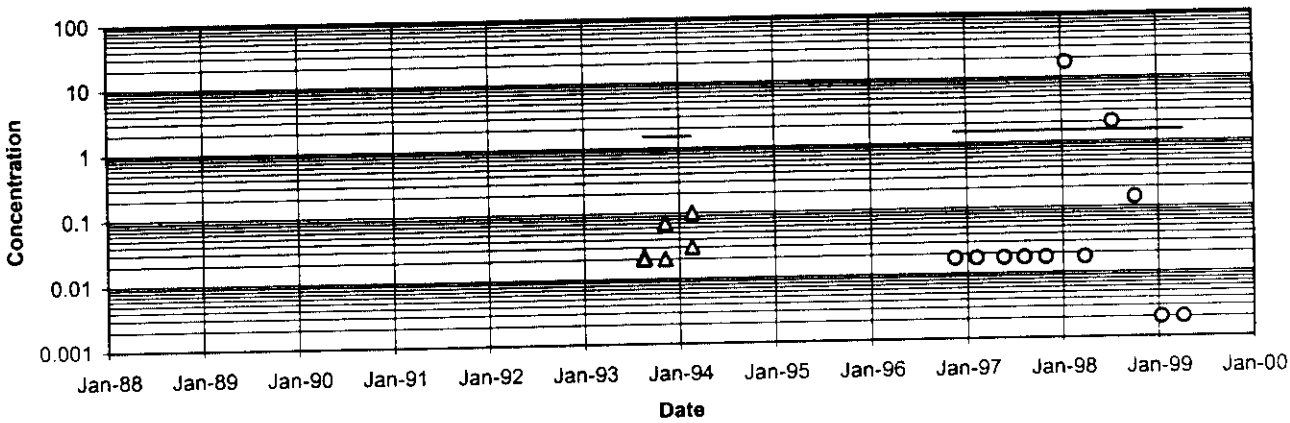
G119A



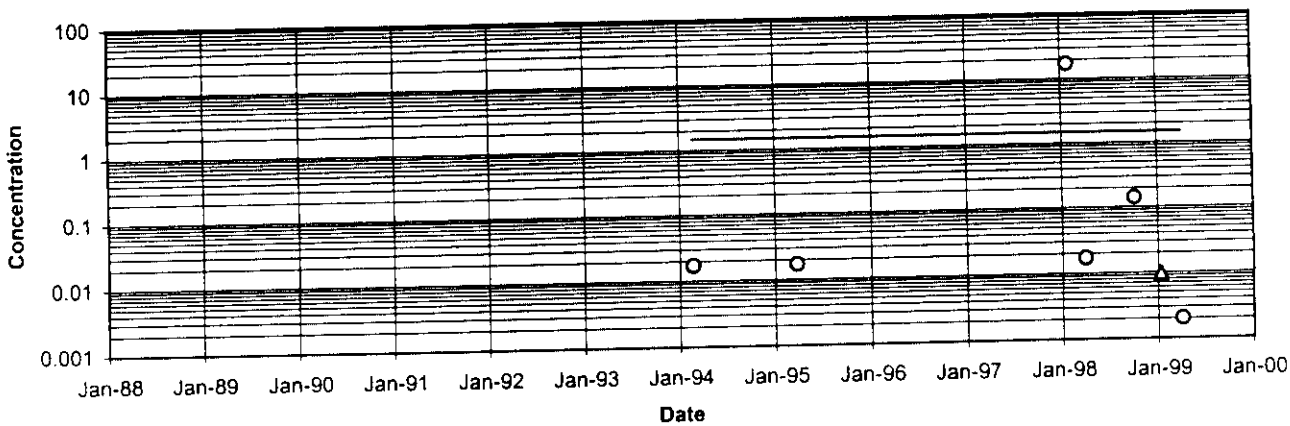
Manganese (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

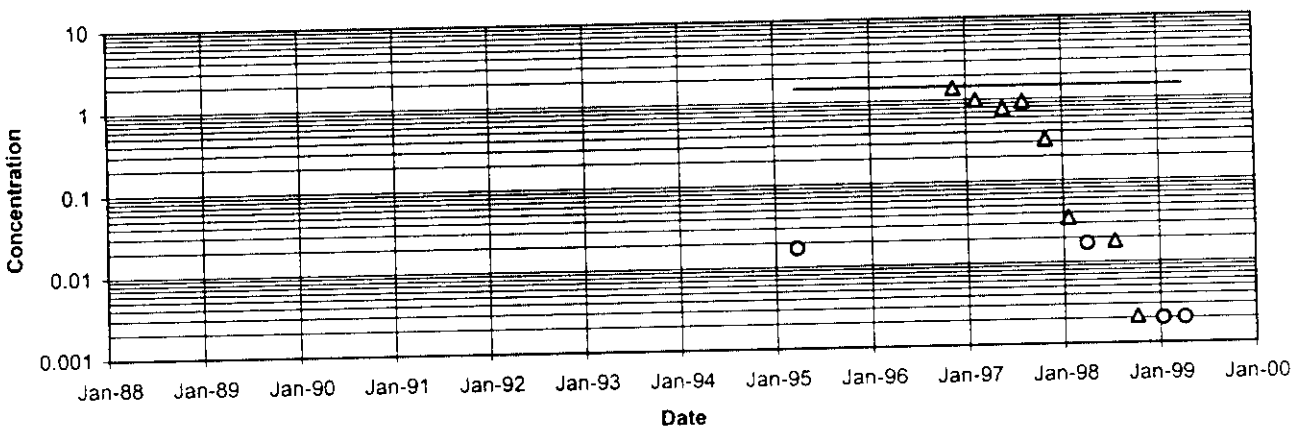
G120B



G130



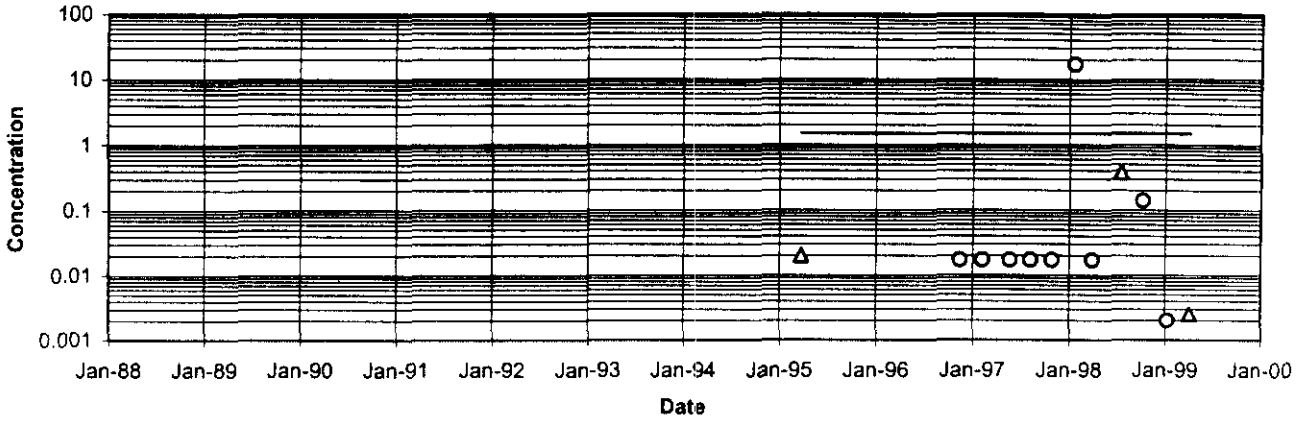
G132



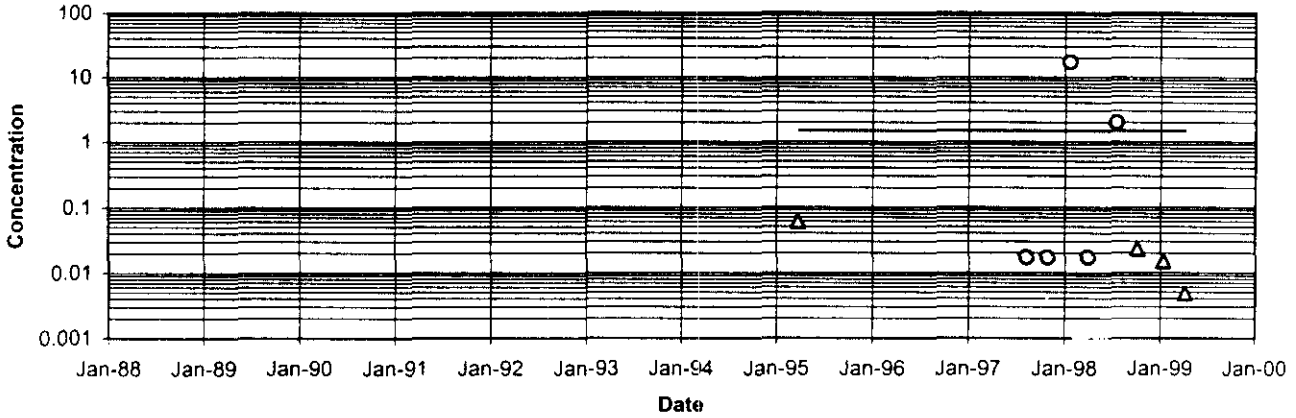
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

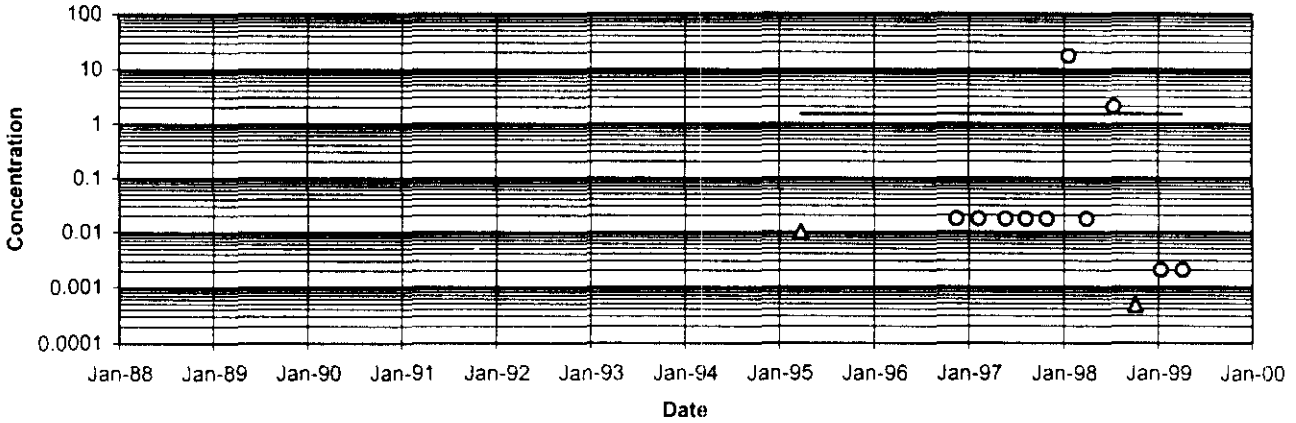
G33D



G33S



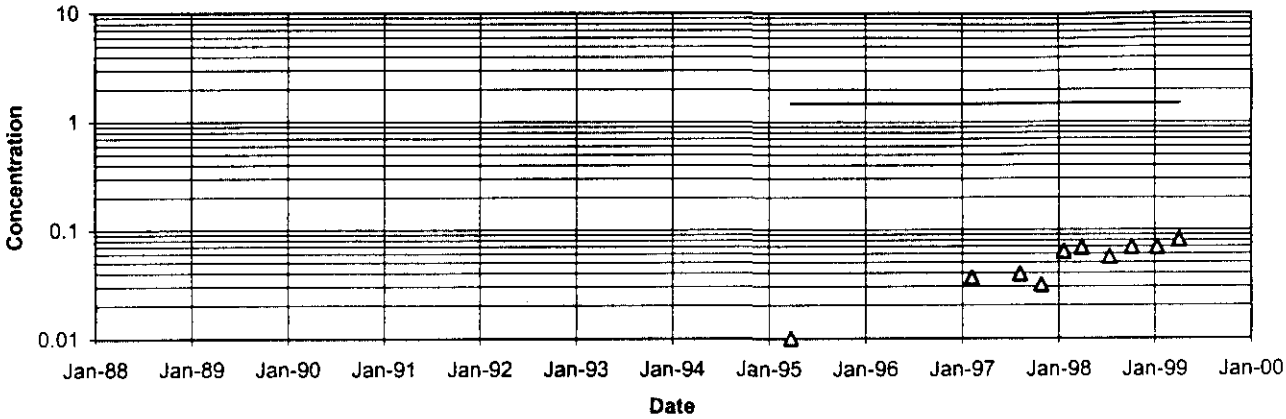
G34D



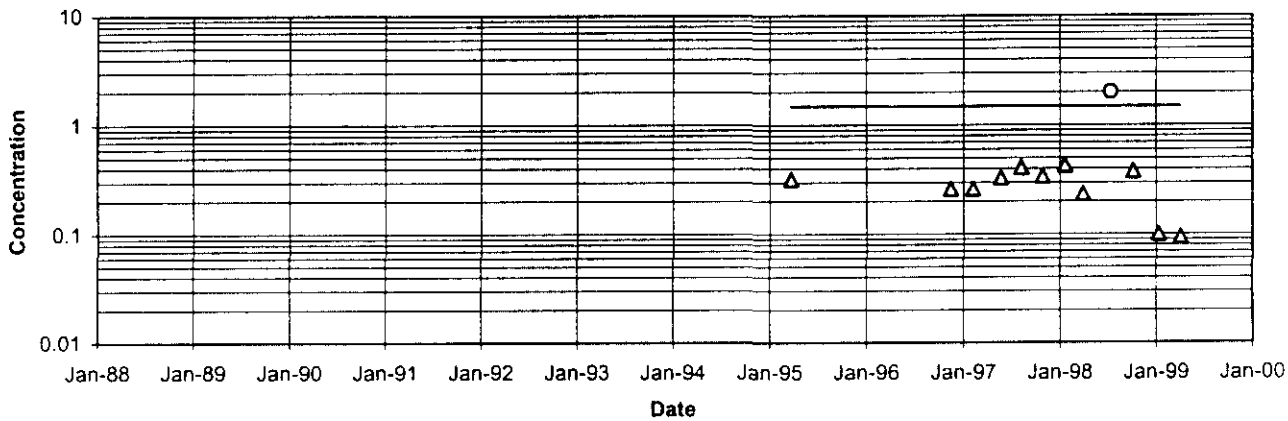
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

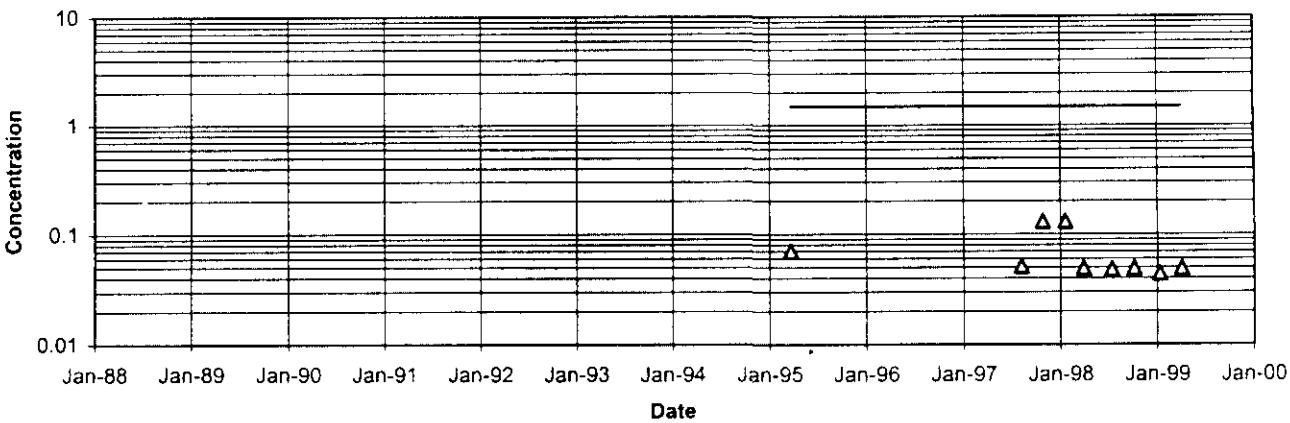
G34S



G35D



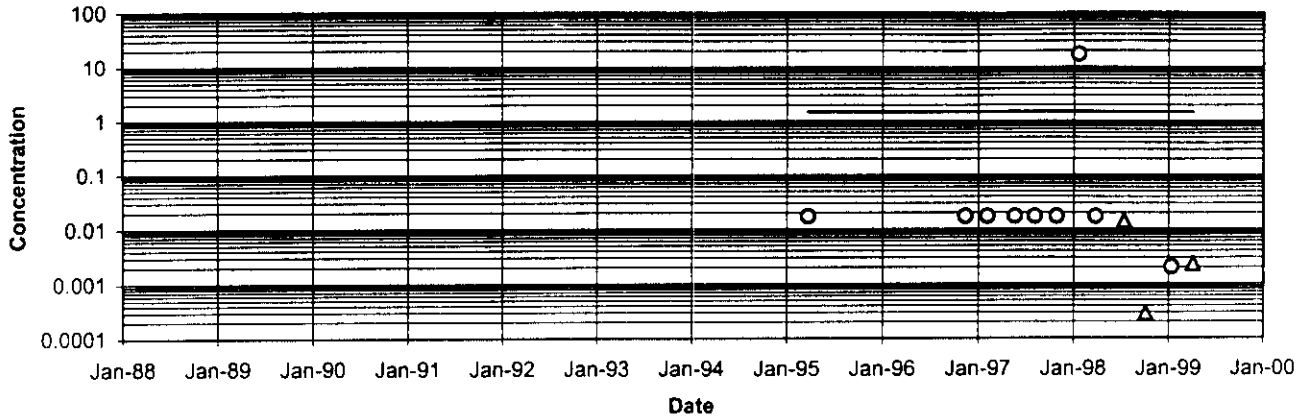
G35S



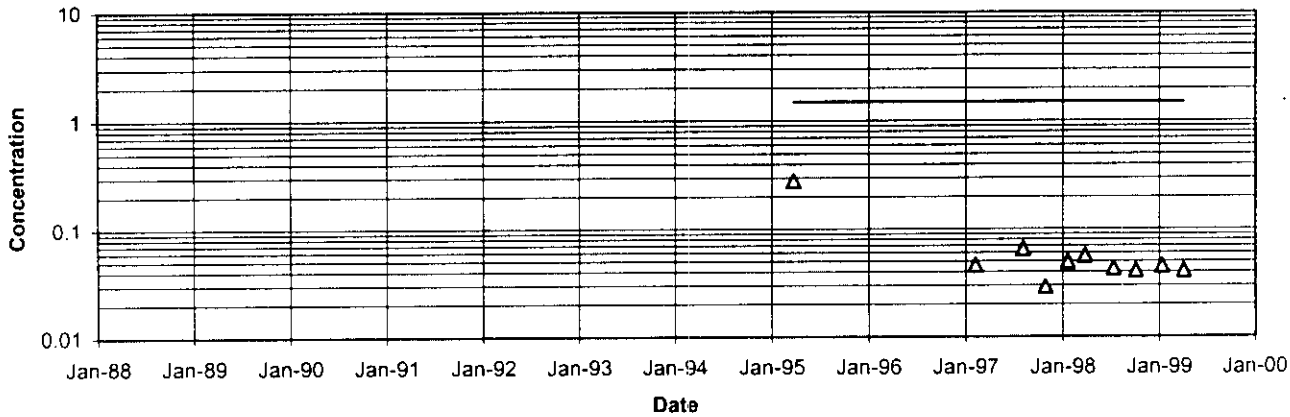
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

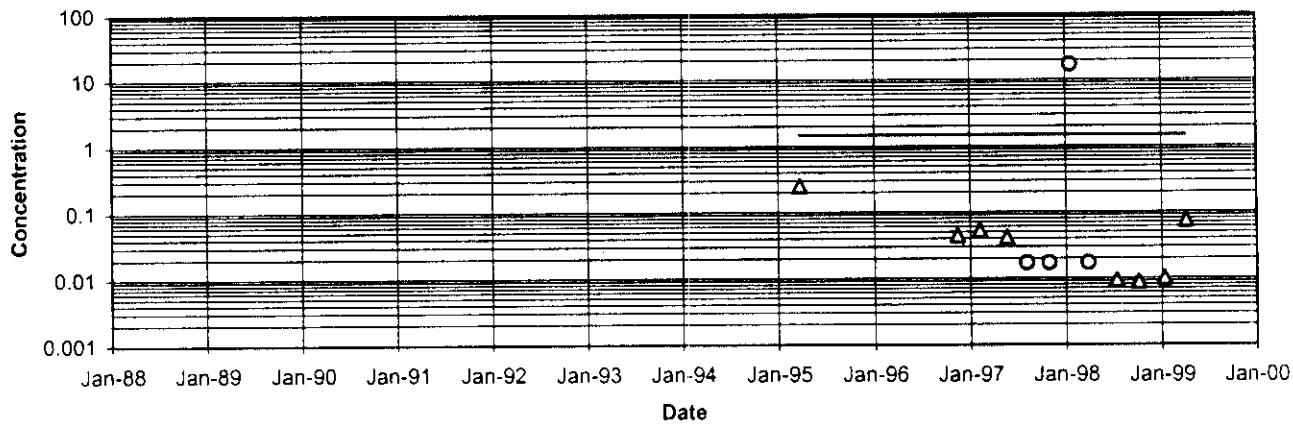
G36



G37D



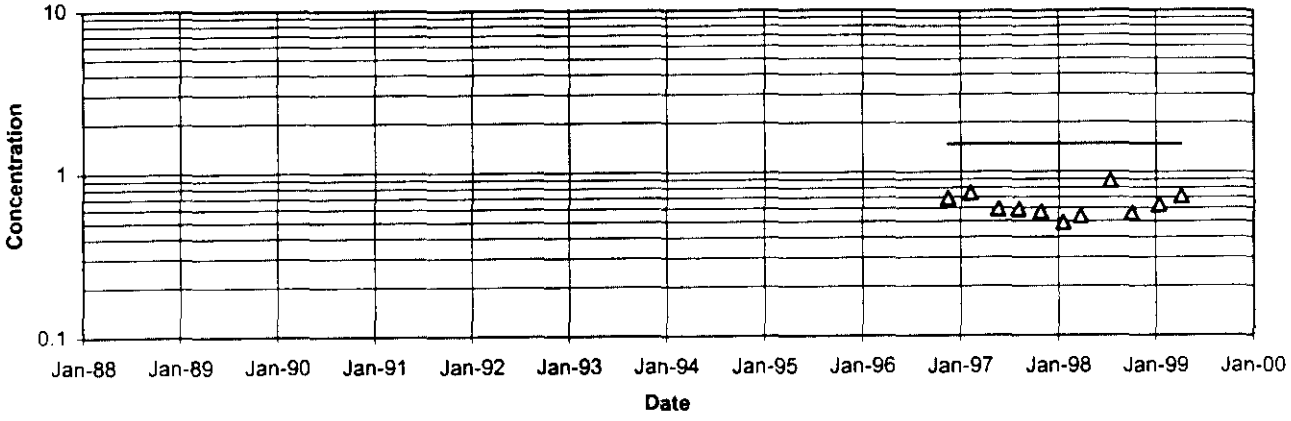
G37S



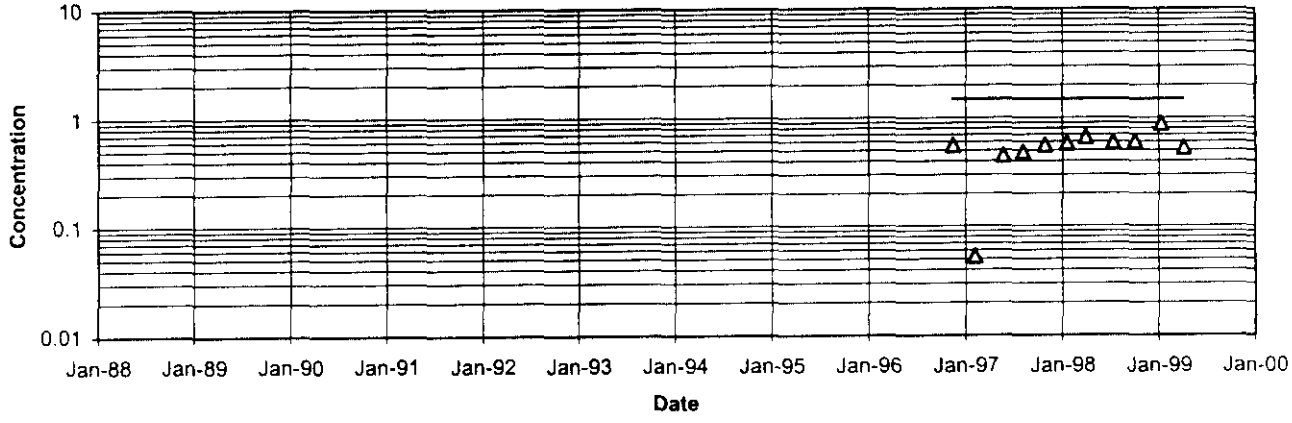
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

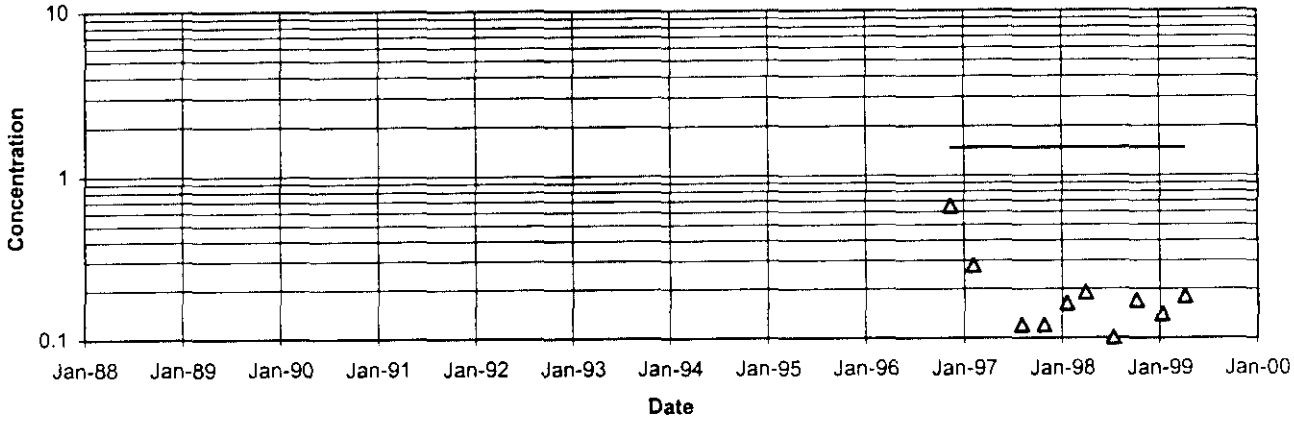
G38



G39



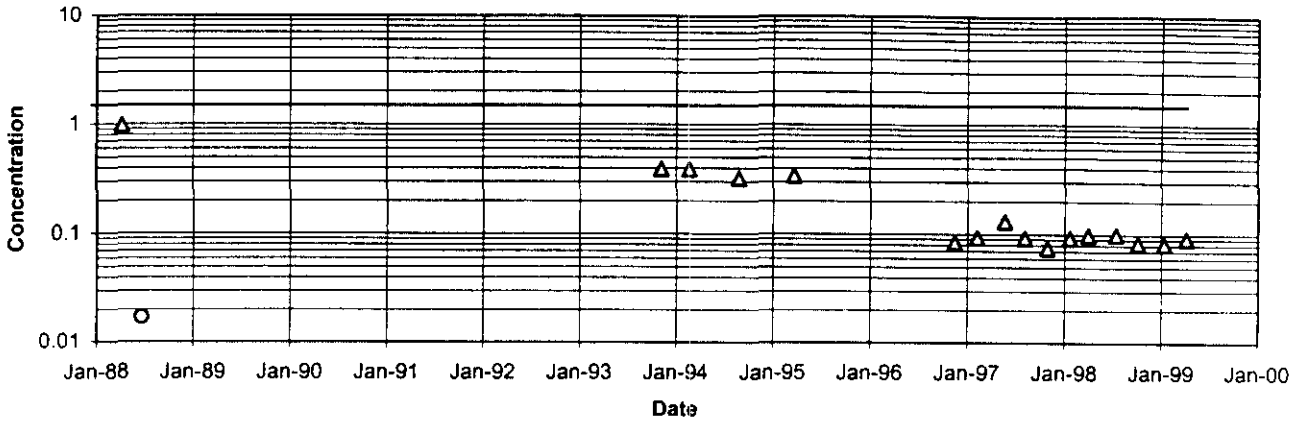
G40



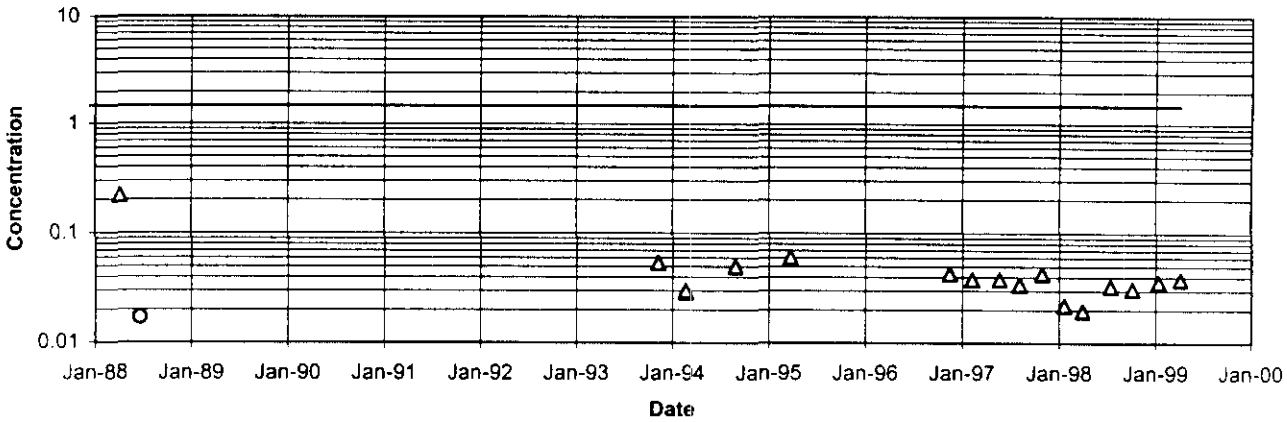
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

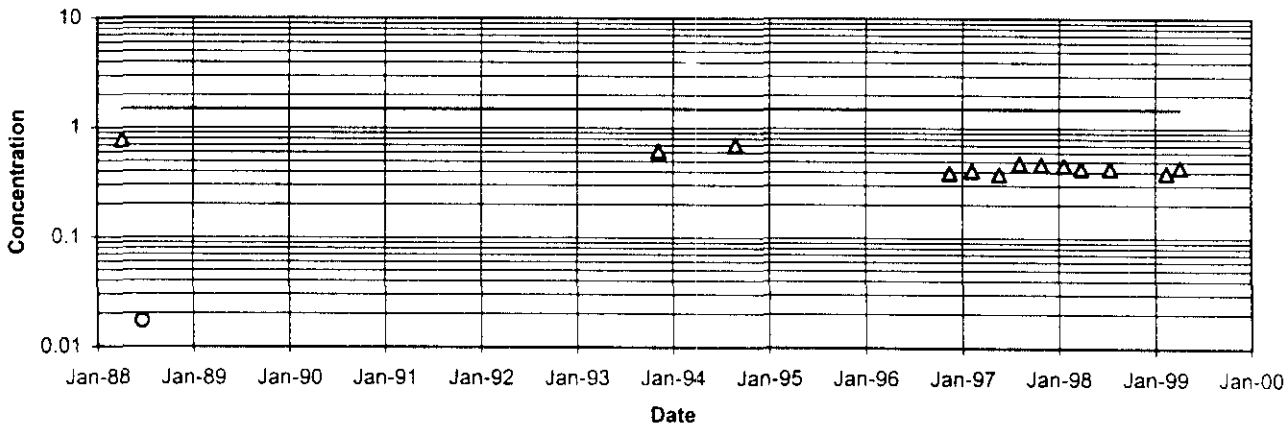
MW106



P1



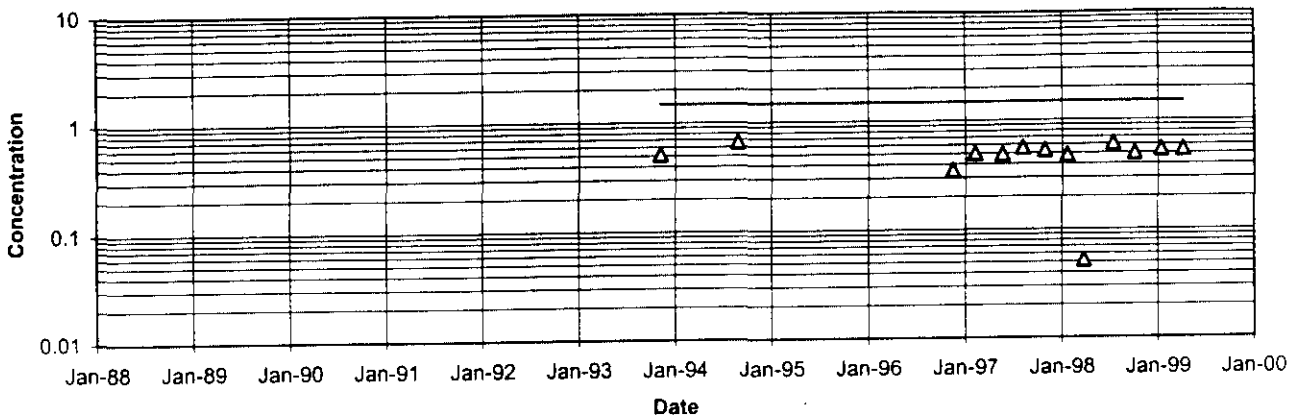
P3R



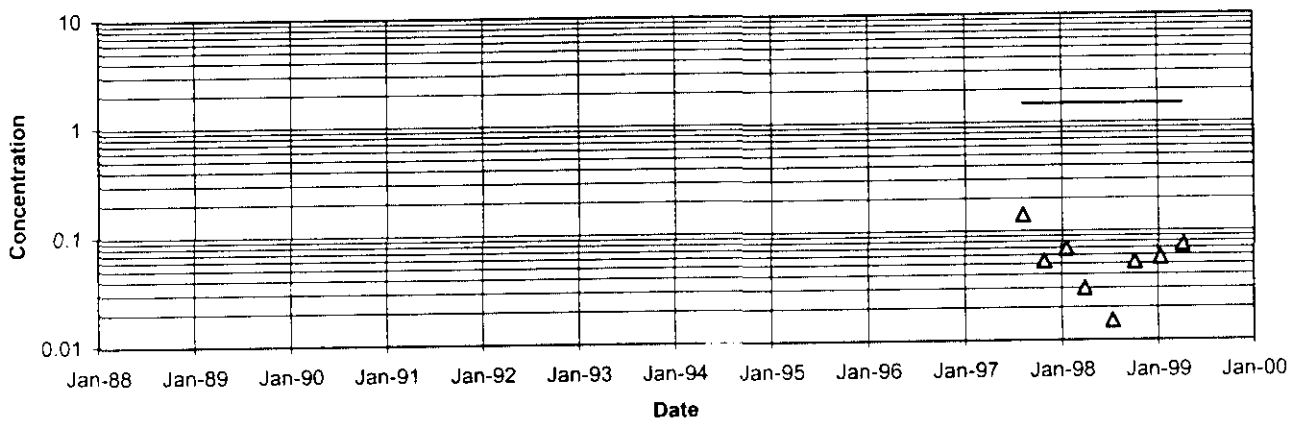
Manganese (dis) (mg/L)

AGQS Δ Concentration O NonDetect

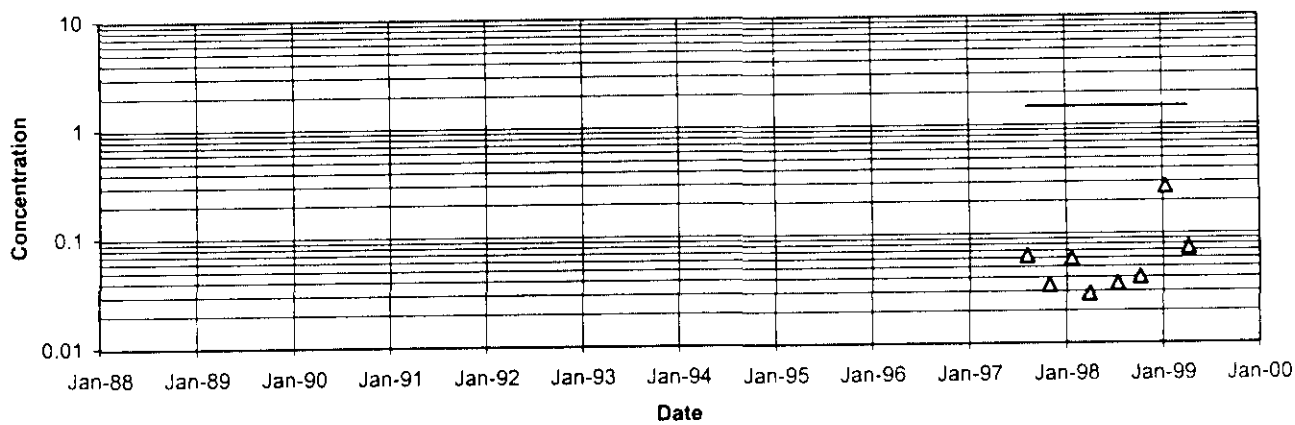
P4R



SG1



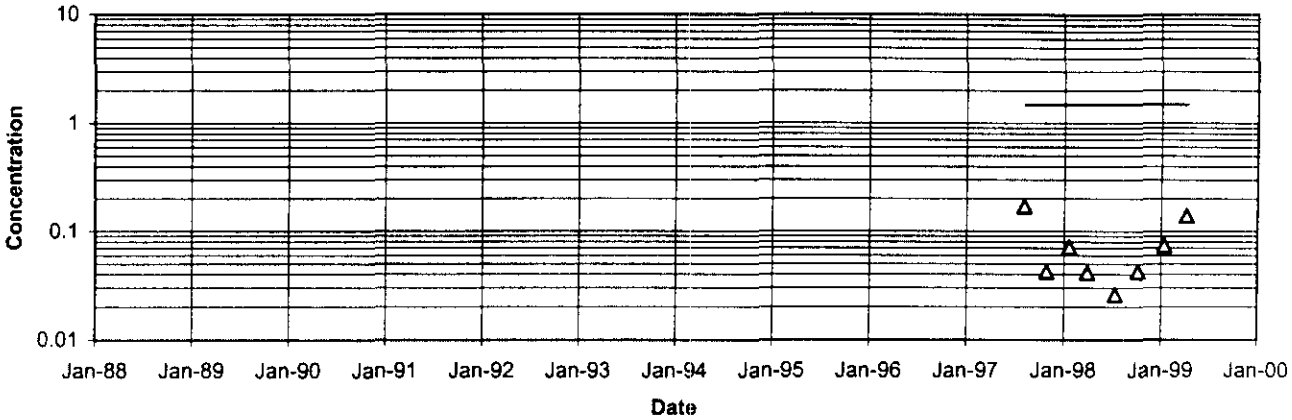
SG3



Manganese (dis) (mg/L)

AGQS Δ Concentration ○ NonDetect

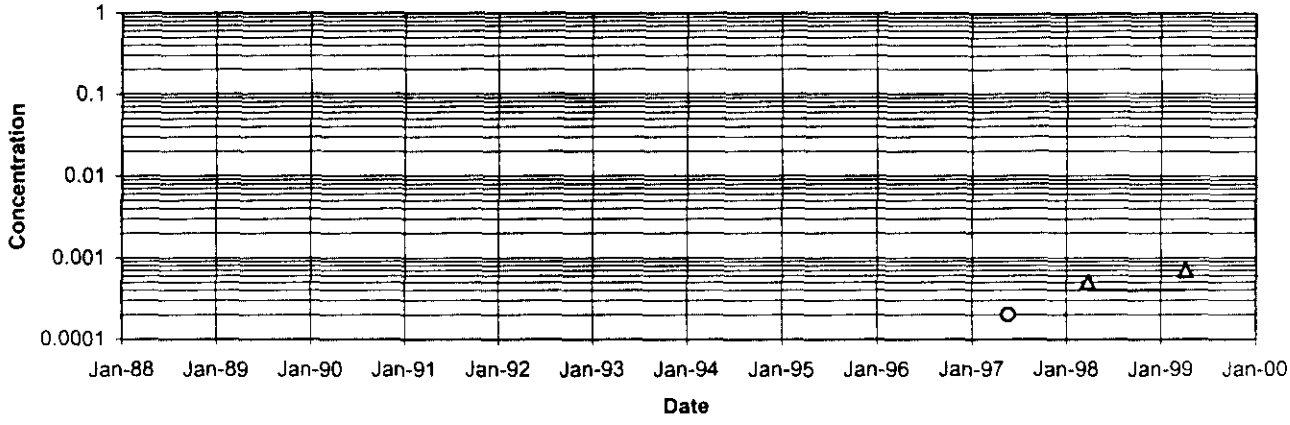
SG4



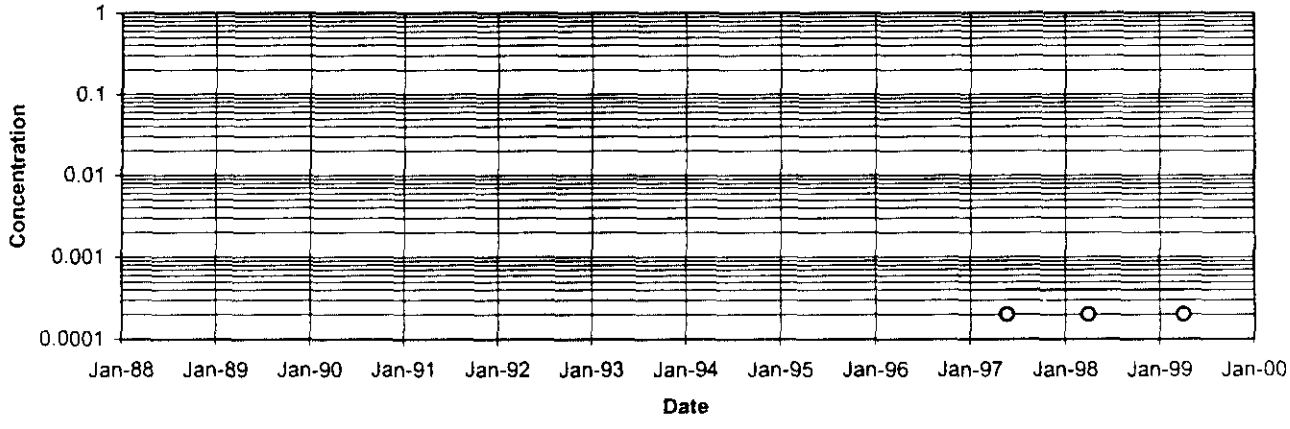
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

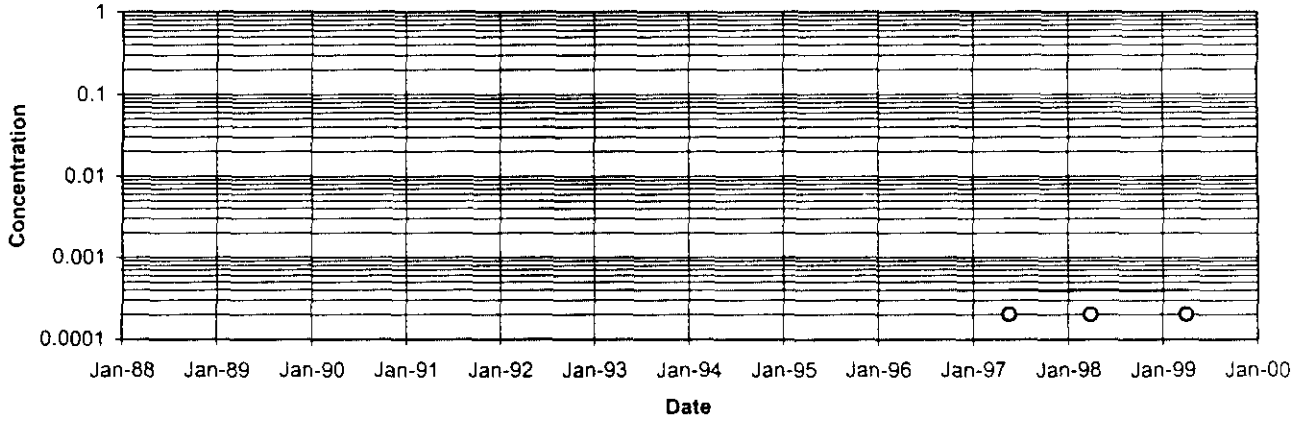
B15R



G109



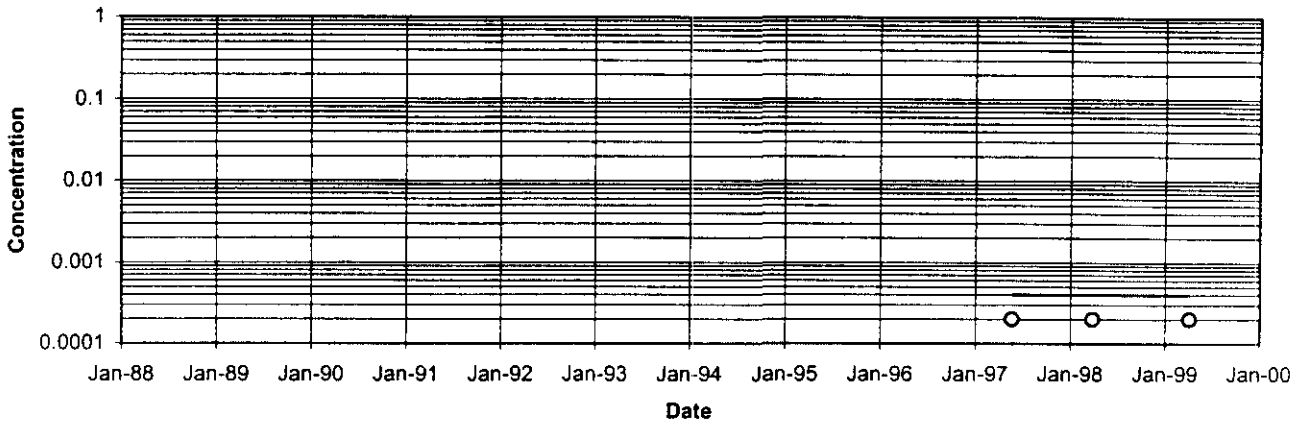
G109A



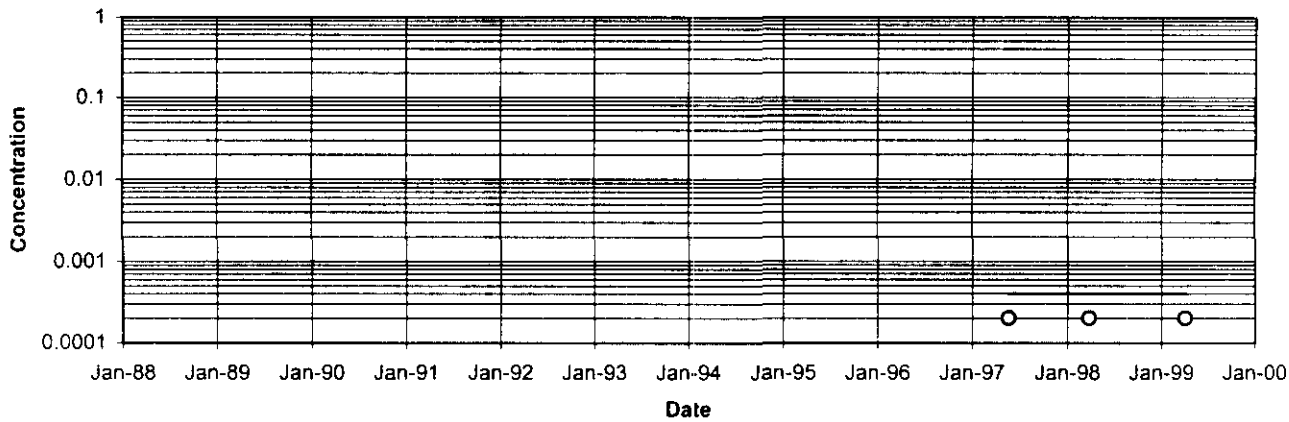
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

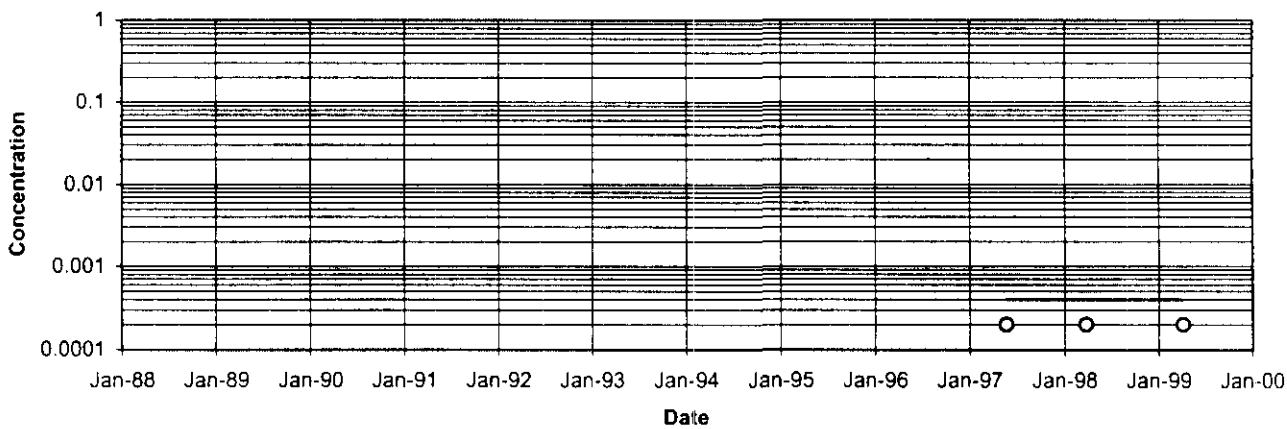
G113



G113A



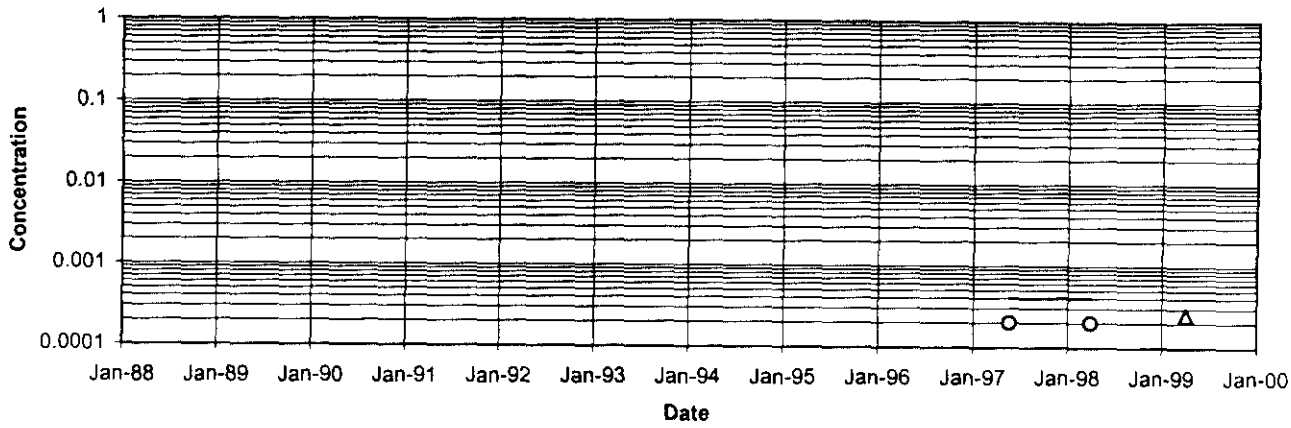
G114



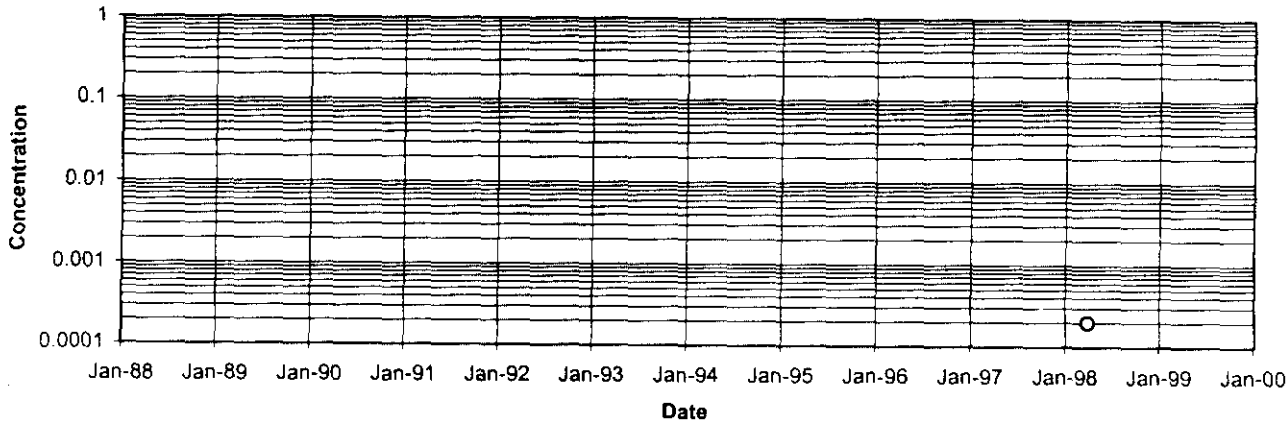
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

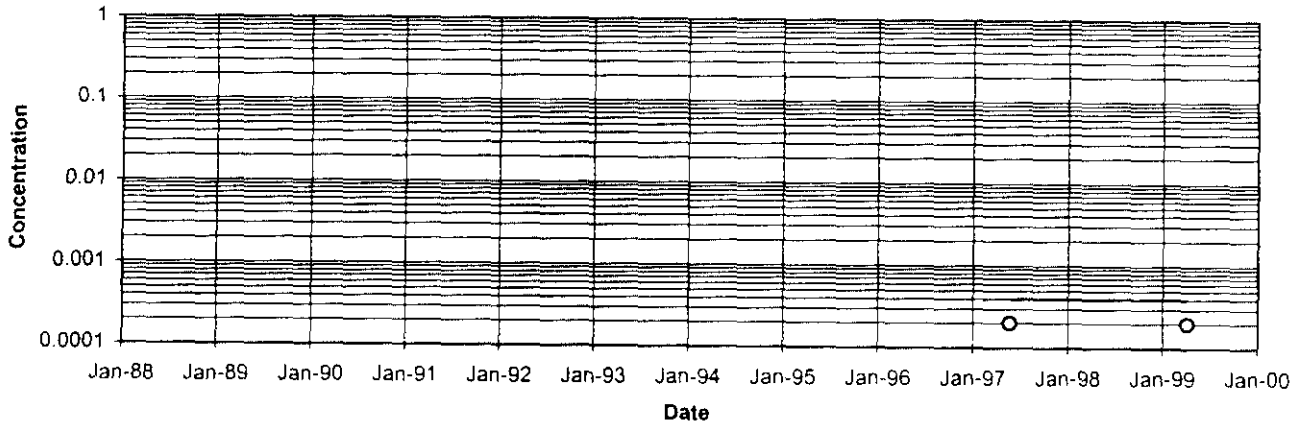
G115



G116



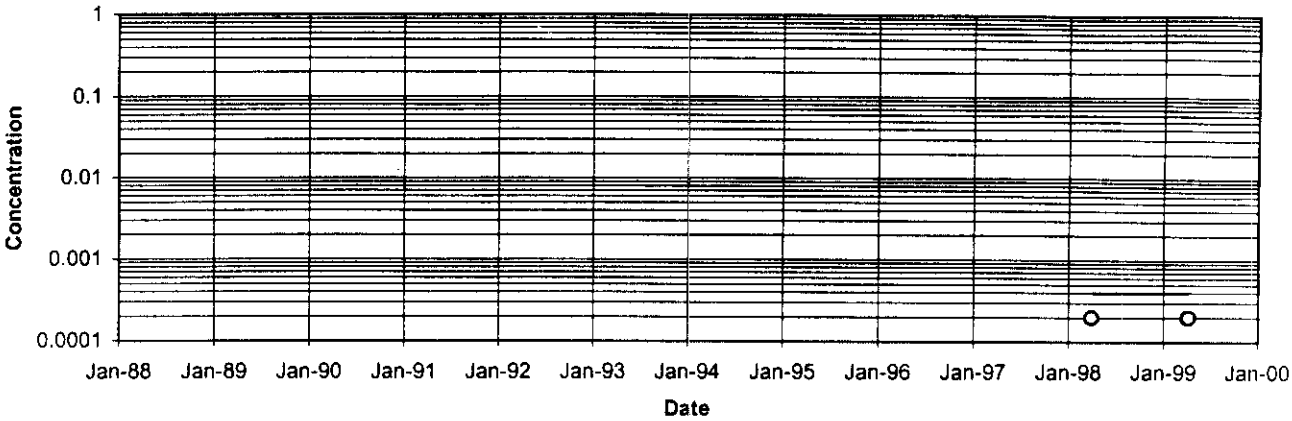
G116A



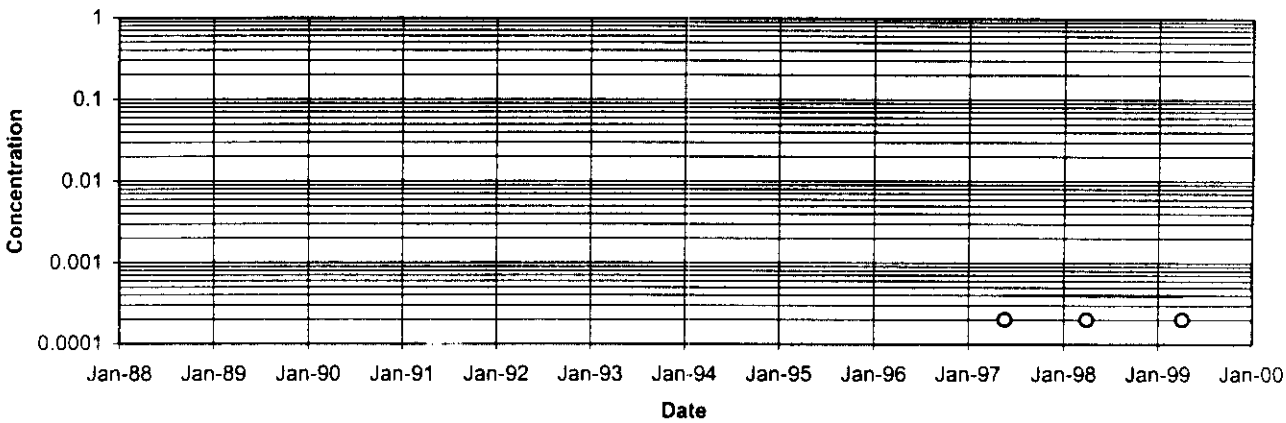
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

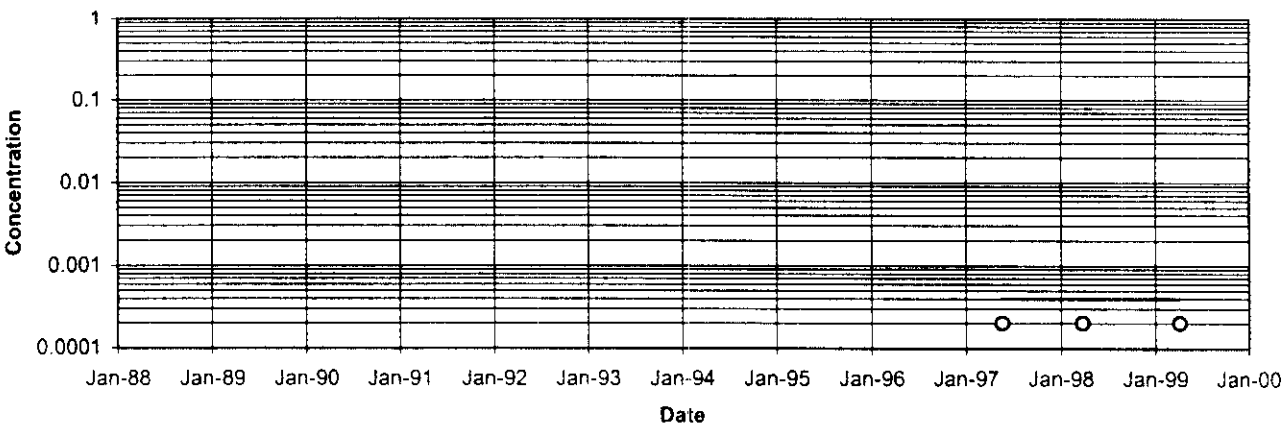
G116D



G117



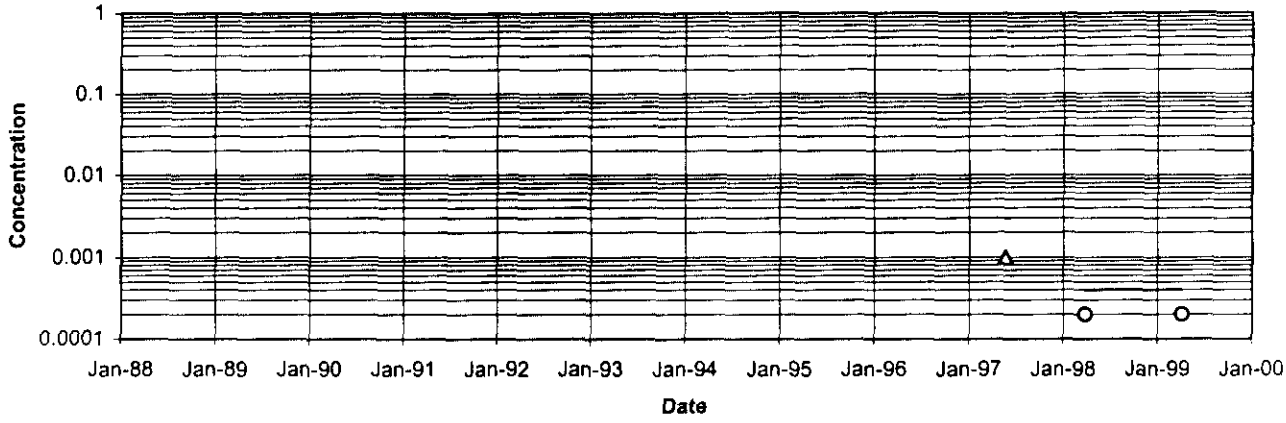
G118A



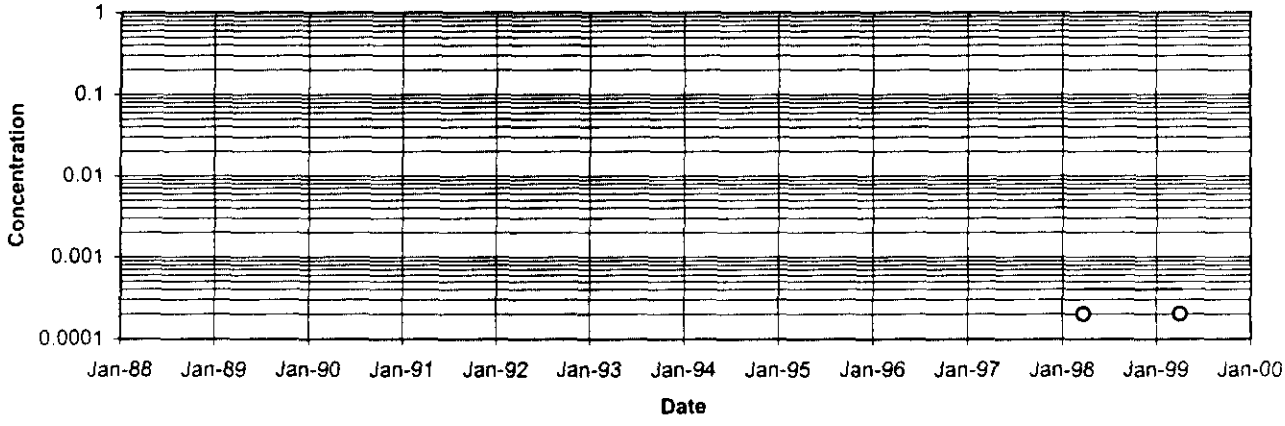
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

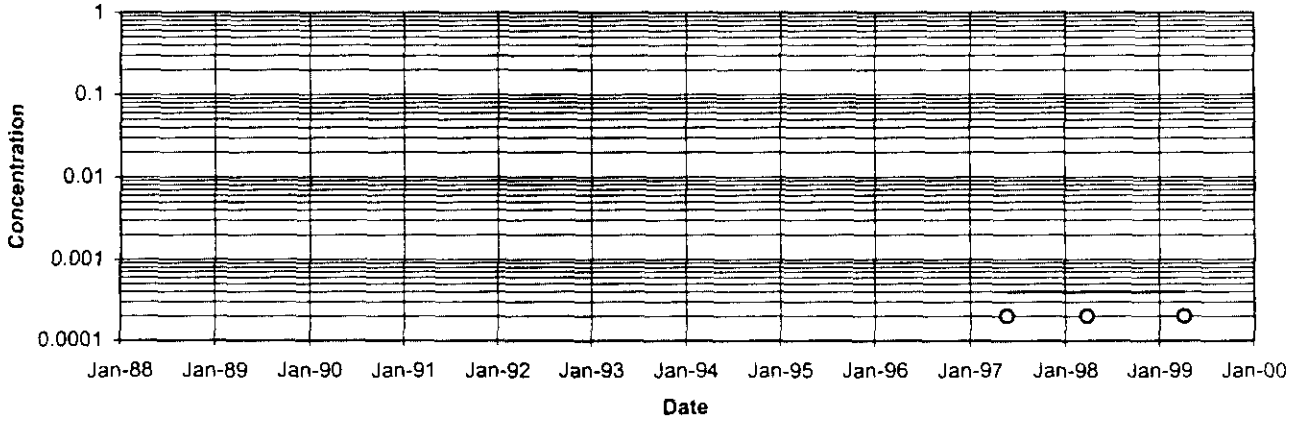
G118R



G119



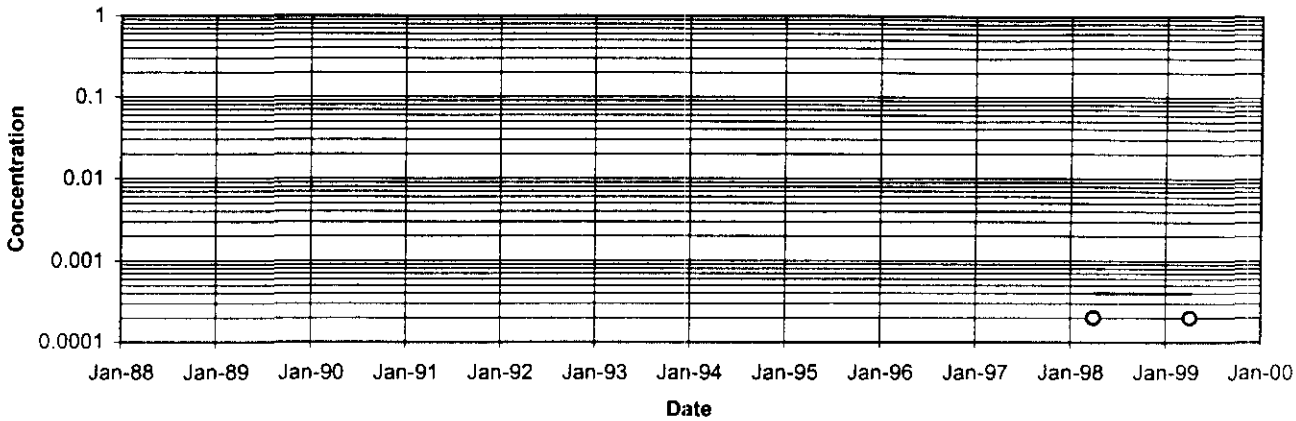
G120B



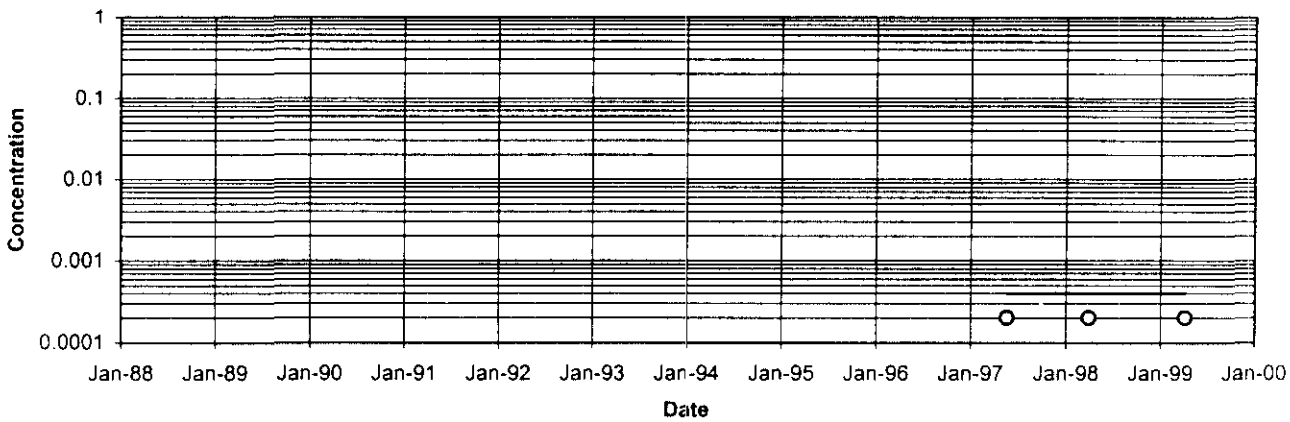
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

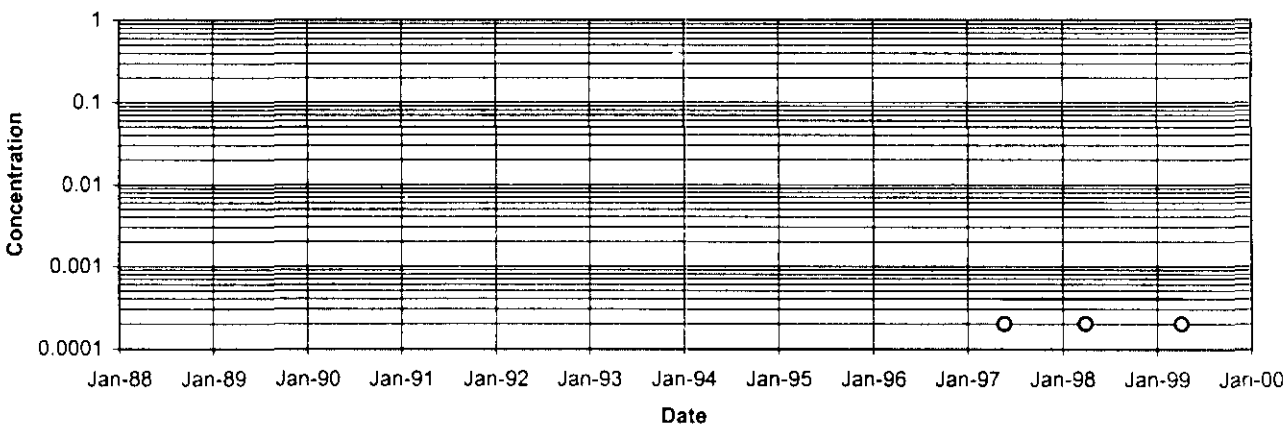
G130



G132



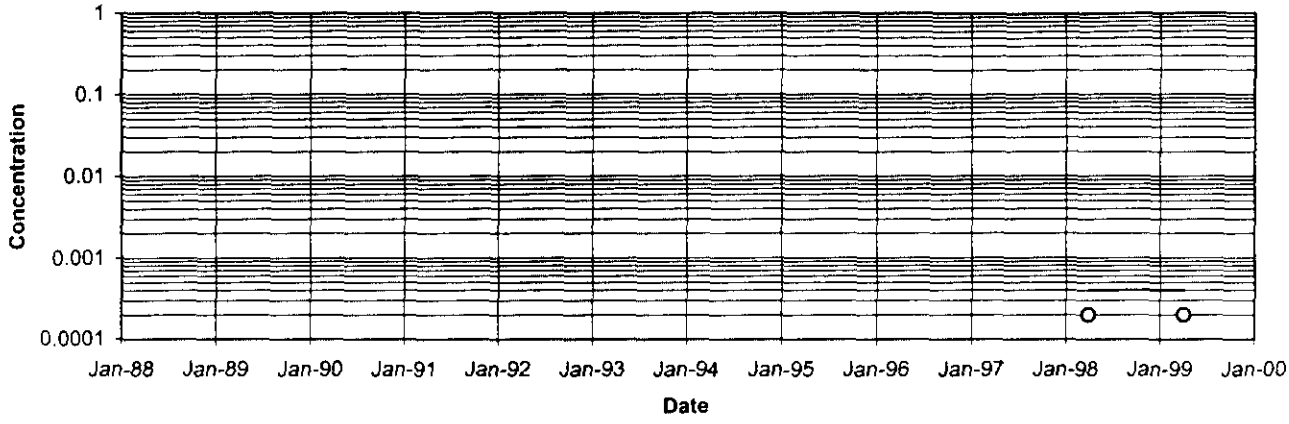
G33D



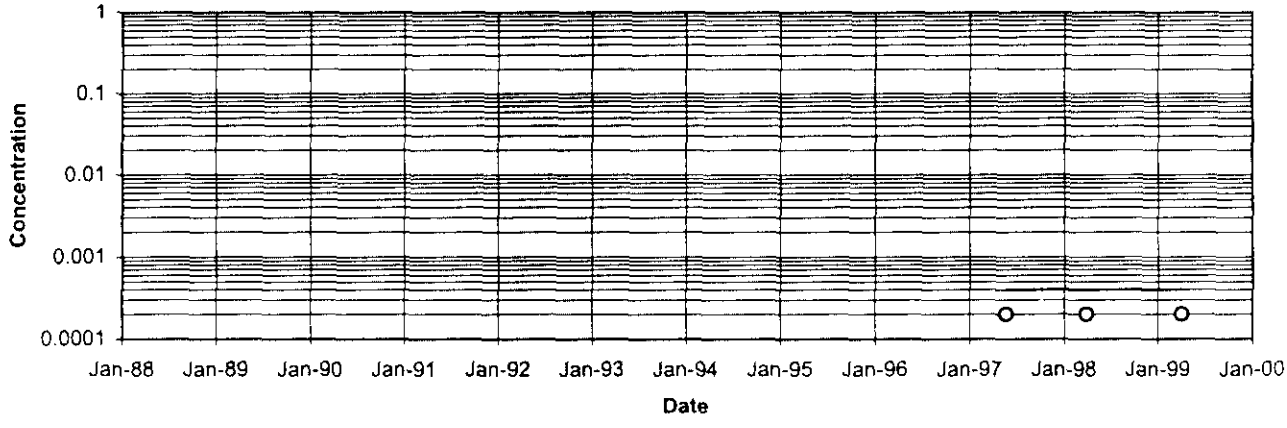
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

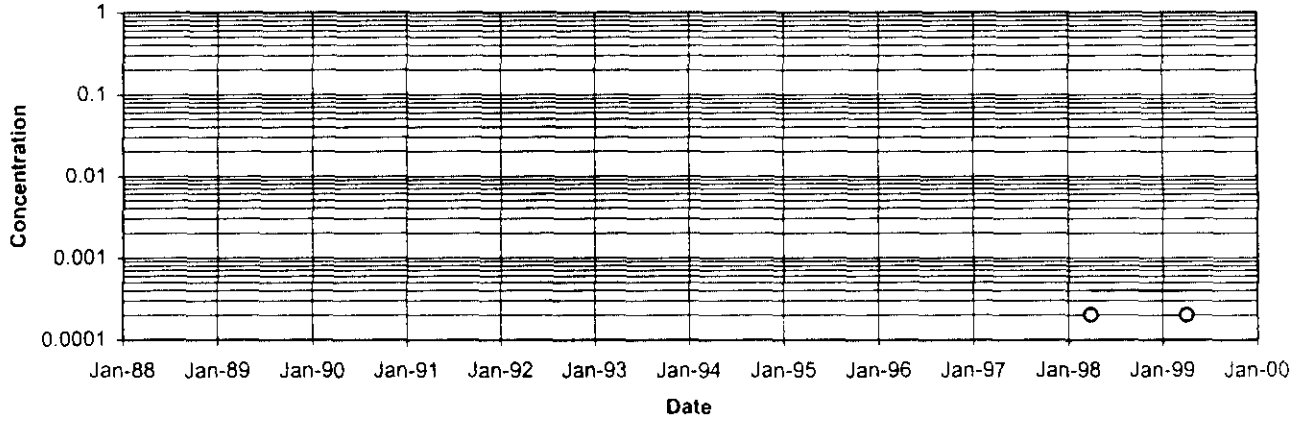
G33S



G34D



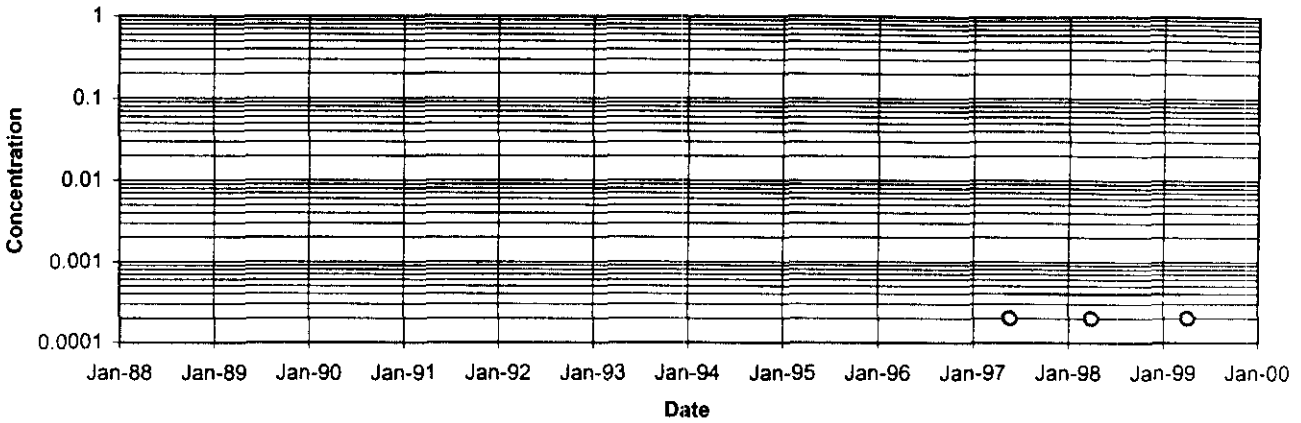
G34S



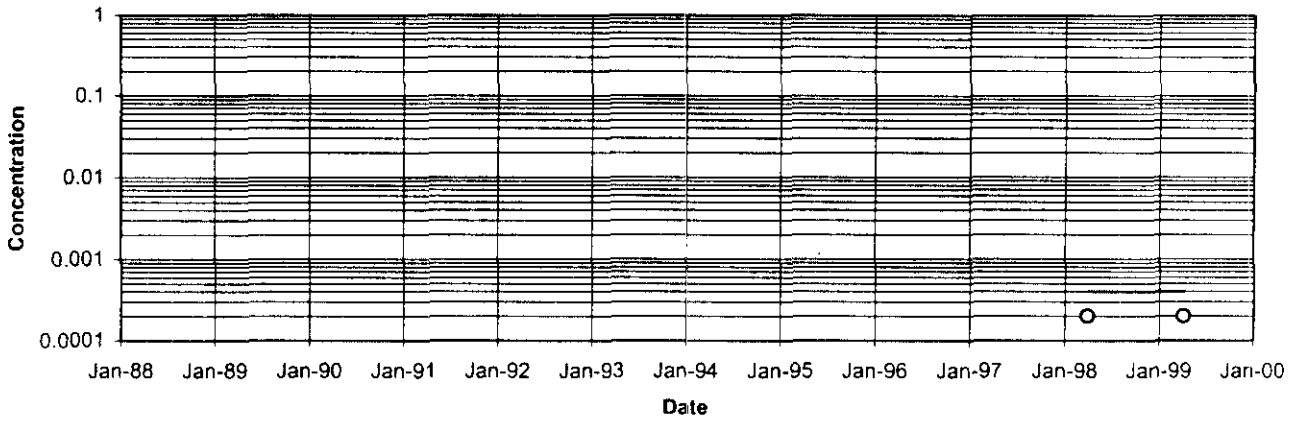
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

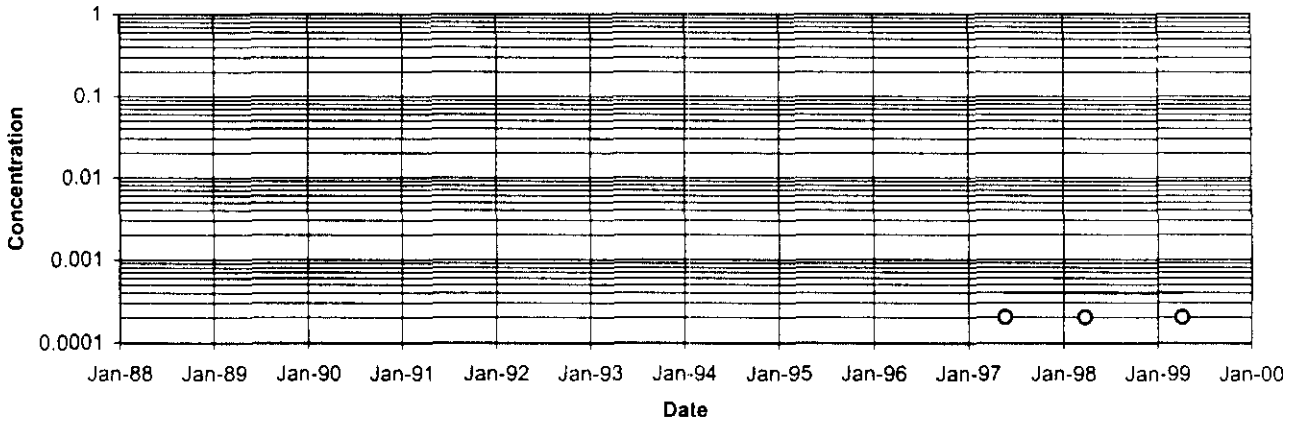
G35D



G35S



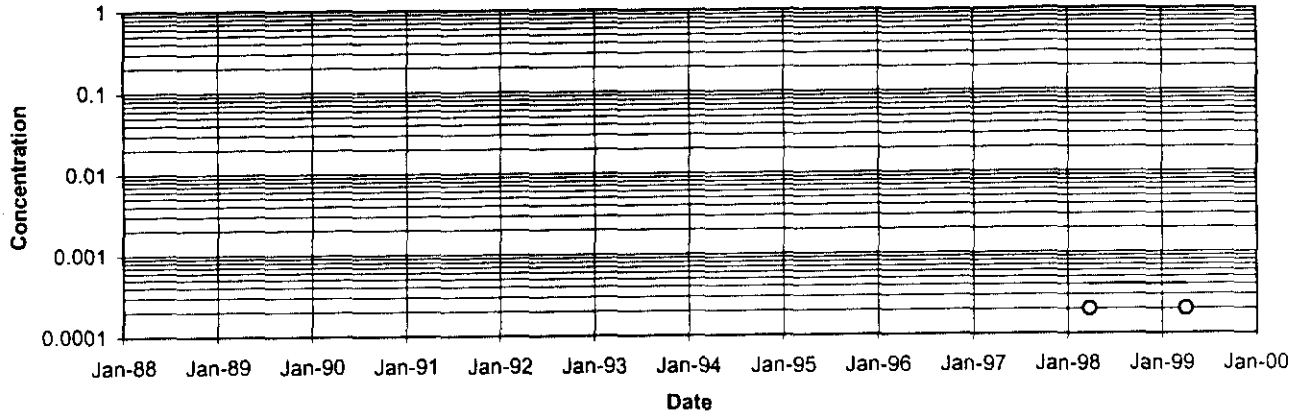
G36



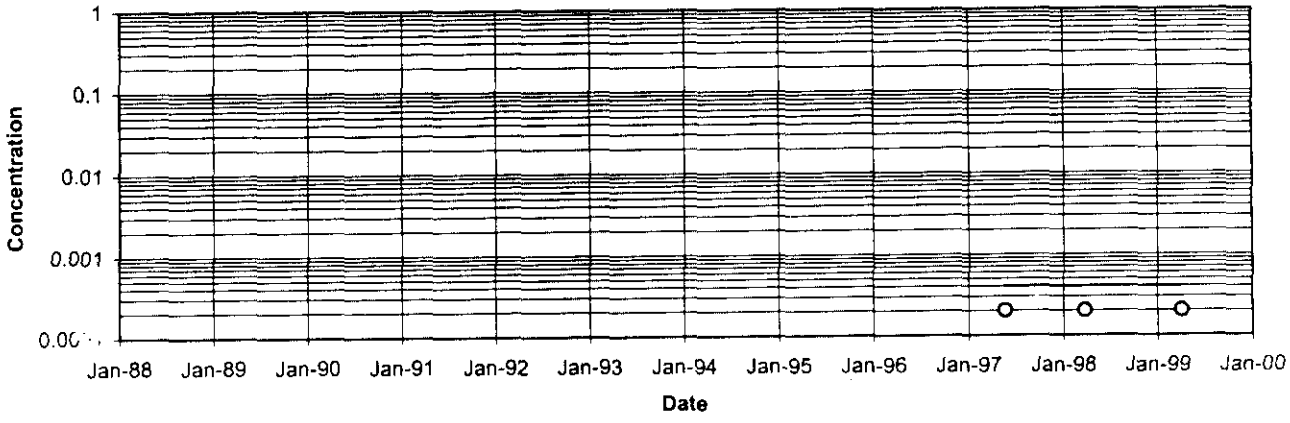
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

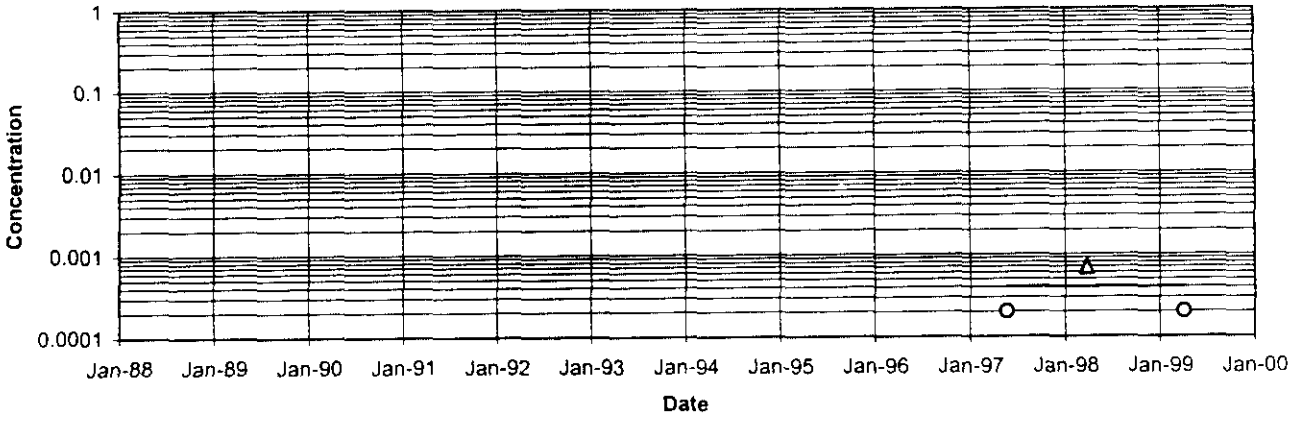
G37D



G37S



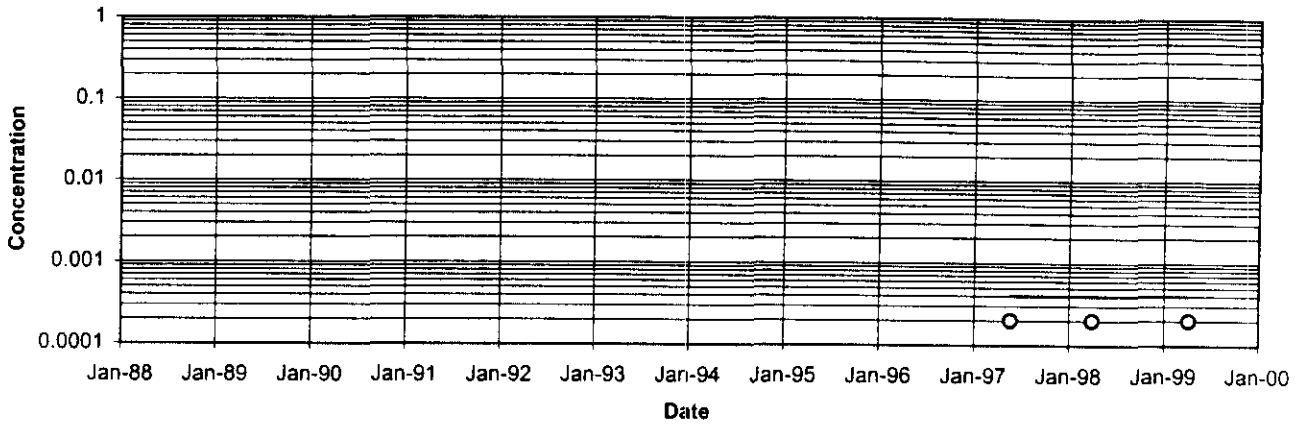
G38



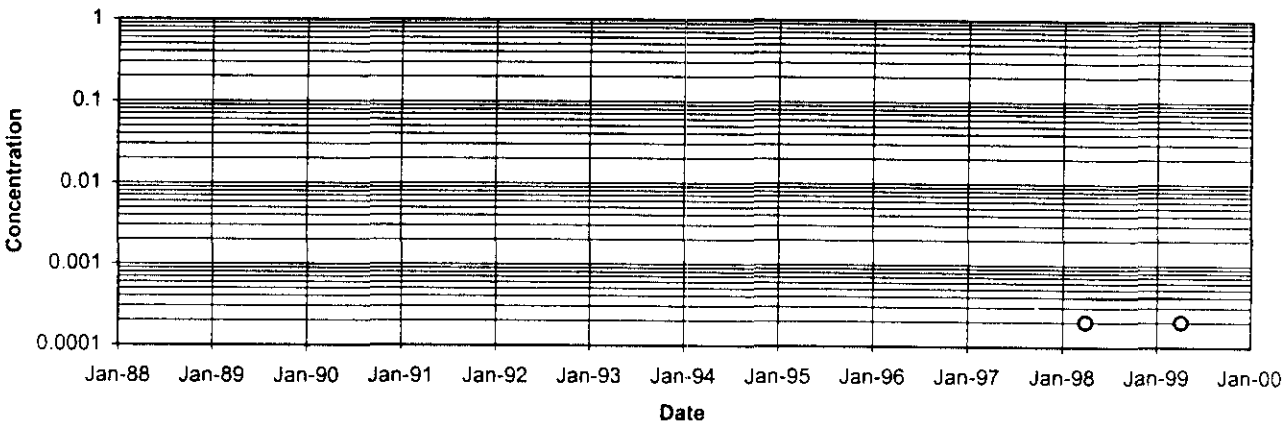
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

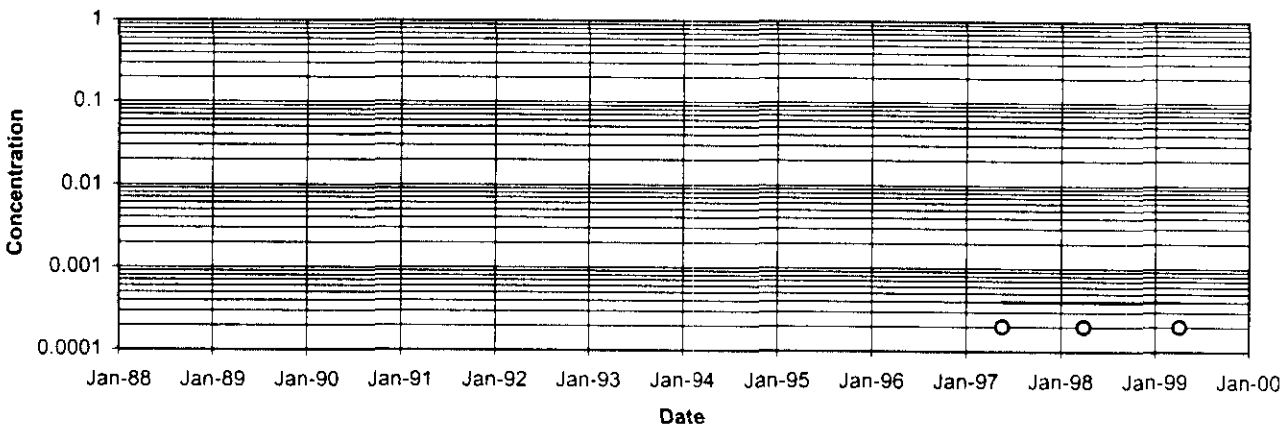
G39



G40



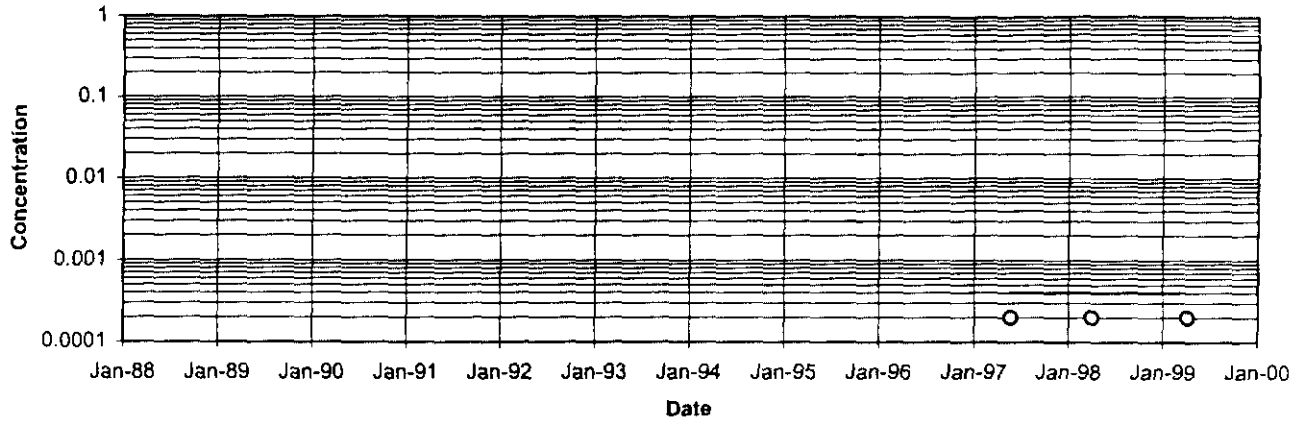
MW106



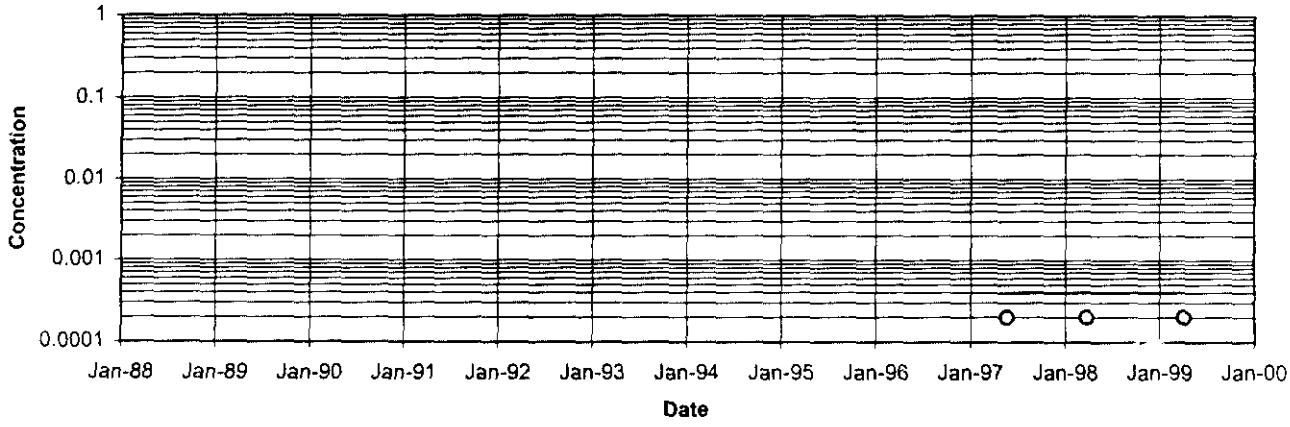
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

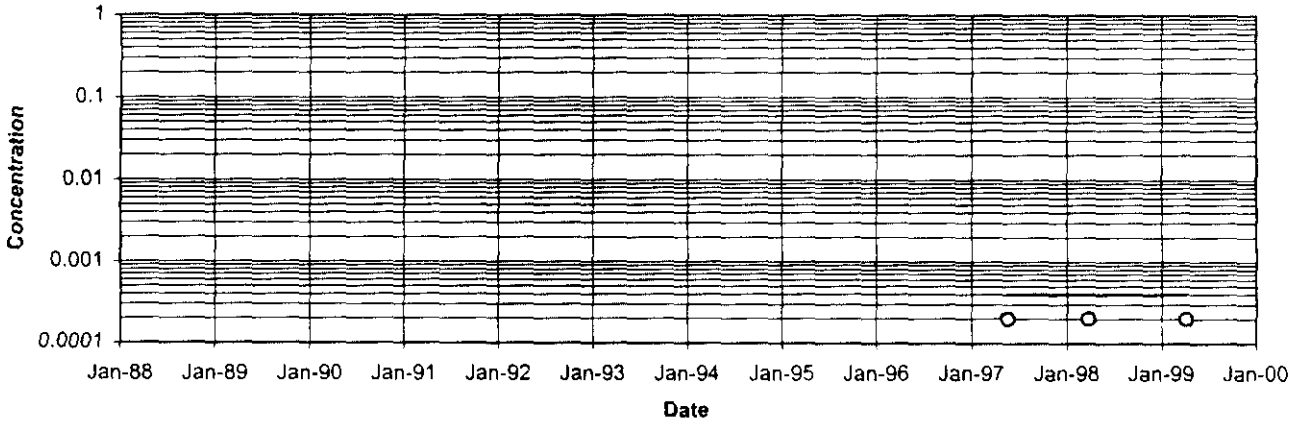
P1



P3R



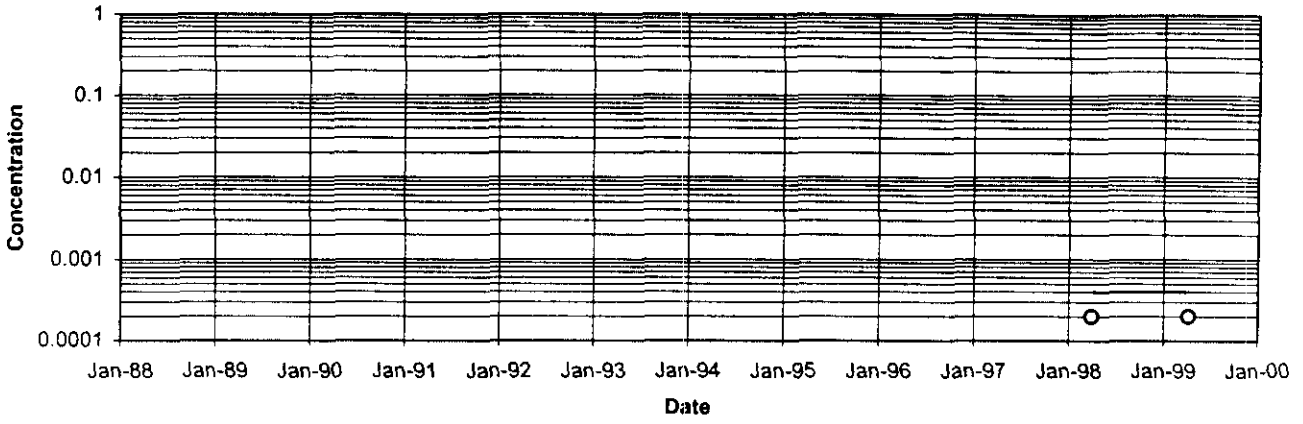
P4R



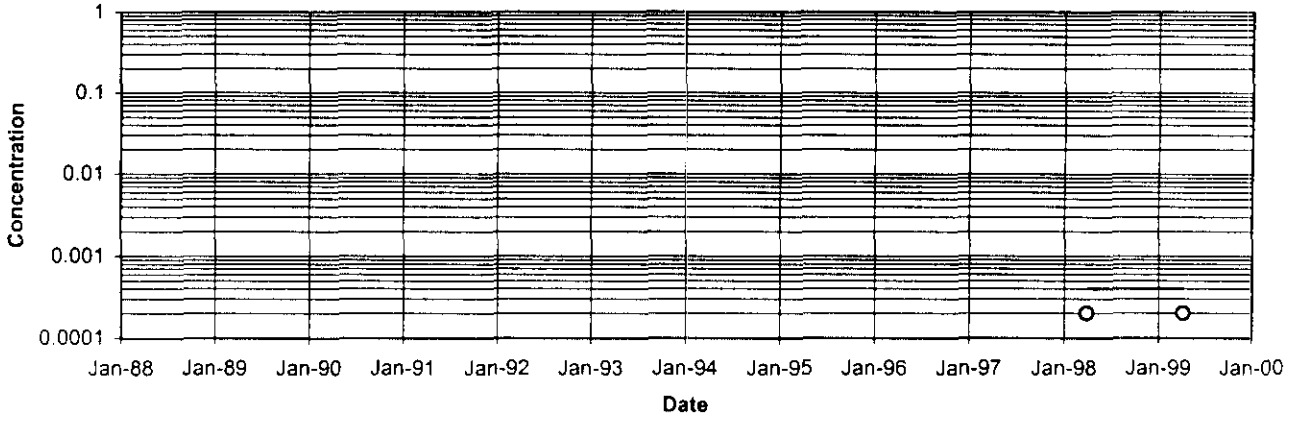
Mercury (mg/L)

AGQS Δ Concentration O NonDetect

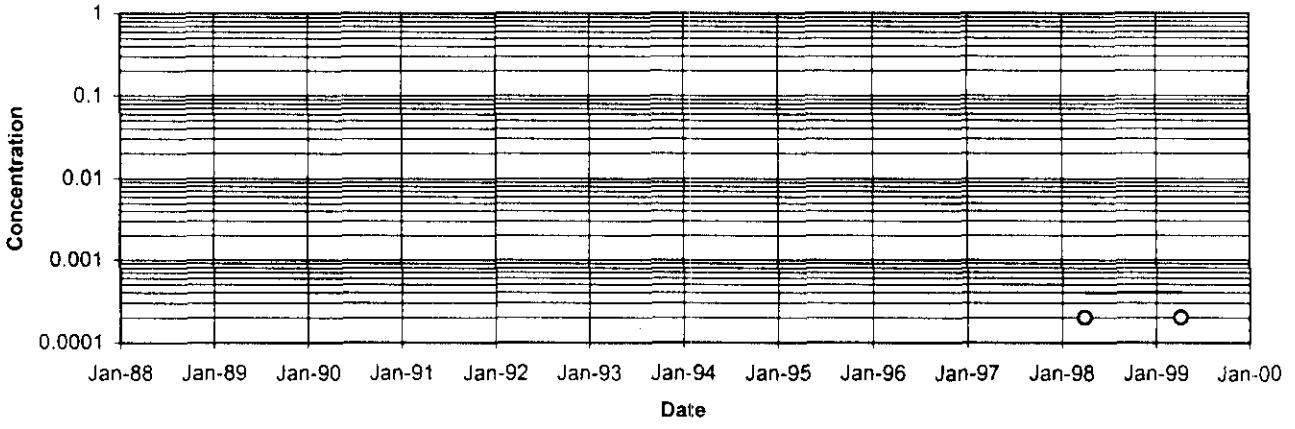
SG1



SG3



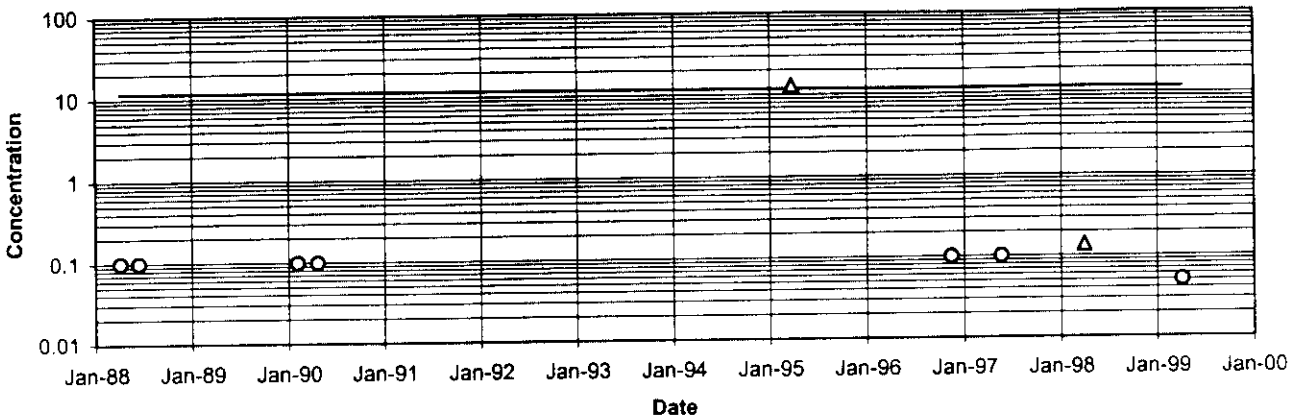
SG4



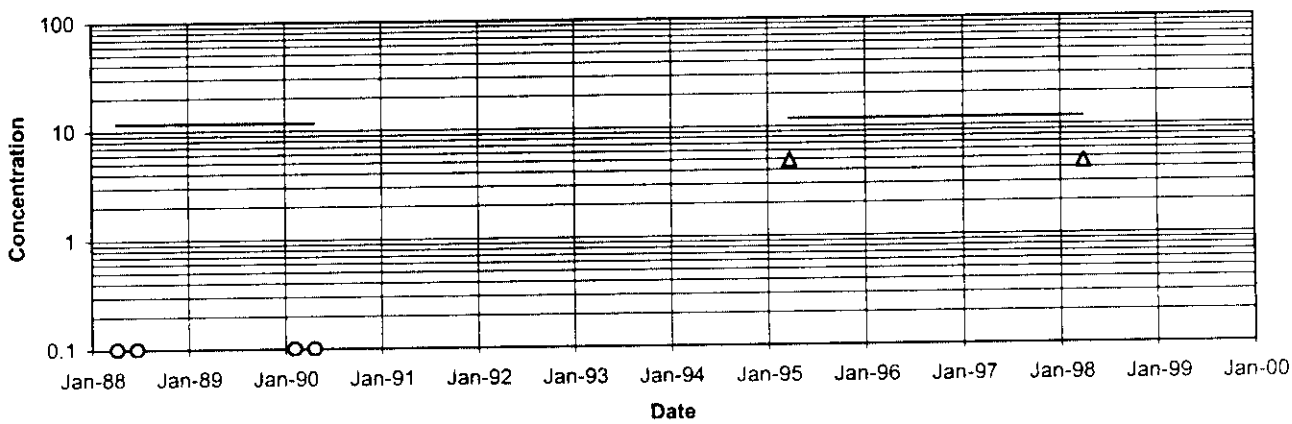
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

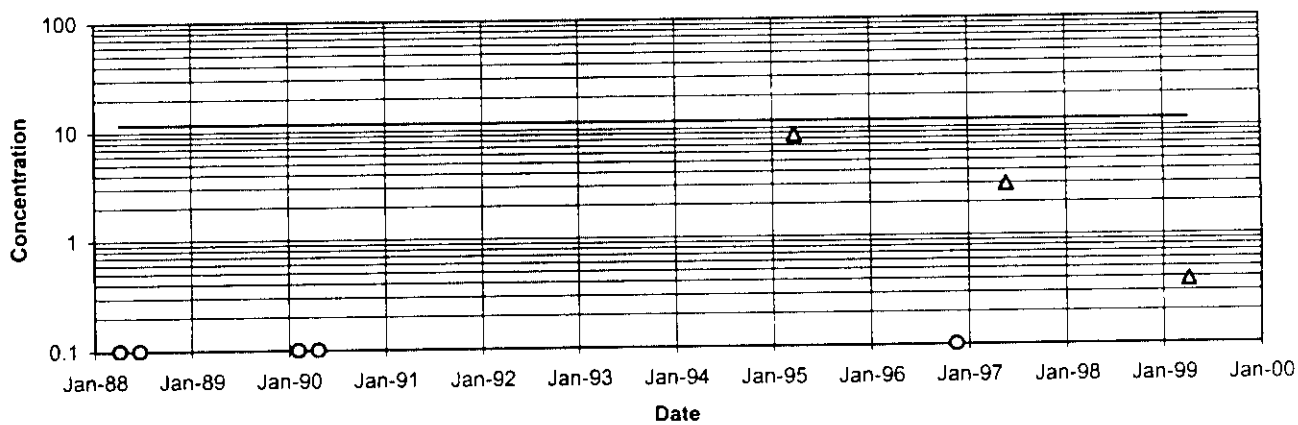
G115



G116



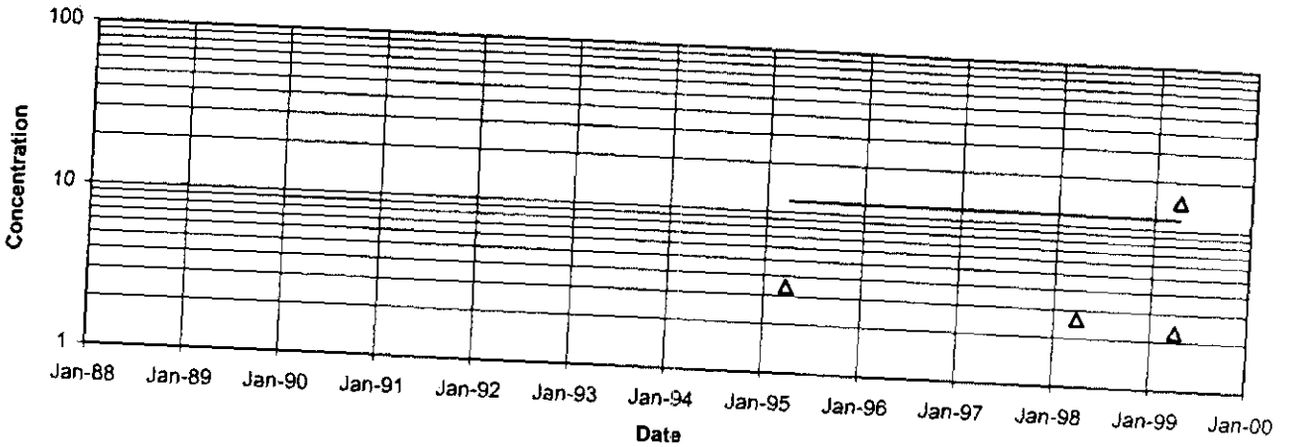
G116A



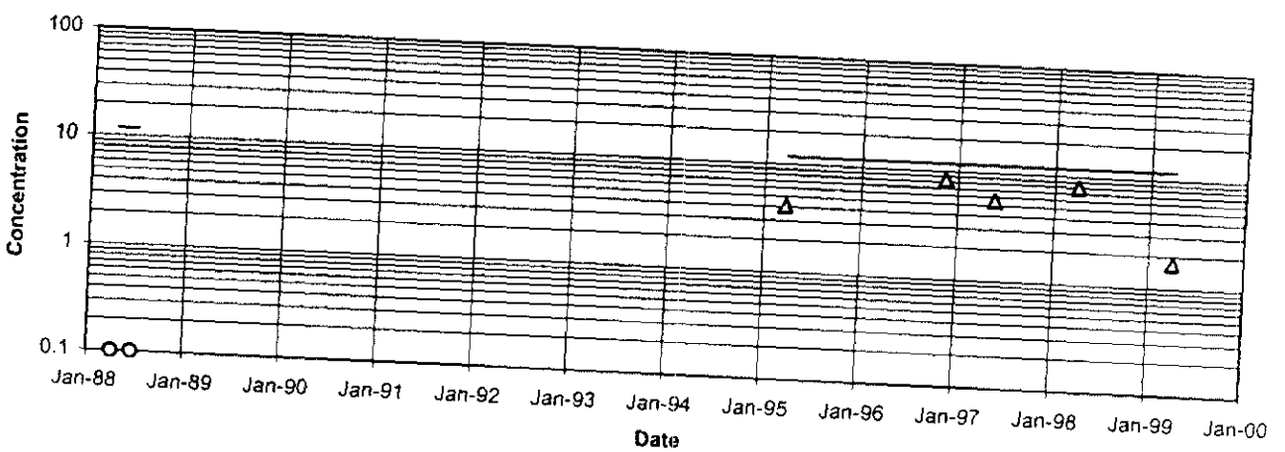
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration ○ NonDetect

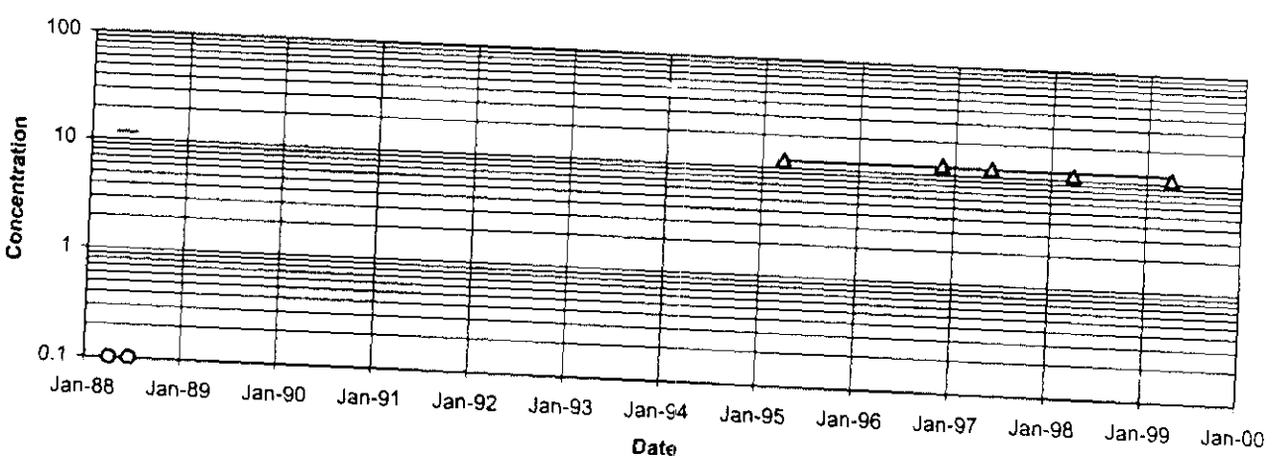
G116D



G117



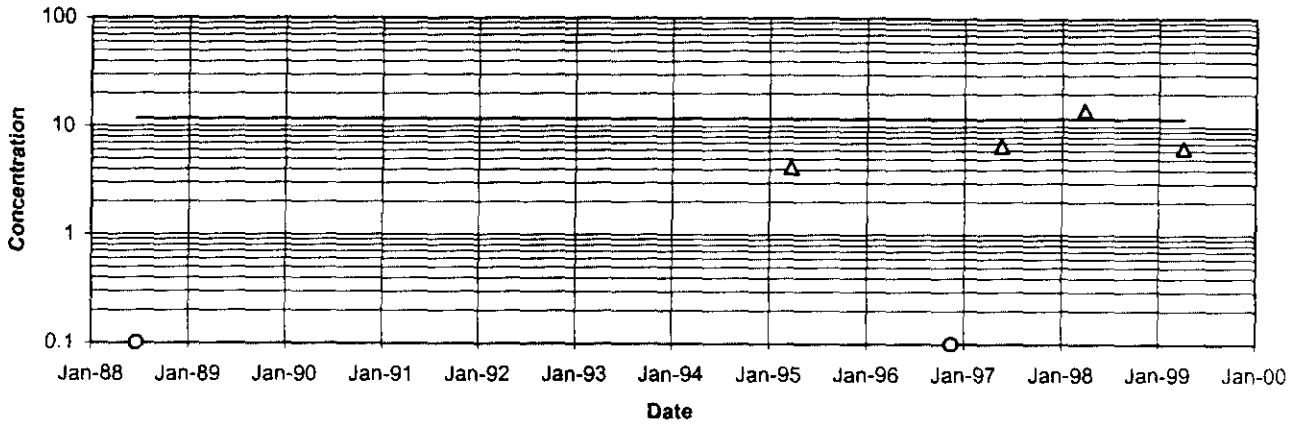
G118A



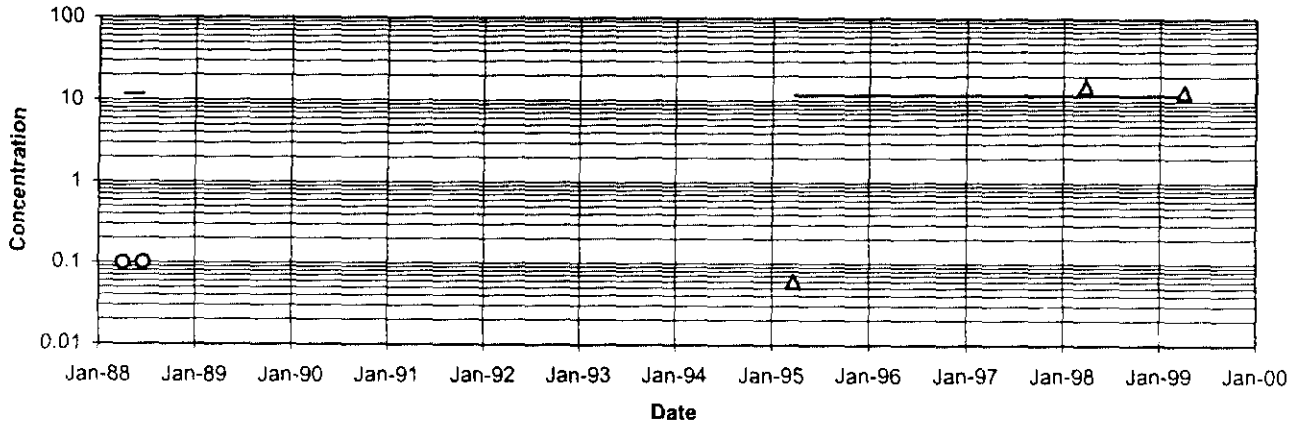
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

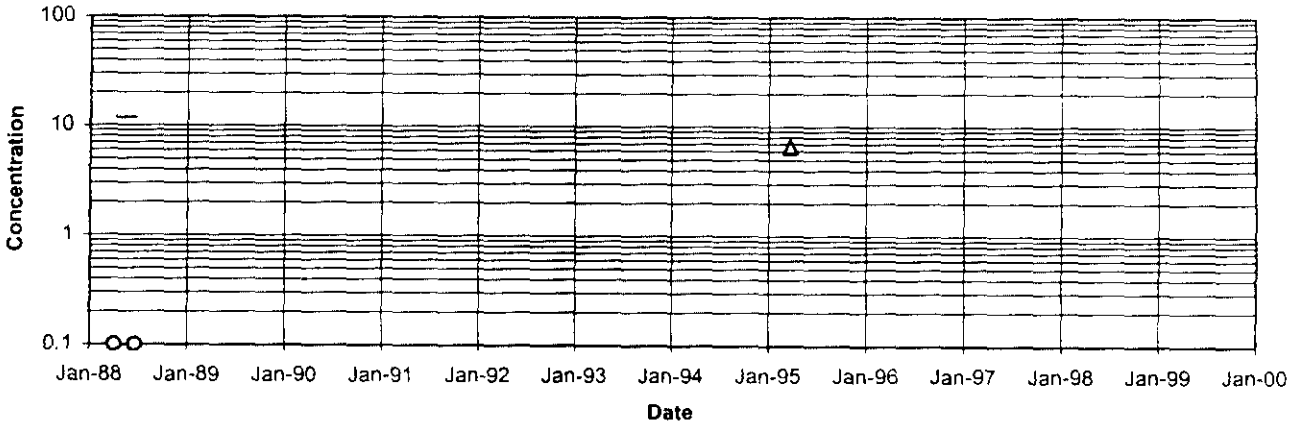
G118R



G119



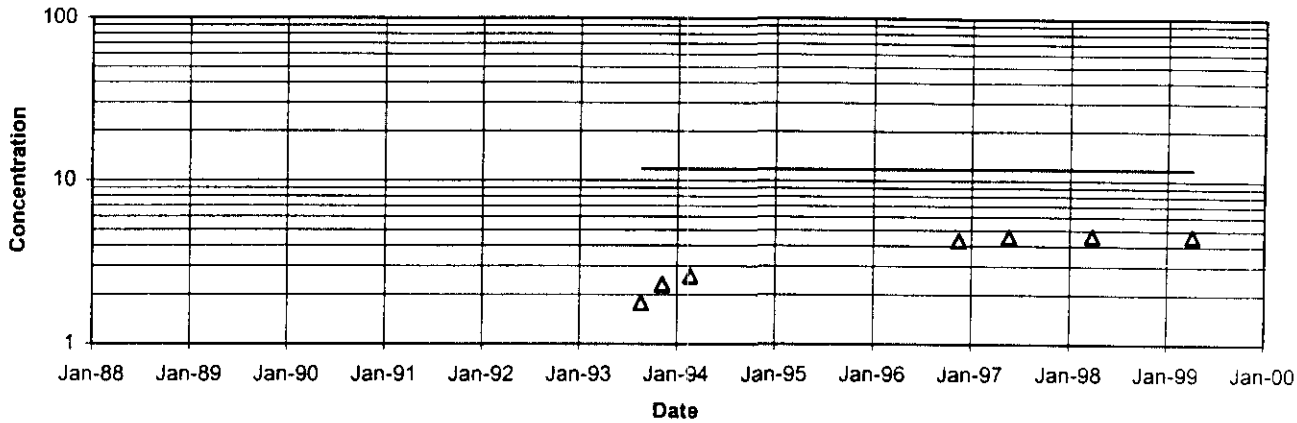
G119A



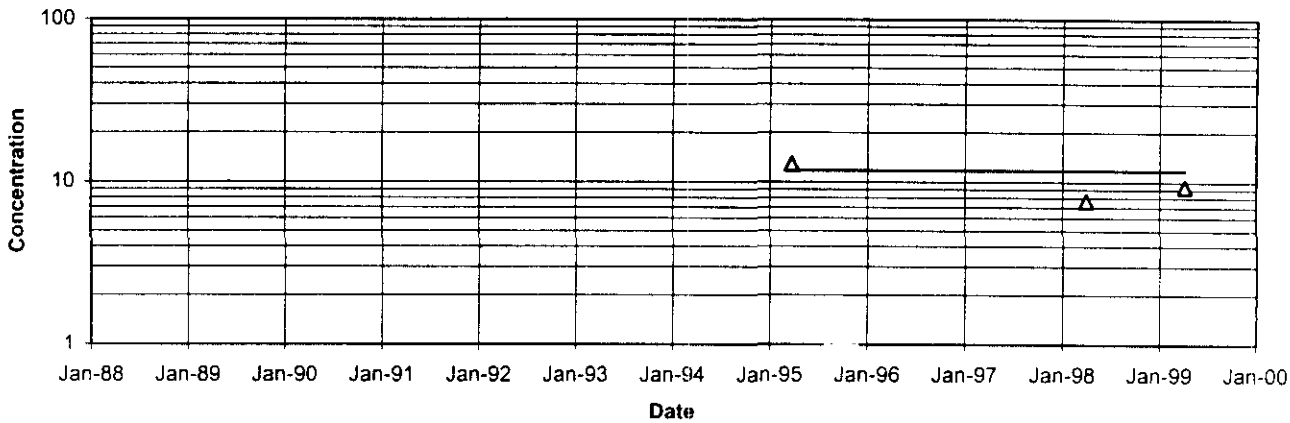
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

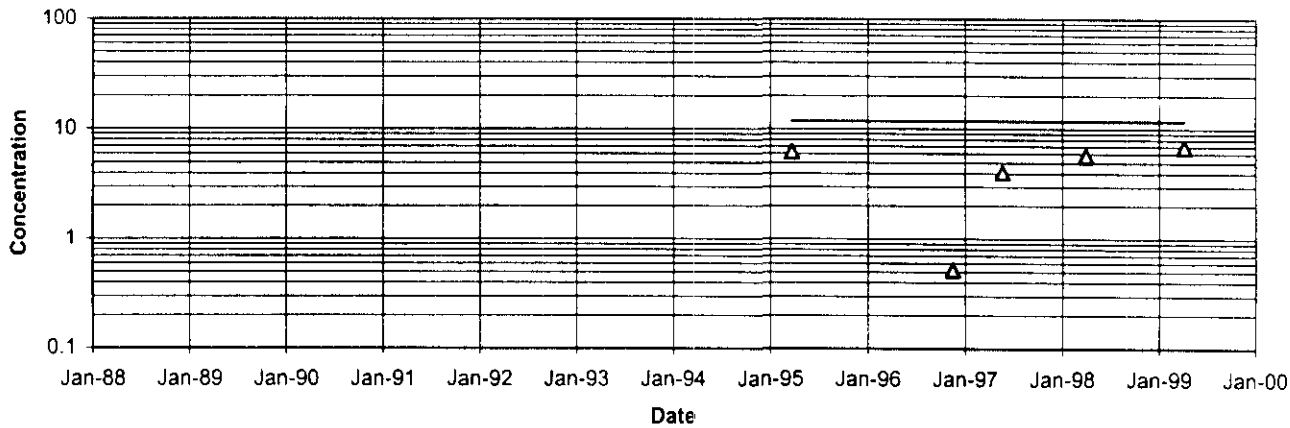
G120B



G130



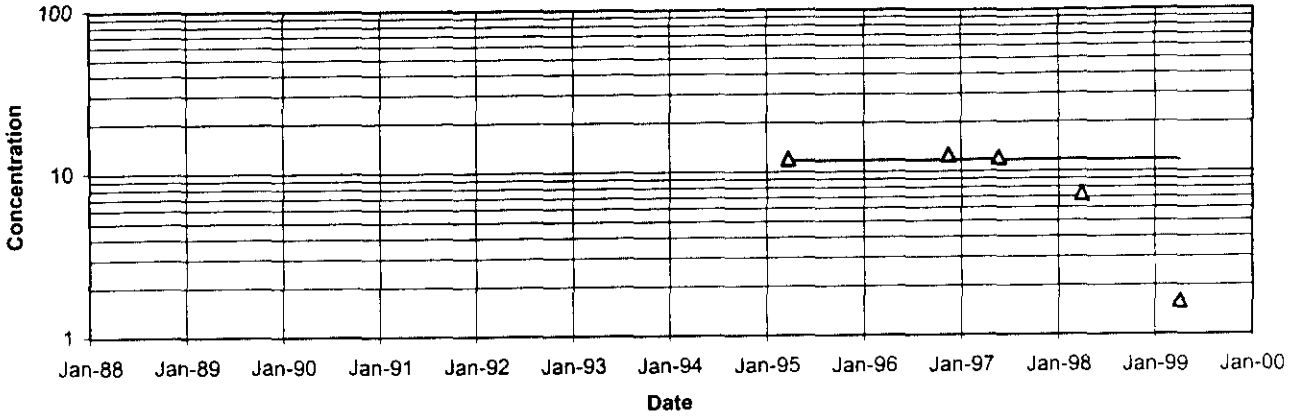
G132



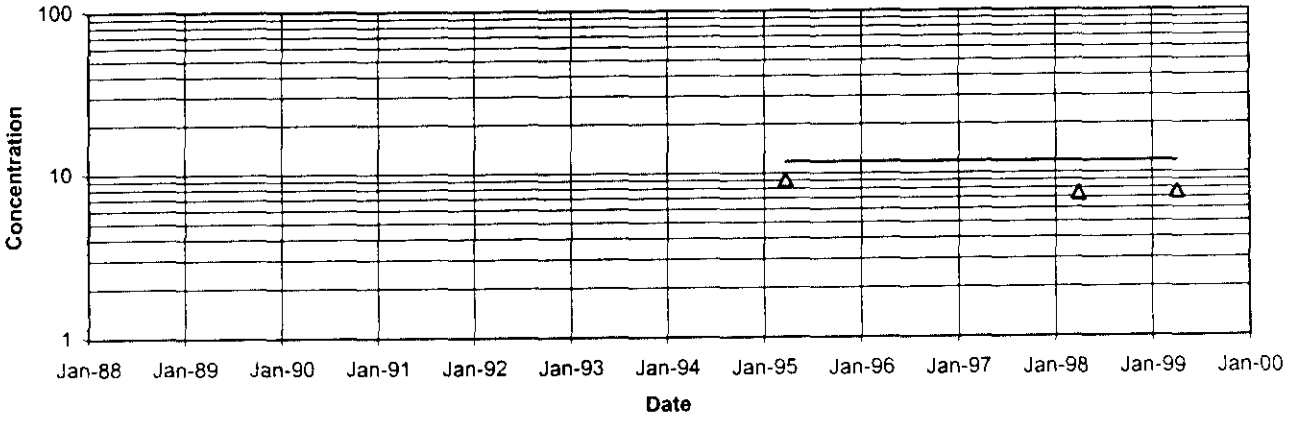
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

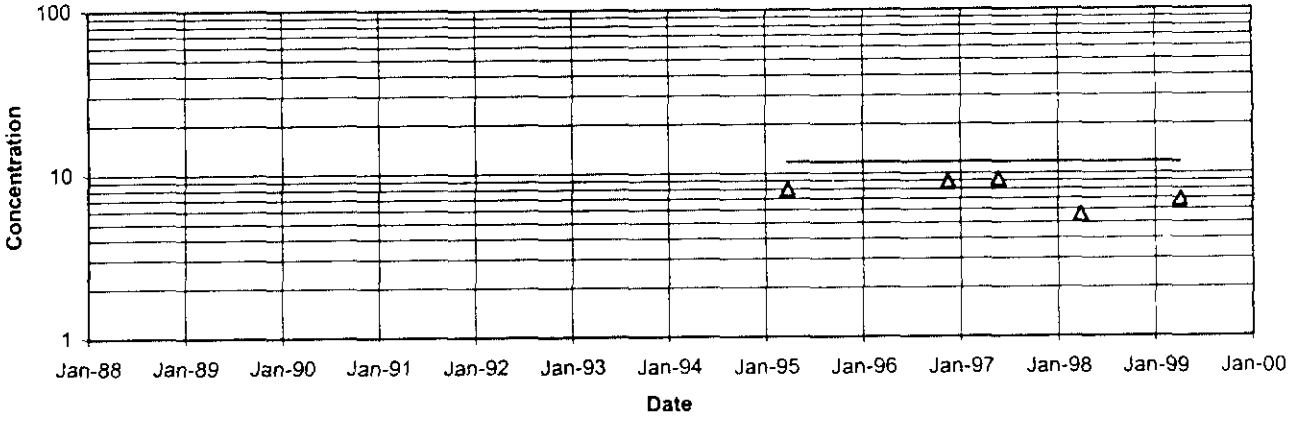
G33D



G33S



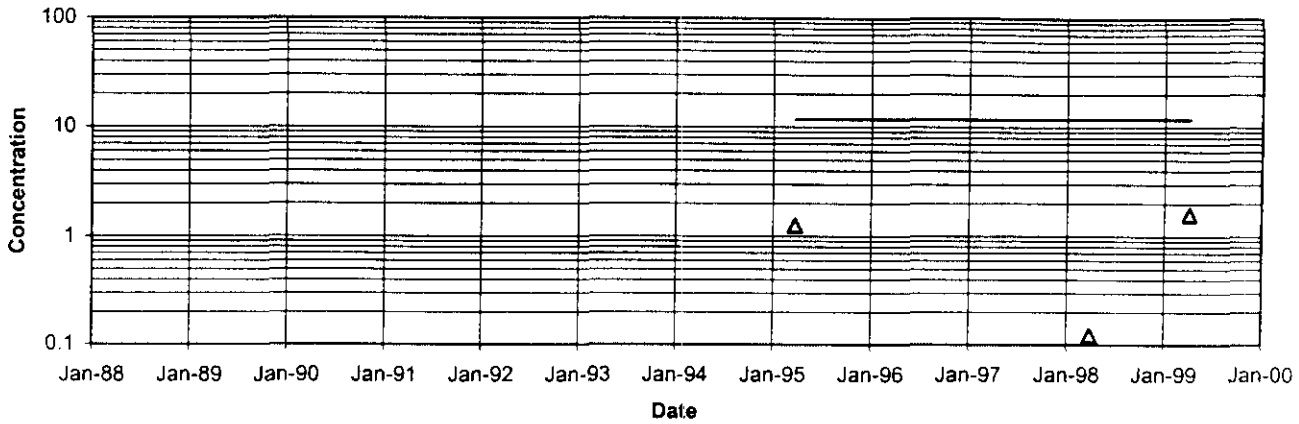
G34D



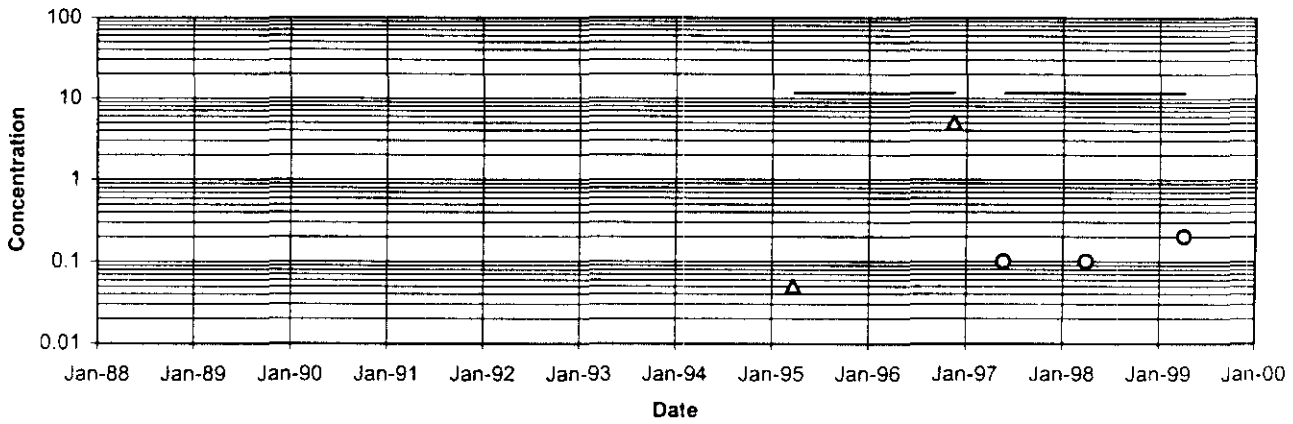
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

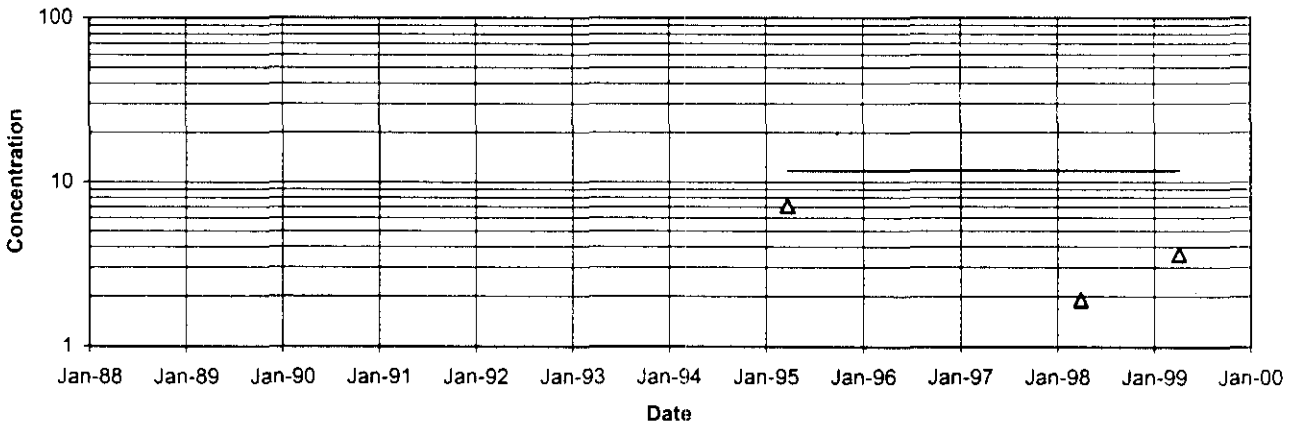
G34S



G35D



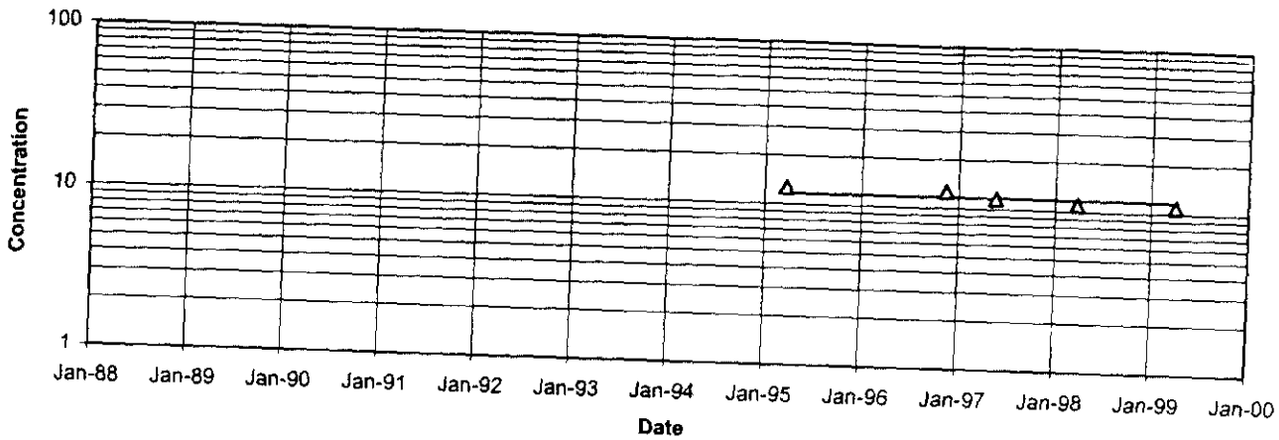
G35S



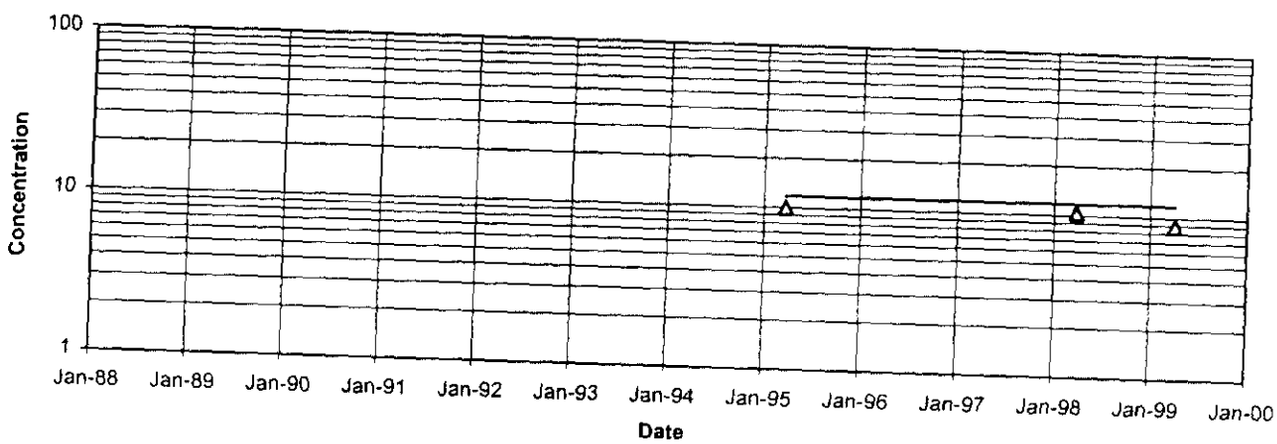
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration ○ NonDetect

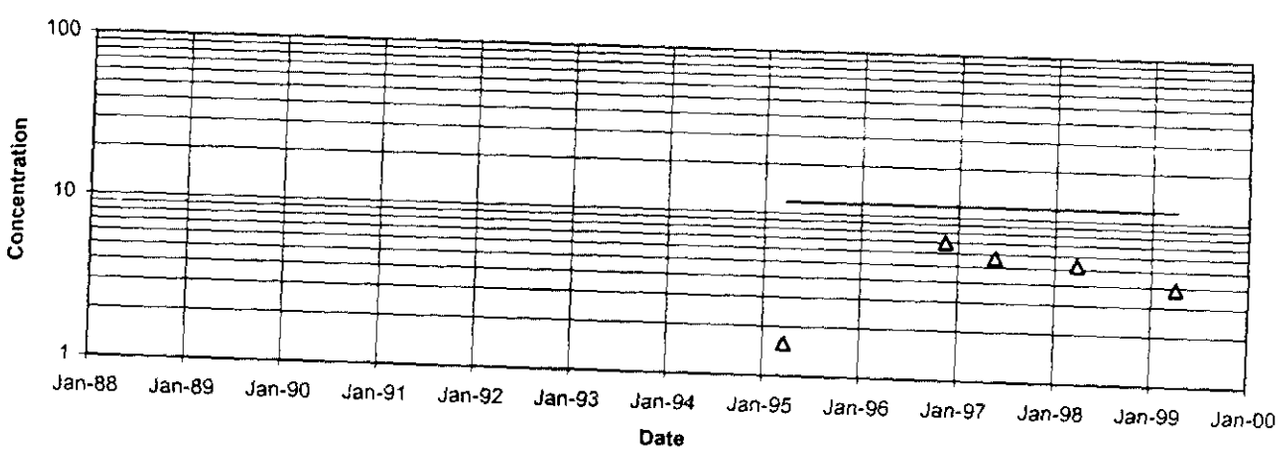
G36



G37D



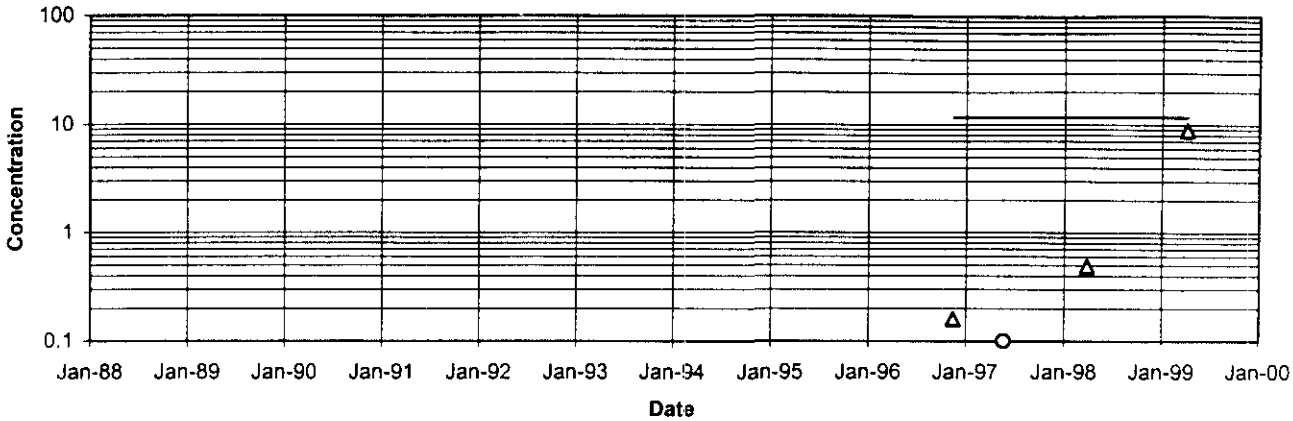
G37S



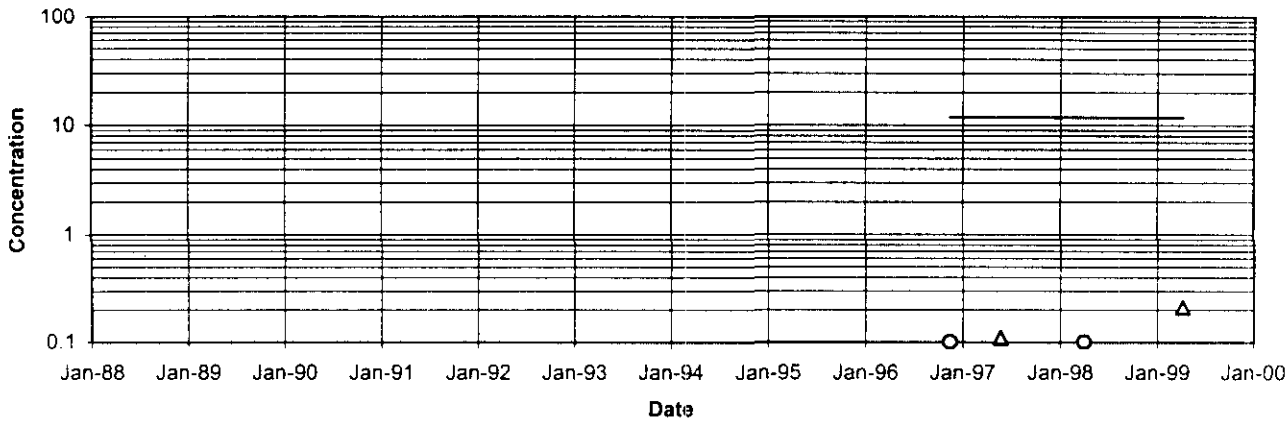
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

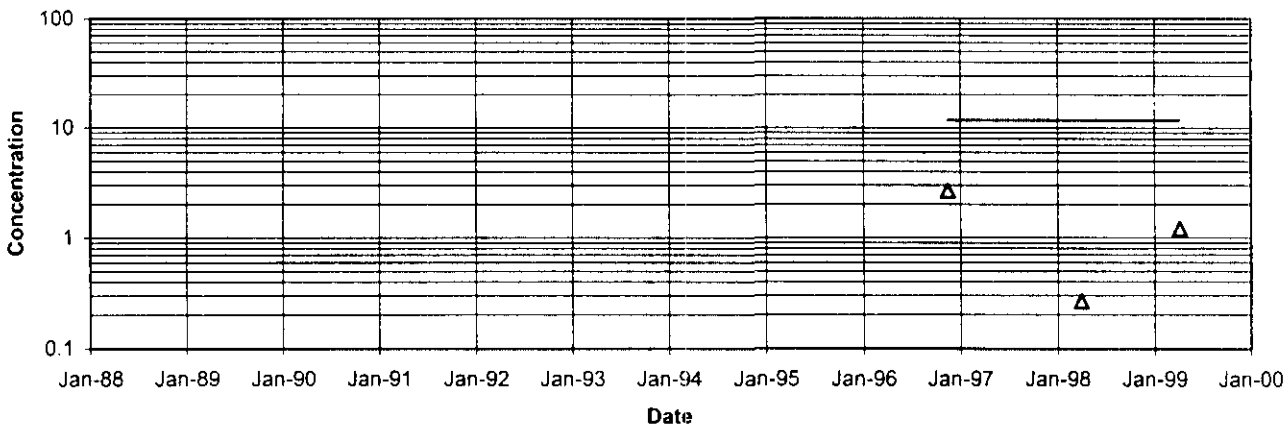
G38



G39



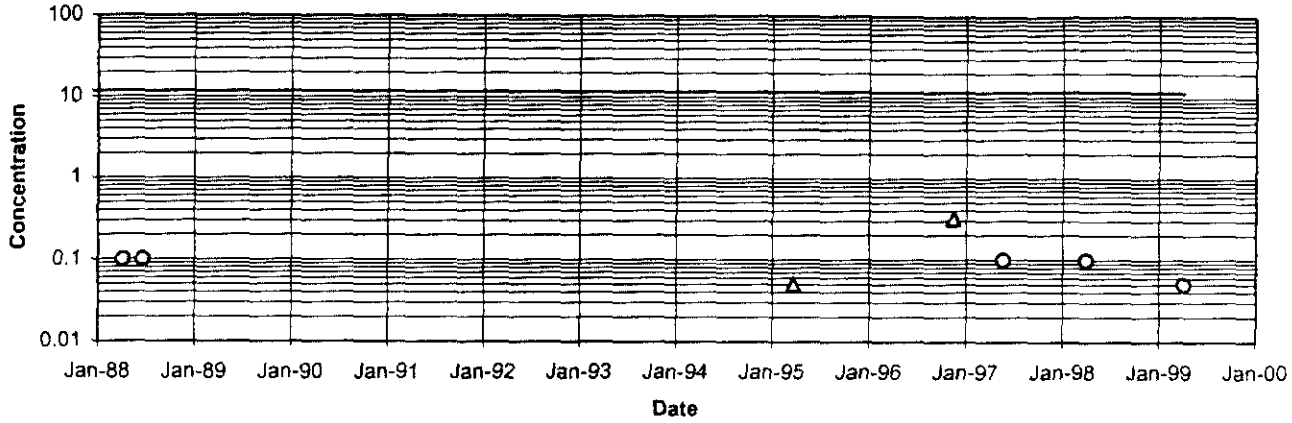
G40



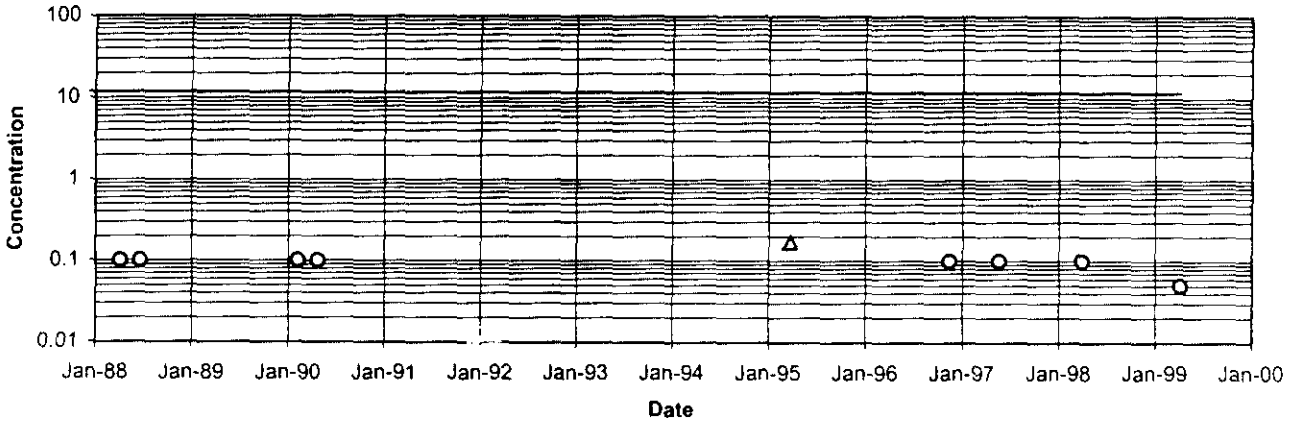
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

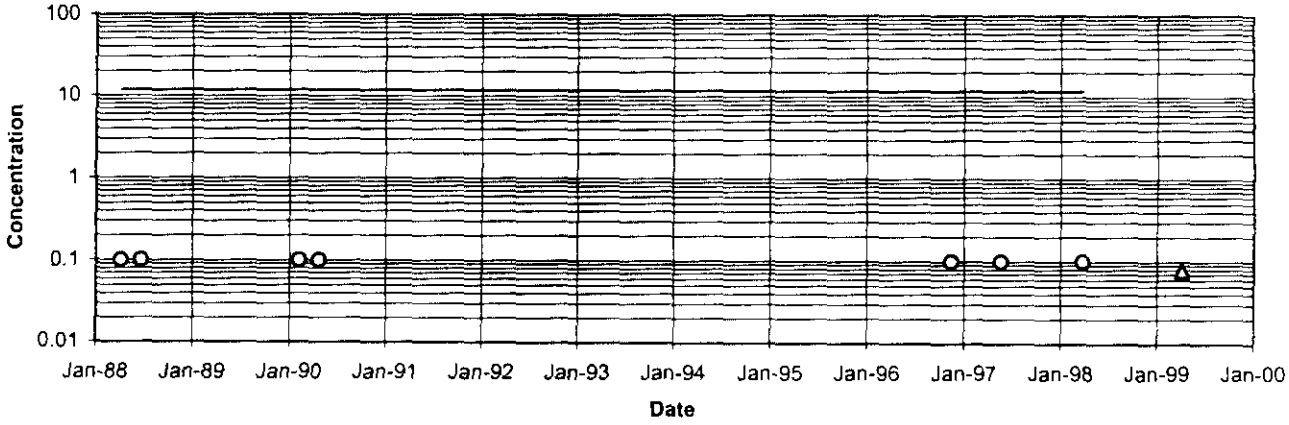
MW106



P1



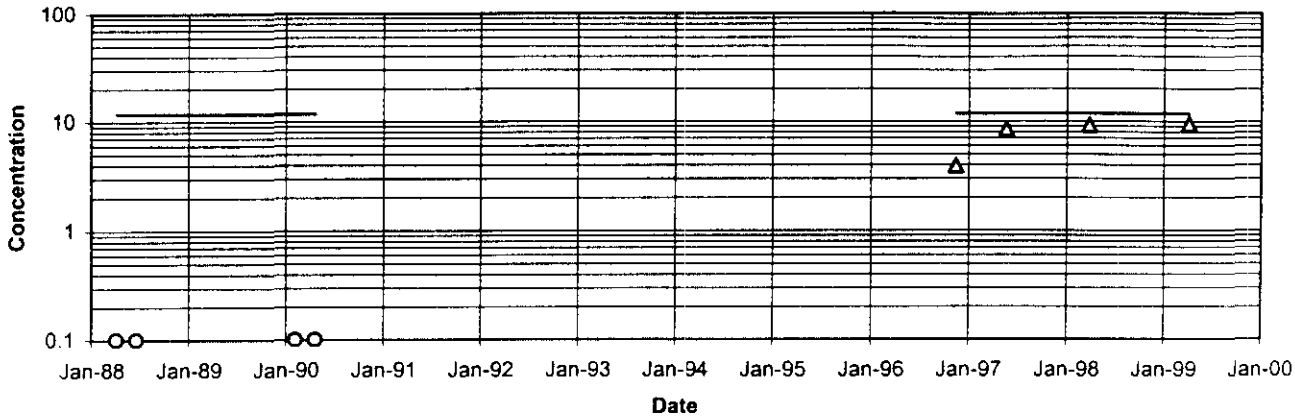
P3R



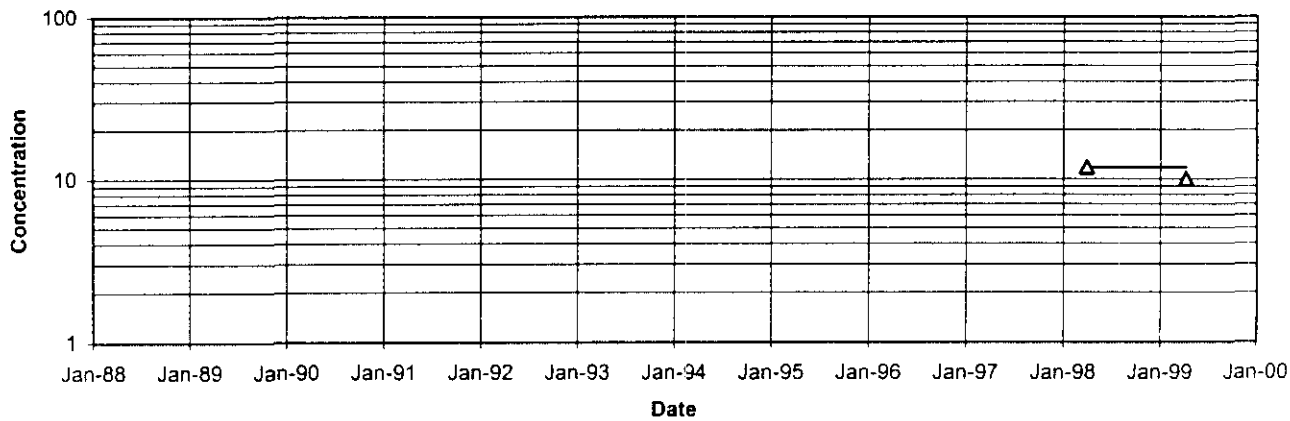
Nitrate, Nitrogen (mg/L)

AGQS Δ Concentration O NonDetect

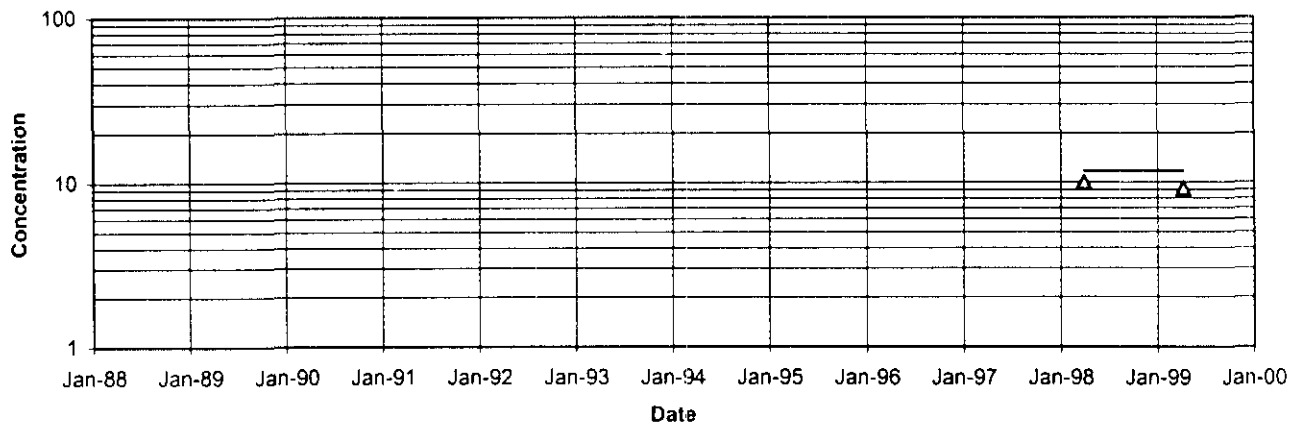
P4R



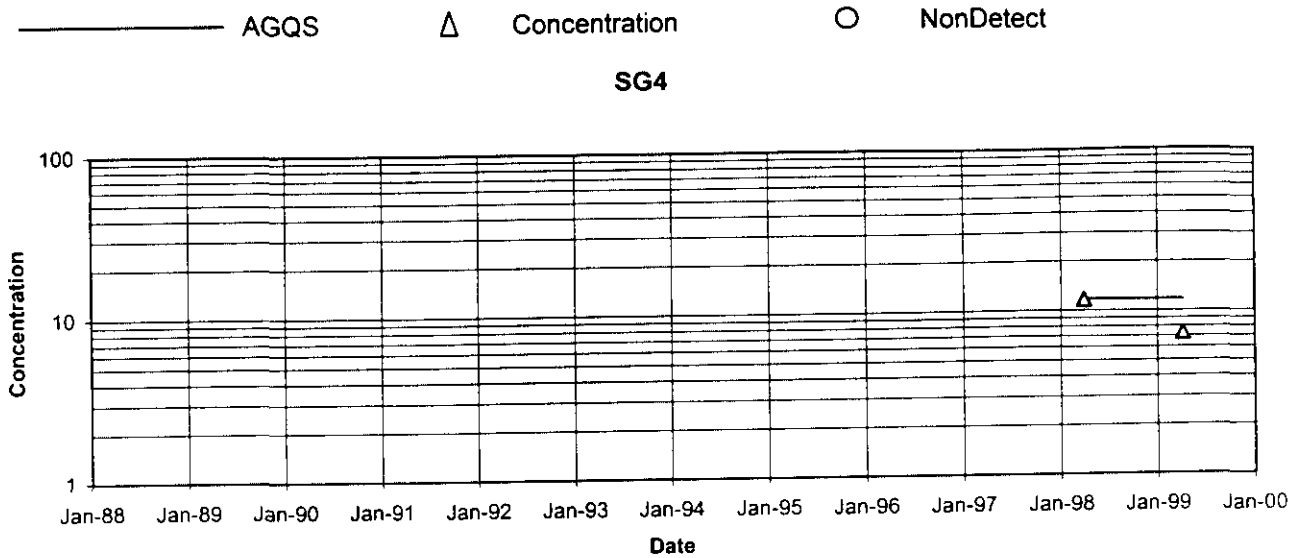
SG1



SG3



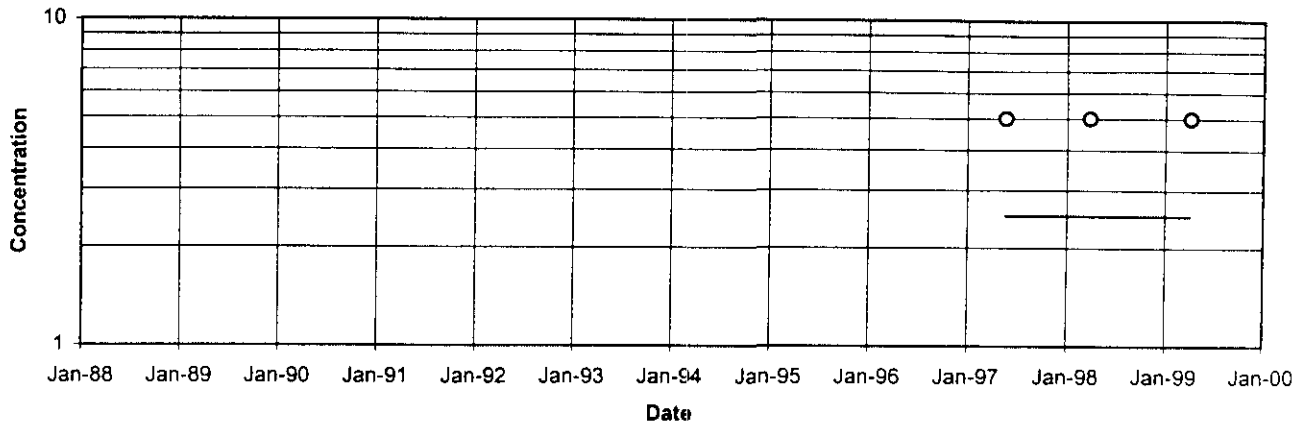
Nitrate, Nitrogen (mg/L)



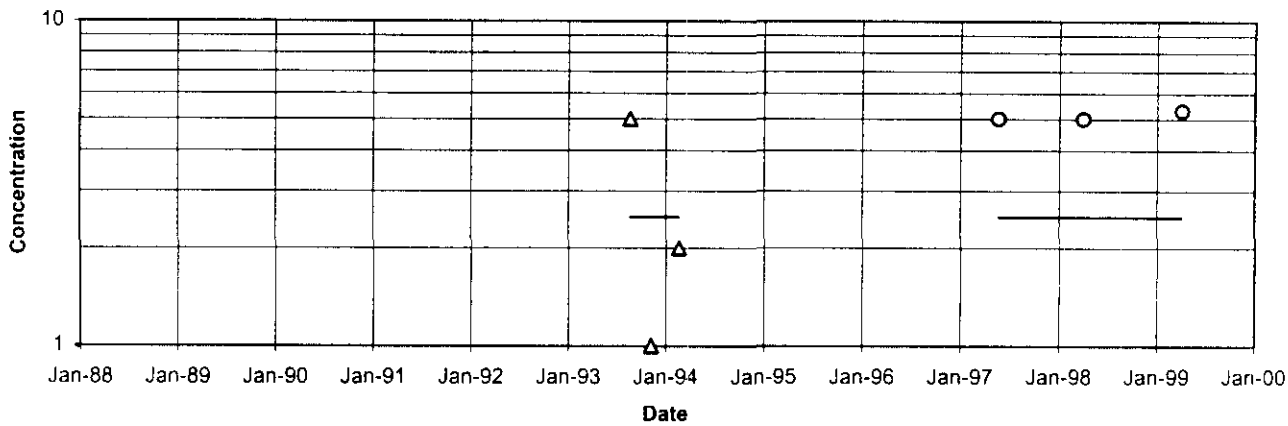
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

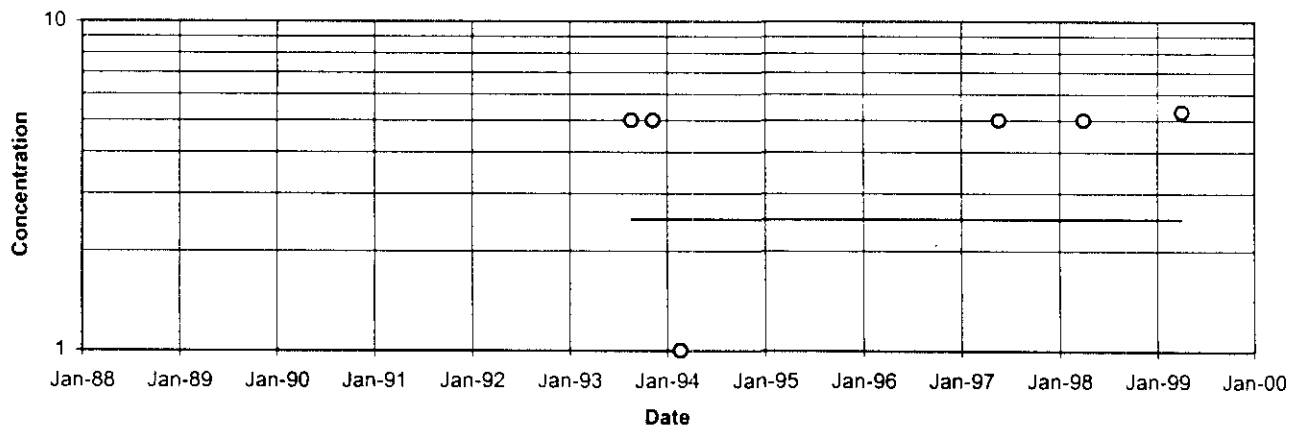
B15R



G109



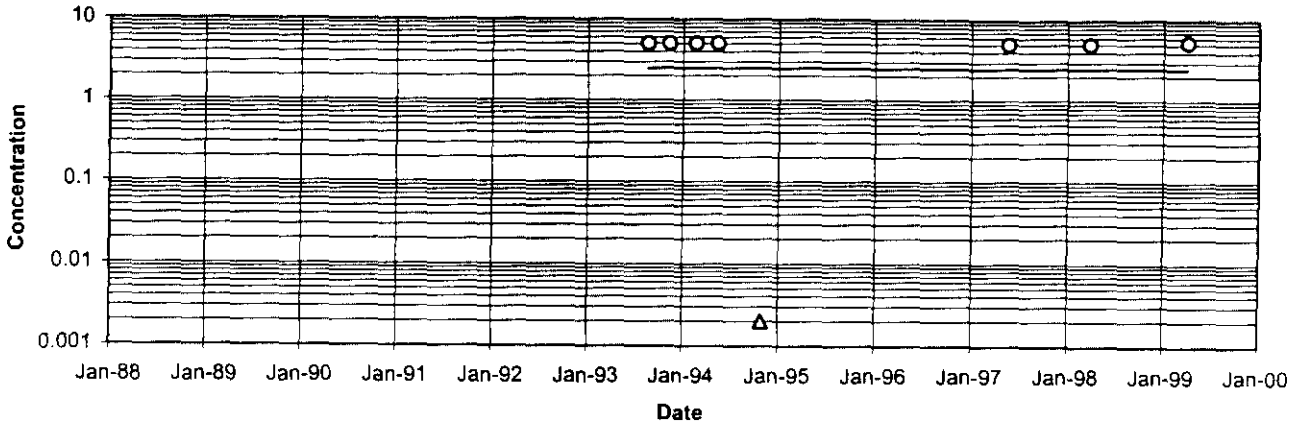
G109A



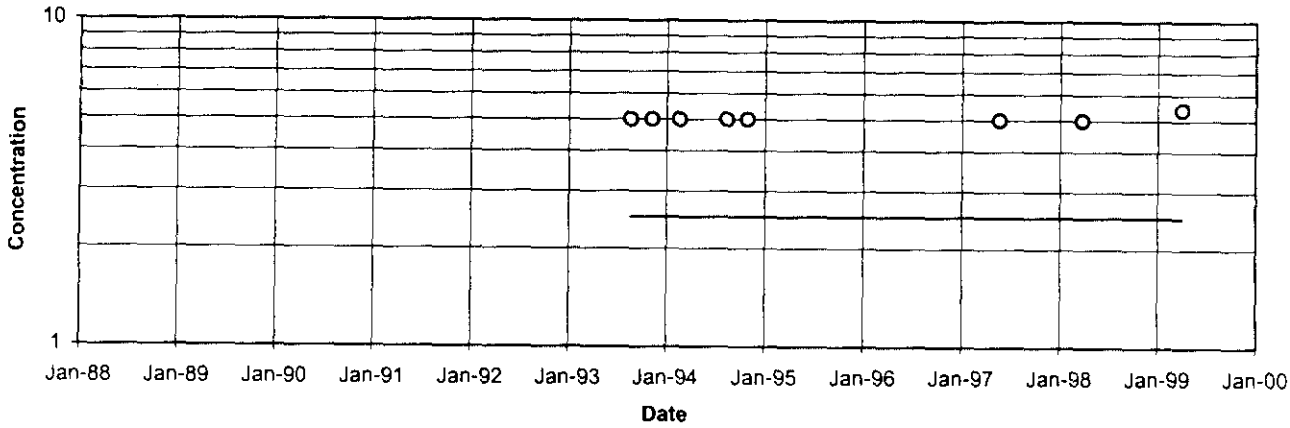
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

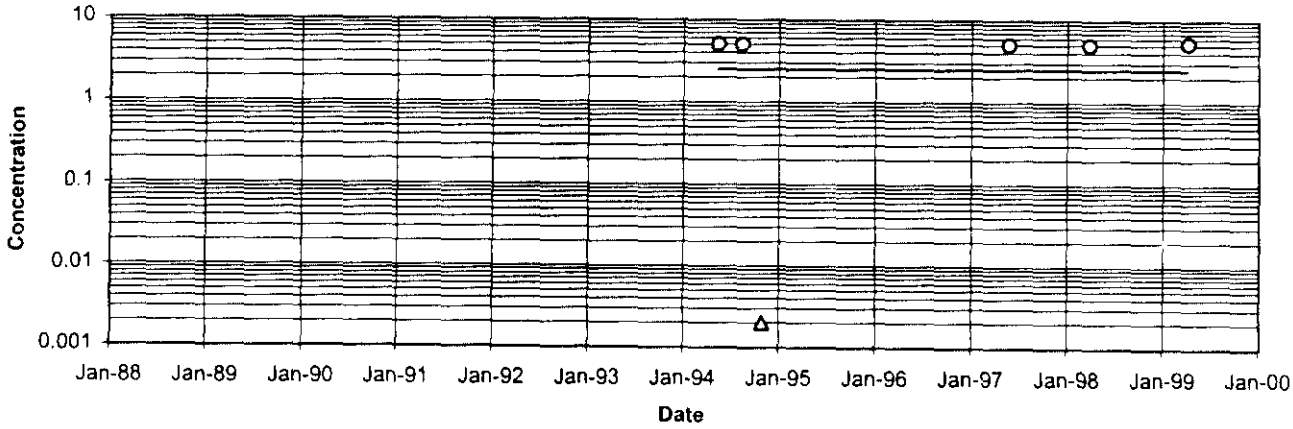
G113



G113A



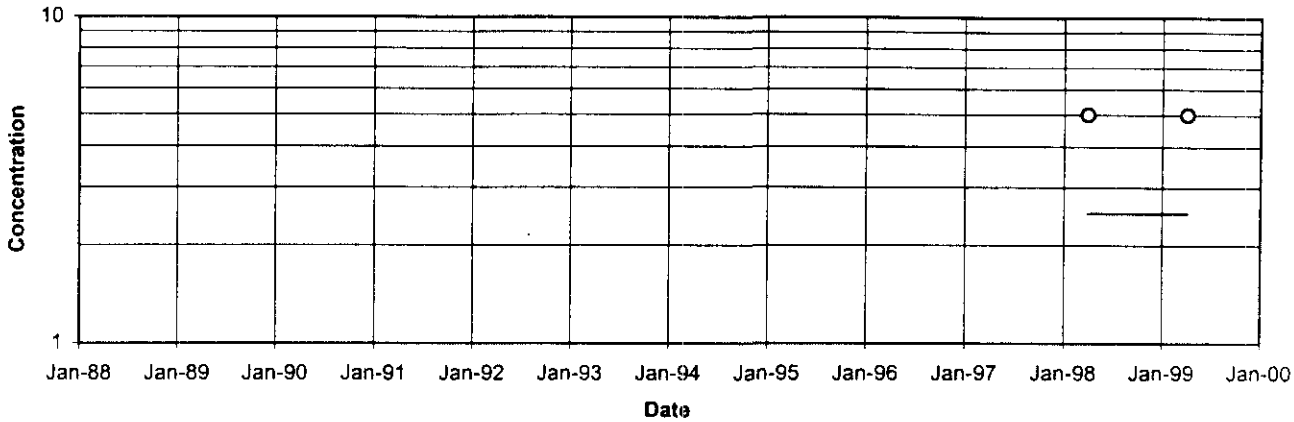
G114



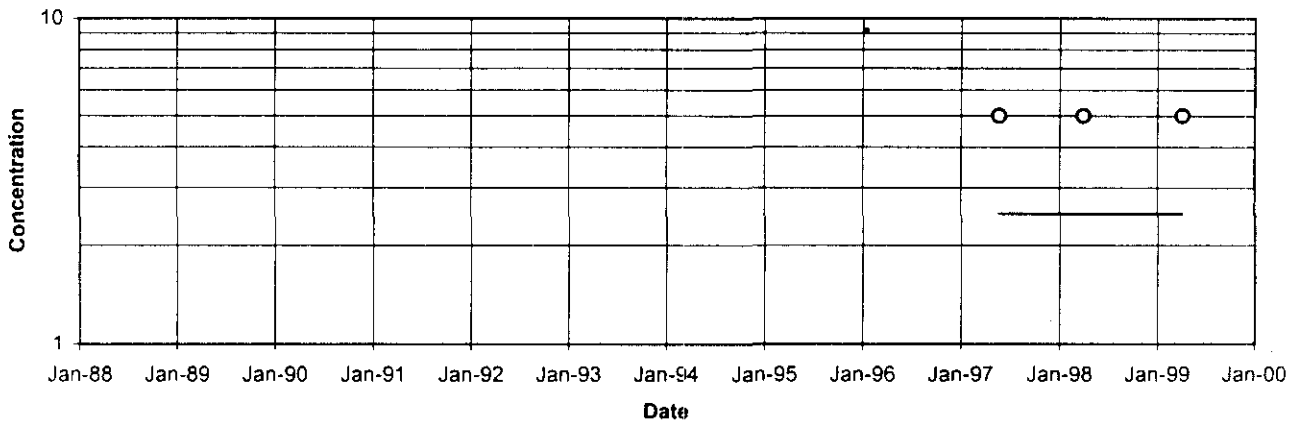
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

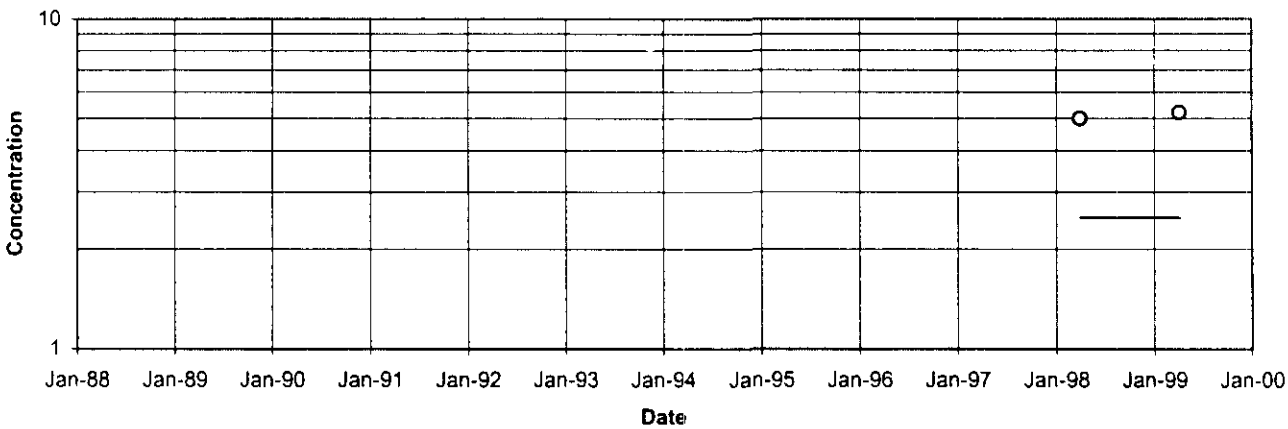
G33S



G34D



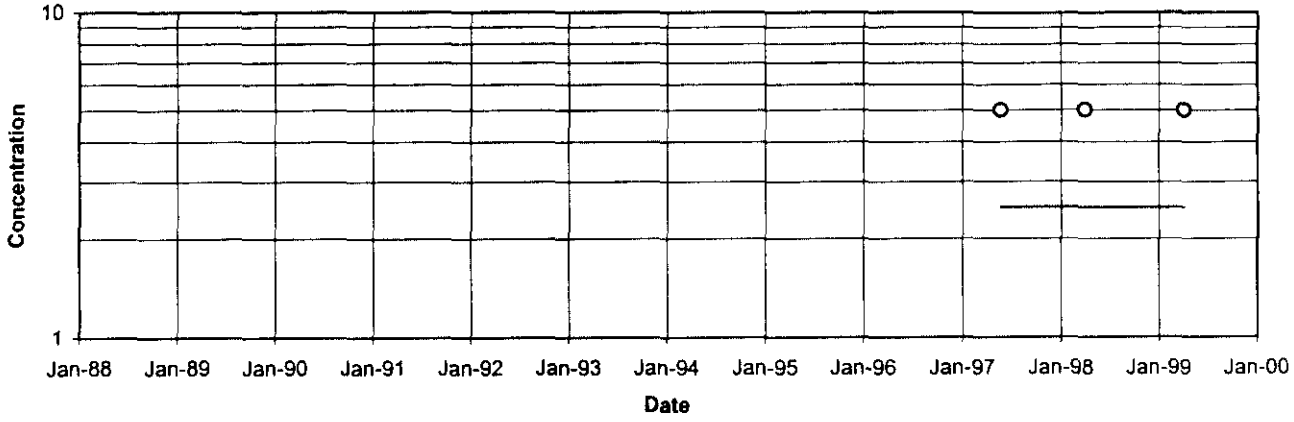
G34S



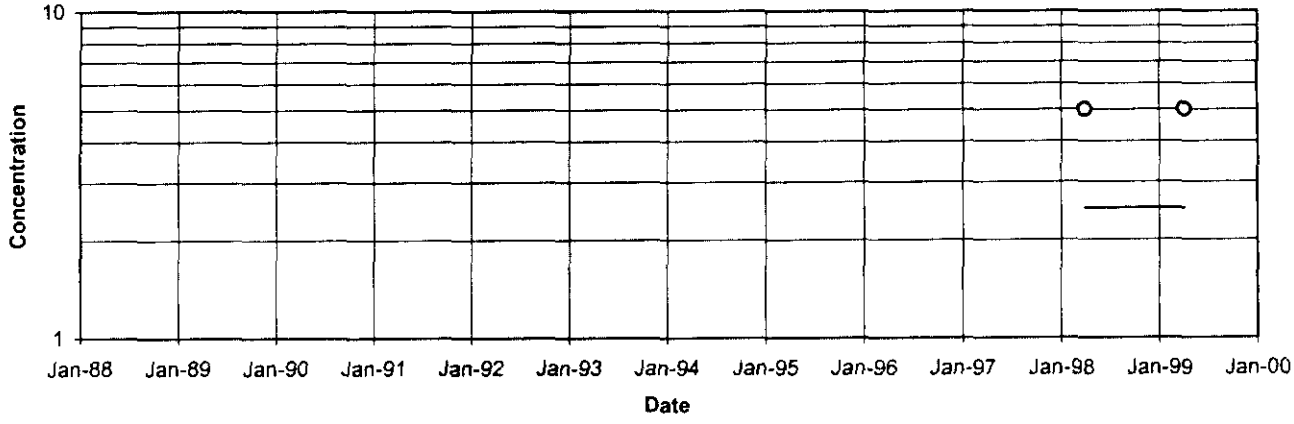
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

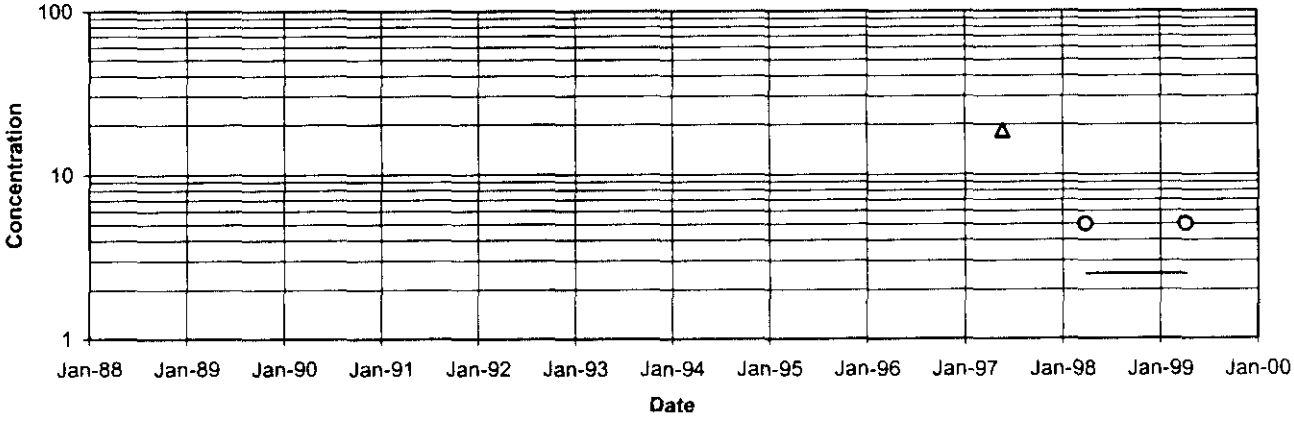
G35D



G35S



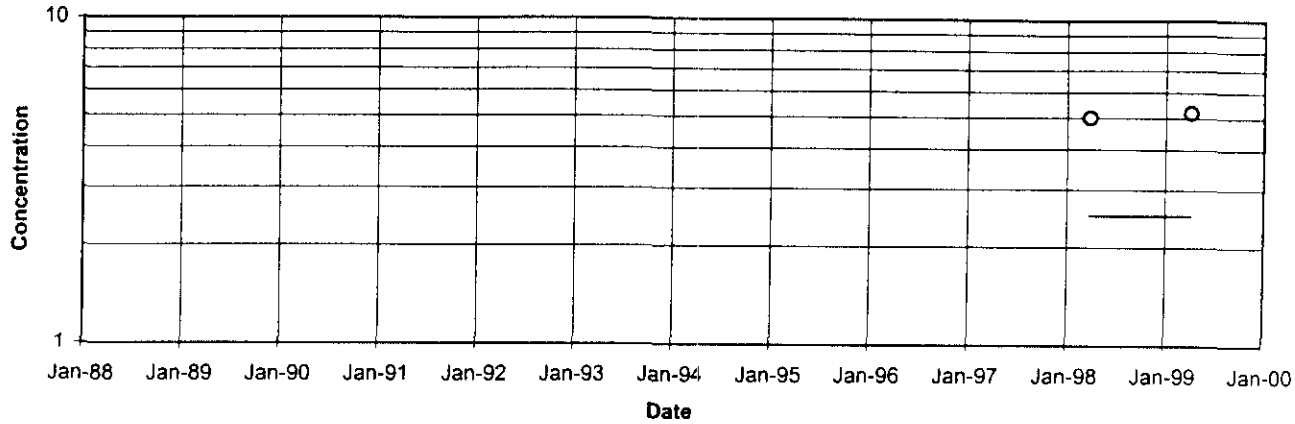
G36



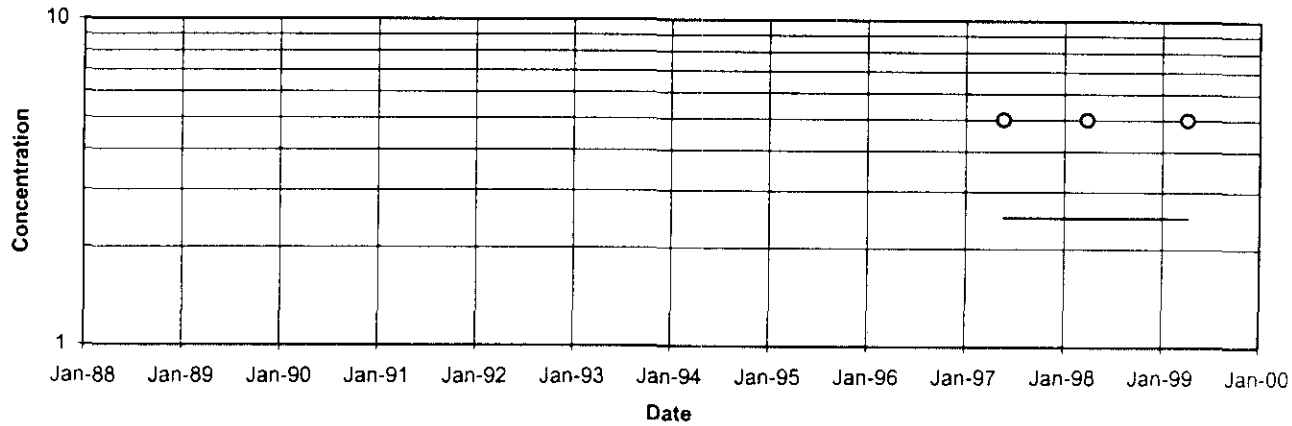
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

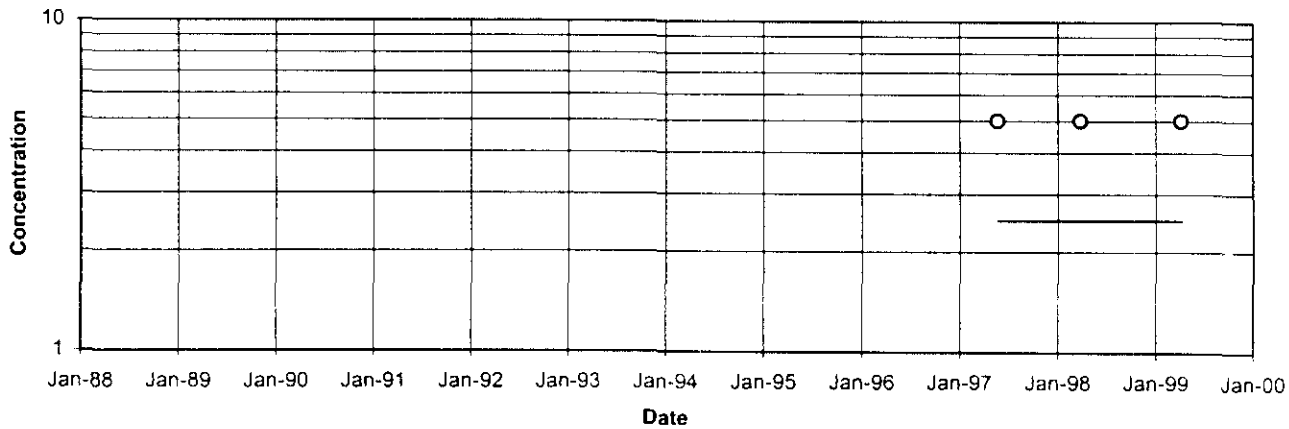
G37D



G37S



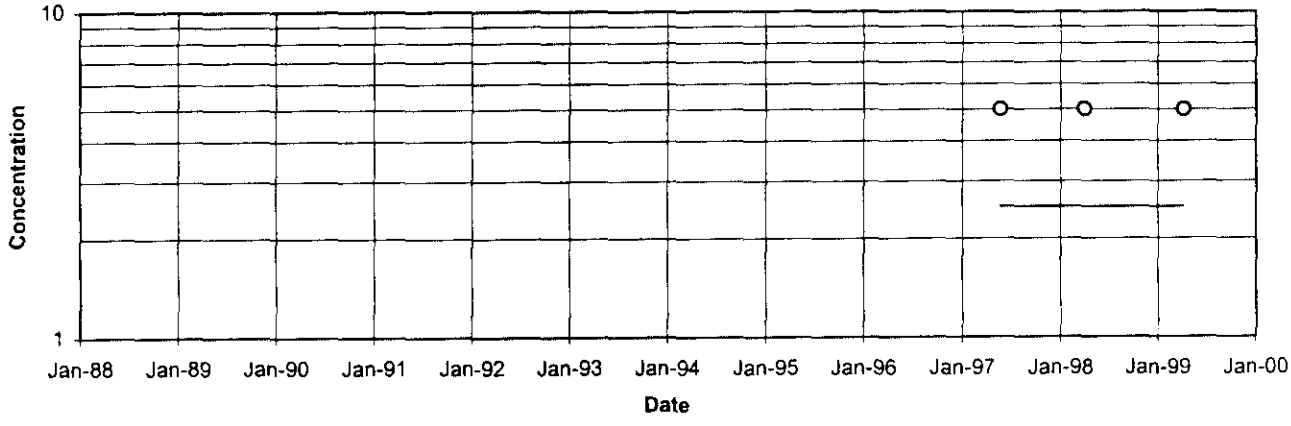
G38



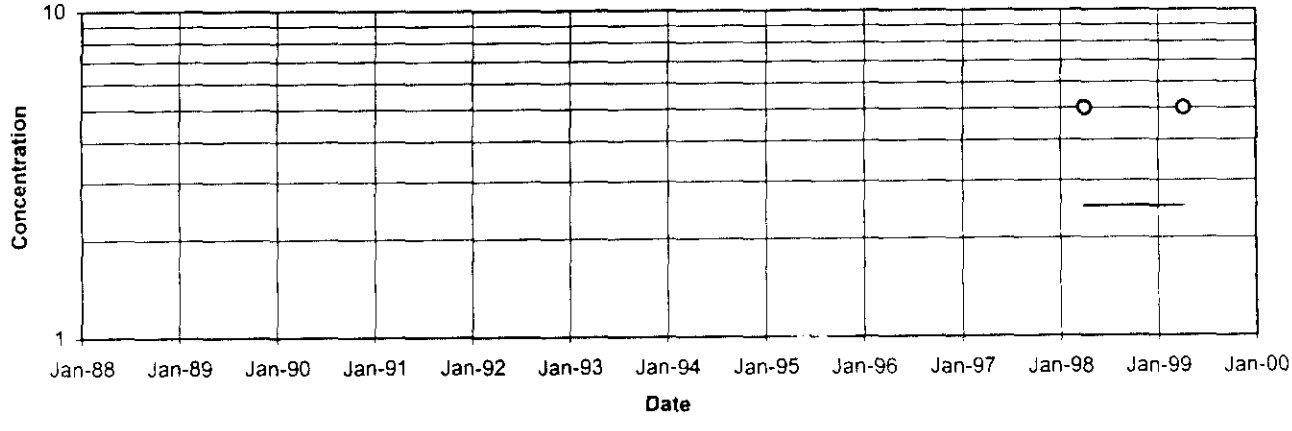
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

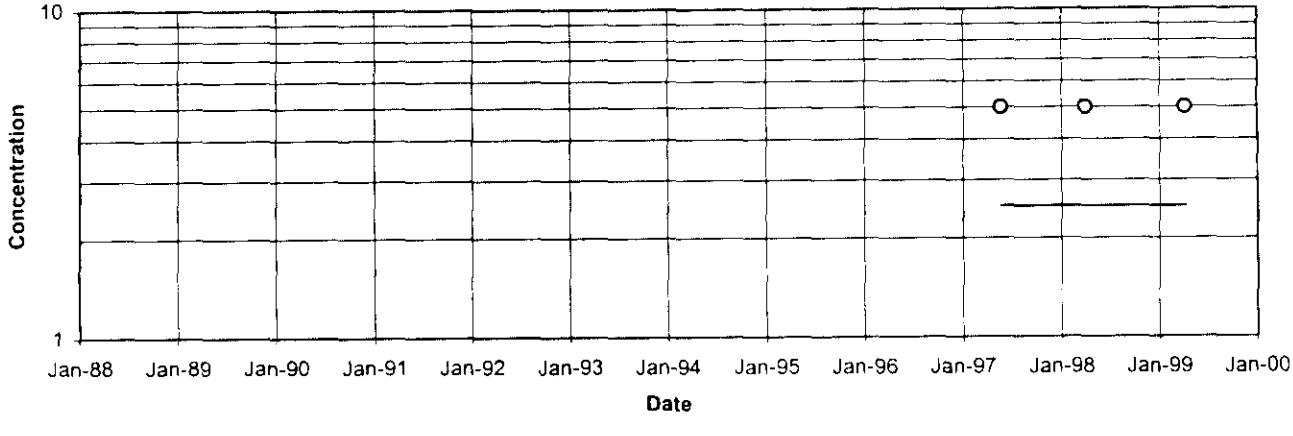
G39



G40



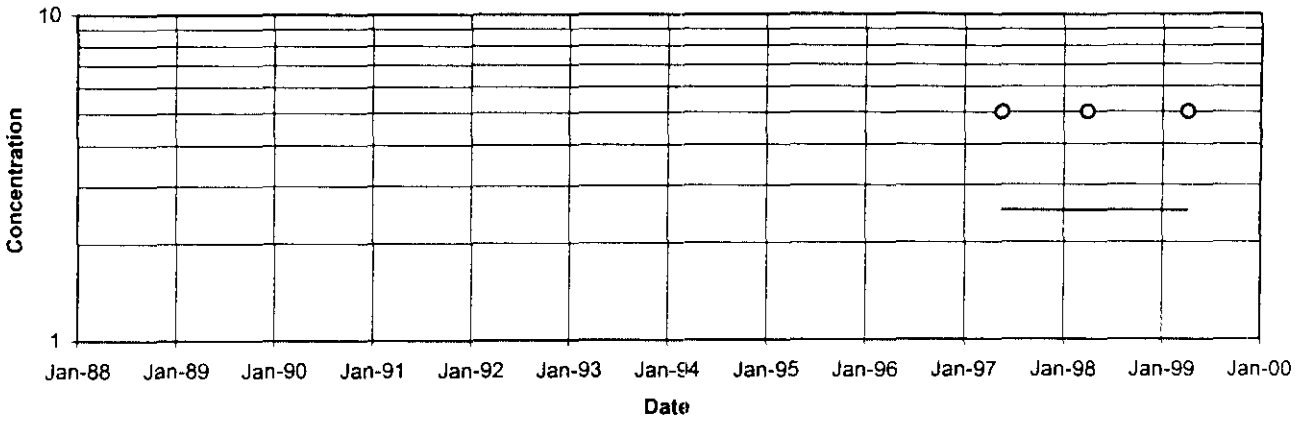
MW106



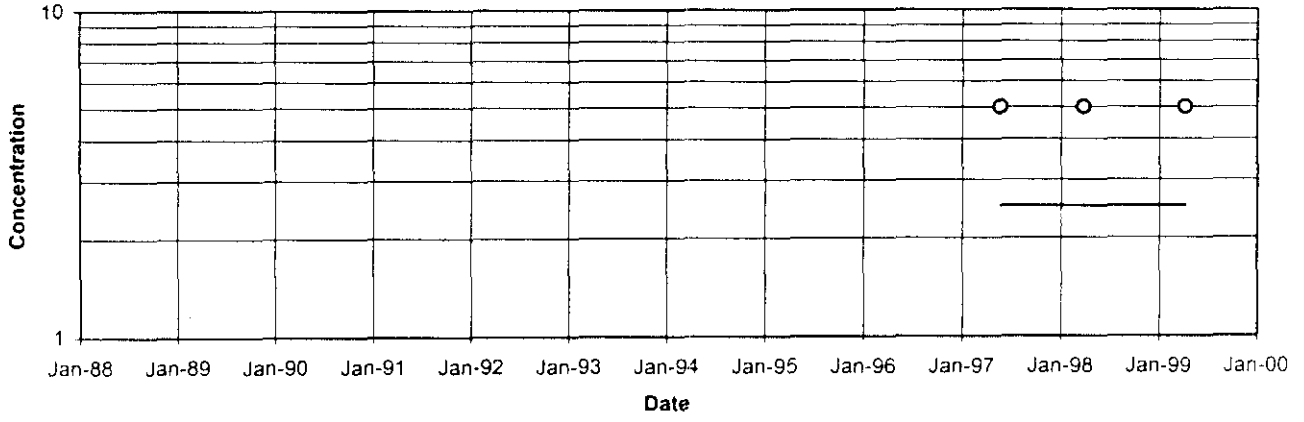
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

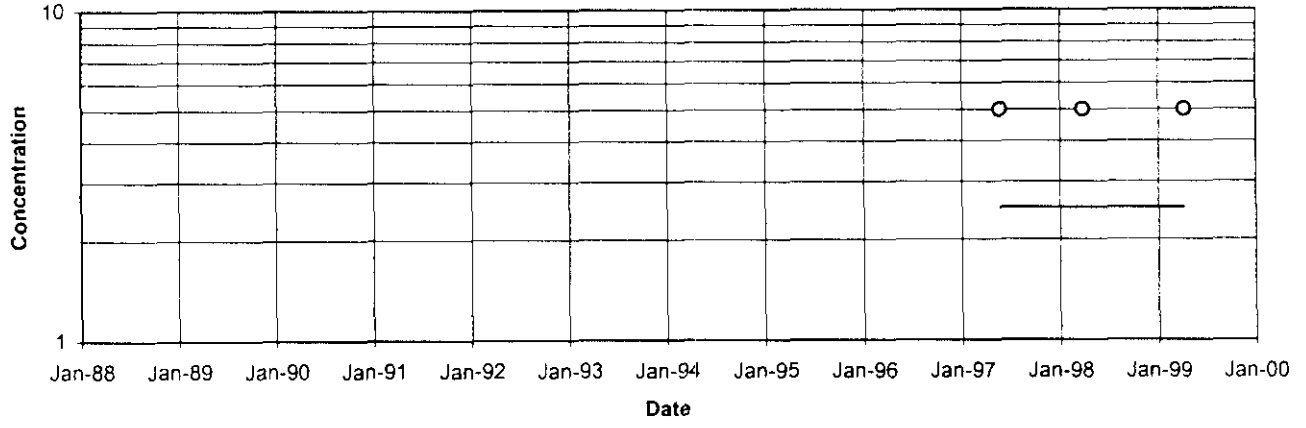
P1



P3R



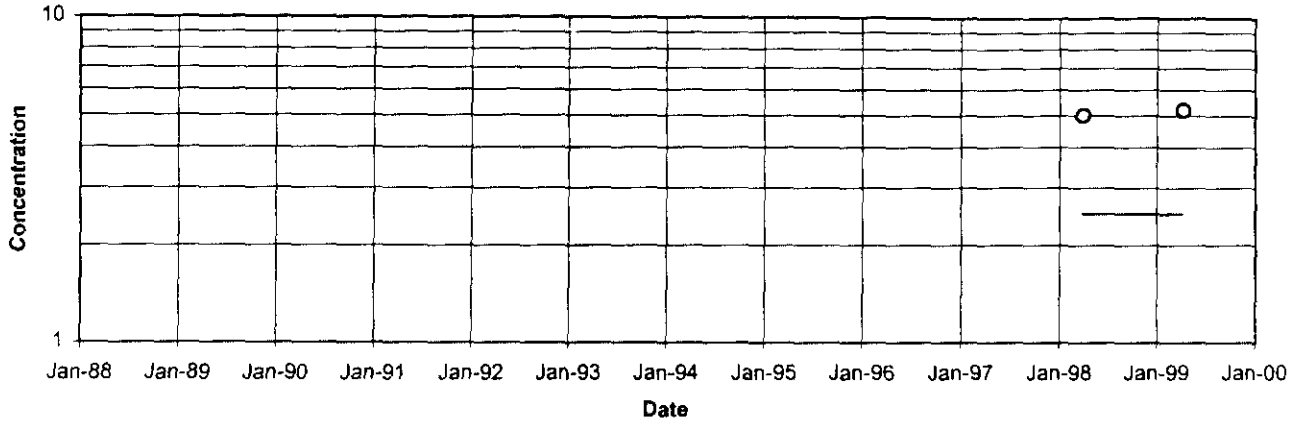
P4R



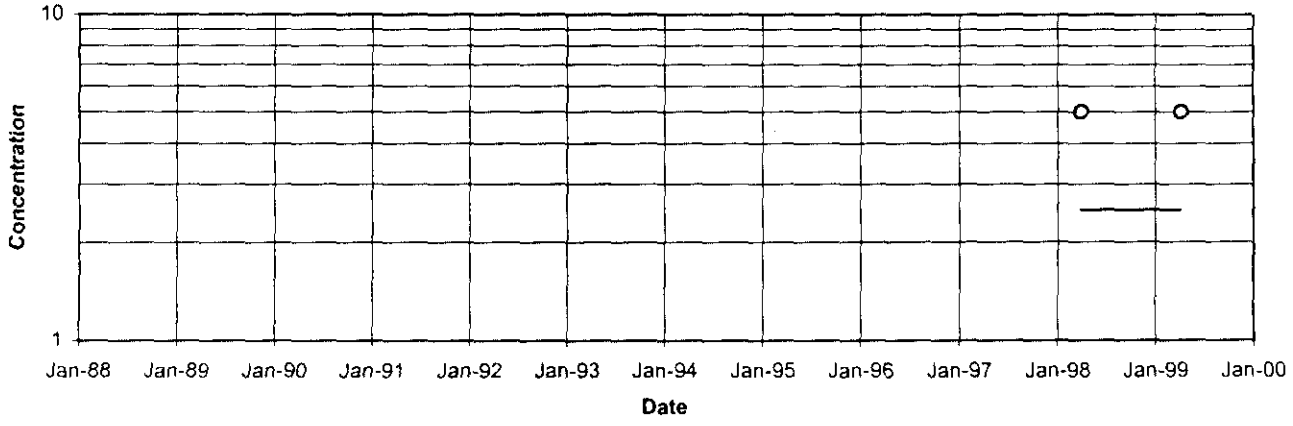
Oil (Hexane soluble or equiv) (mg/L)

AGQS Δ Concentration O NonDetect

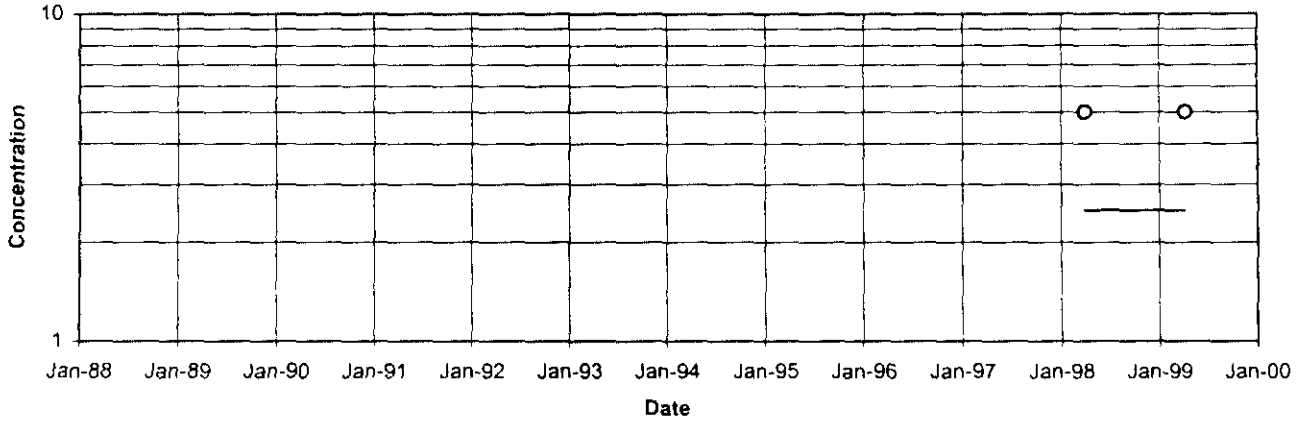
SG1



SG3



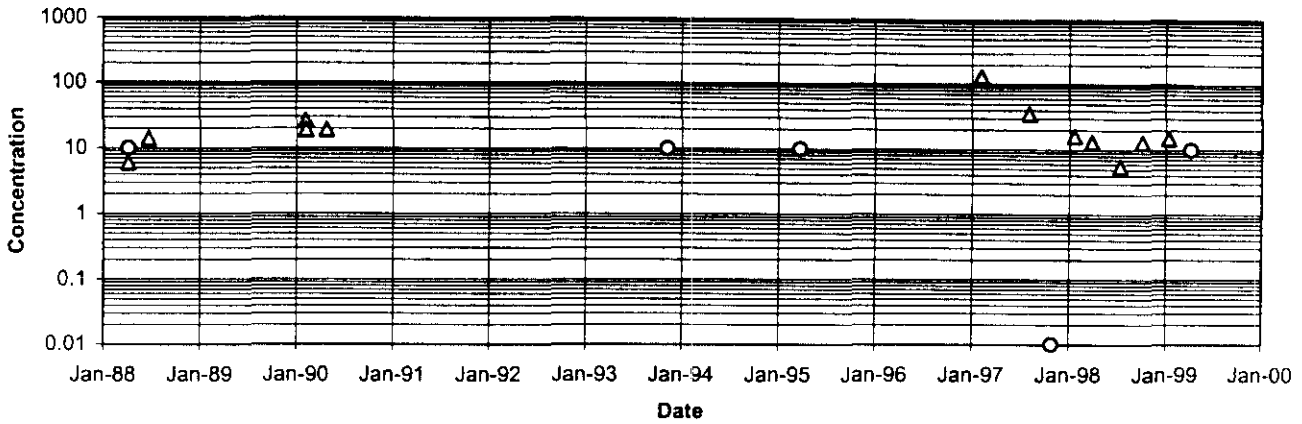
SG4



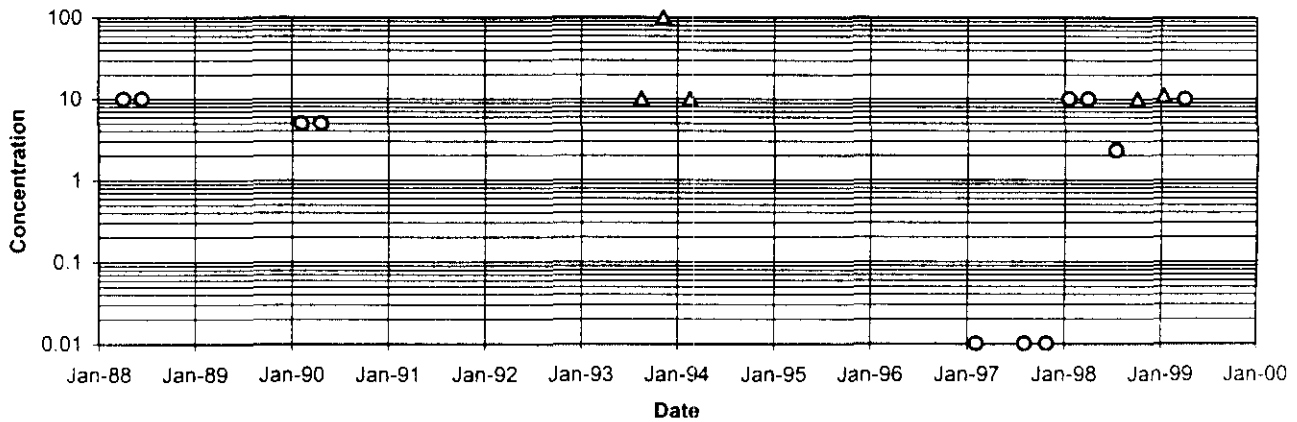
Phenol (ug/L)

AGQS Δ Concentration ○ NonDetect

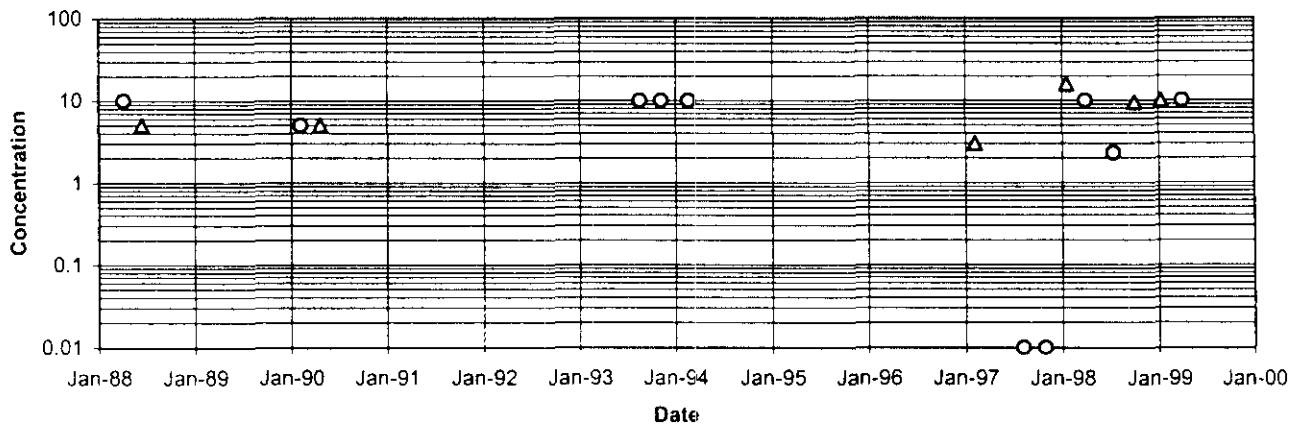
B15R



G109



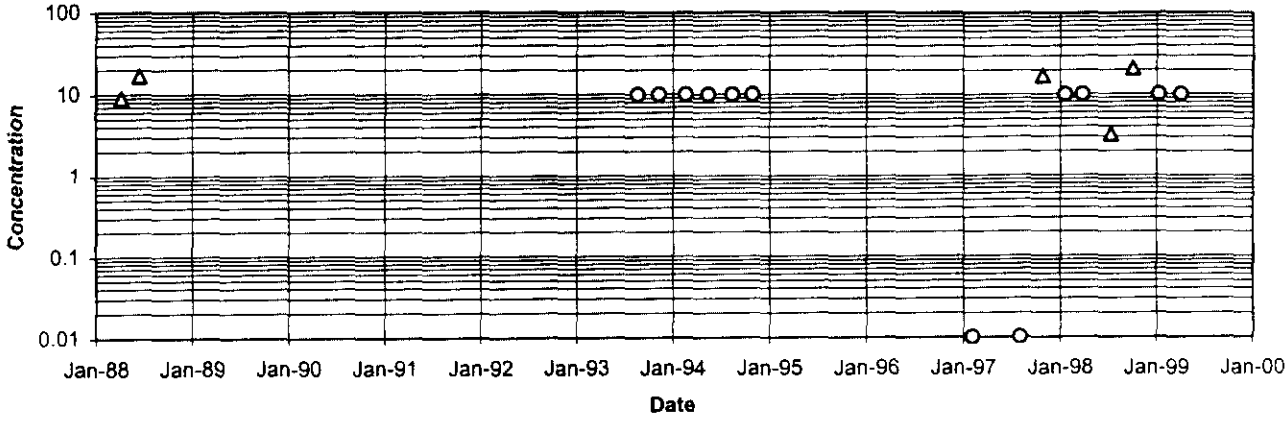
G109A



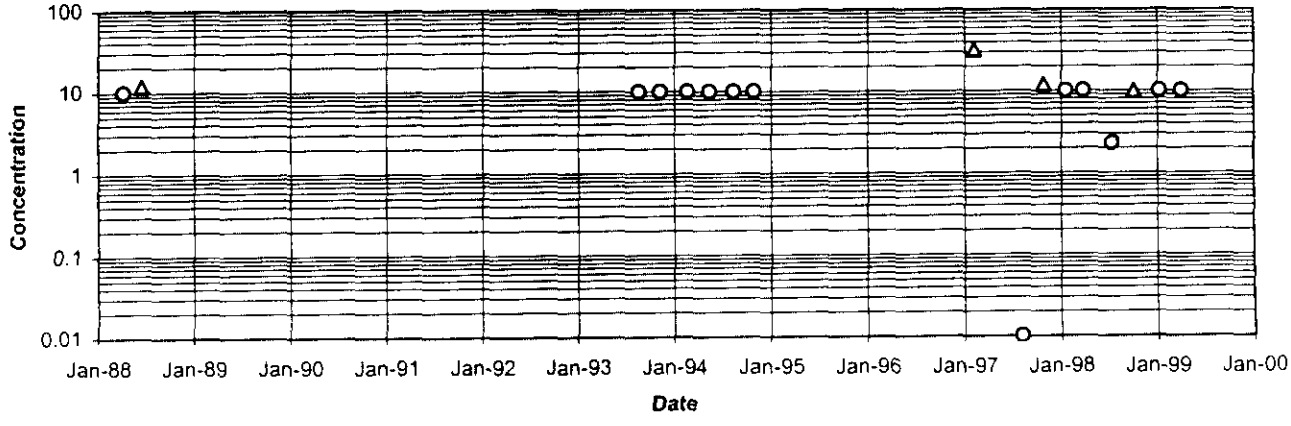
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

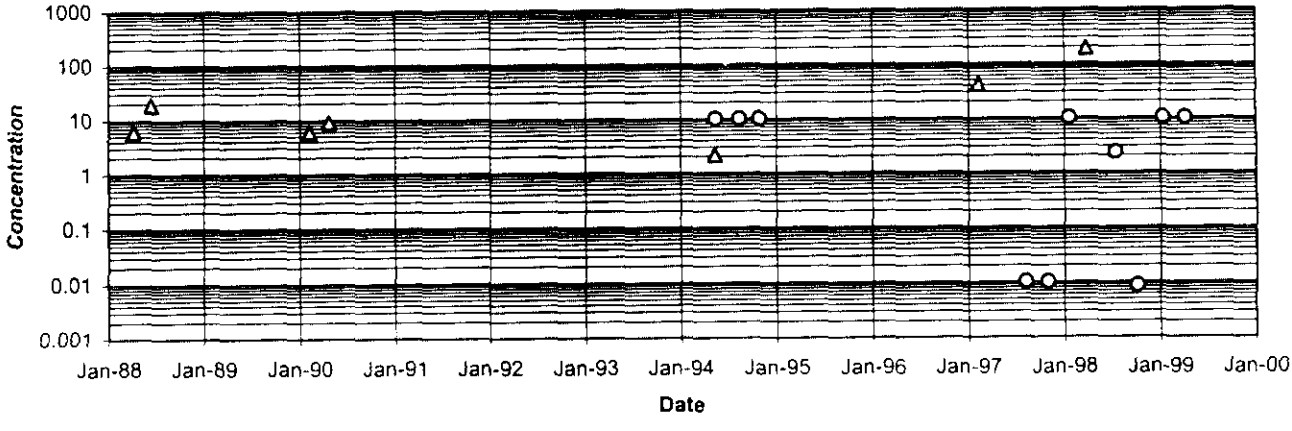
G113



G113A



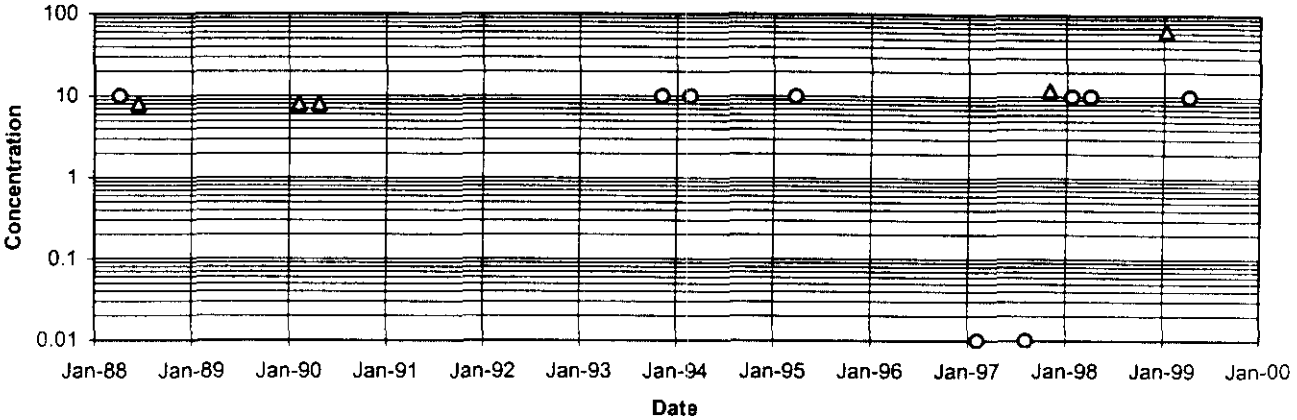
G114



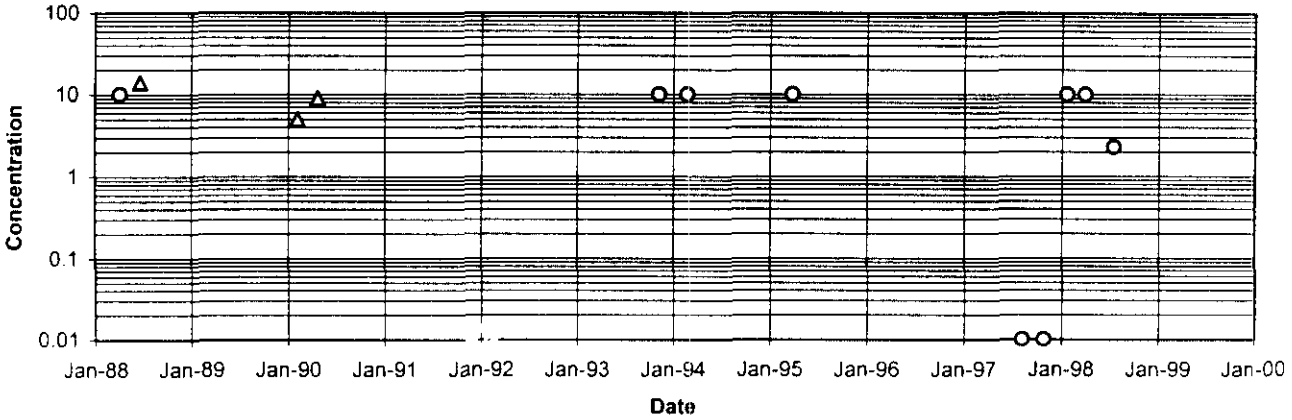
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

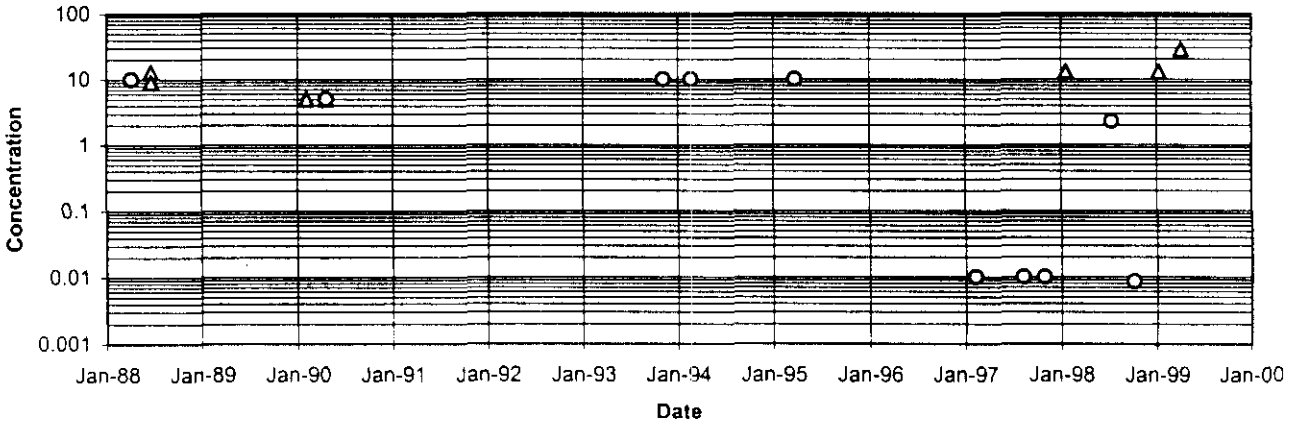
G115



G116



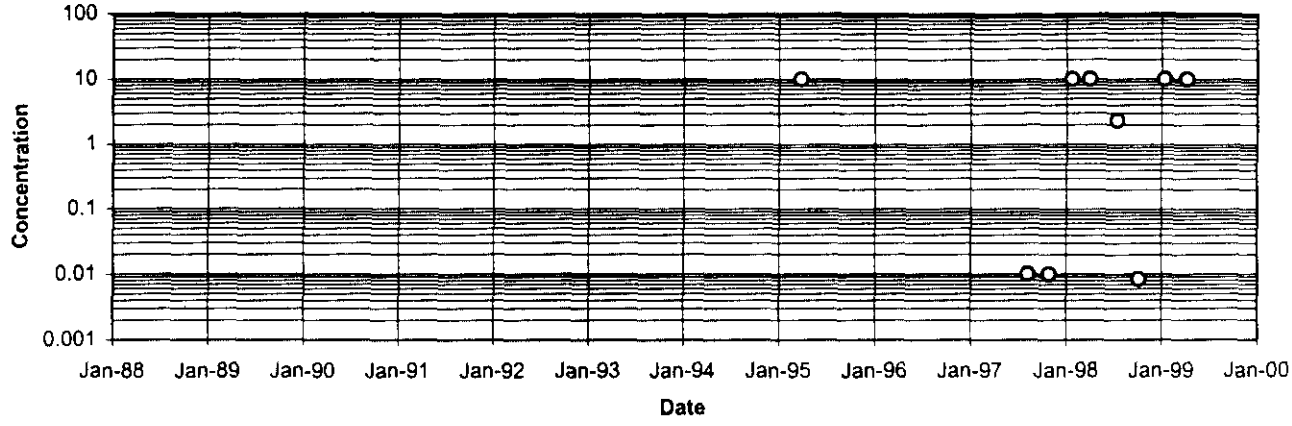
G116A



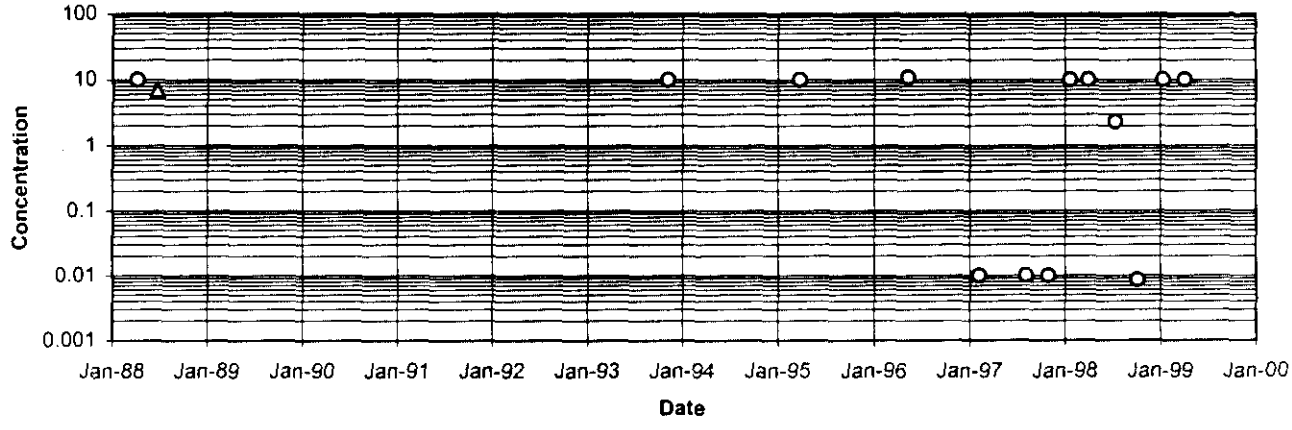
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

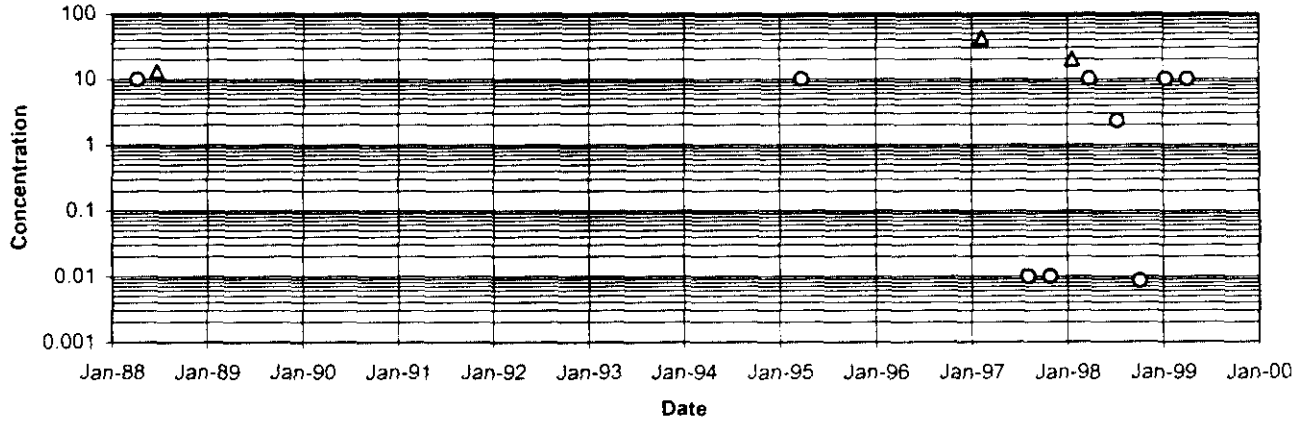
G116D



G117



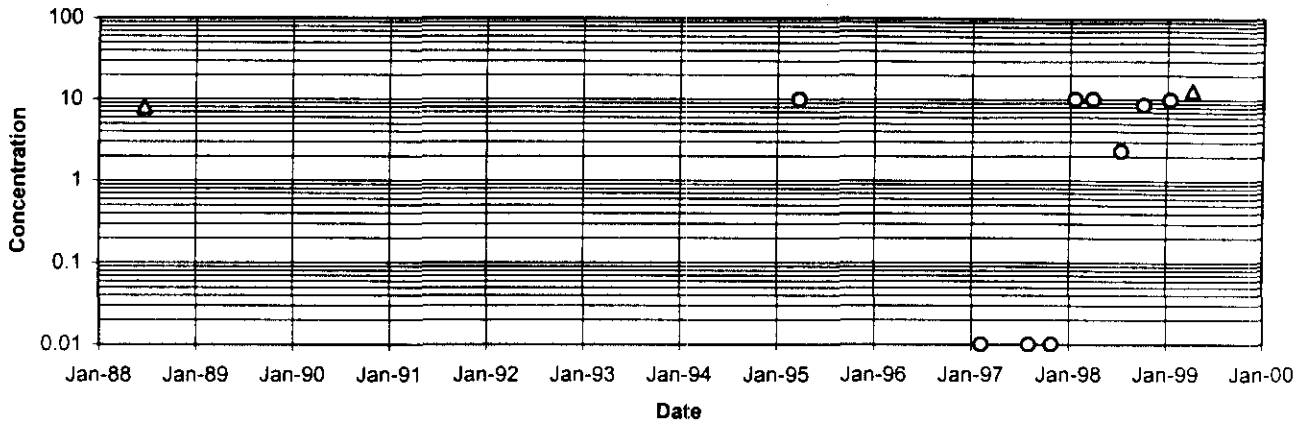
G118A



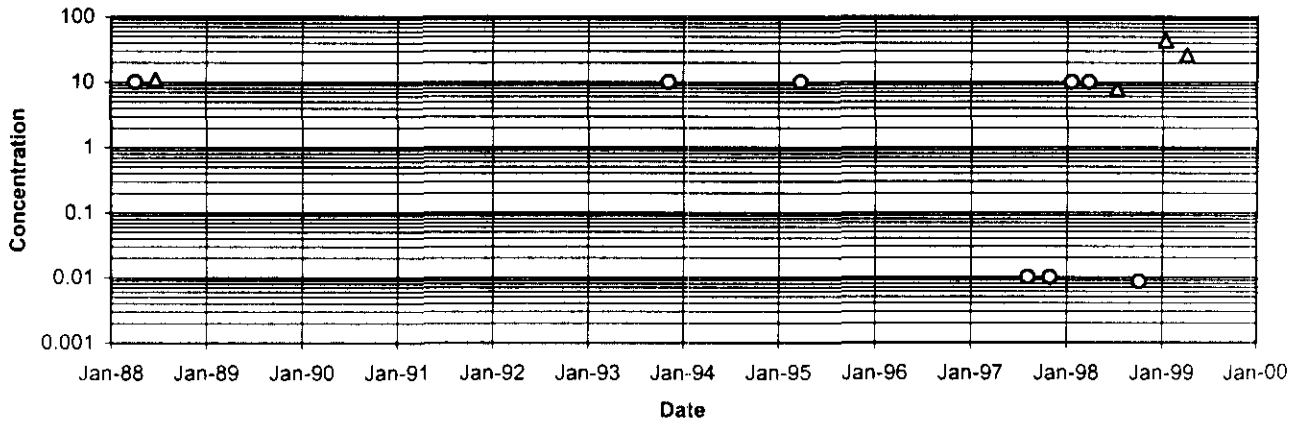
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

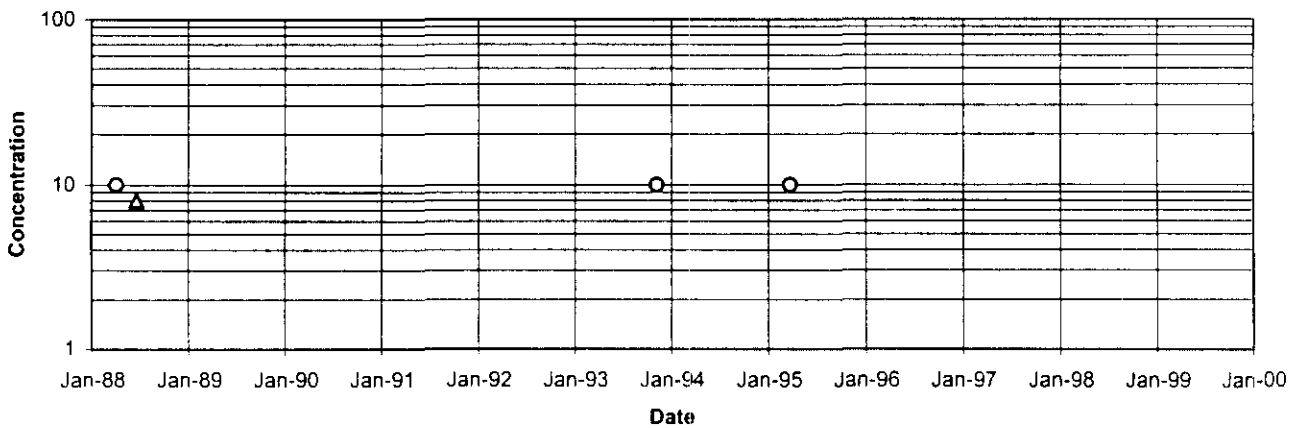
G118R



G119



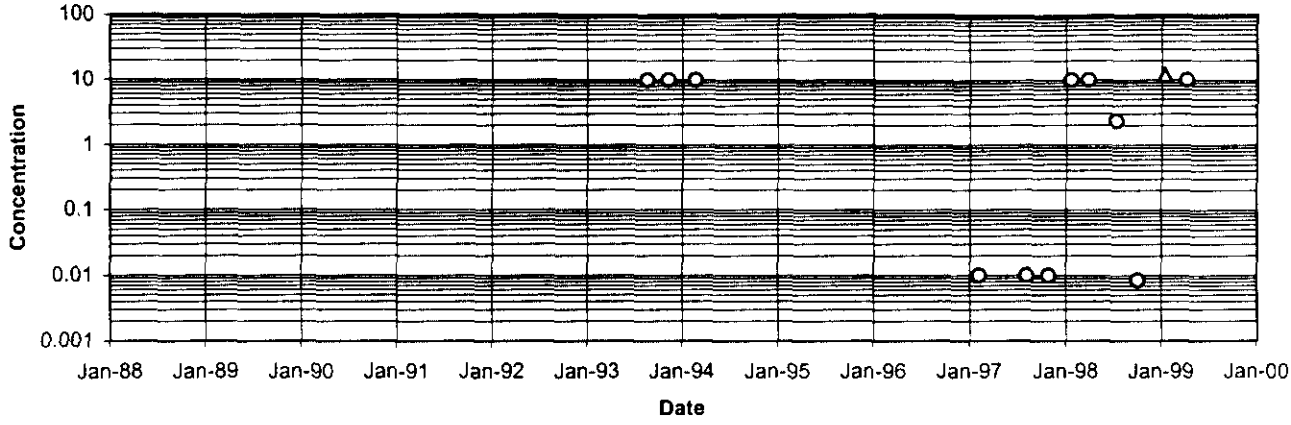
G119A



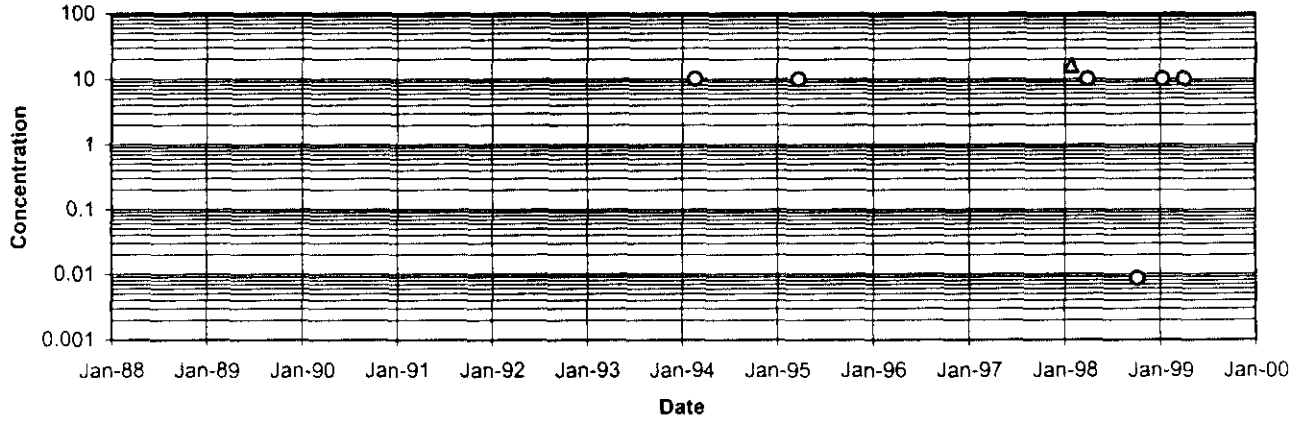
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

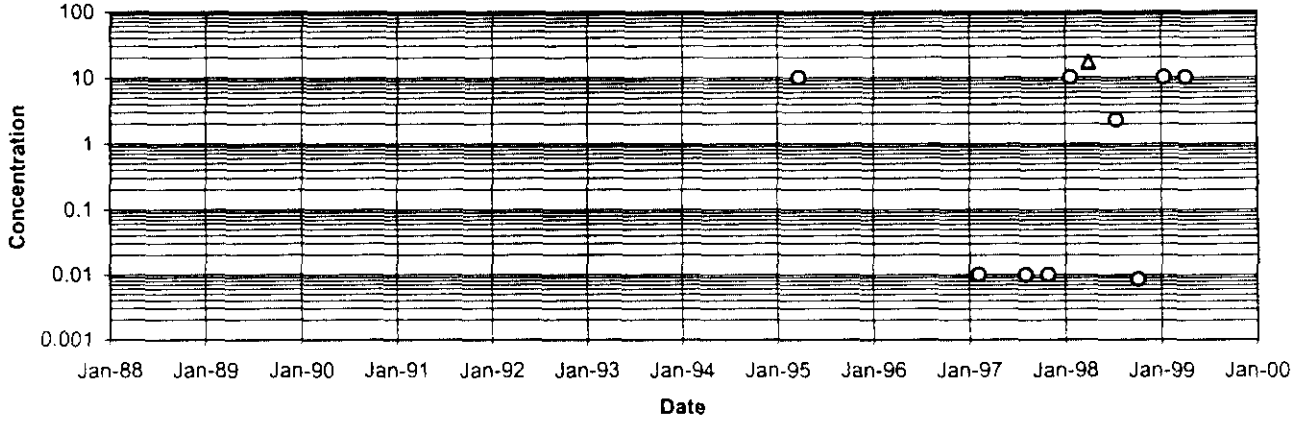
G120B



G130



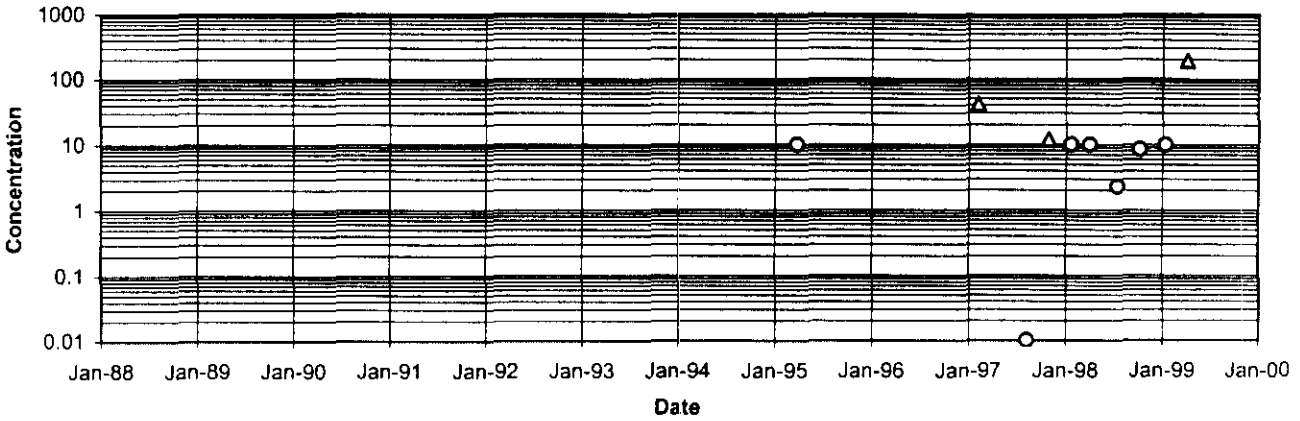
G132



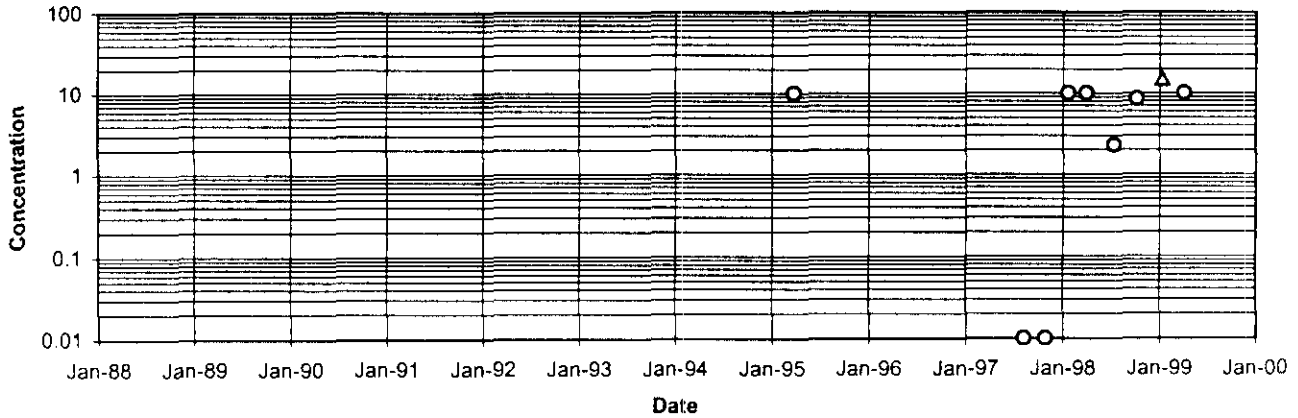
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

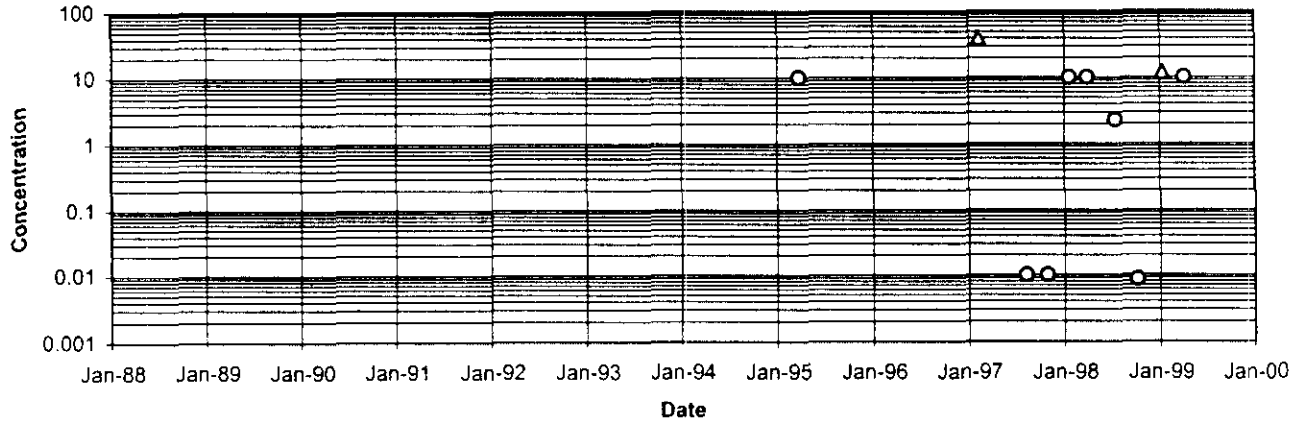
G33D



G33S



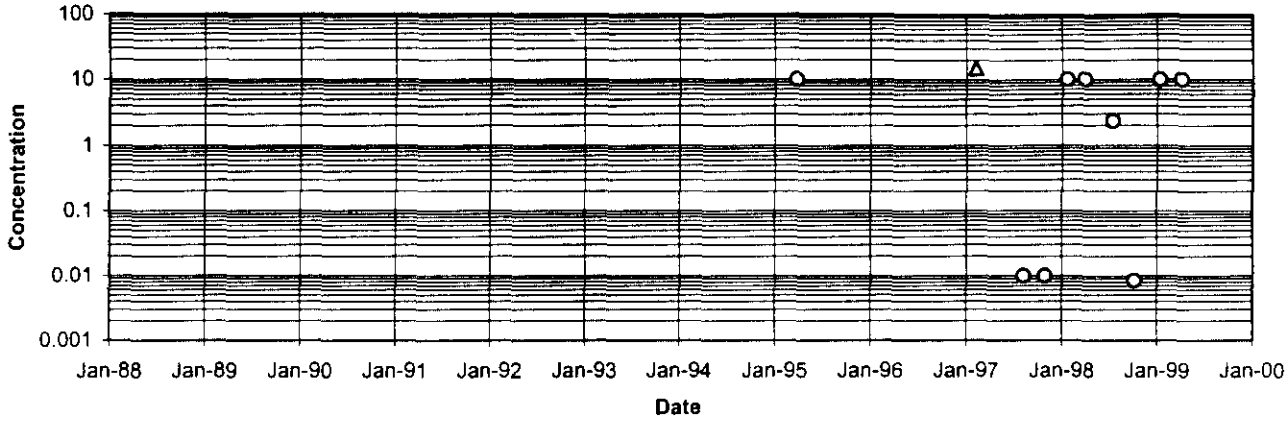
G34D



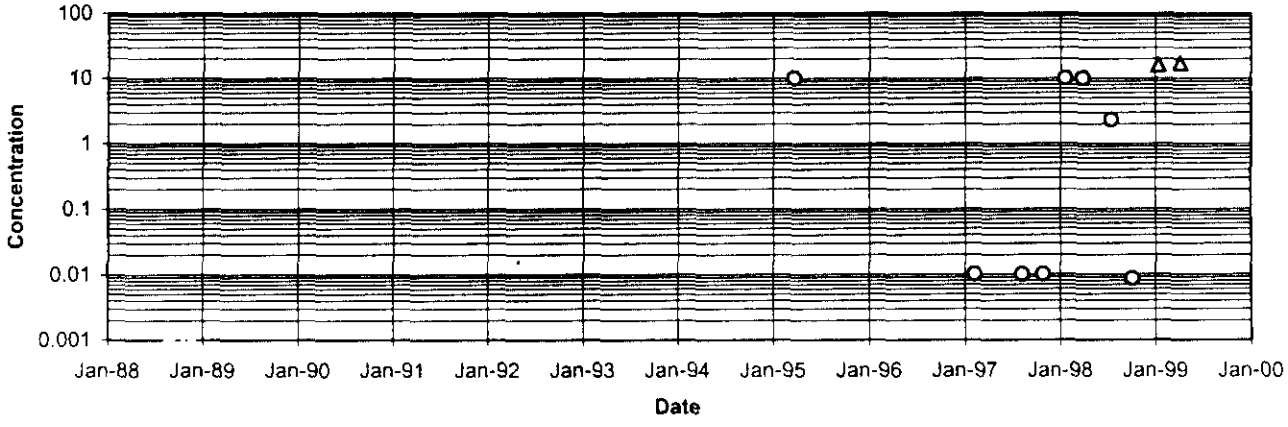
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

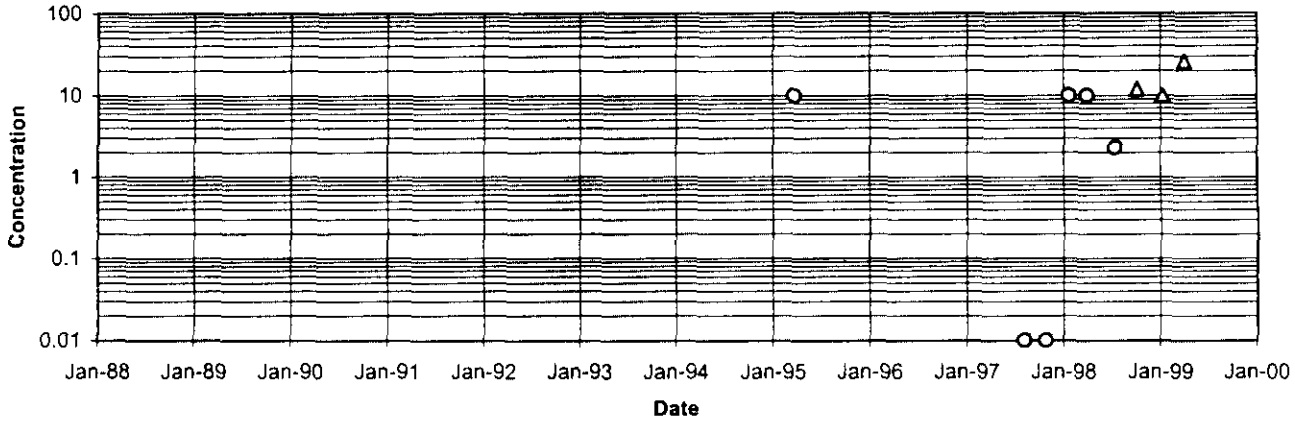
G34S



G35D



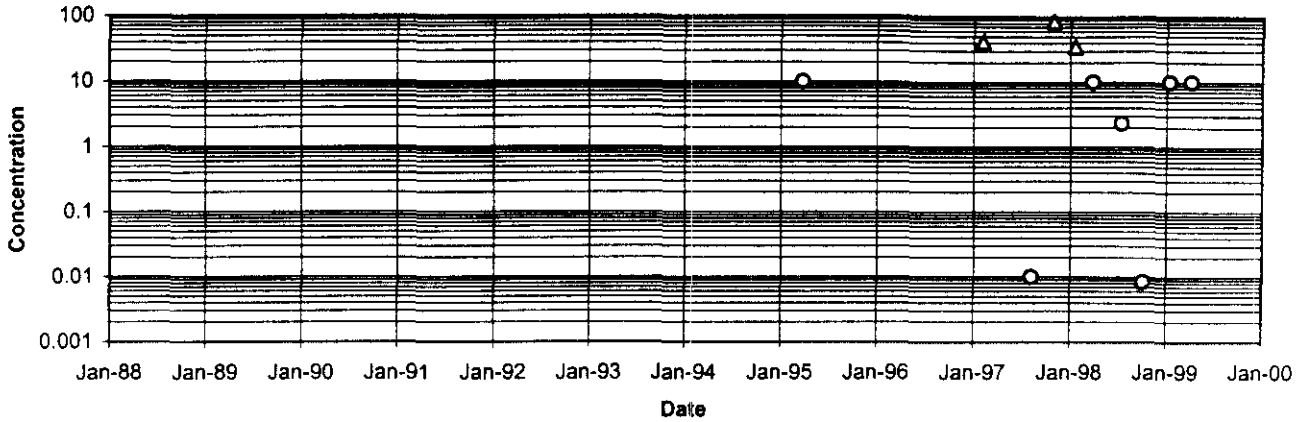
G35S



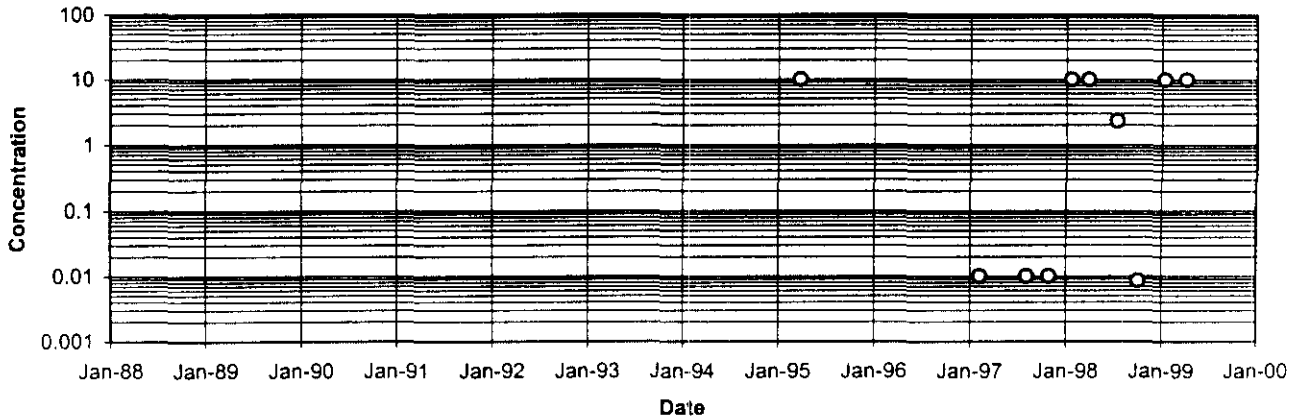
Phenol (ug/L)

AGQS Δ Concentration ○ NonDetect

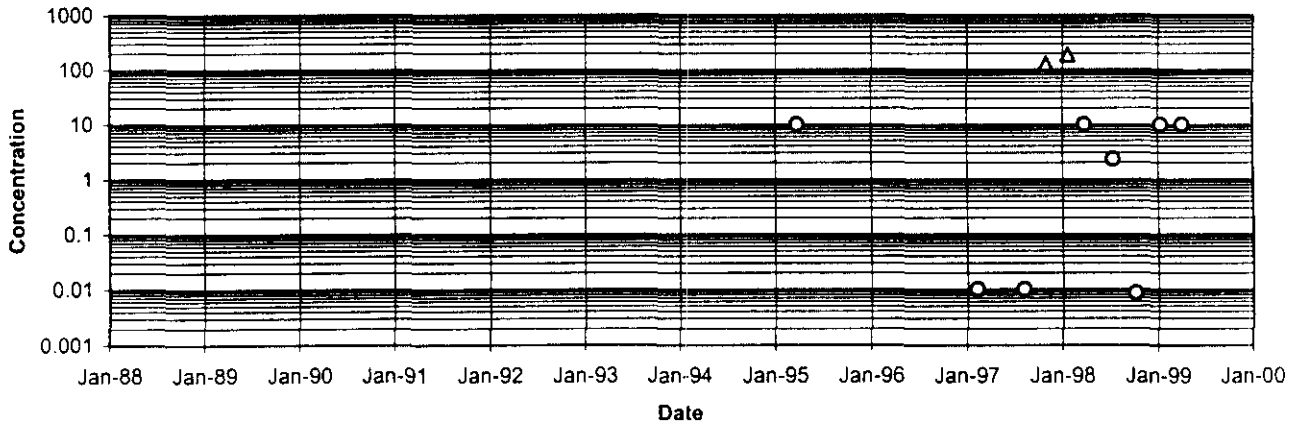
G36



G37D



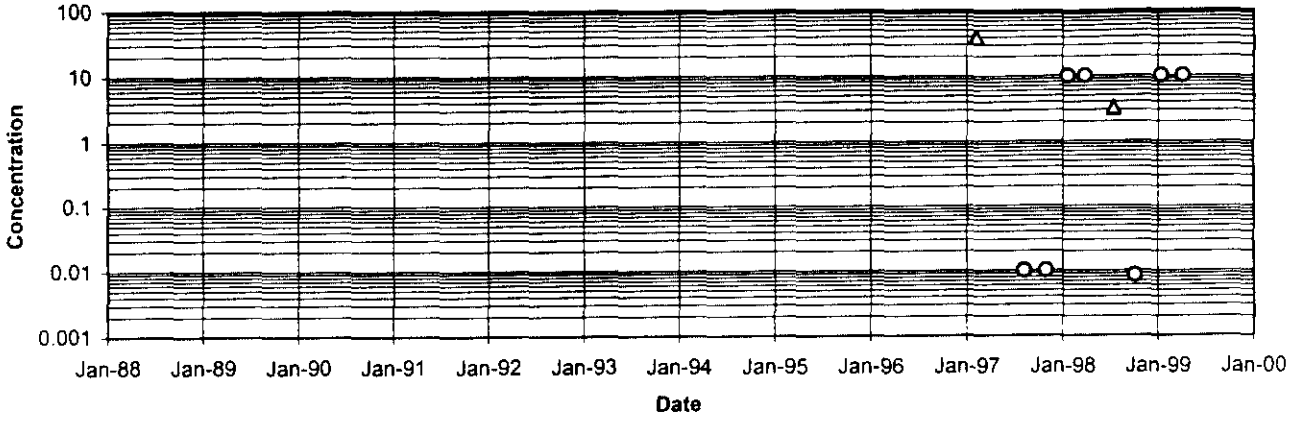
G37S



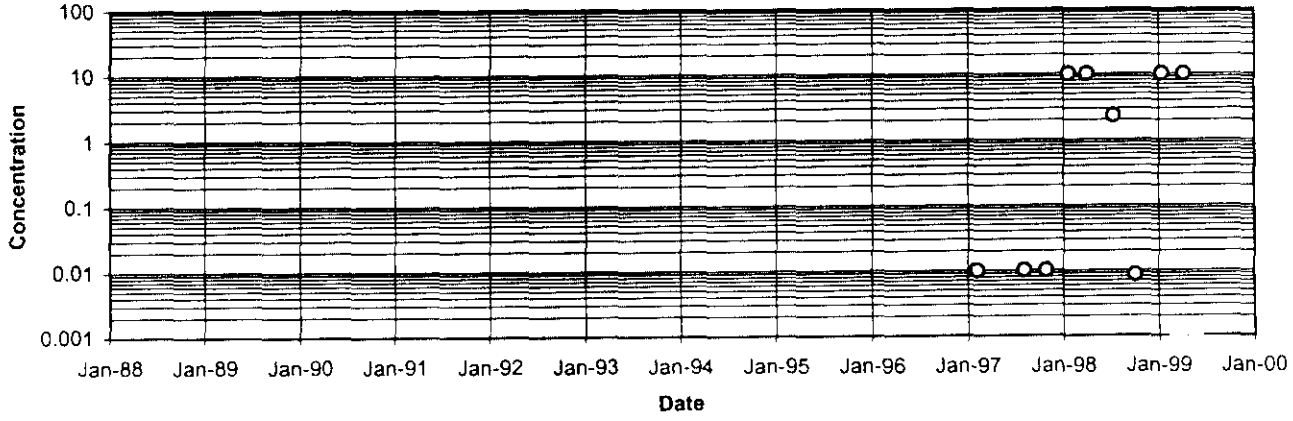
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

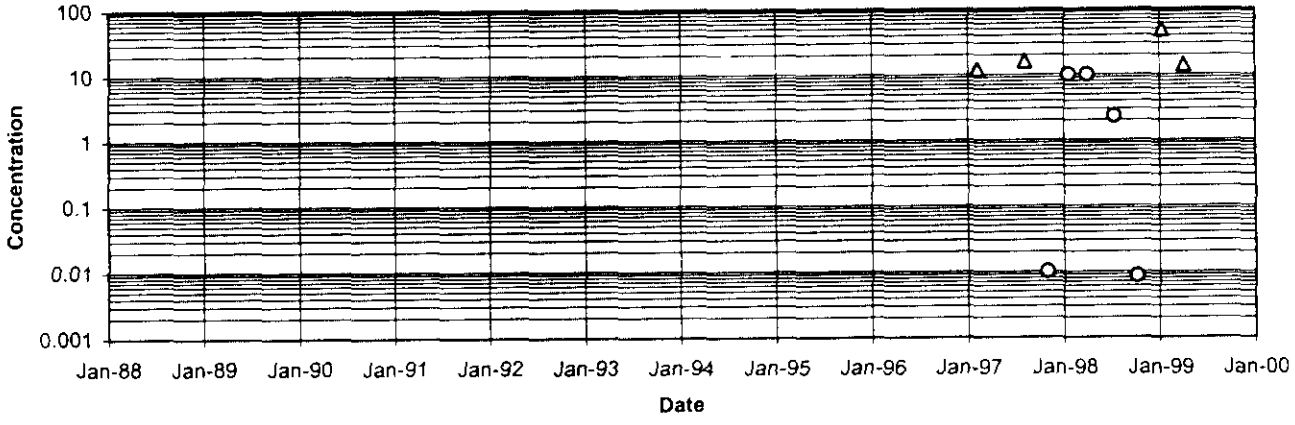
G38



G39



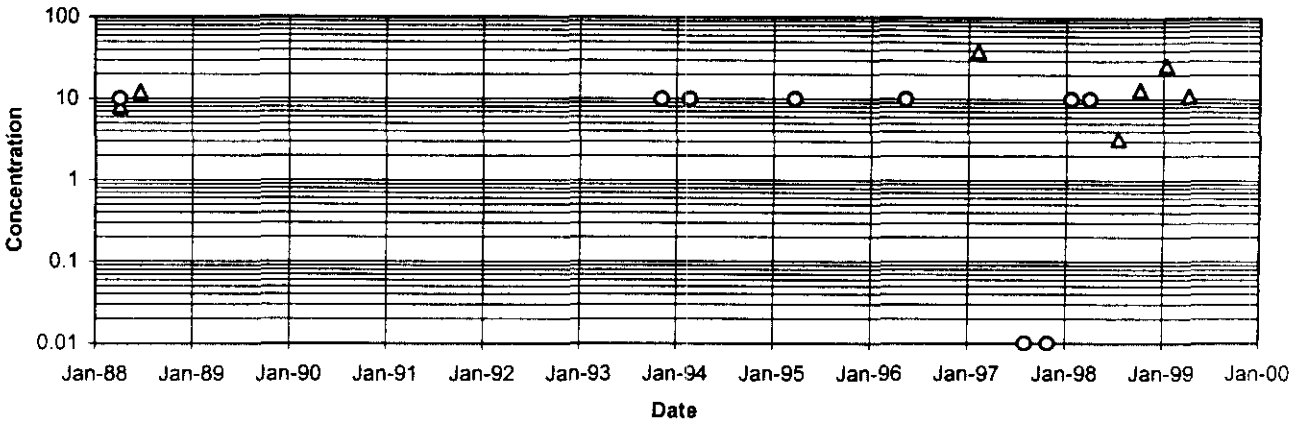
G40



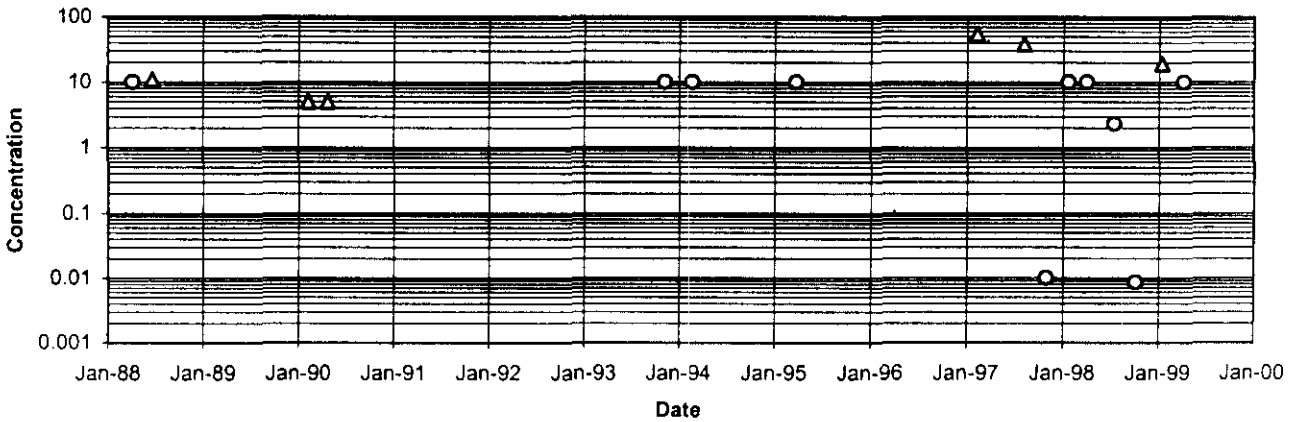
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

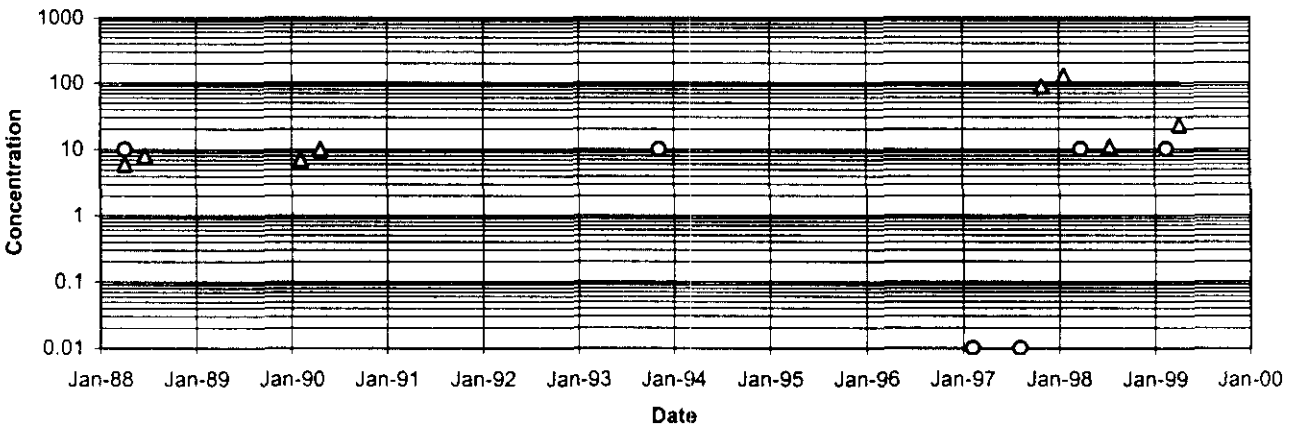
MW106



P1



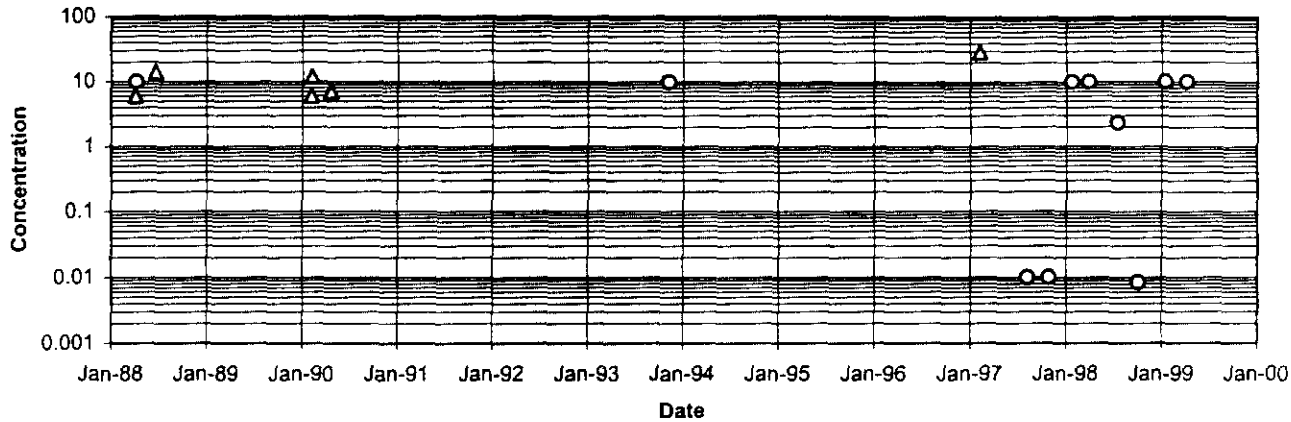
P3R



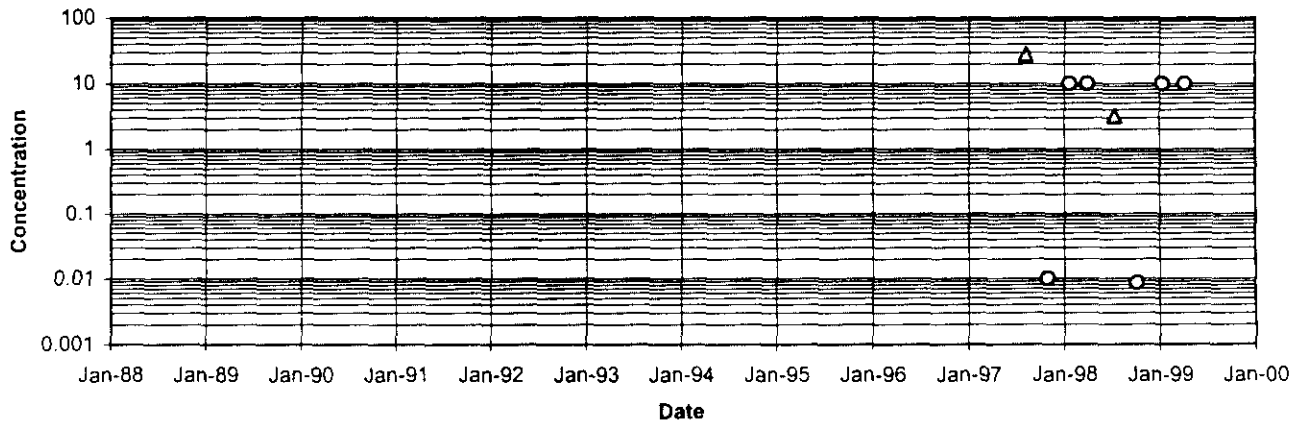
Phenol (ug/L)

AGQS Δ Concentration O NonDetect

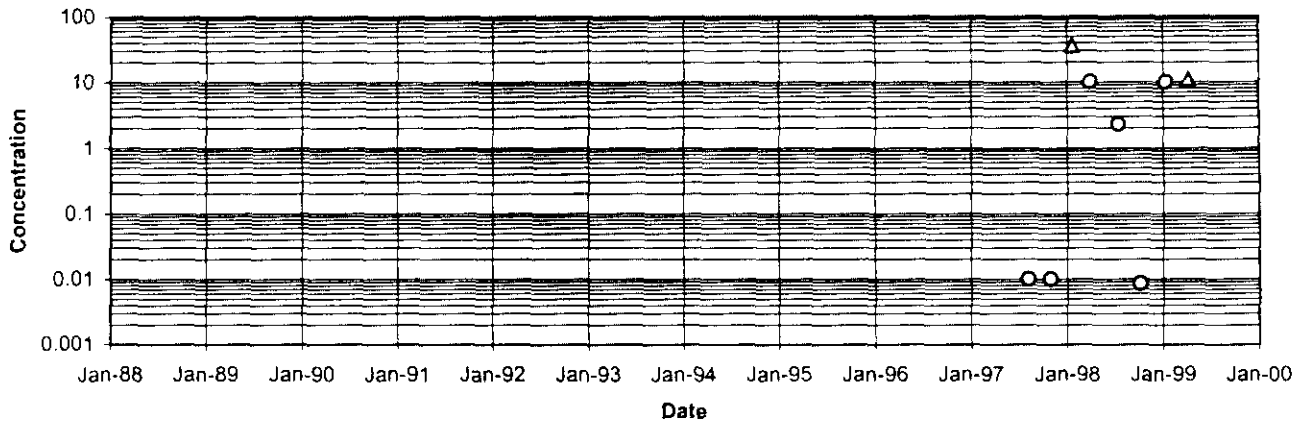
P4R

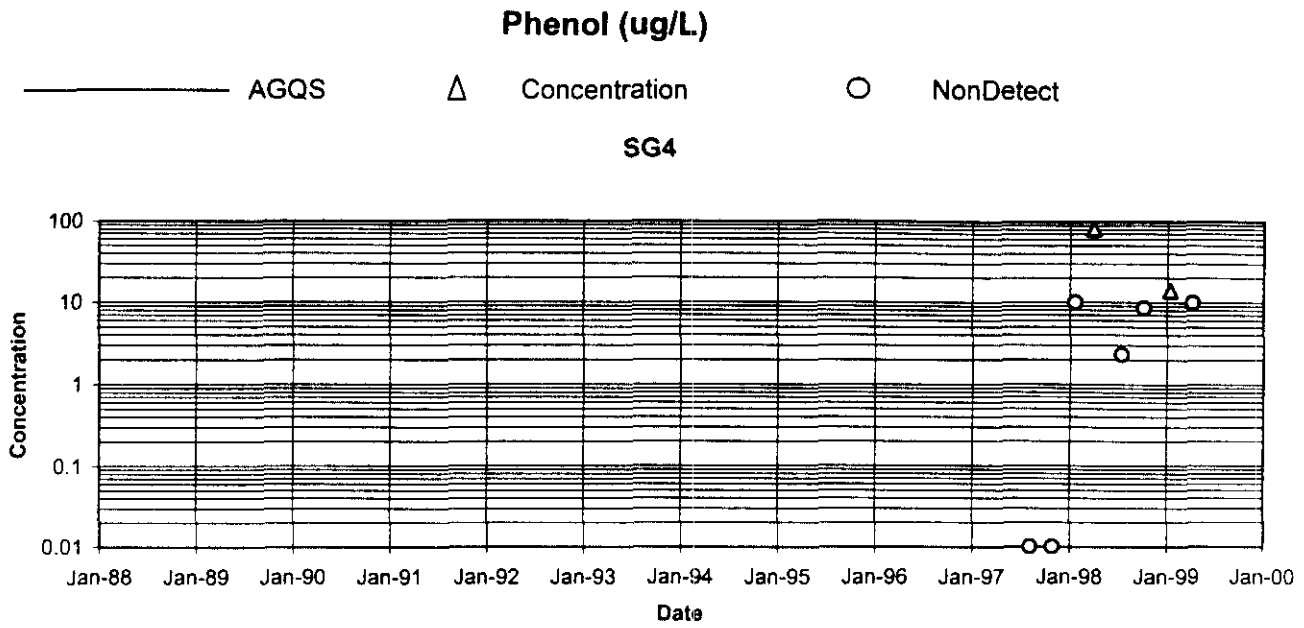


SG1



SG3

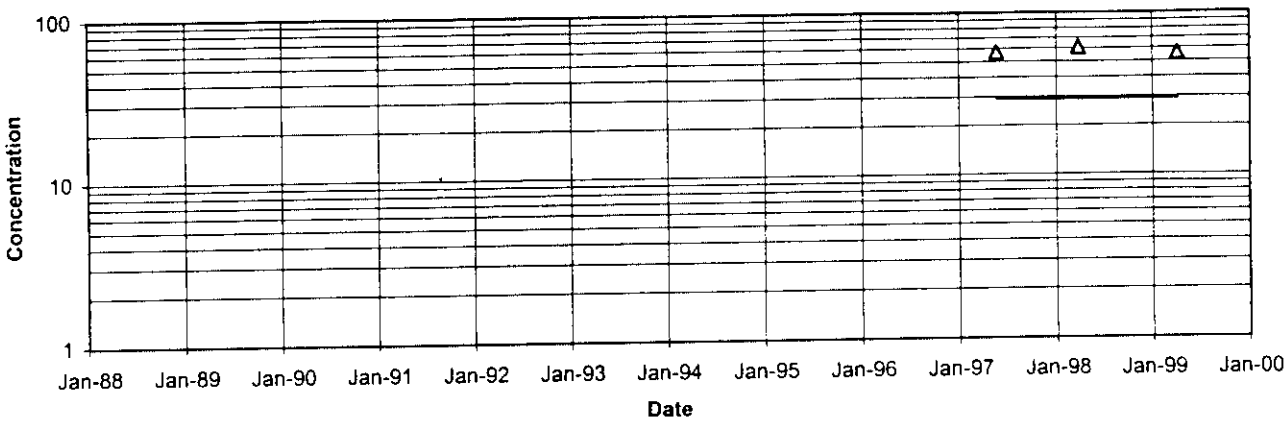



Phenol (ug/L.)
AGQS
Concentration
NonDetect
SG4
100
10
1
0.1
0.01
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

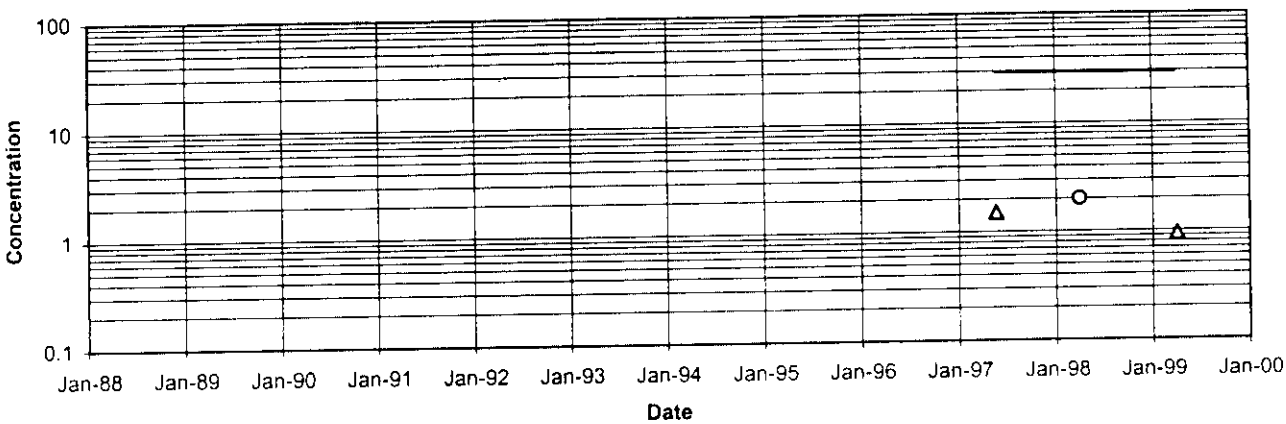
Potassium (mg/L)

AGQS Δ Concentration ○ NonDetect

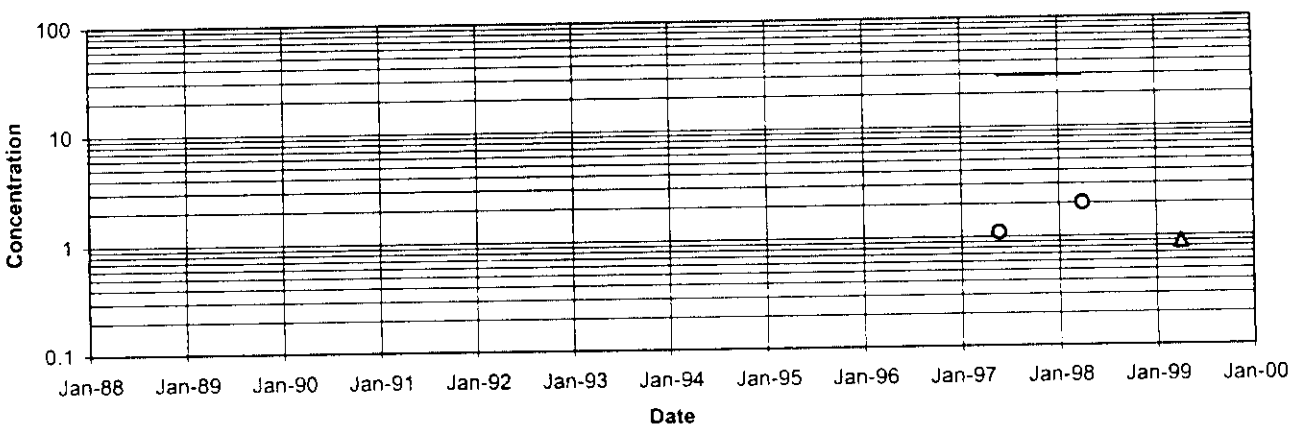
B15R



G109



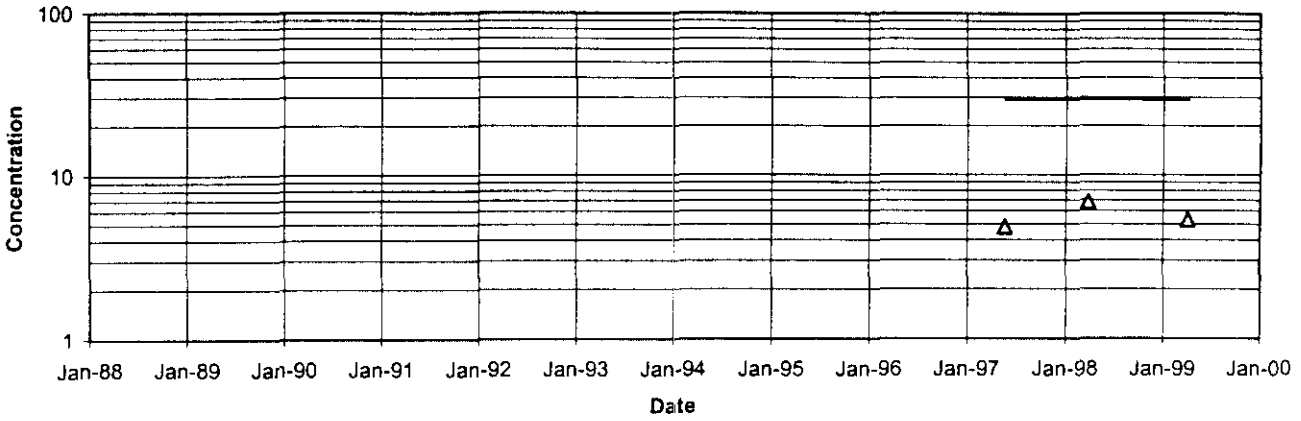
G109A



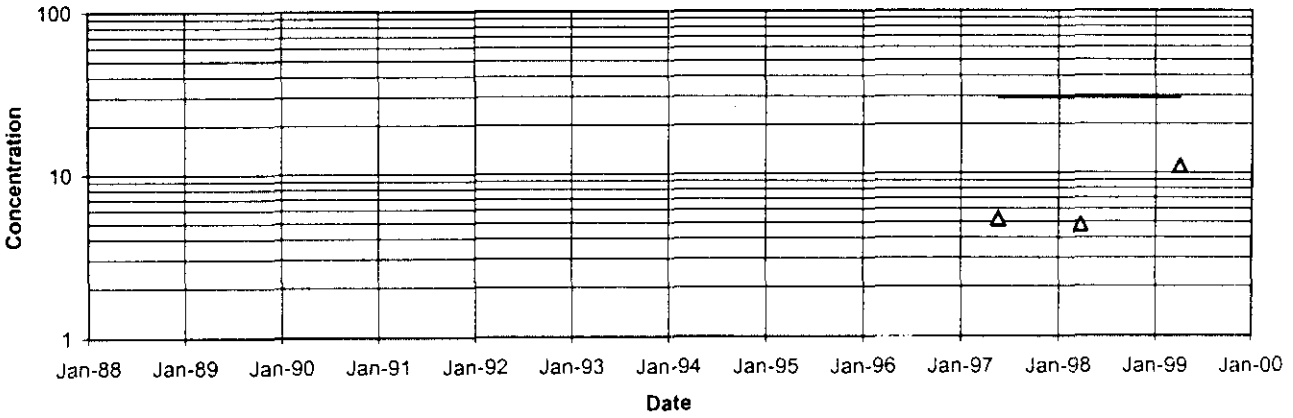
Potassium (mg/L)

AGQS Δ Concentration ○ NonDetect

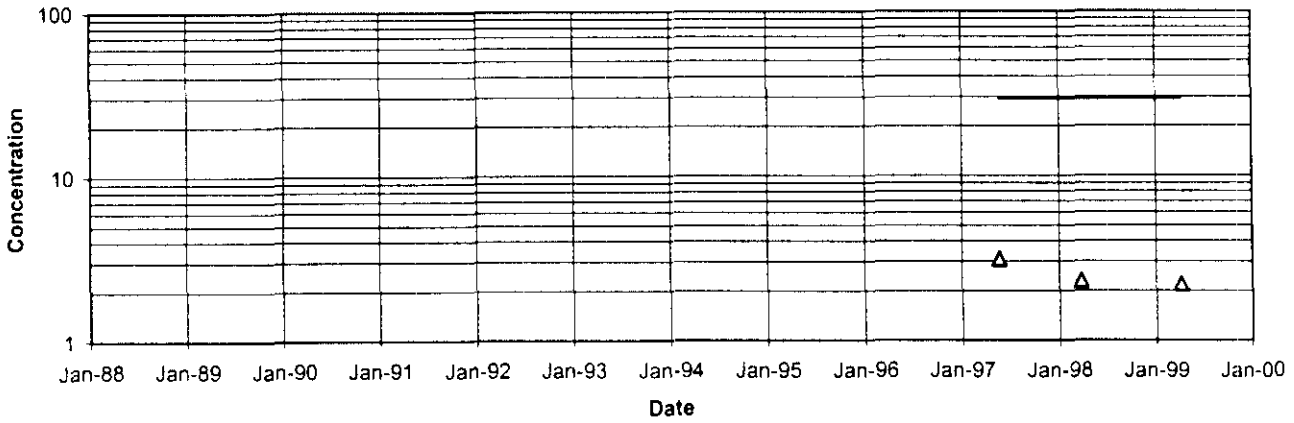
G113



G113A



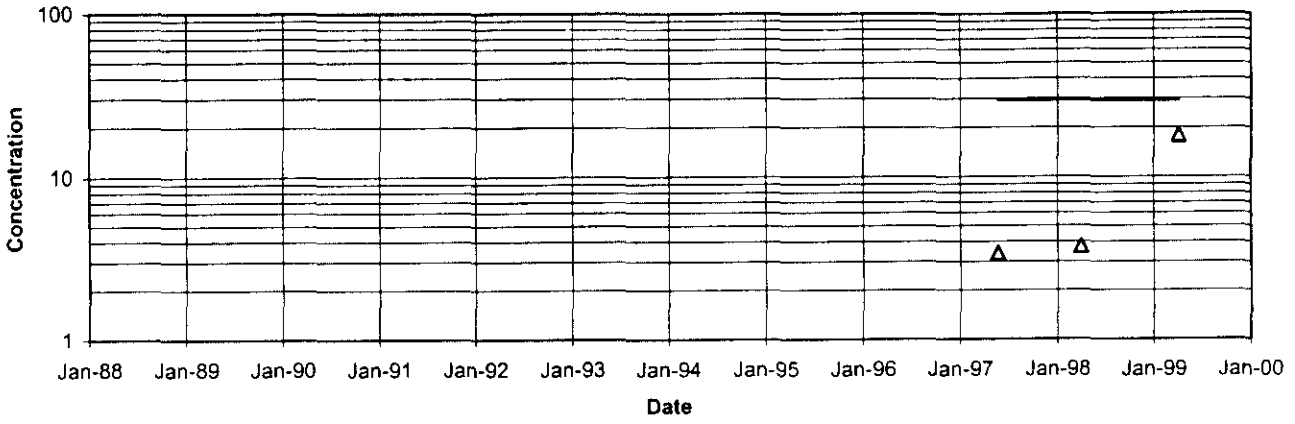
G114



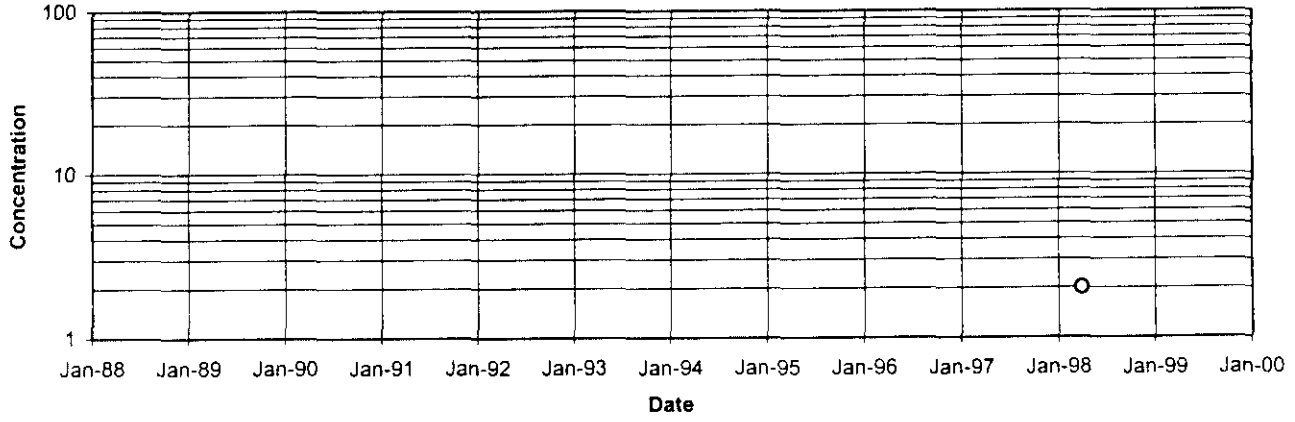
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

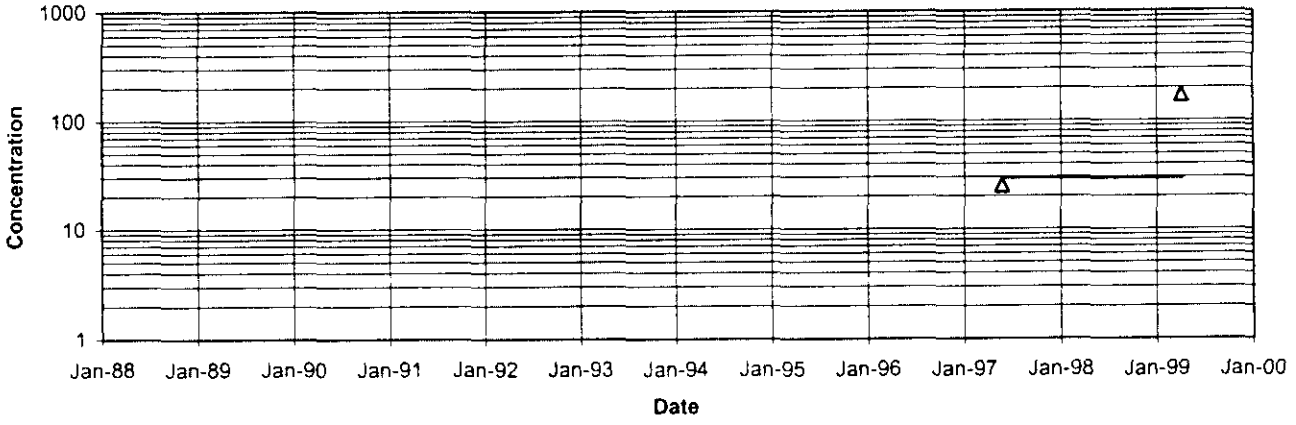
G115



G116



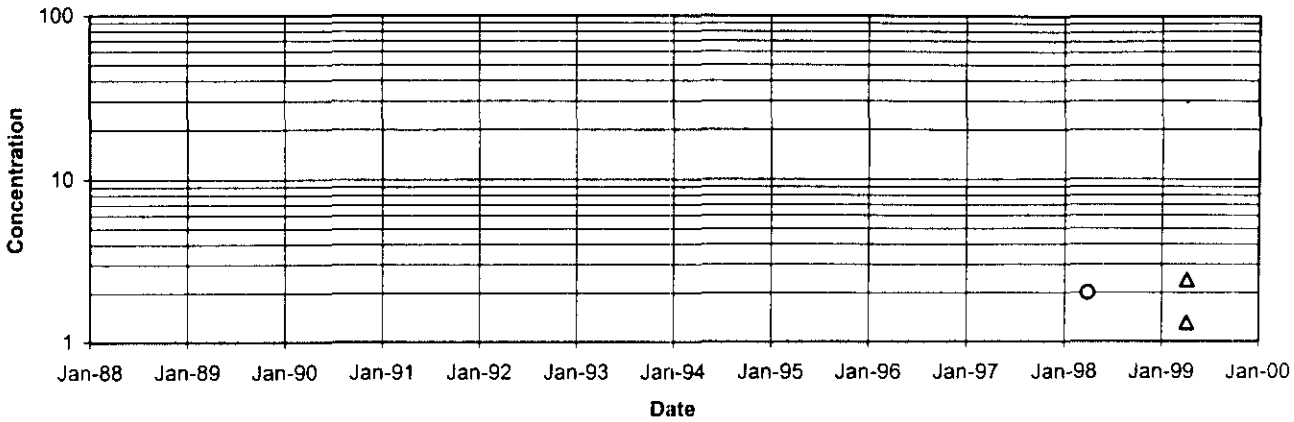
G116A



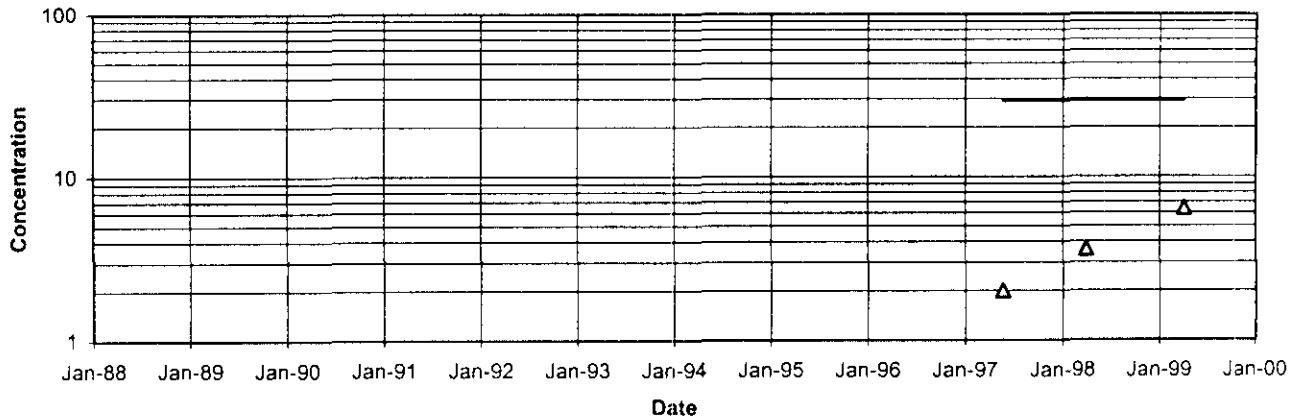
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

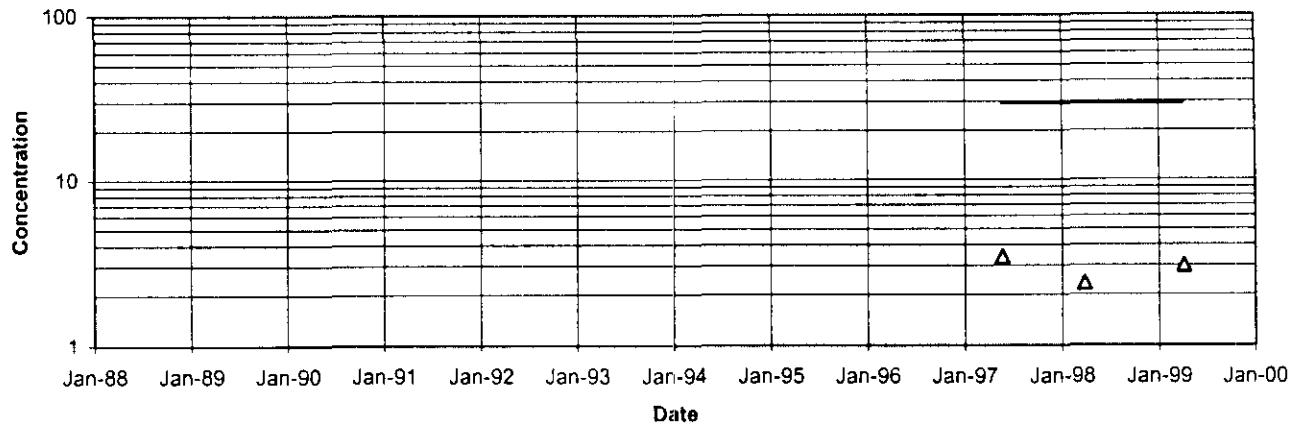
G116D



G117



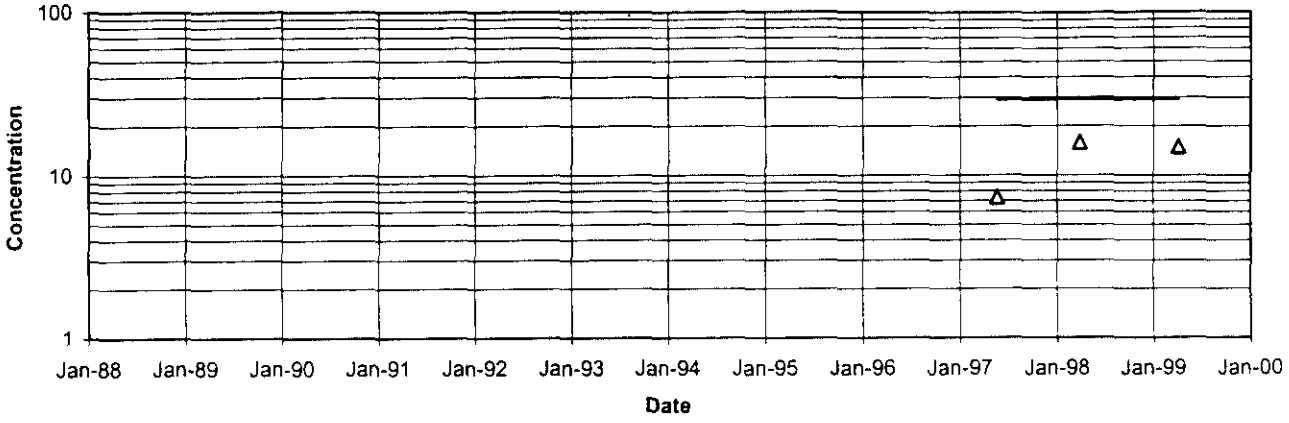
G118A



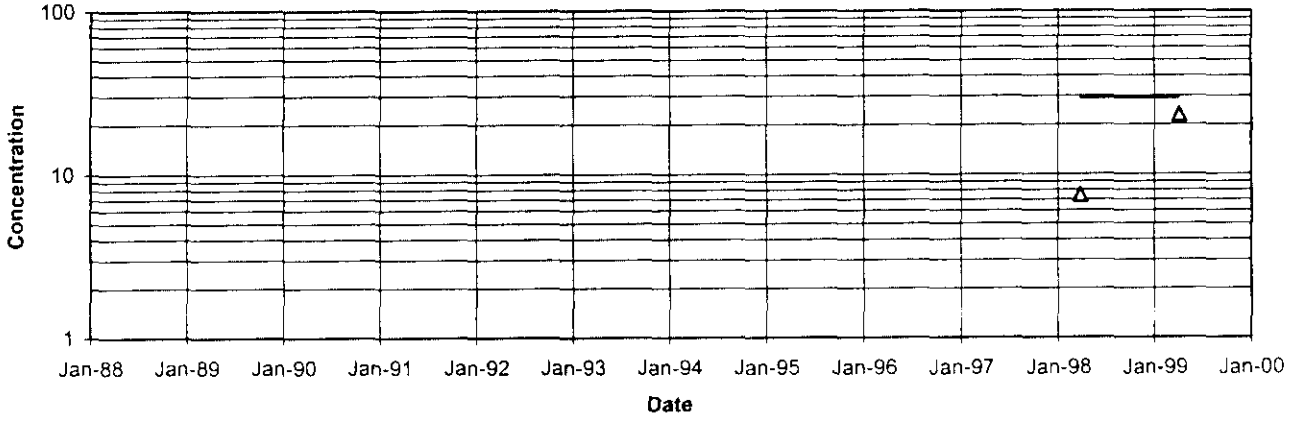
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

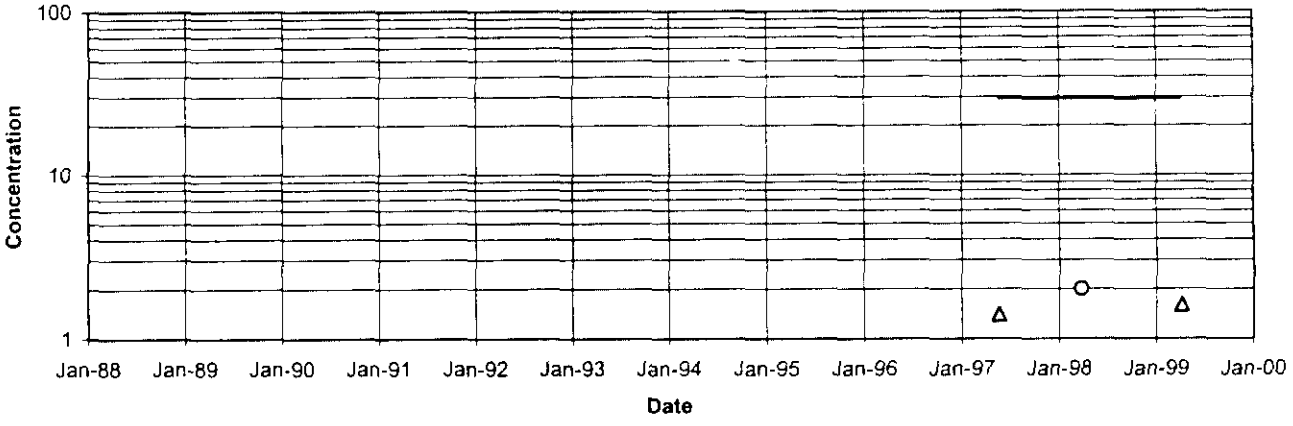
G118R



G119



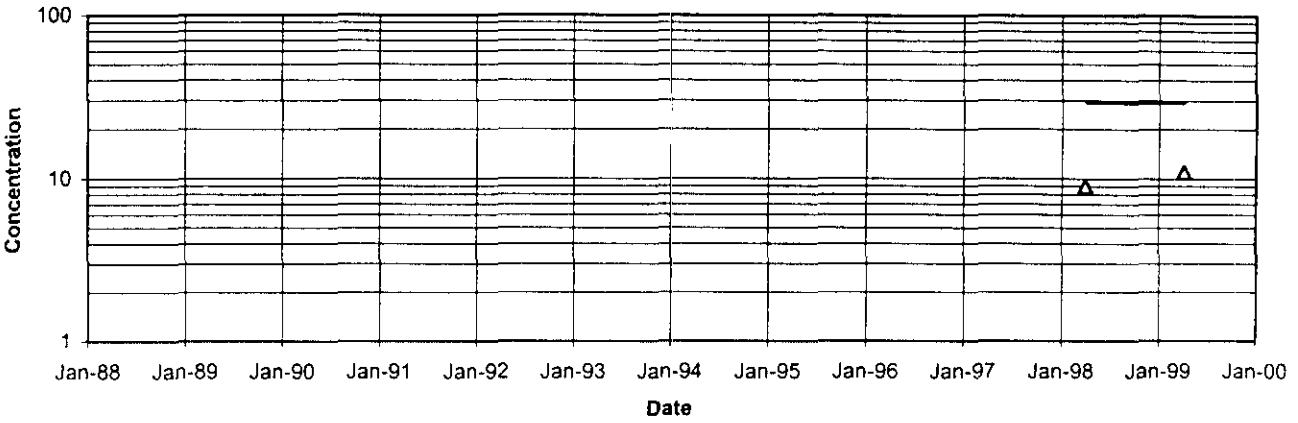
G120B



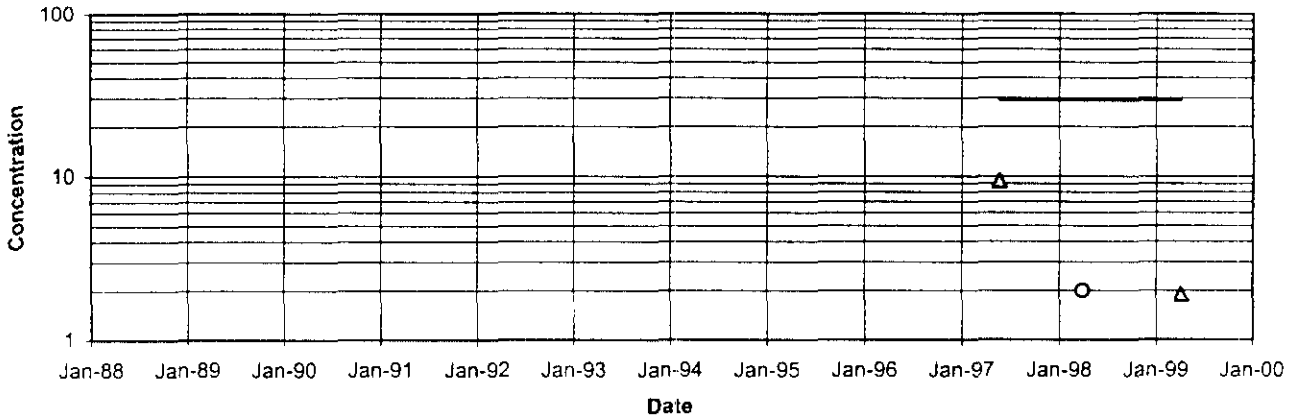
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

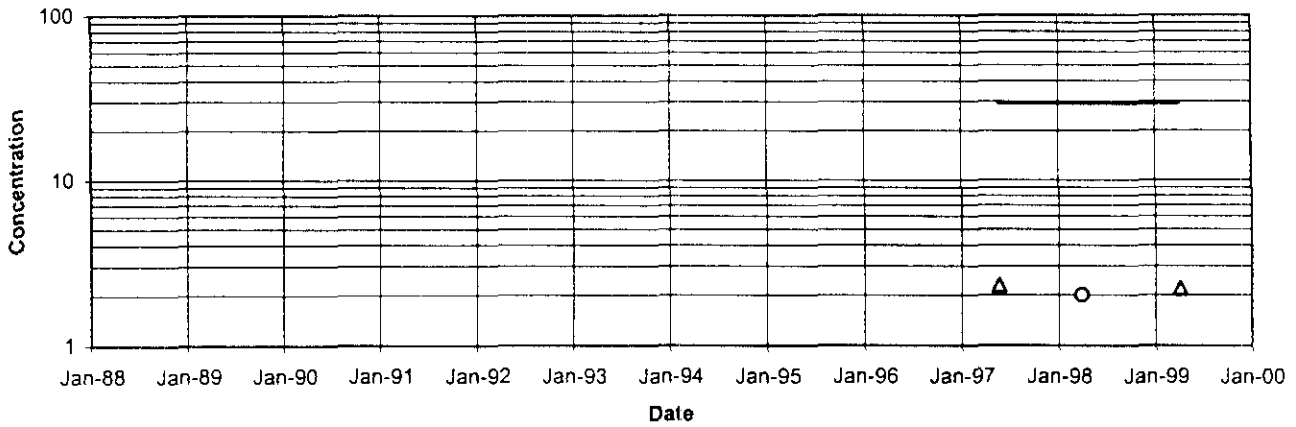
G130



G132



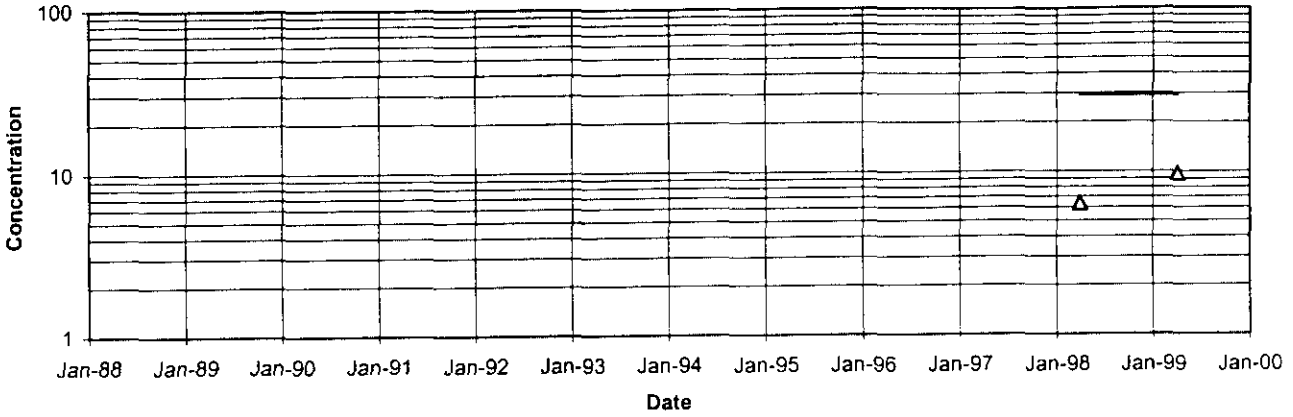
G33D



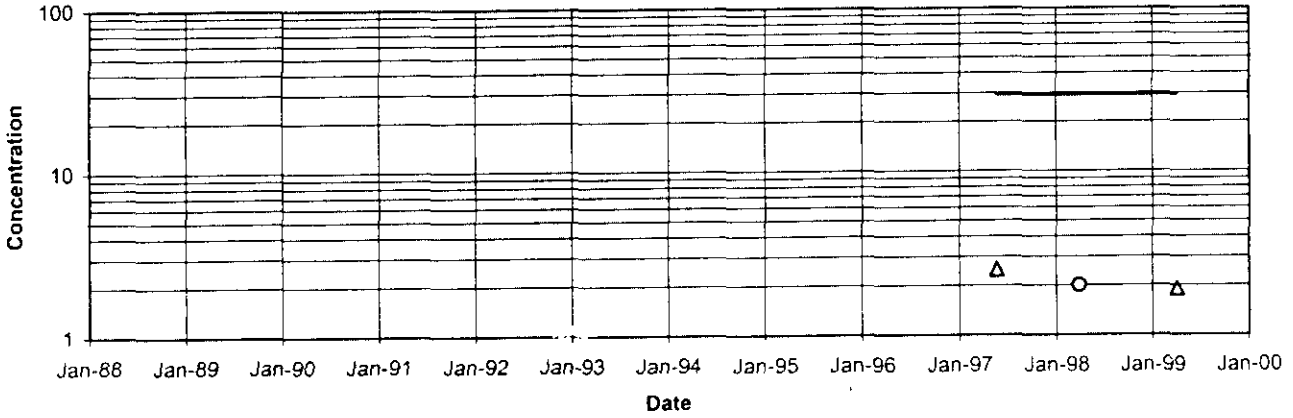
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

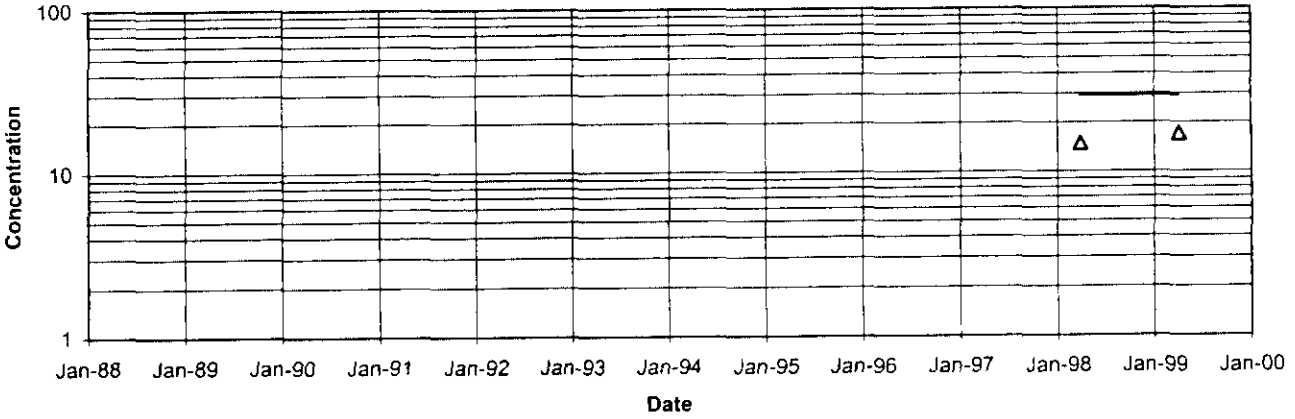
G33S



G34D



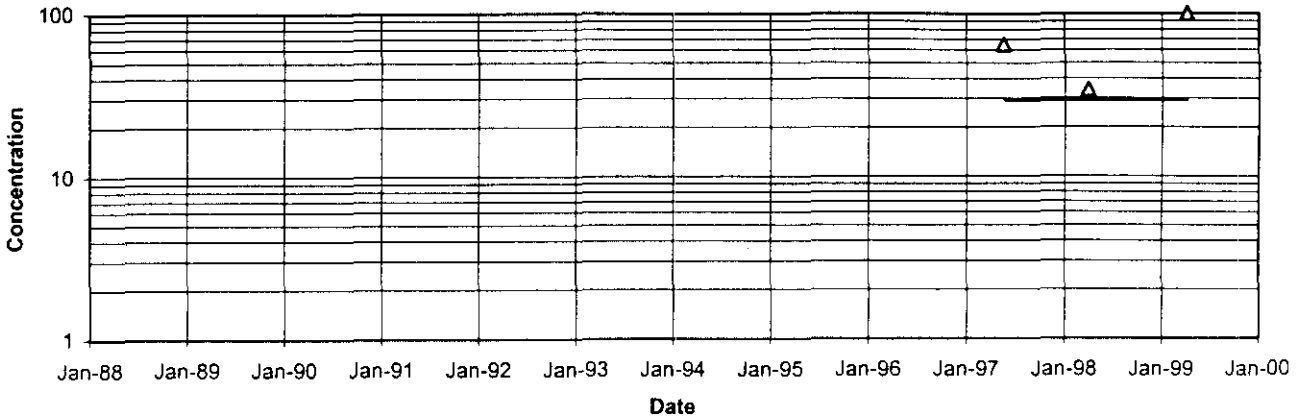
G34S



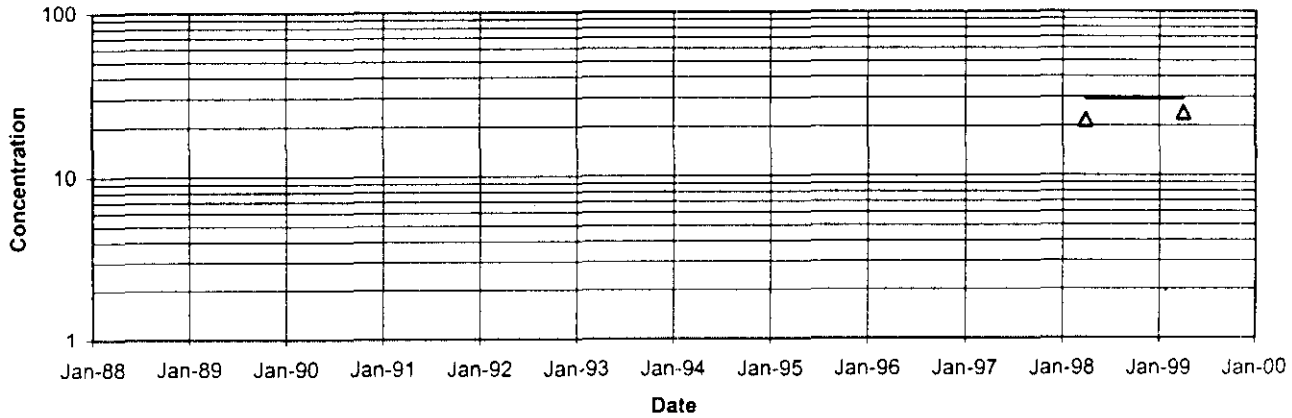
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

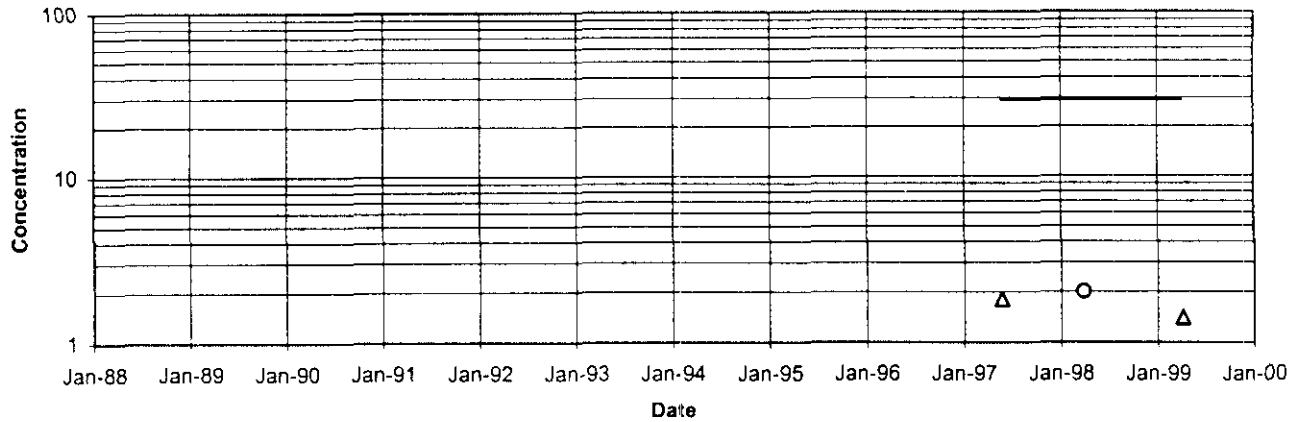
G35D



G35S



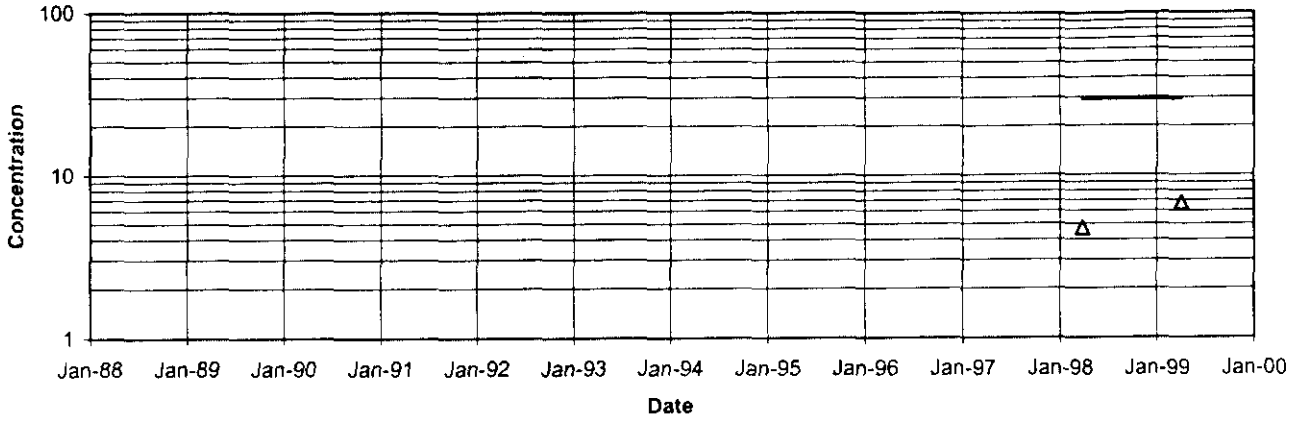
G36



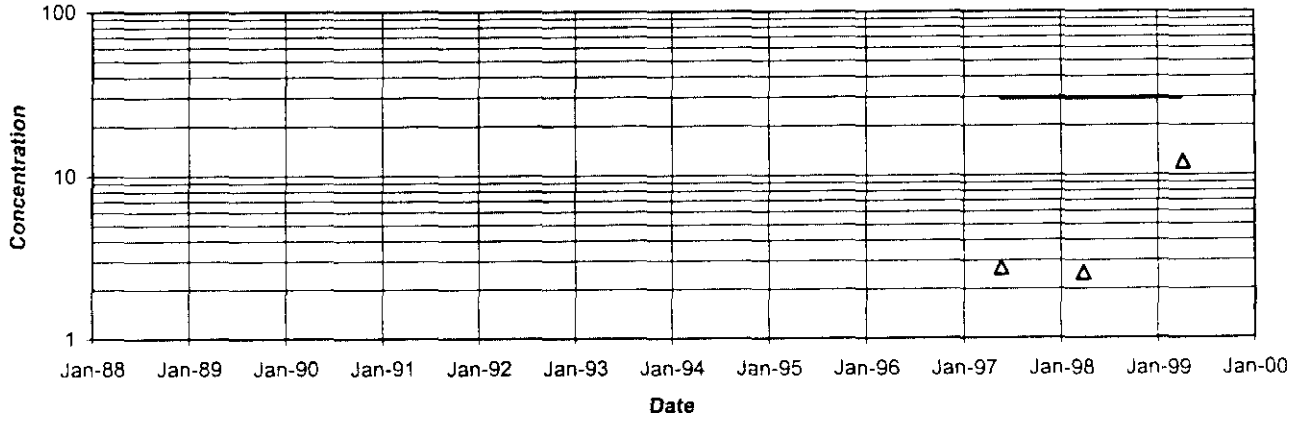
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

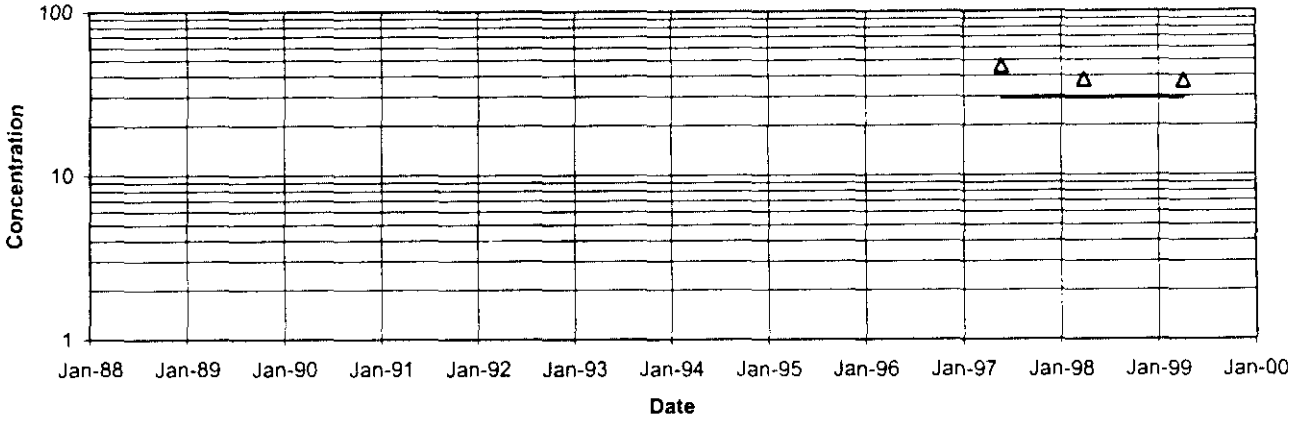
G37D



G37S



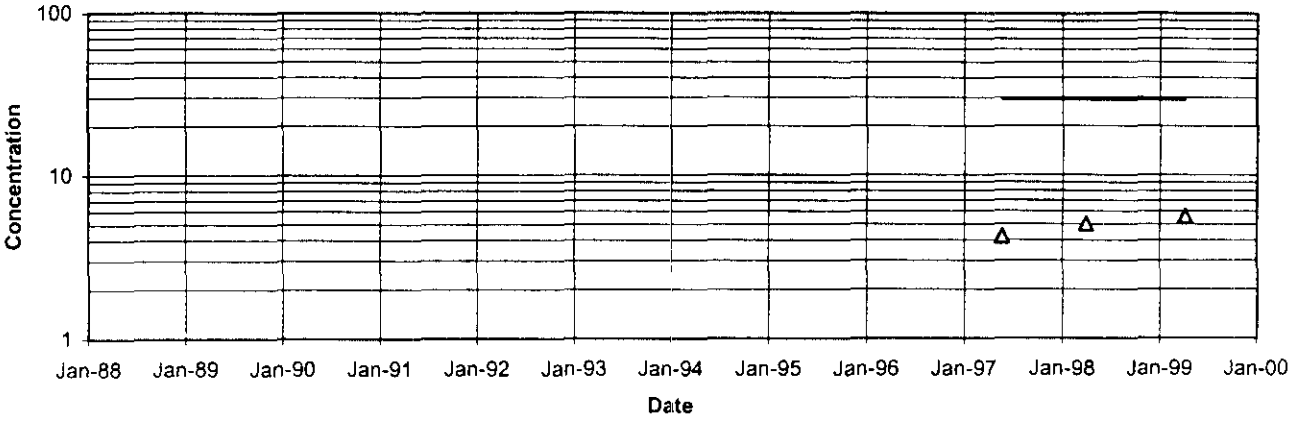
G38



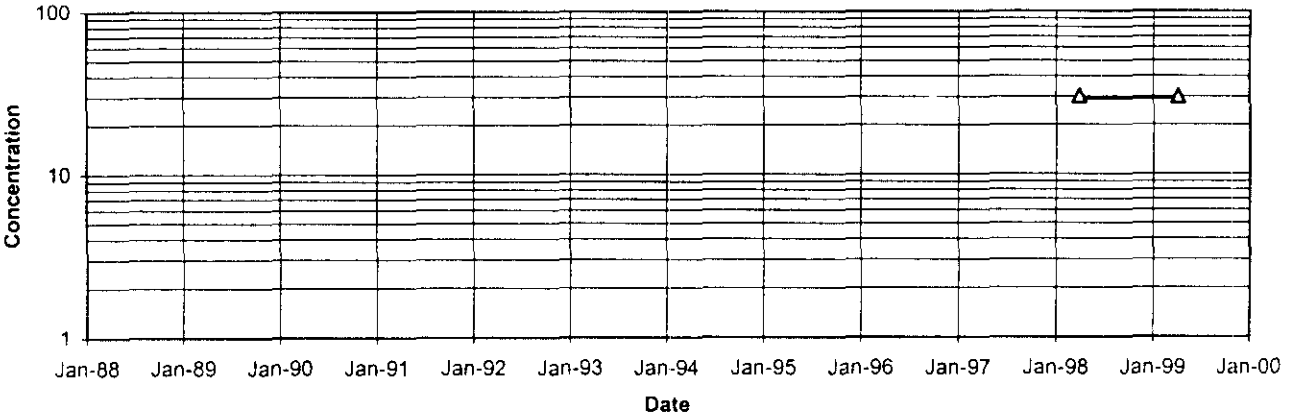
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

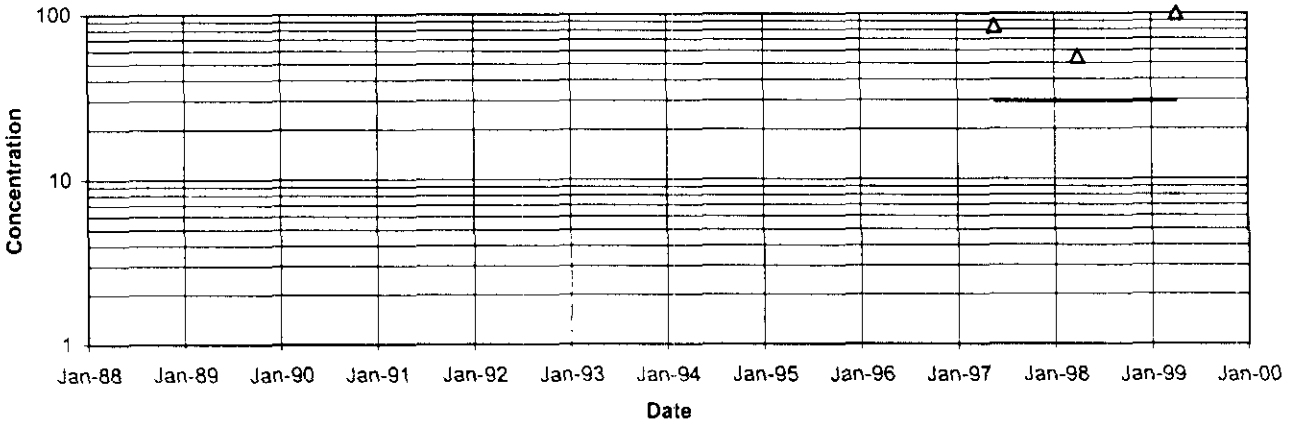
G39



G40



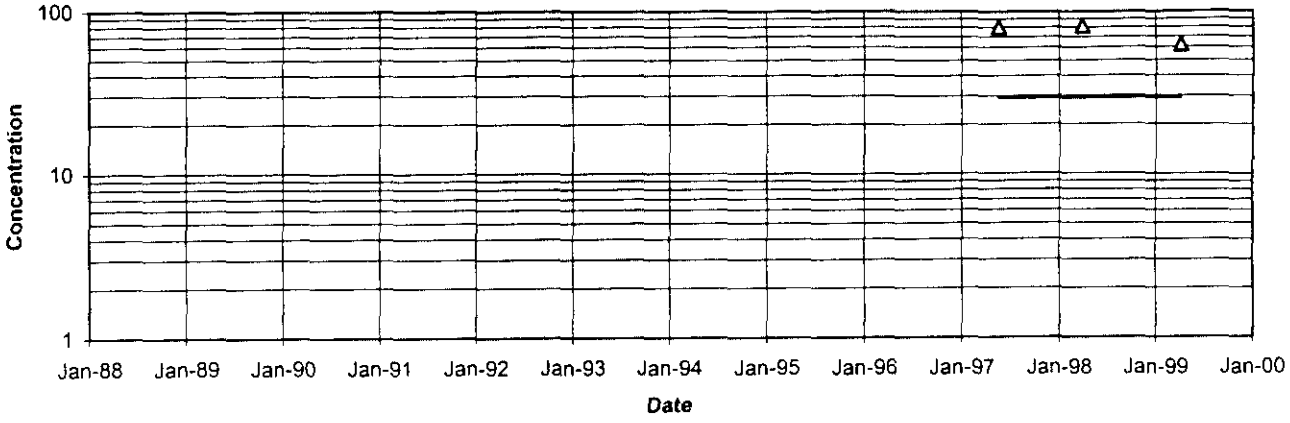
MW106



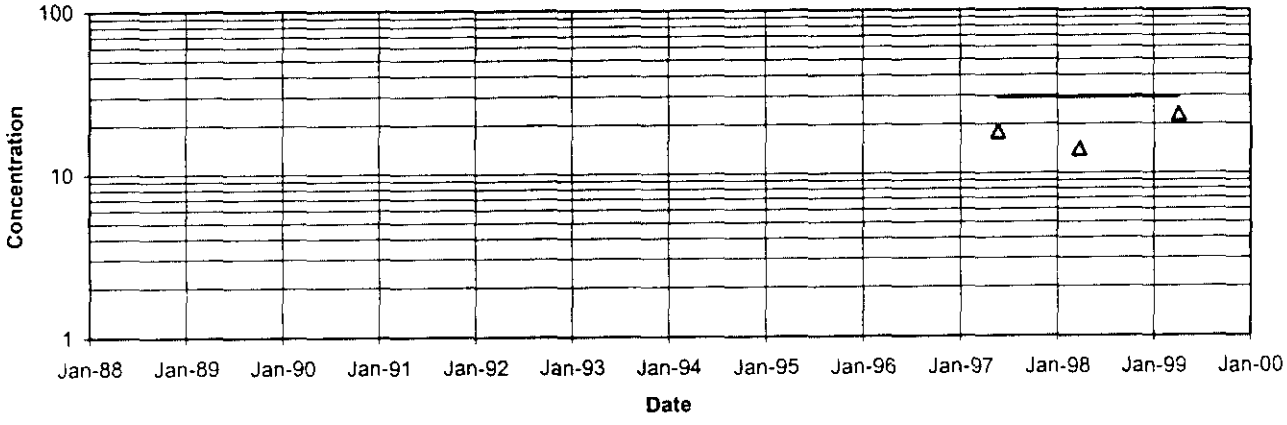
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

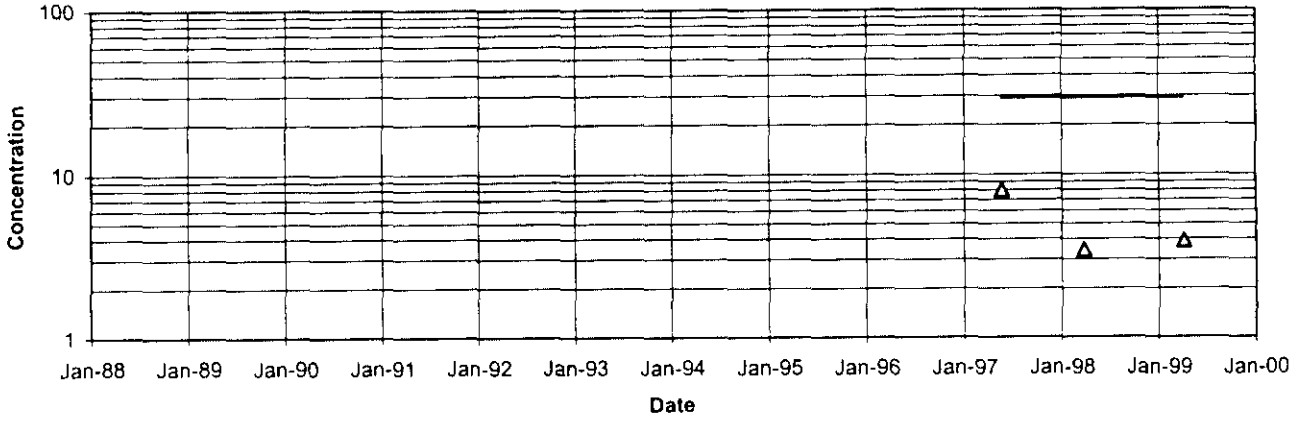
P1



P3R



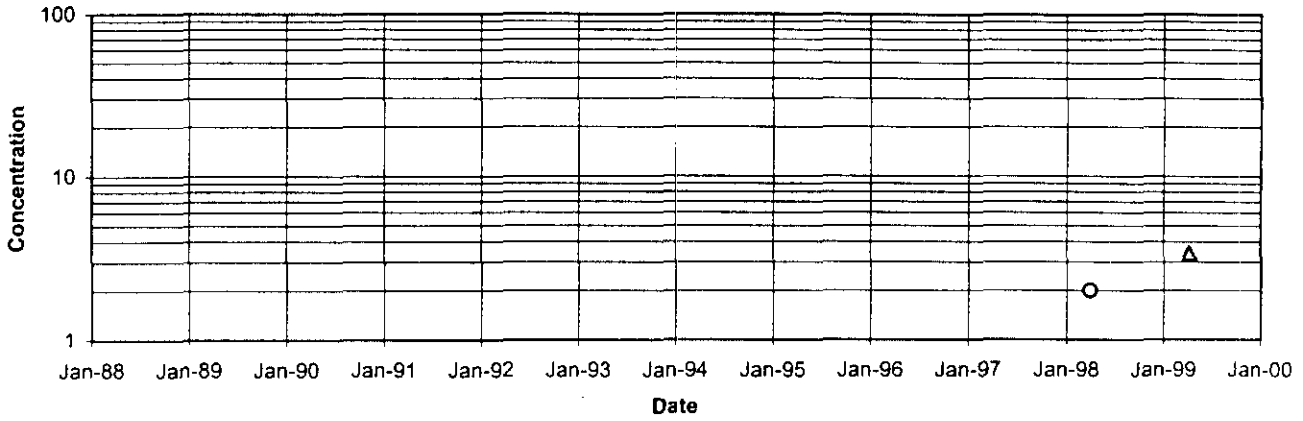
P4R



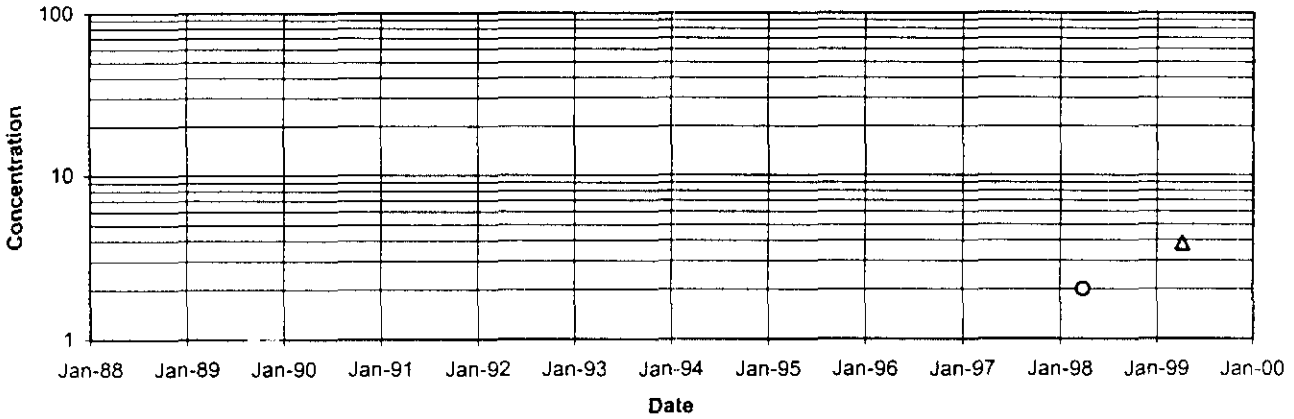
Potassium (mg/L)

AGQS Δ Concentration O NonDetect

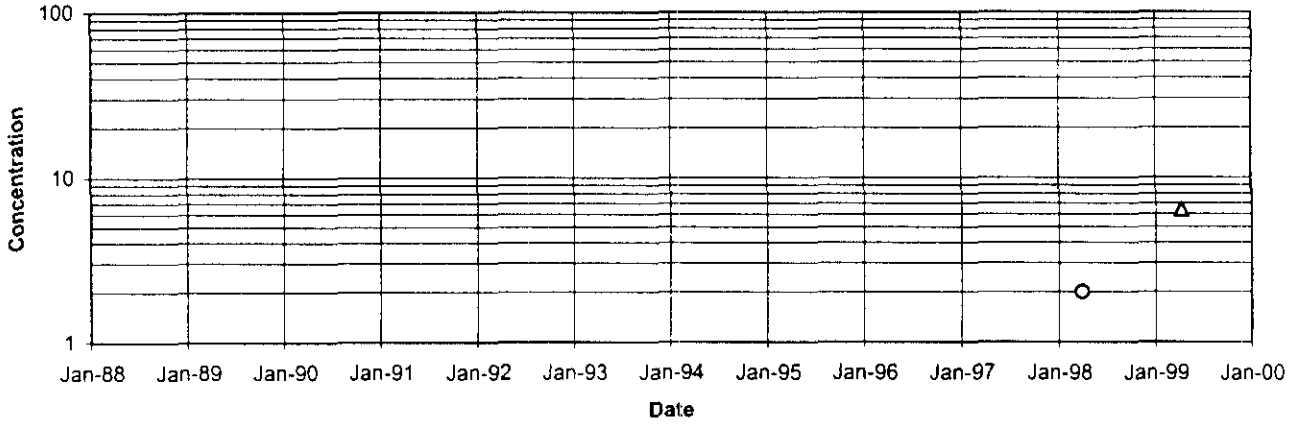
SG1



SG3



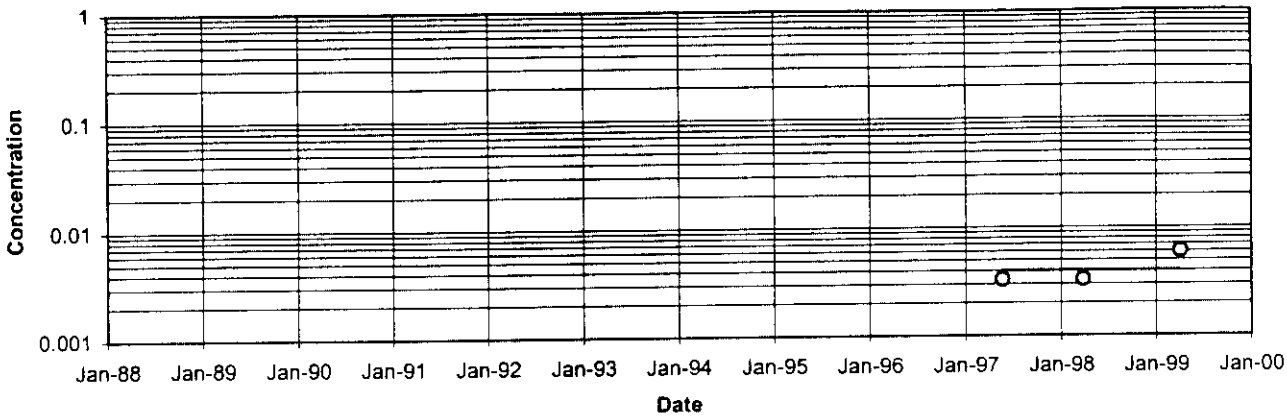
SG4



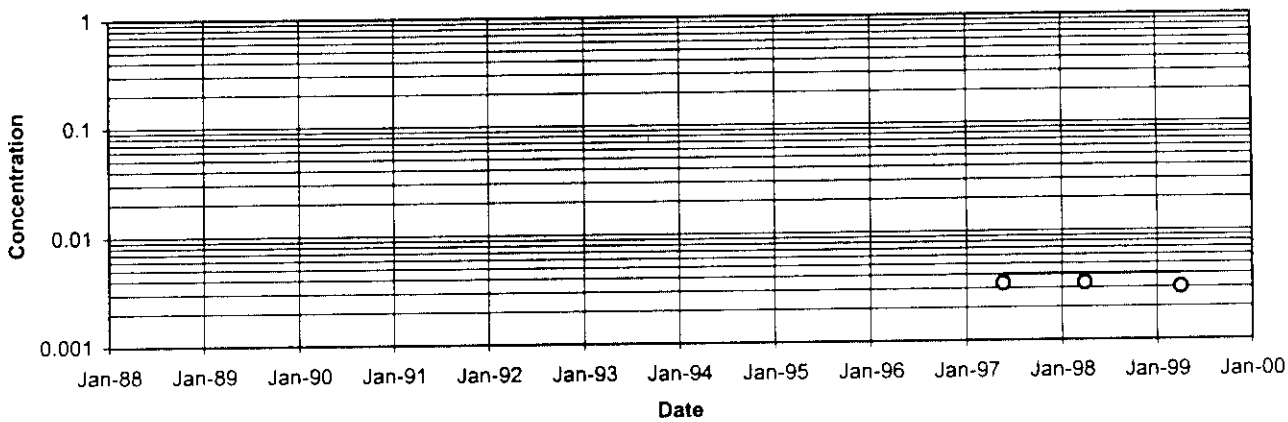
Selenium (mg/L)

AGQS Δ Concentration ○ NonDetect

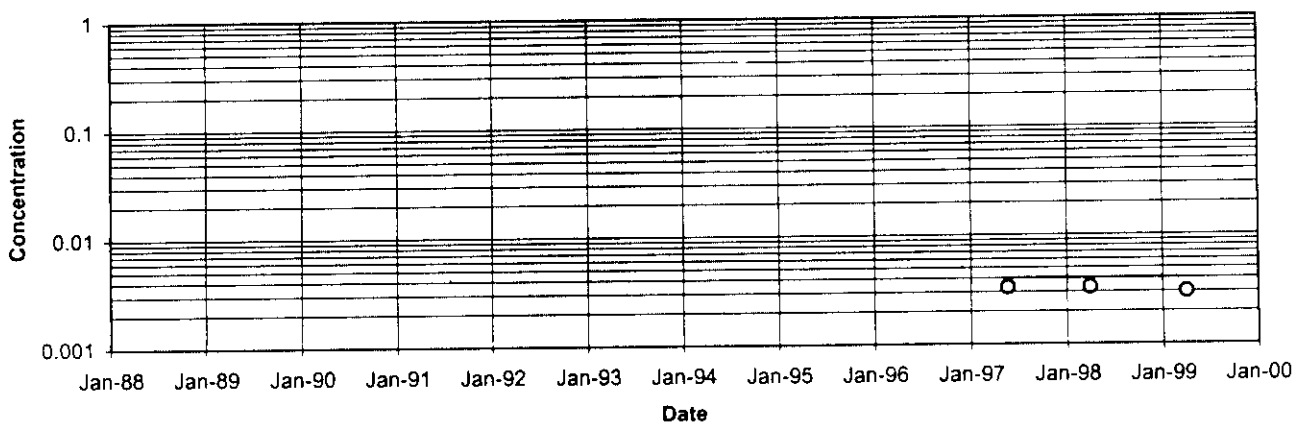
B15R



G109



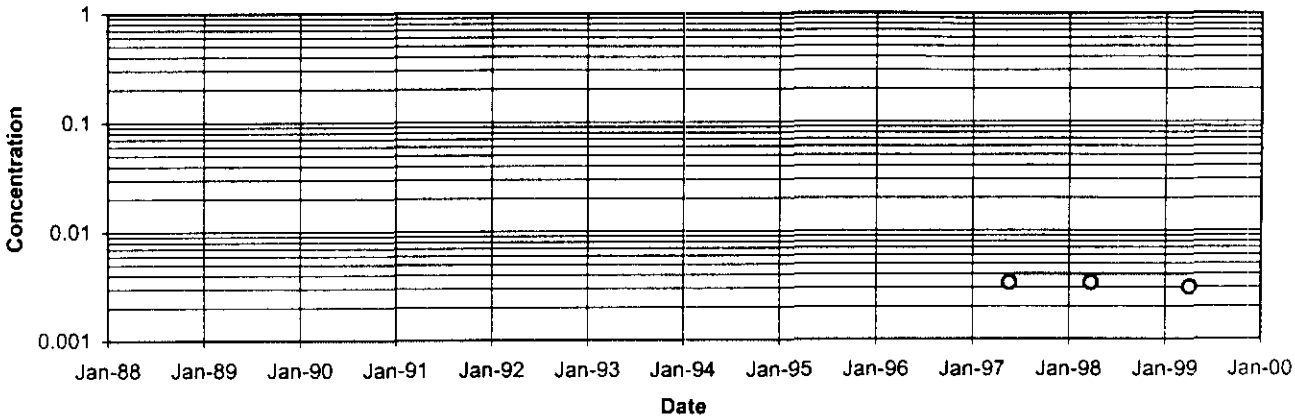
G109A



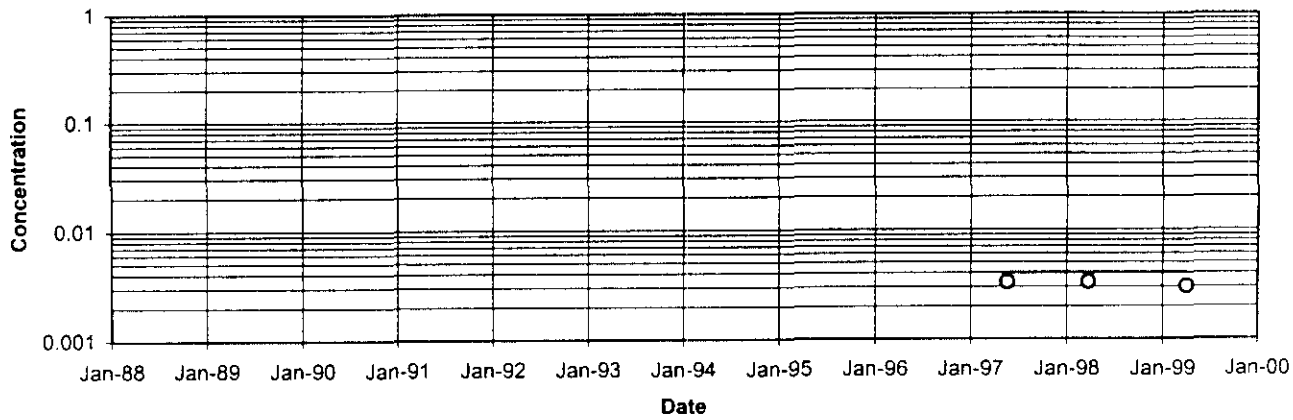
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

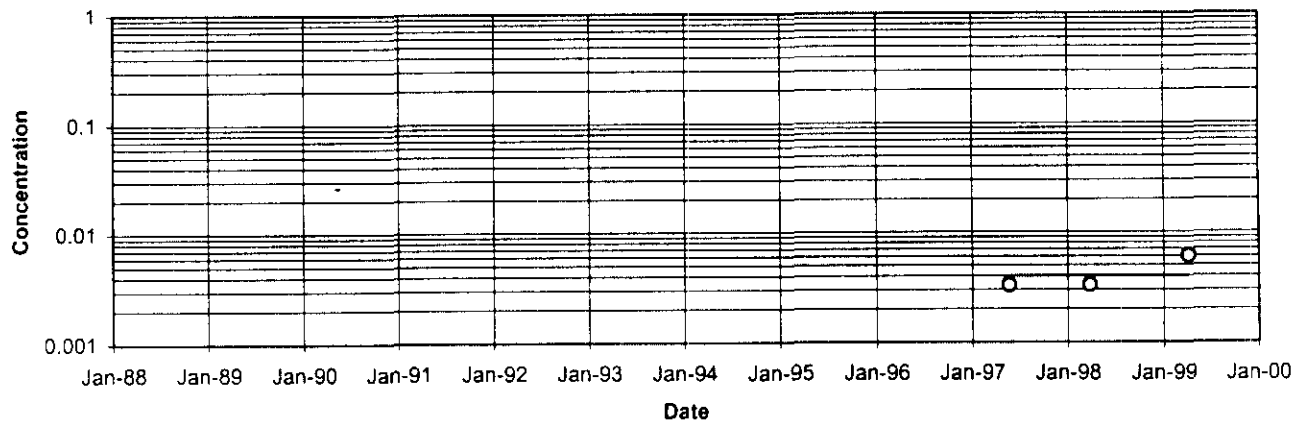
G113



G113A



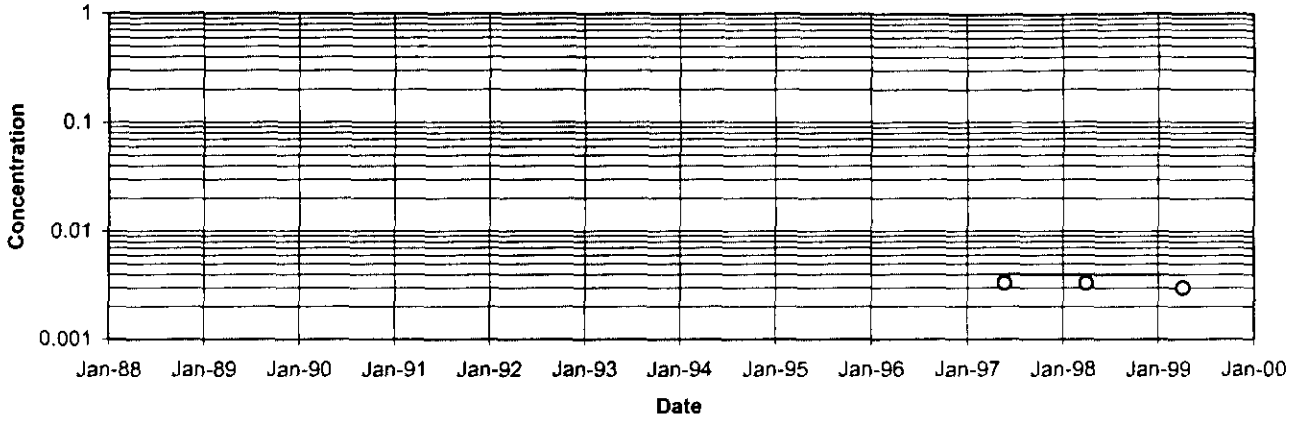
G114



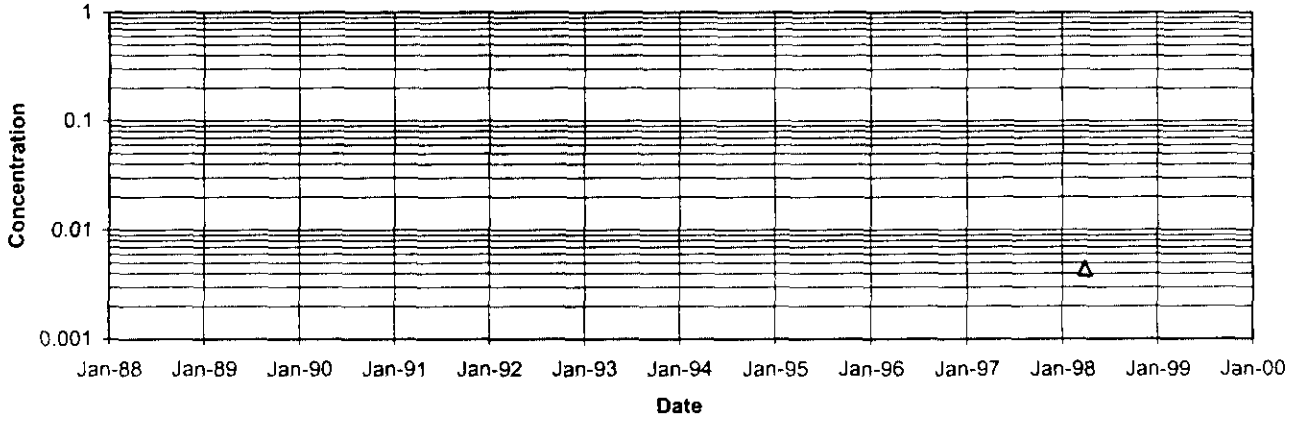
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

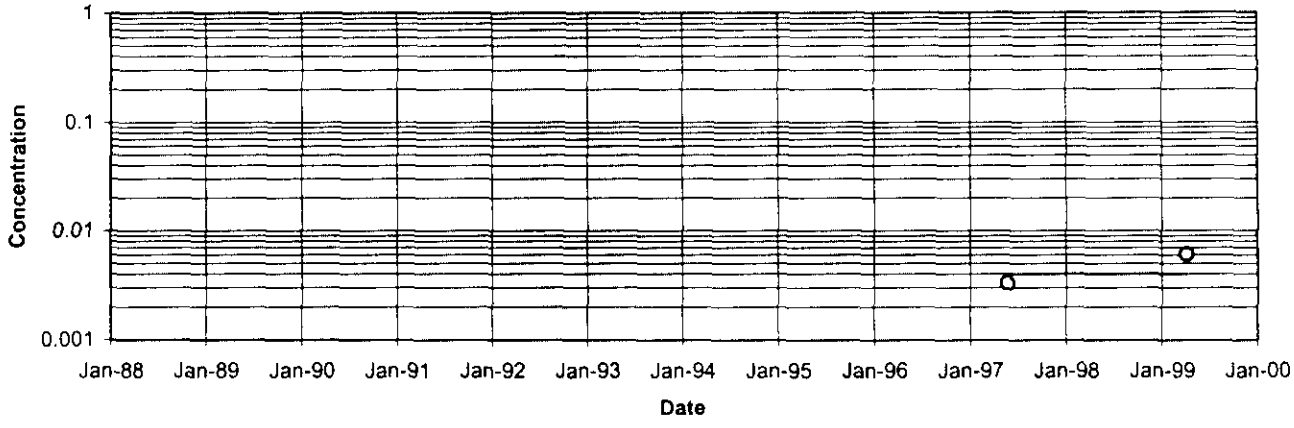
G115



G116



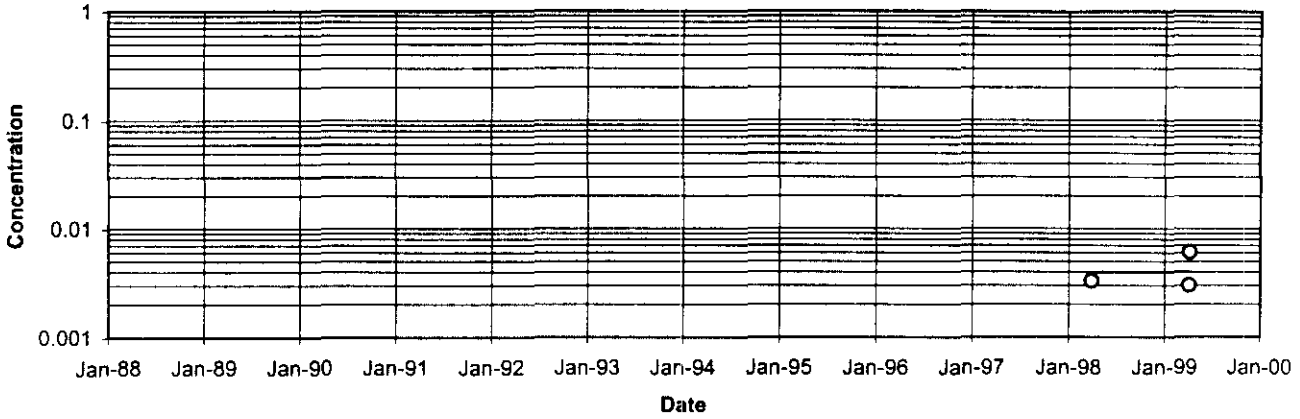
G116A



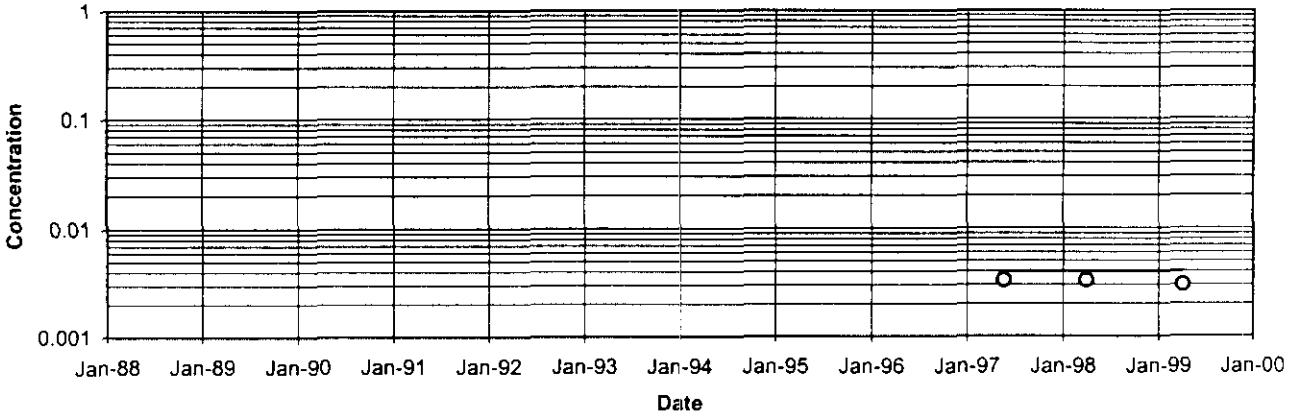
Selenium (mg/L)

AGQS Δ Concentration ○ NonDetect

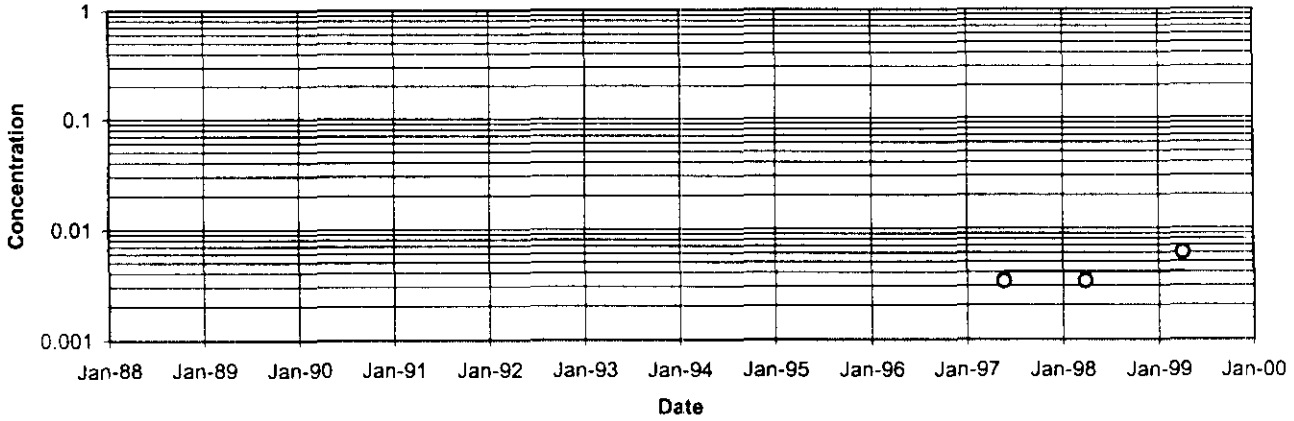
G116D



G117



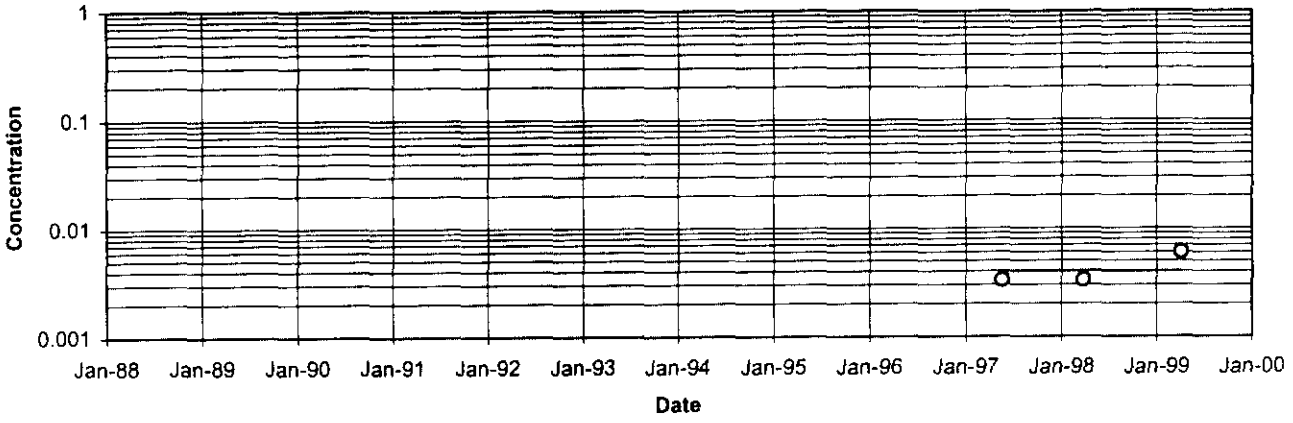
G118A



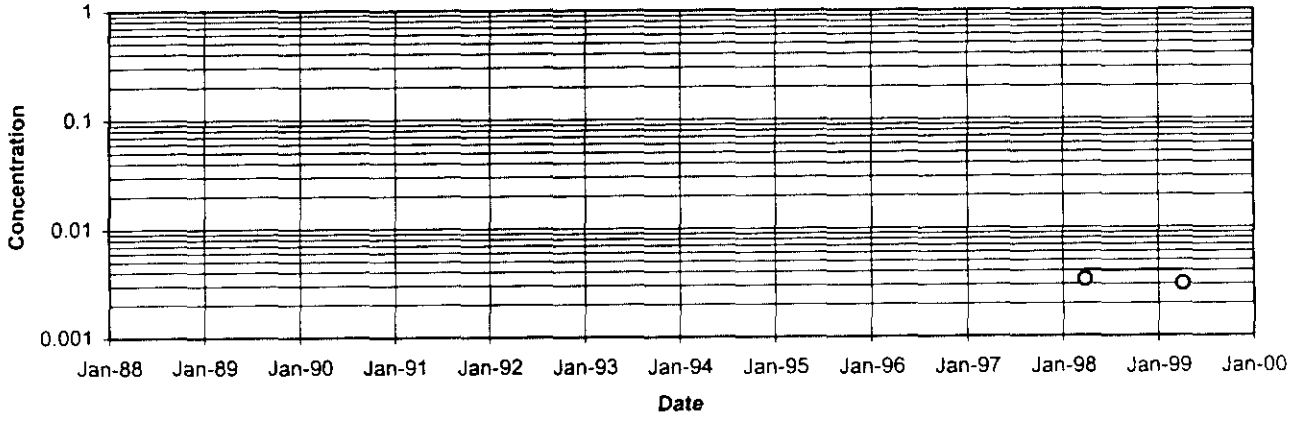
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

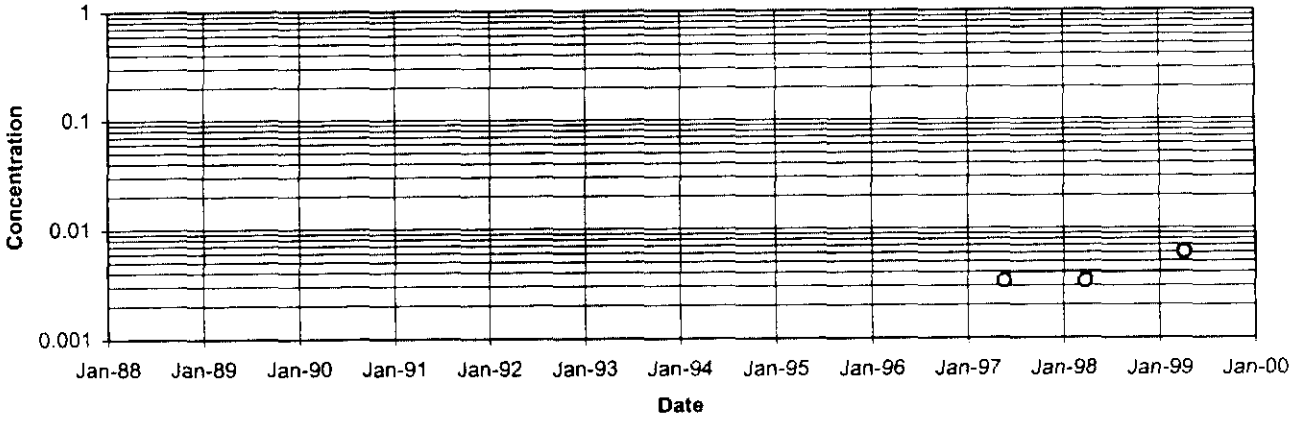
G118R



G119



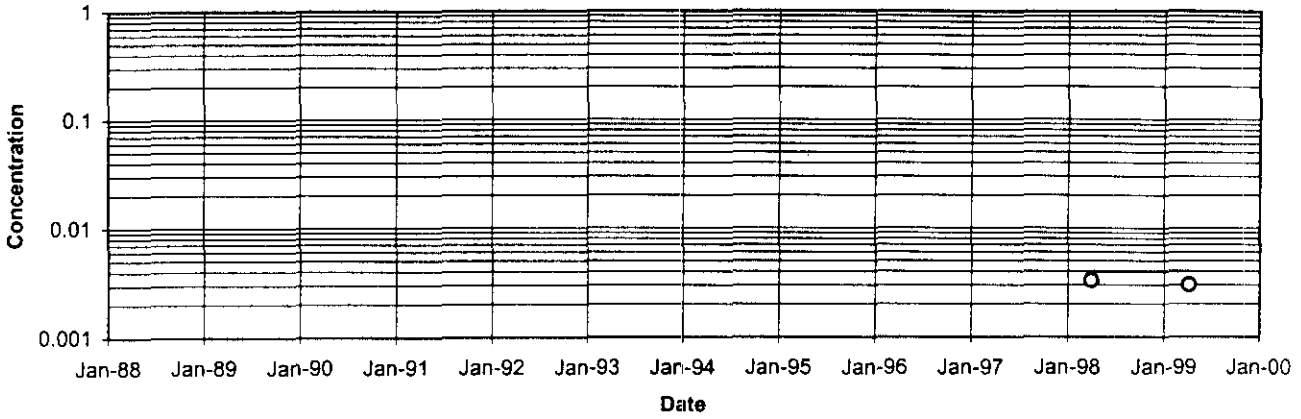
G120B



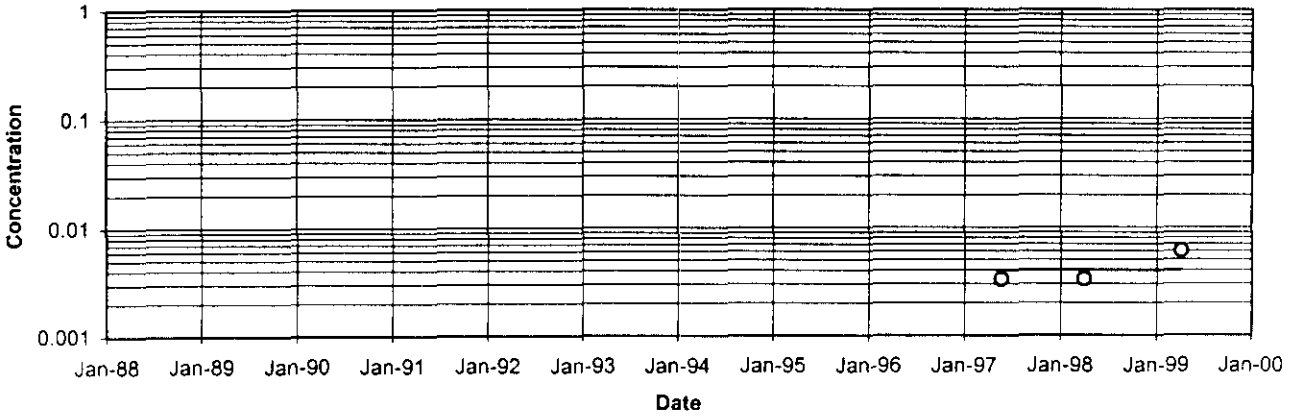
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

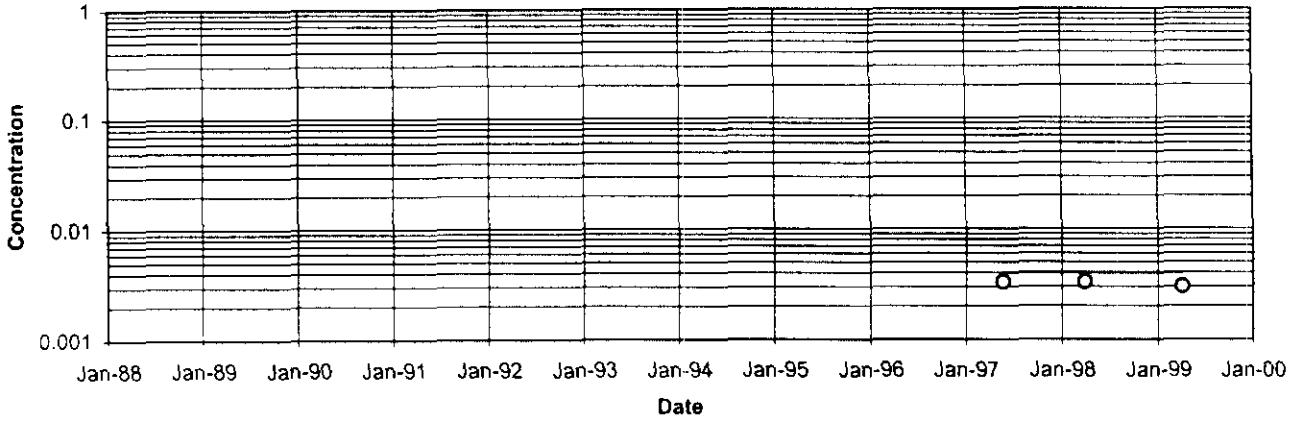
G130



G132



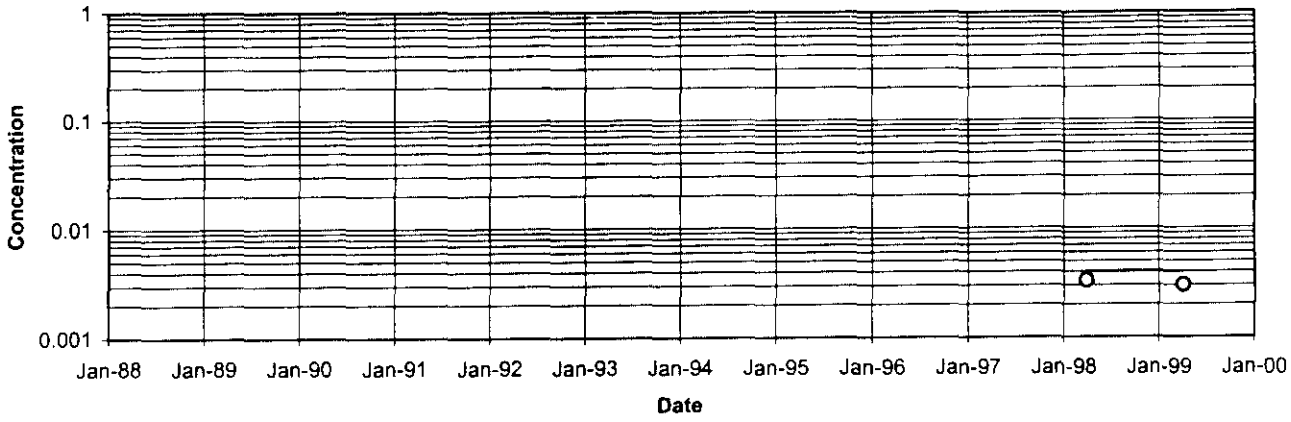
G33D



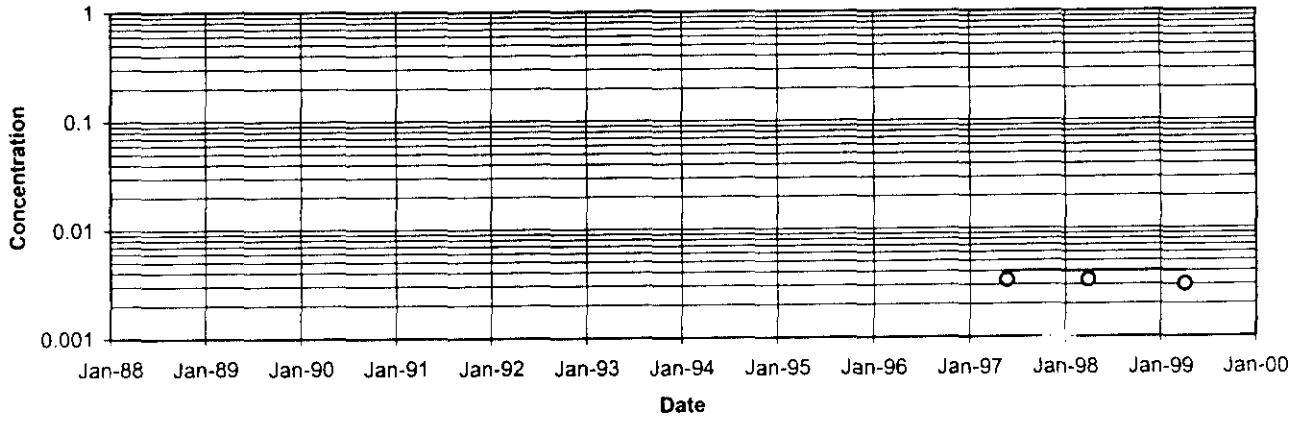
Selenium (mg/L)

AGQS Δ Concentration ○ NonDetect

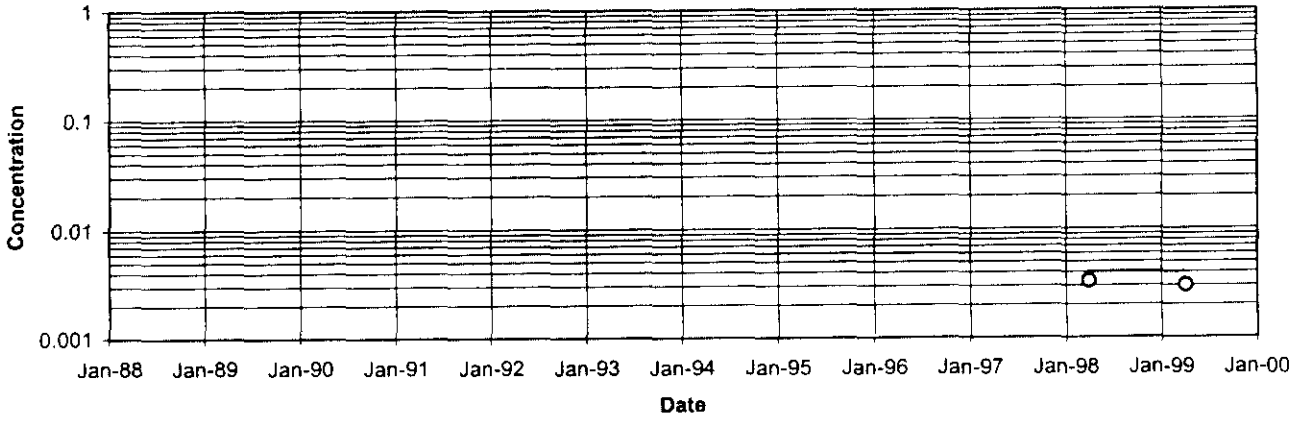
G33S



G34D



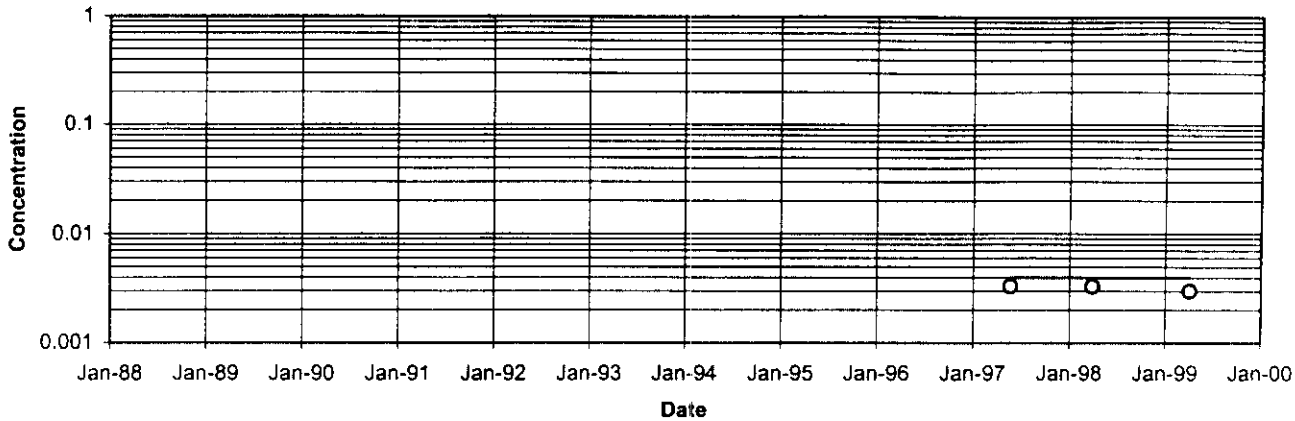
G34S



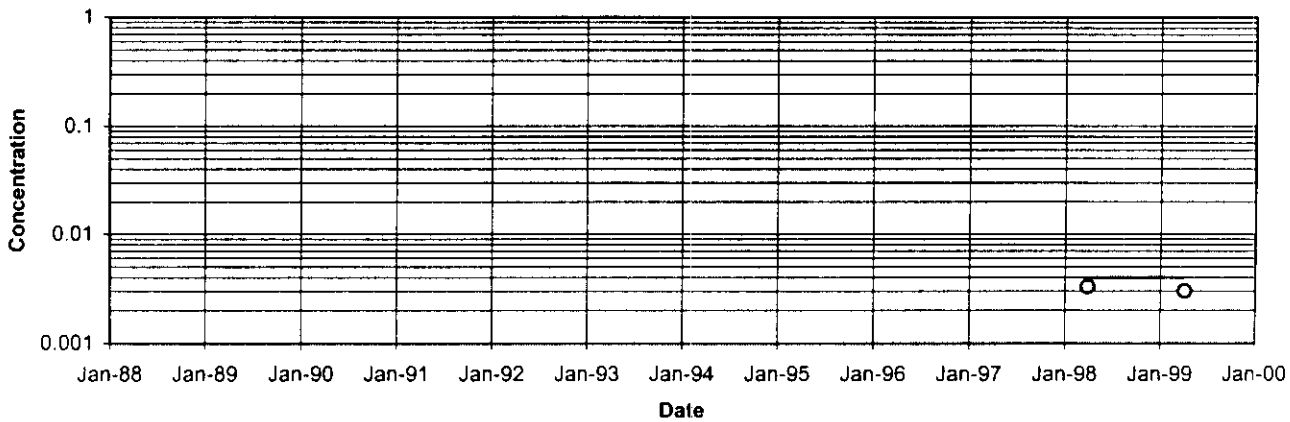
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

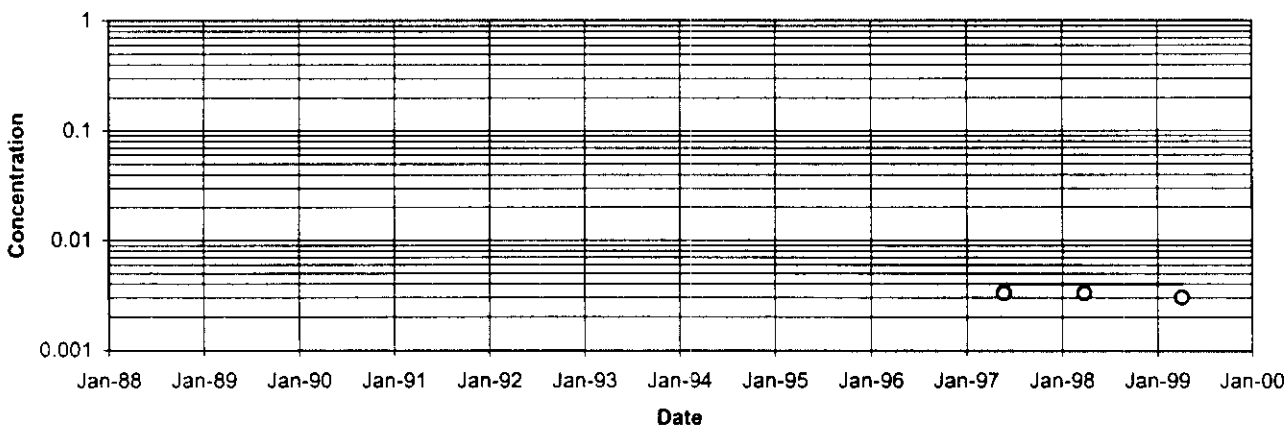
G35D



G35S



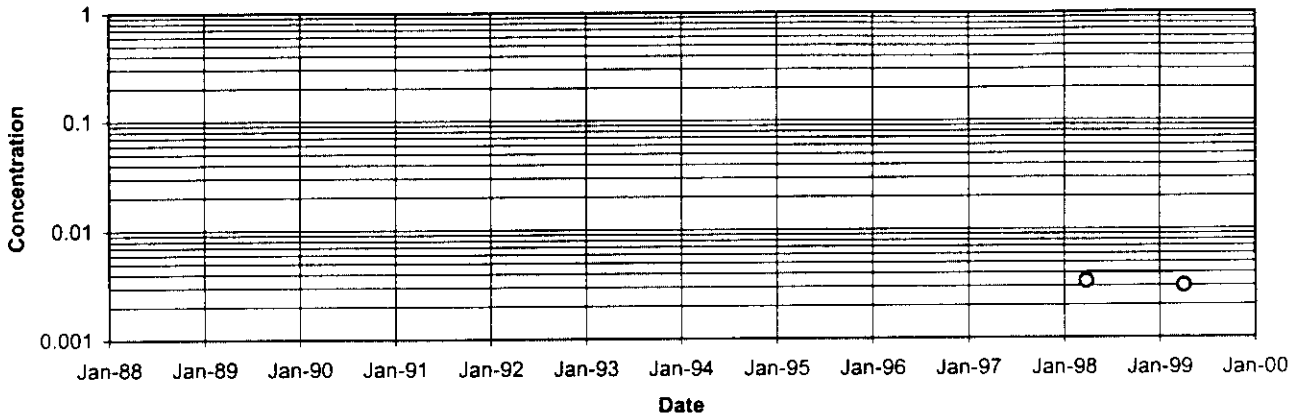
G36



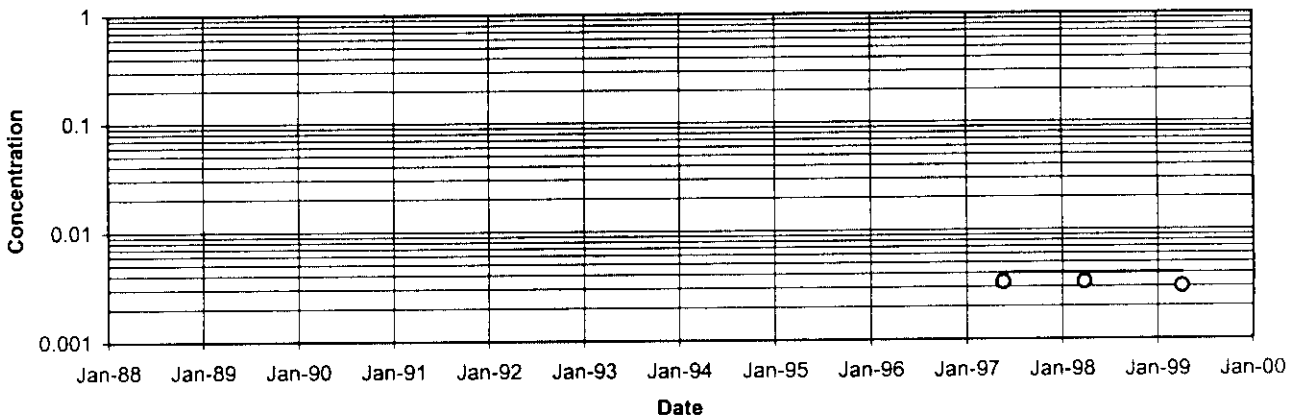
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

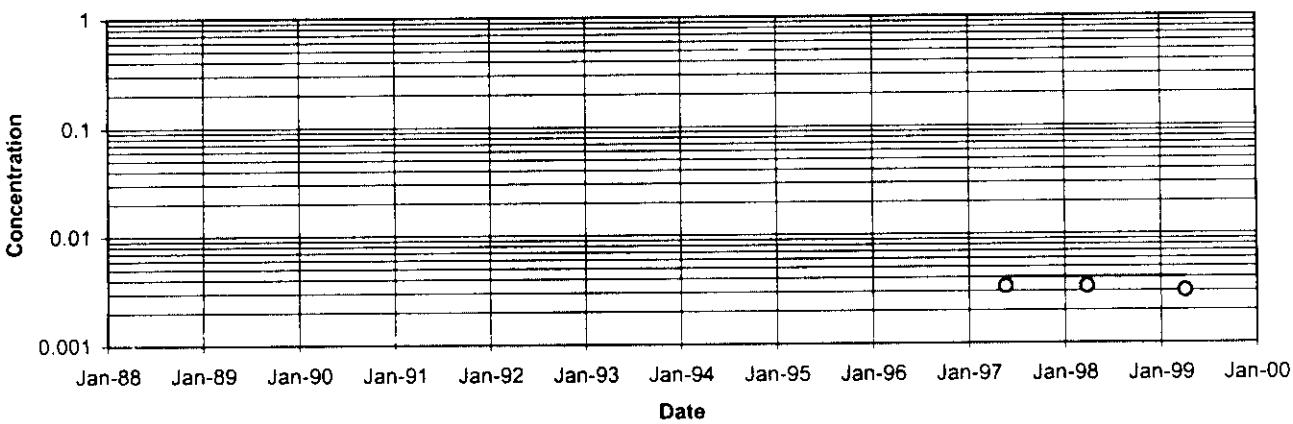
G37D



G37S



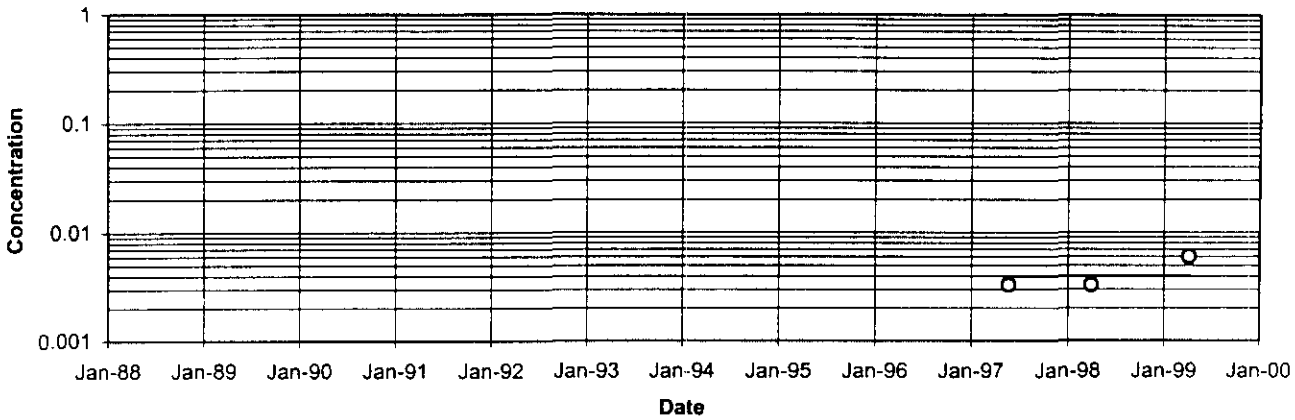
G38



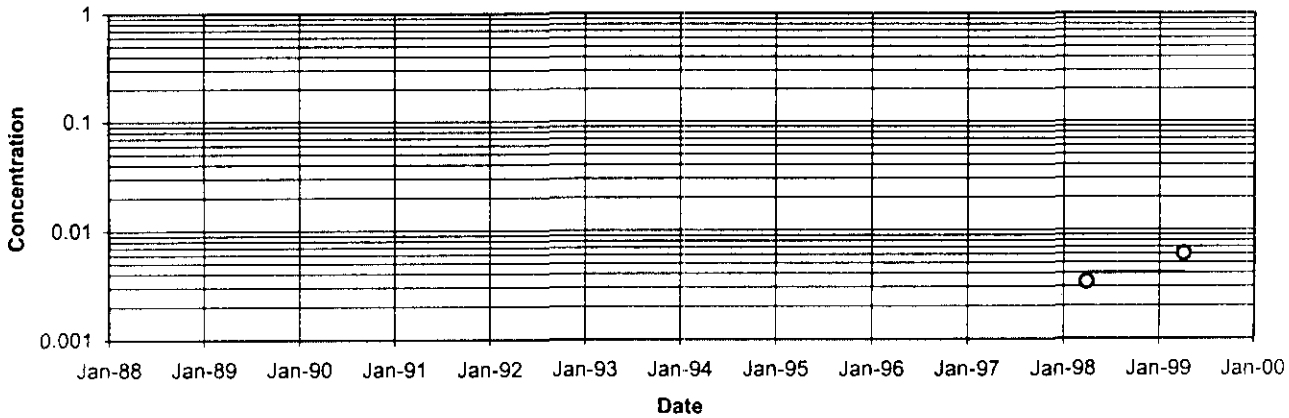
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

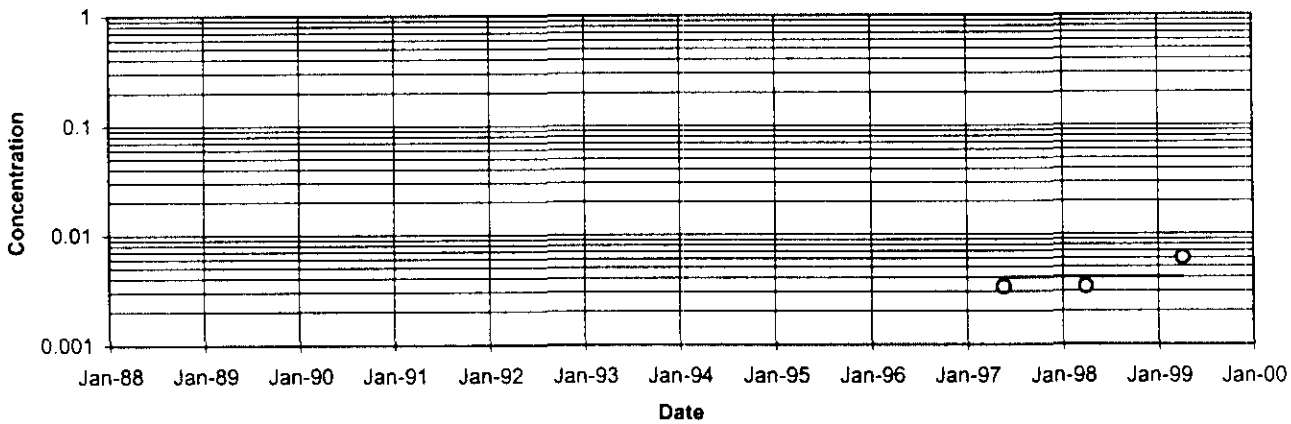
G39



G40



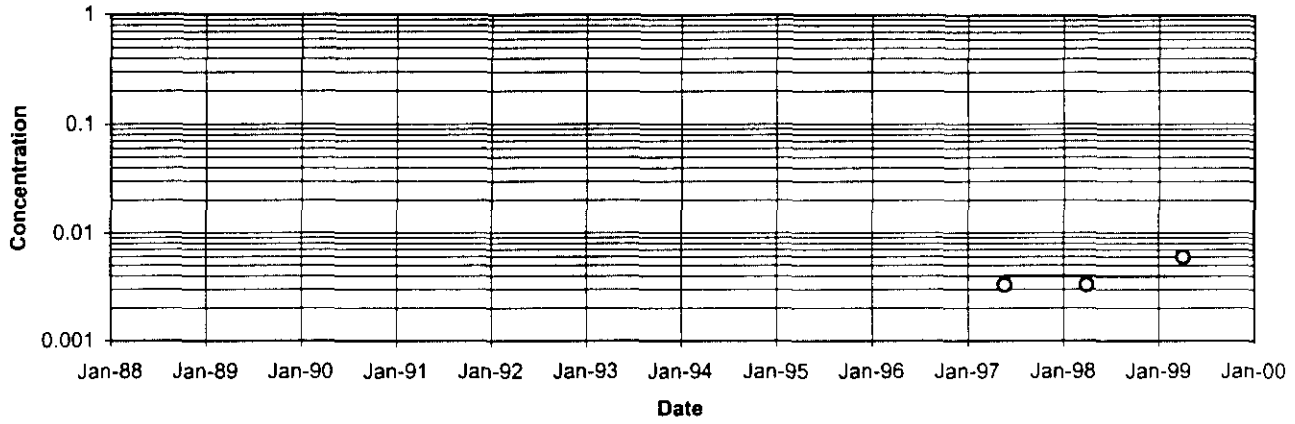
MW106



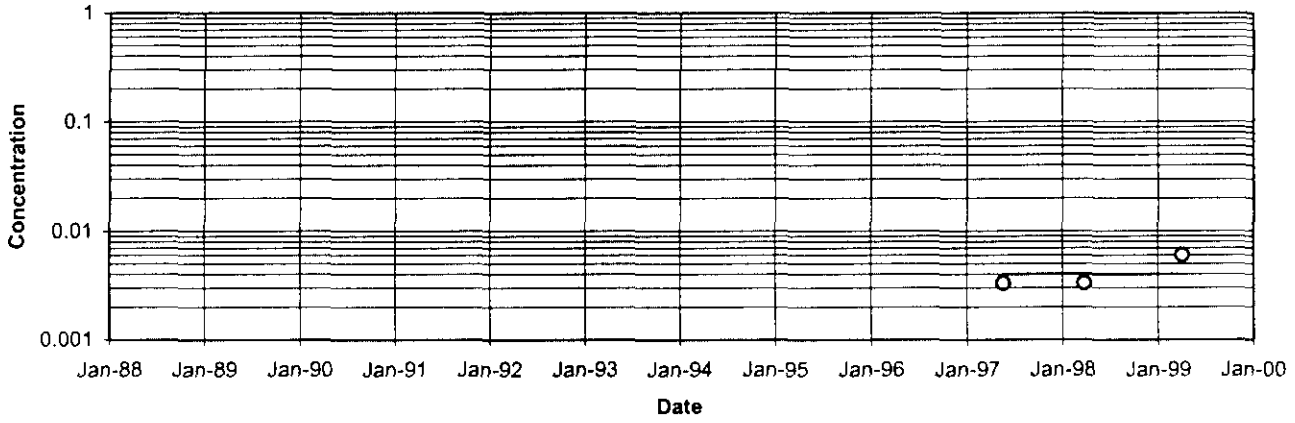
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

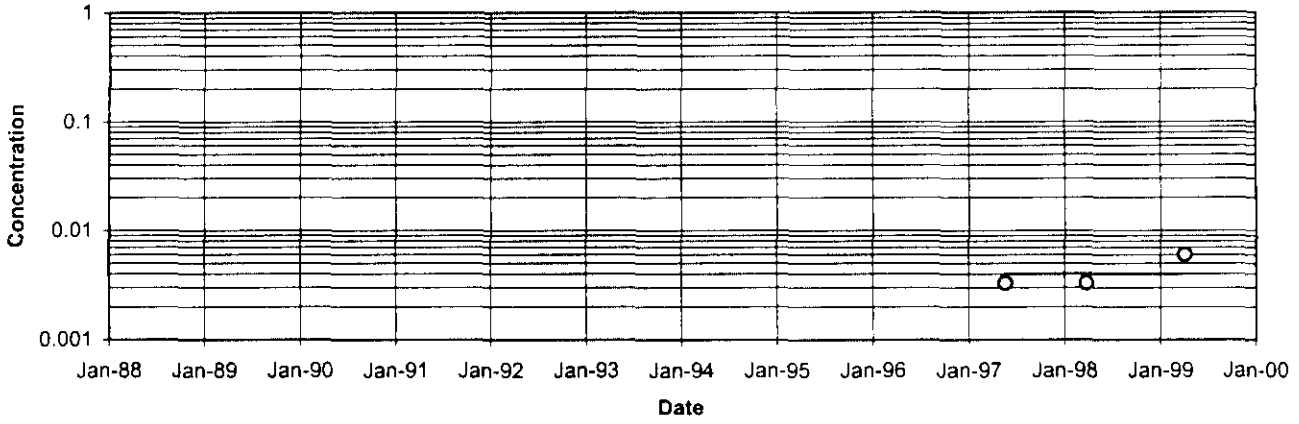
P1



P3R



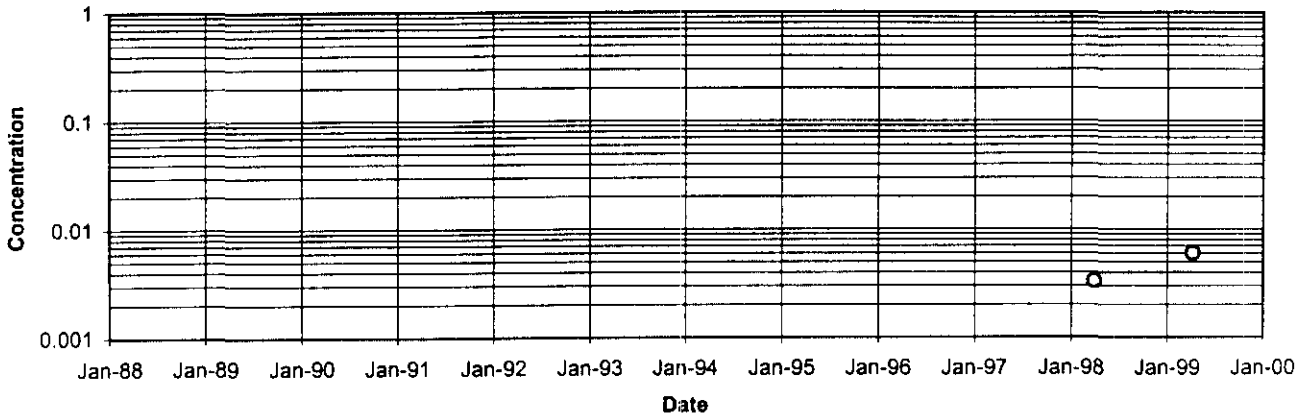
P4R



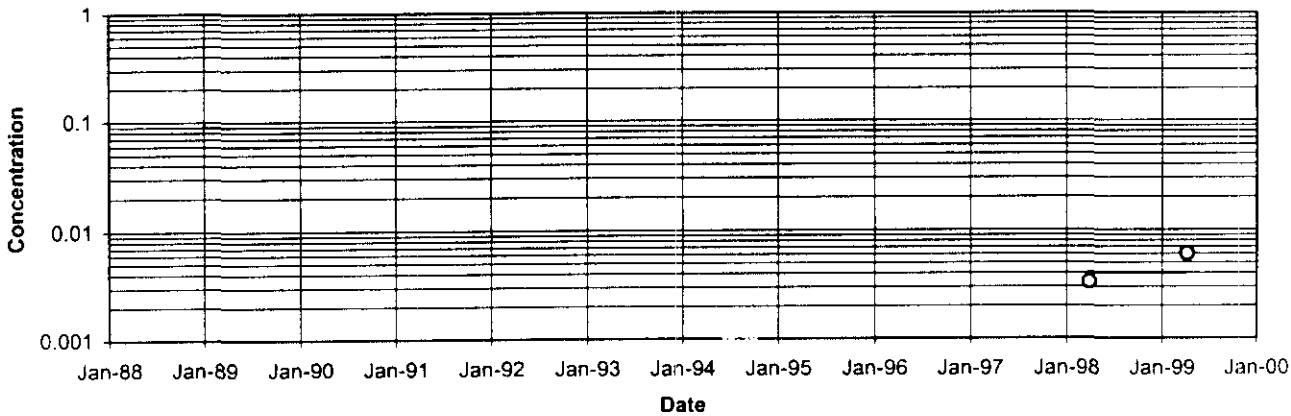
Selenium (mg/L)

AGQS Δ Concentration O NonDetect

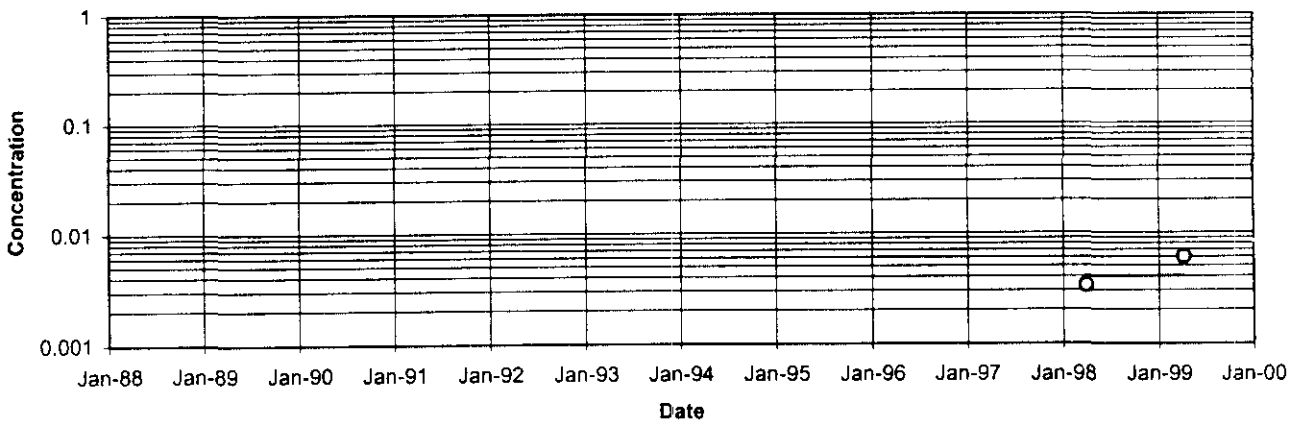
SG1



SG3



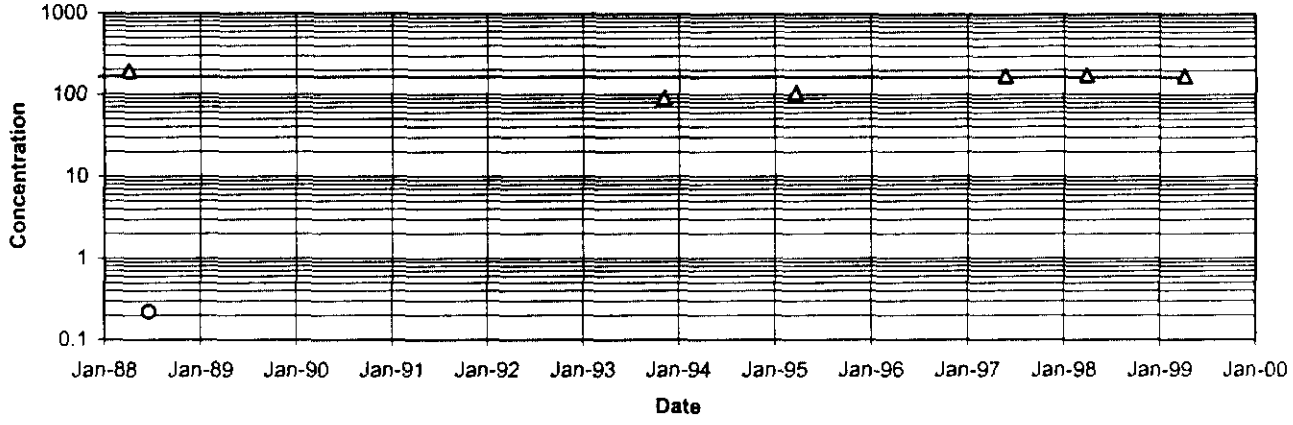
SG4



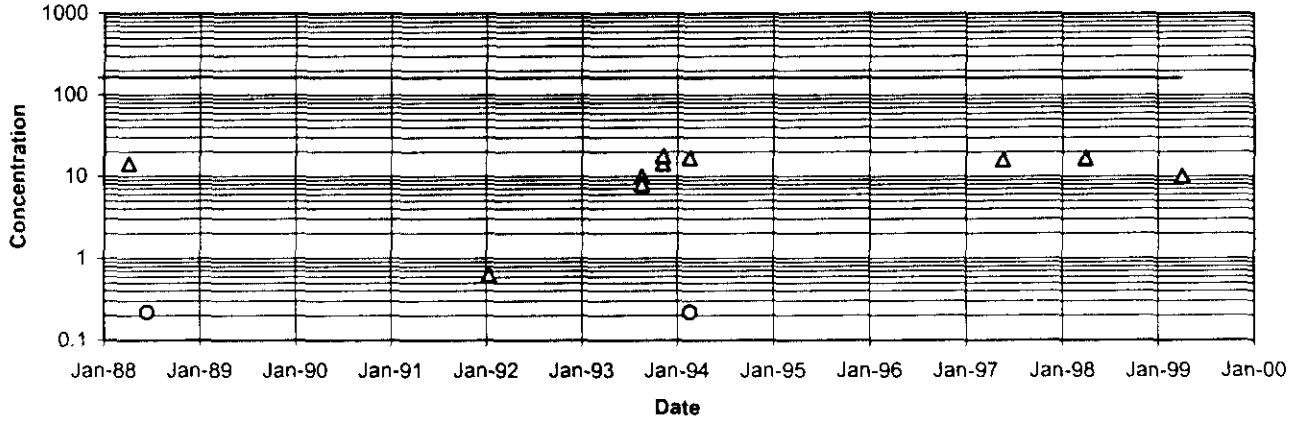
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

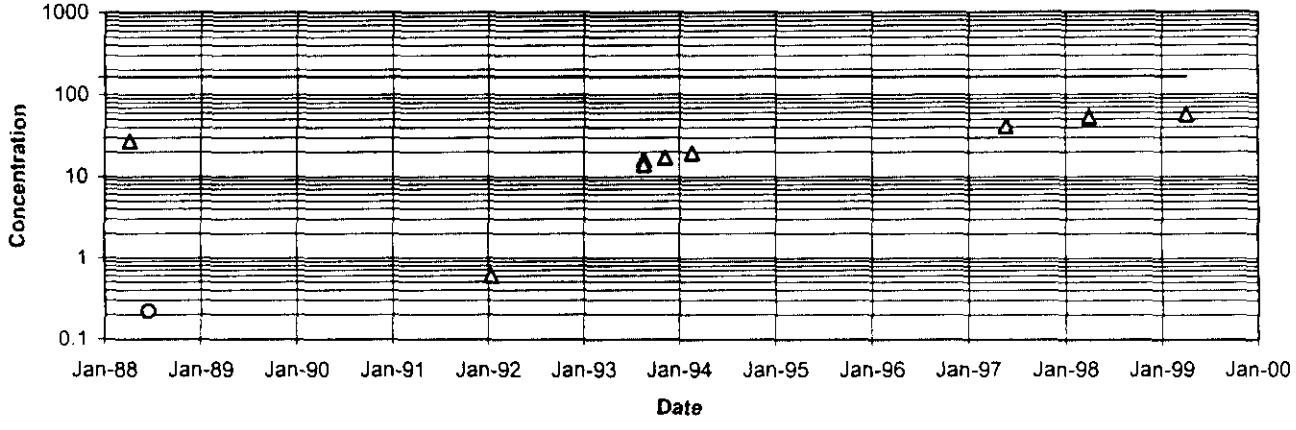
B15R



G109



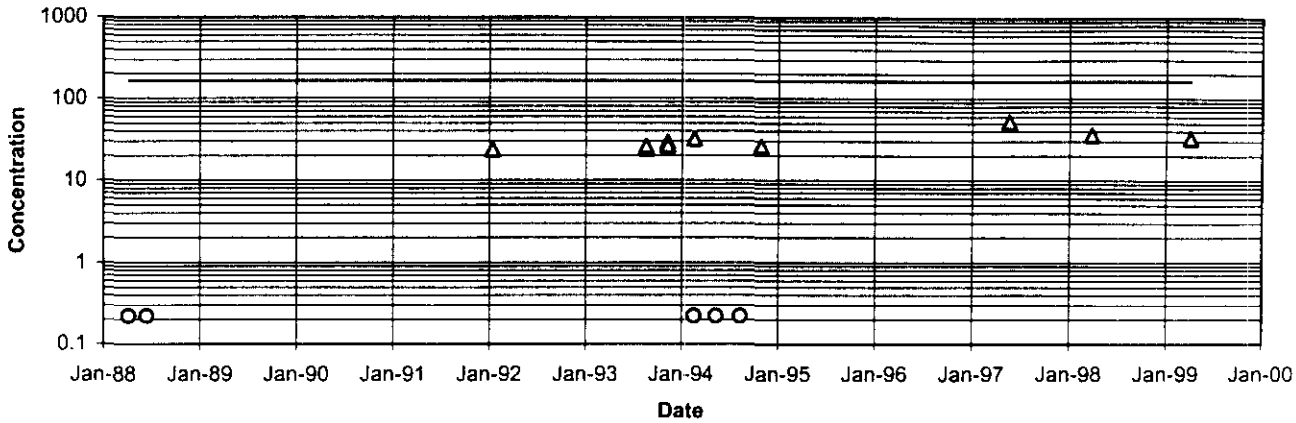
G109A



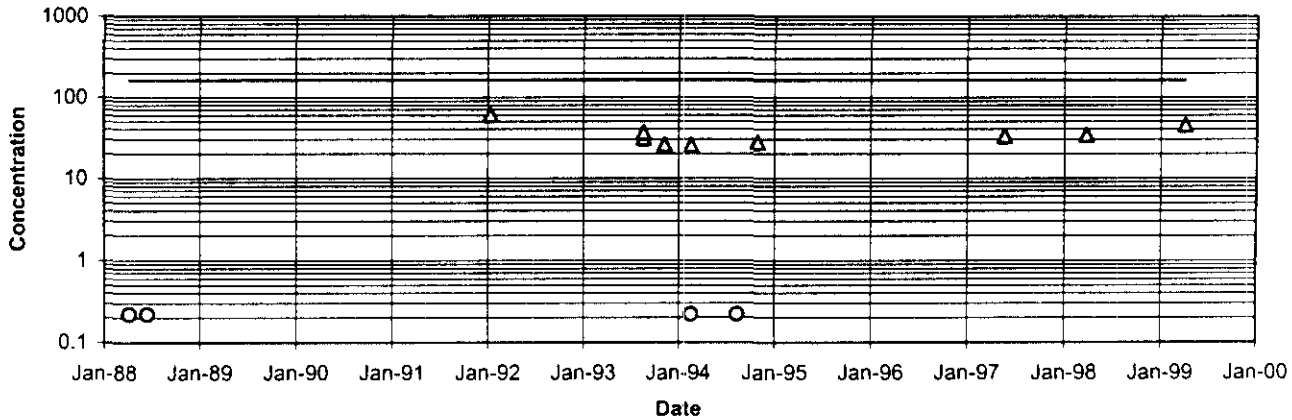
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

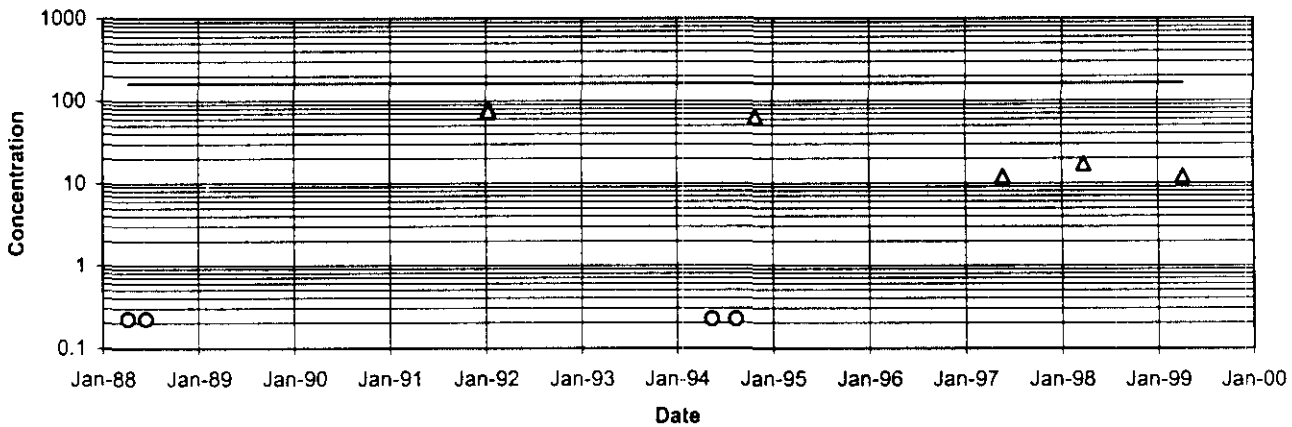
G113



G113A



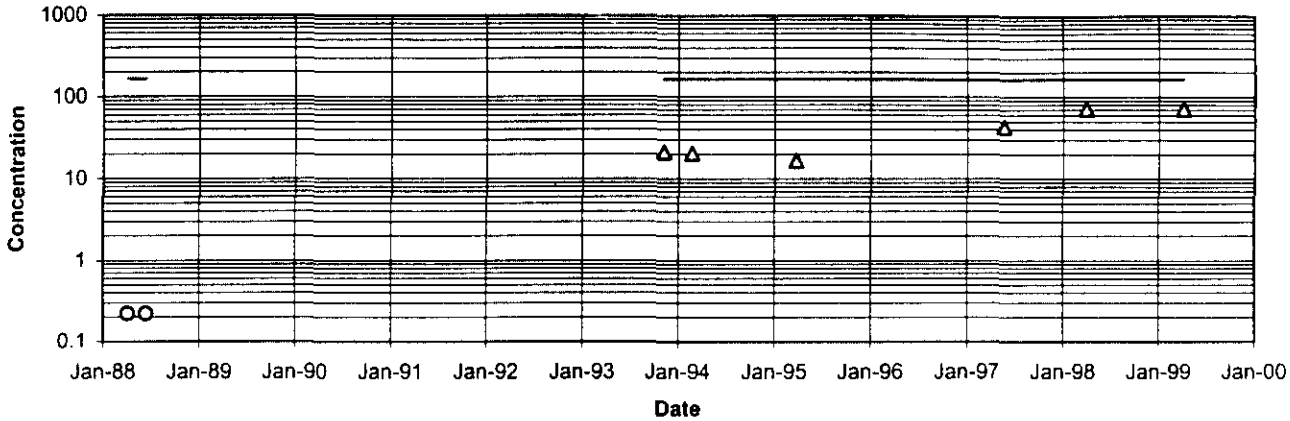
G114



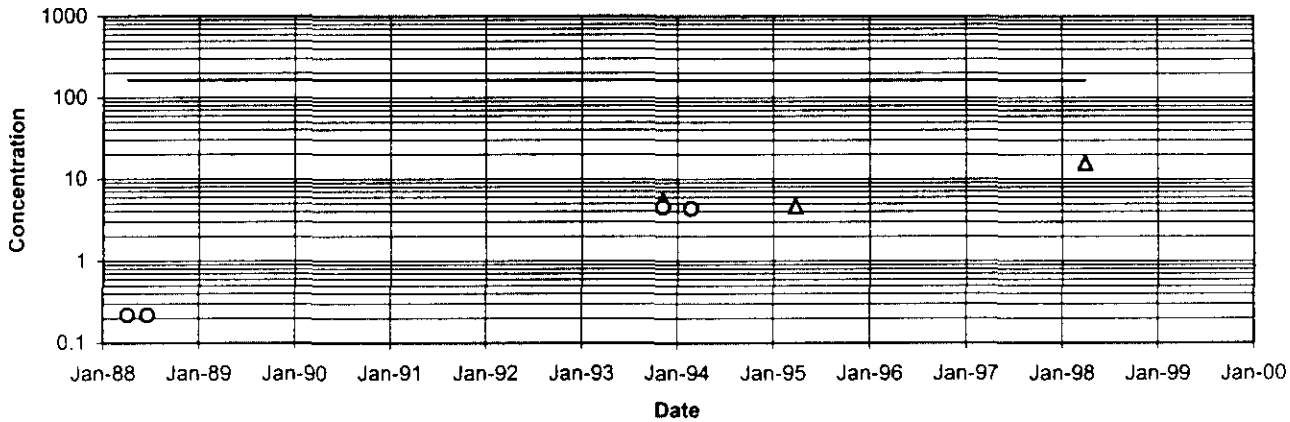
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

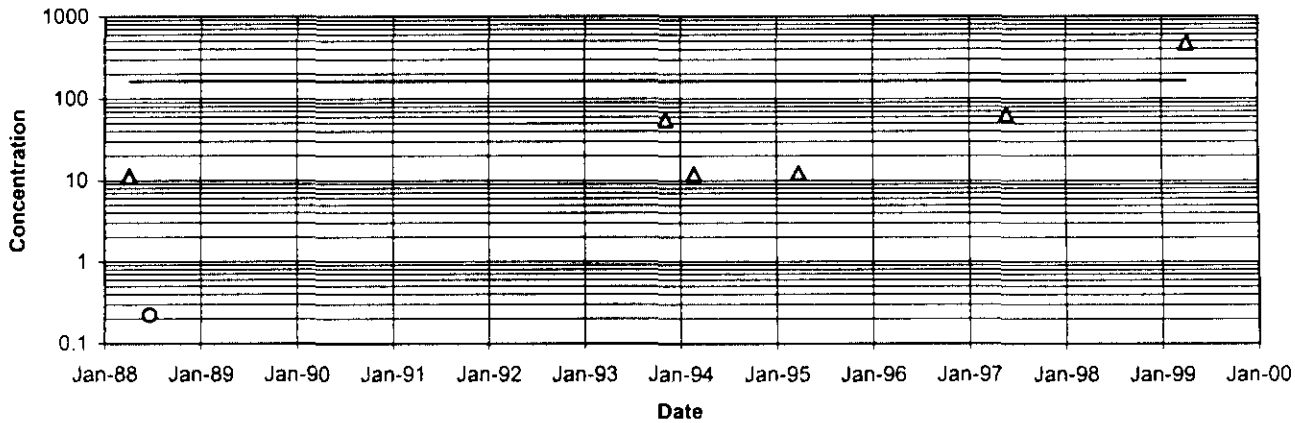
G115



G116



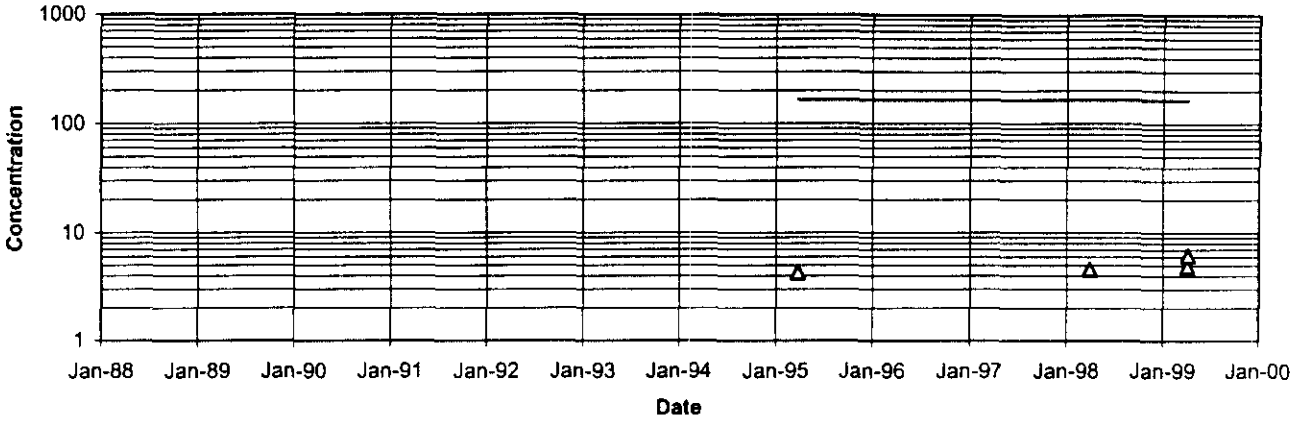
G116A



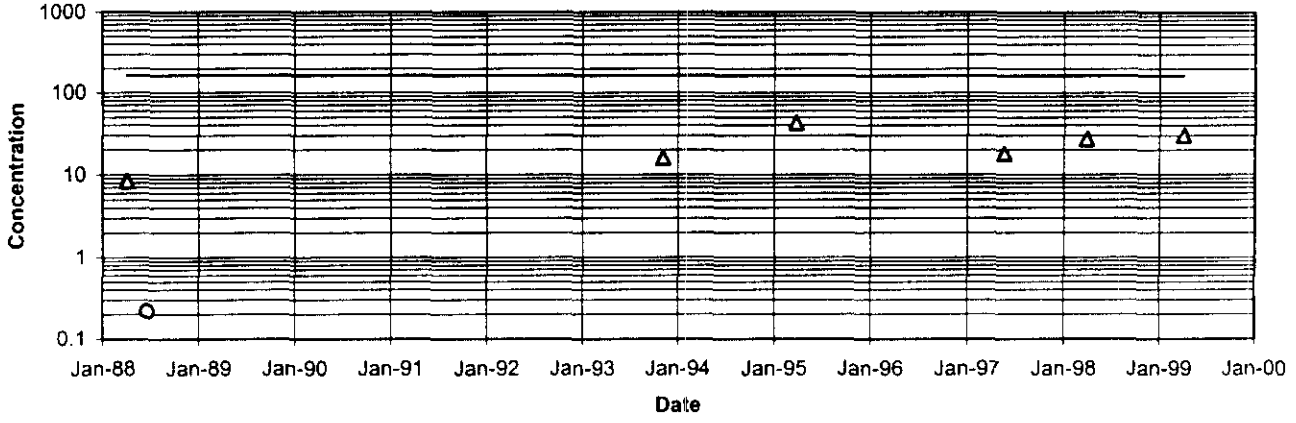
Sodium (mg/L)

AGQS Δ Concentration ○ NonDetect

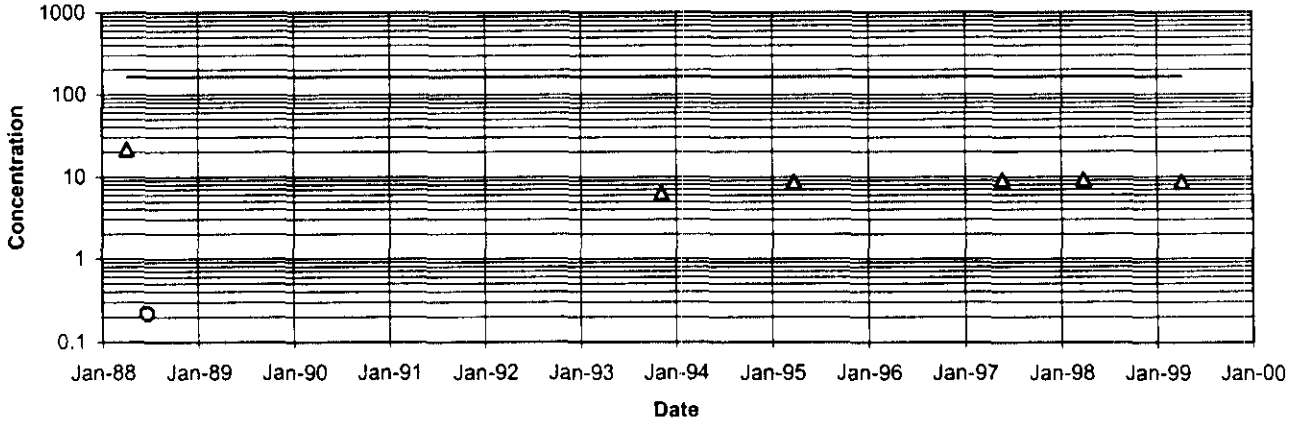
G116D



G117



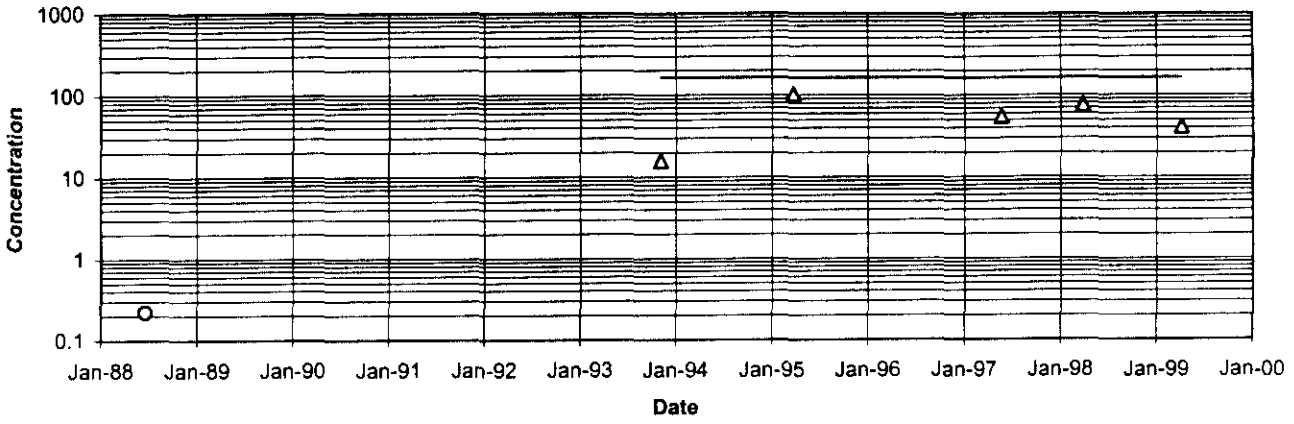
G118A



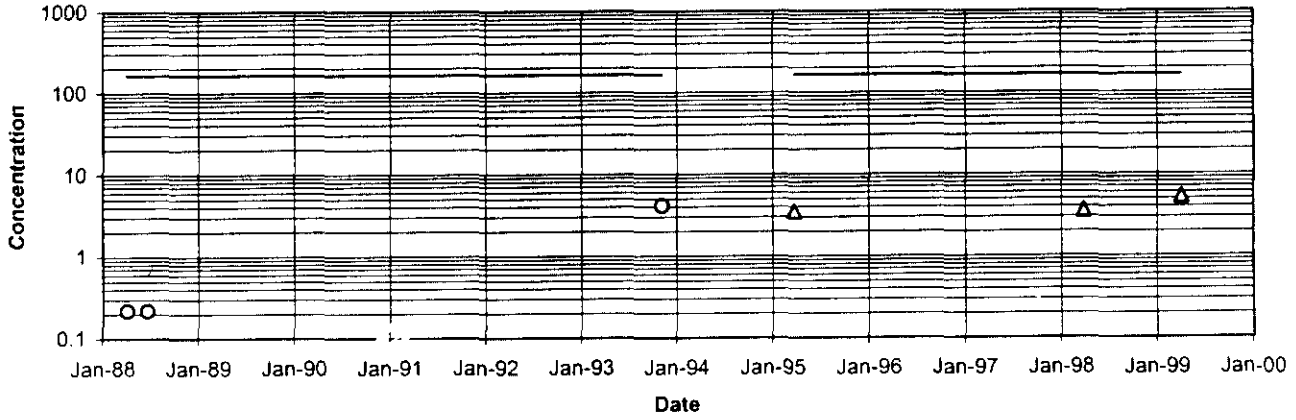
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

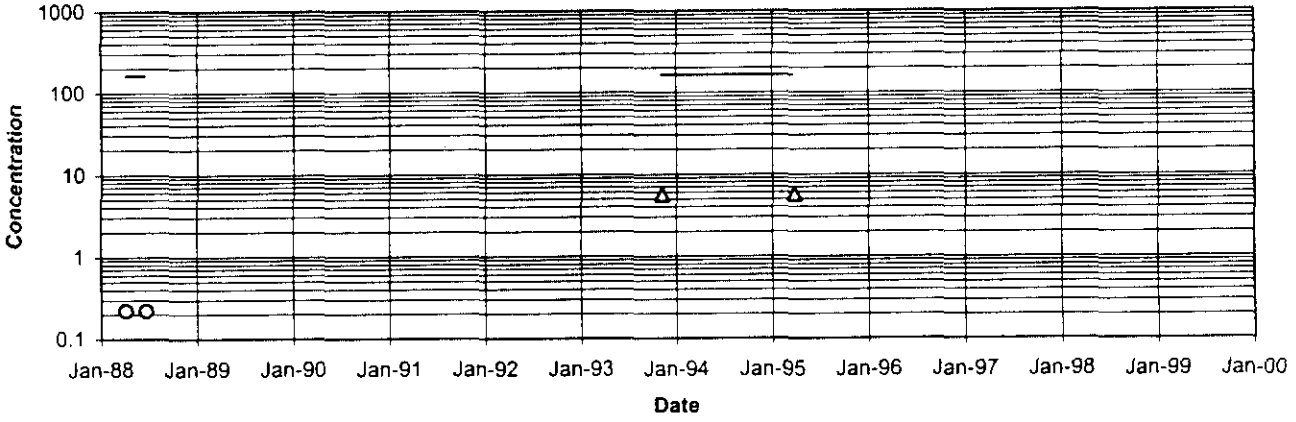
G118R



G119



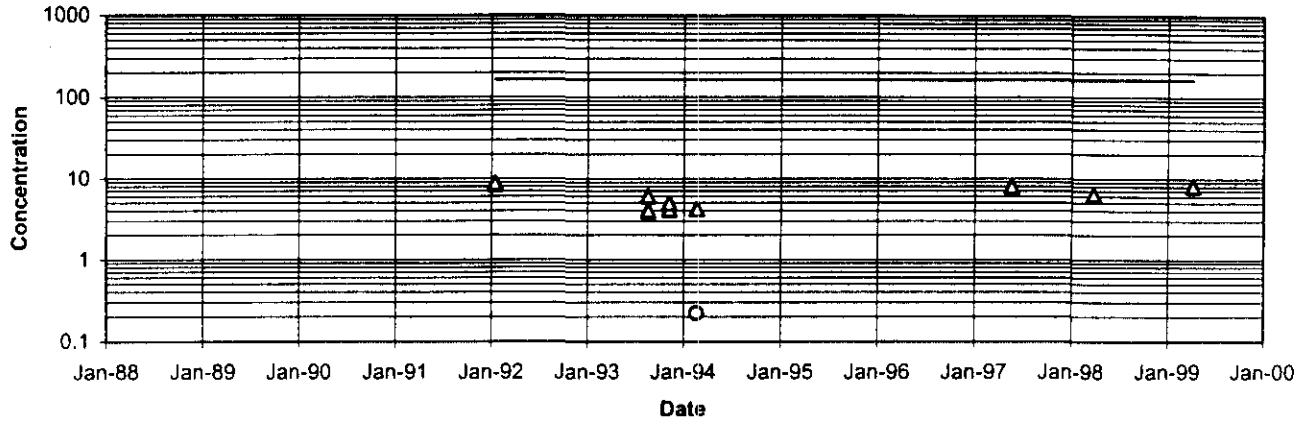
G119A



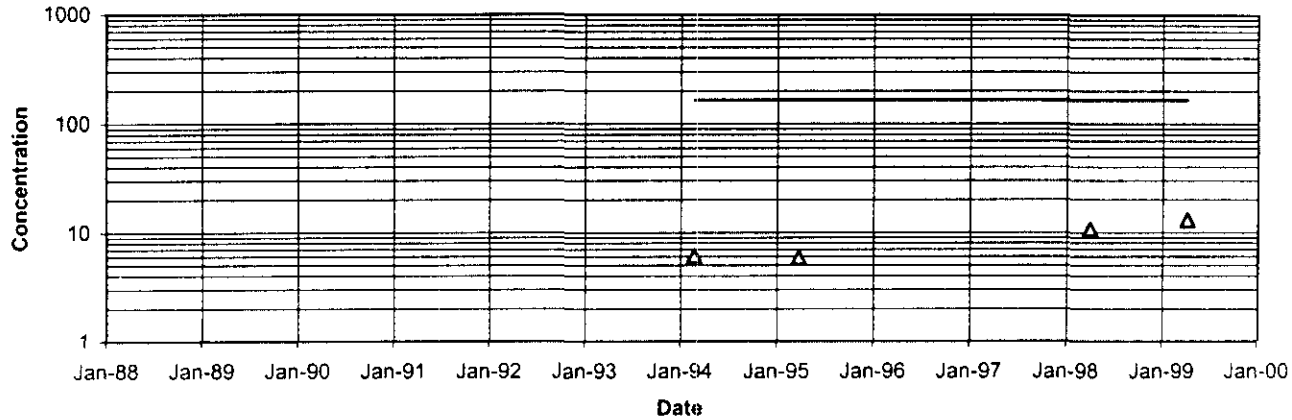
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

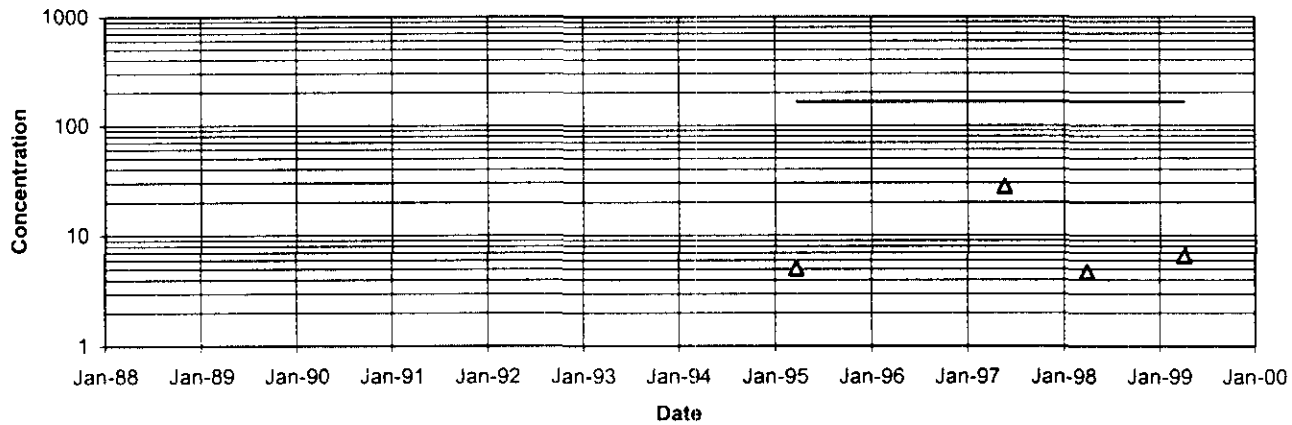
G120B



G130



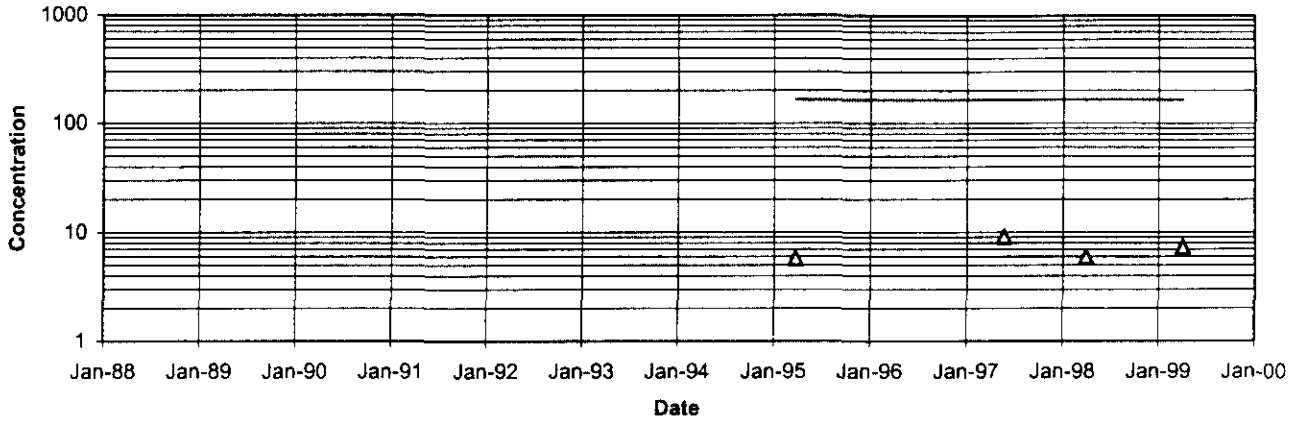
G132



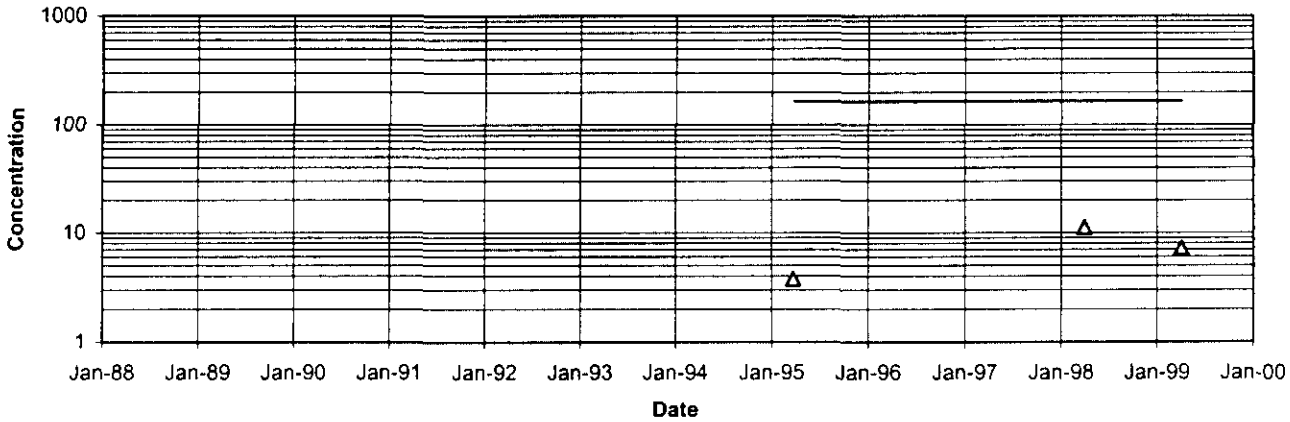
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

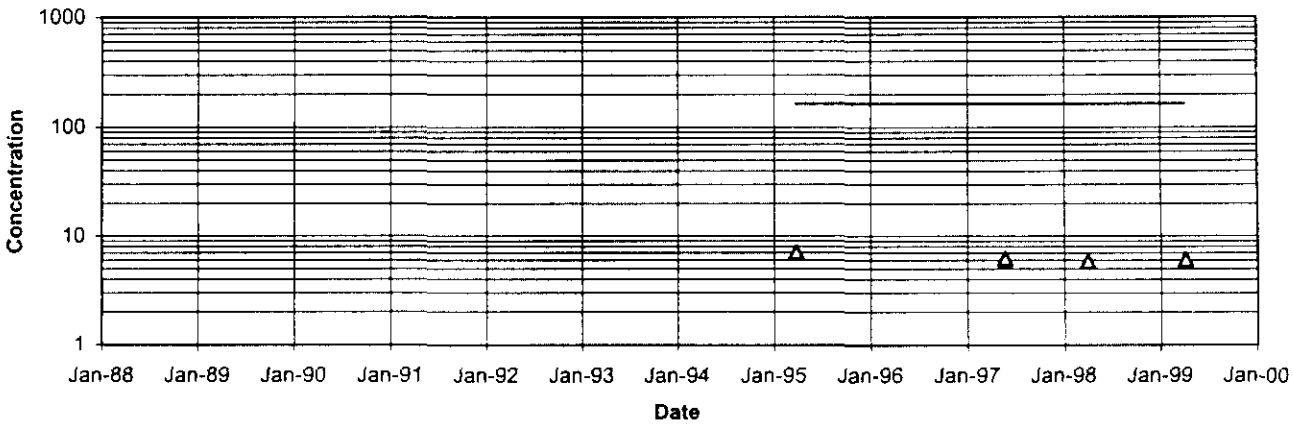
G33D



G33S



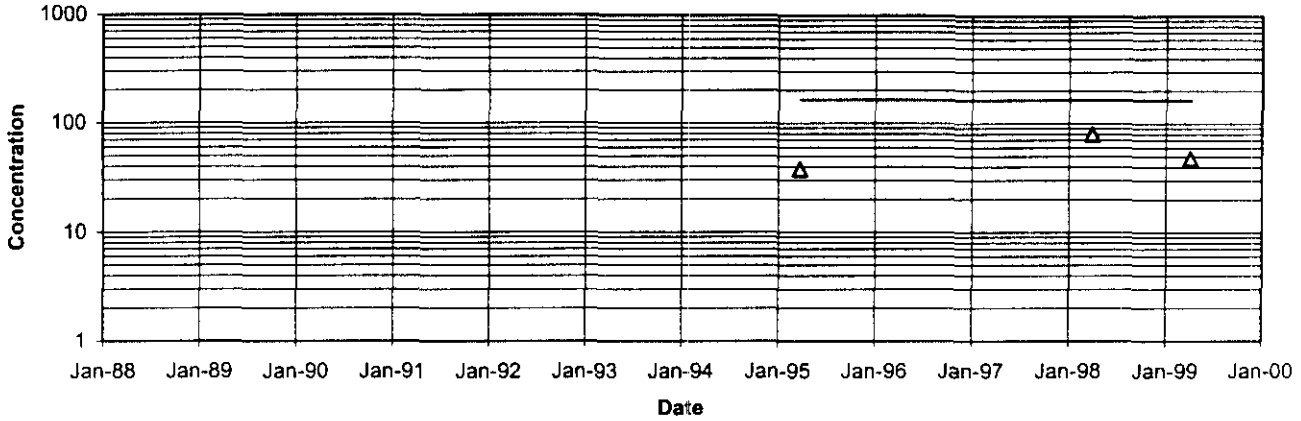
G34D



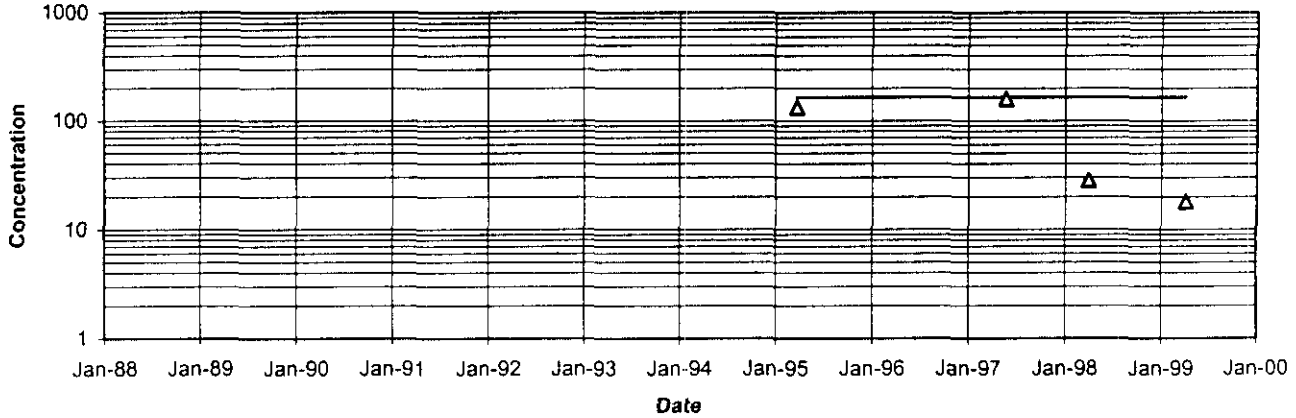
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

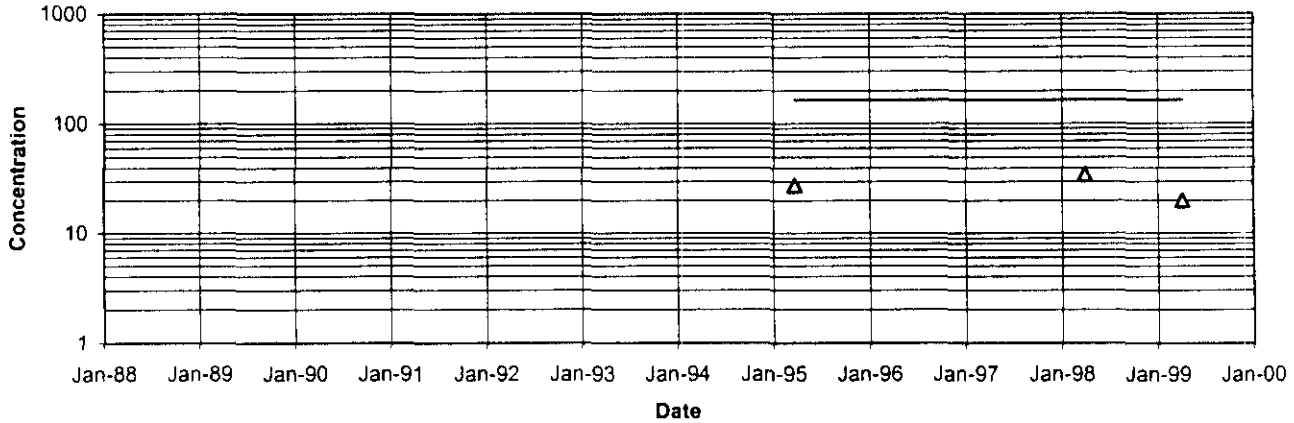
G34S



G35D



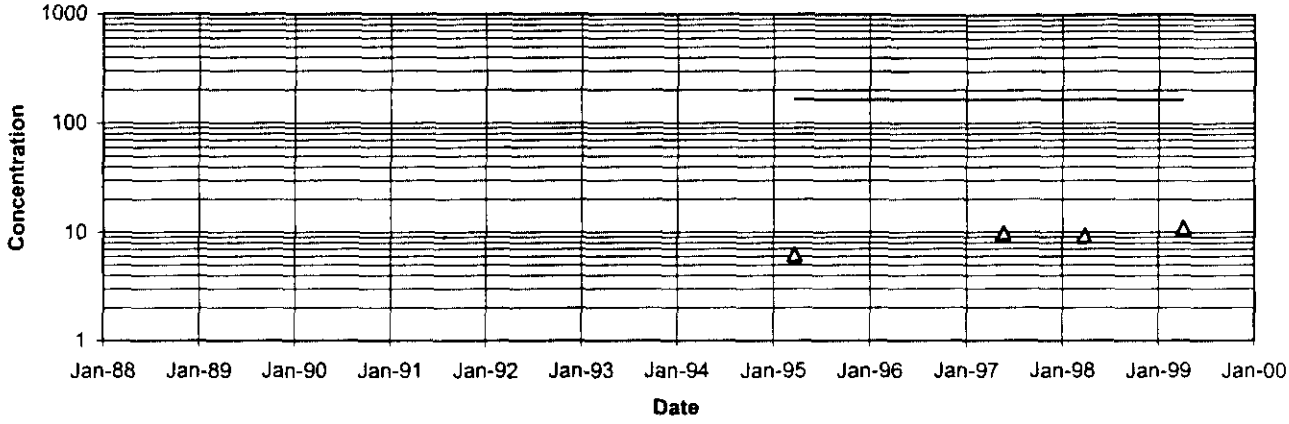
G35S



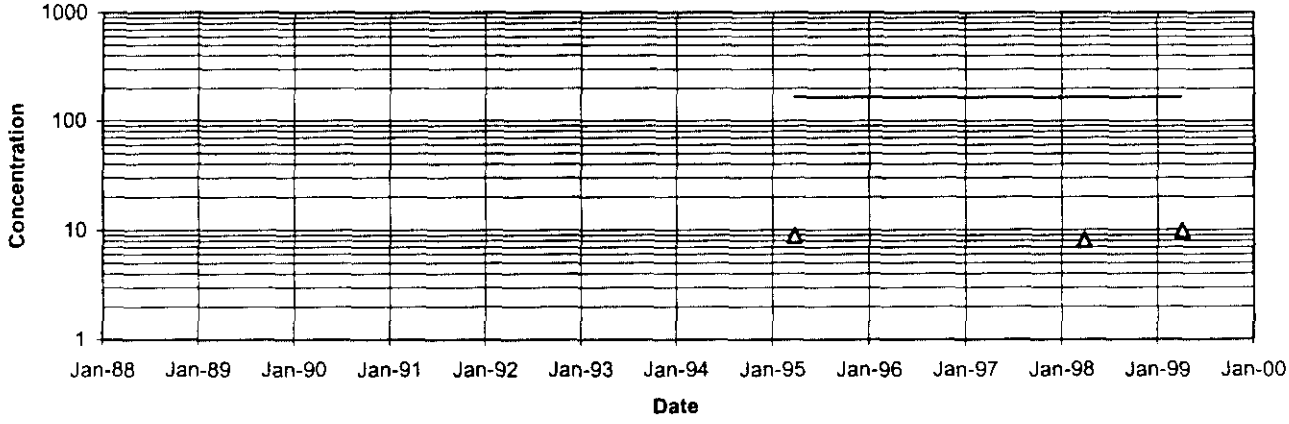
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

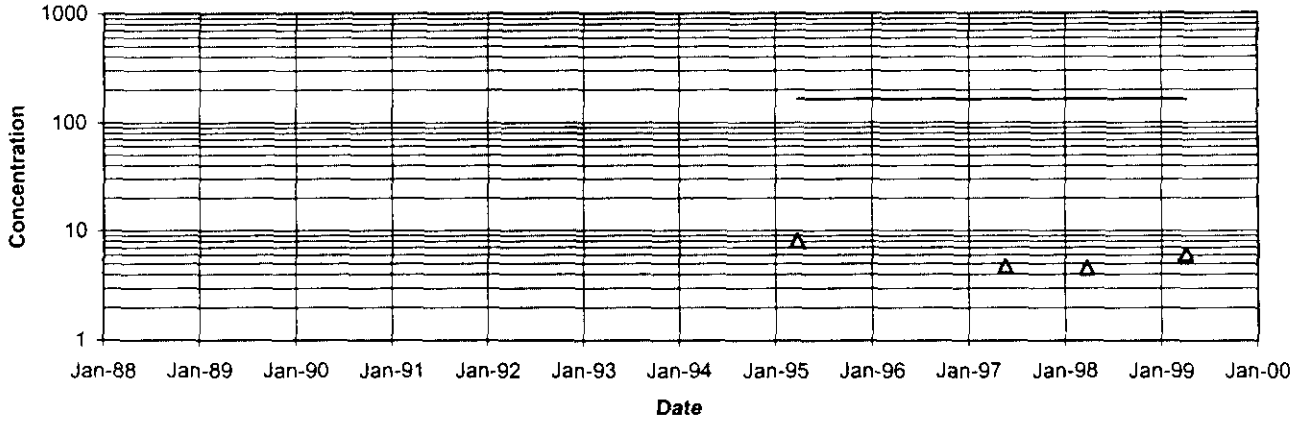
G36



G37D



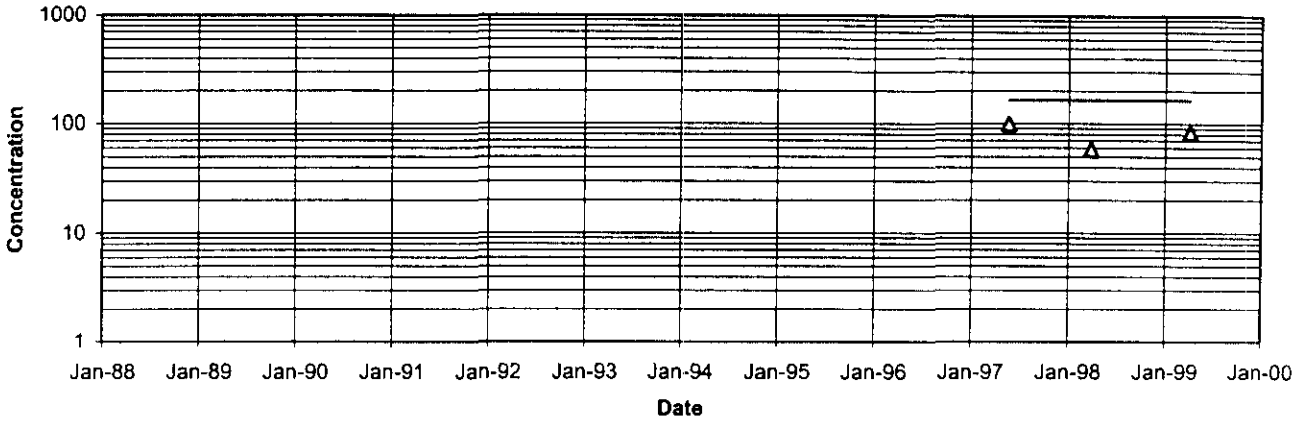
G37S



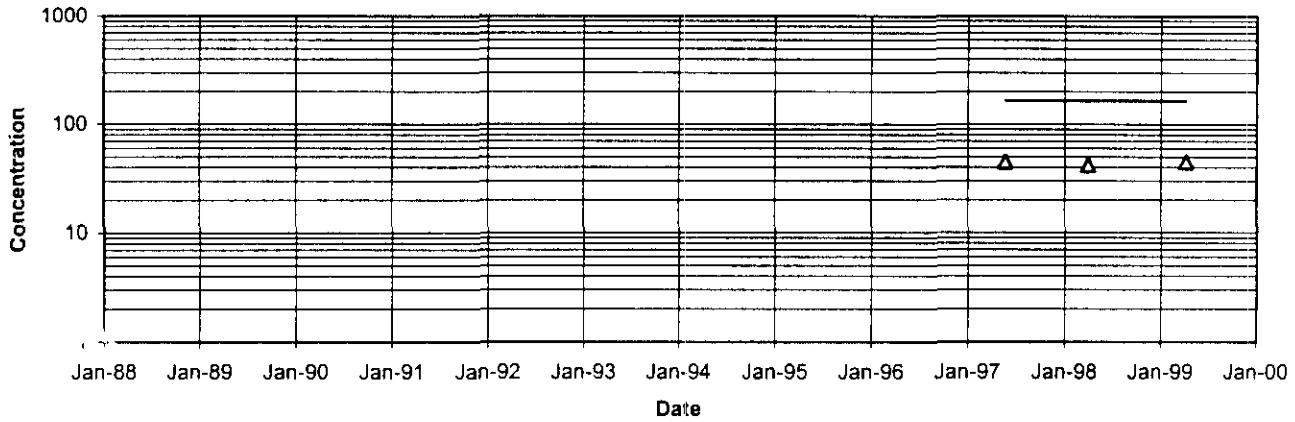
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

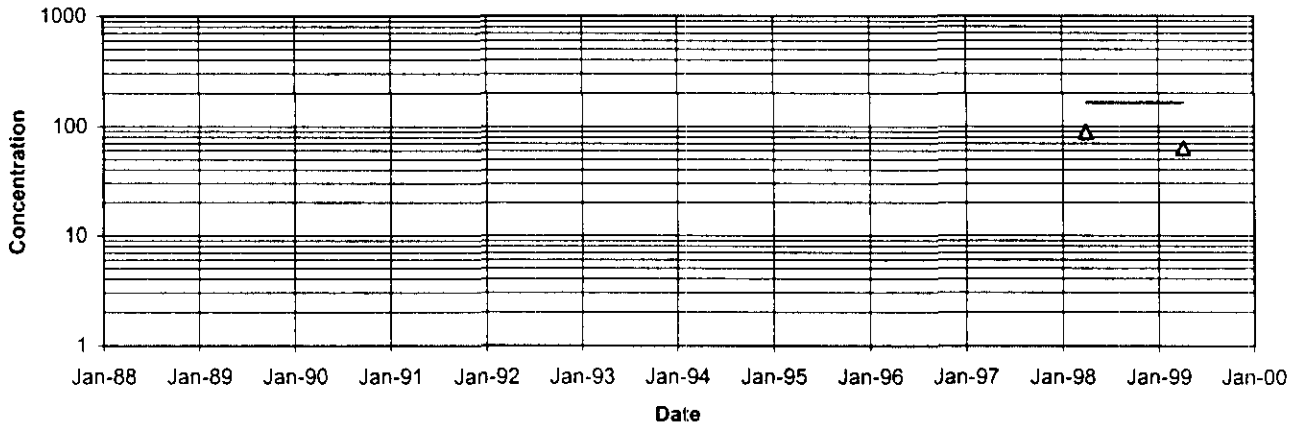
G38



G39



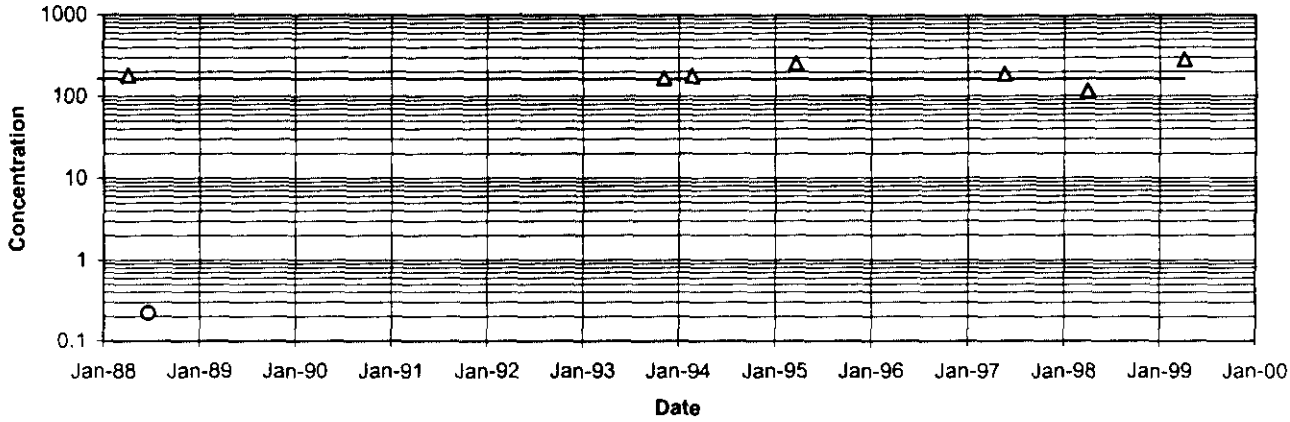
G40



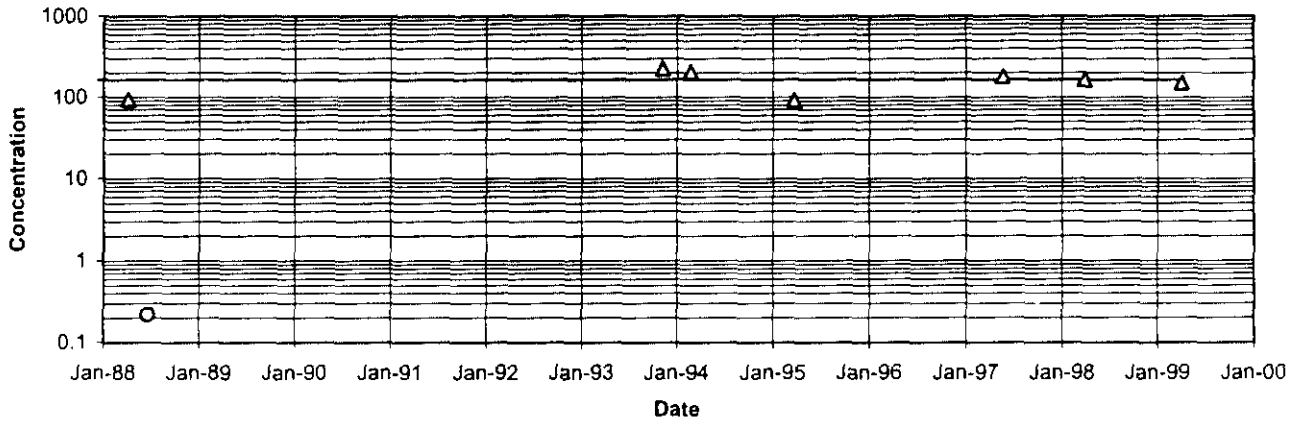
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

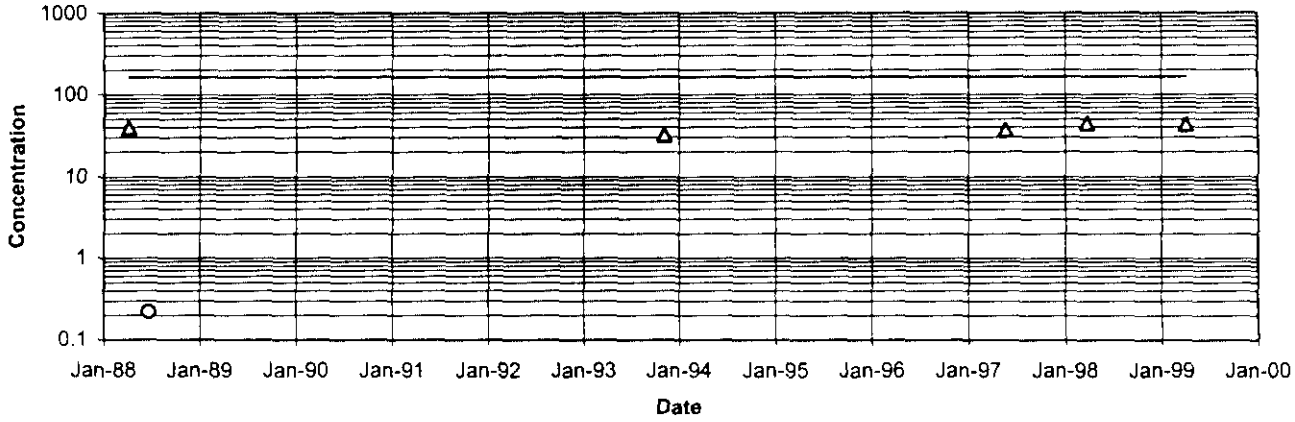
MW106



P1



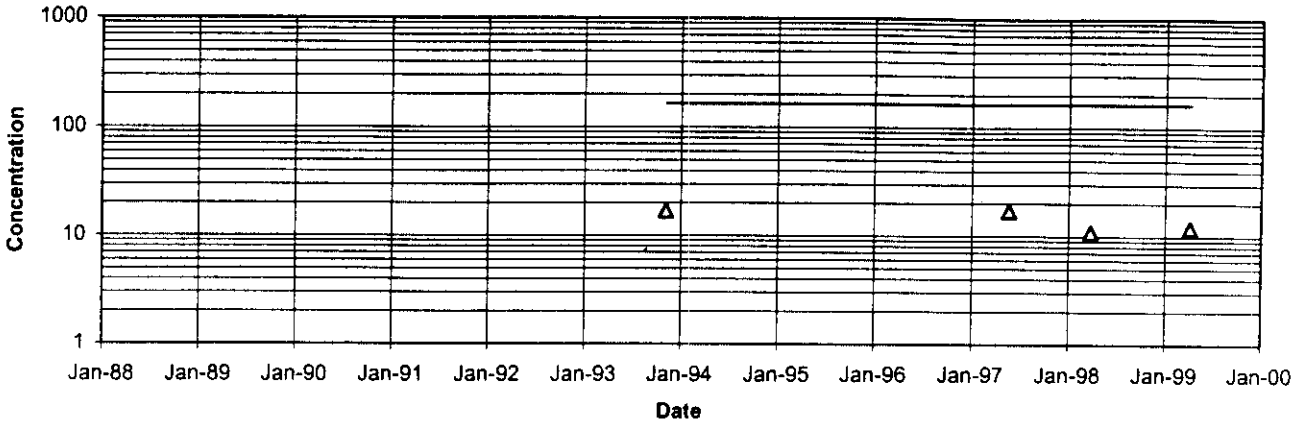
P3R



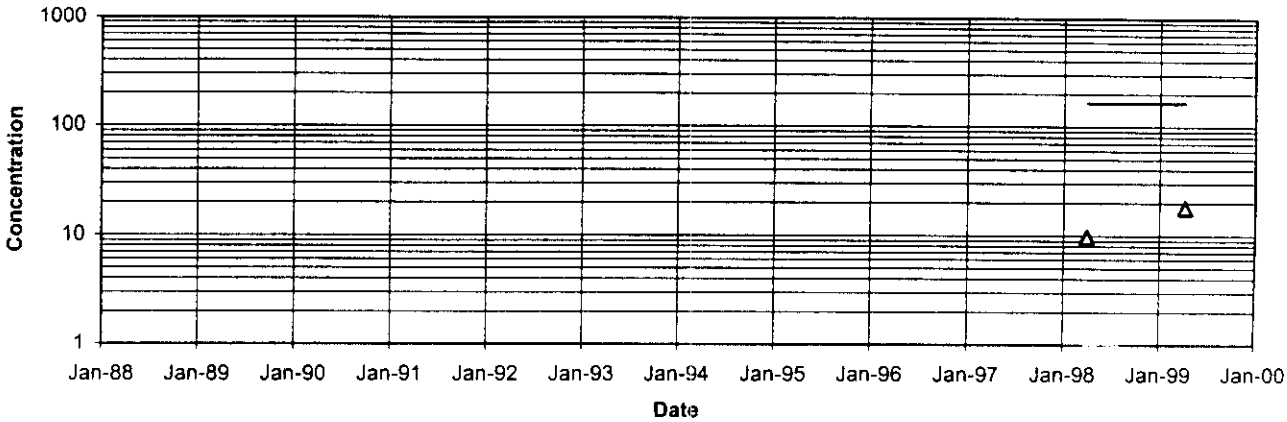
Sodium (mg/L)

AGQS Δ Concentration O NonDetect

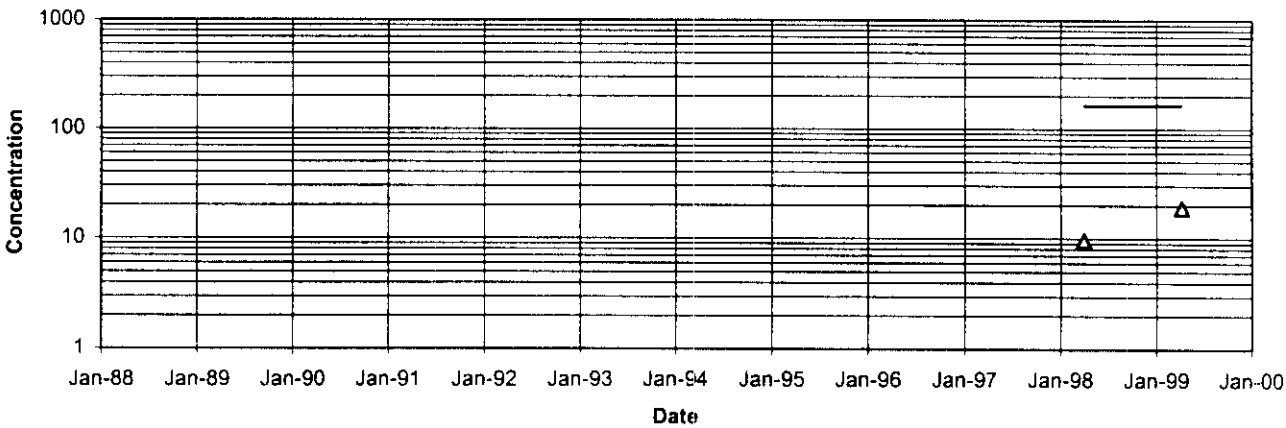
P4R

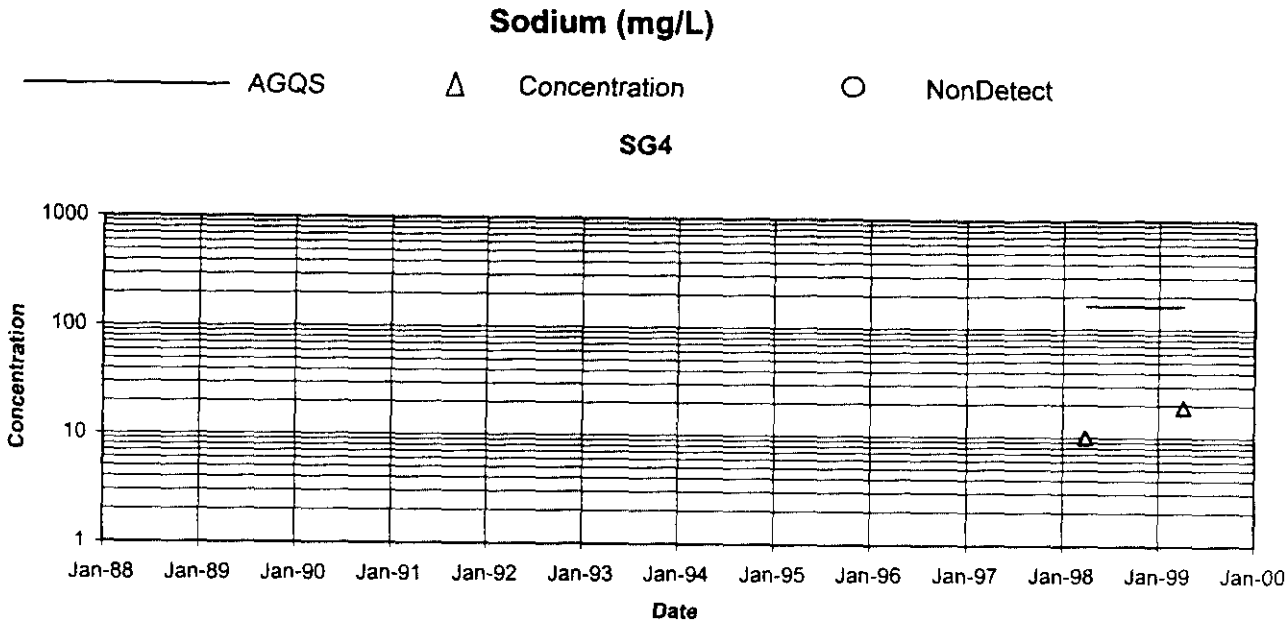


SG1



SG3

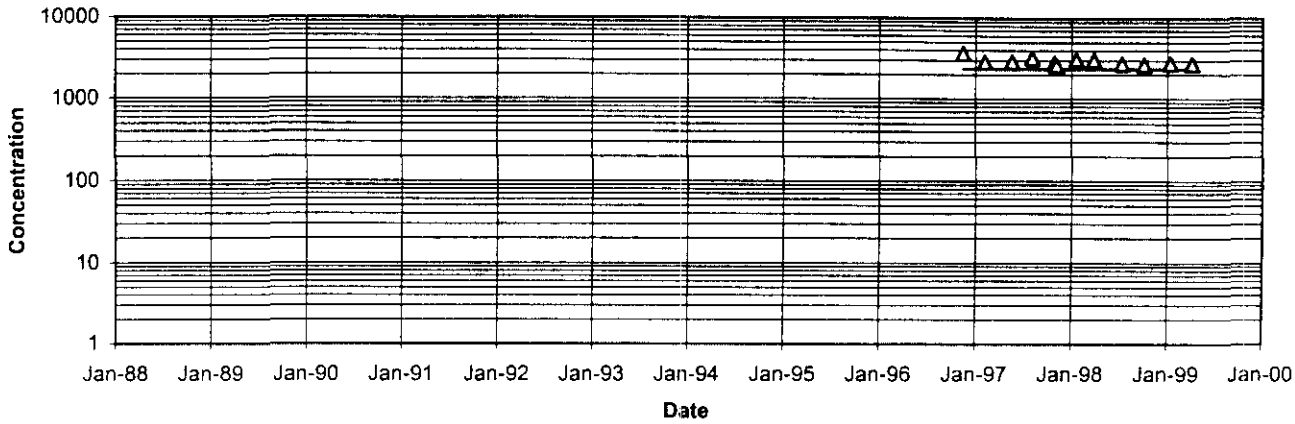



Sodium (mg/L)
AGQS
Concentration
NonDetect
SG4
1000
100
10
1
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

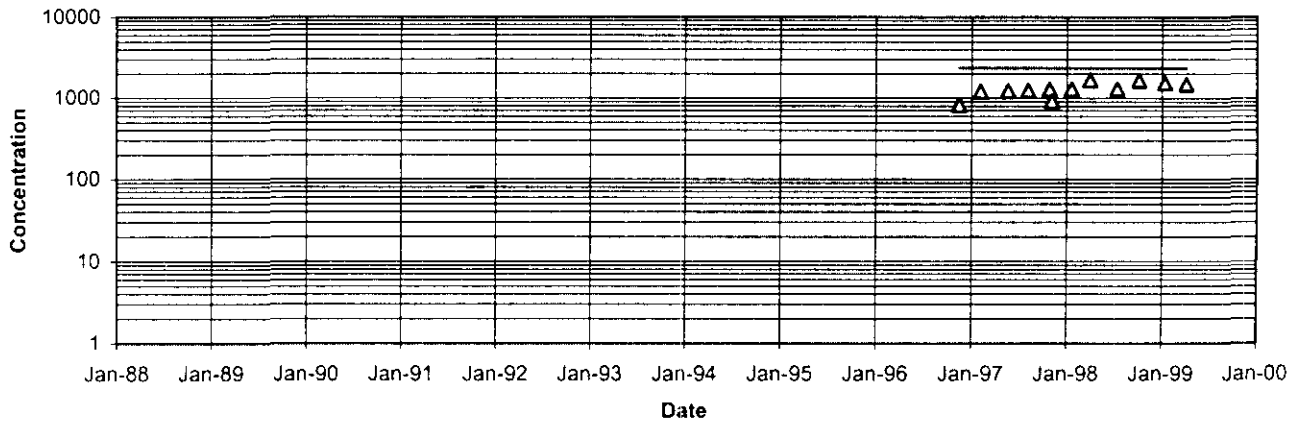
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

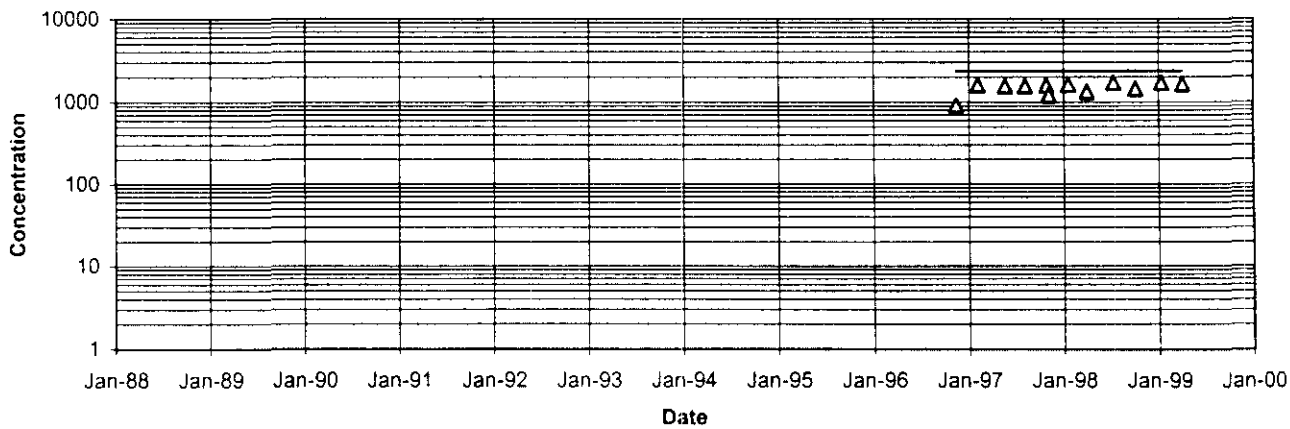
B15R



G109



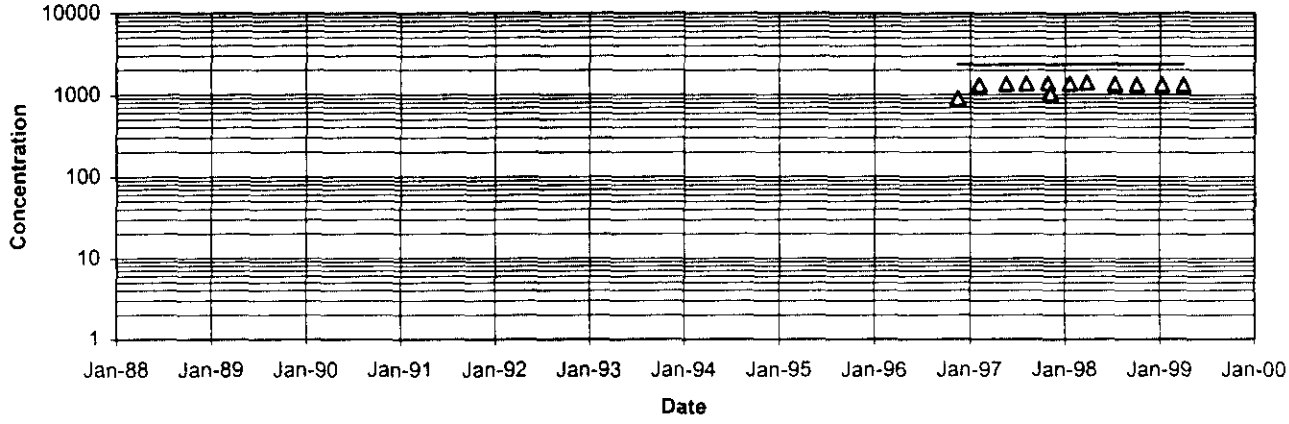
G109A



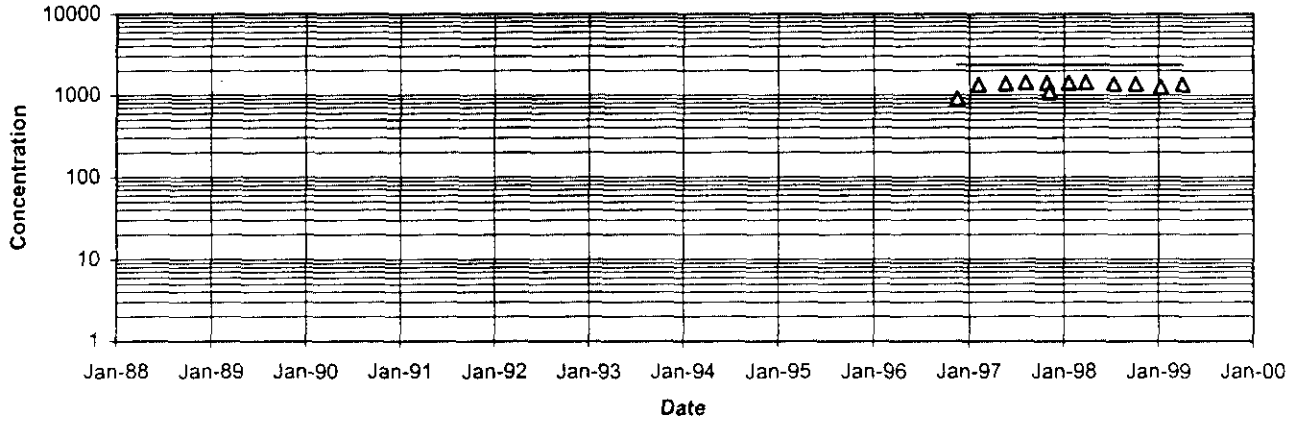
Specific Conductance (umhos)

AGQS Δ Concentration ○ NonDetect

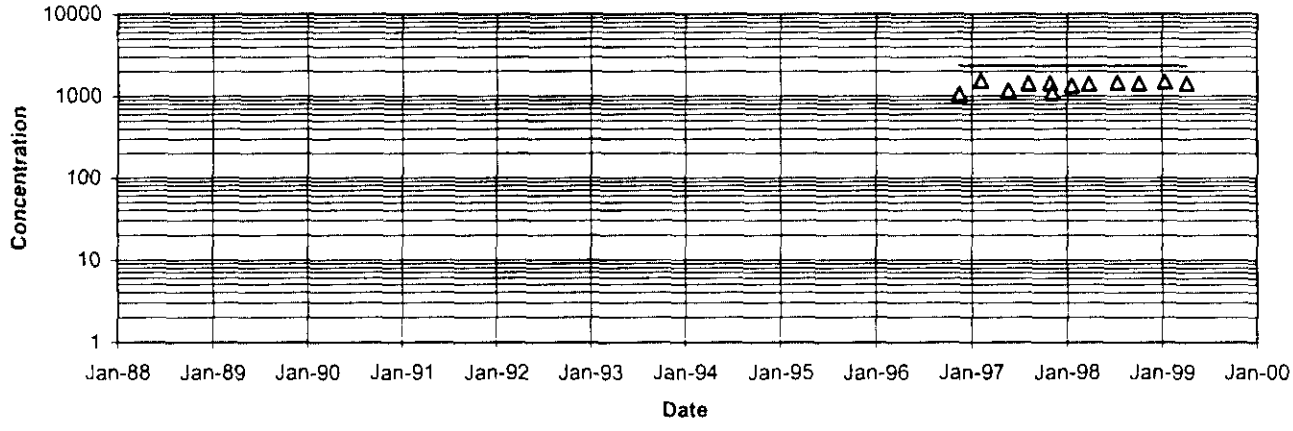
G113



G113A



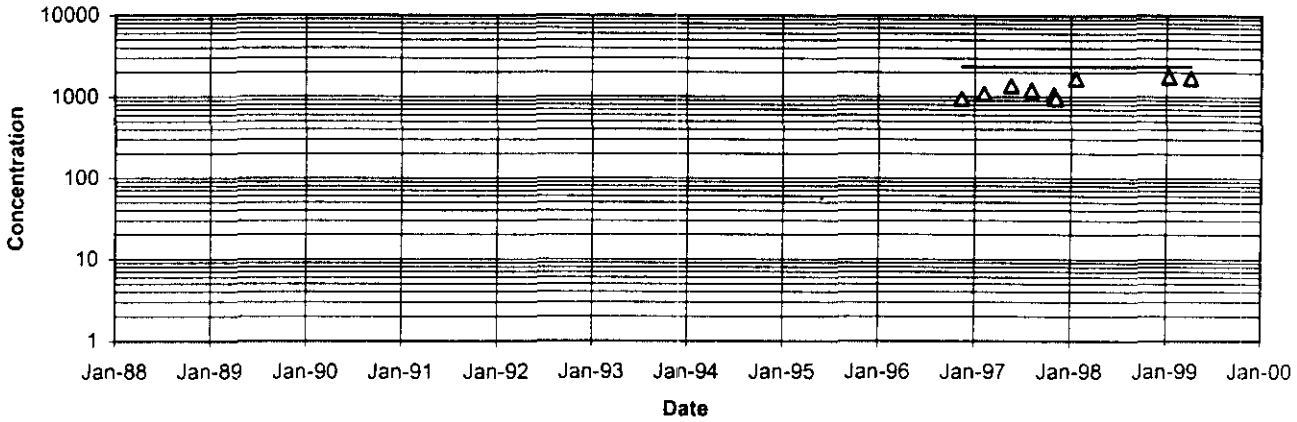
G114



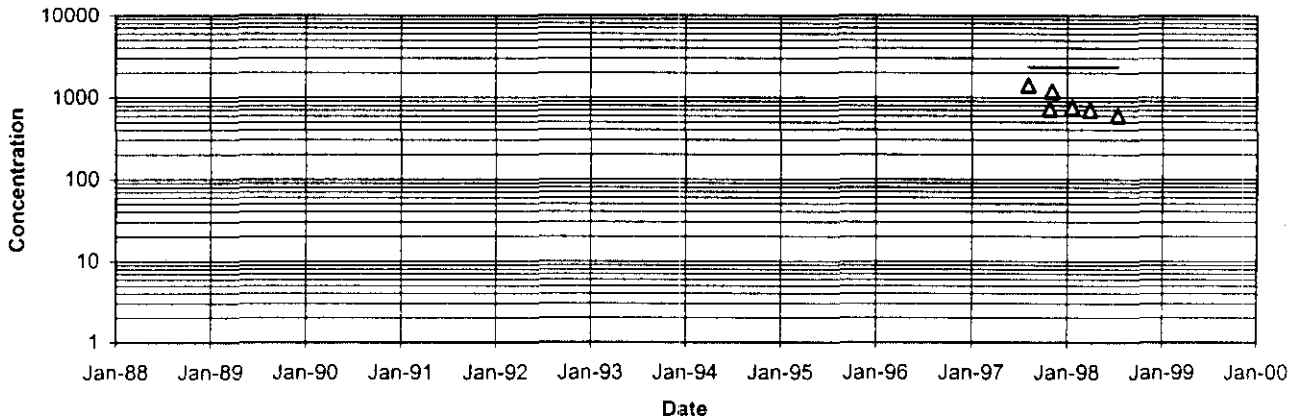
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

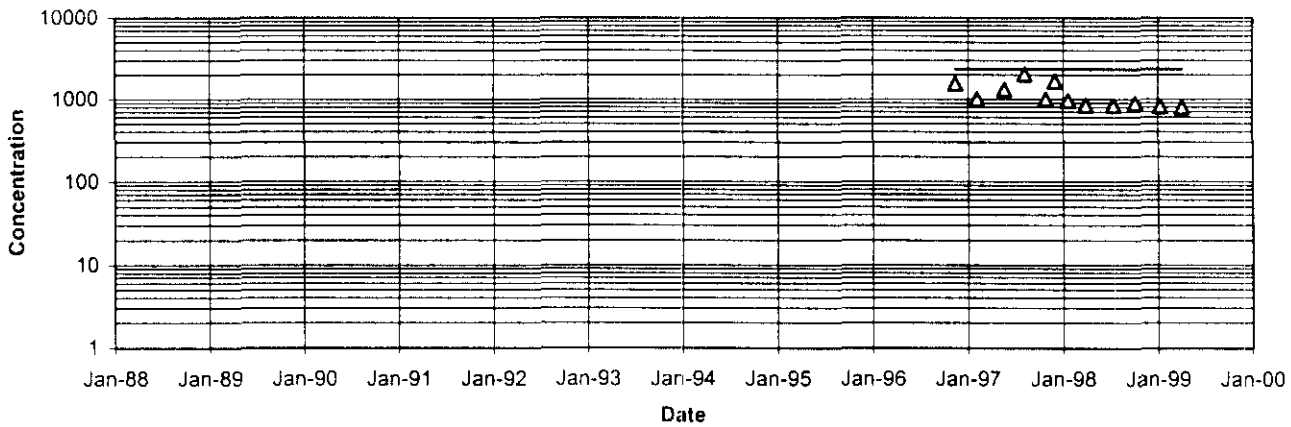
G115



G116



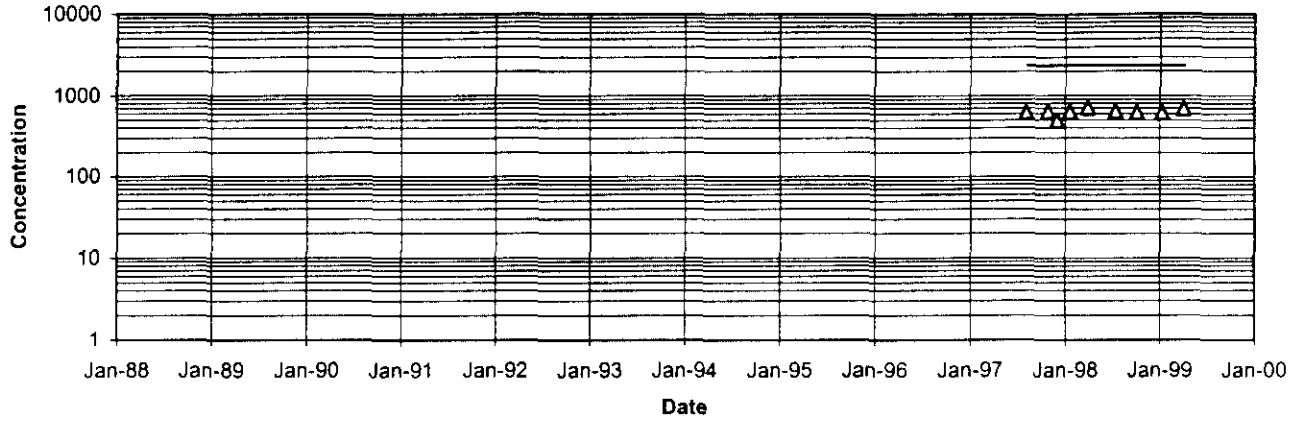
G116A



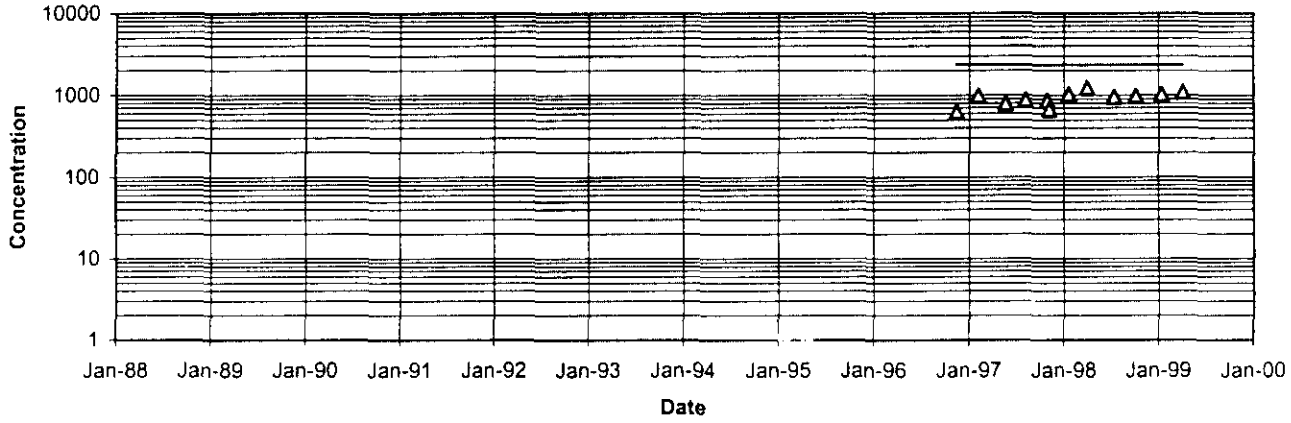
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

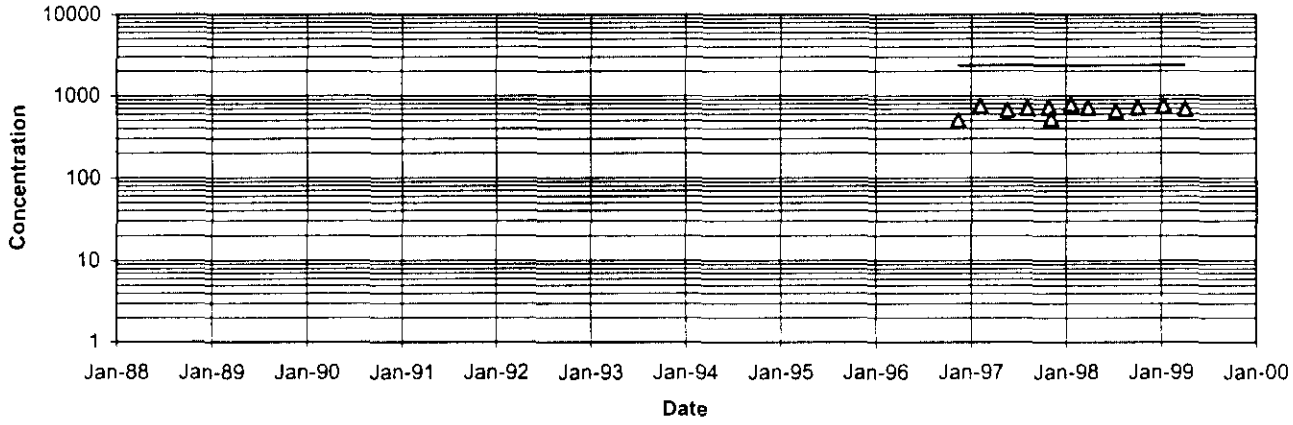
G116D



G117



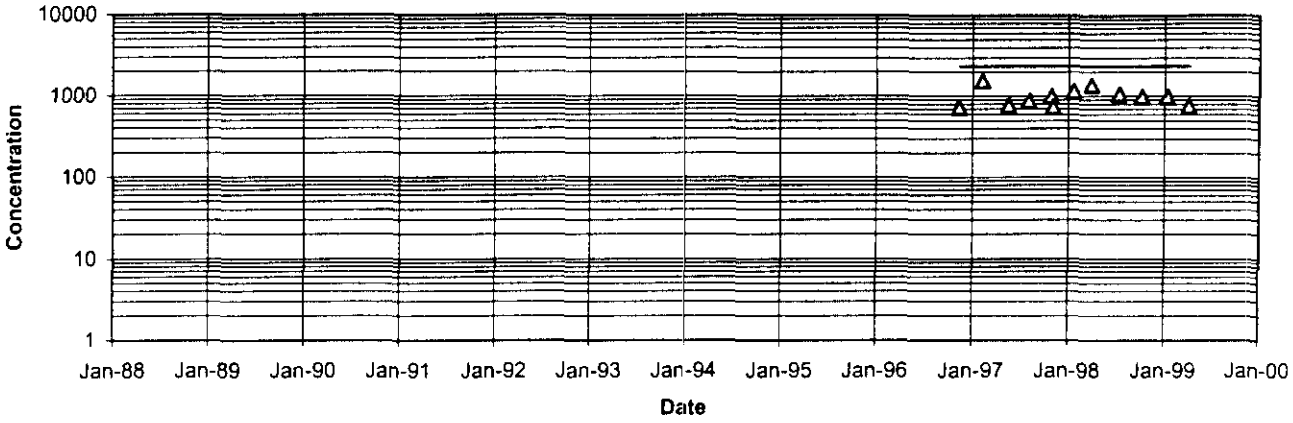
G118A



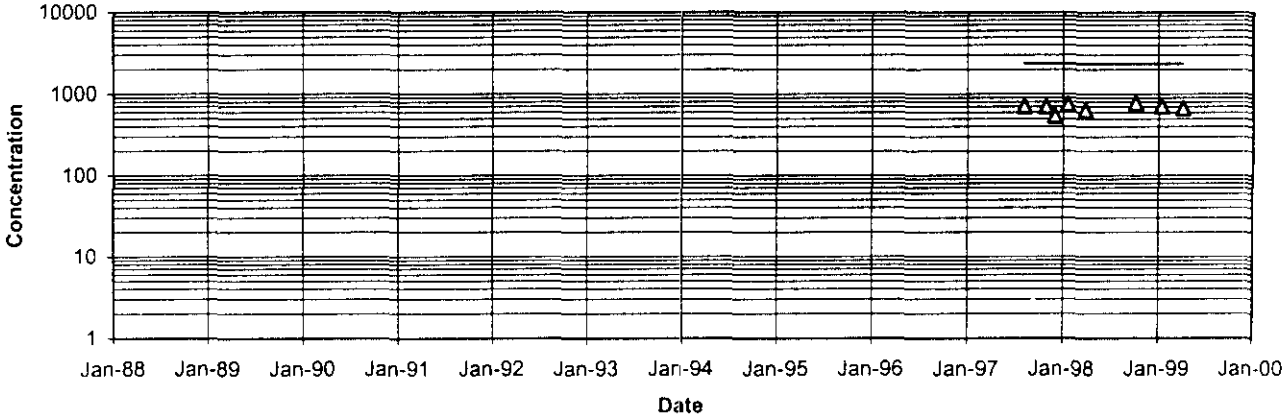
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

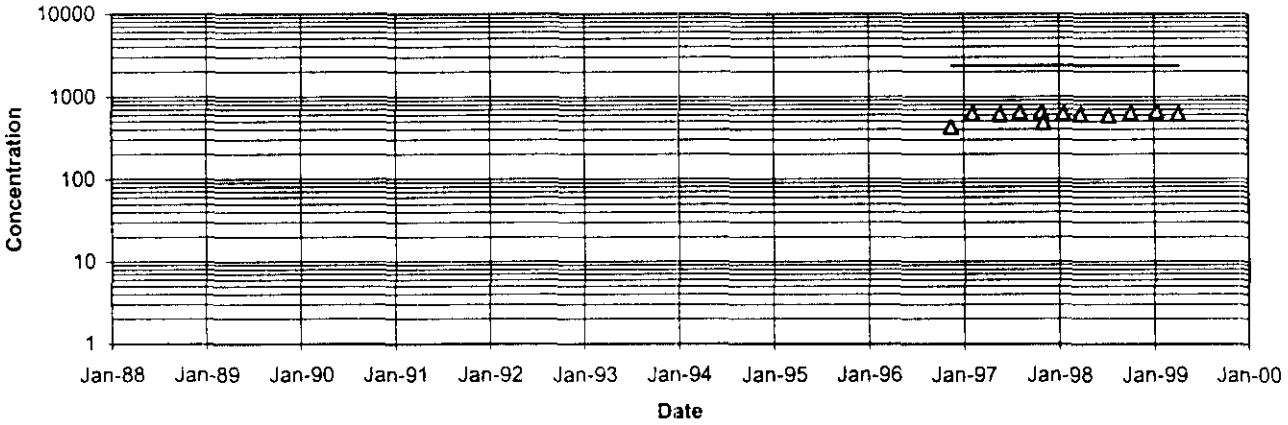
G118R



G119



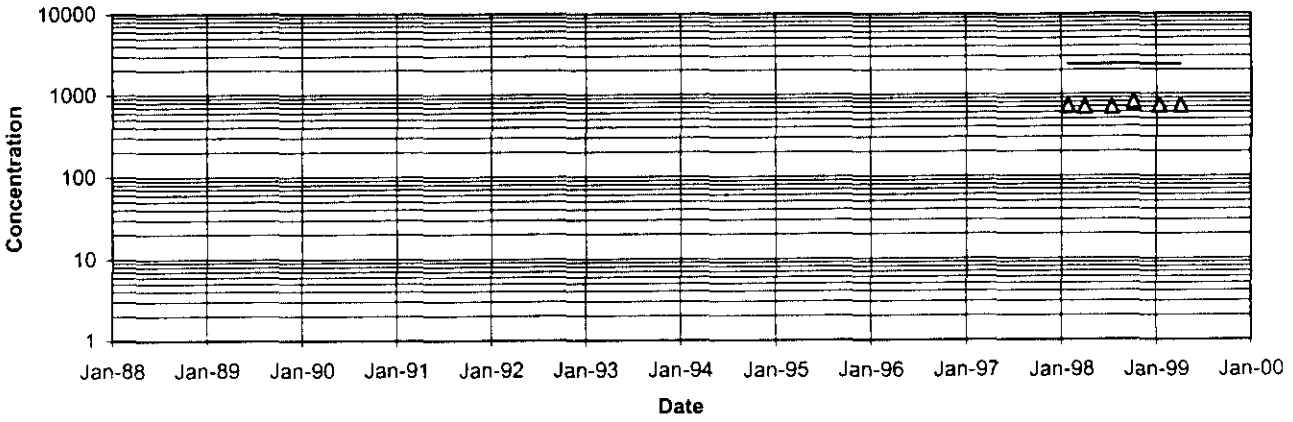
G120B



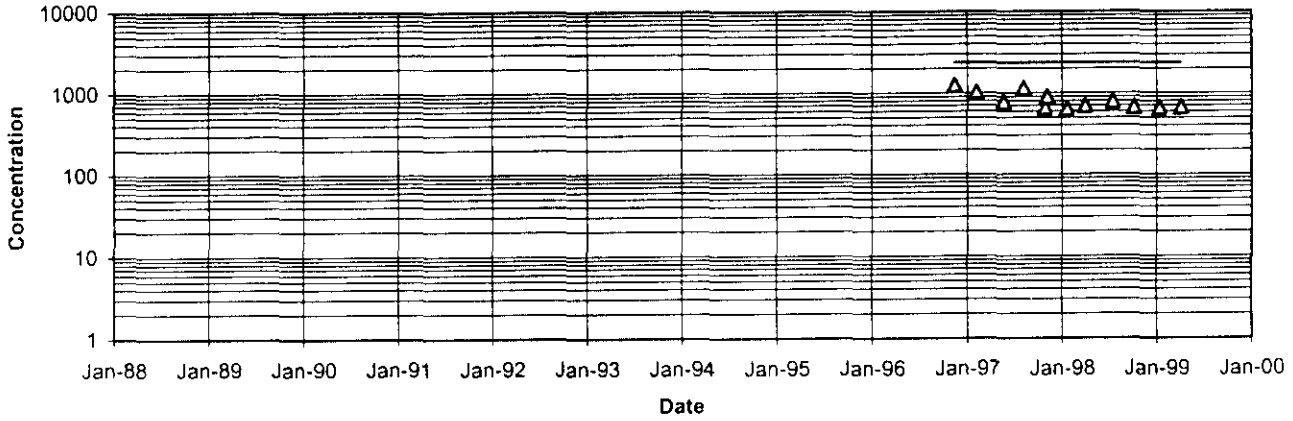
Specific Conductance (umhos)

AGQS Δ Concentration ○ NonDetect

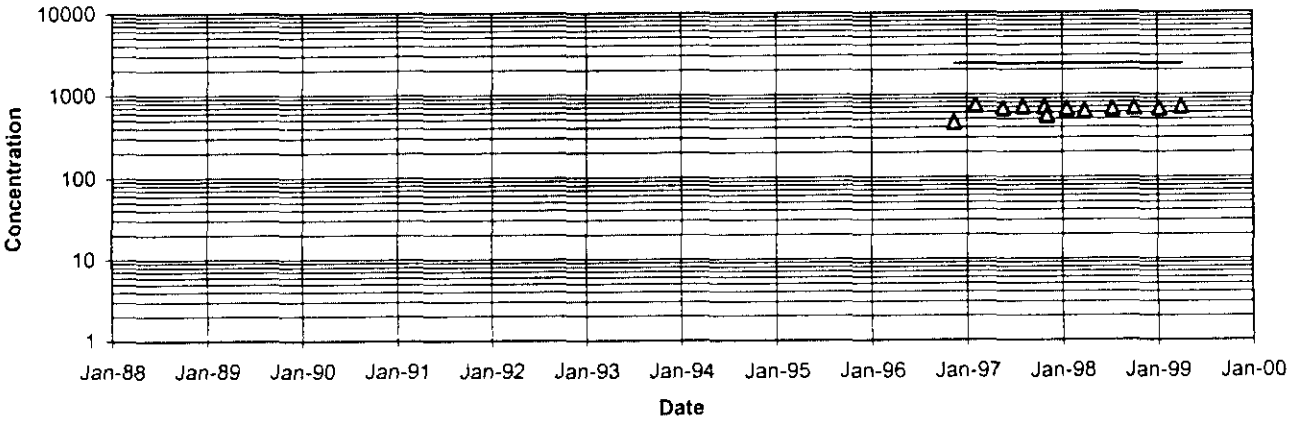
G130



G132



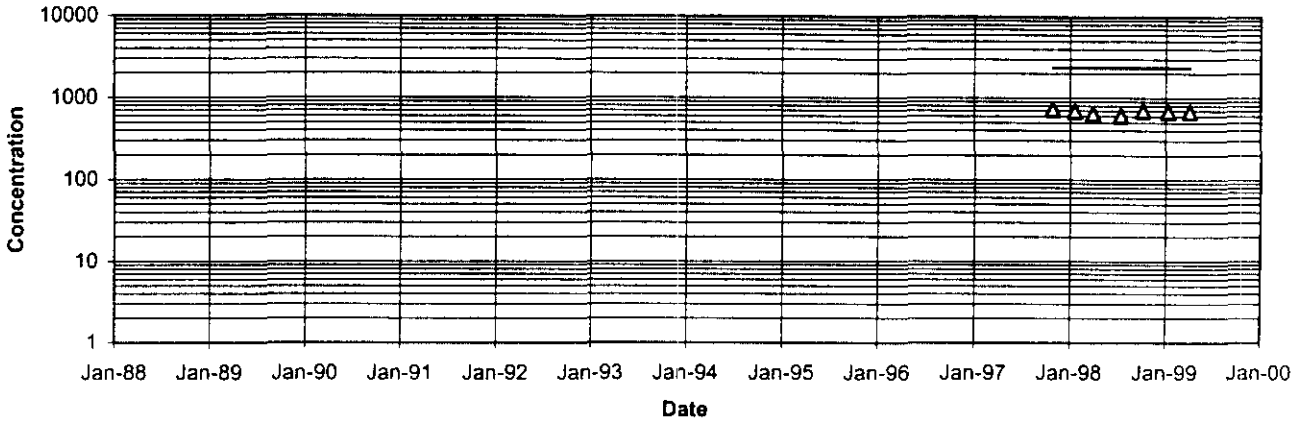
G33D



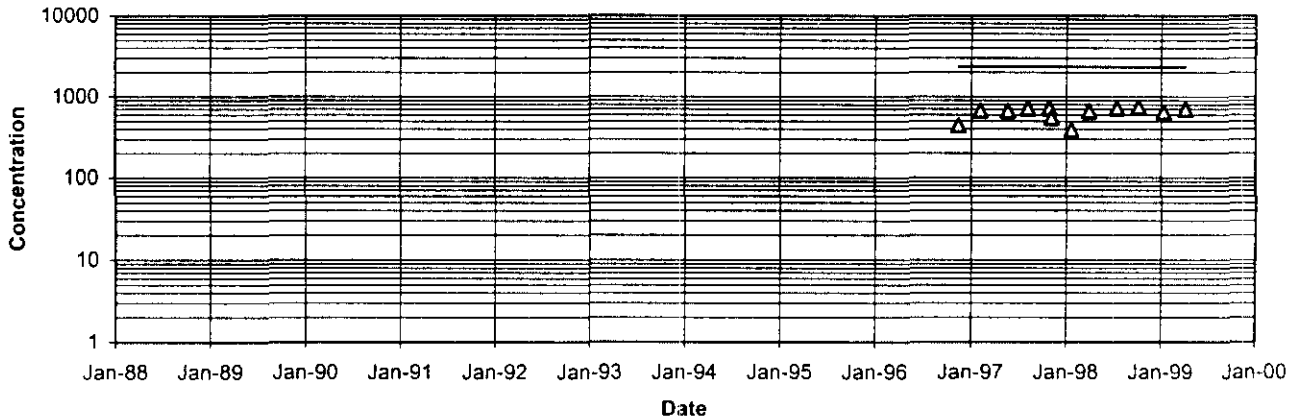
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

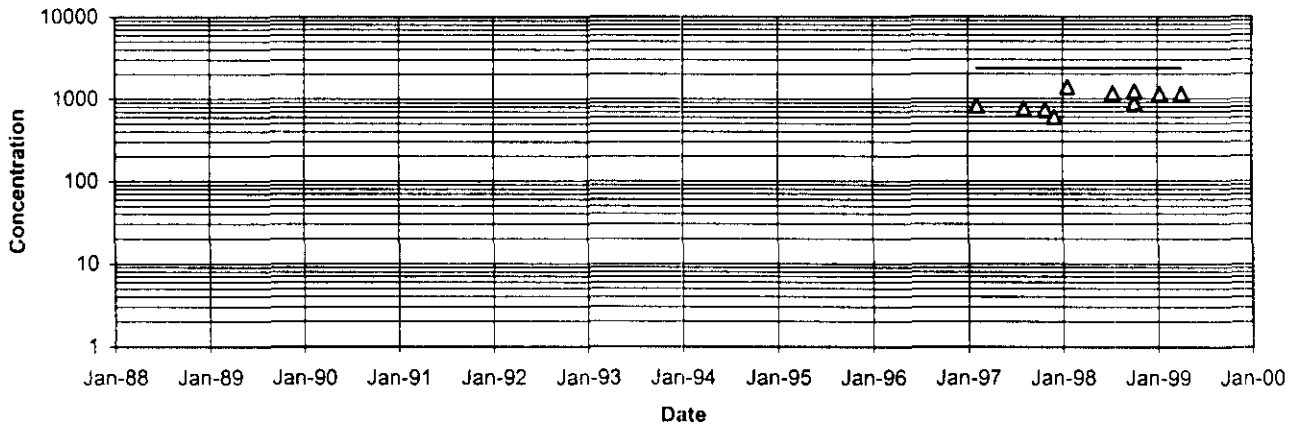
G33S



G34D



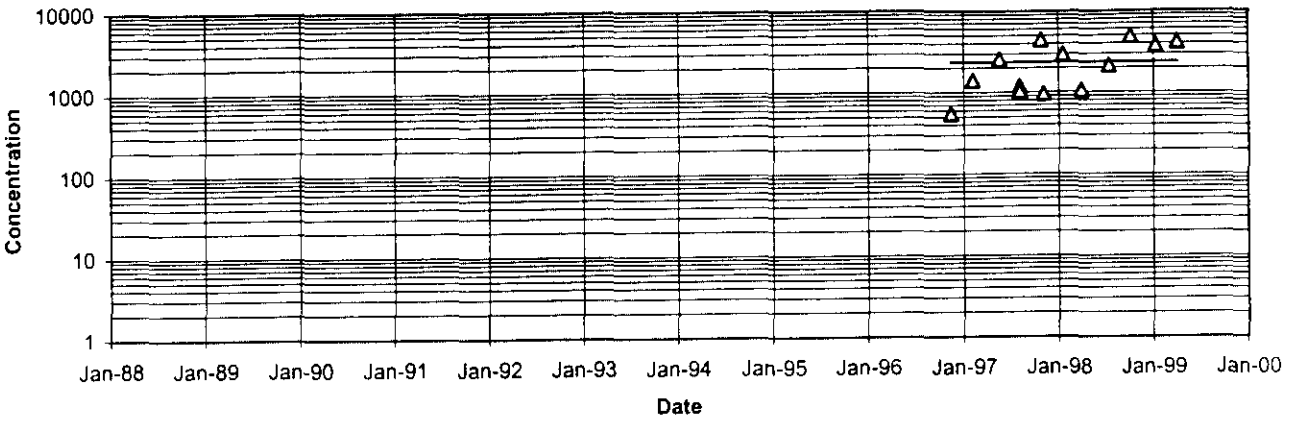
G34S



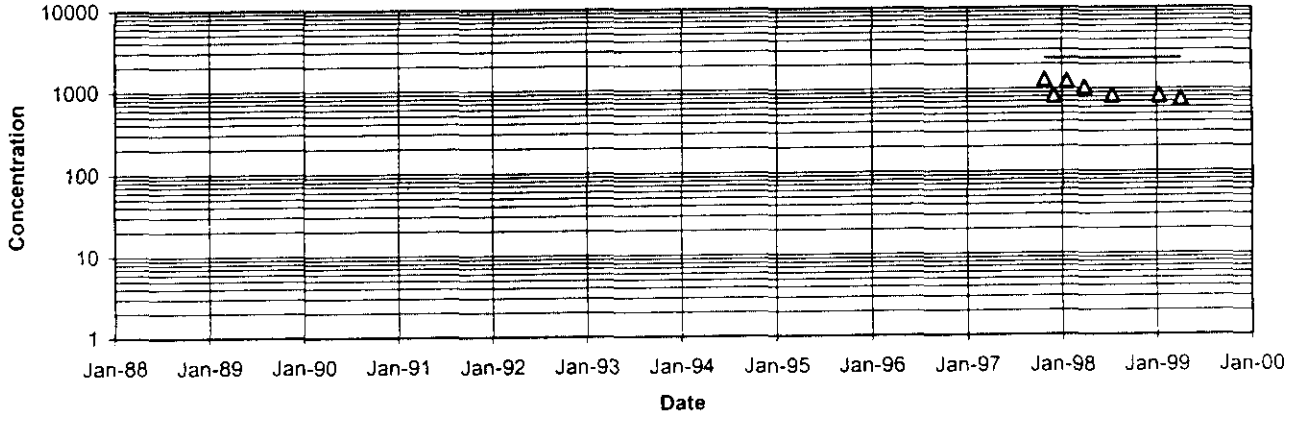
Specific Conductance (umhos)

AGQS Δ Concentration ○ NonDetect

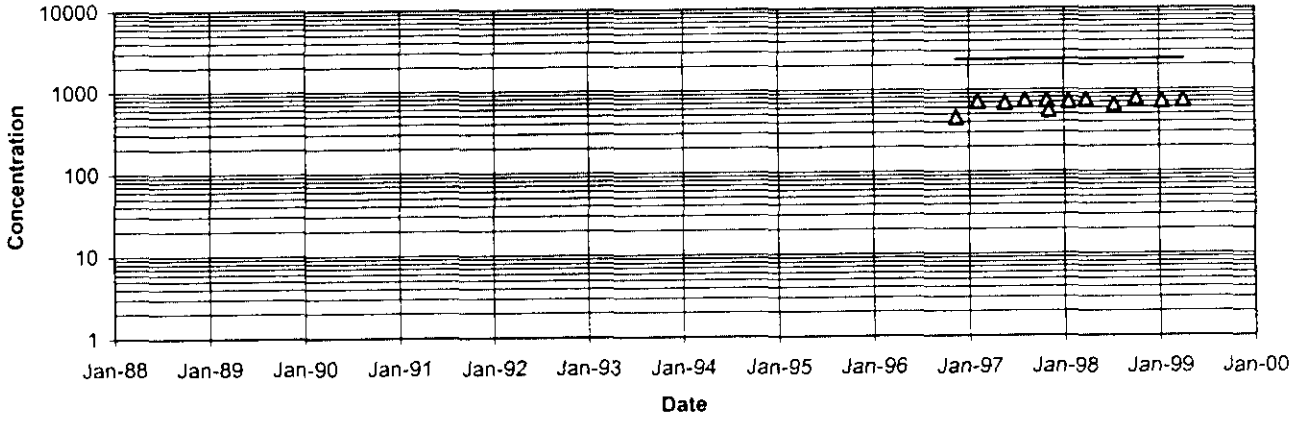
G35D



G35S



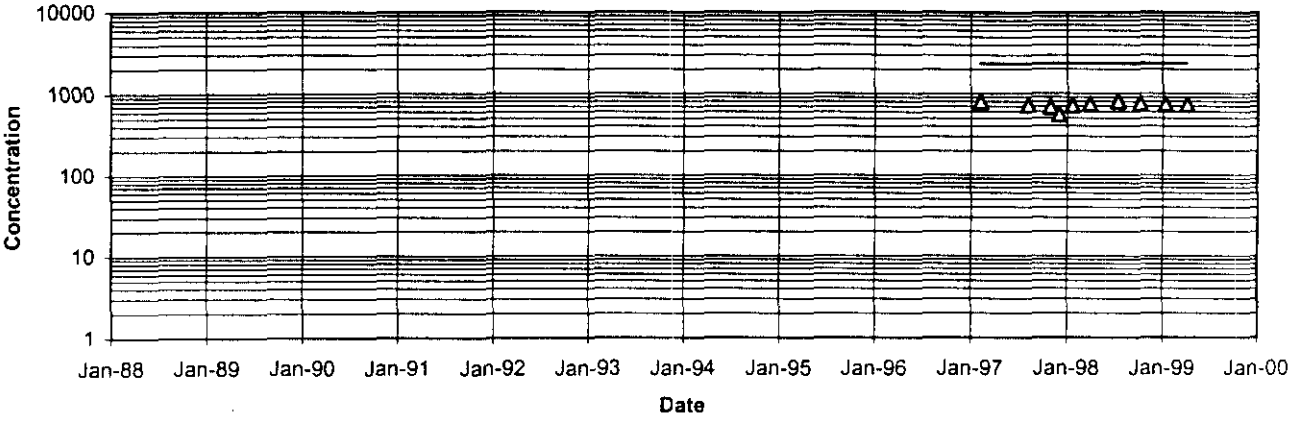
G36



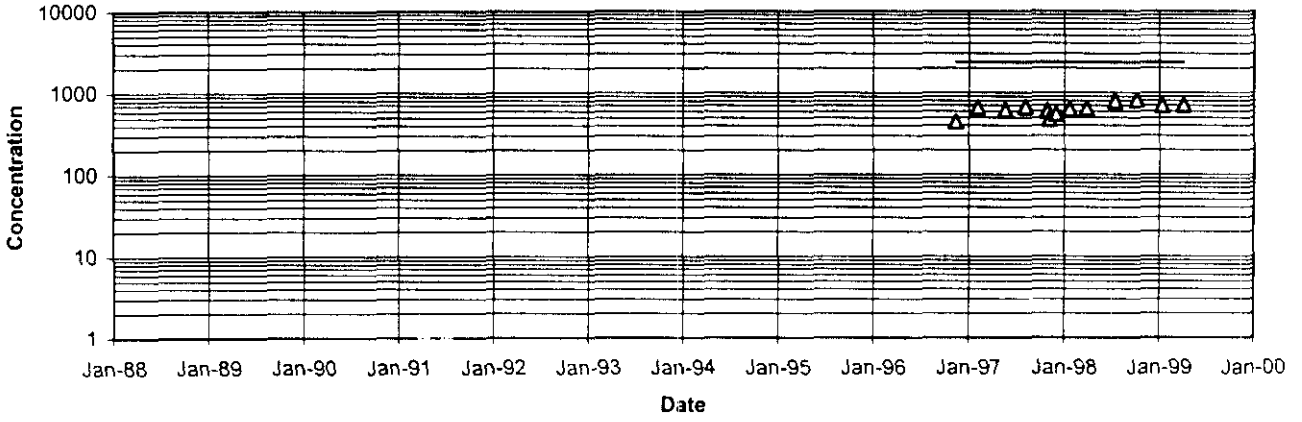
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

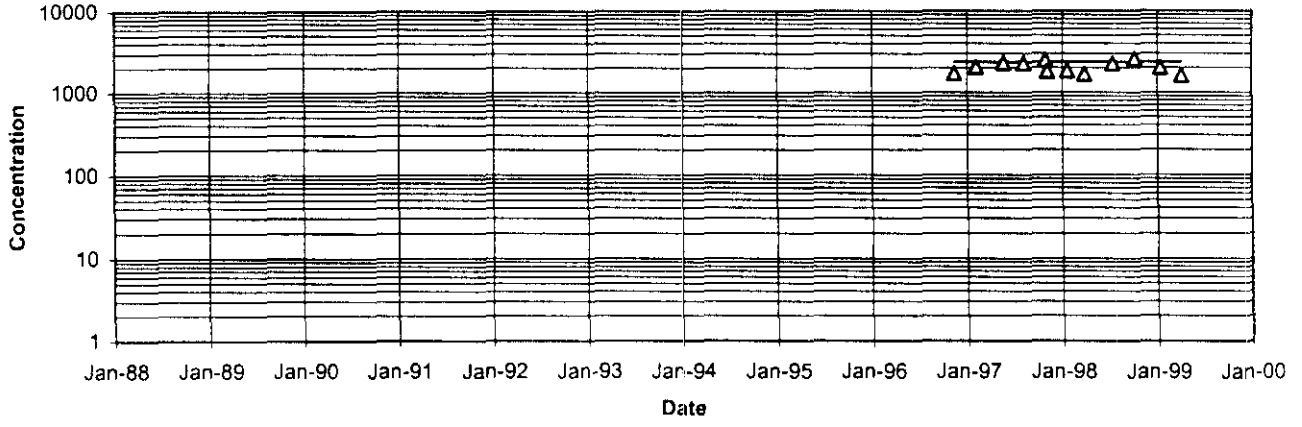
G37D



G37S



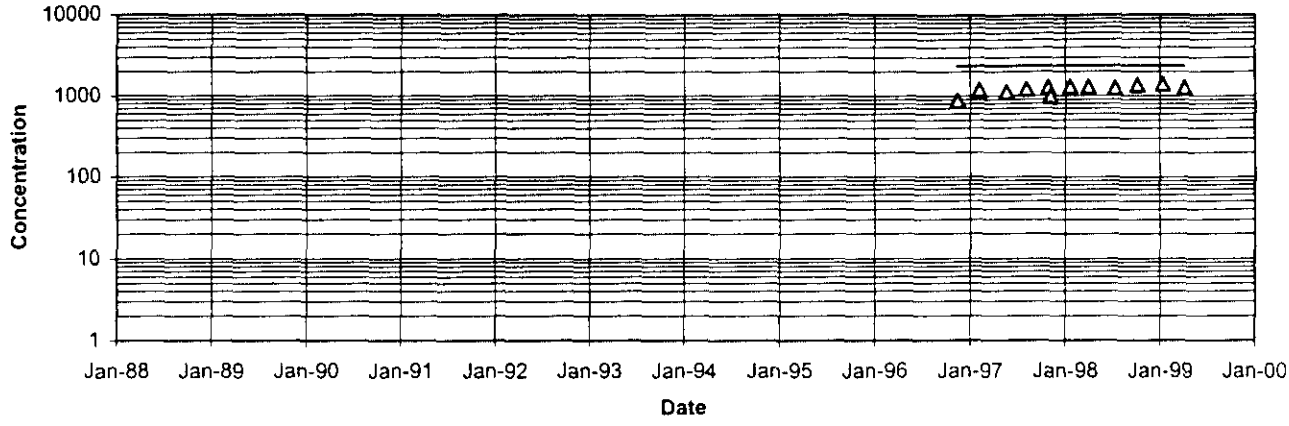
G38



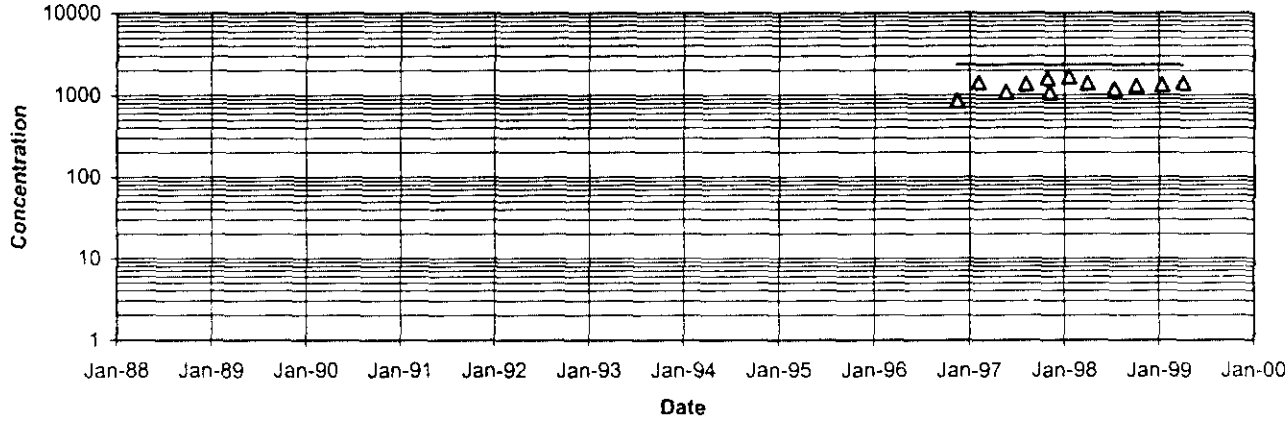
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

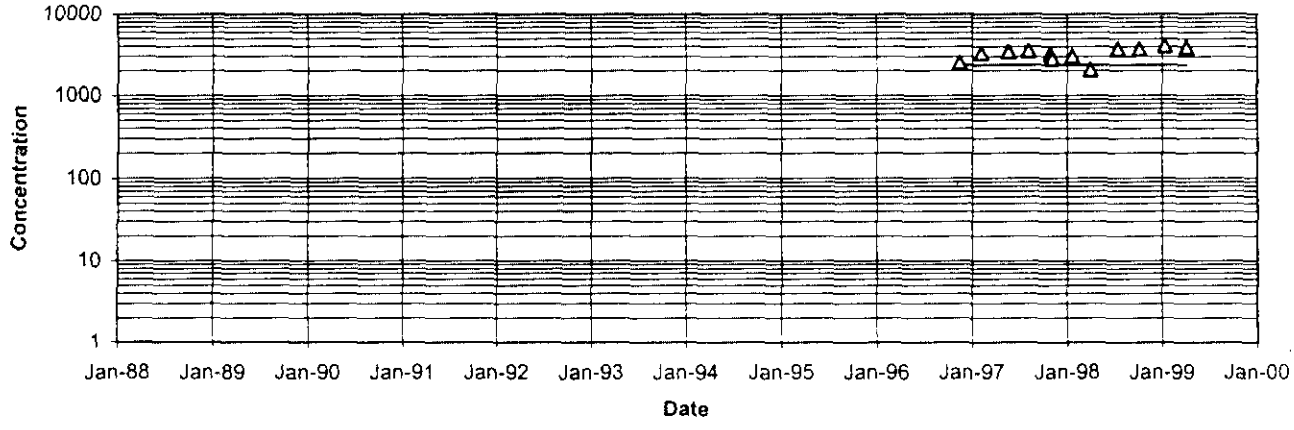
G39



G40



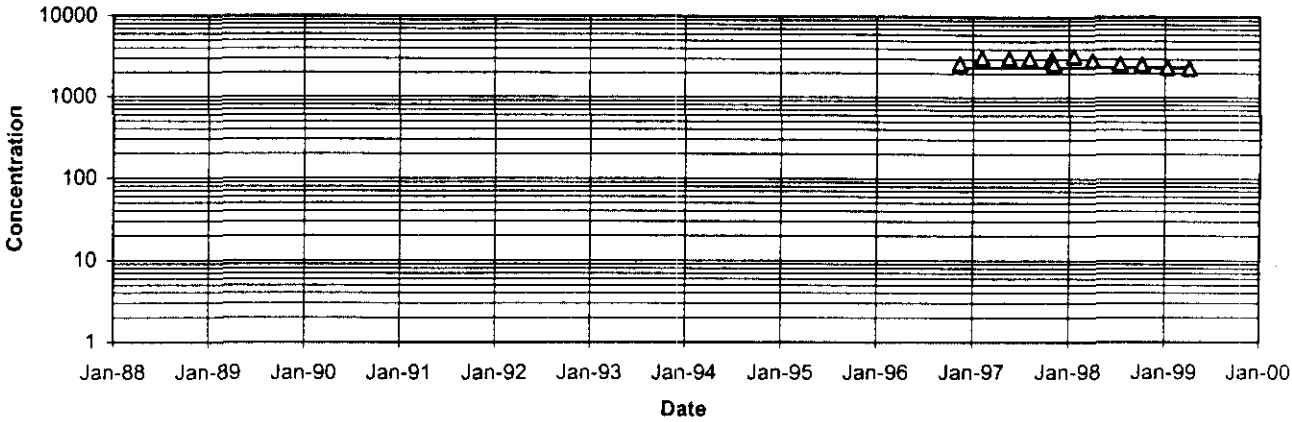
MW106



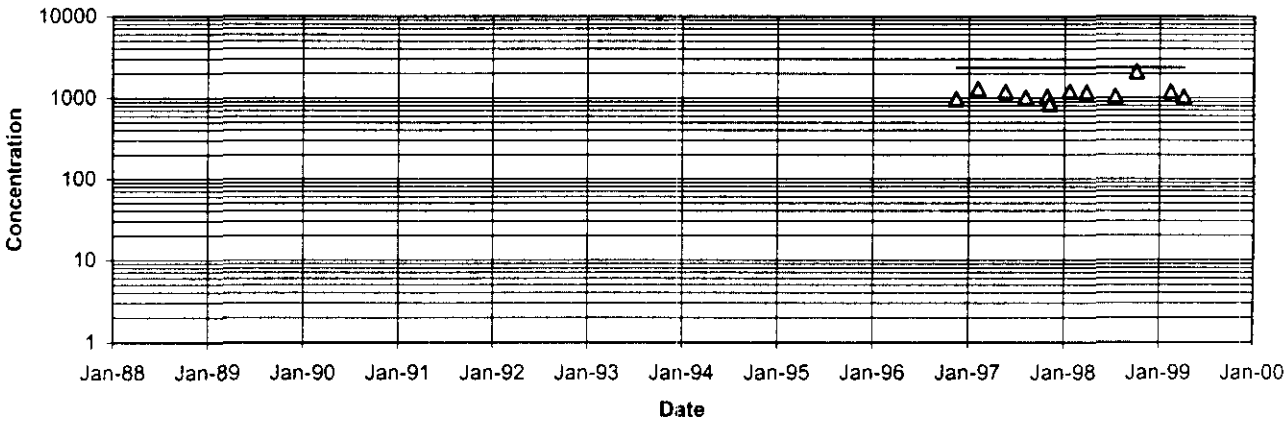
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

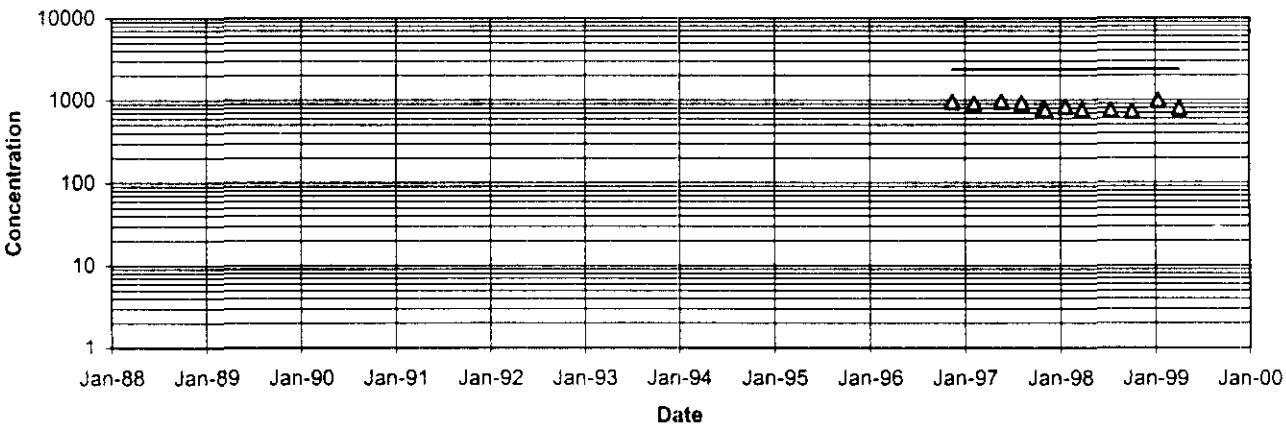
P1



P3R



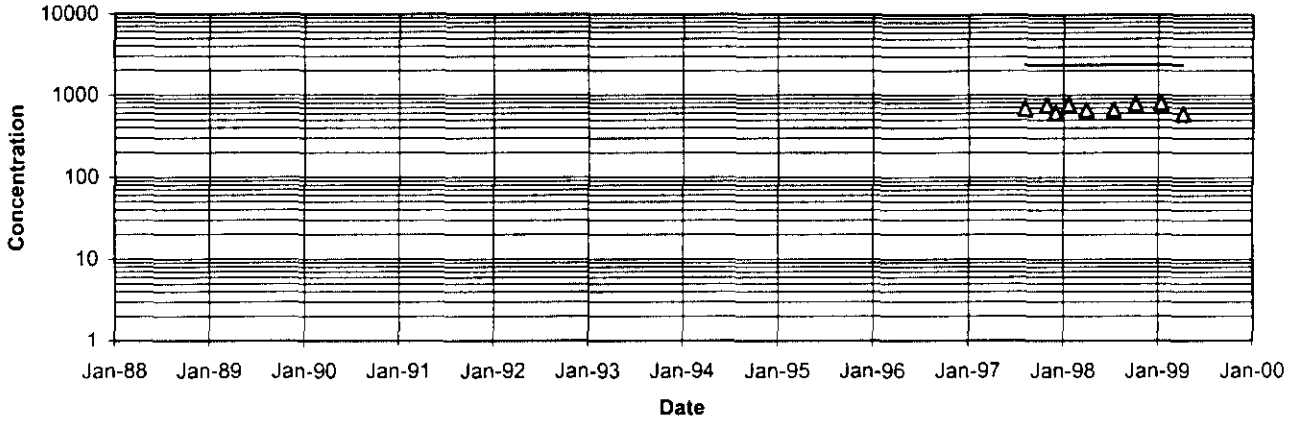
P4R



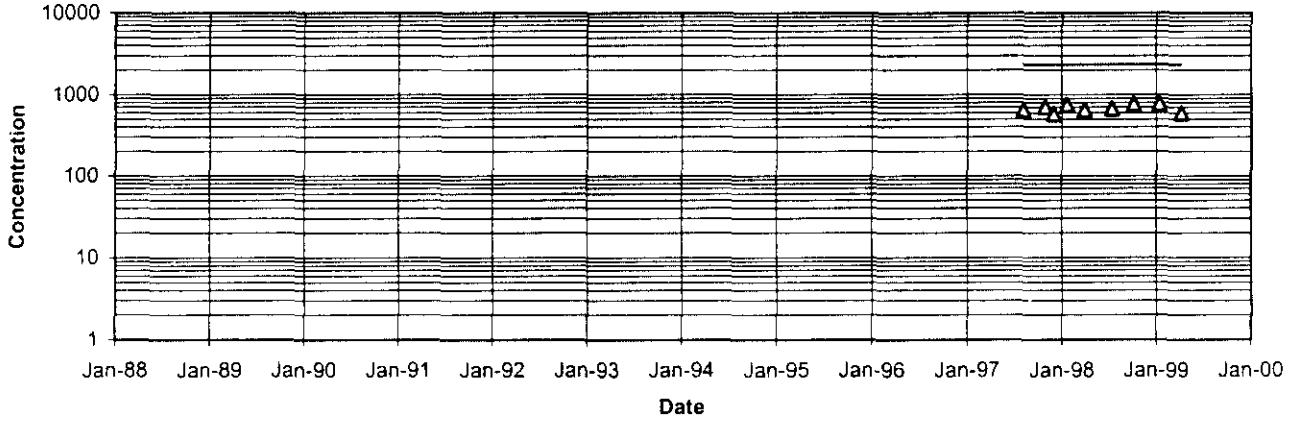
Specific Conductance (umhos)

AGQS Δ Concentration O NonDetect

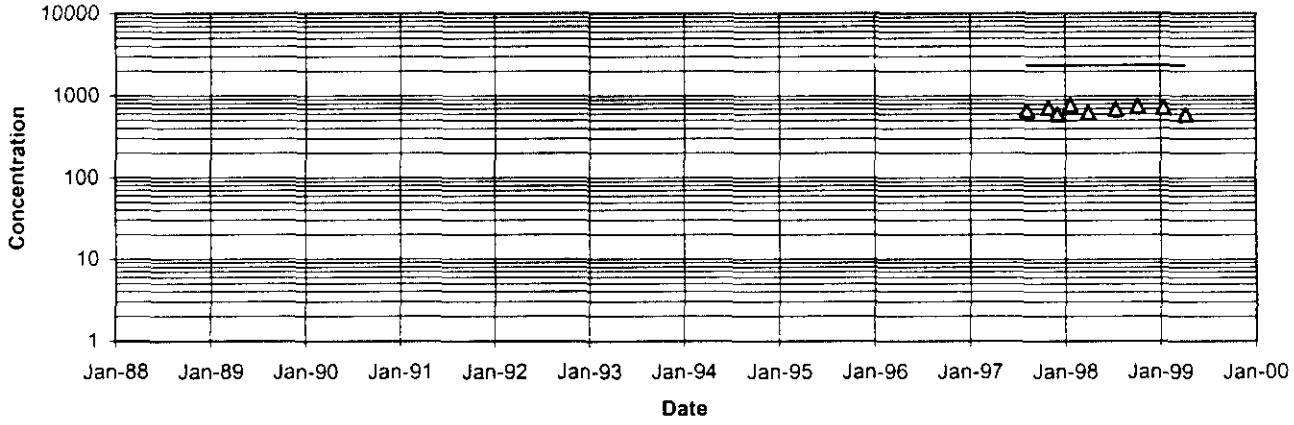
SG1



SG3



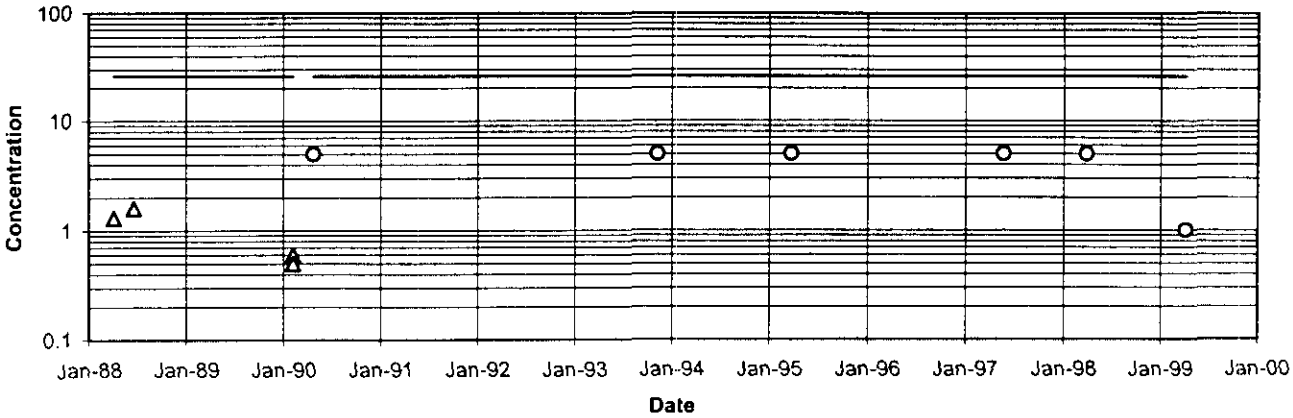
SG4



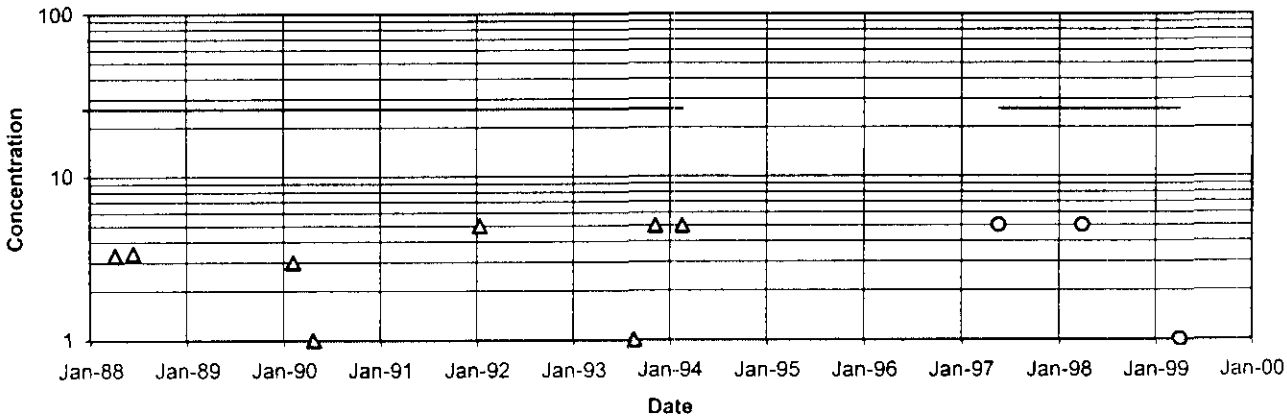
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

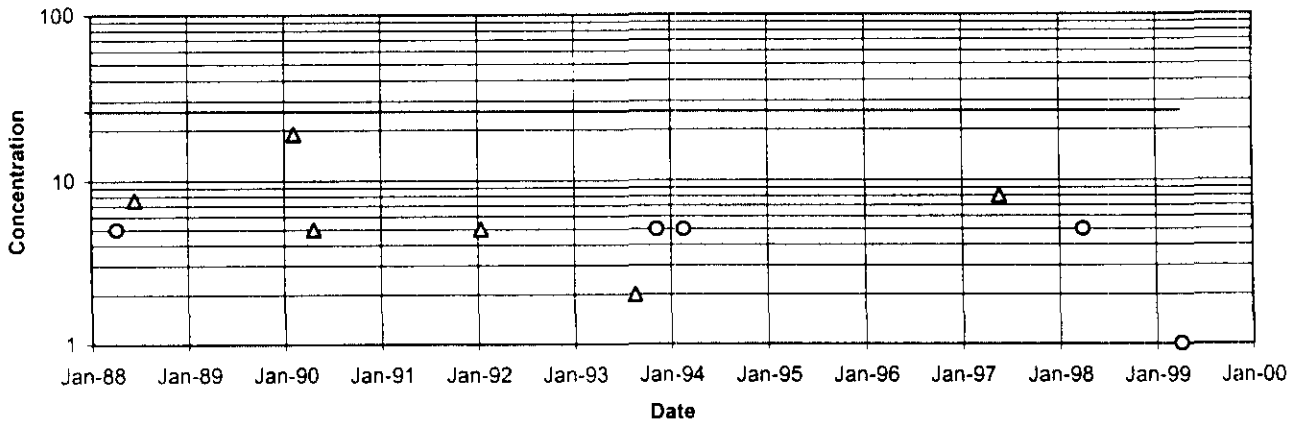
B15R



G109



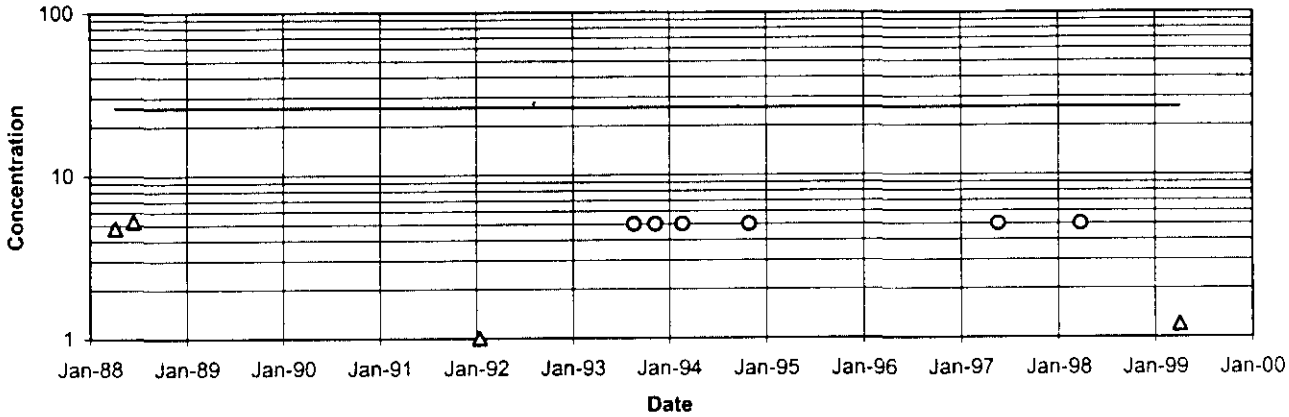
G109A



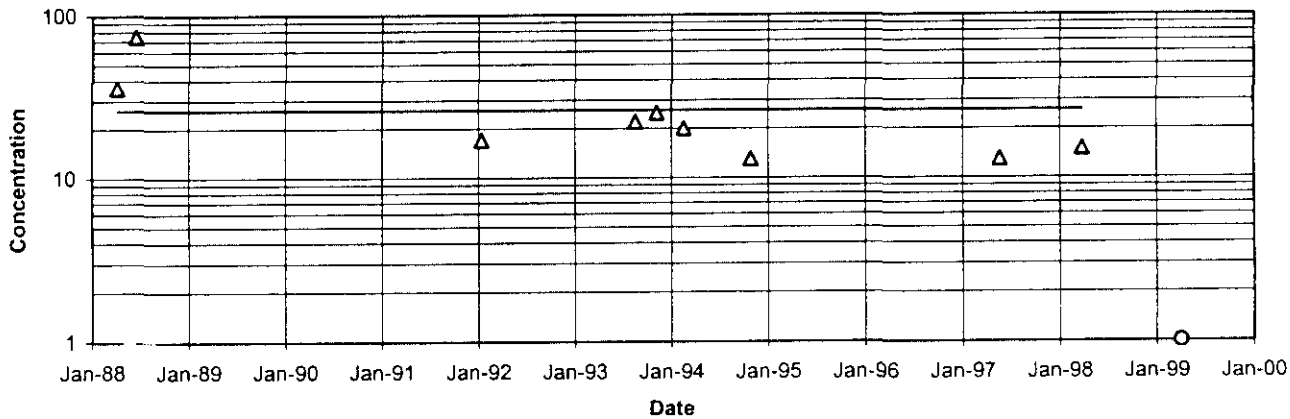
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

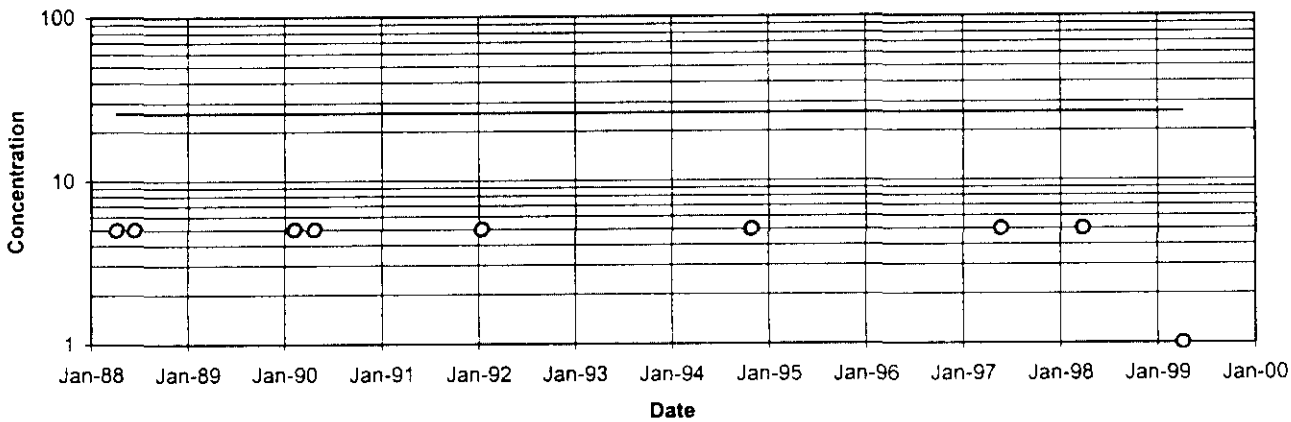
G113



G113A



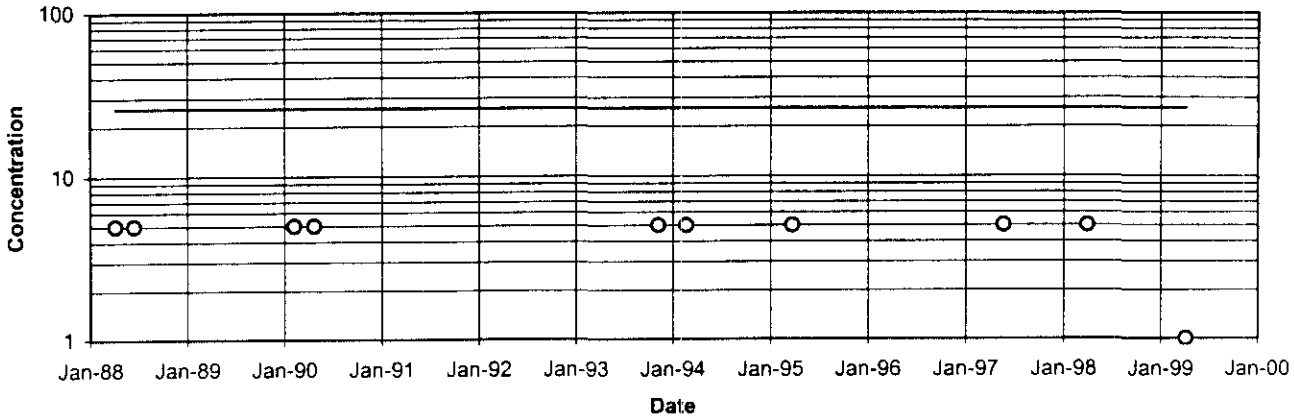
G114



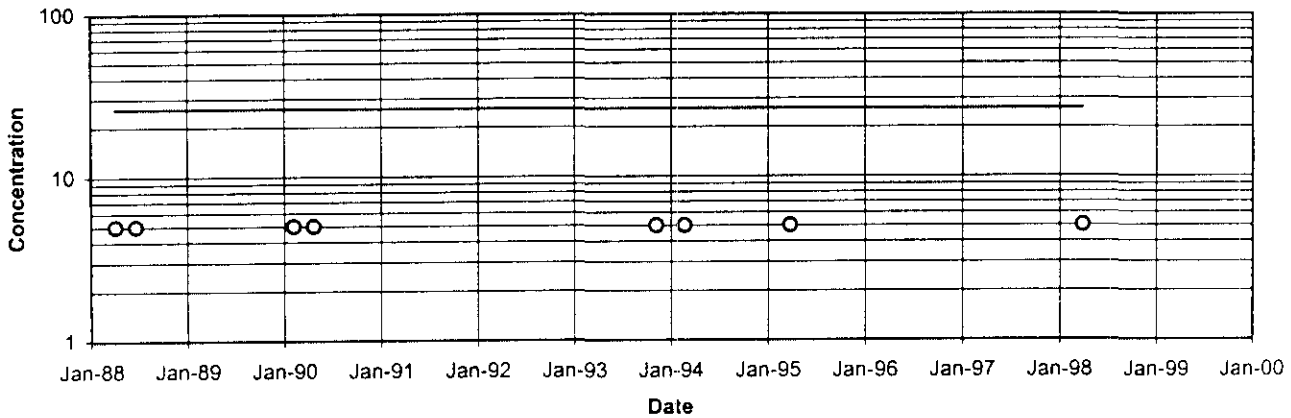
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

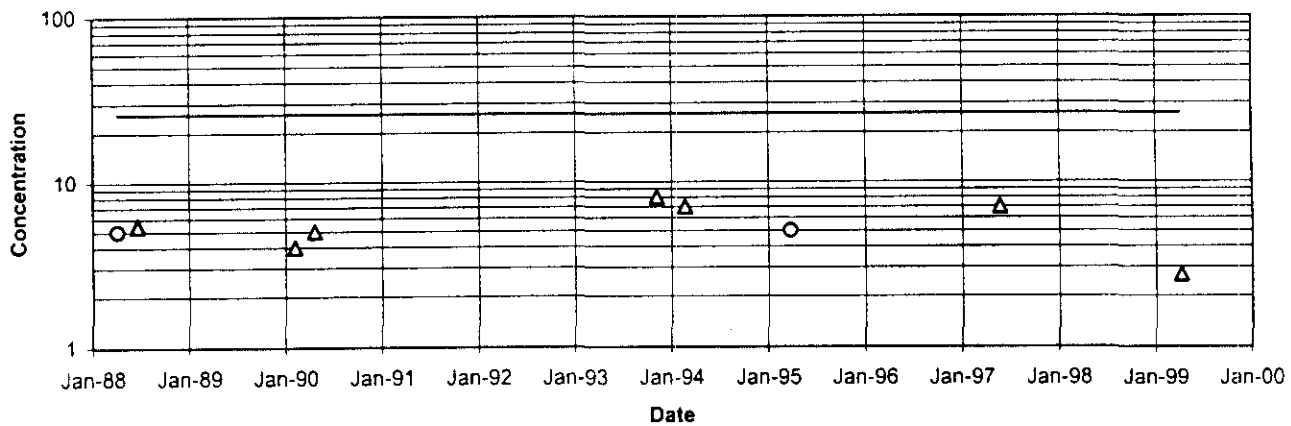
G115



G116



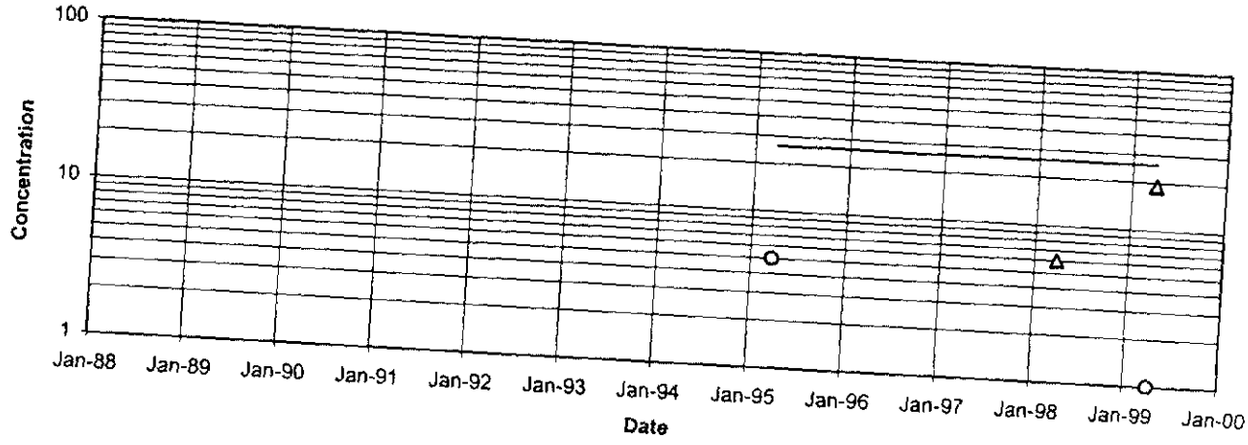
G116A



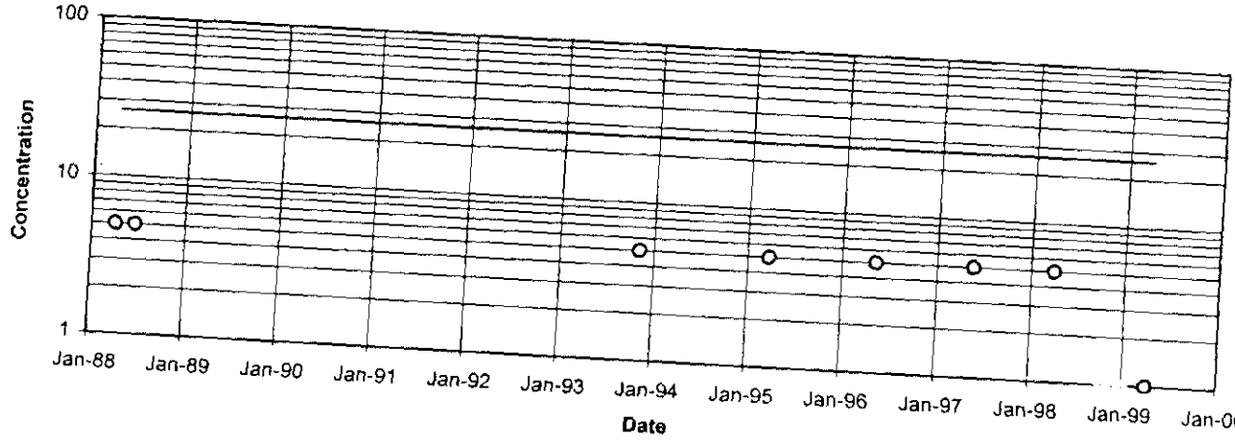
Tetrachloroethene (ug/L)

AGQS Δ Concentration ○ NonDetect

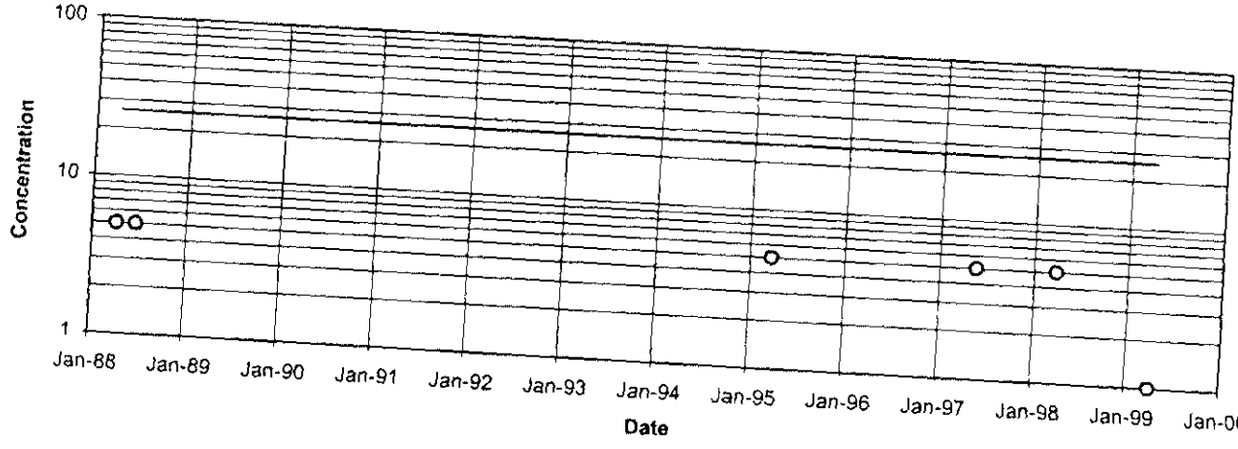
G116D



G117



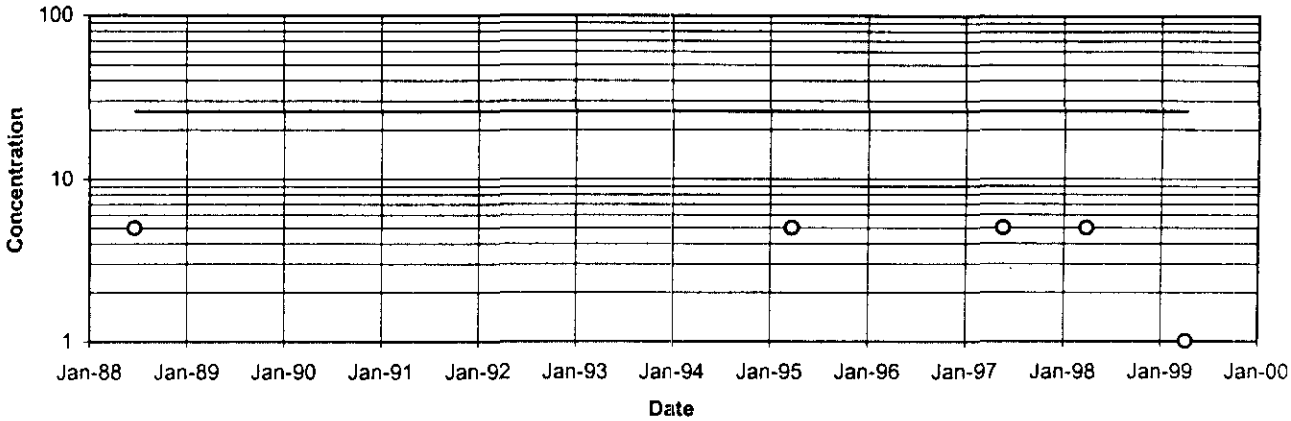
G118A



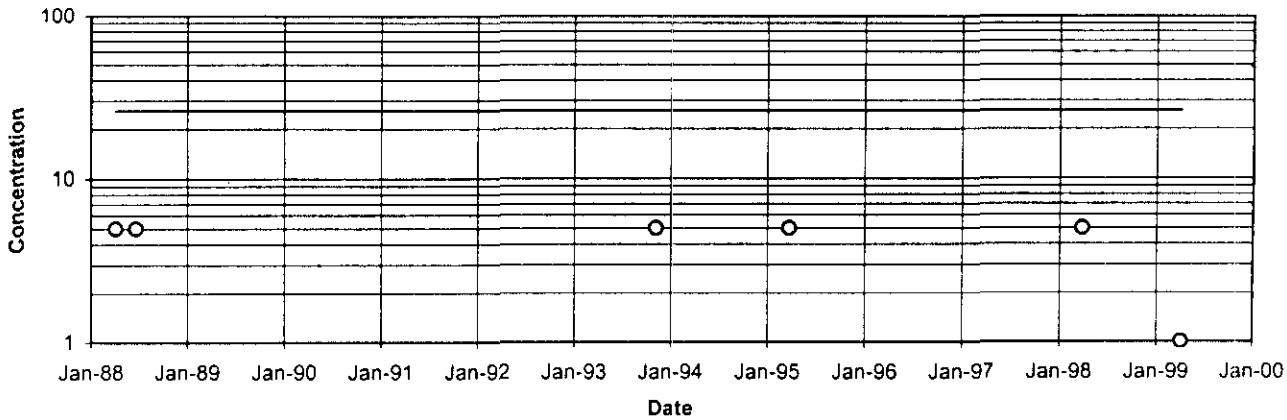
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

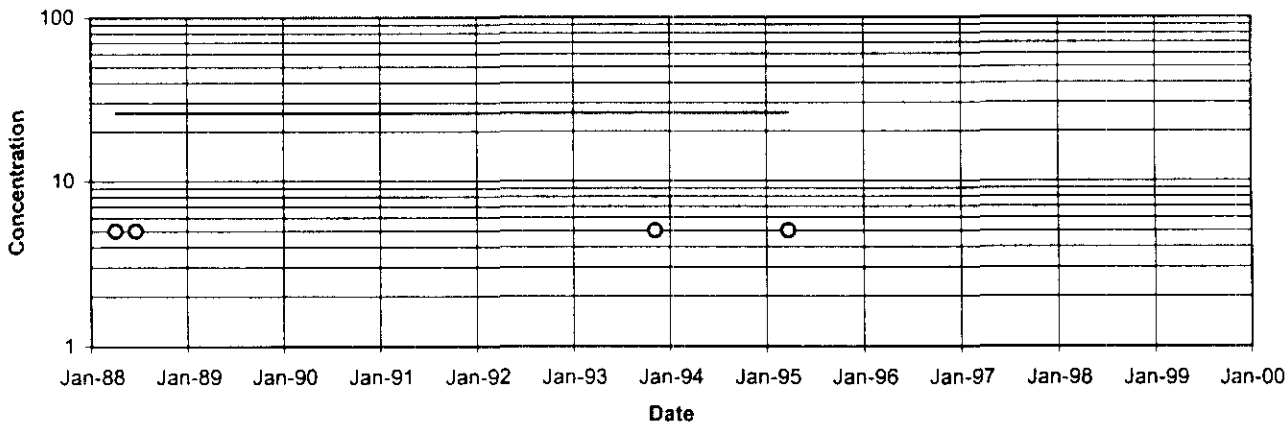
G118R



G119



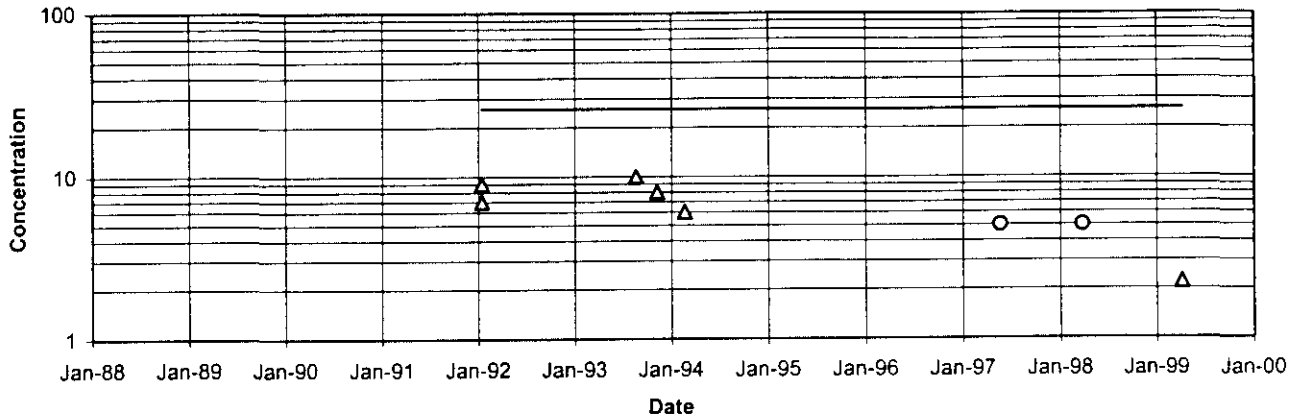
G119A



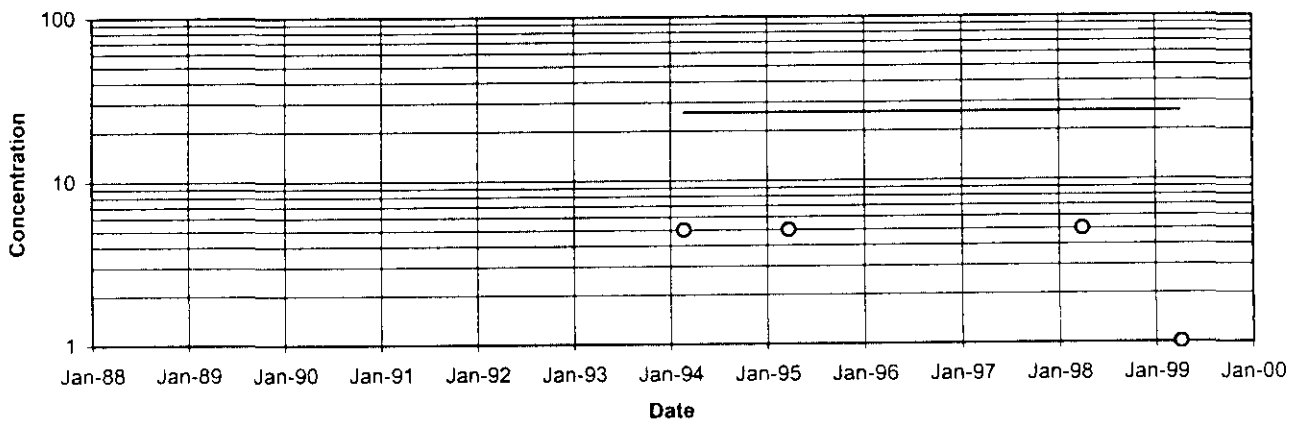
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

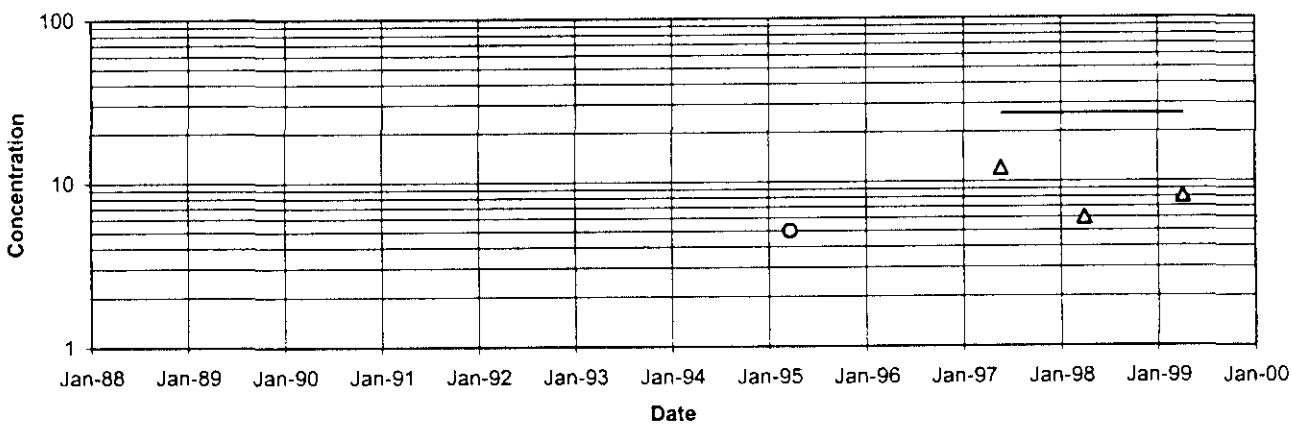
G120B



G130



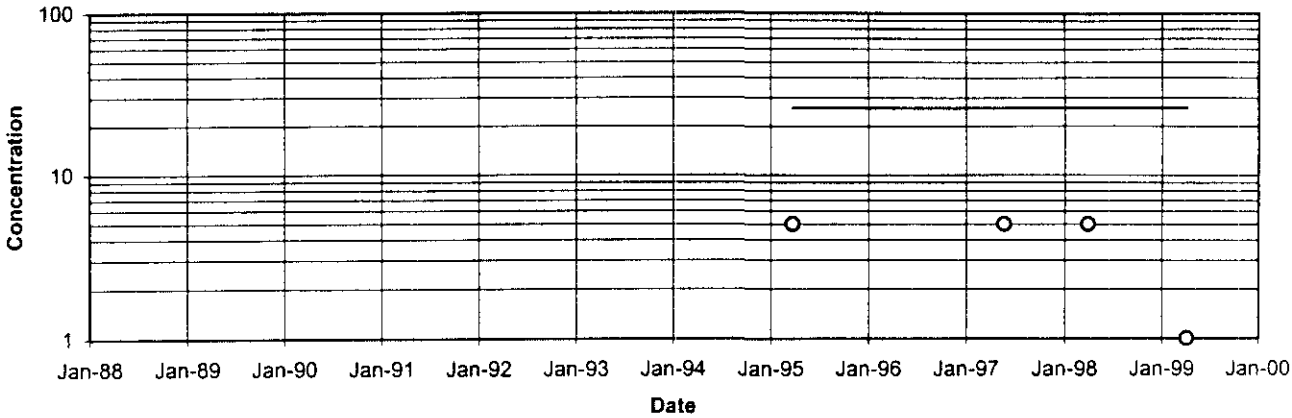
G132



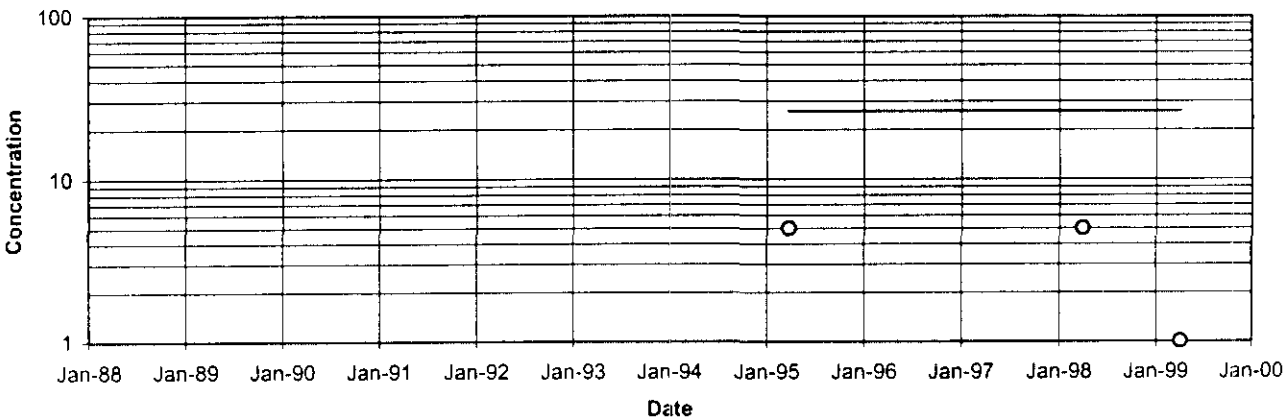
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

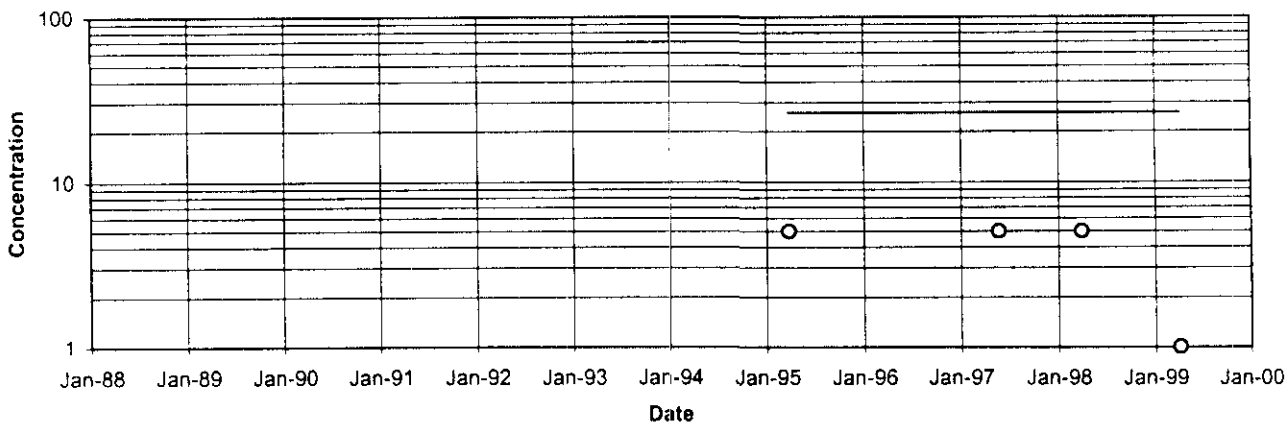
G33D



G33S



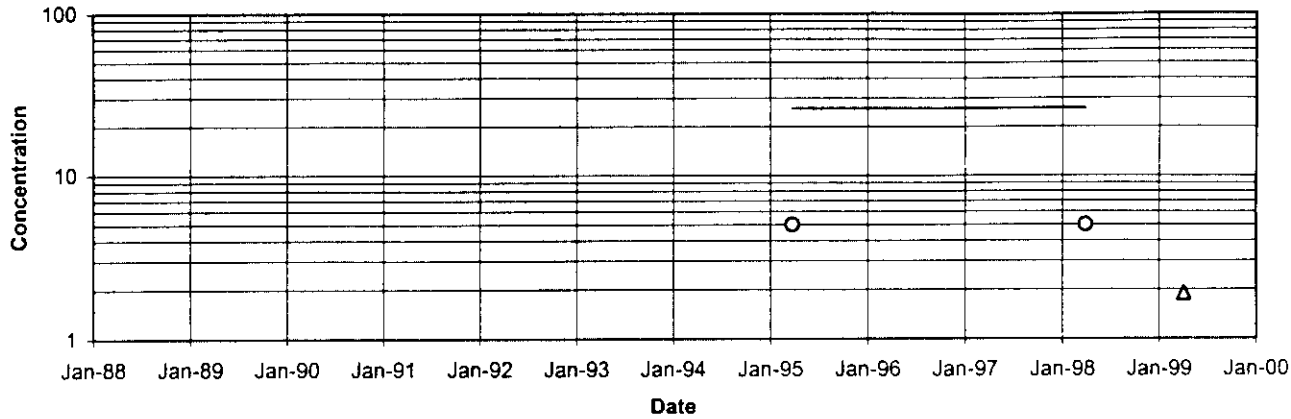
G34D



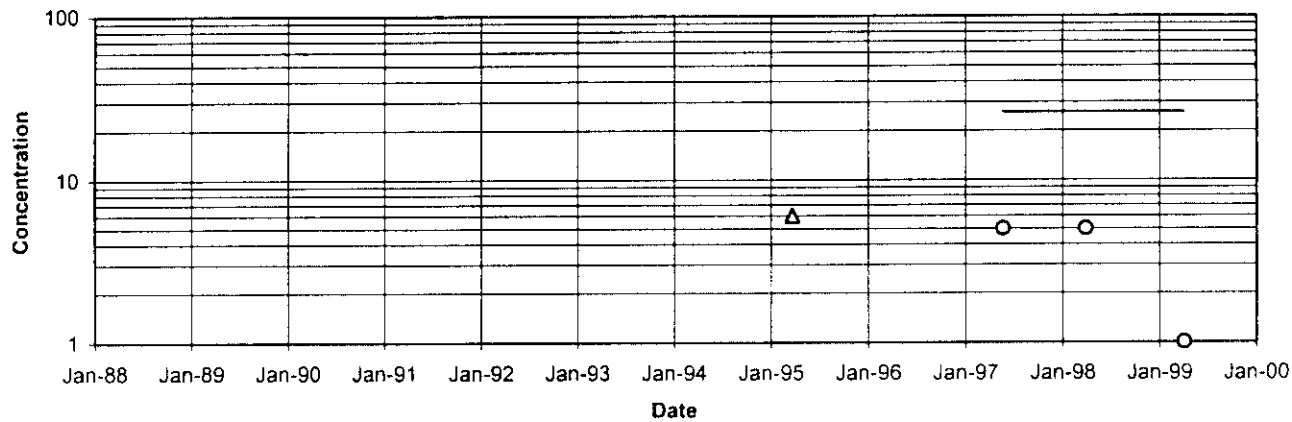
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

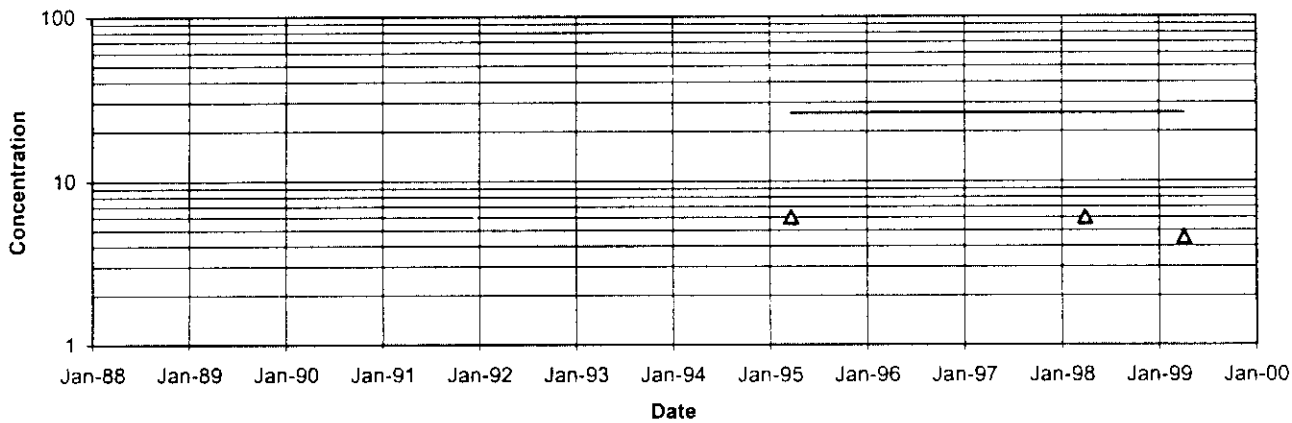
G34S



G35D



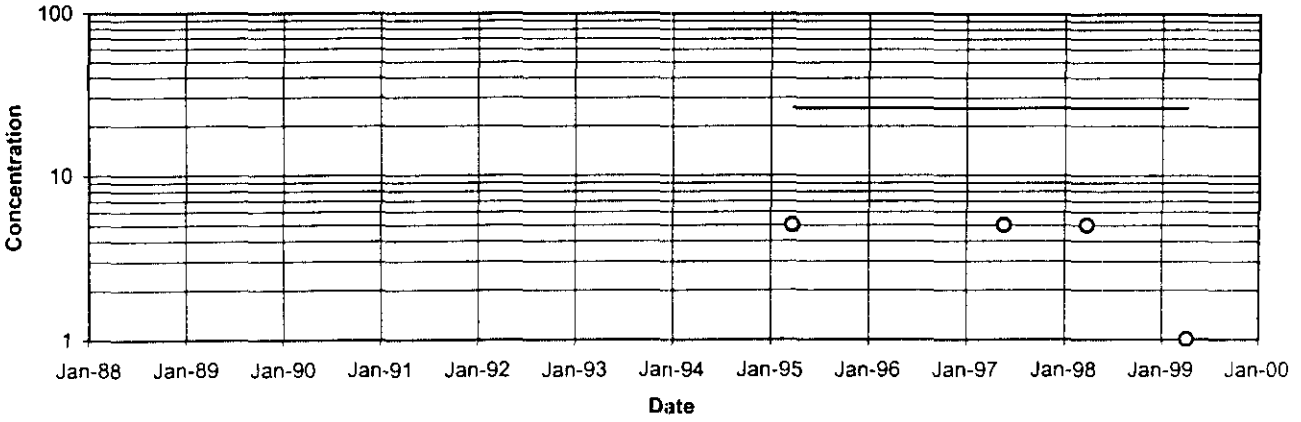
G35S



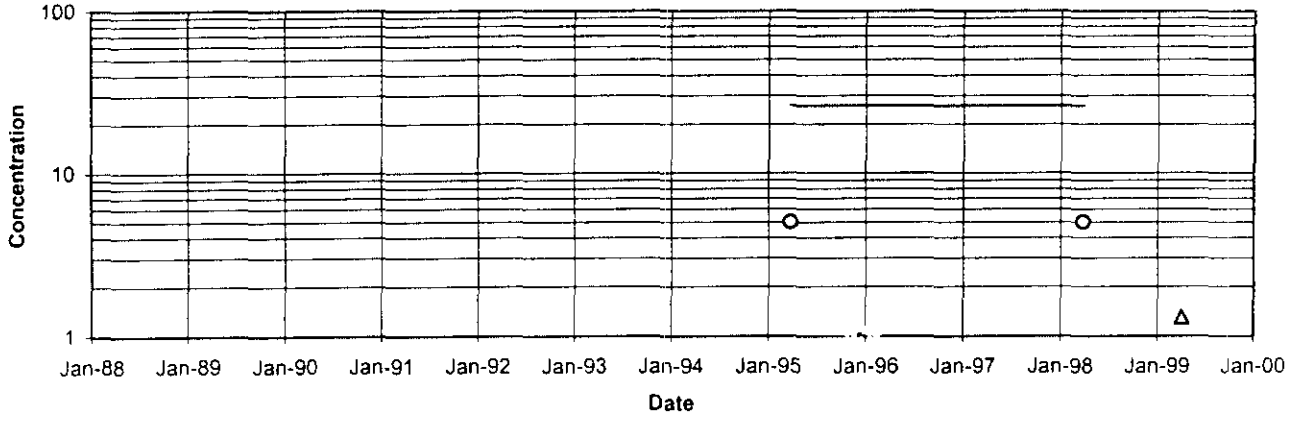
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

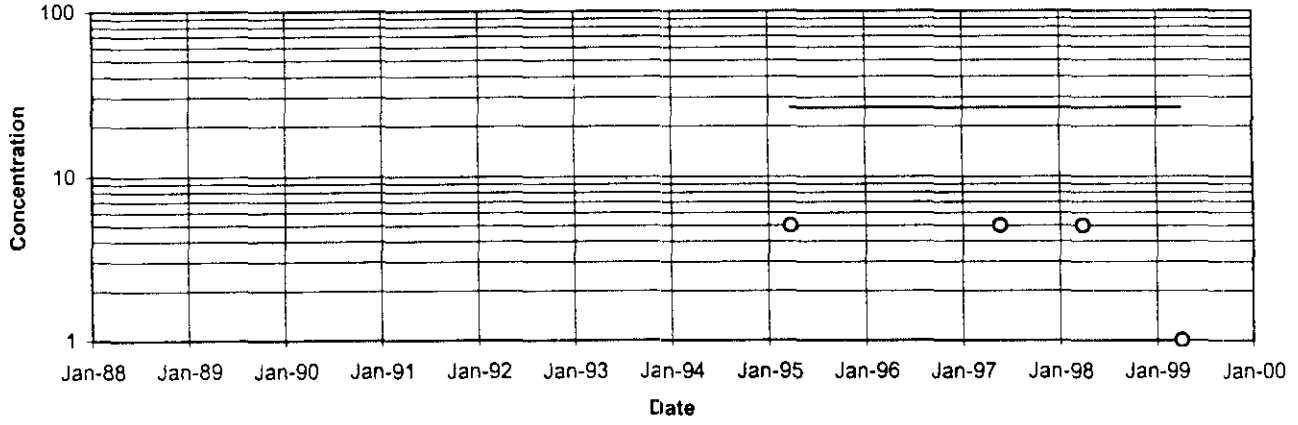
G36



G37D



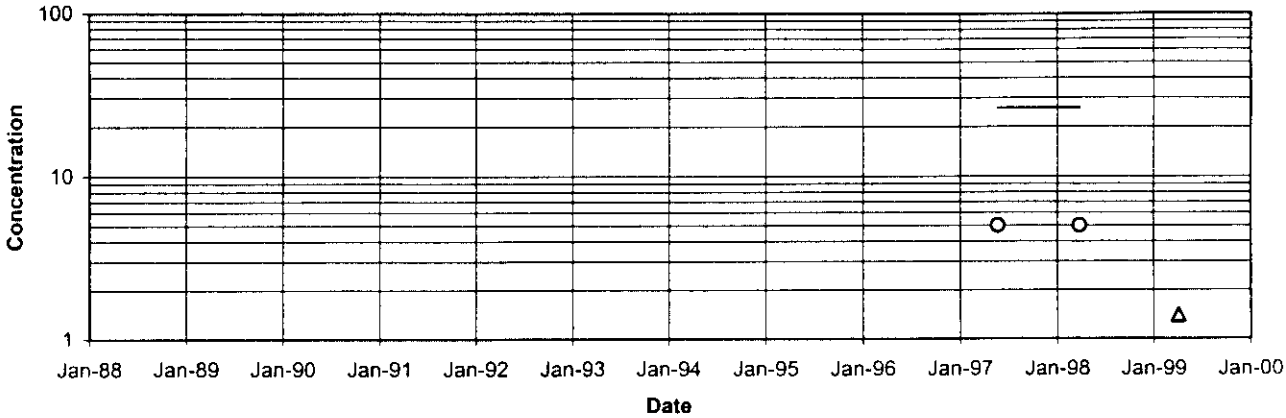
G37S



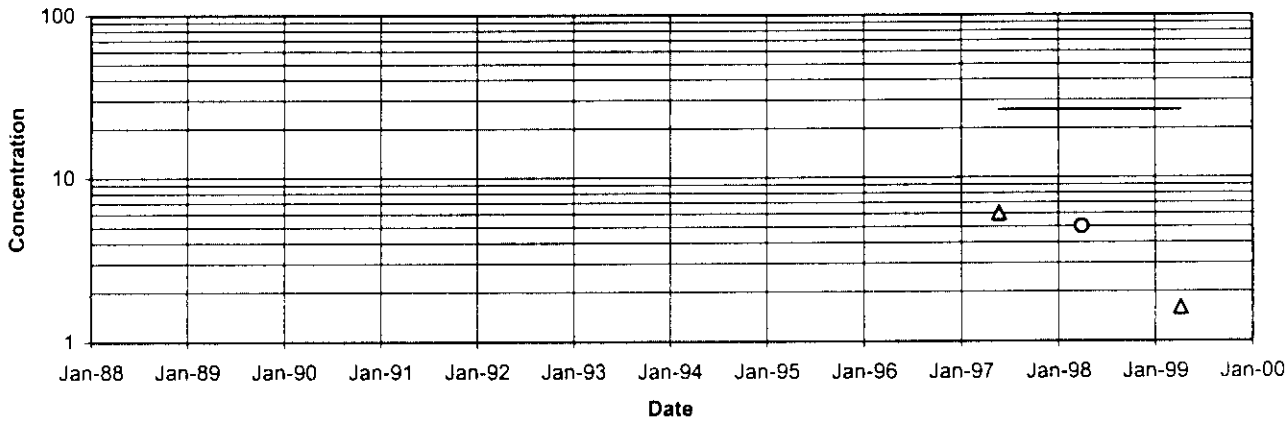
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

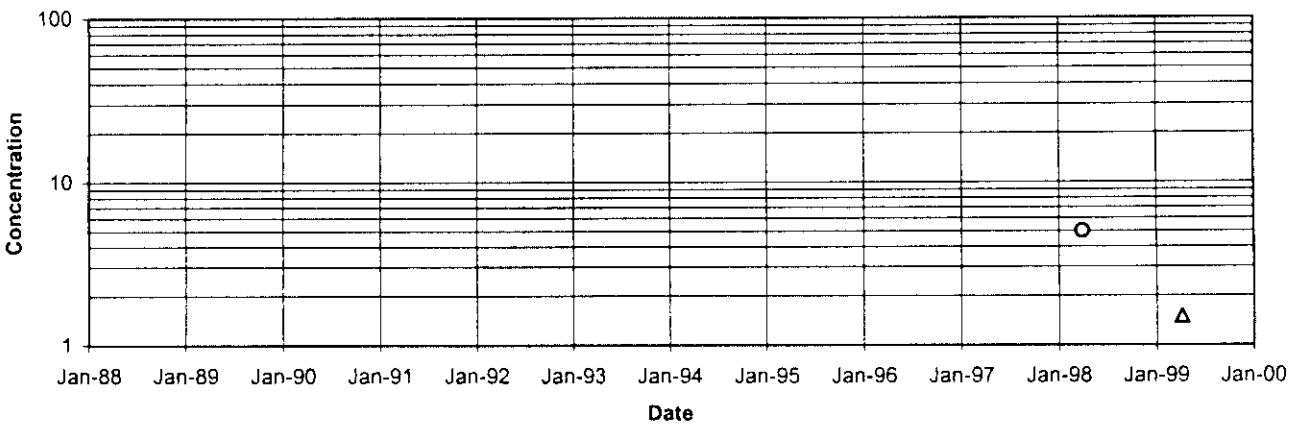
G38



G39



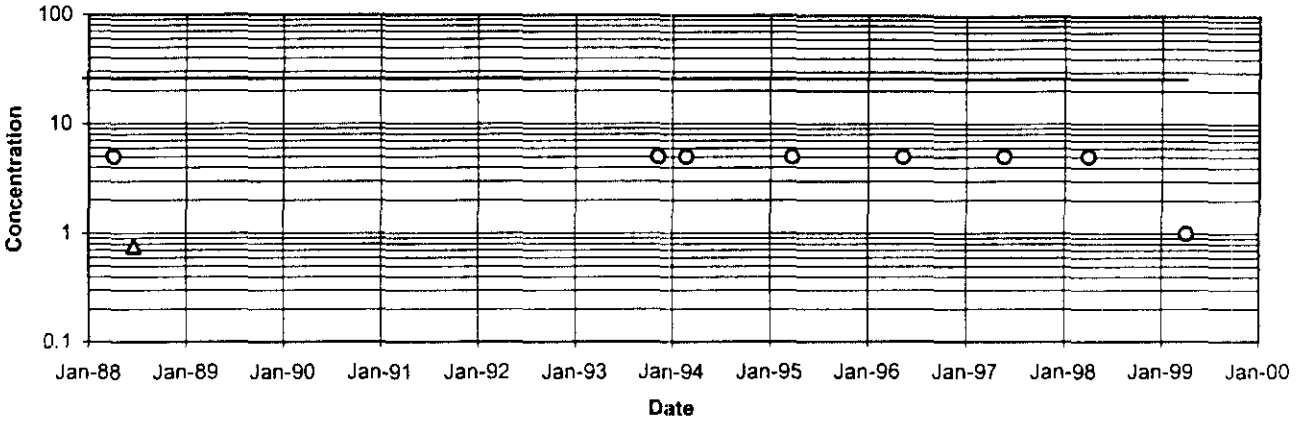
G40



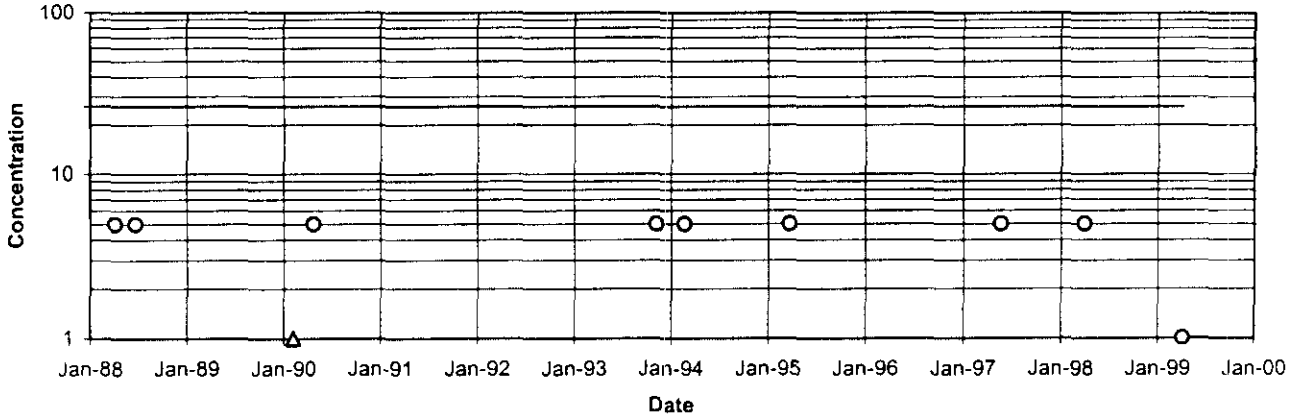
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

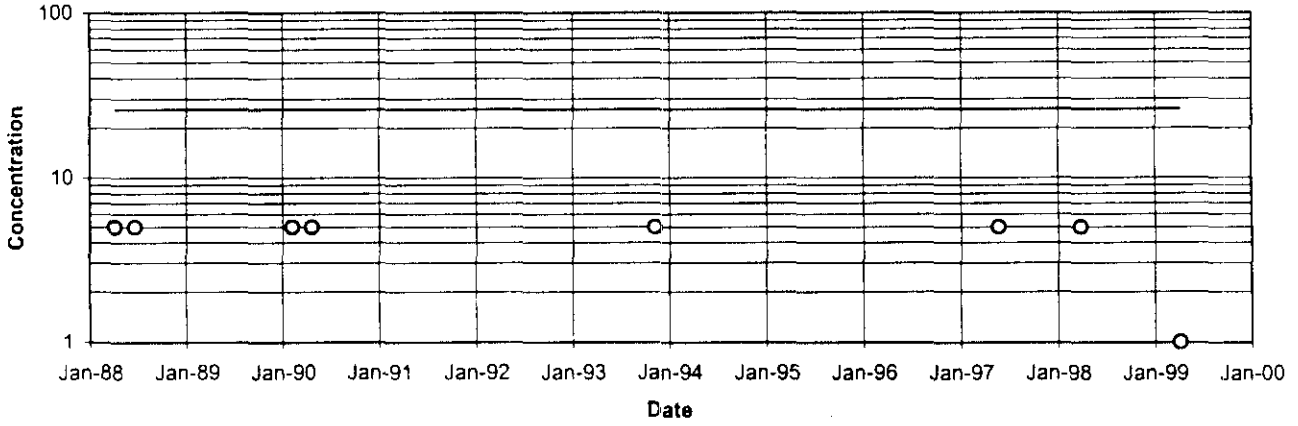
MW106



P1



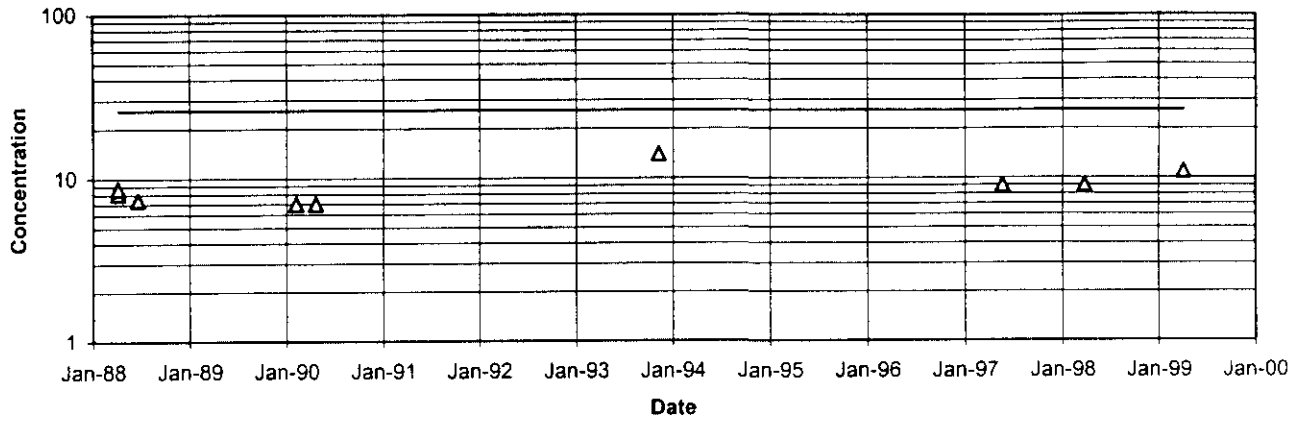
P3R



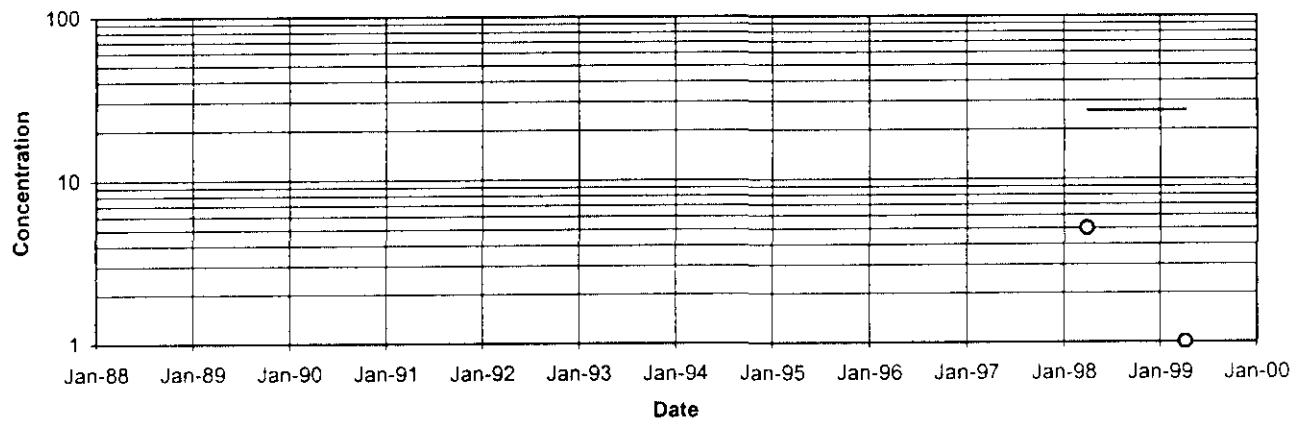
Tetrachloroethene (ug/L)

AGQS Δ Concentration O NonDetect

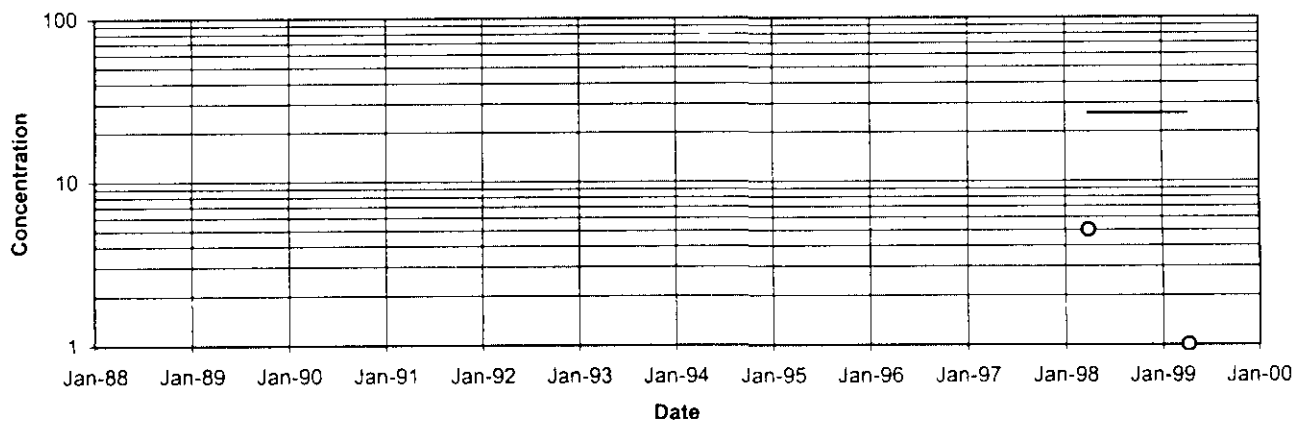
P4R



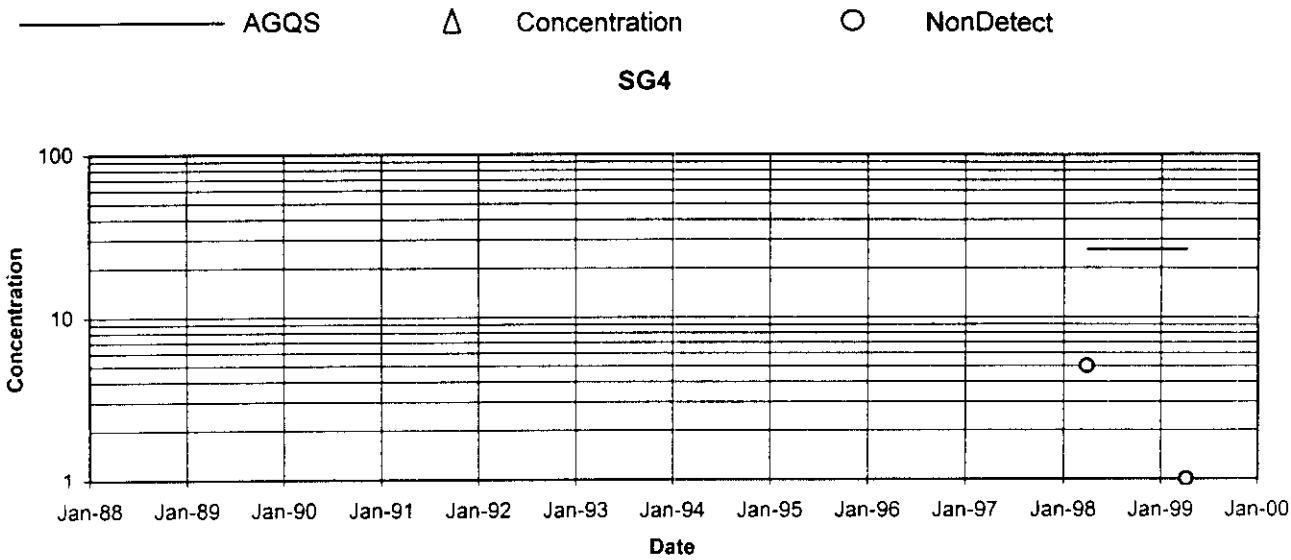
SG1



SG3



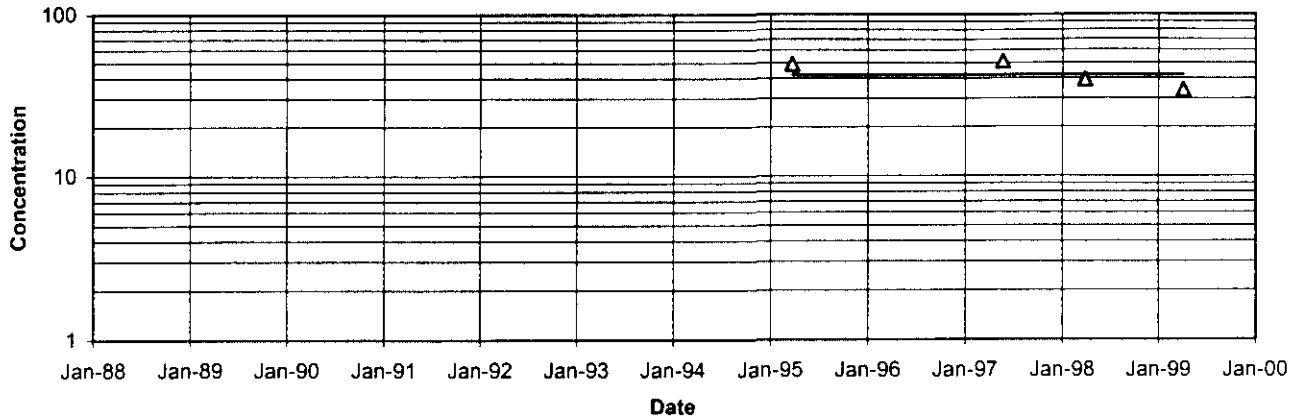
Tetrachloroethene (ug/L)



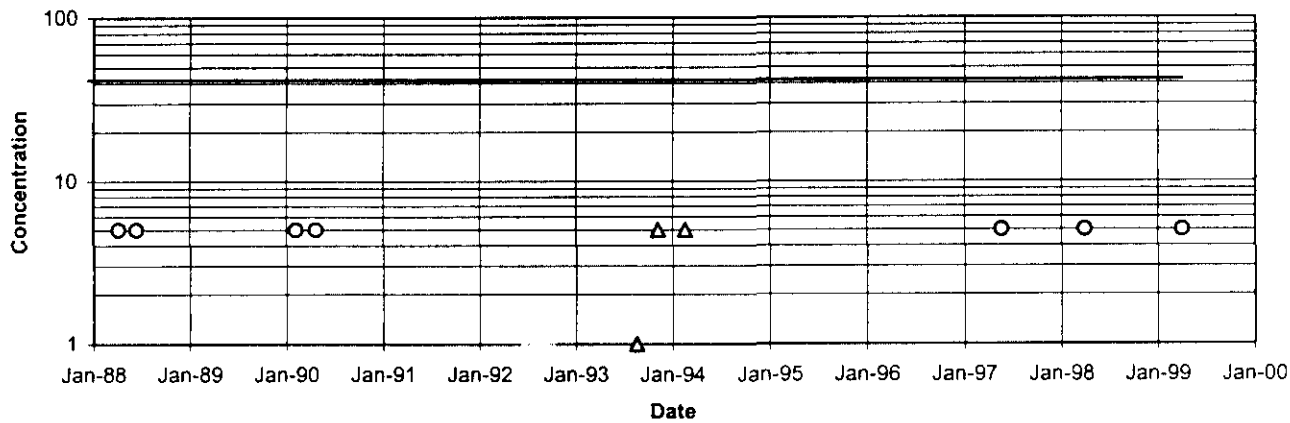
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

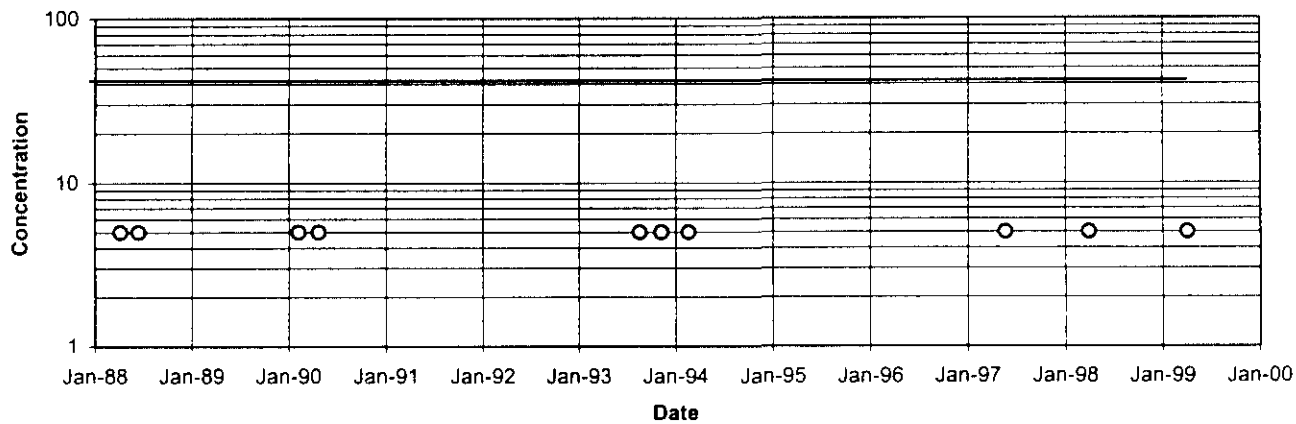
B15R



G109



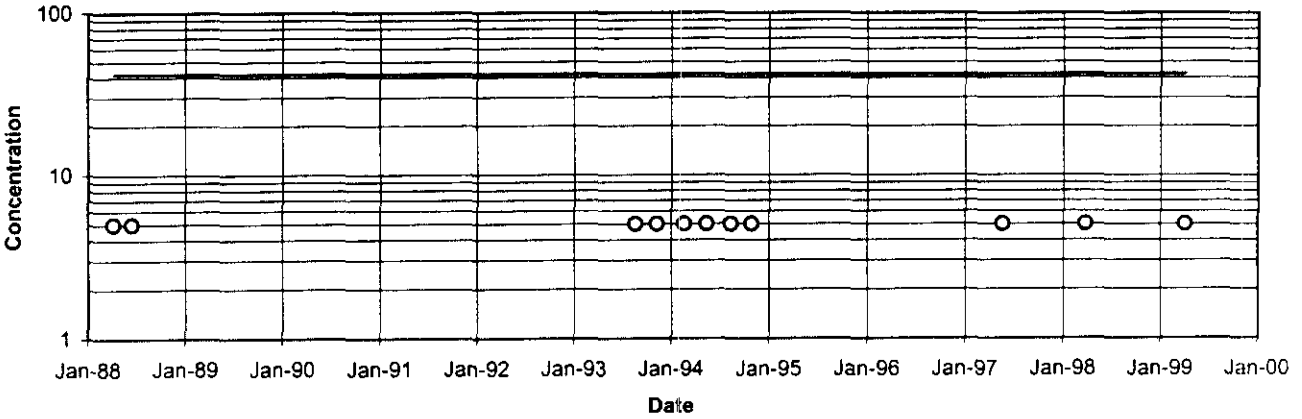
G109A



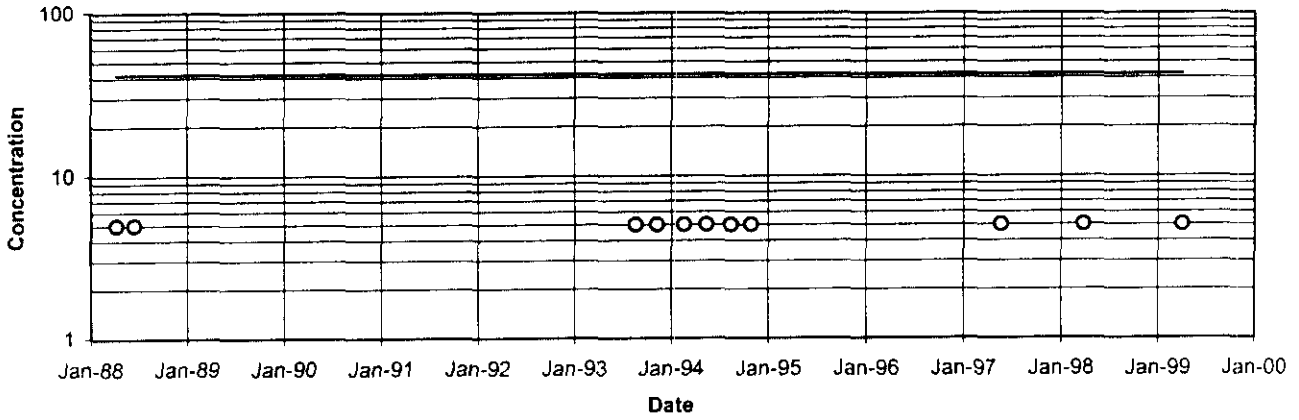
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

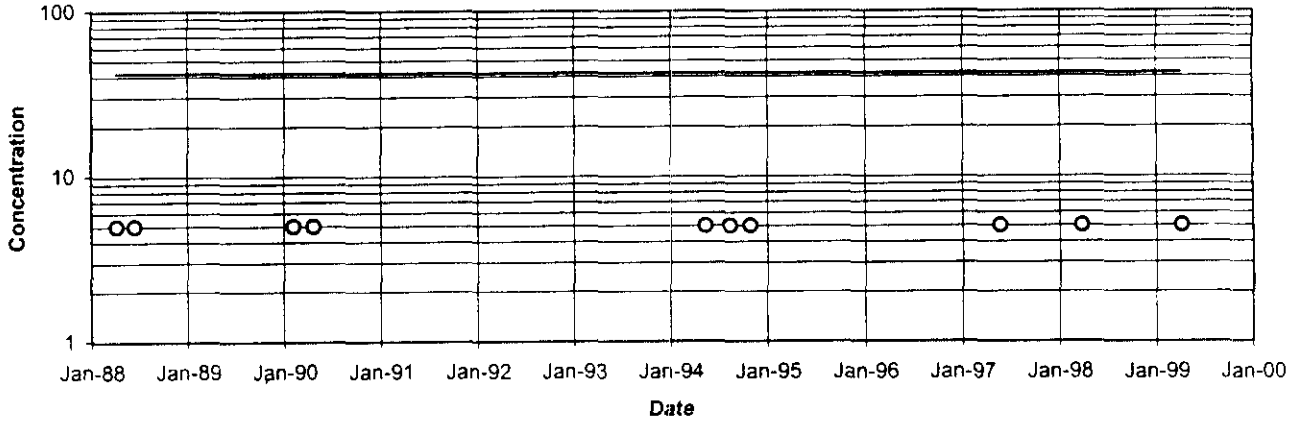
G113



G113A



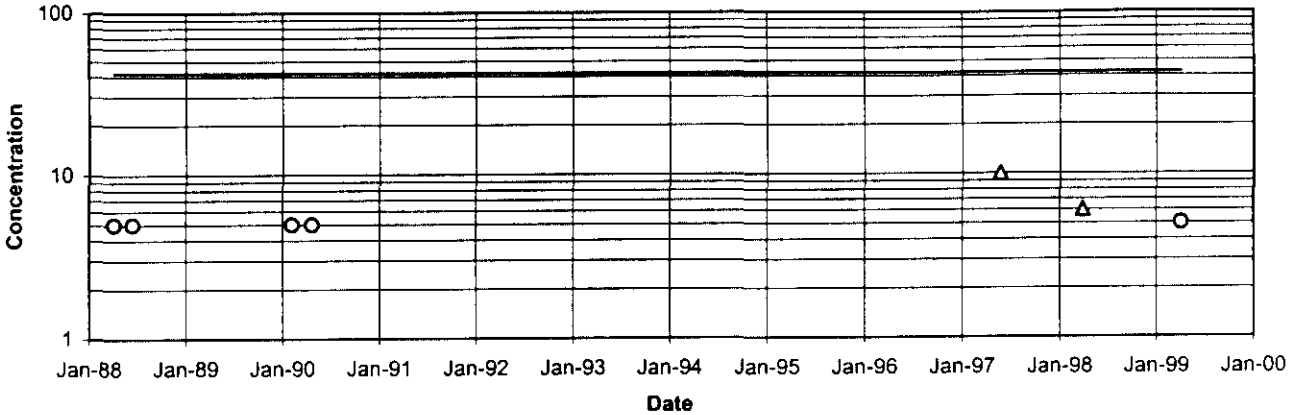
G114



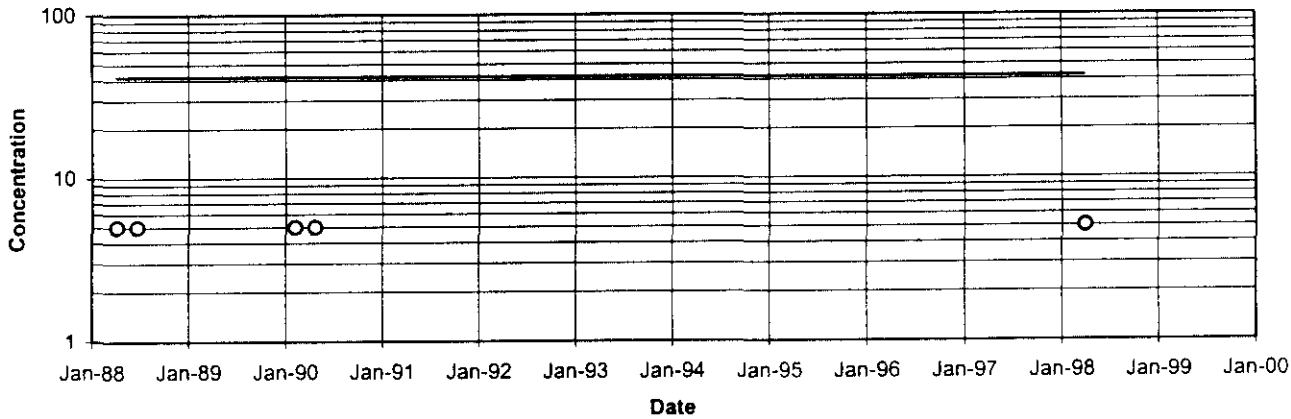
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

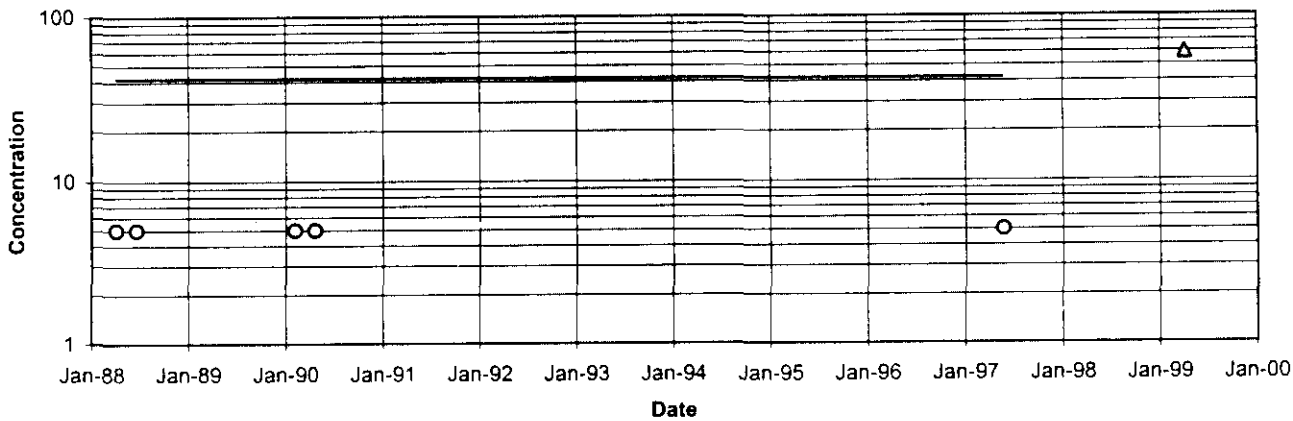
G115



G116



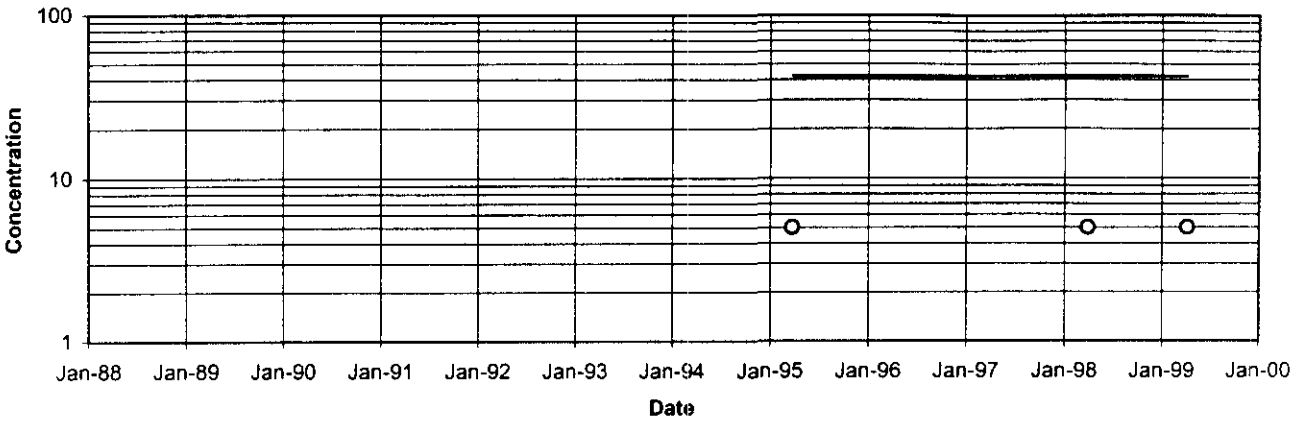
G116A



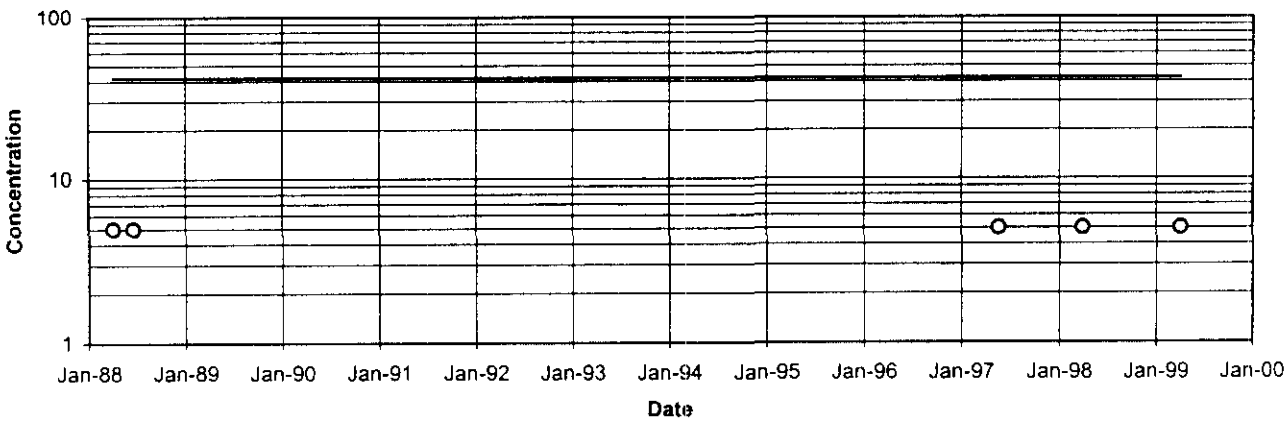
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

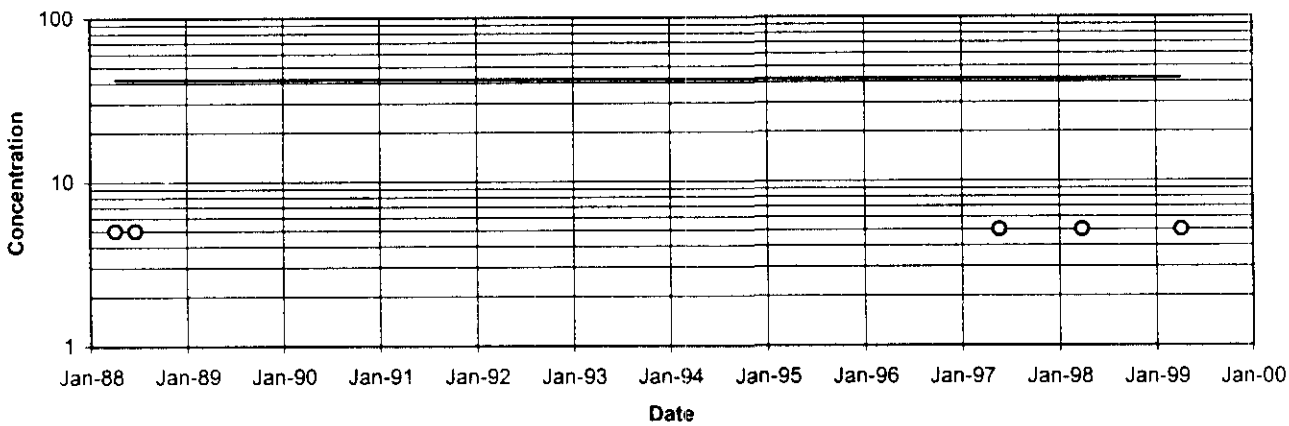
G116D



G117



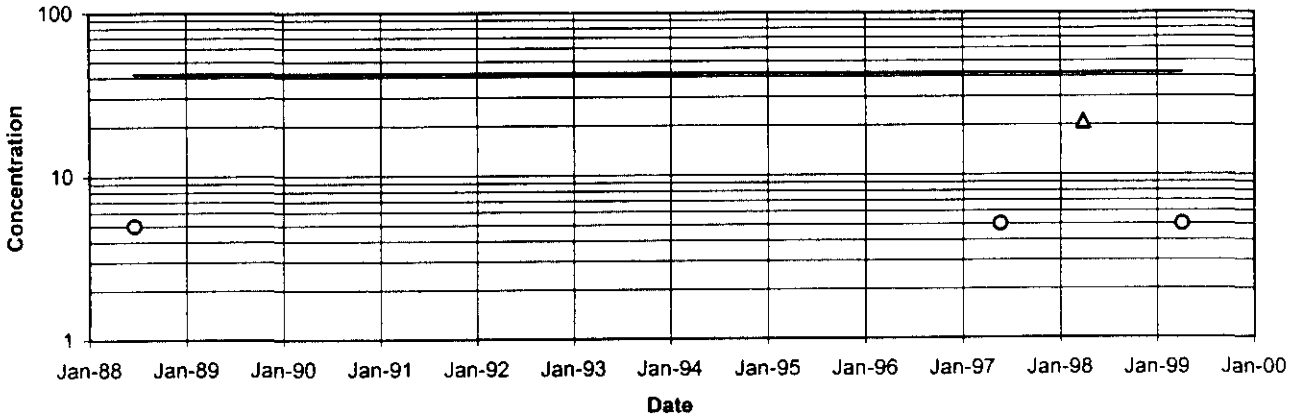
G118A



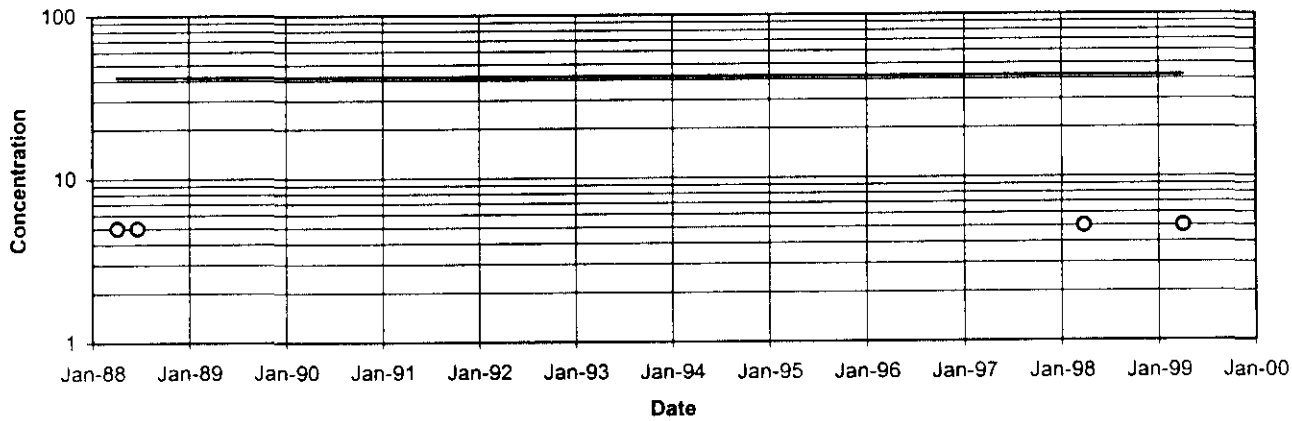
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

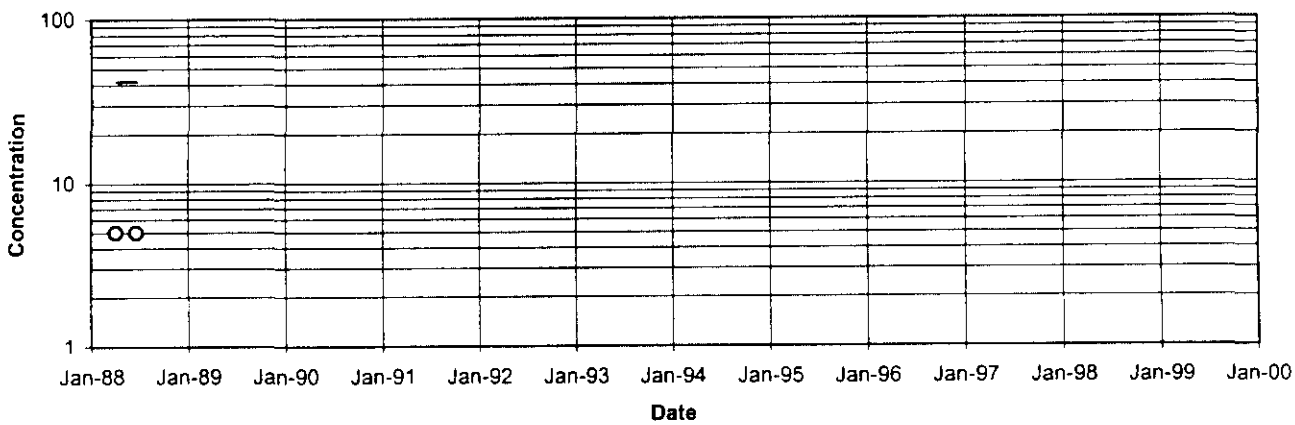
G118R



G119



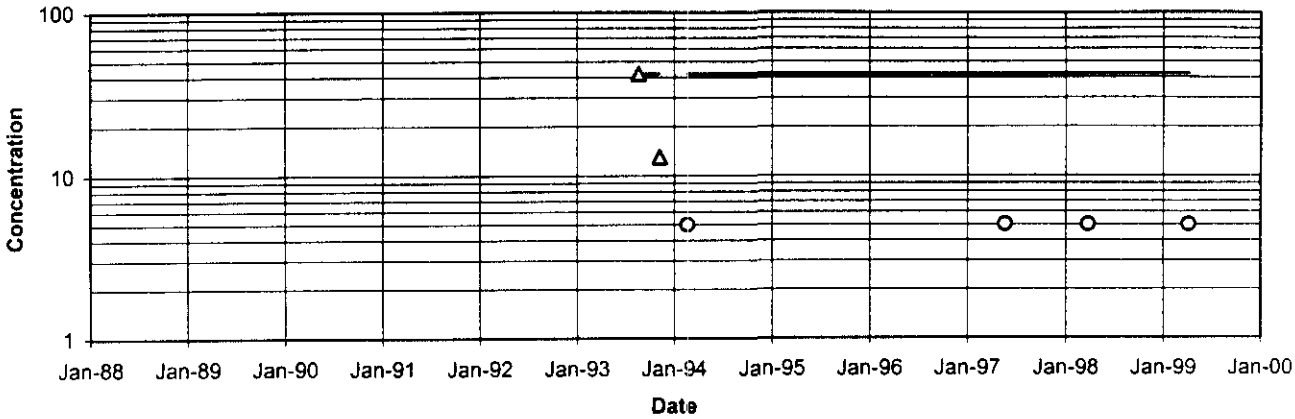
G119A



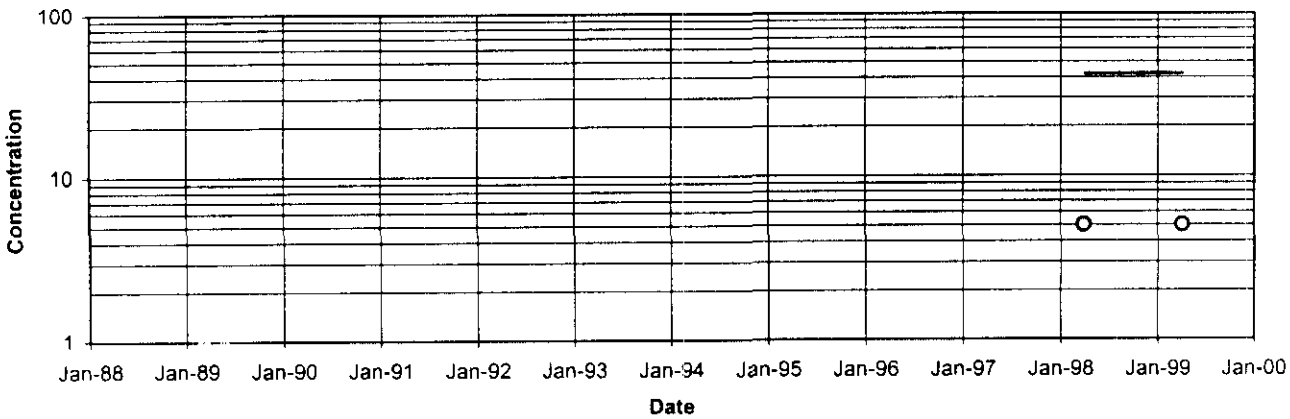
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

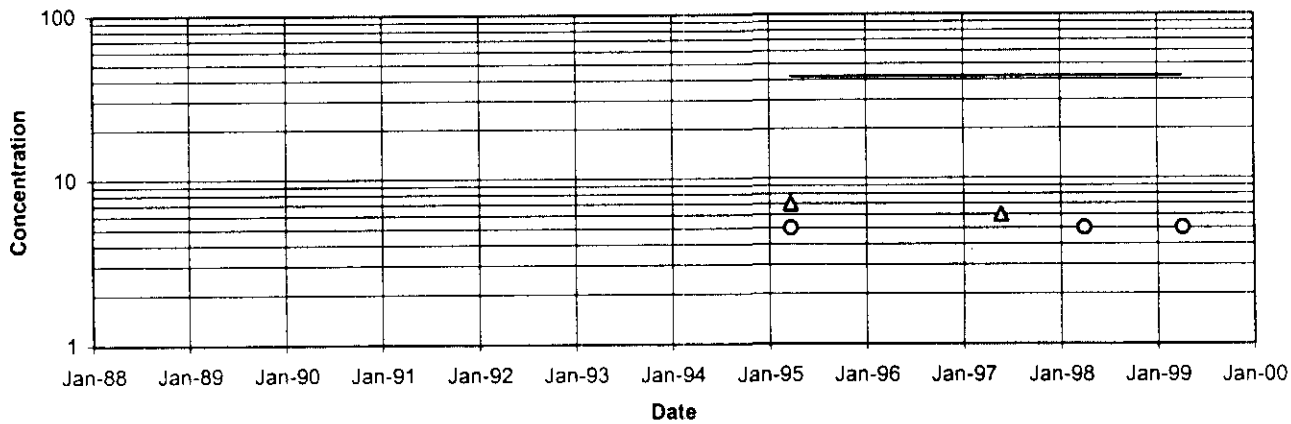
G120B



G130



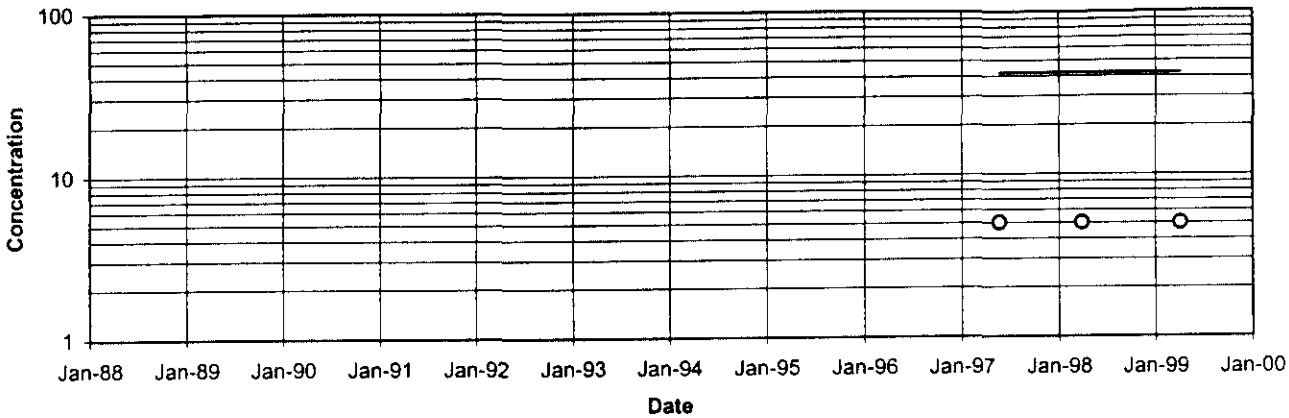
G132



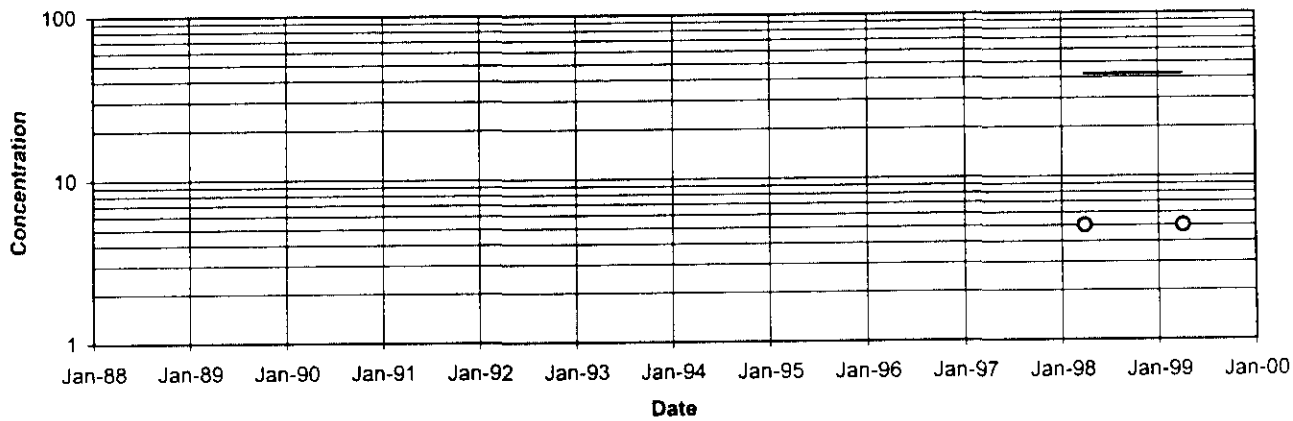
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

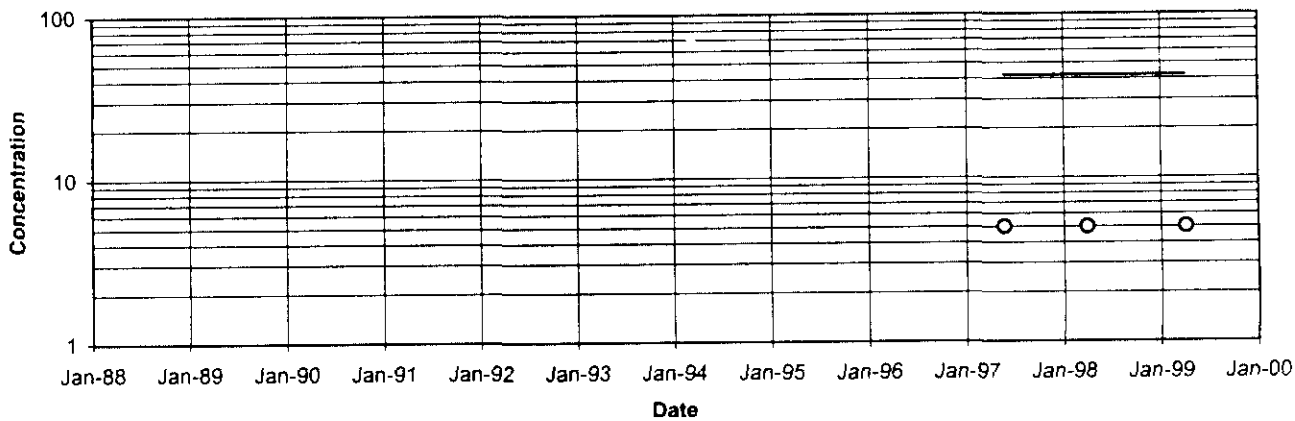
G33D



G33S



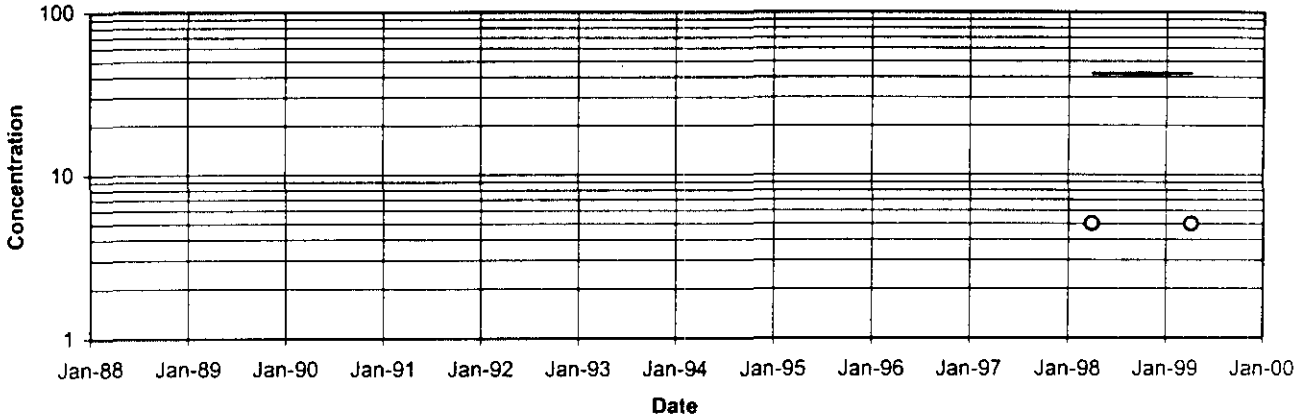
G34D



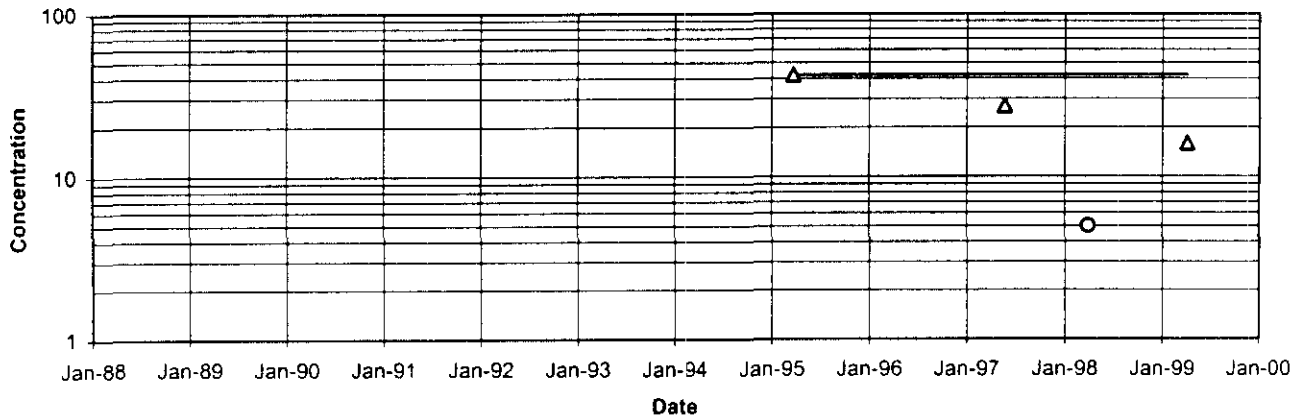
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

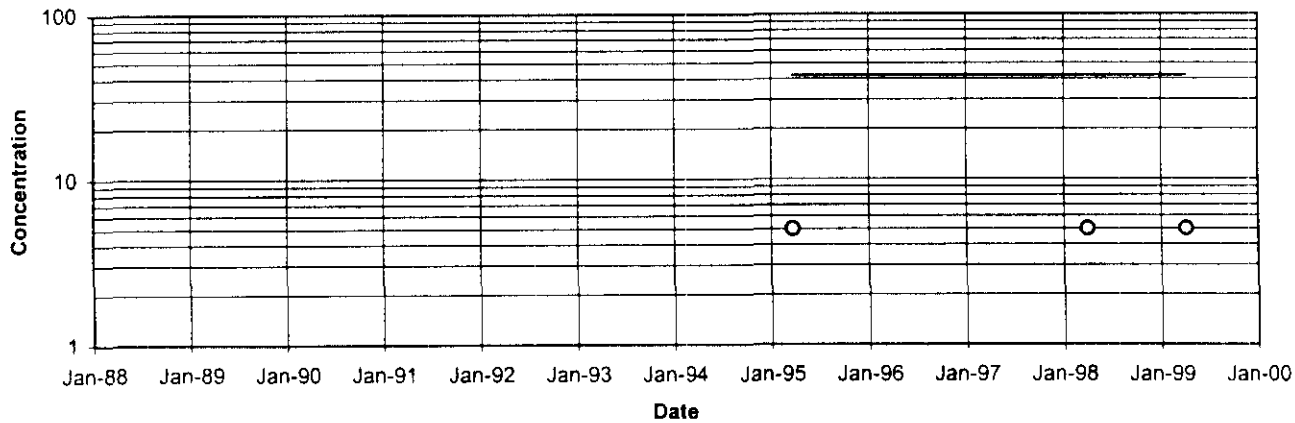
G34S



G35D



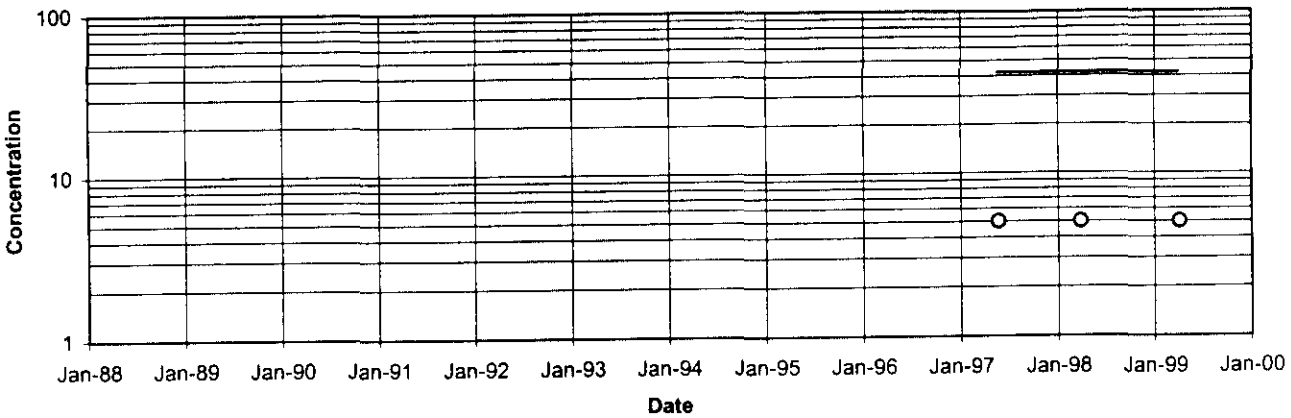
G35S



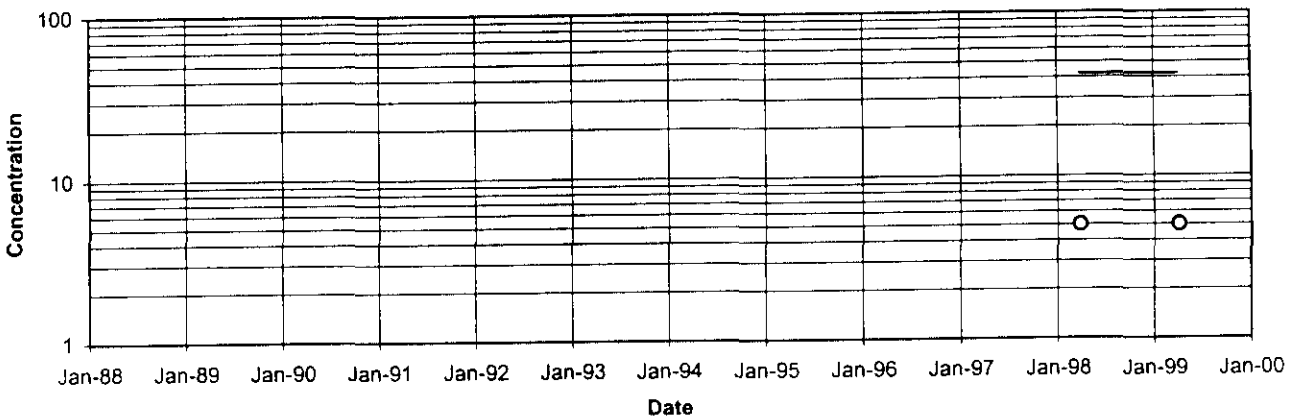
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

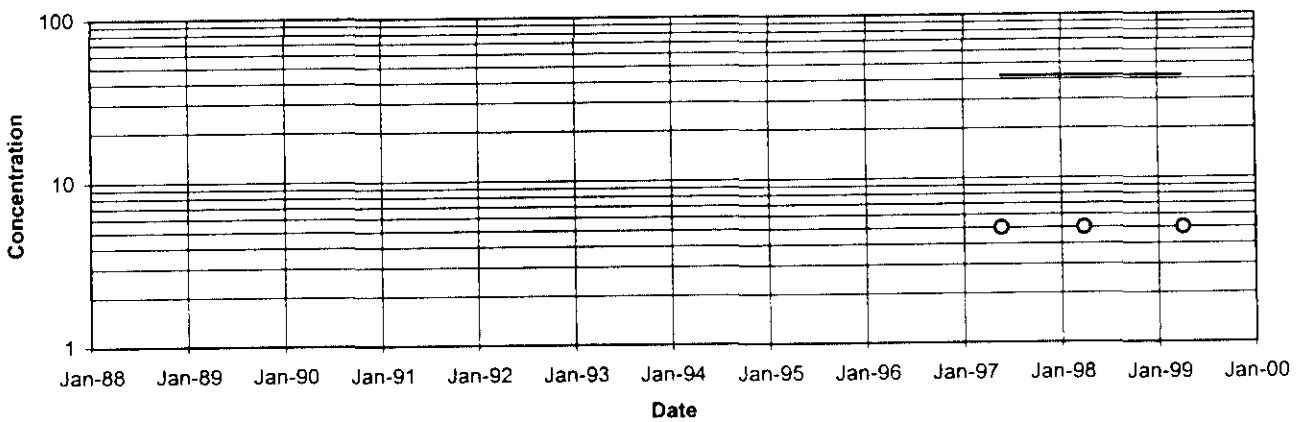
G36



G37D



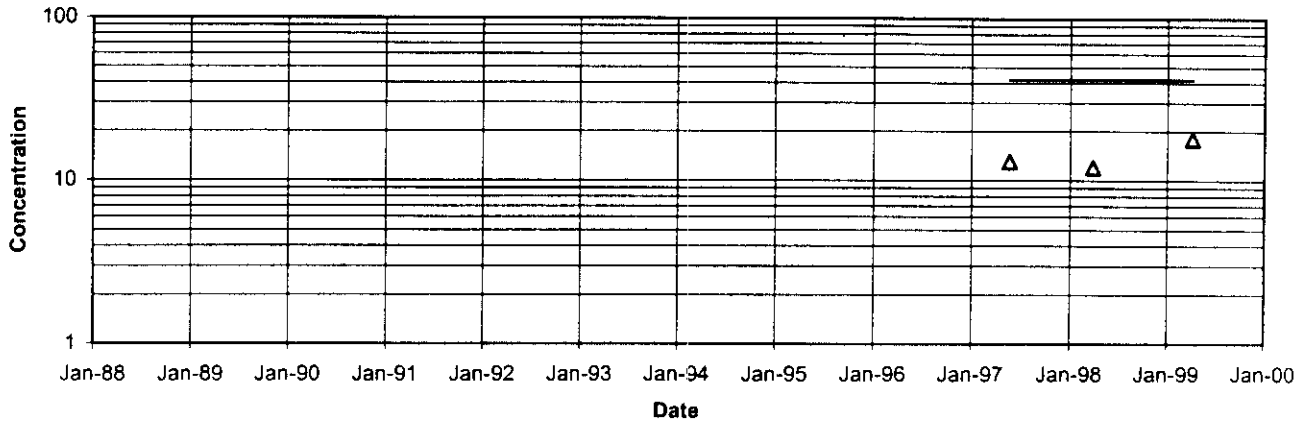
G37S



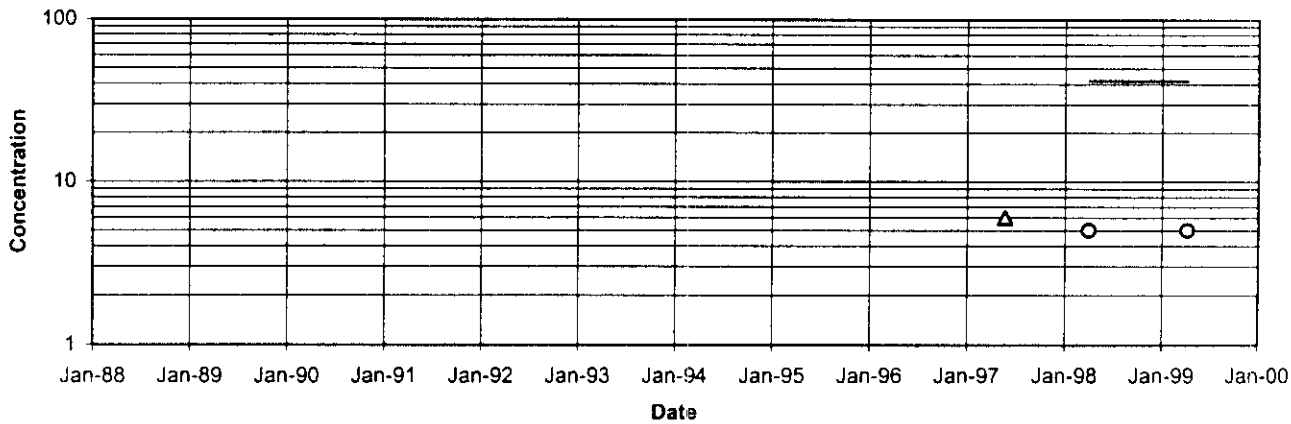
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

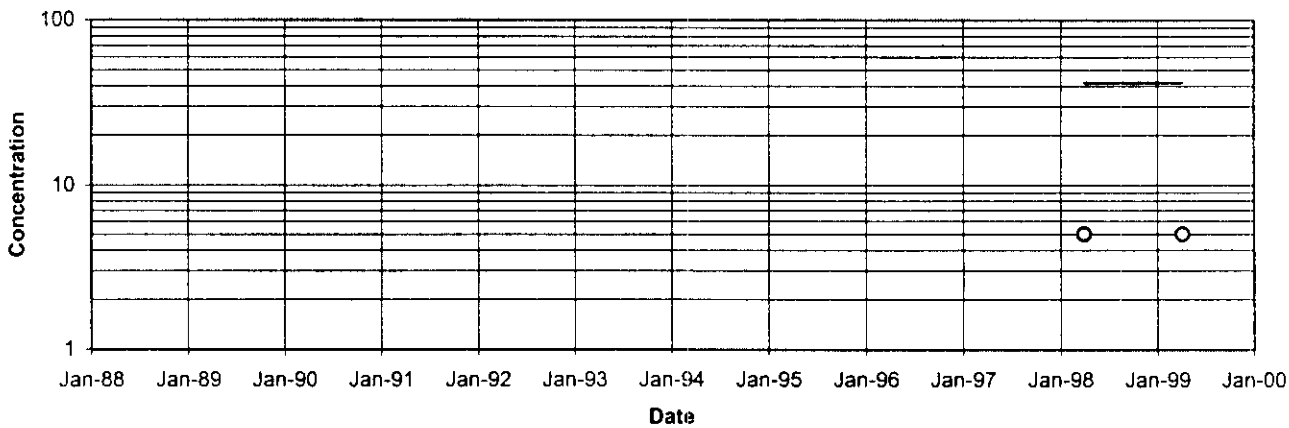
G38



G39



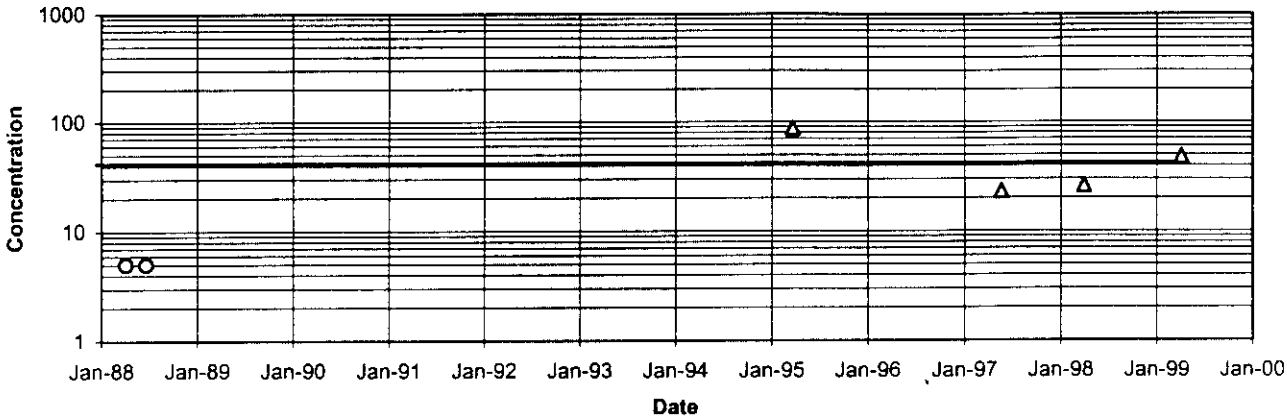
G40



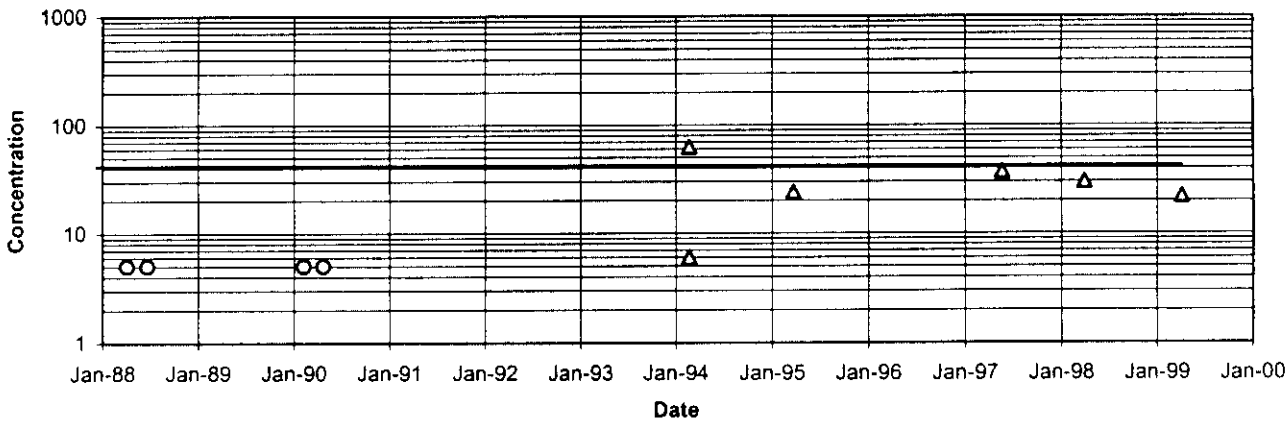
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

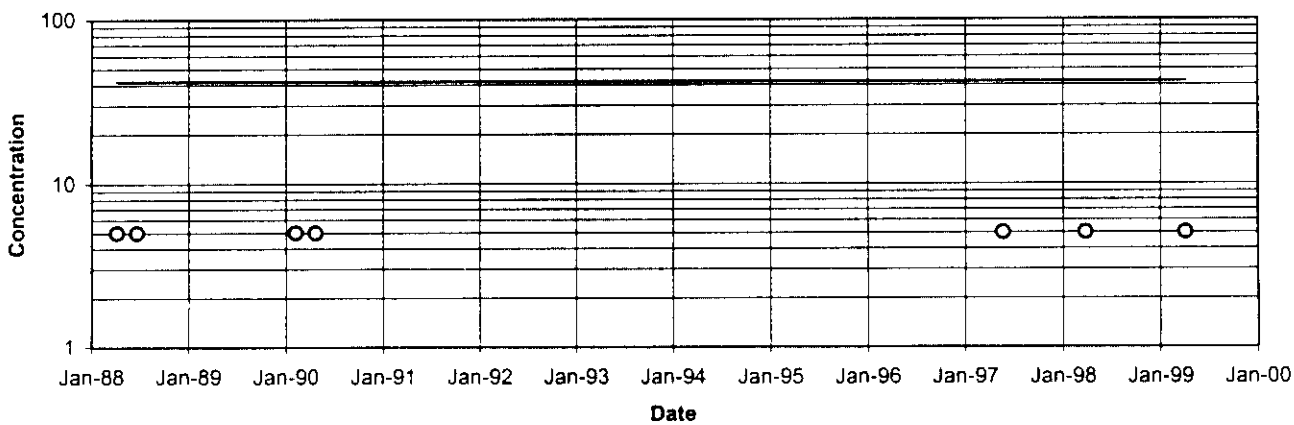
MW106



P1



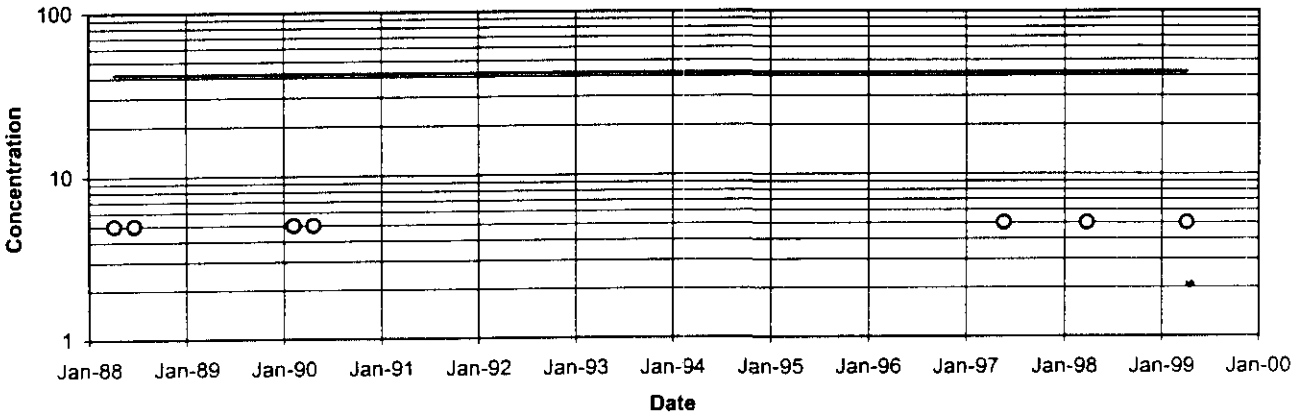
P3R



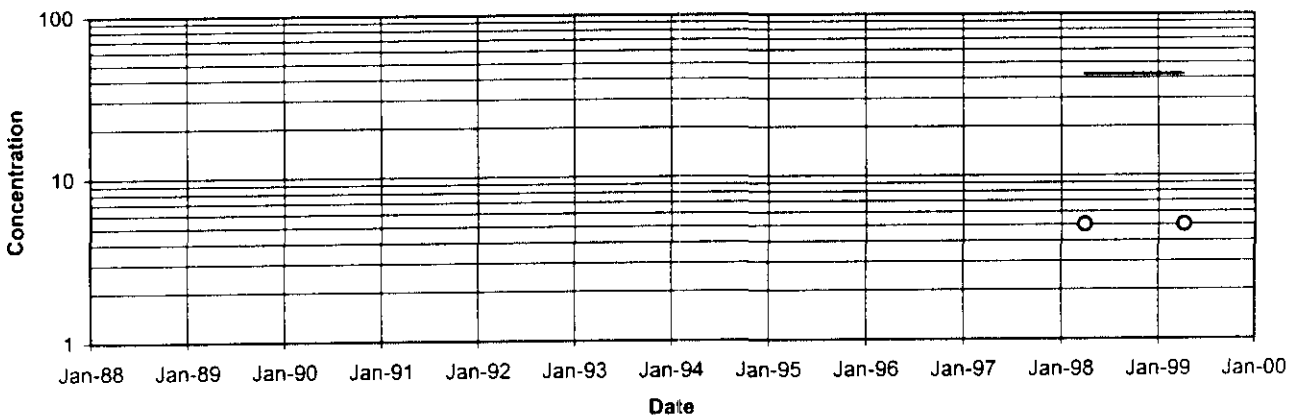
Tetrahydrofuran (ug/L)

AGQS Δ Concentration O NonDetect

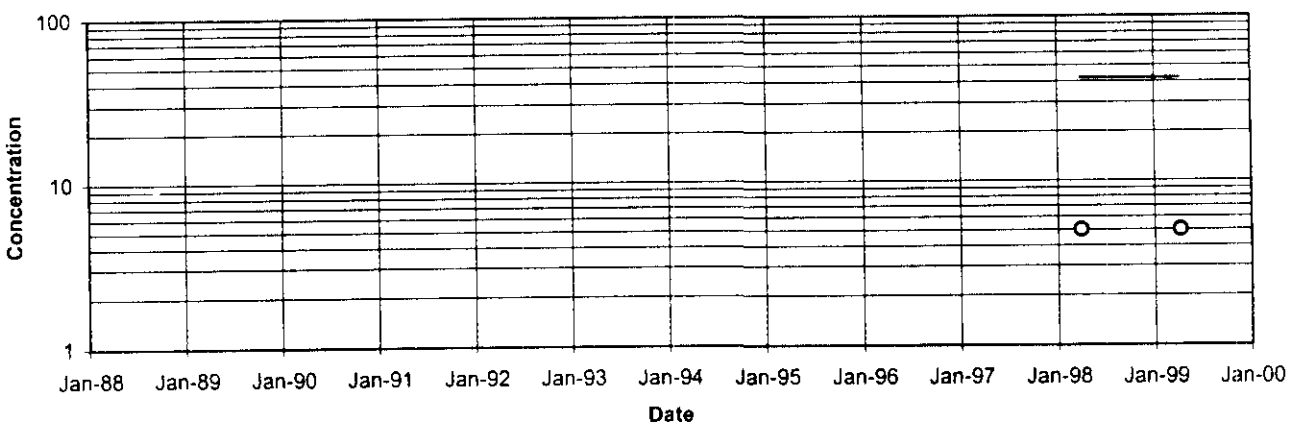
P4R



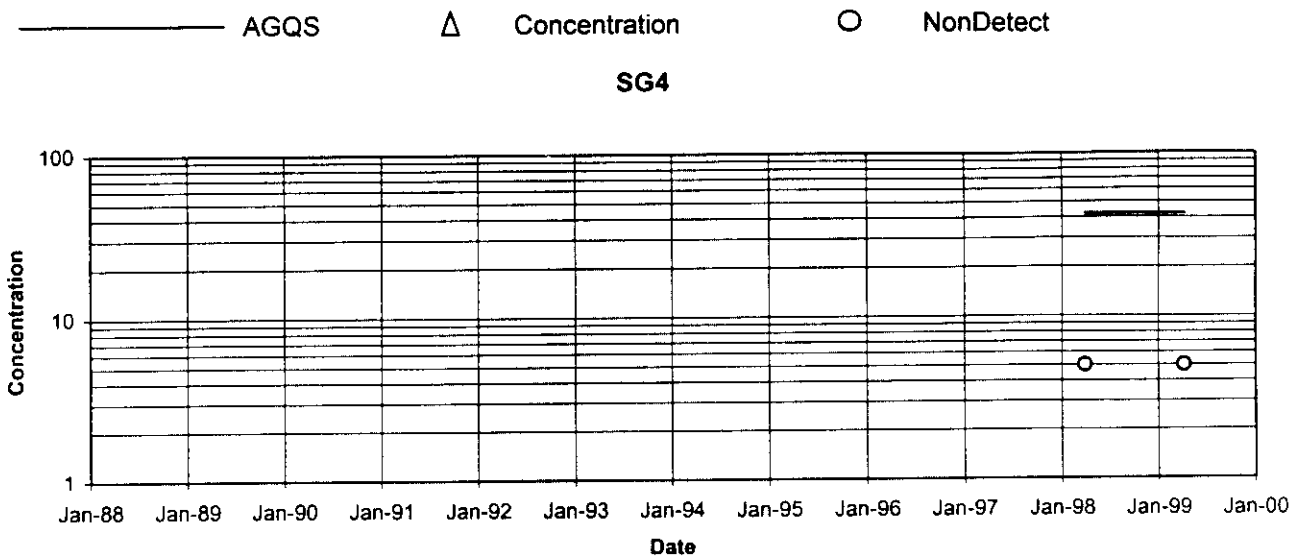
SG1



SG3



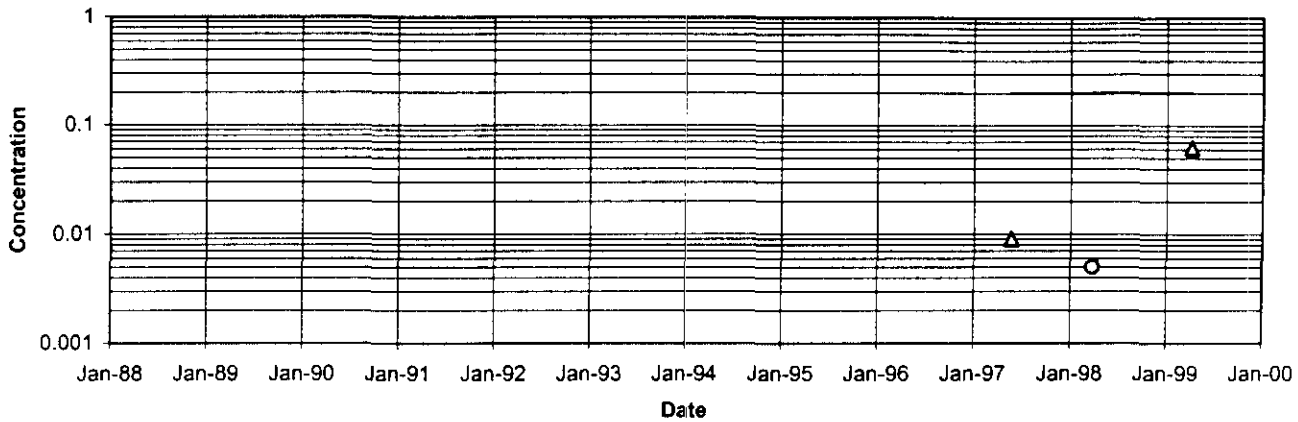
Tetrahydrofuran (ug/L)



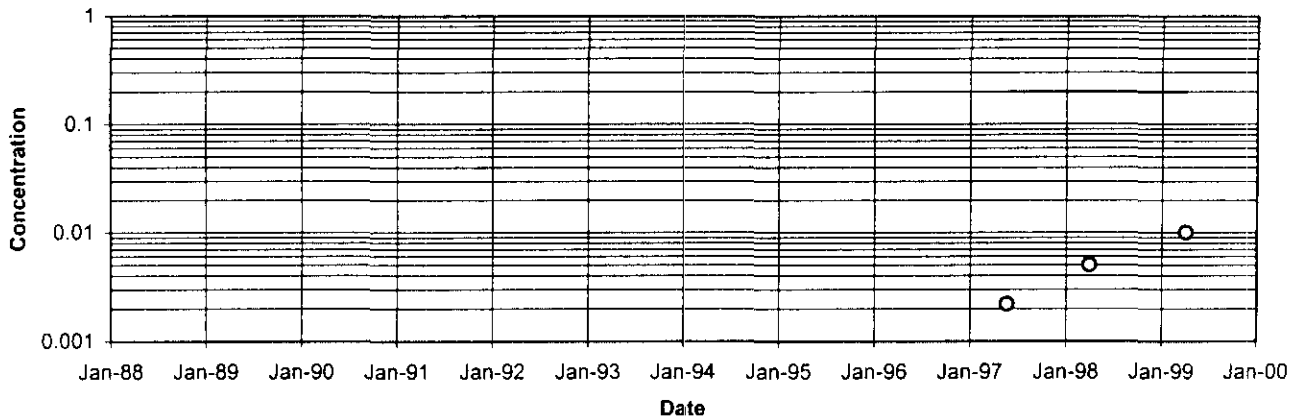
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

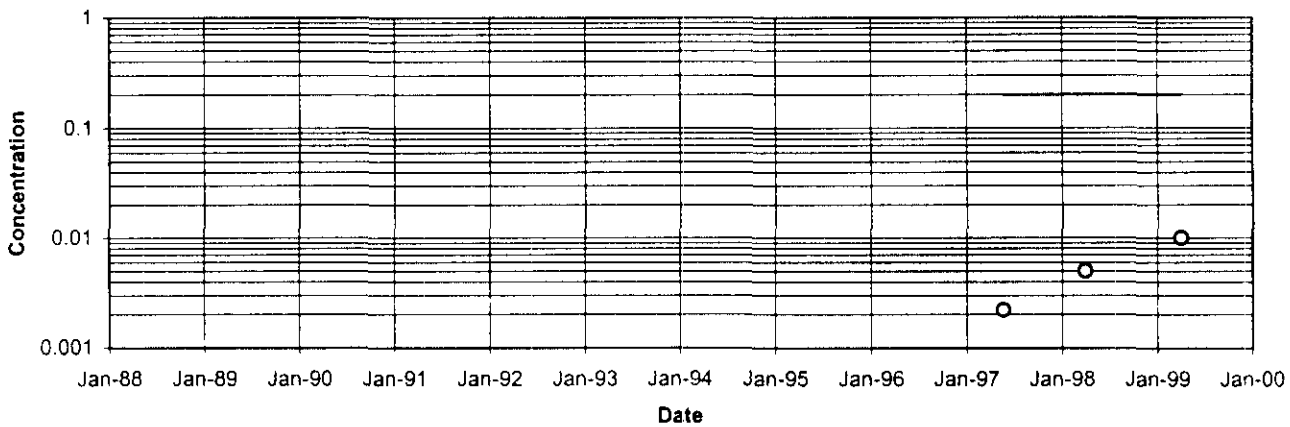
B15R



G109



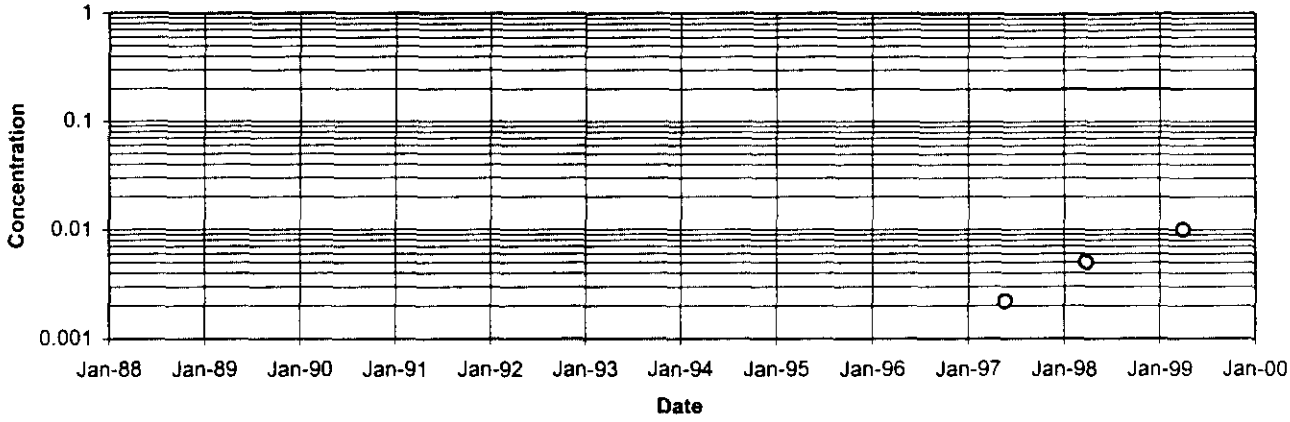
G109A



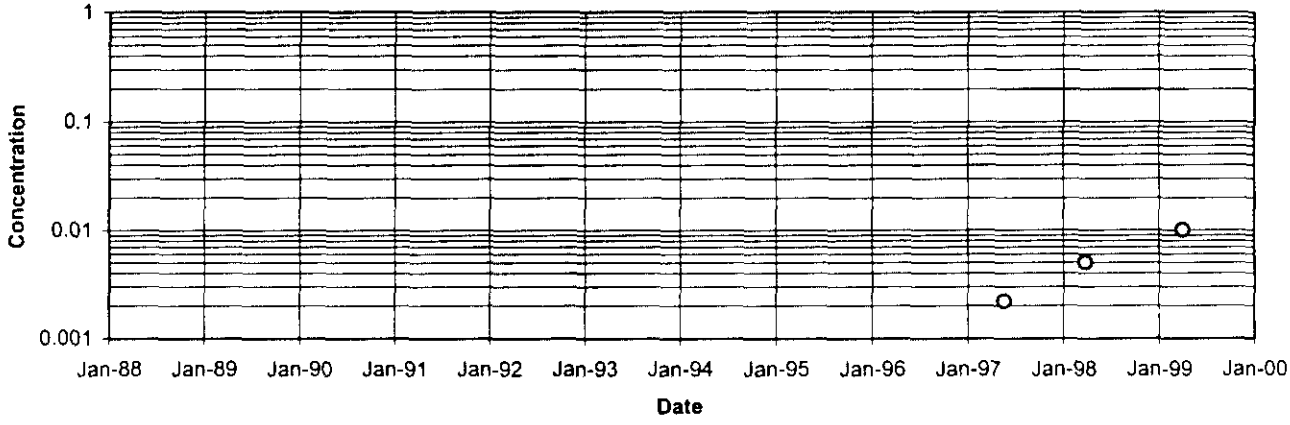
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

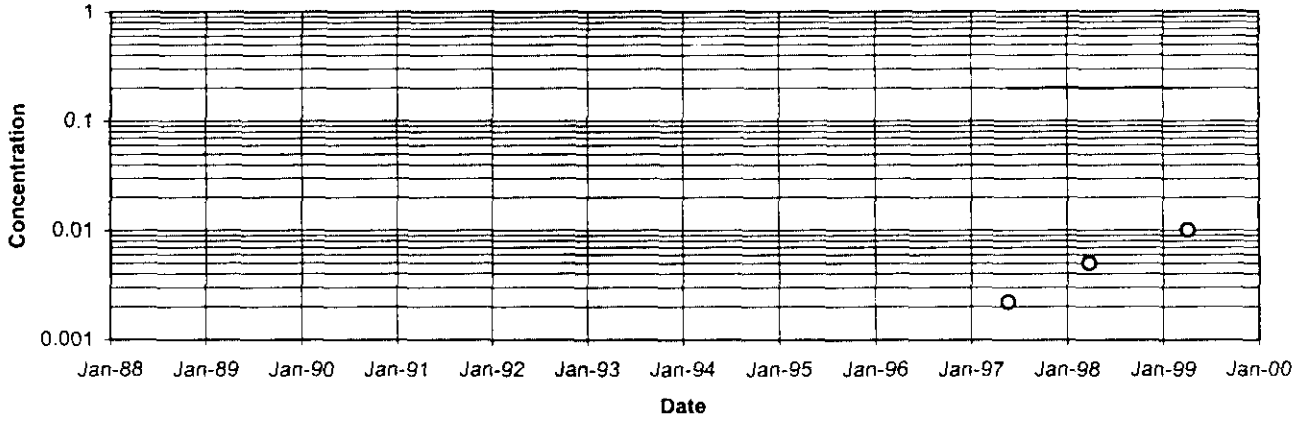
G113



G113A



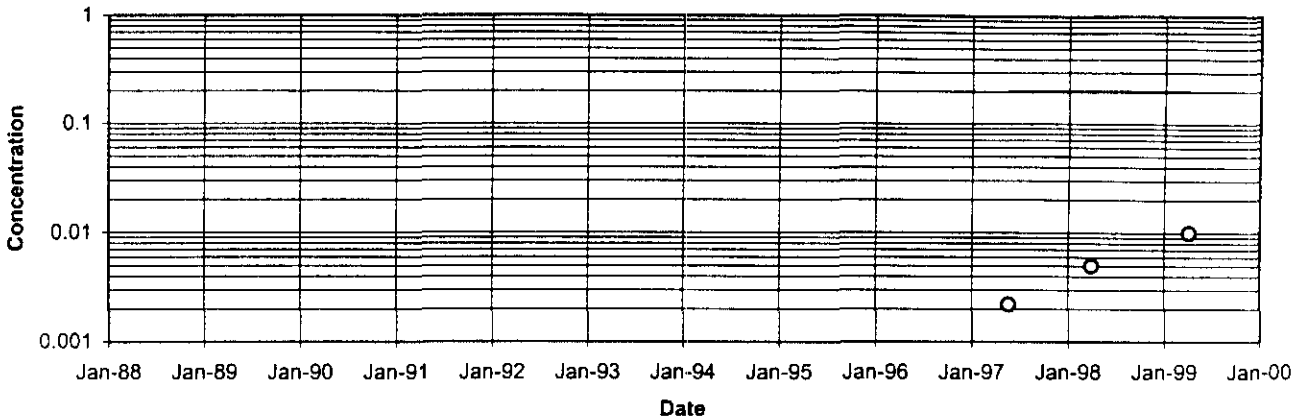
G114



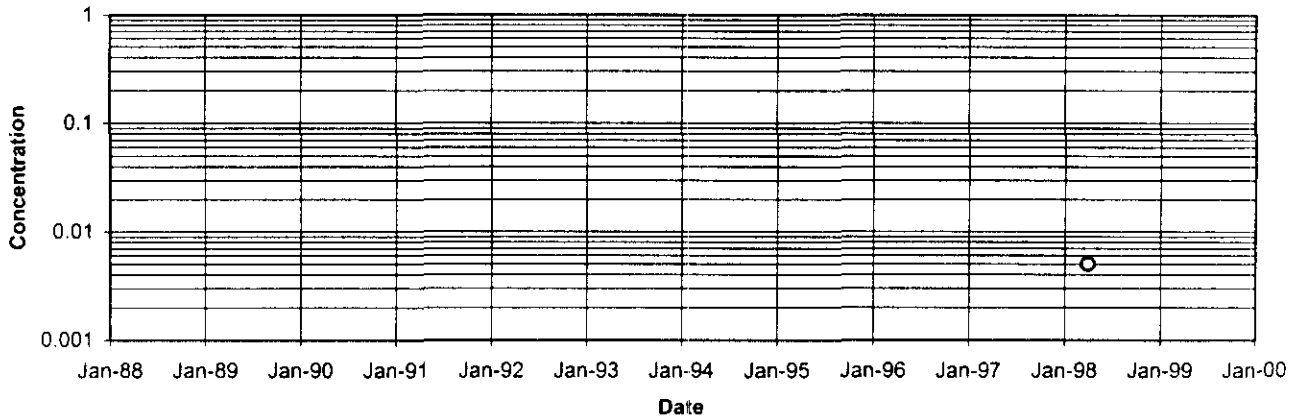
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

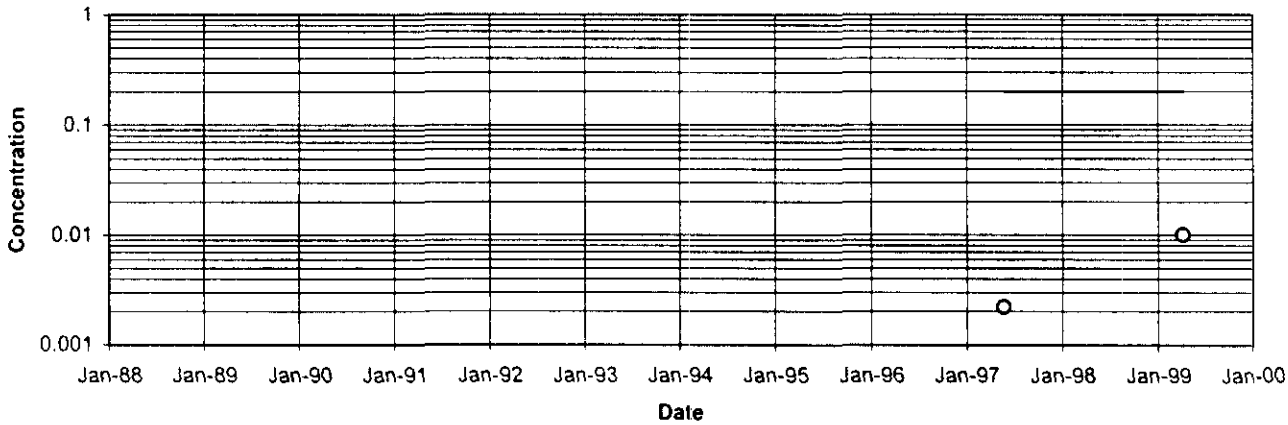
G115



G116



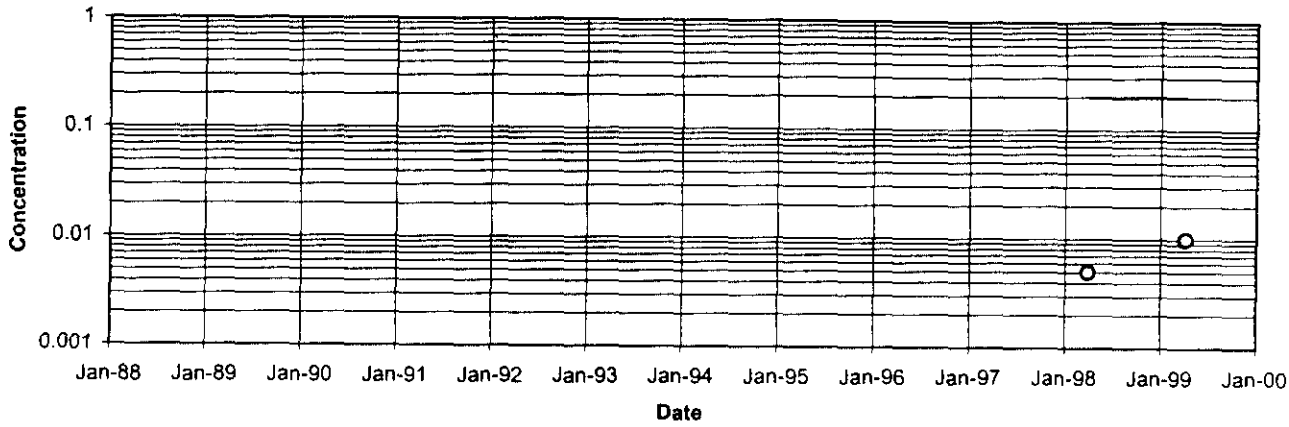
G116A



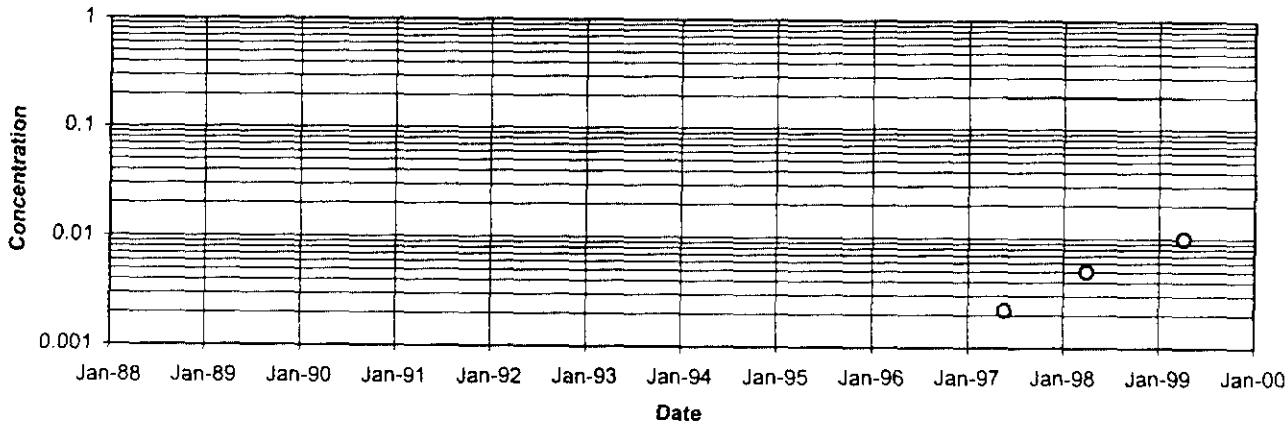
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

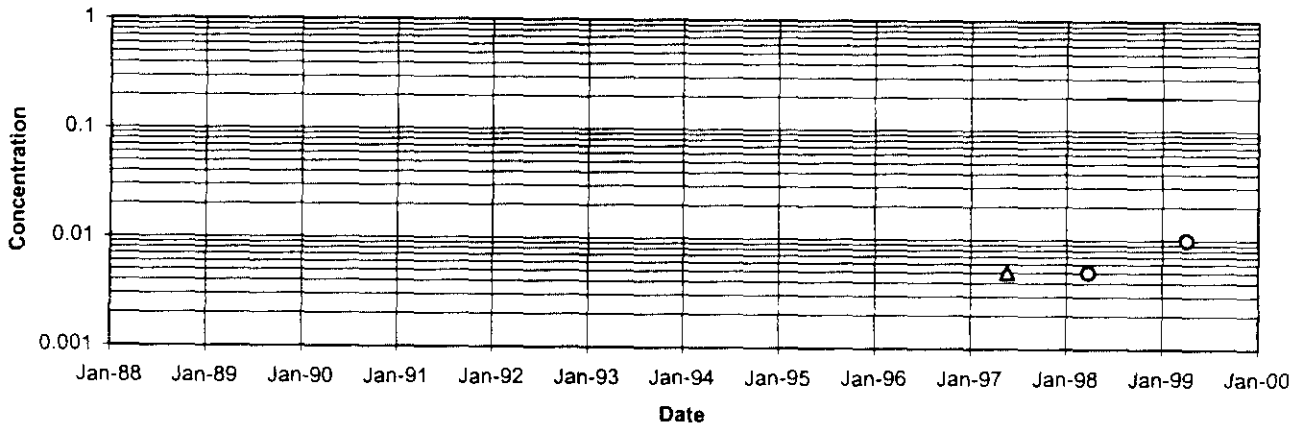
G116D



G117



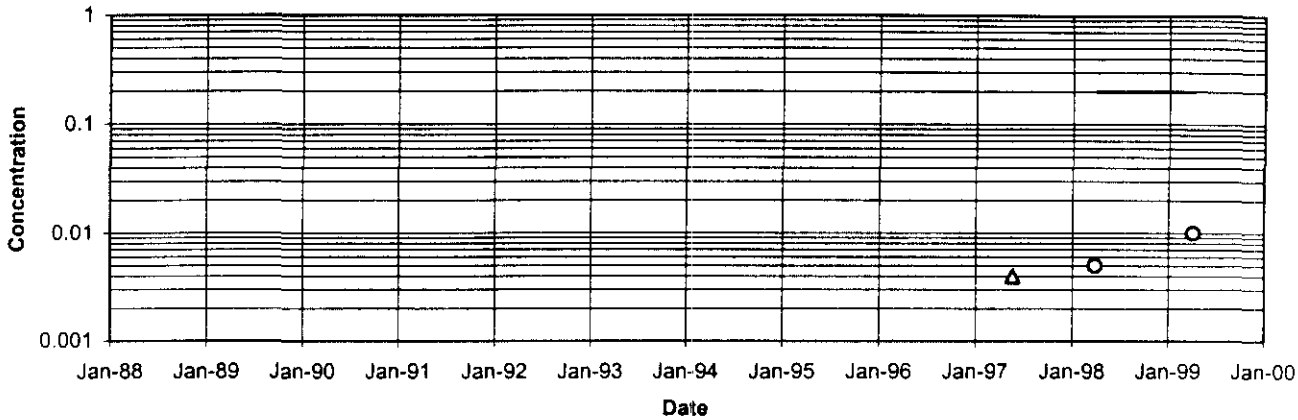
G118A



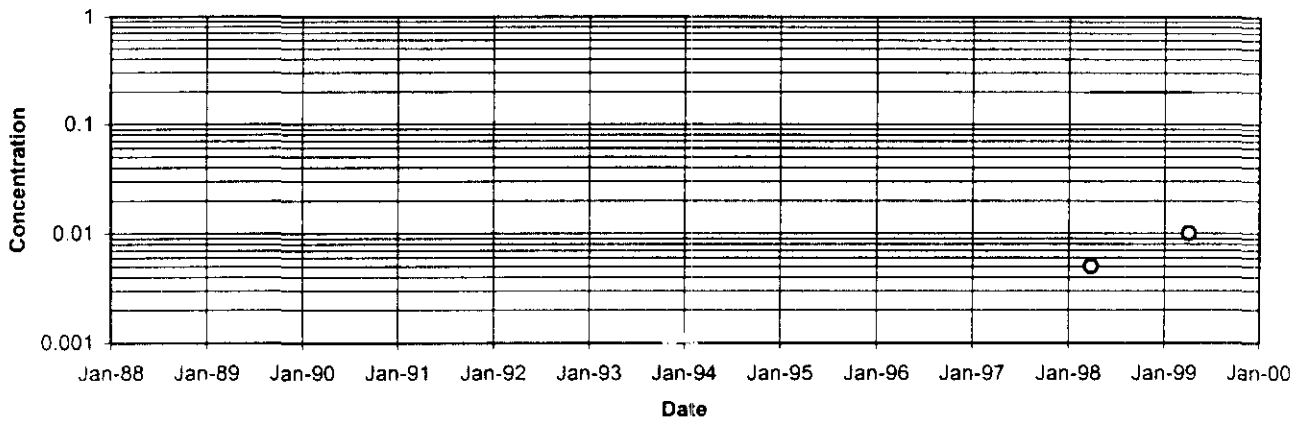
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

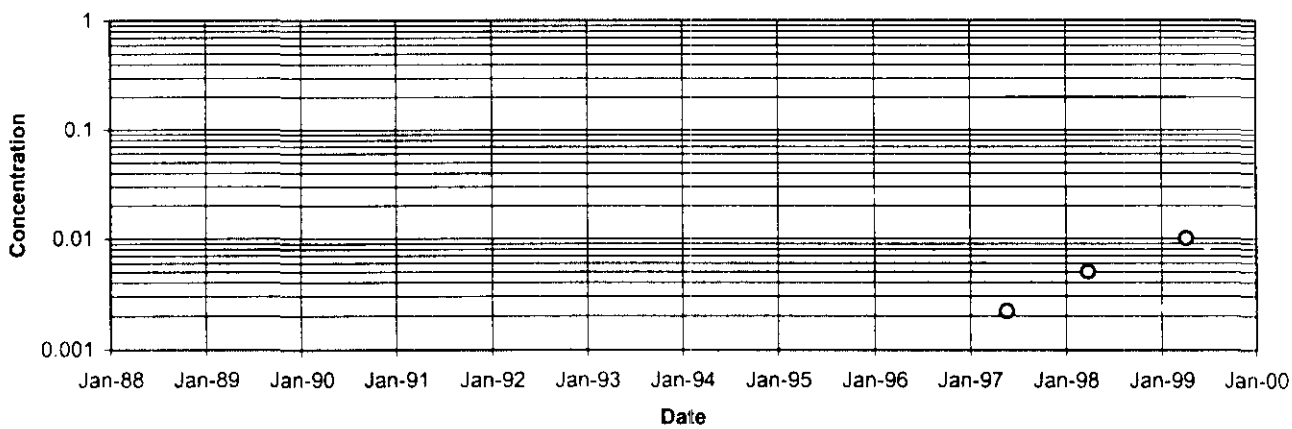
G118R



G119



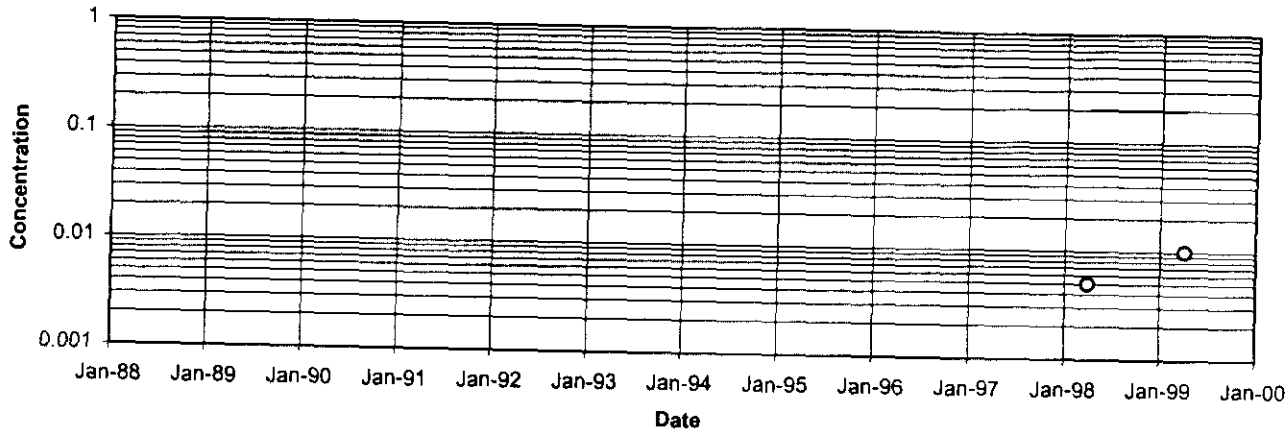
G120B



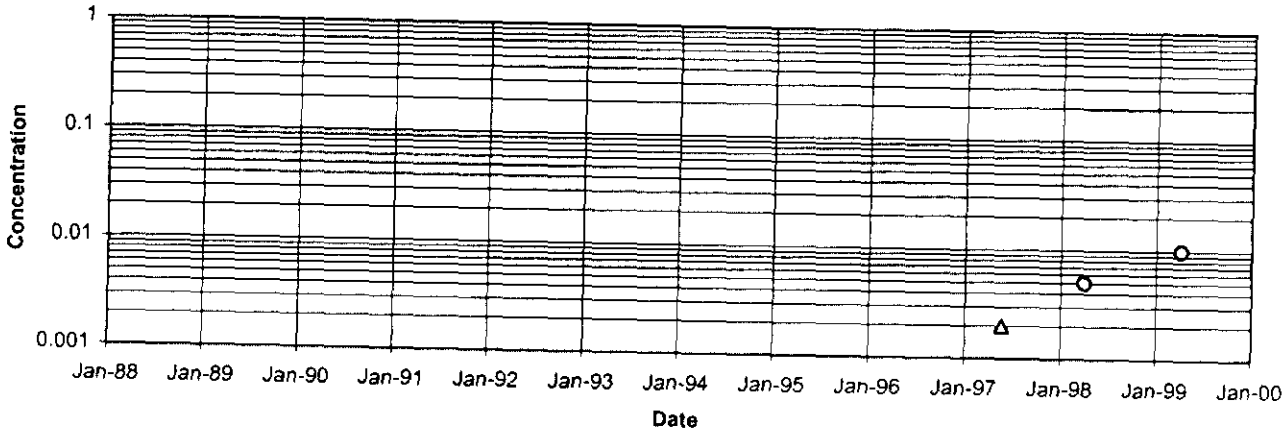
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

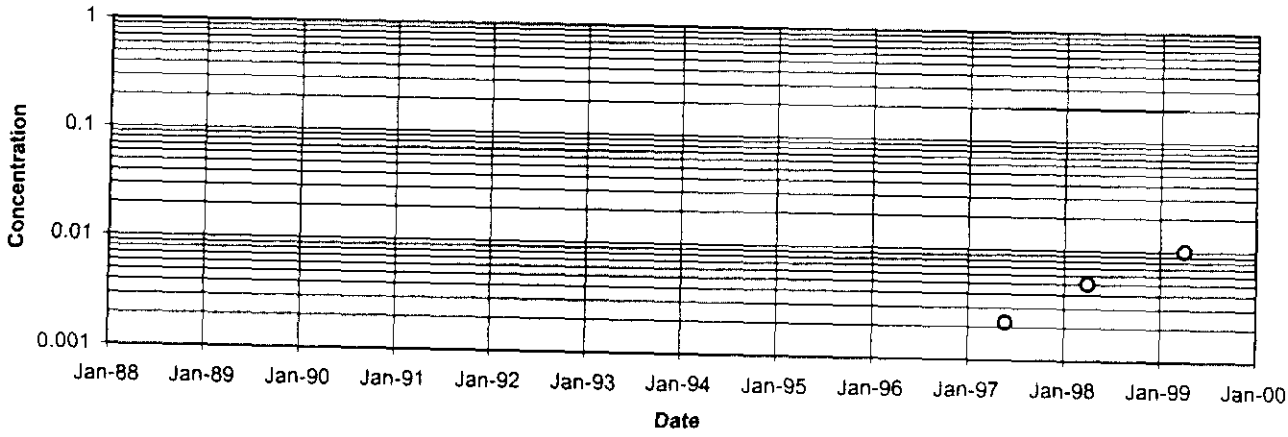
G130



G132



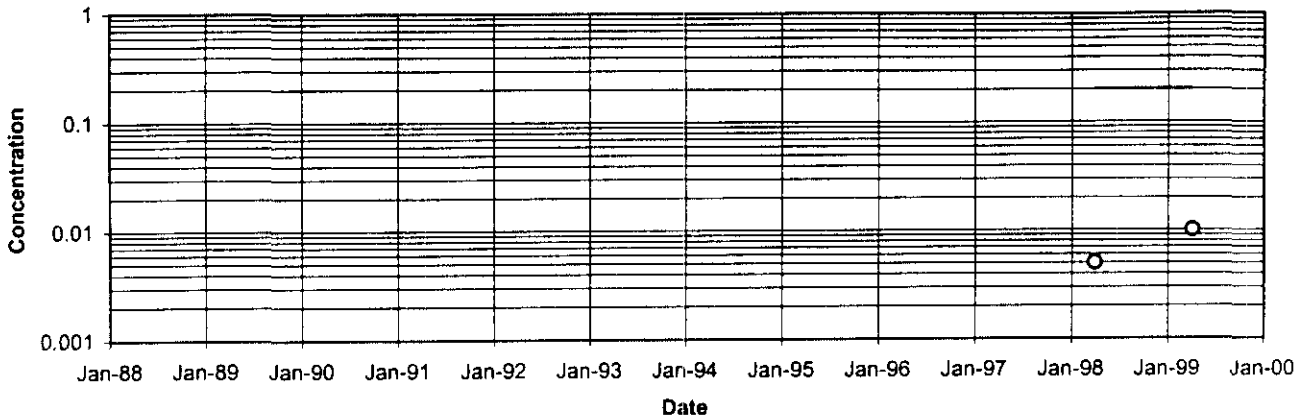
G33D



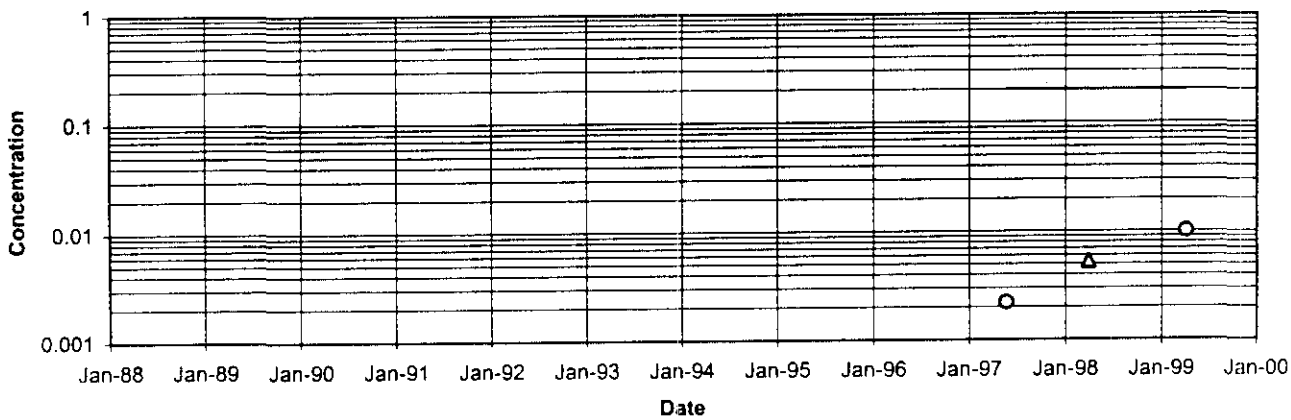
Thallium (mg/L)

AGQS Δ Concentration ○ NonDetect

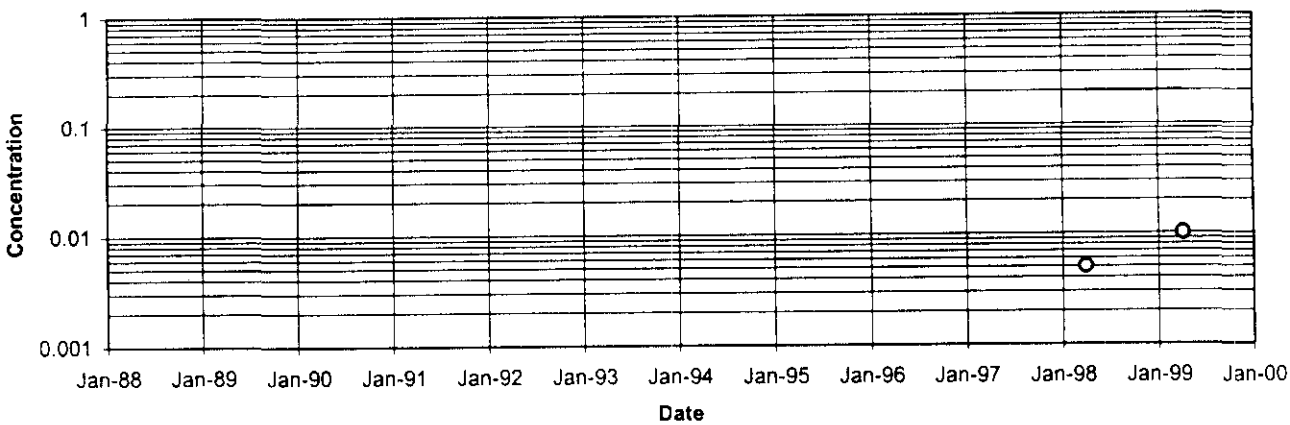
G33S



G34D



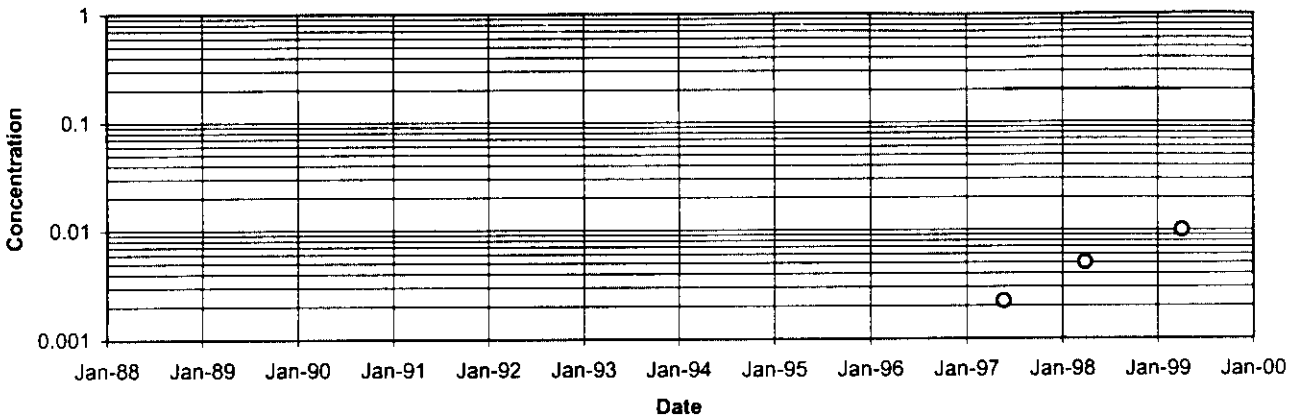
G34S



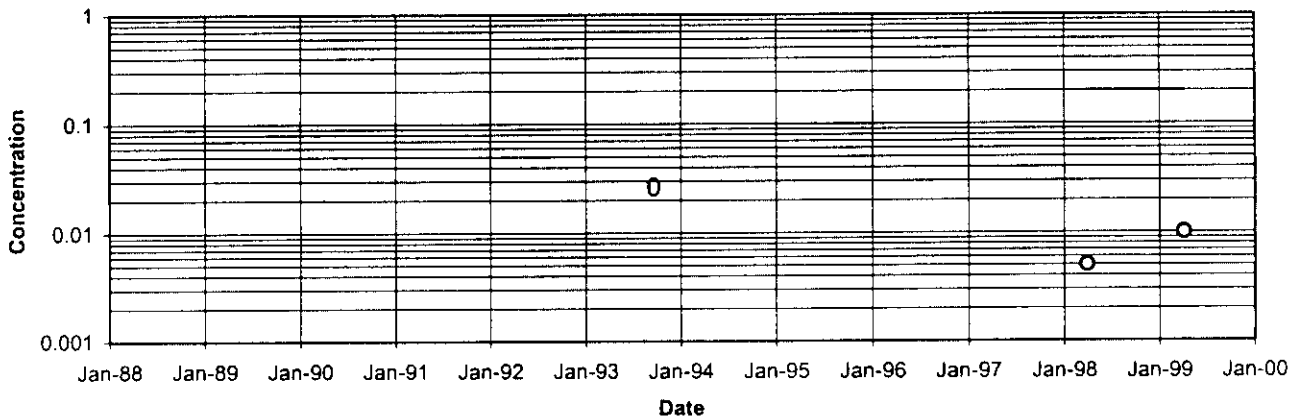
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

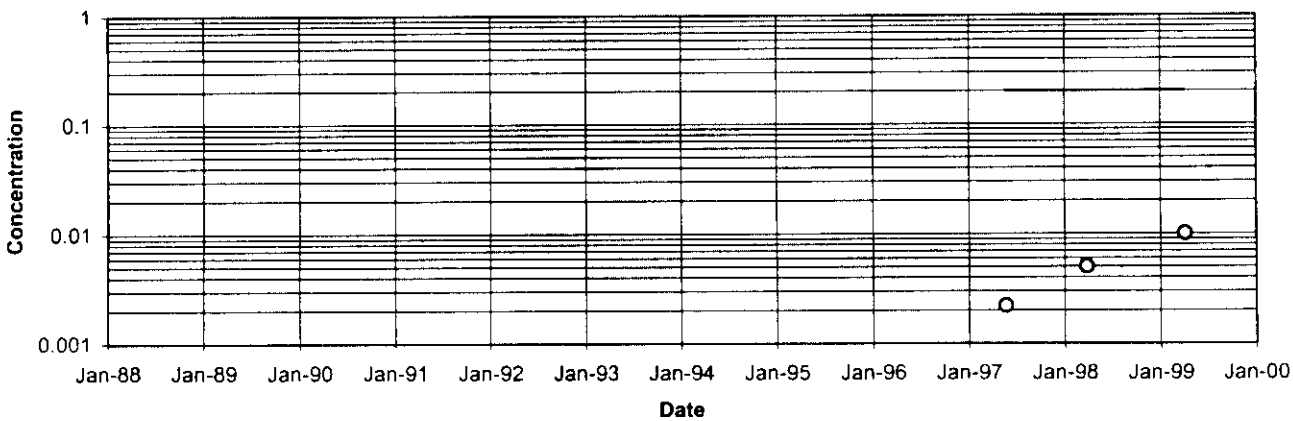
G35D



G35S



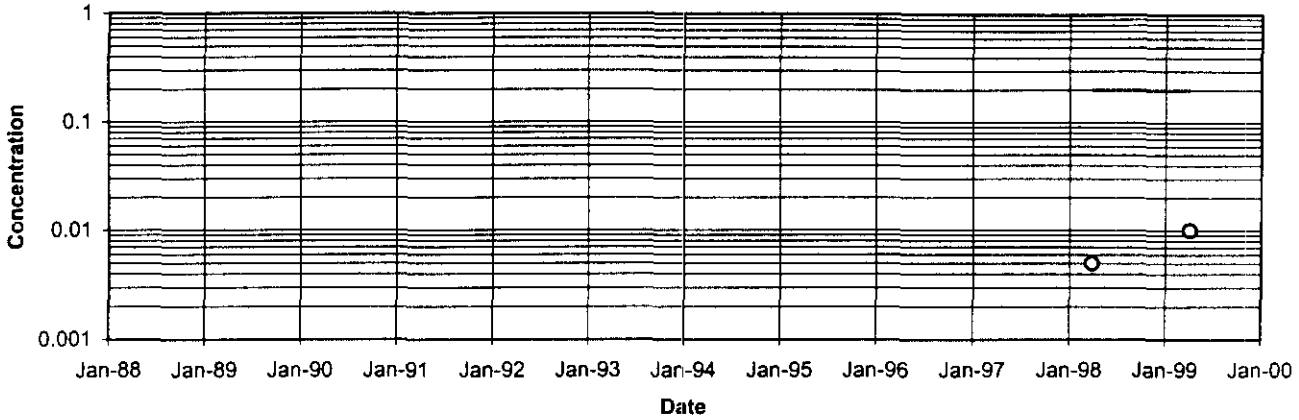
G36



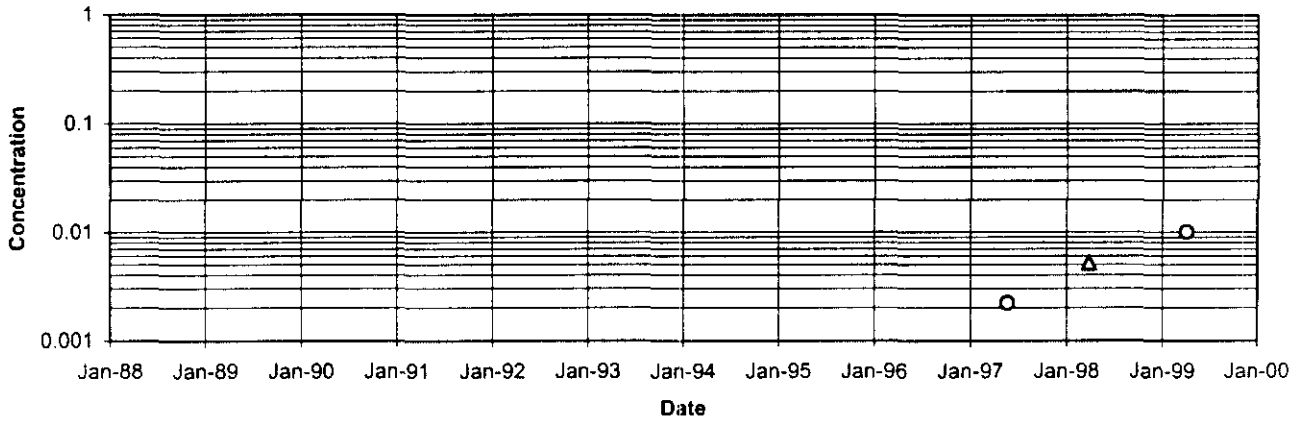
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

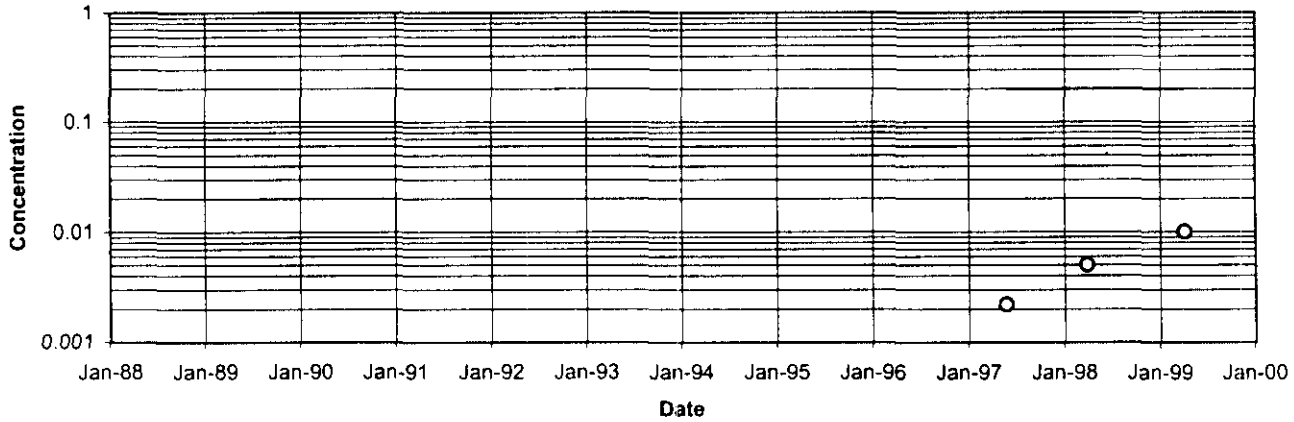
G37D



G37S



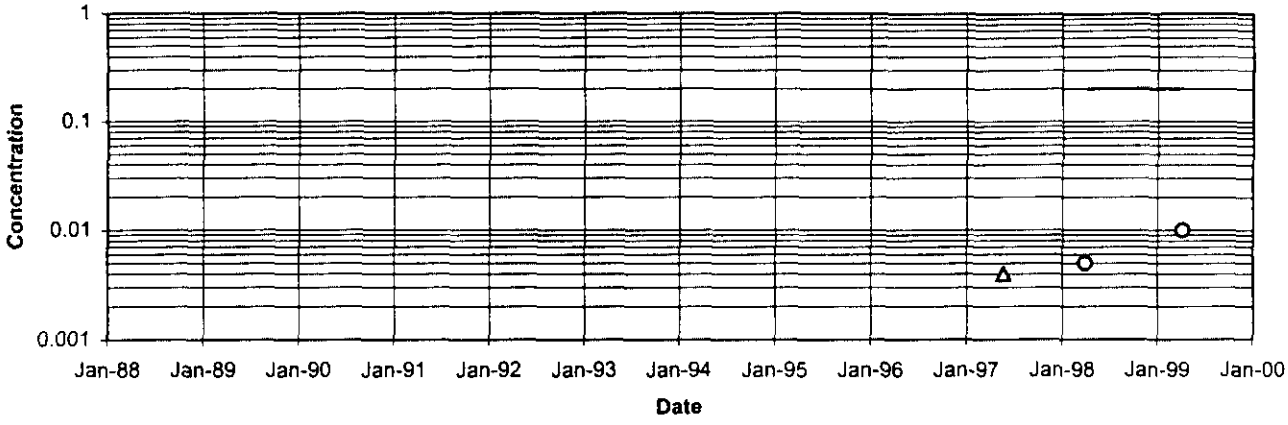
G38



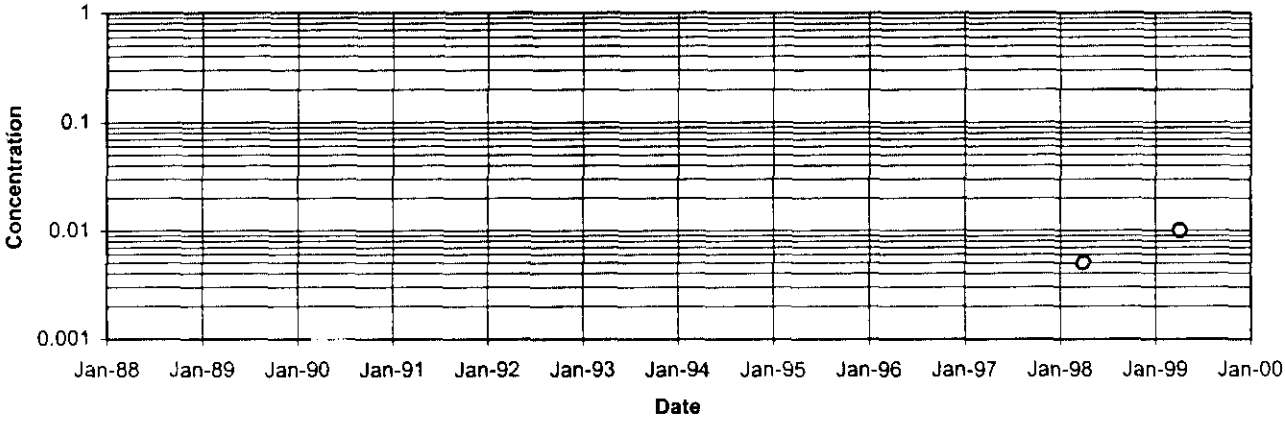
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

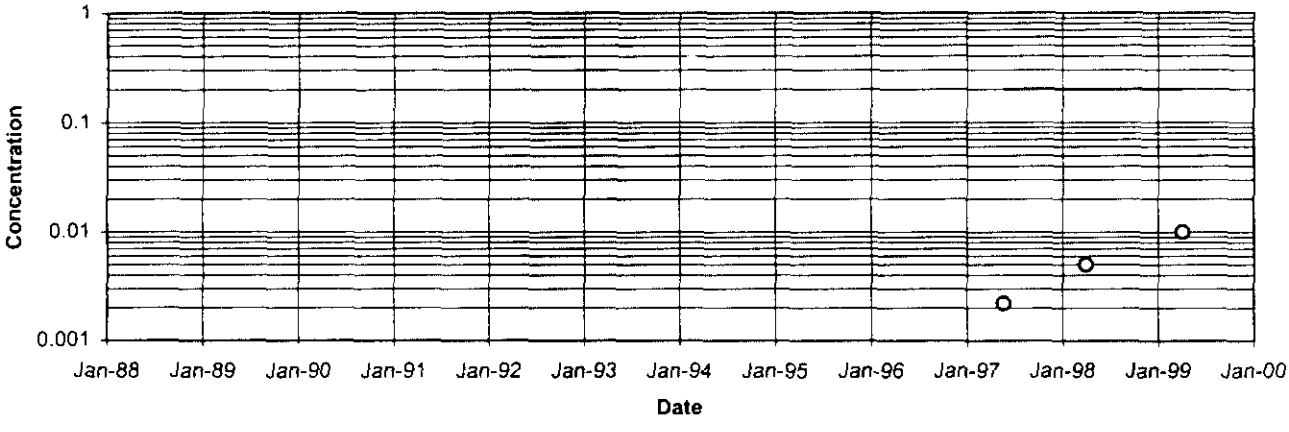
G39



G40



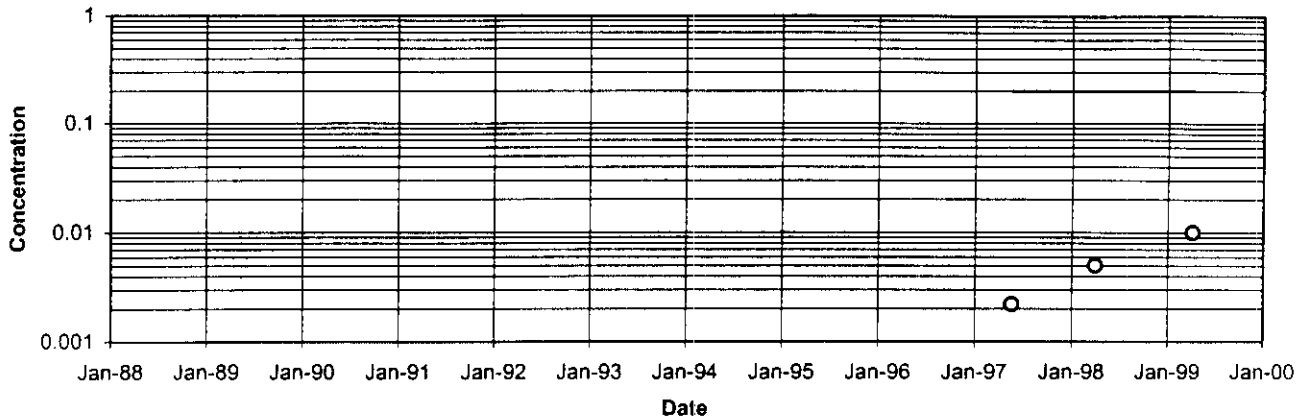
MW106



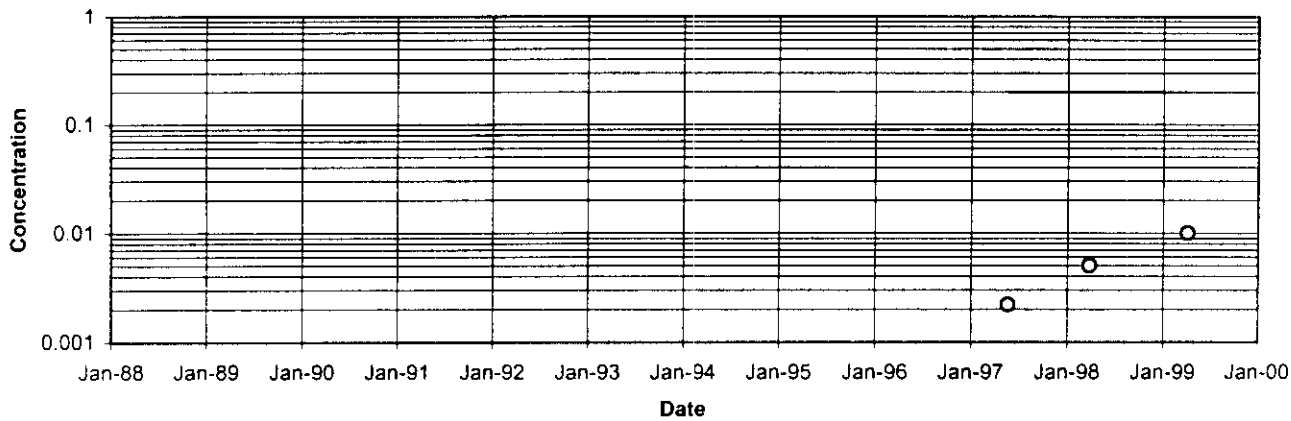
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

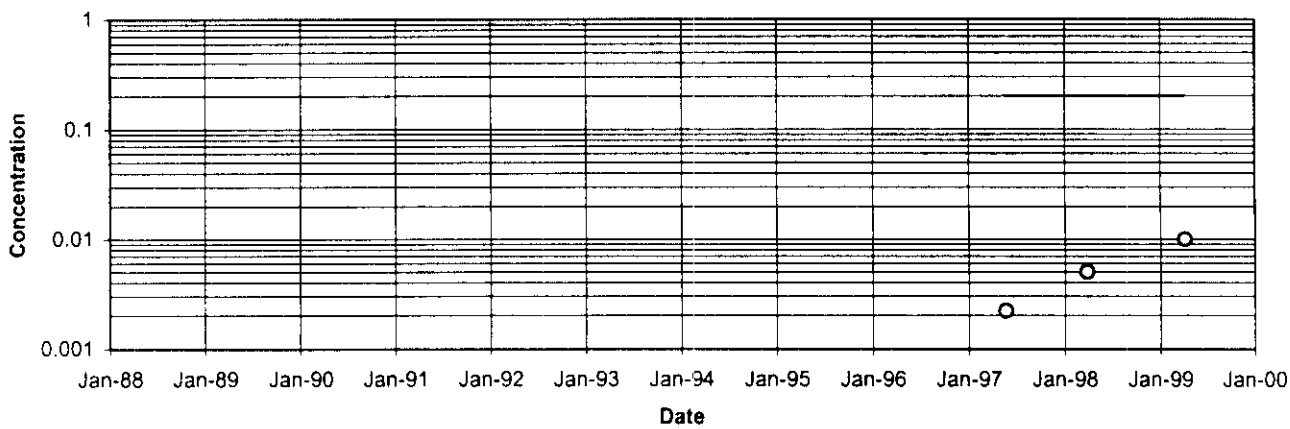
P1



P3R



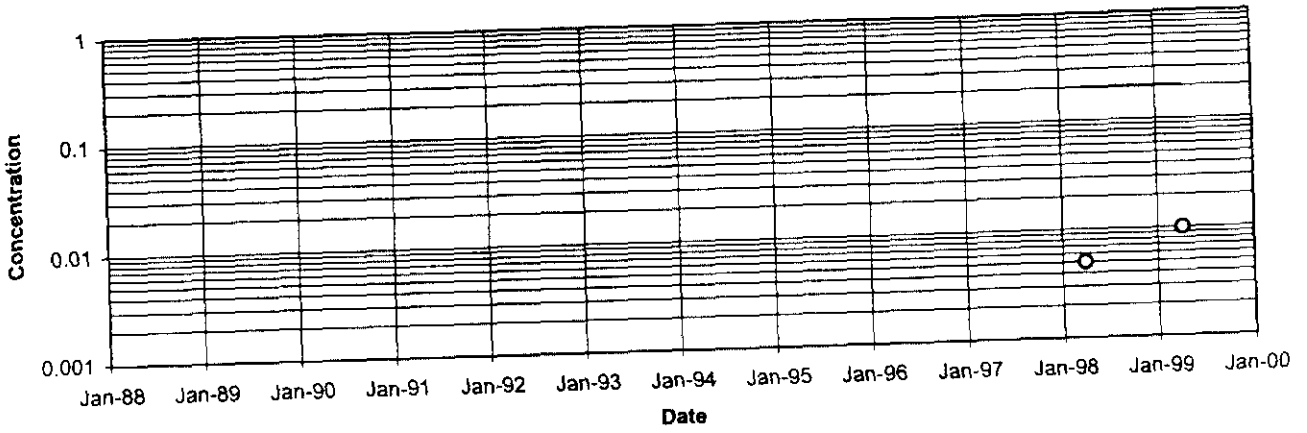
P4R



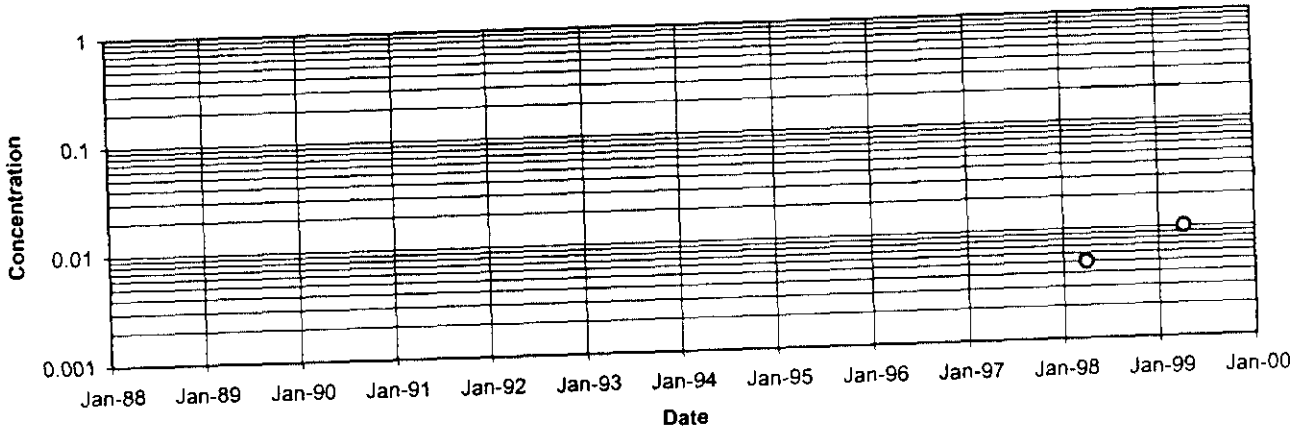
Thallium (mg/L)

AGQS Δ Concentration O NonDetect

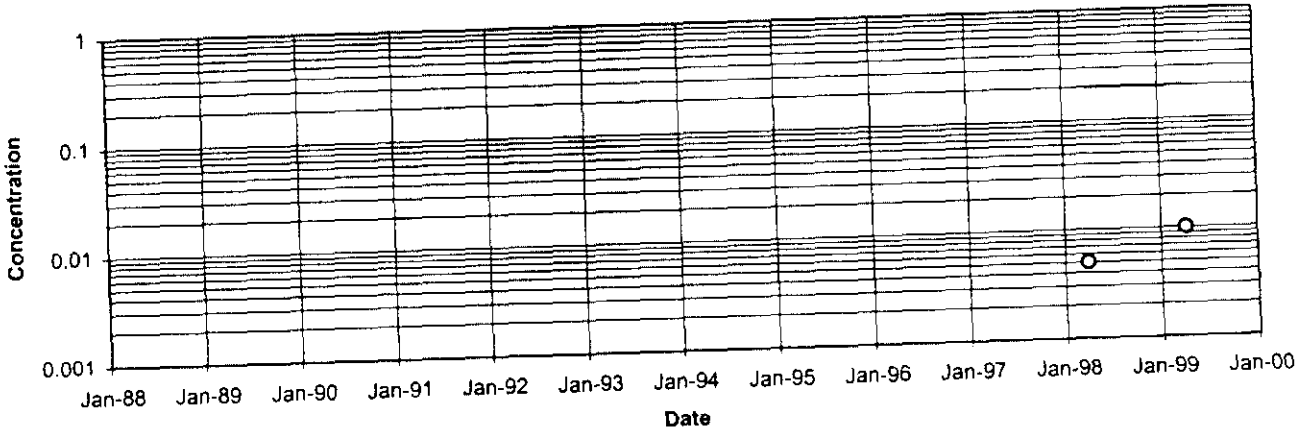
SG1



SG3



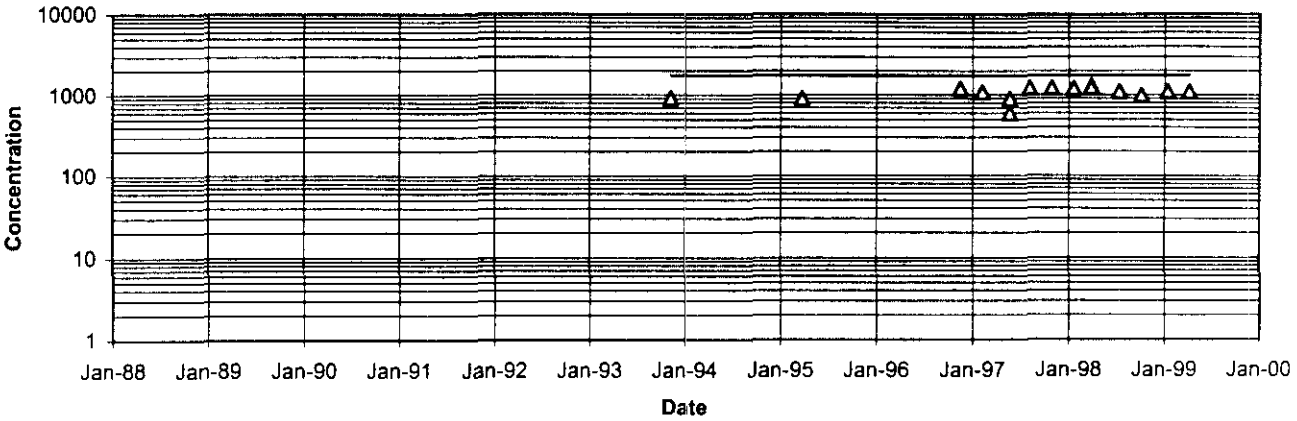
SG4



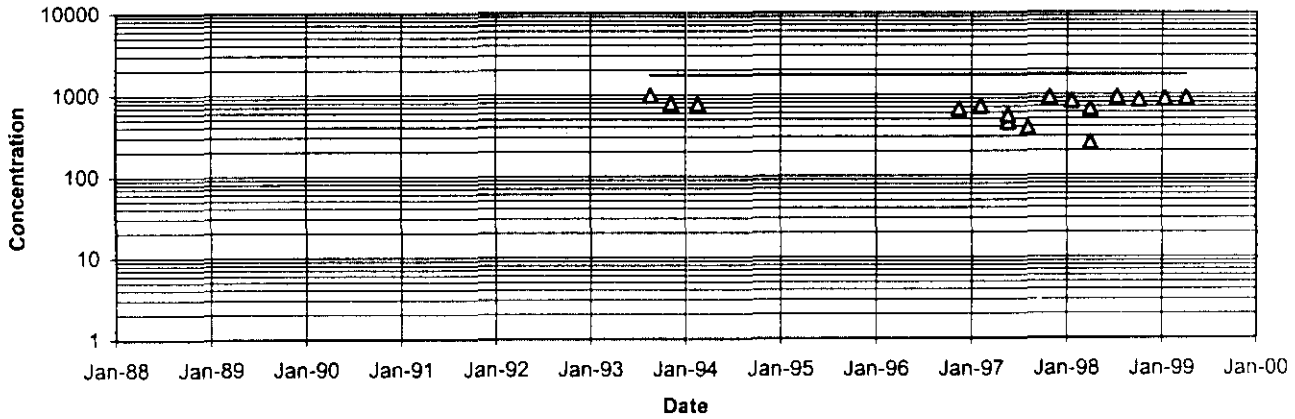
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

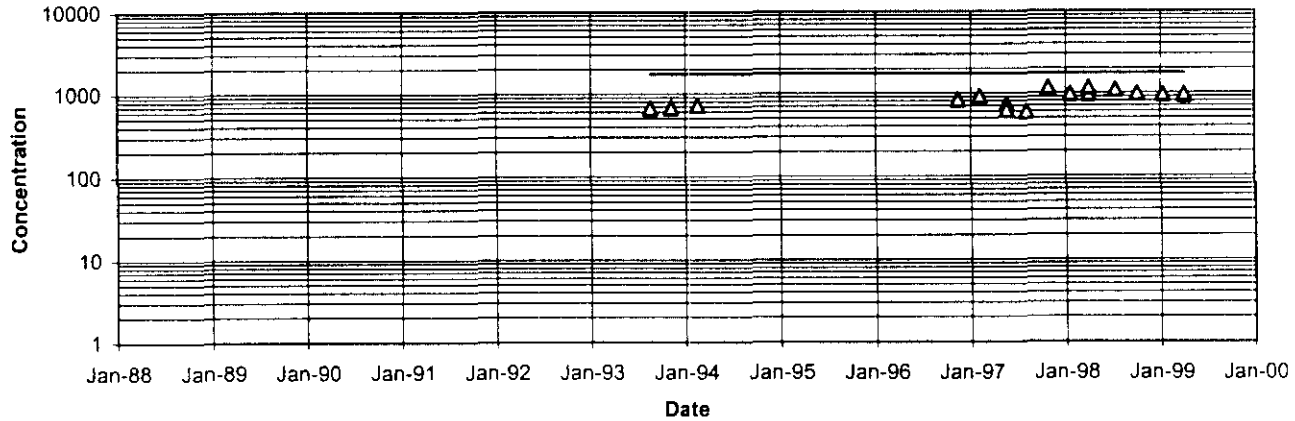
B15R



G109



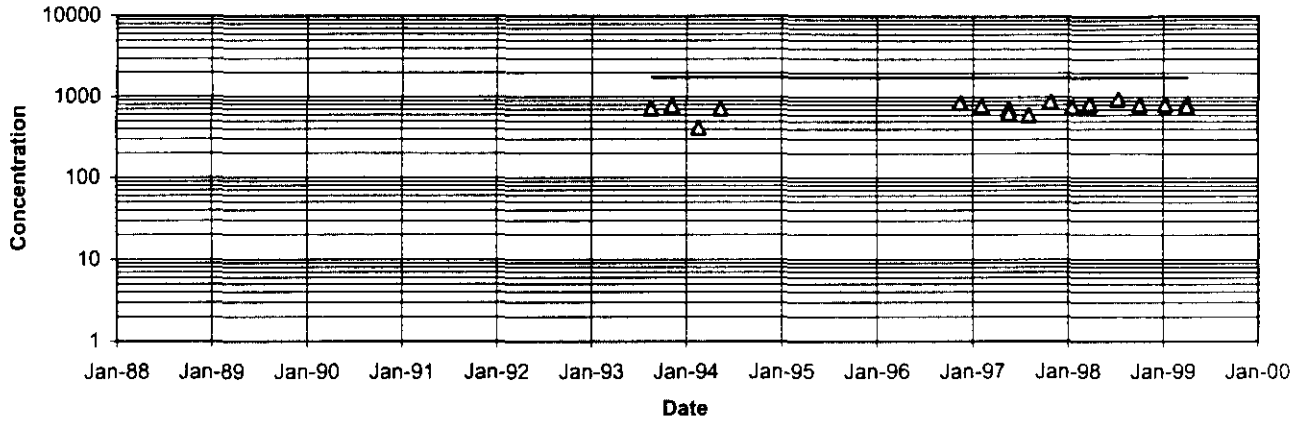
G109A



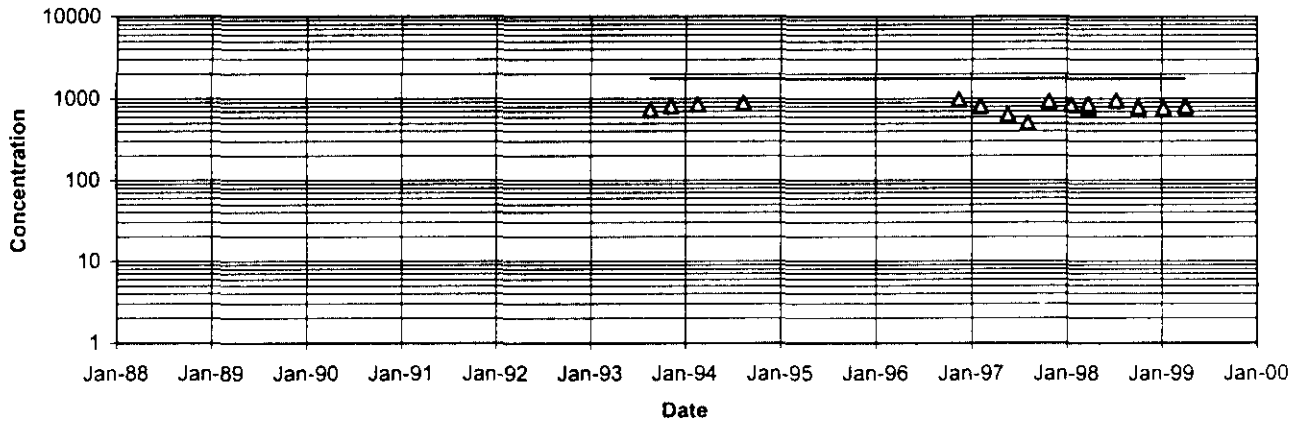
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

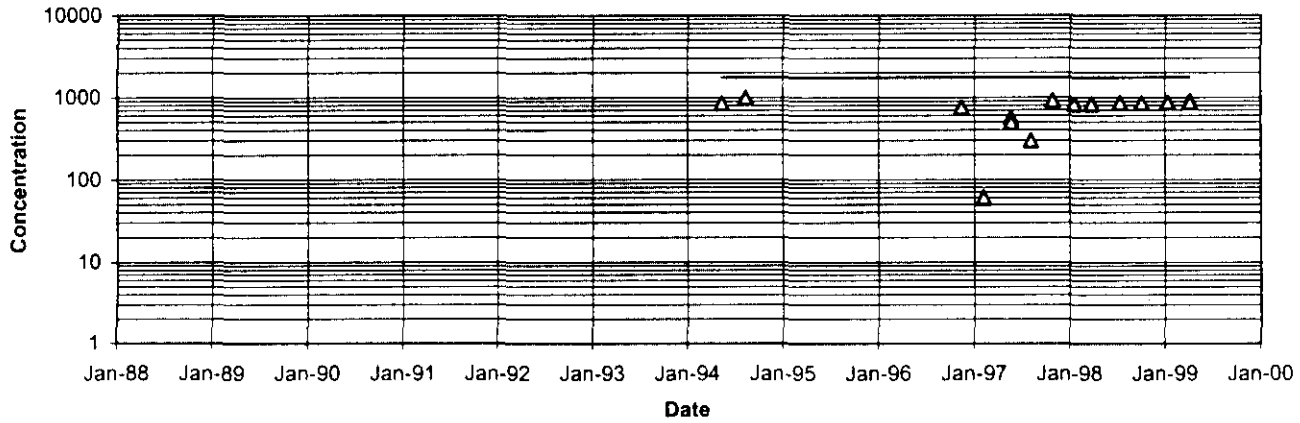
G113



G113A



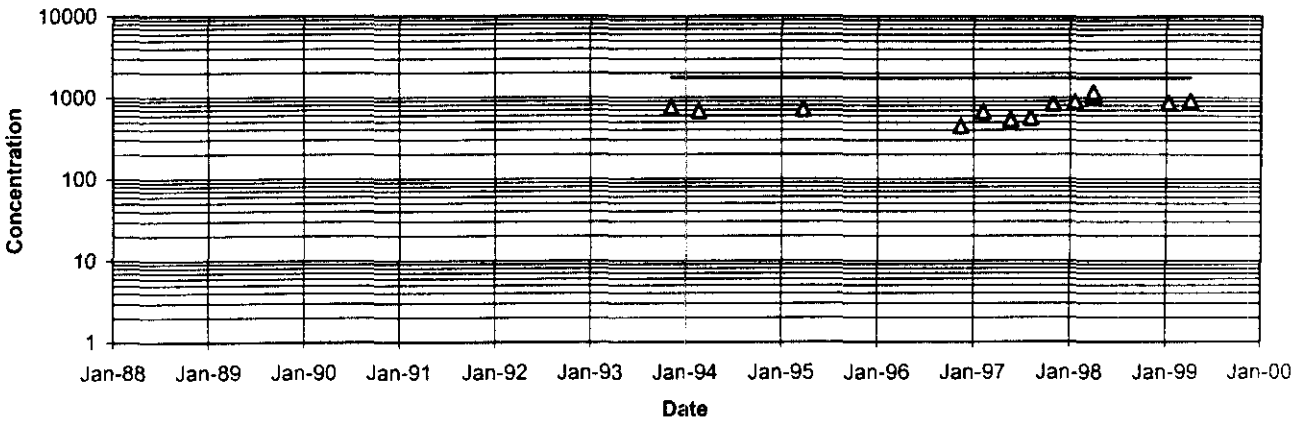
G114



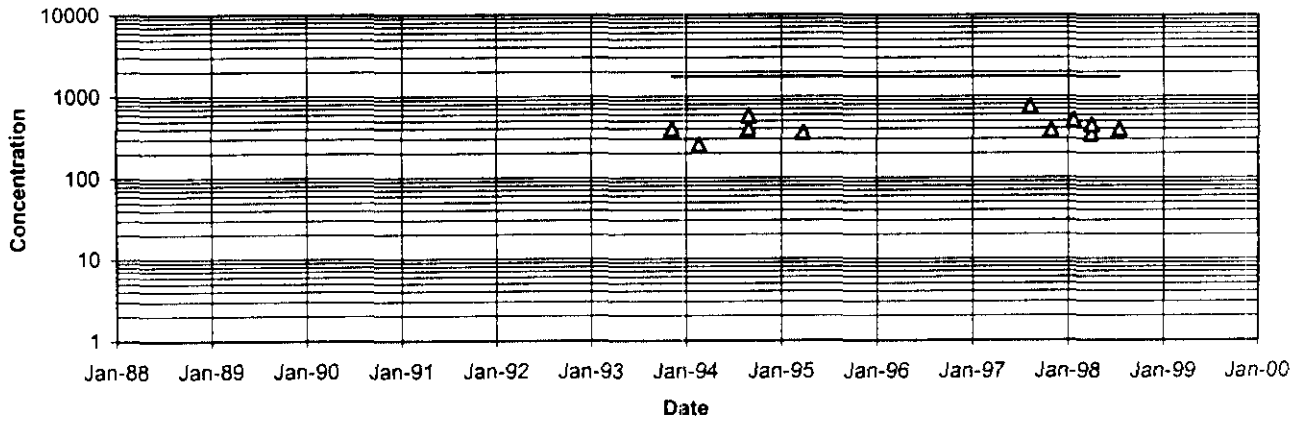
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

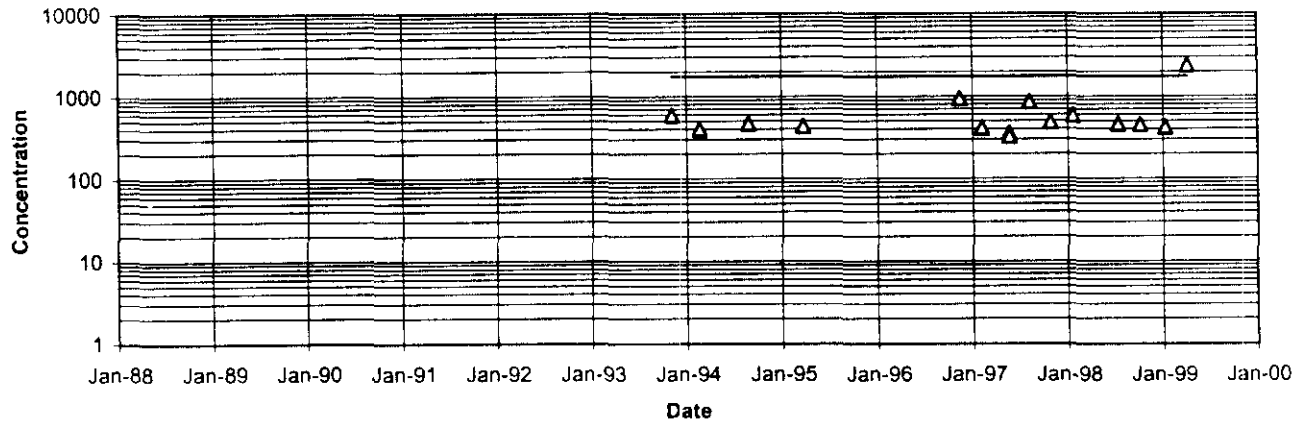
G115



G116



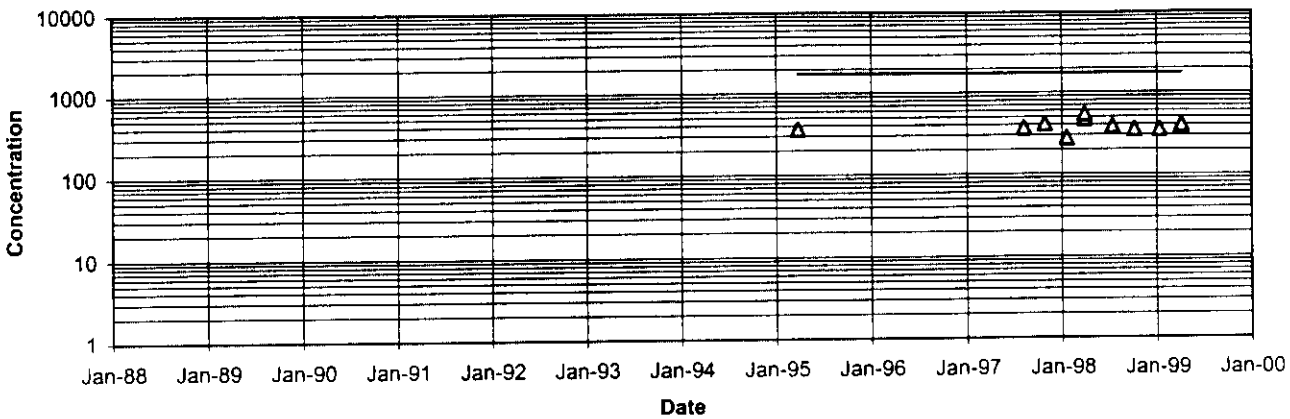
G116A



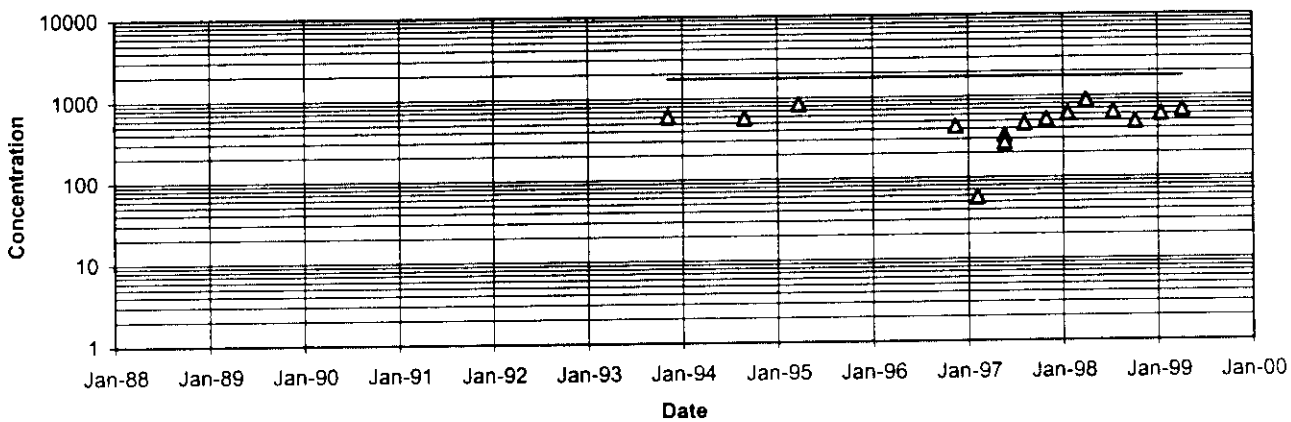
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

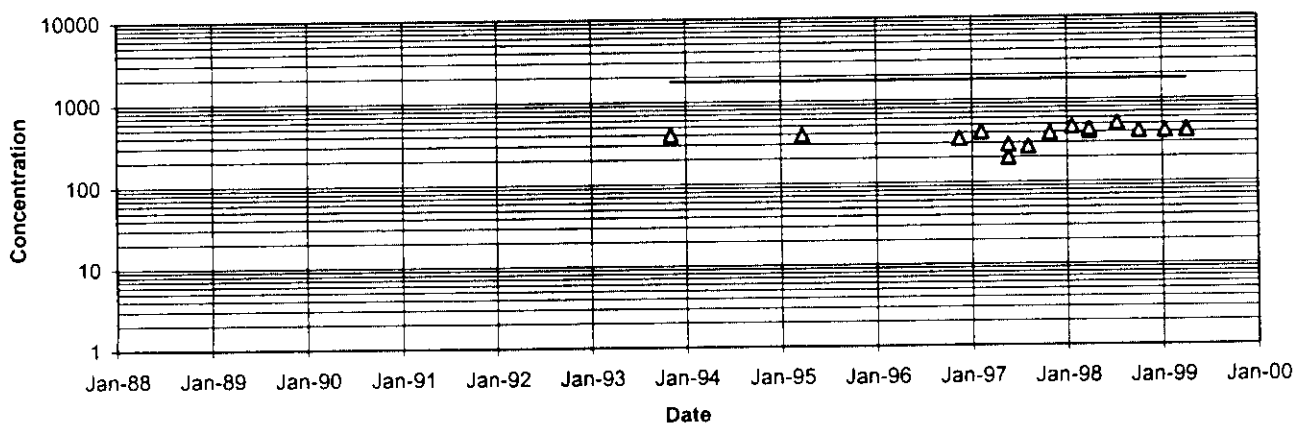
G116D



G117



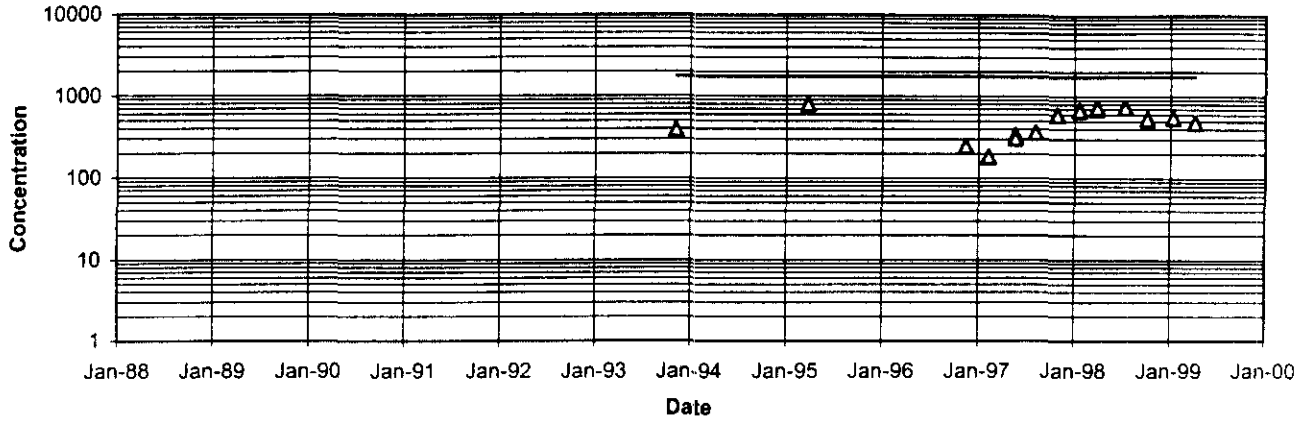
G118A



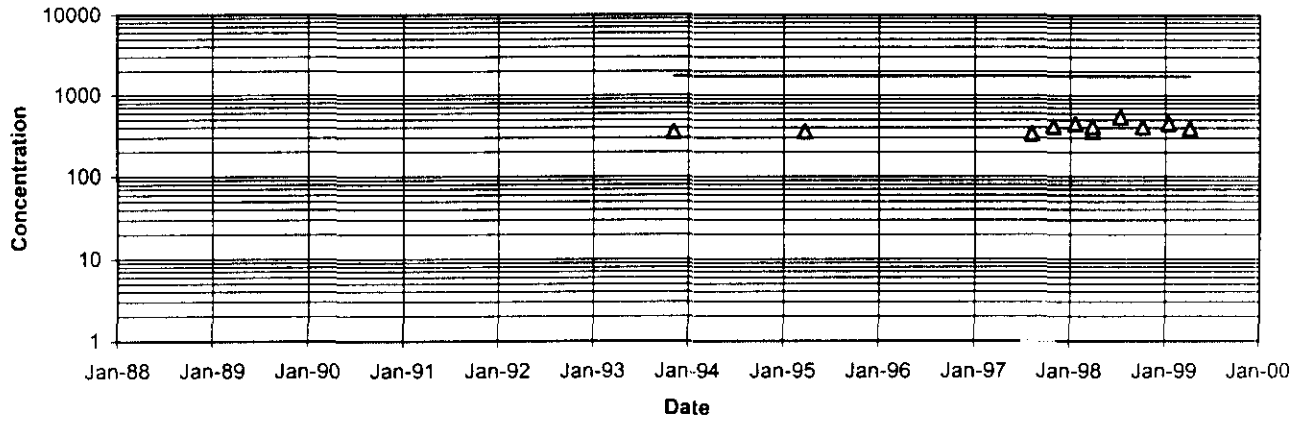
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

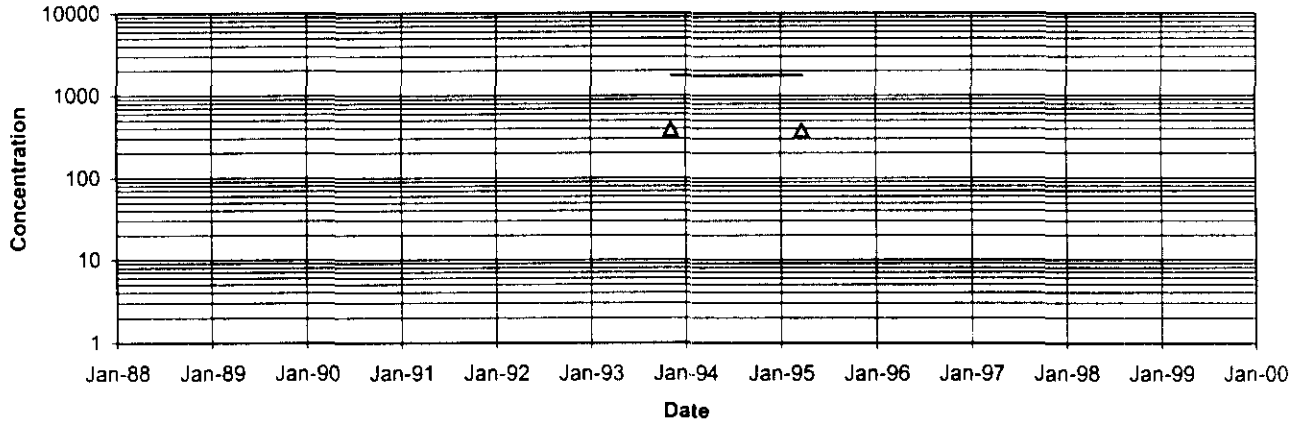
G118R



G119



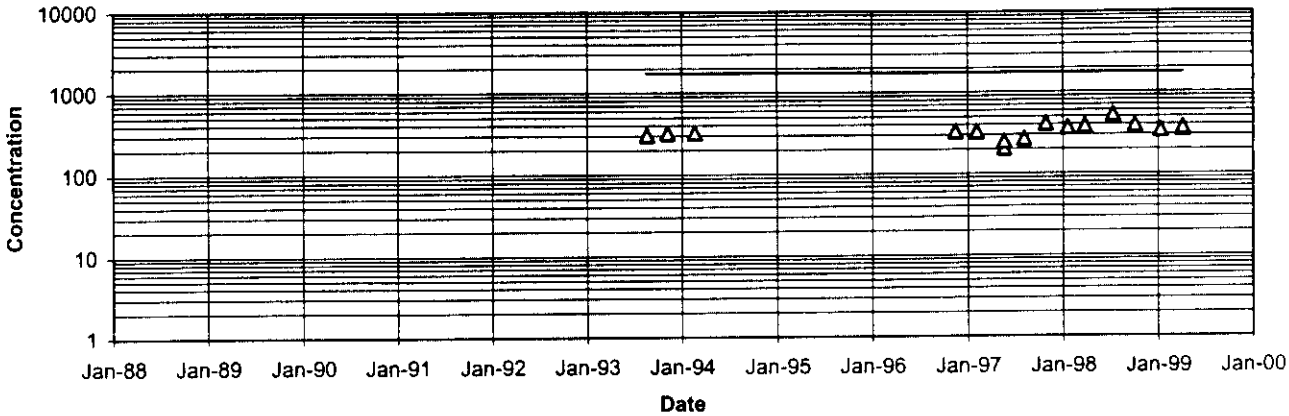
G119A



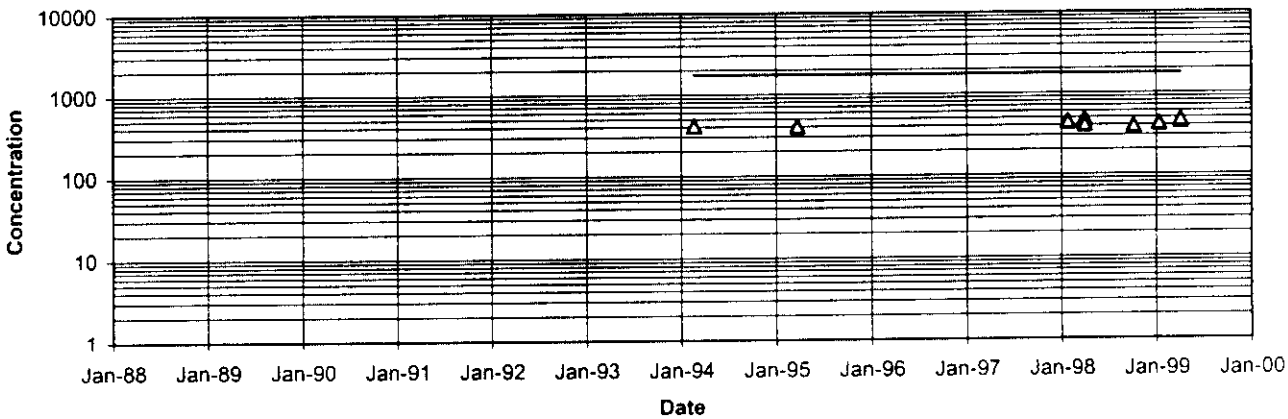
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

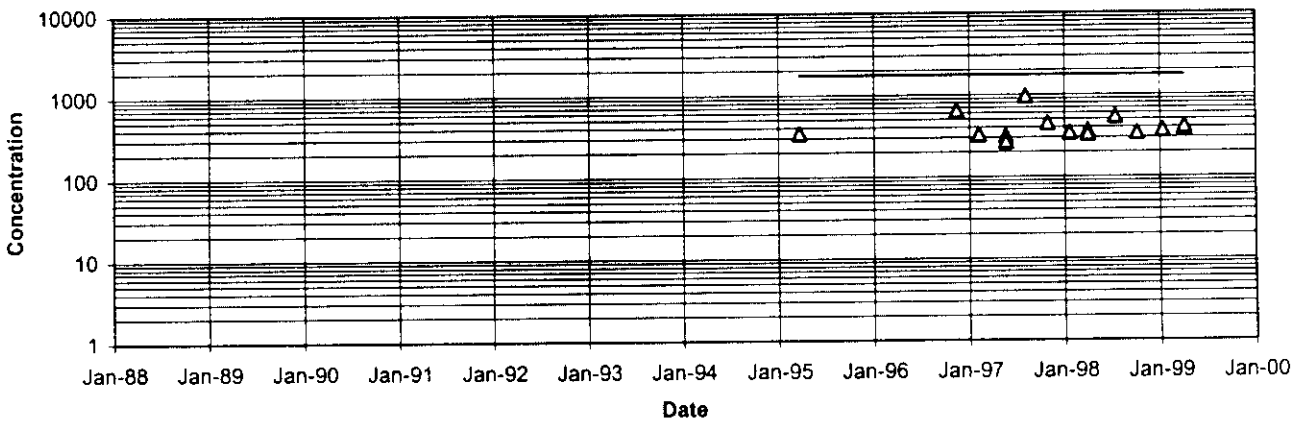
G120B



G130



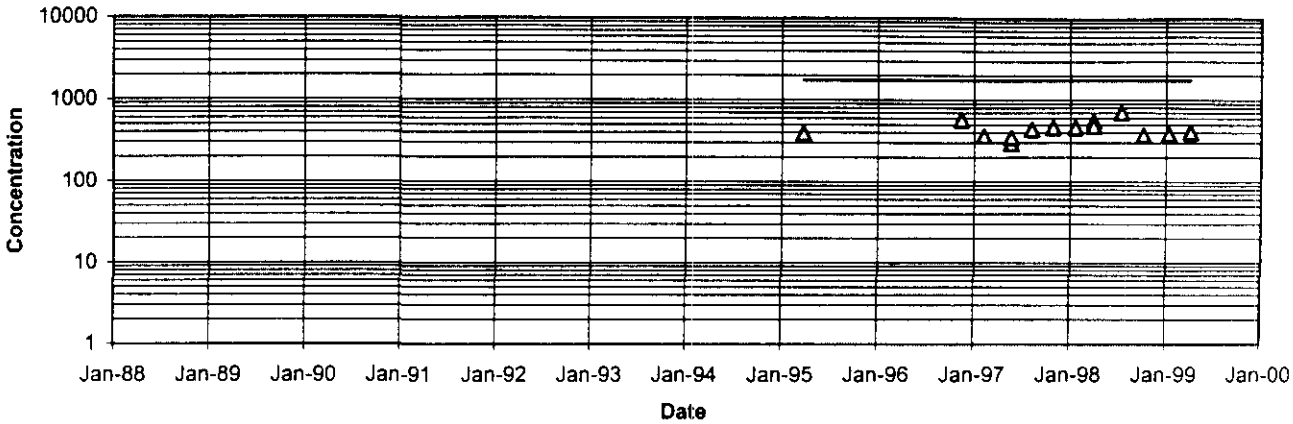
G132



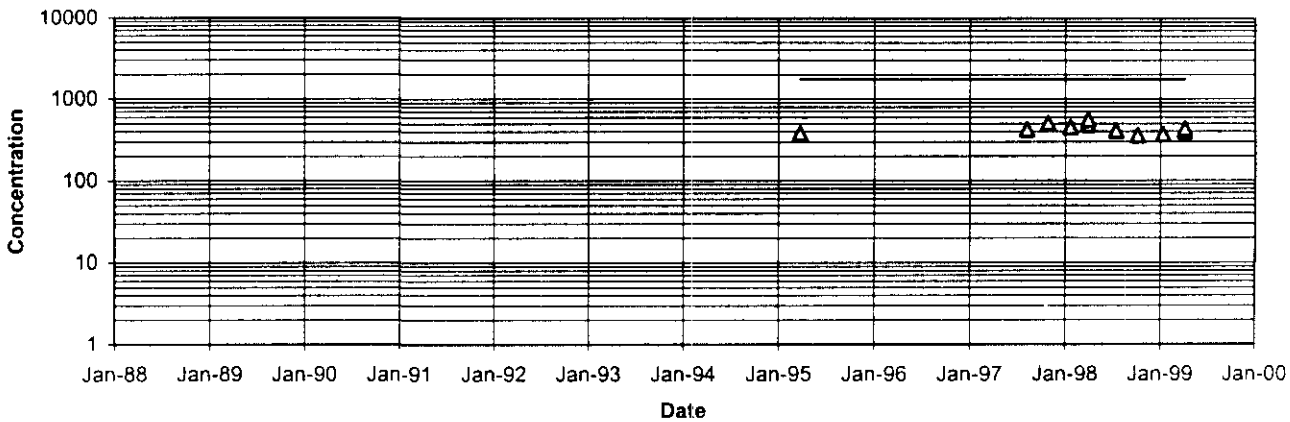
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

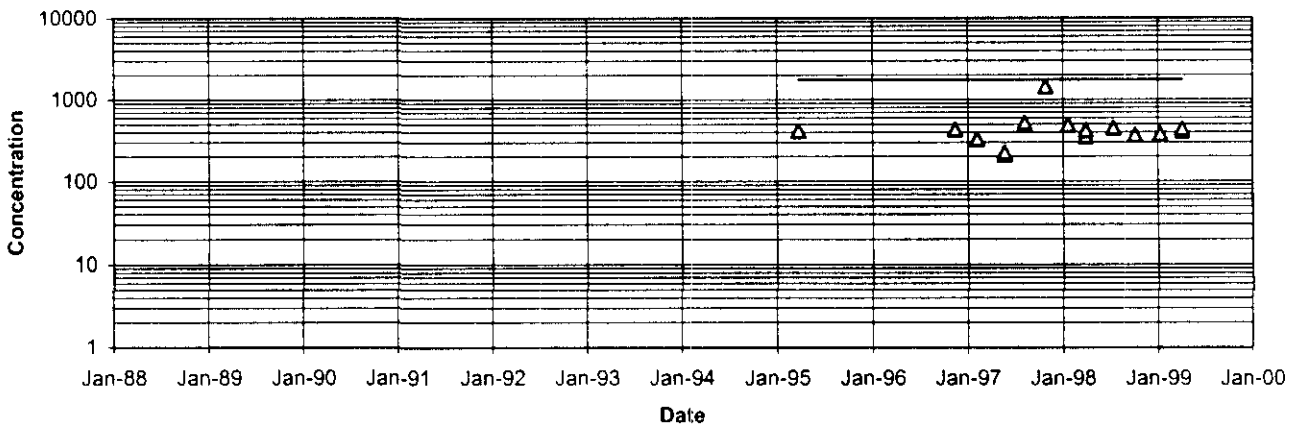
G33D



G33S



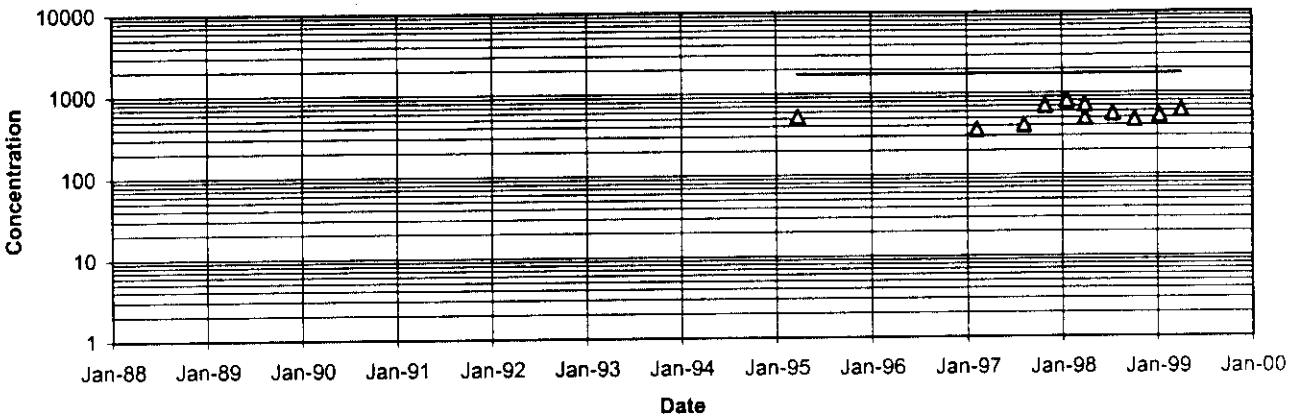
G34D



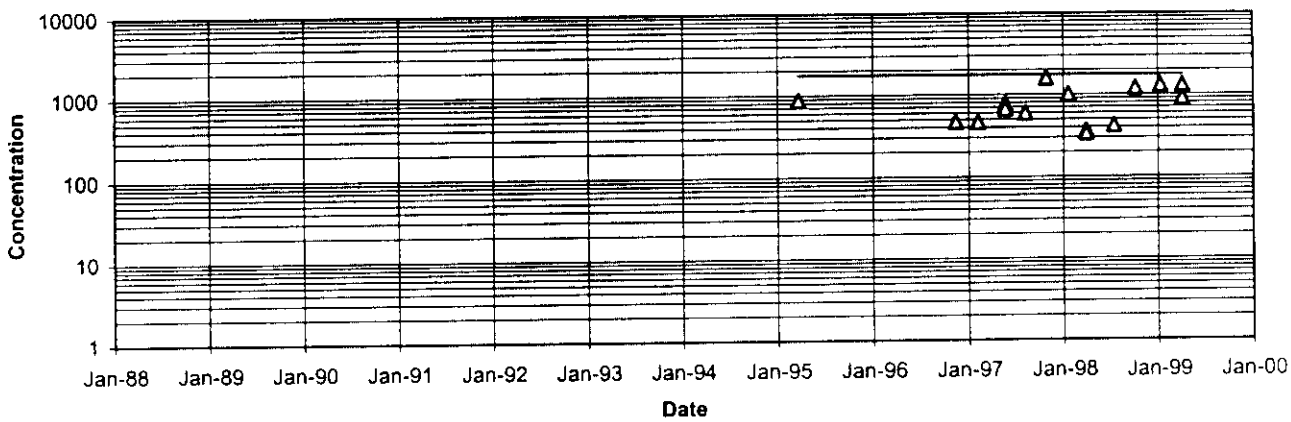
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration ○ NonDetect

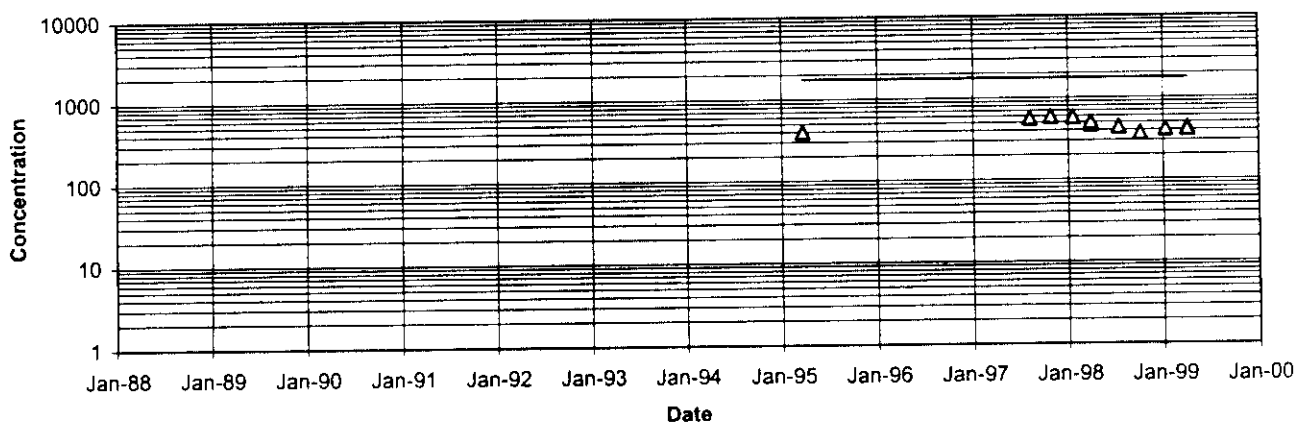
G34S



G35D



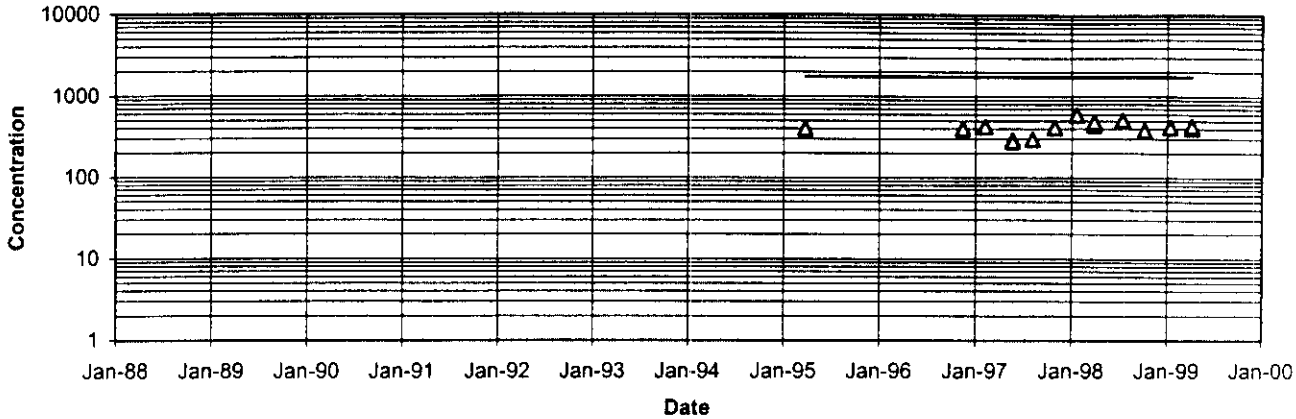
G35S



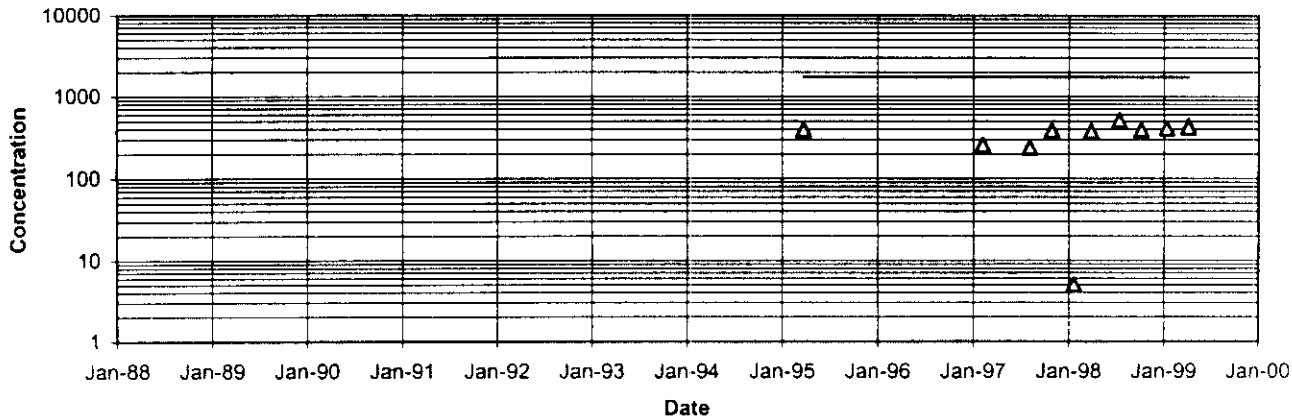
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

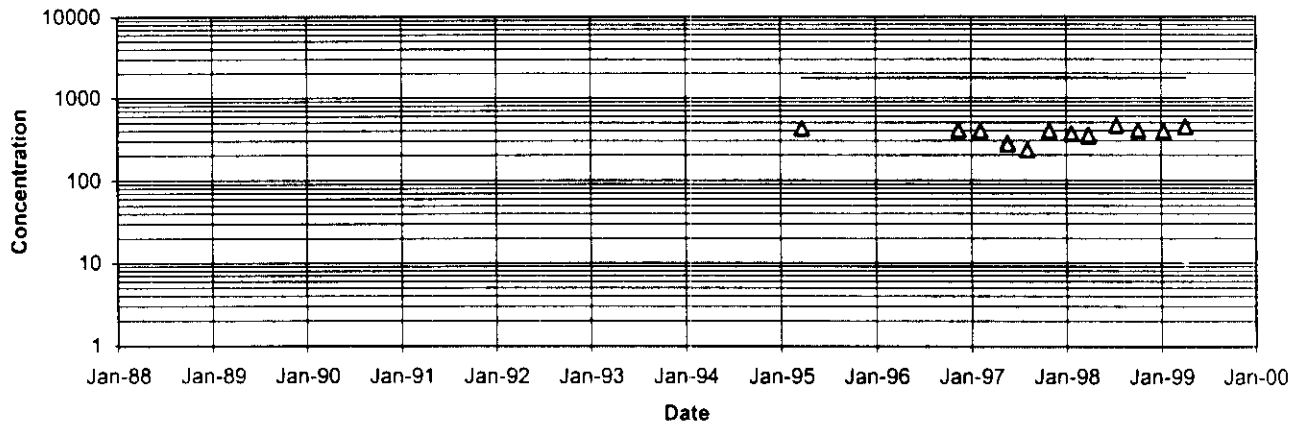
G36



G37D



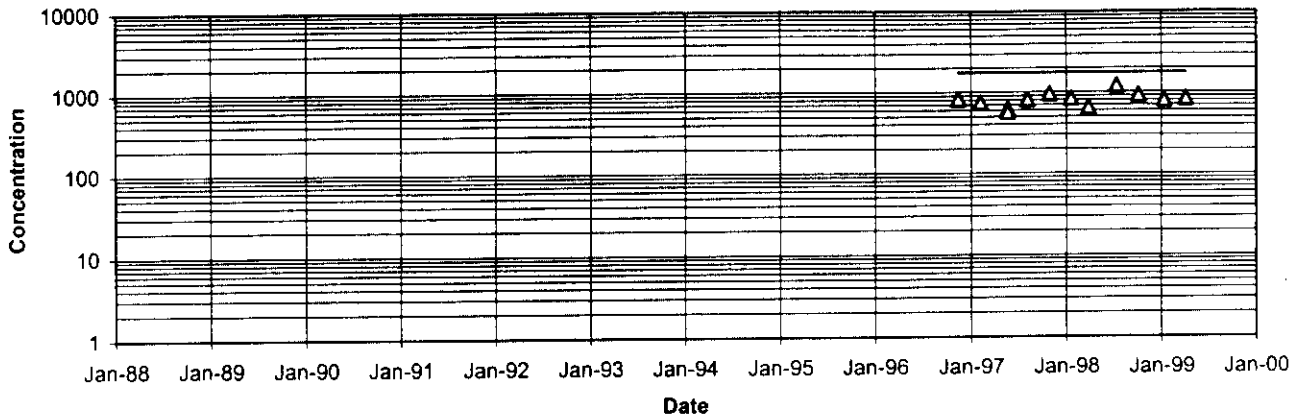
G37S



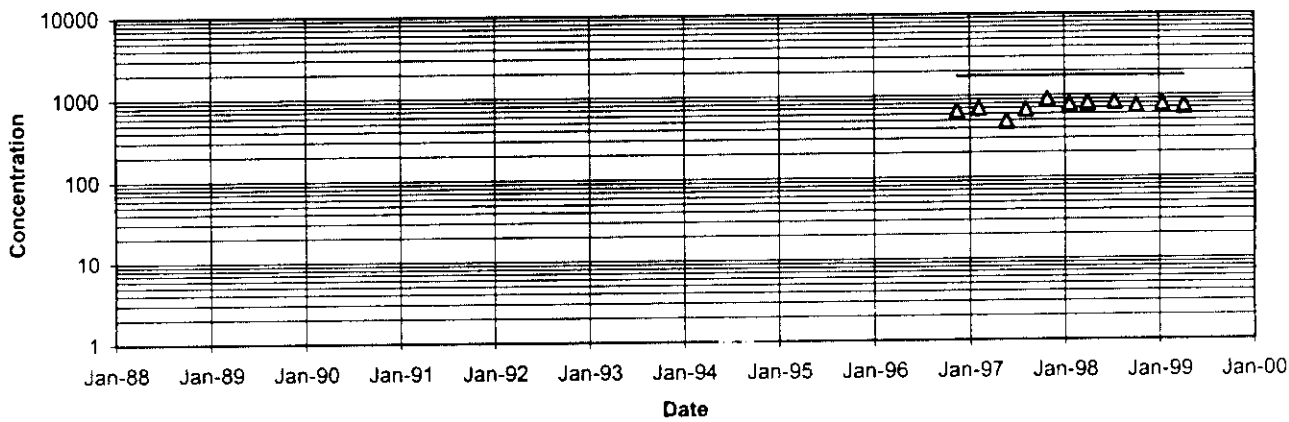
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

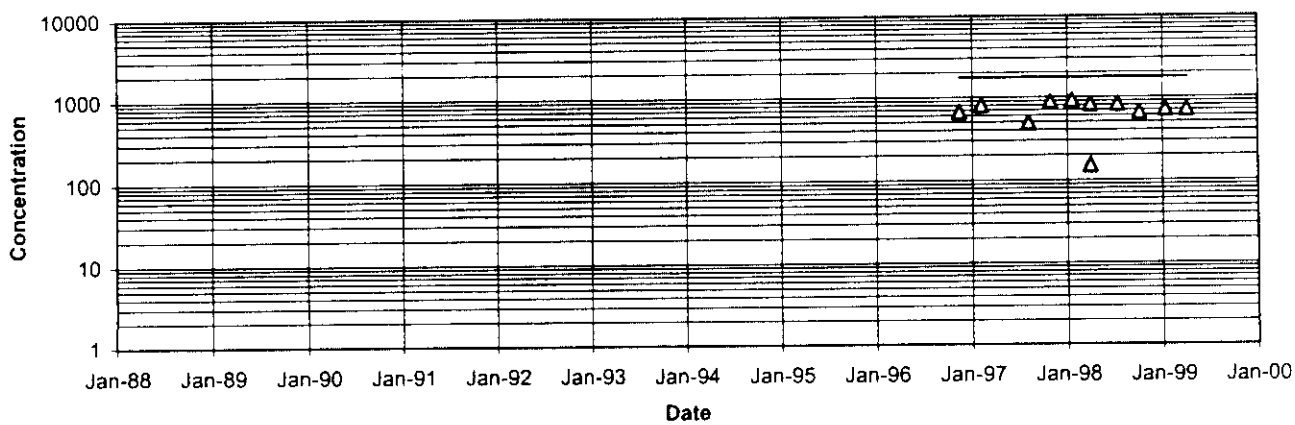
G38



G39



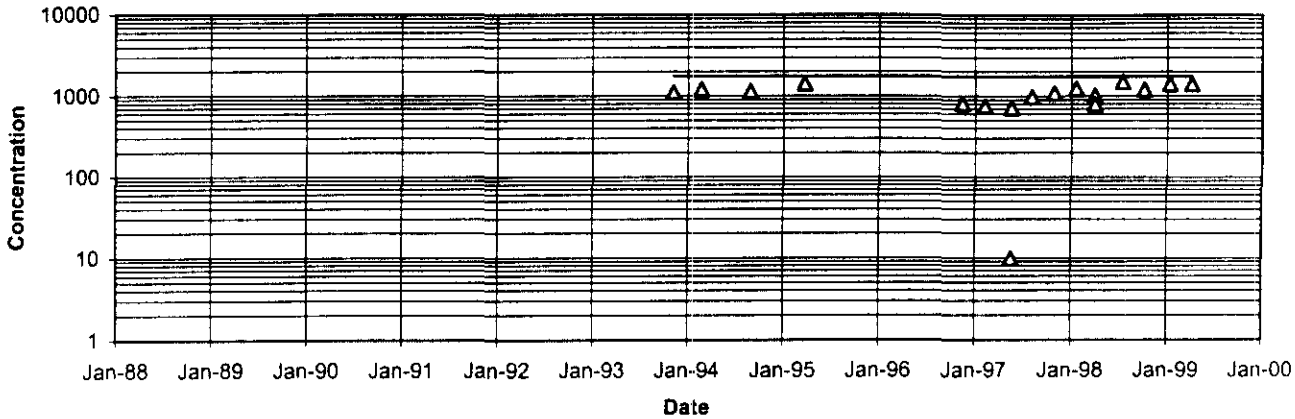
G40



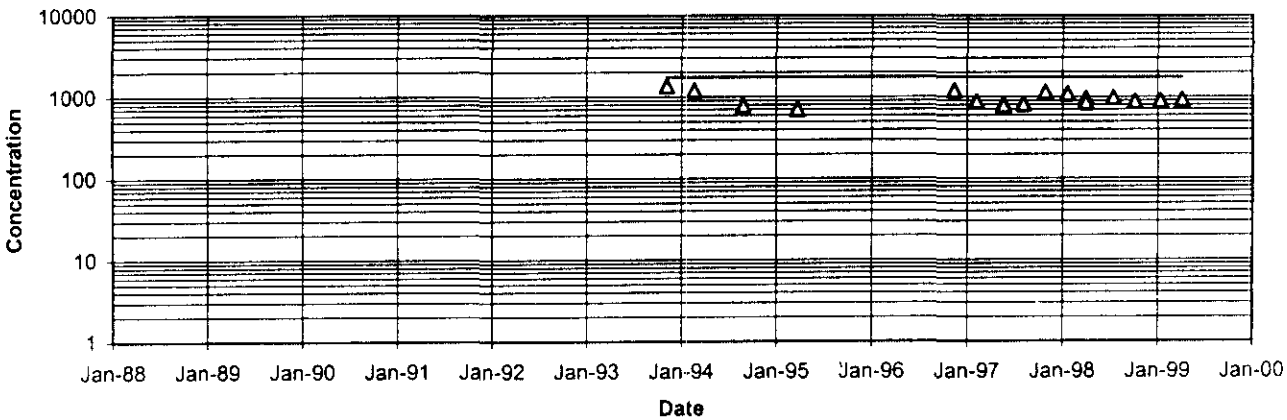
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

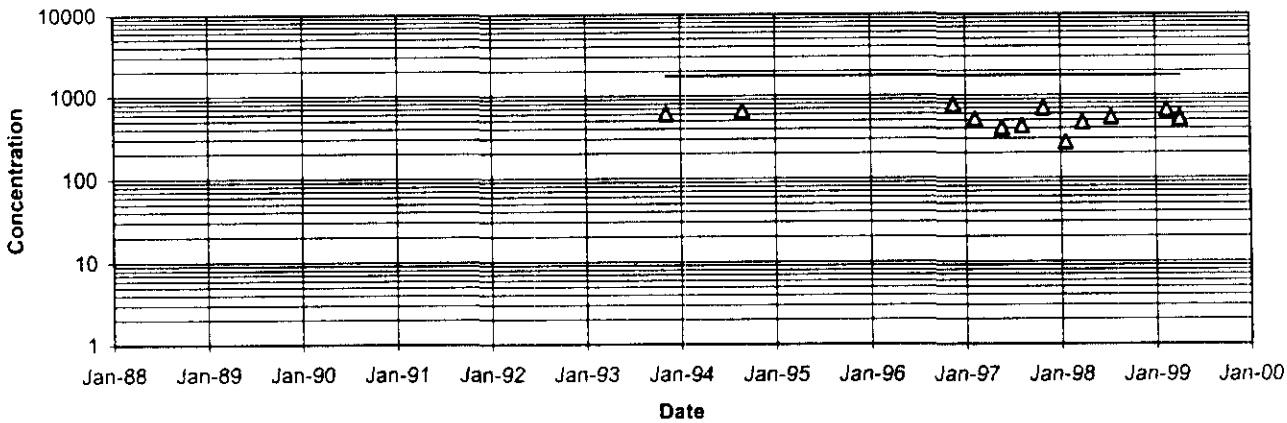
MW106



P1



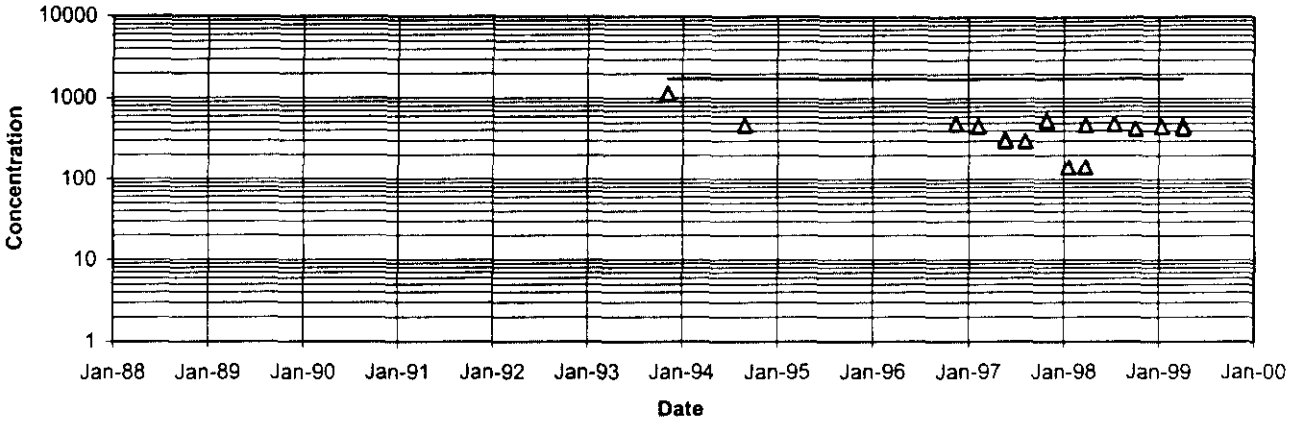
P3R



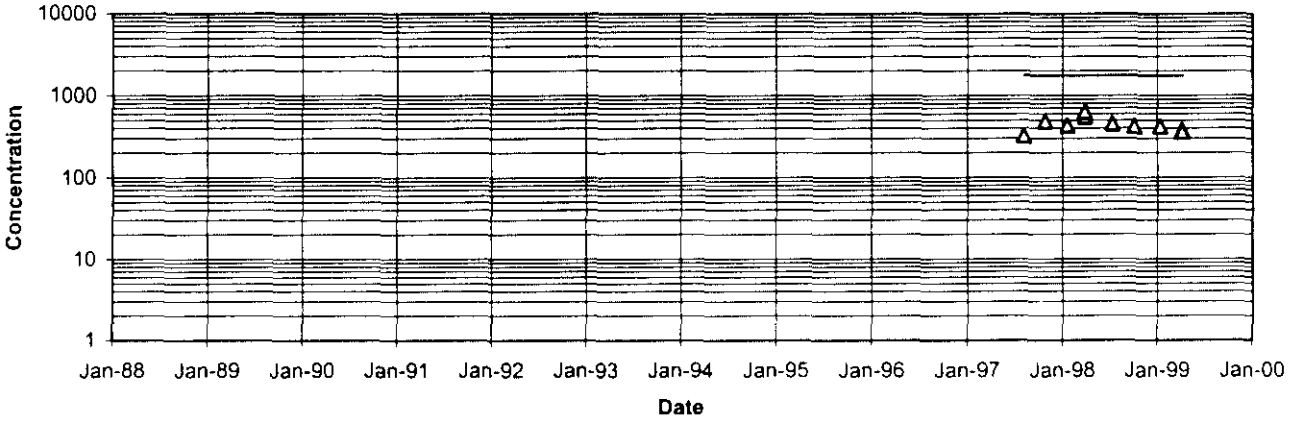
Total Dissolved Solids (TDS) (mg/L)

AGQS Δ Concentration O NonDetect

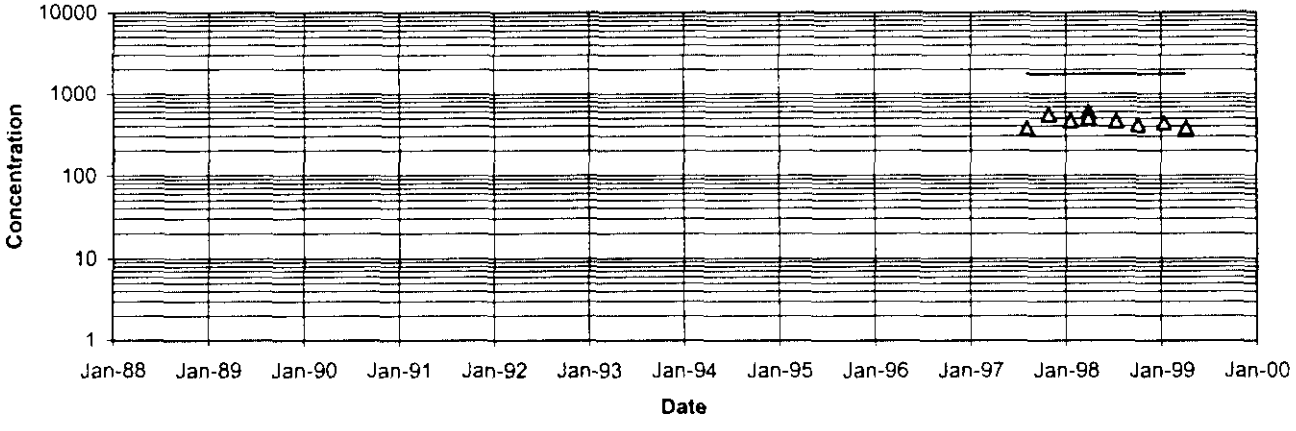
P4R



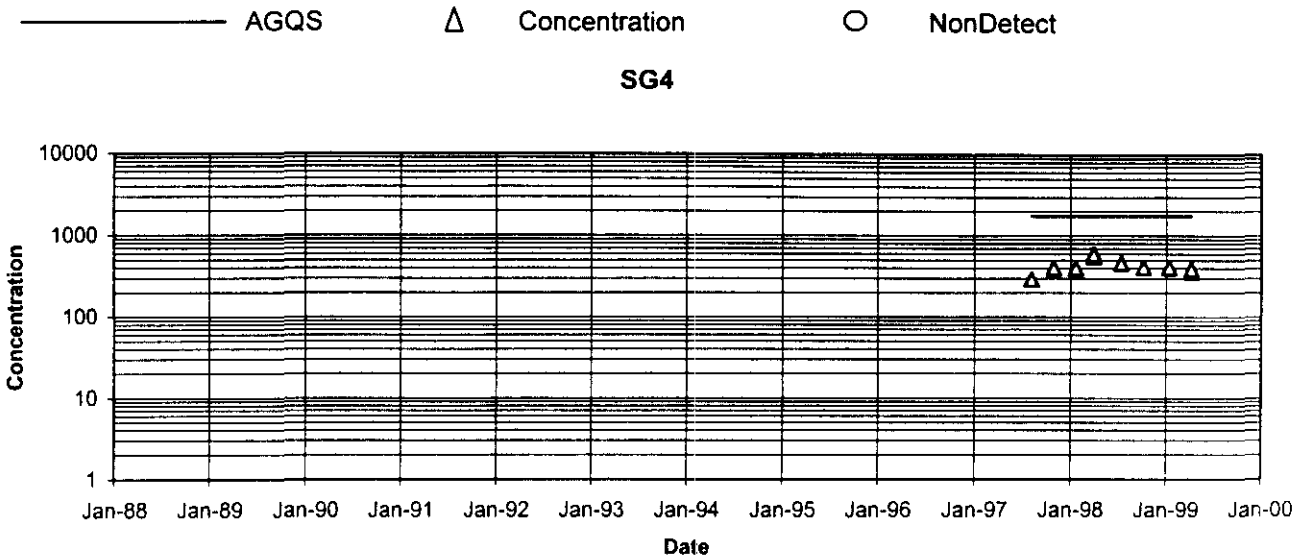
SG1



SG3



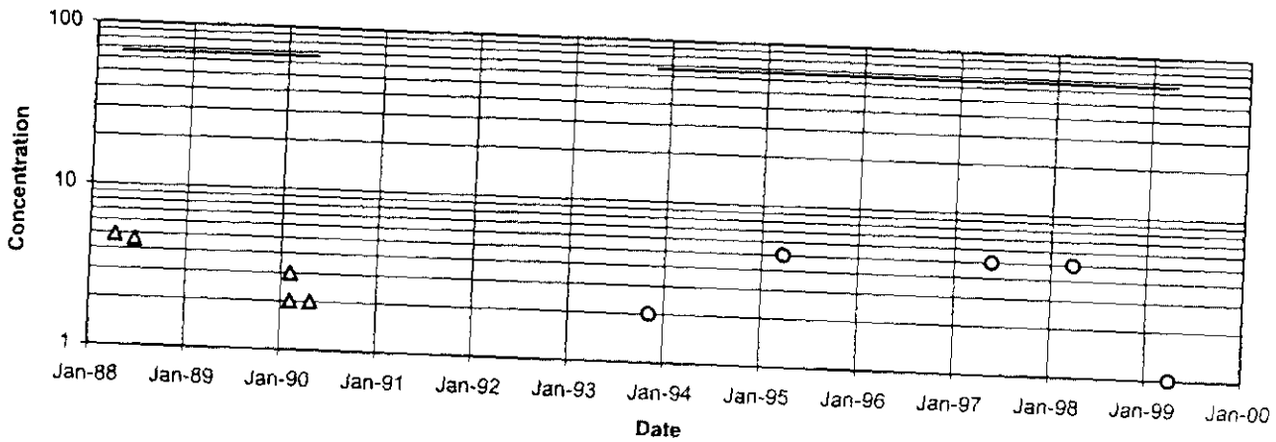
Total Dissolved Solids (TDS) (mg/L)



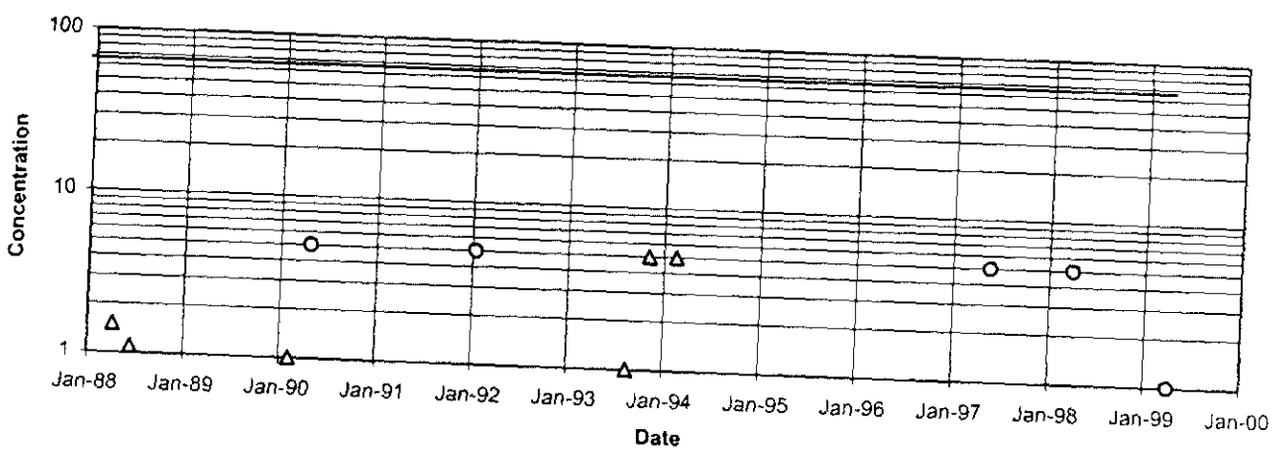
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

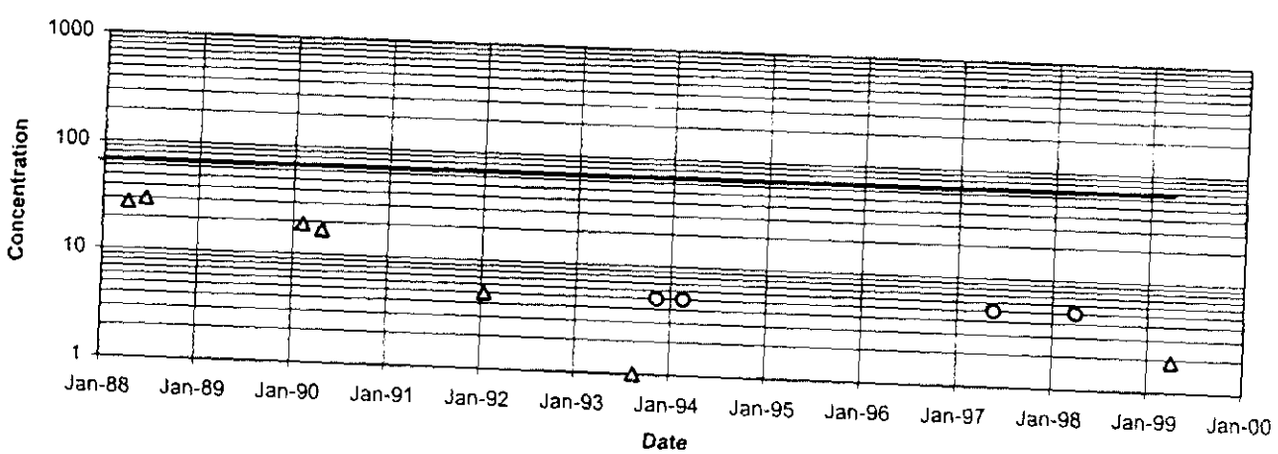
B15R



G109



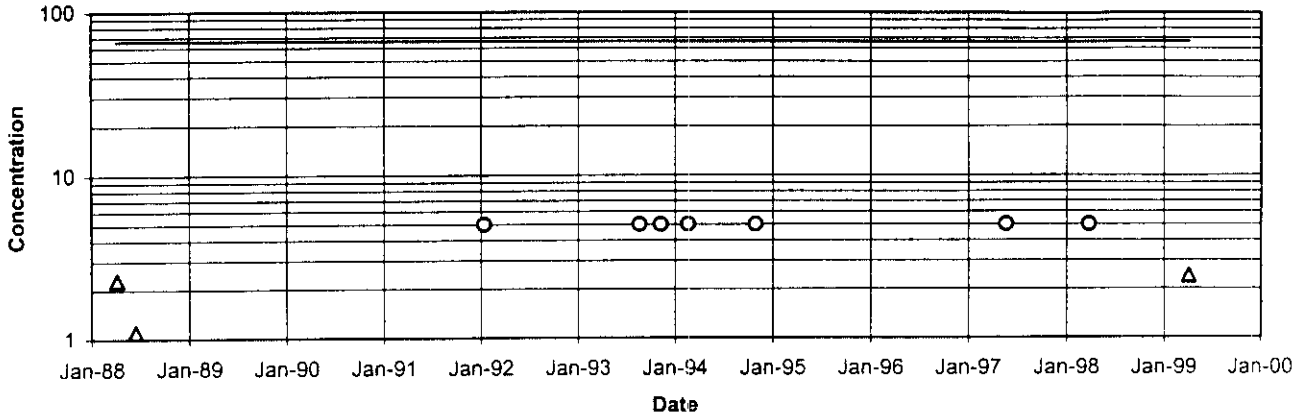
G109A



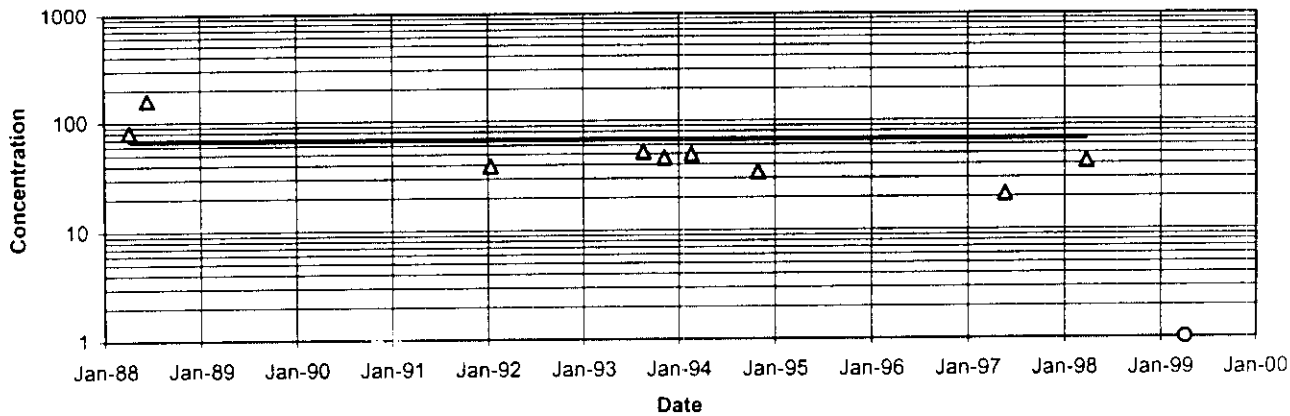
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

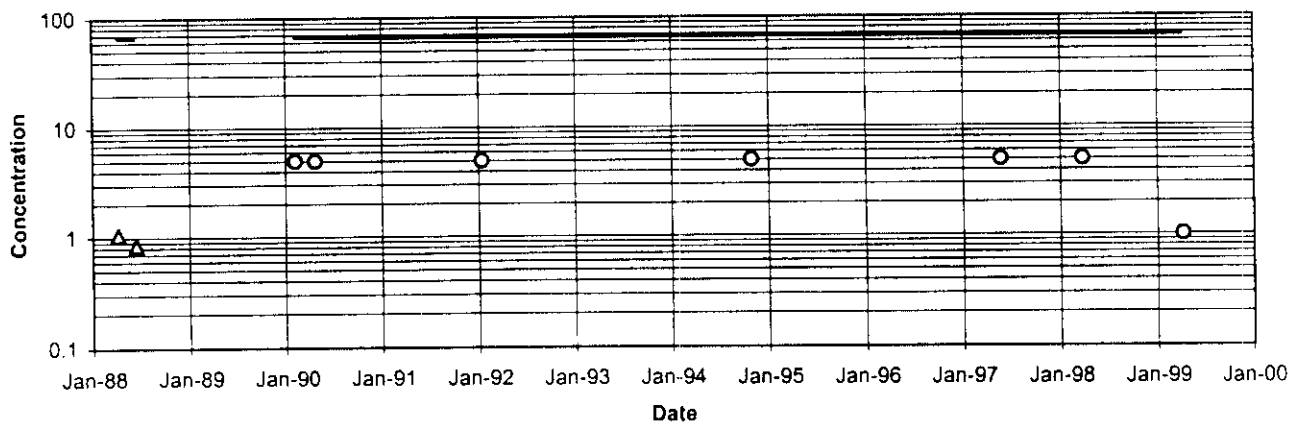
G113



G113A



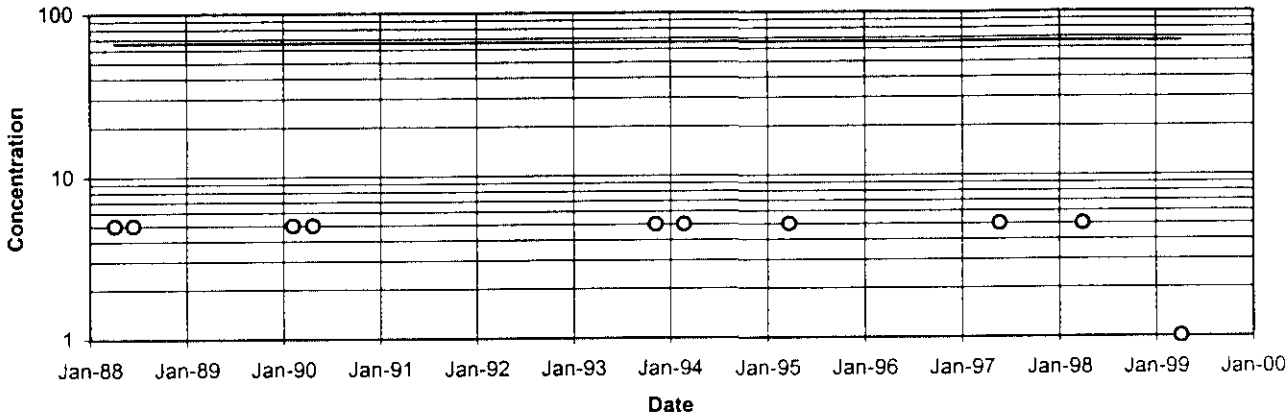
G114



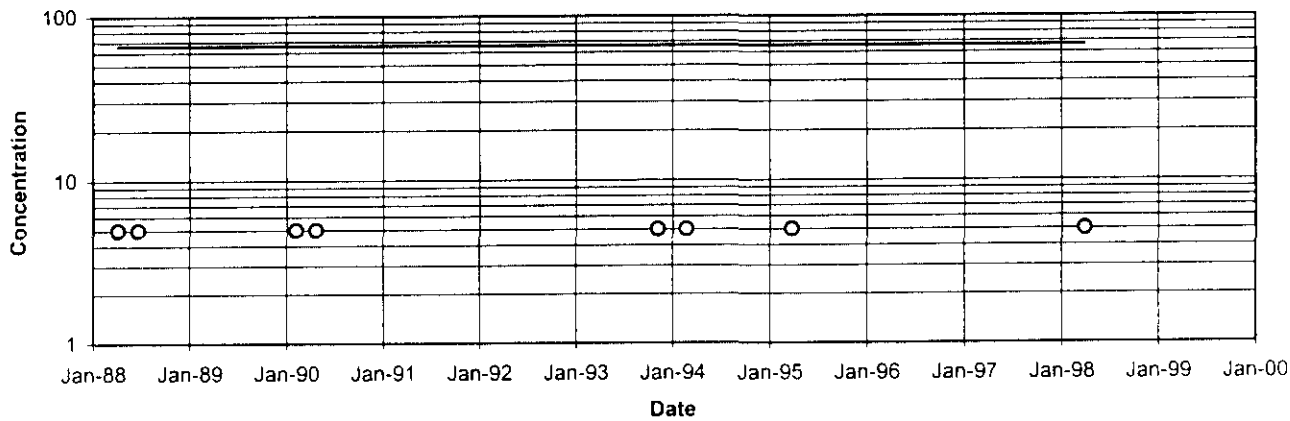
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

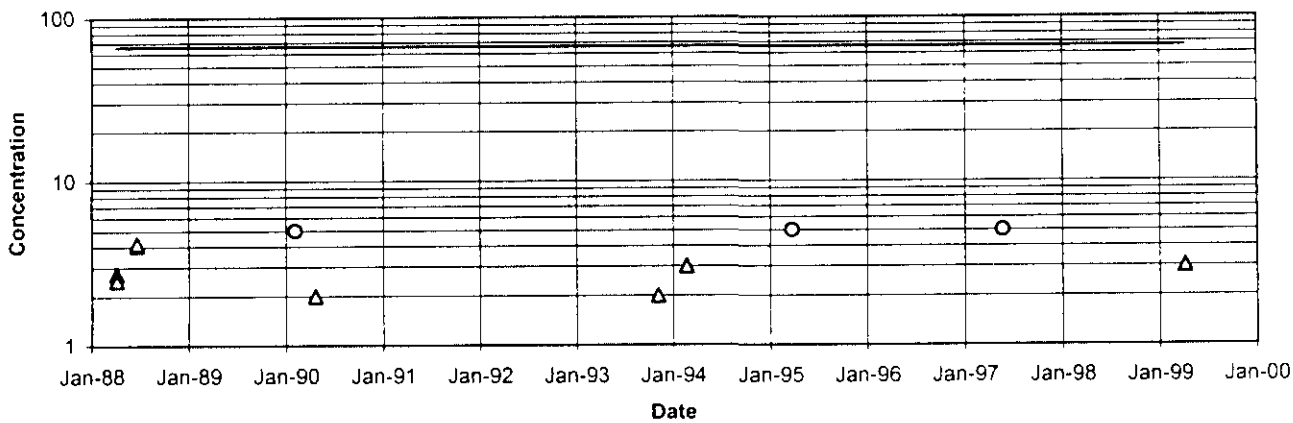
G115



G116



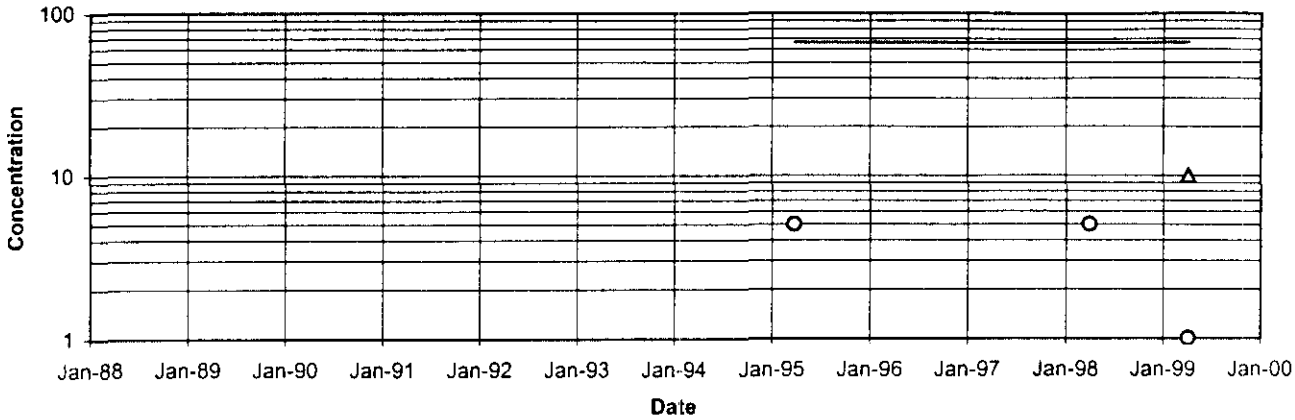
G116A



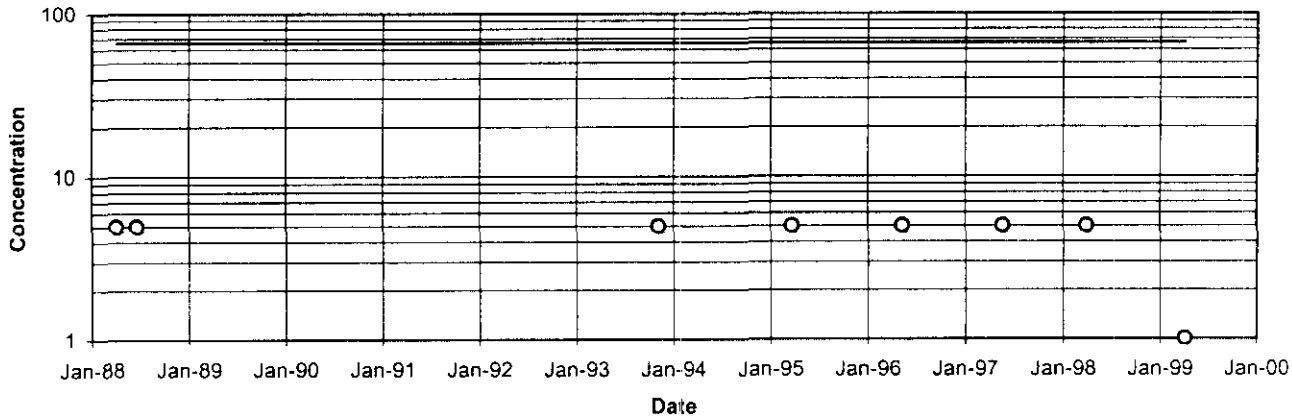
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

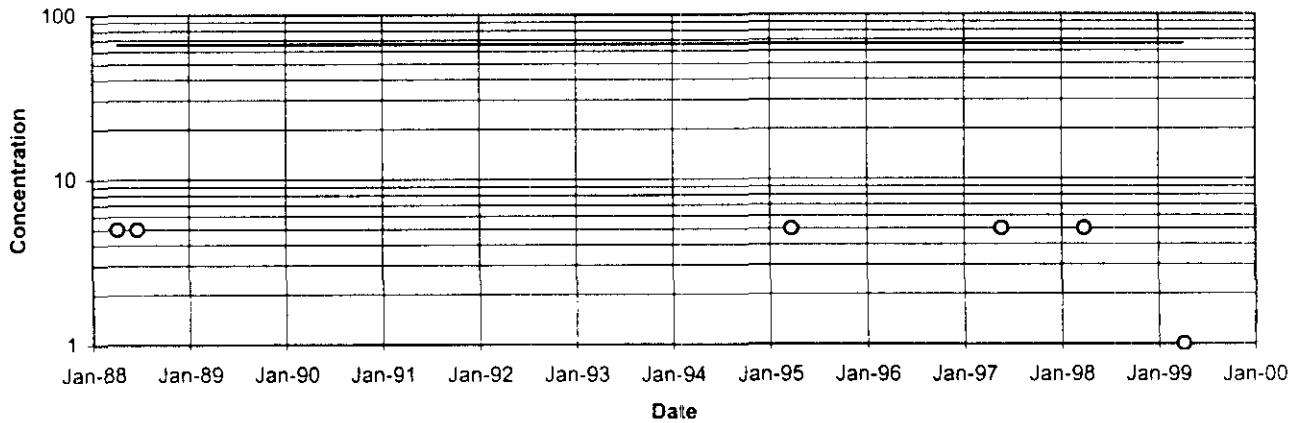
G116D



G117



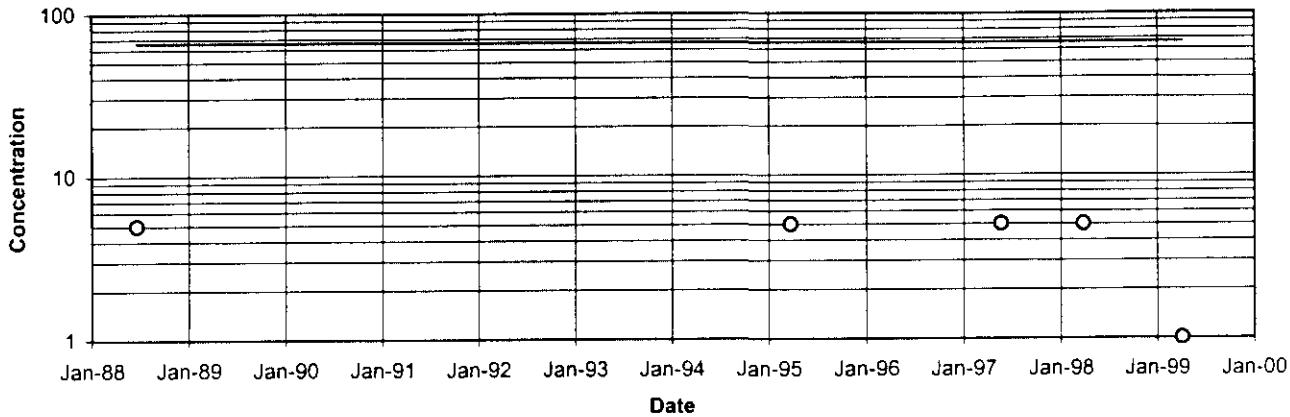
G118A



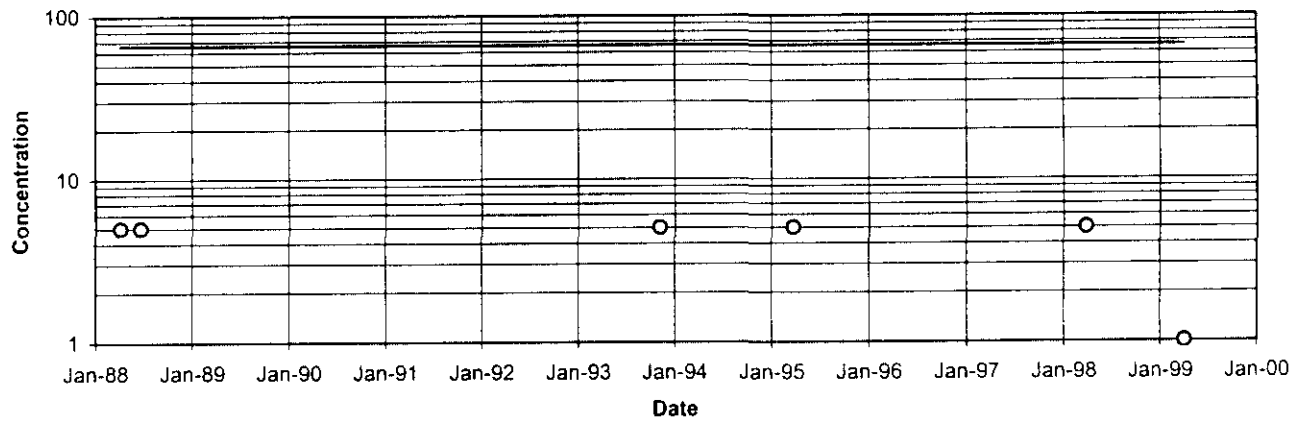
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

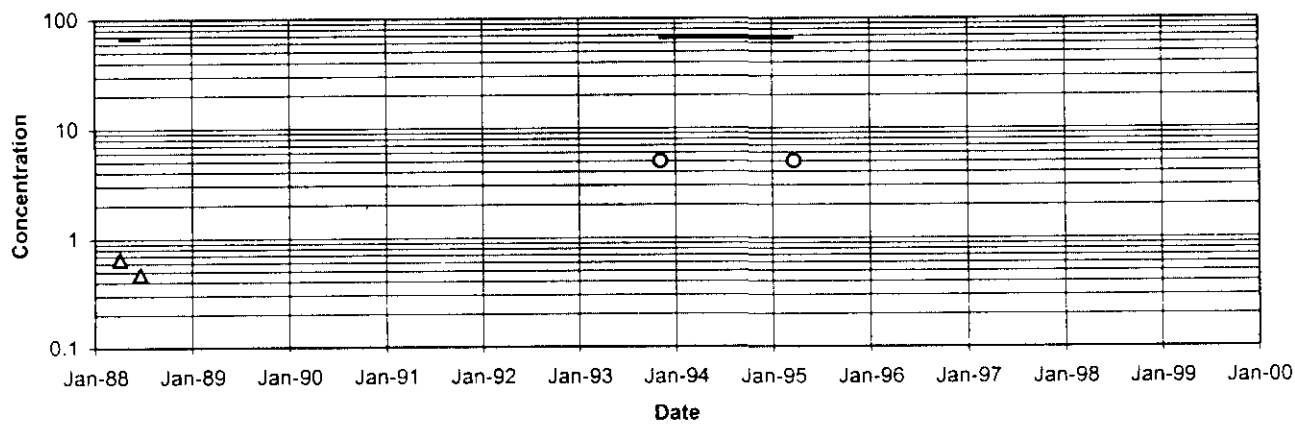
G118R



G119



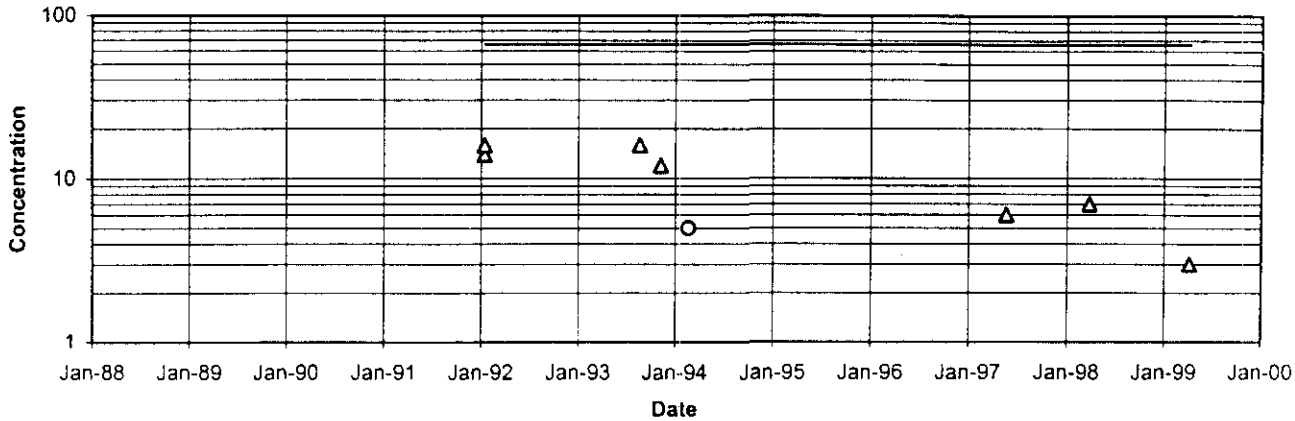
G119A



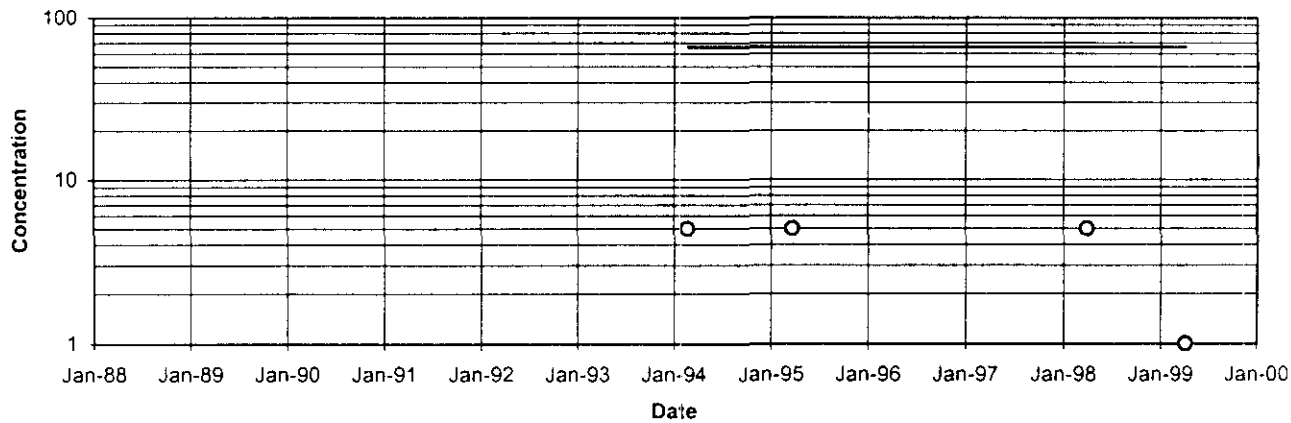
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

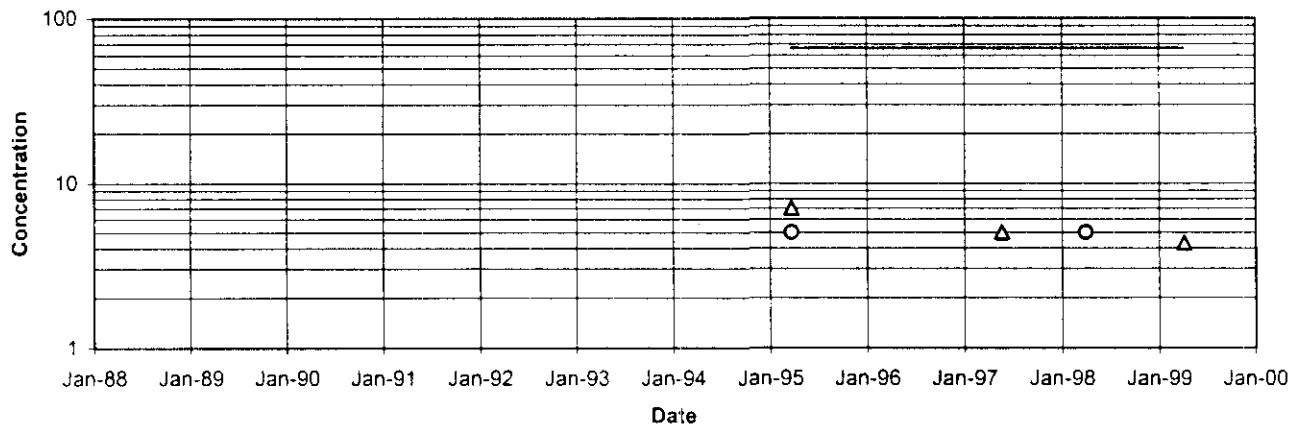
G120B



G130



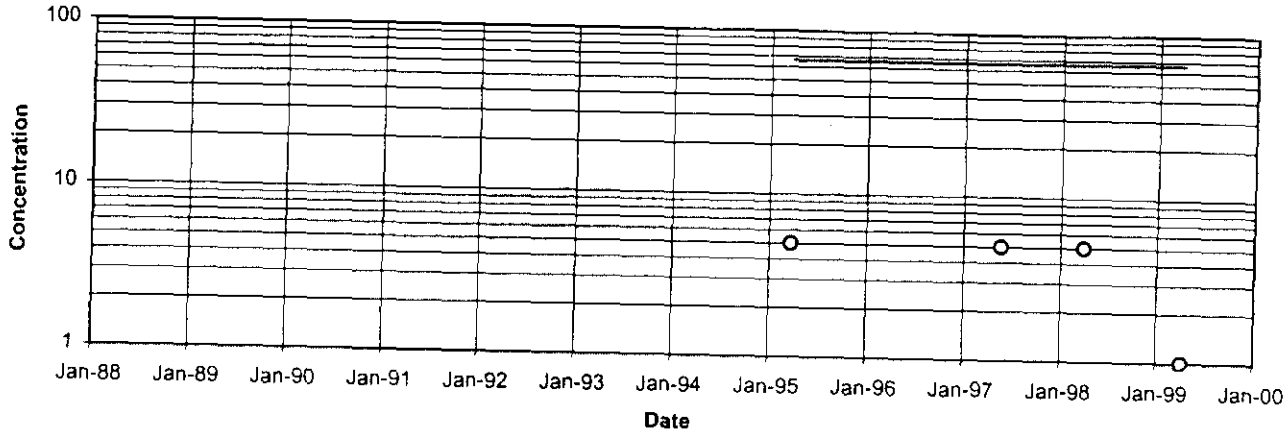
G132



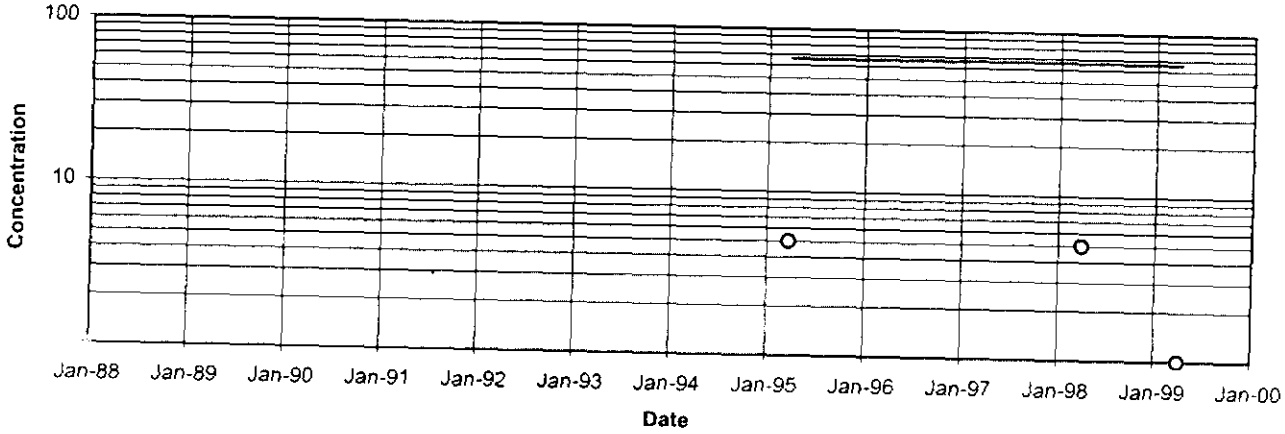
Trichloroethene (ug/L)

AGQS Δ Concentration ○ NonDetect

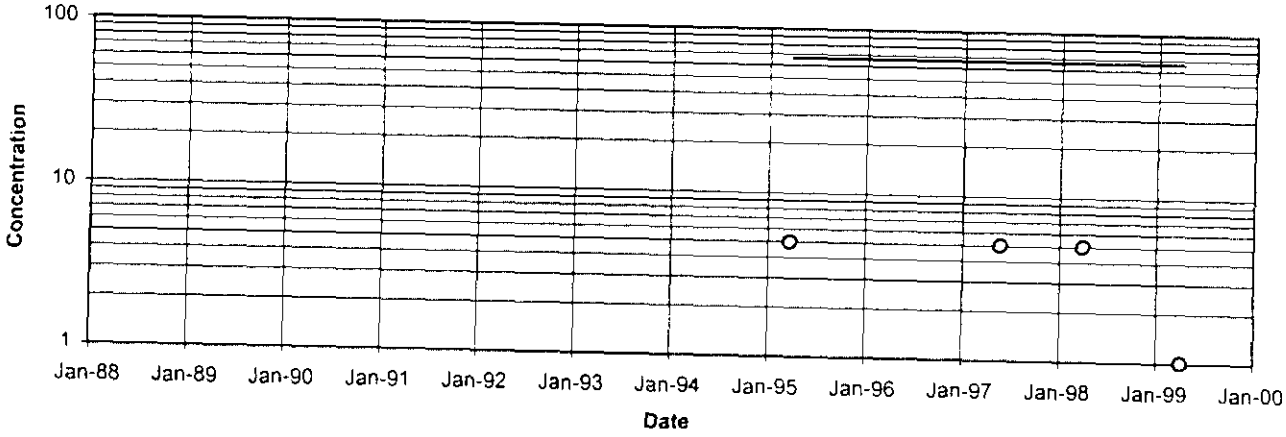
G33D



G33S



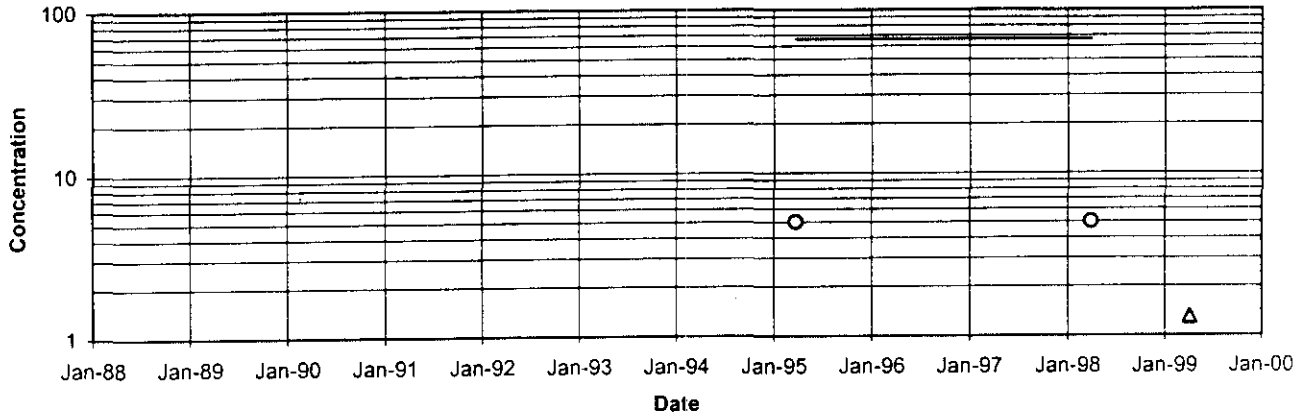
G34D



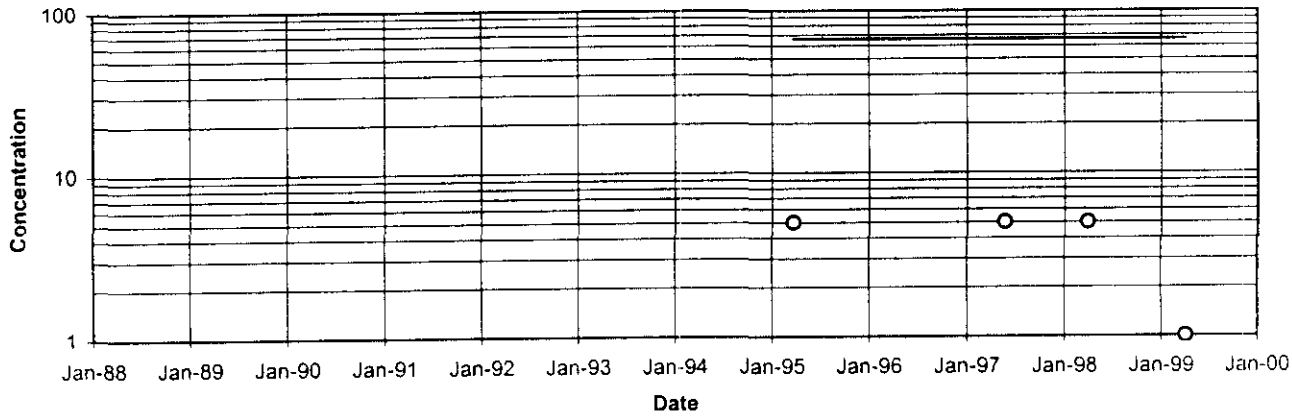
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

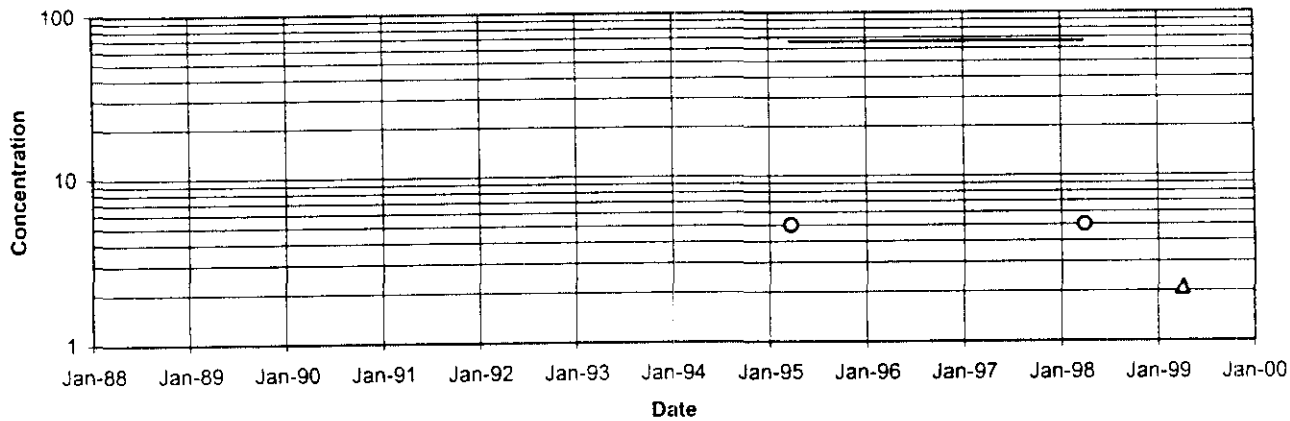
G34S



G35D



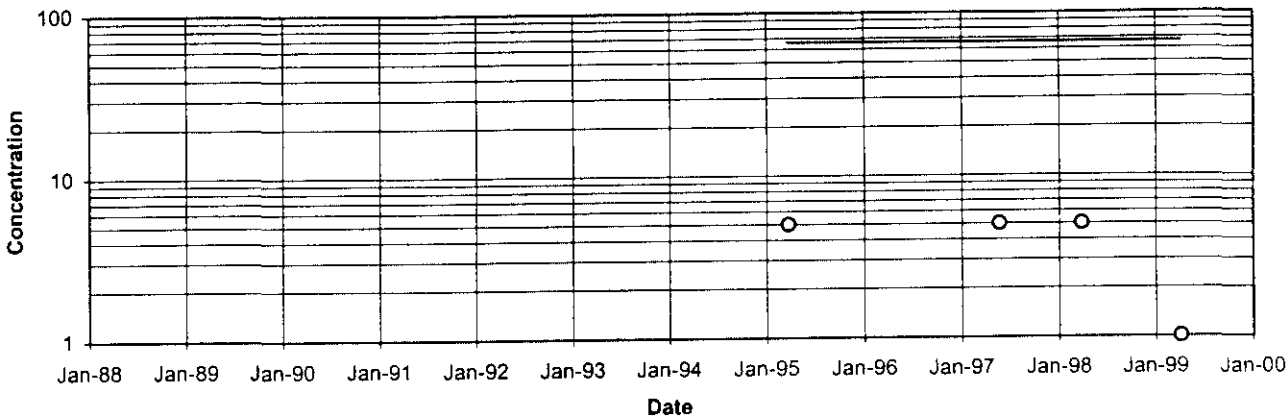
G35S



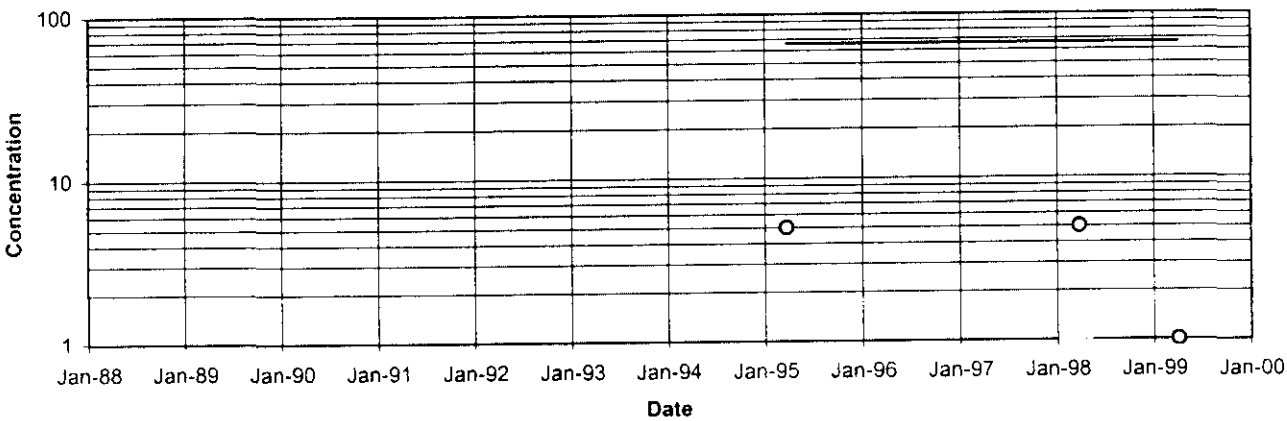
Trichloroethene (ug/L)

AGQS Δ Concentration ○ NonDetect

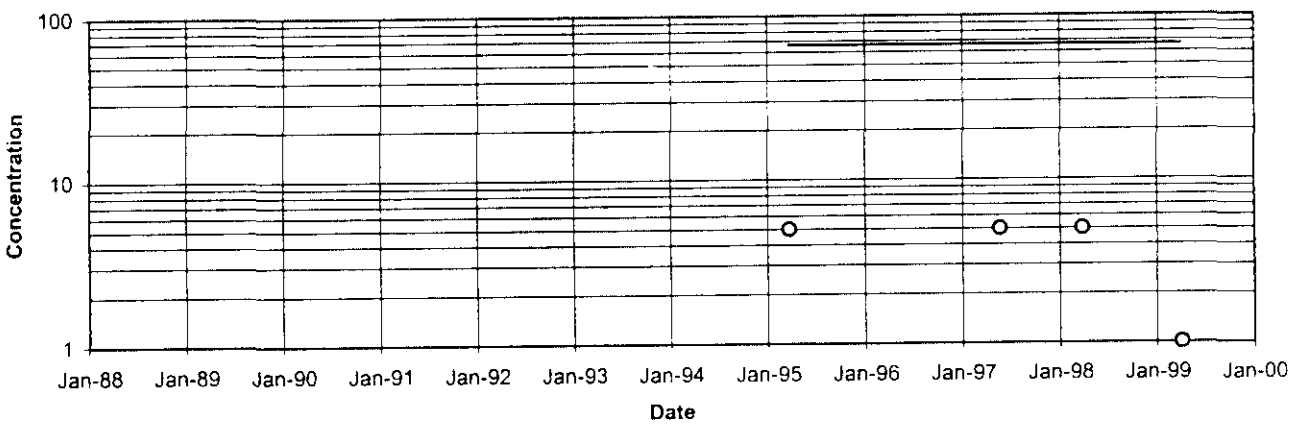
G36



G37D



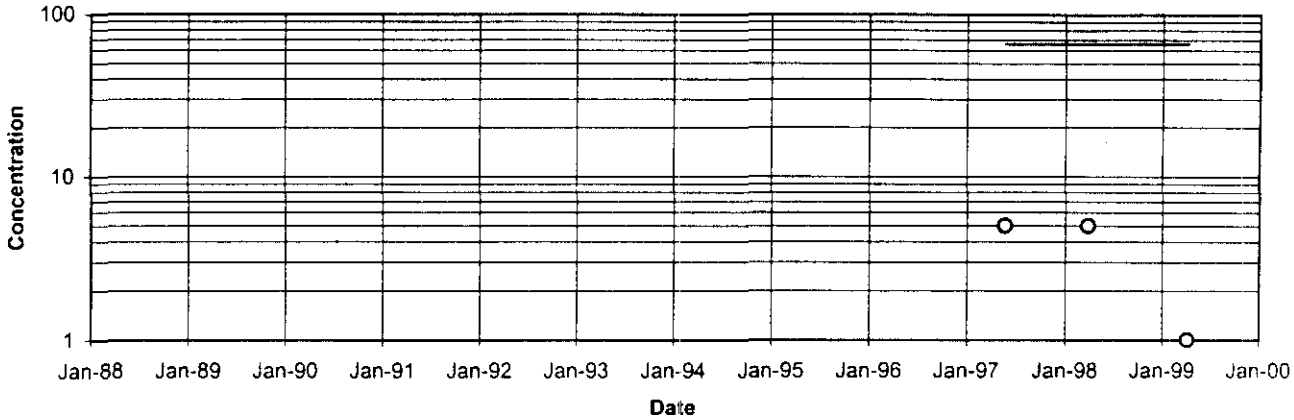
G37S



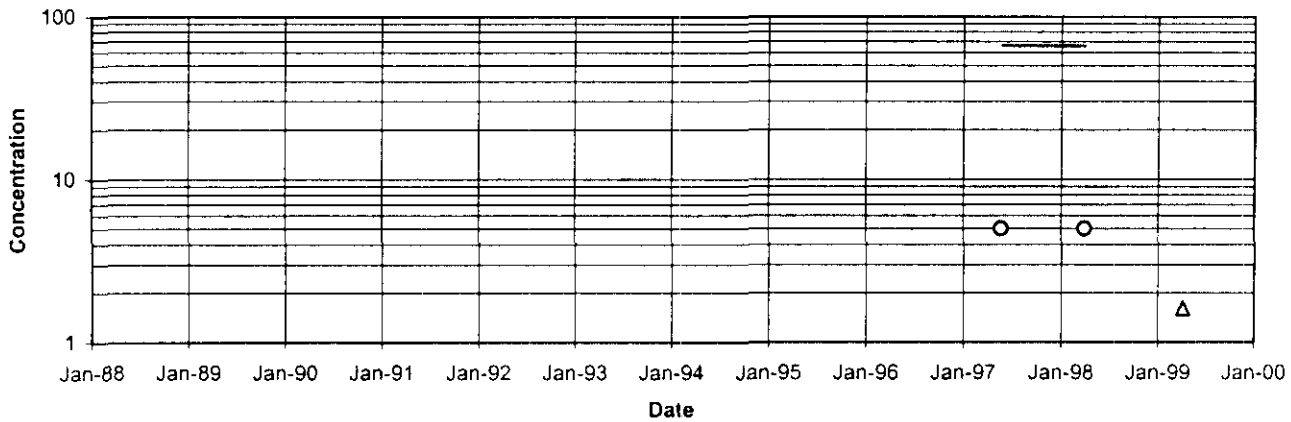
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

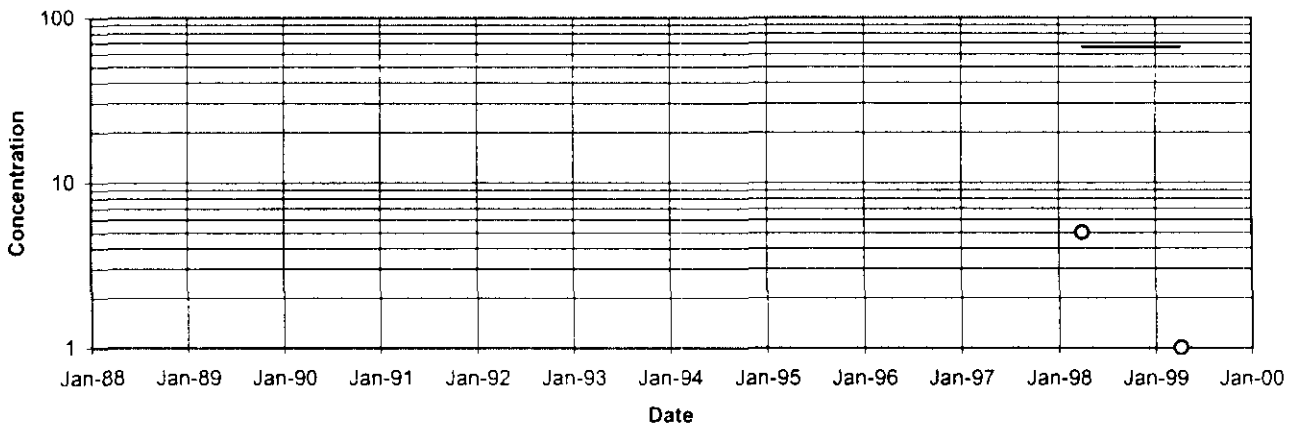
G38



G39



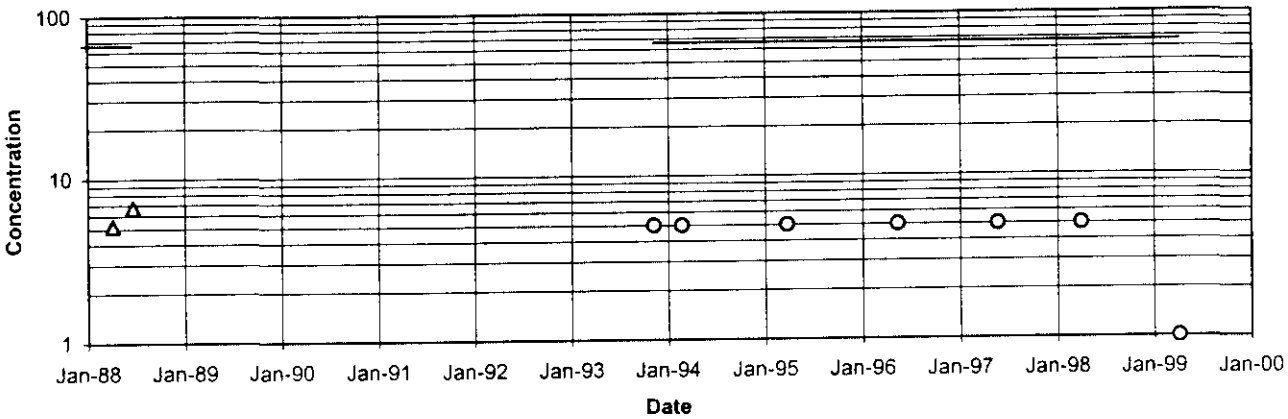
G40



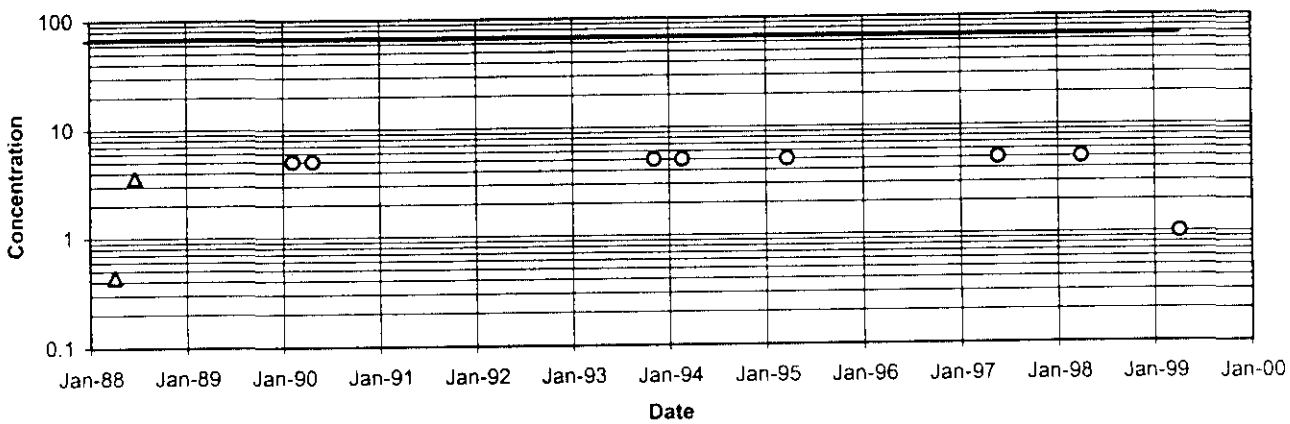
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

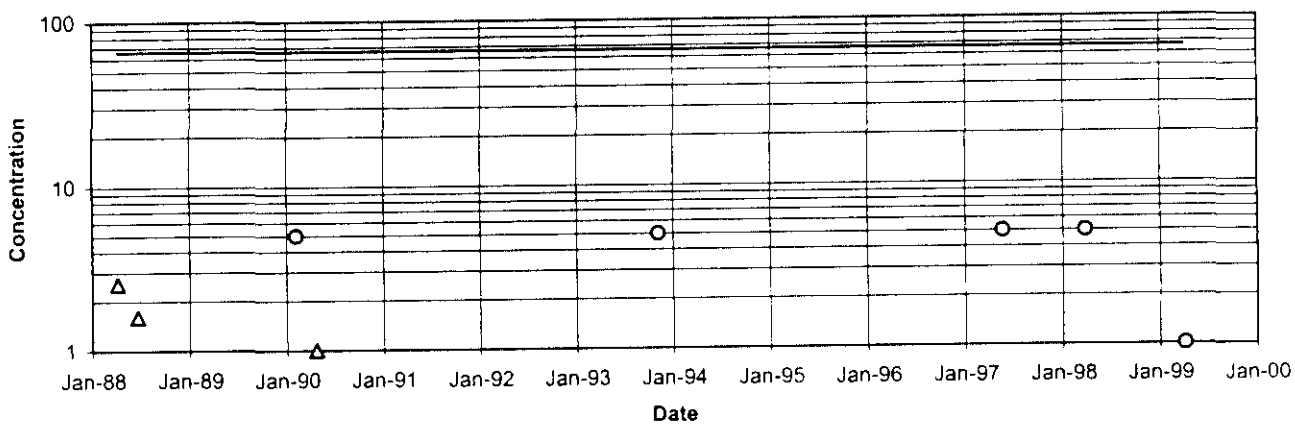
MW106



P1



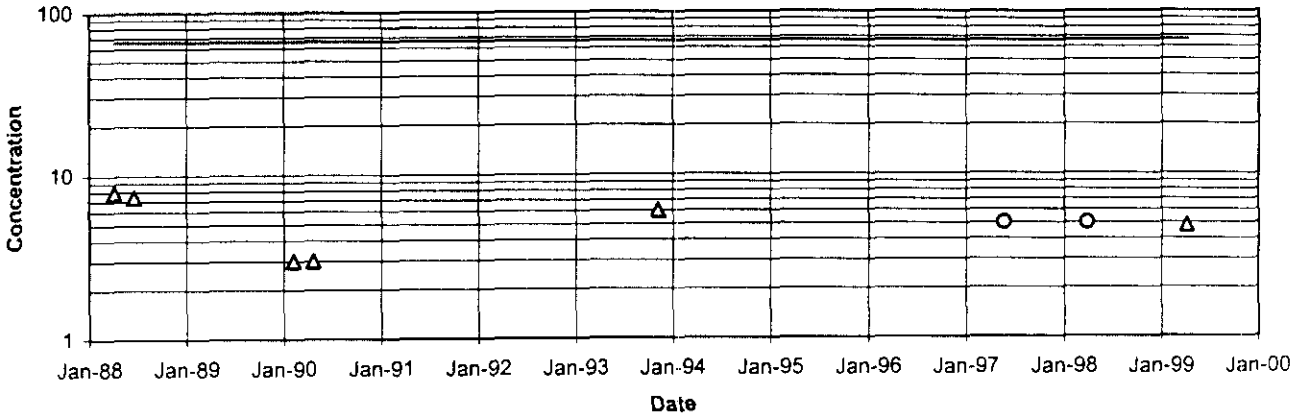
P3R



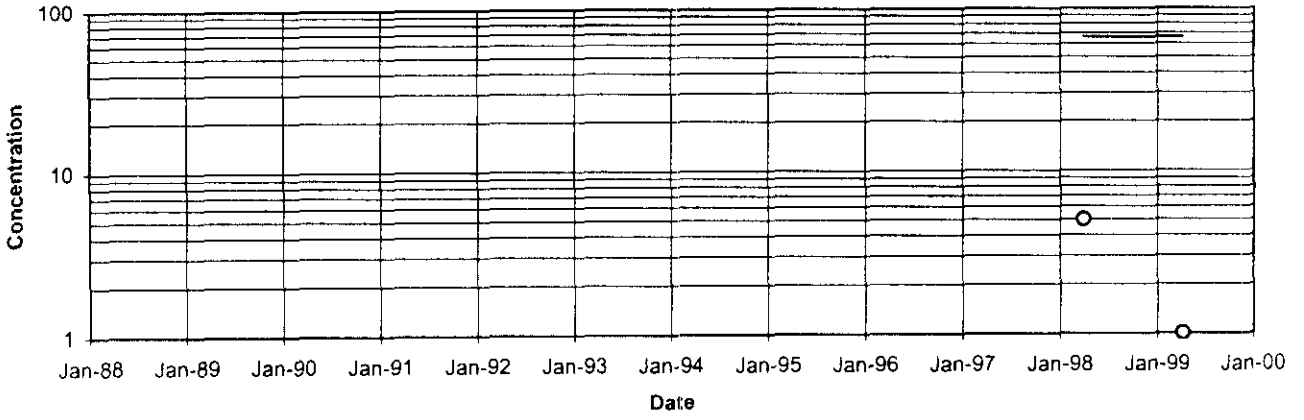
Trichloroethene (ug/L)

AGQS Δ Concentration O NonDetect

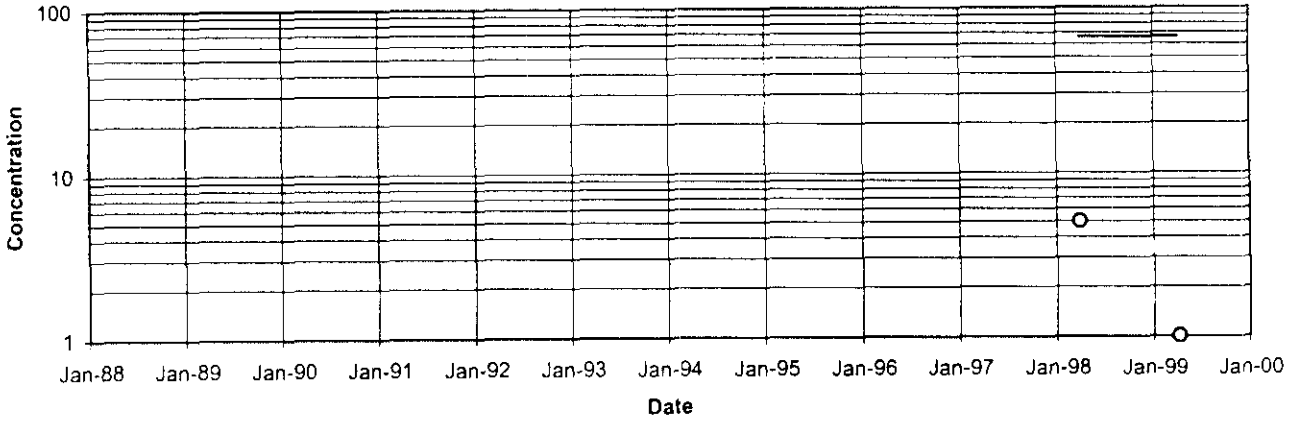
P4R



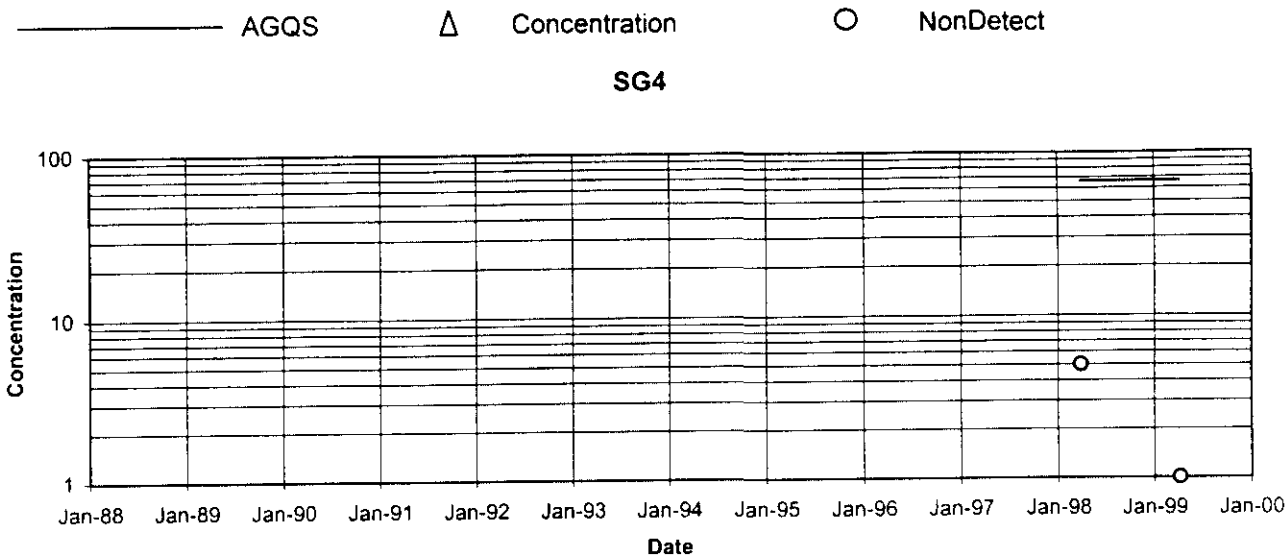
SG1



SG3



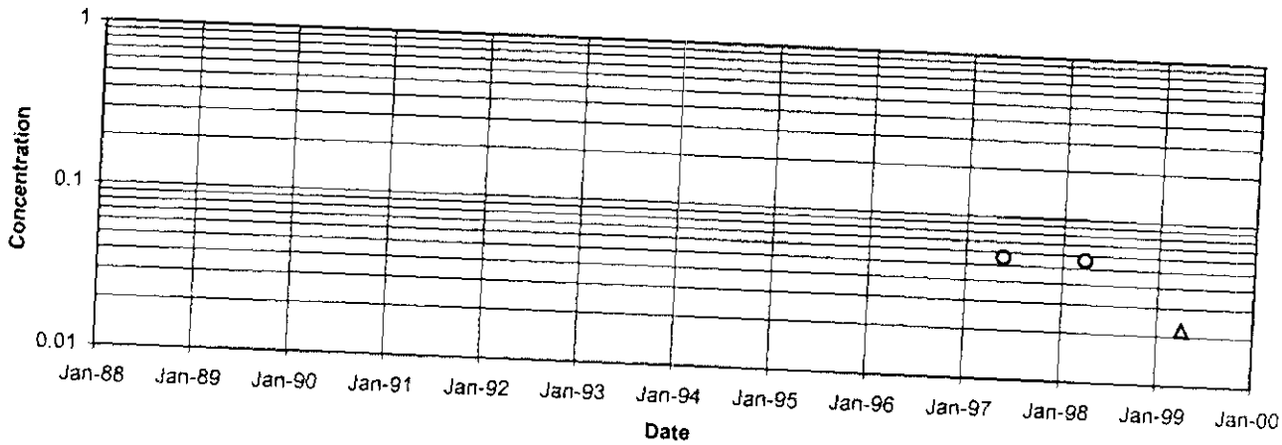
Trichloroethene (ug/L)



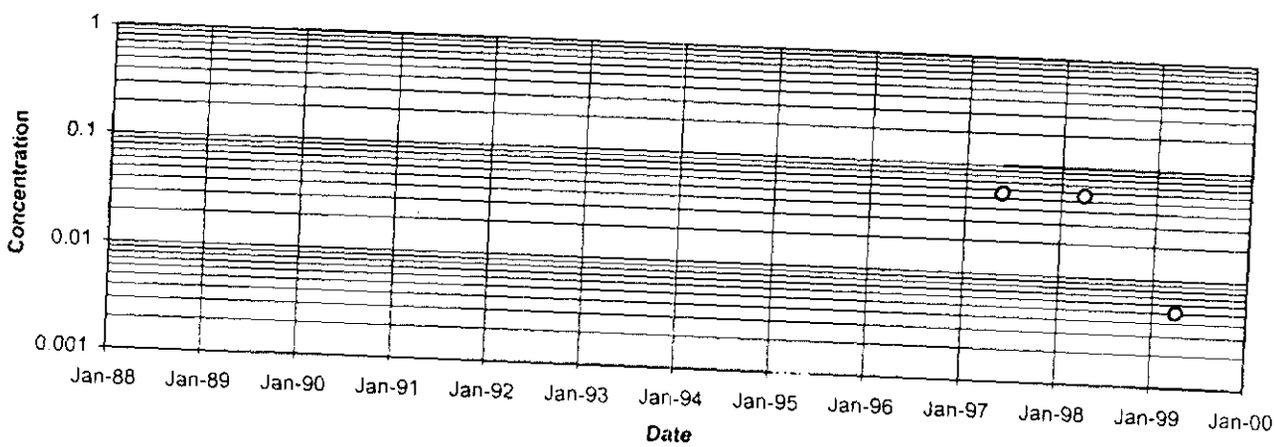
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

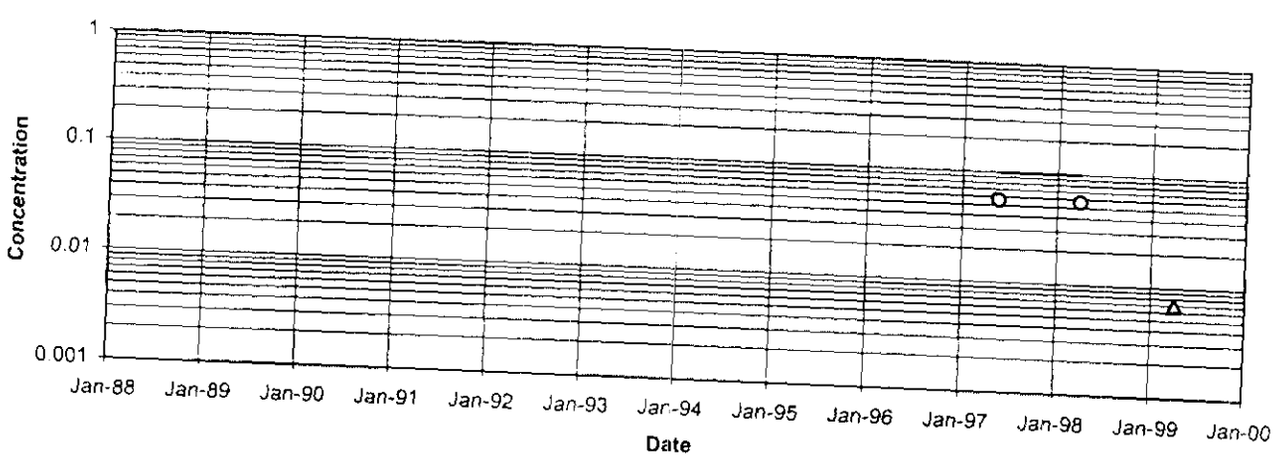
B15R



G109



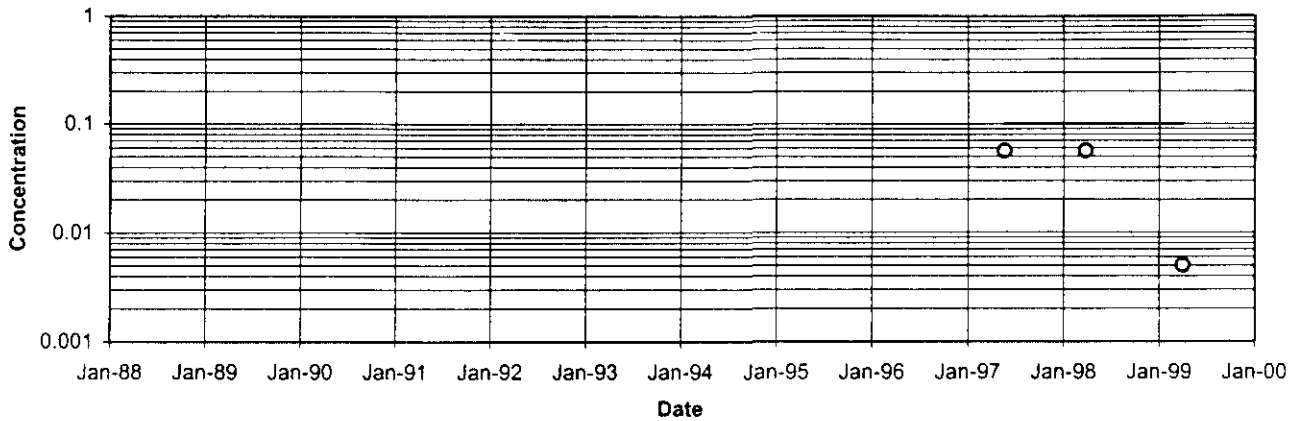
G109A



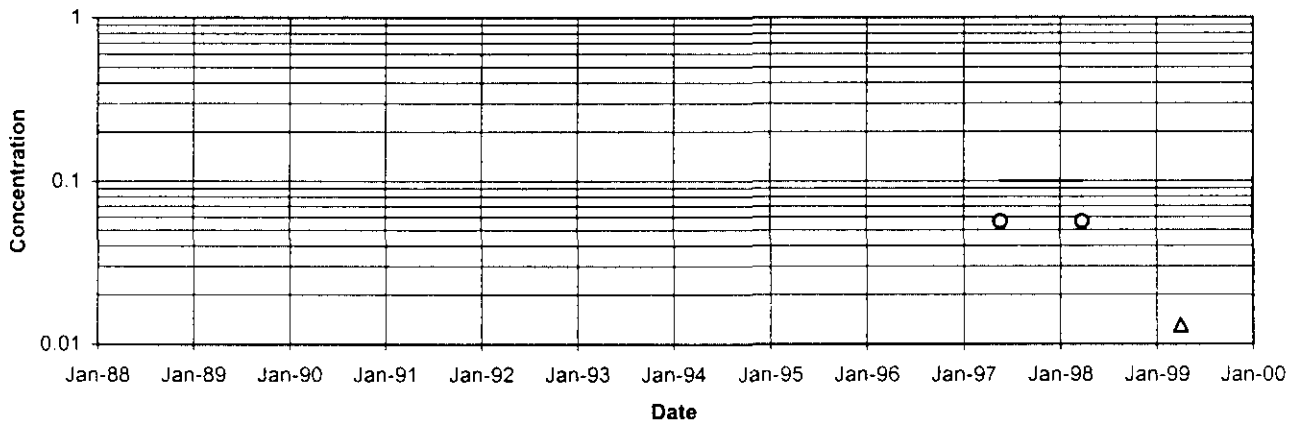
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

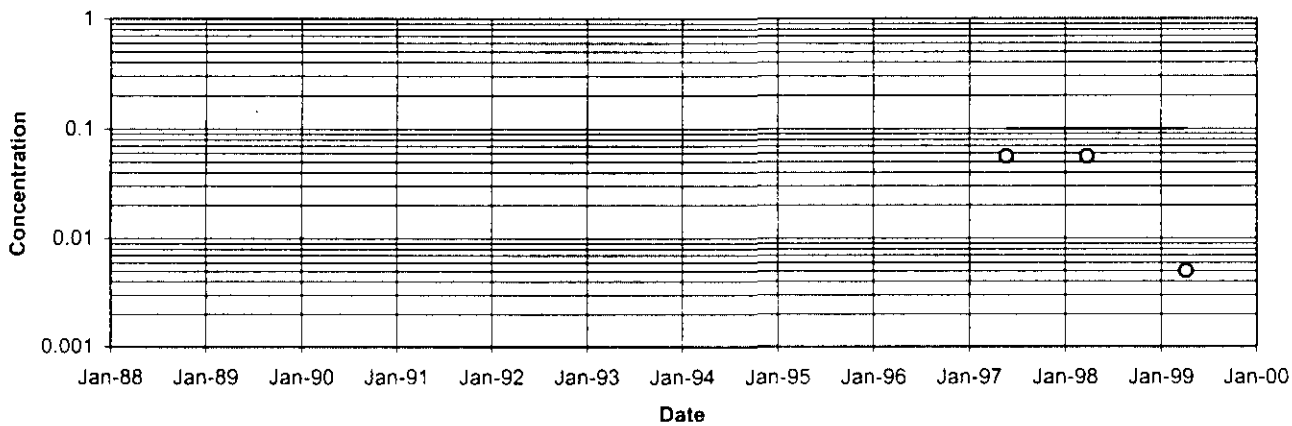
G113



G113A



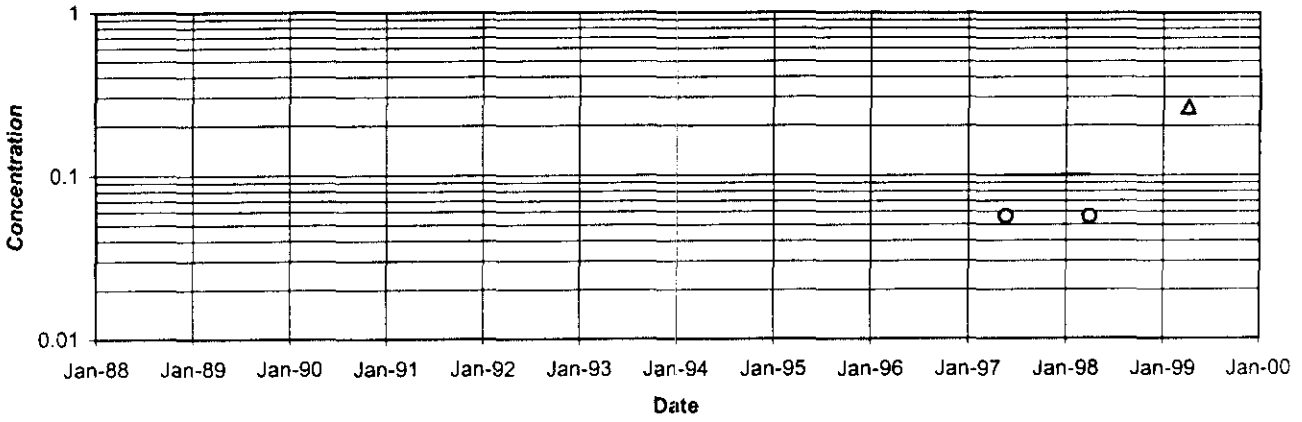
G114



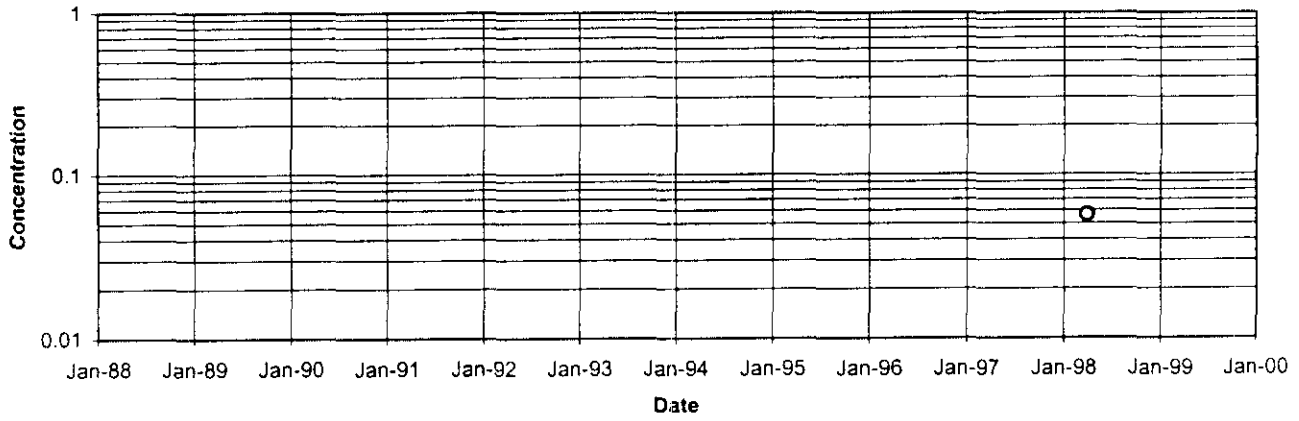
Vanadium (mg/L)

AGQS Δ Concentration ○ NonDetect

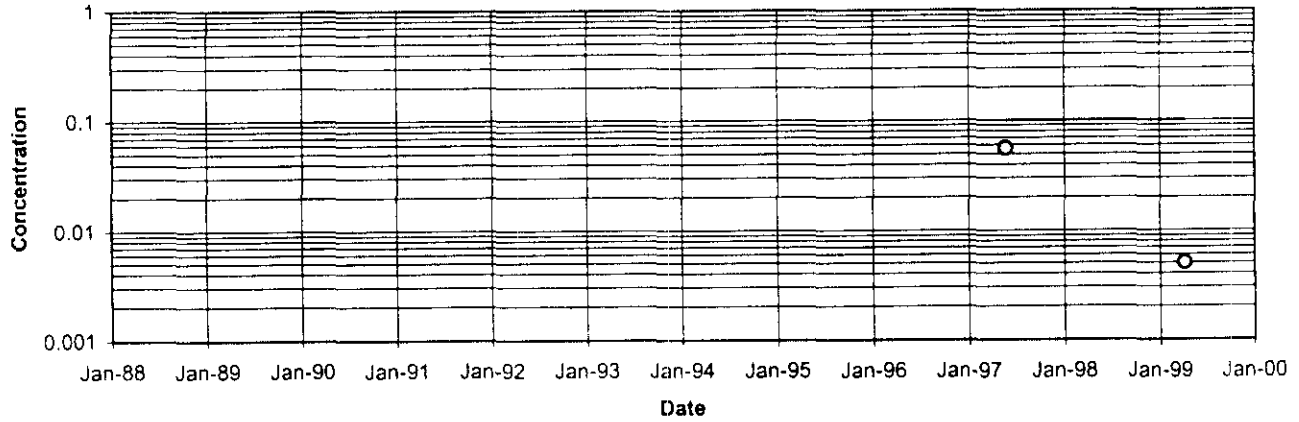
G115



G116



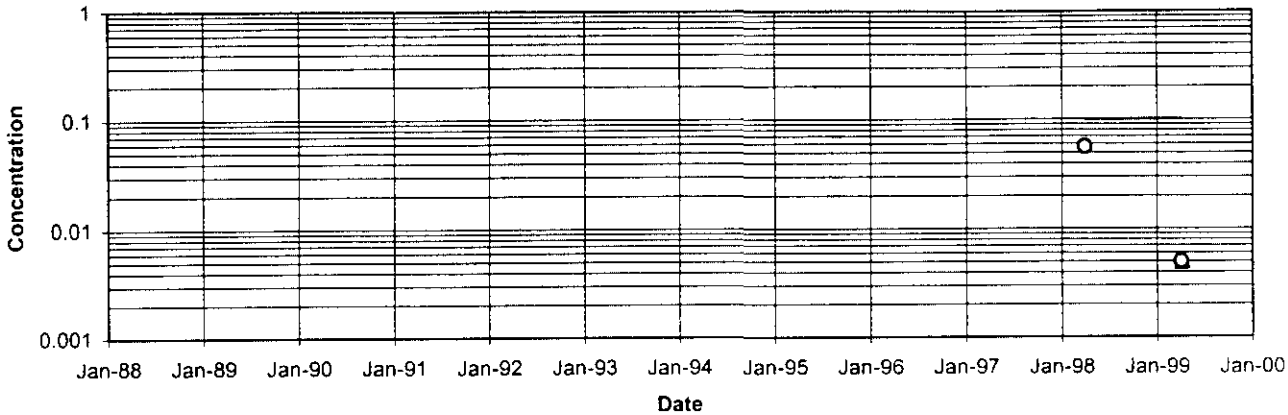
G116A



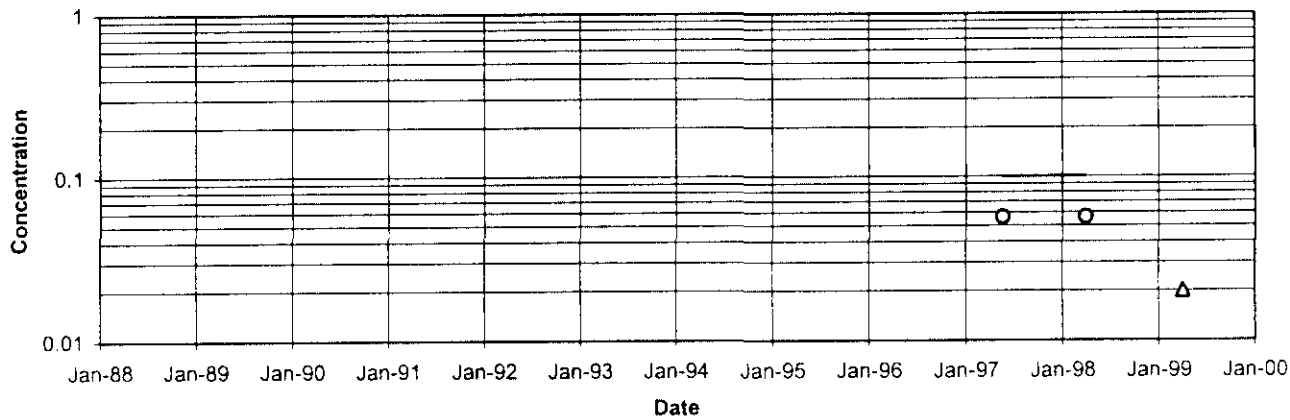
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

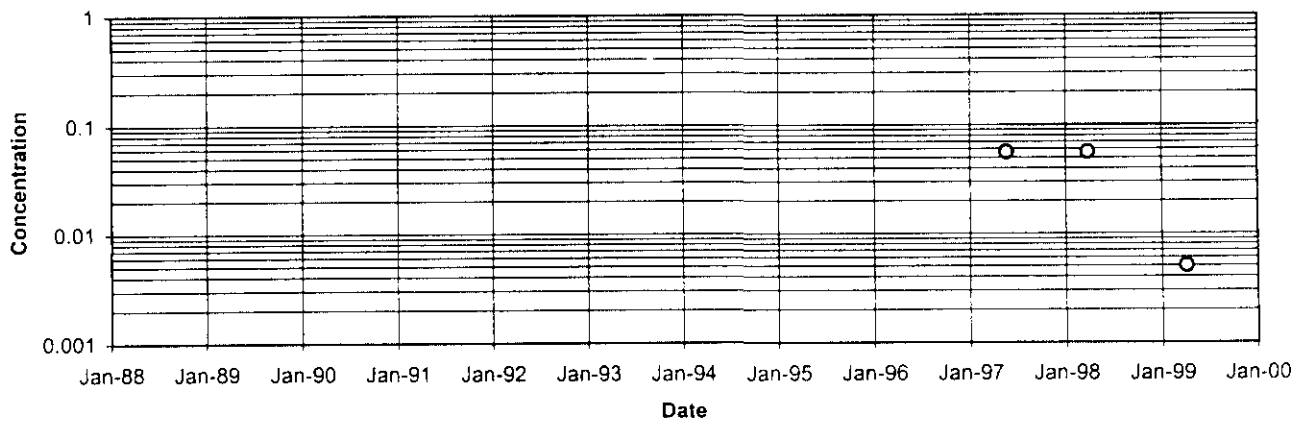
G116D



G117



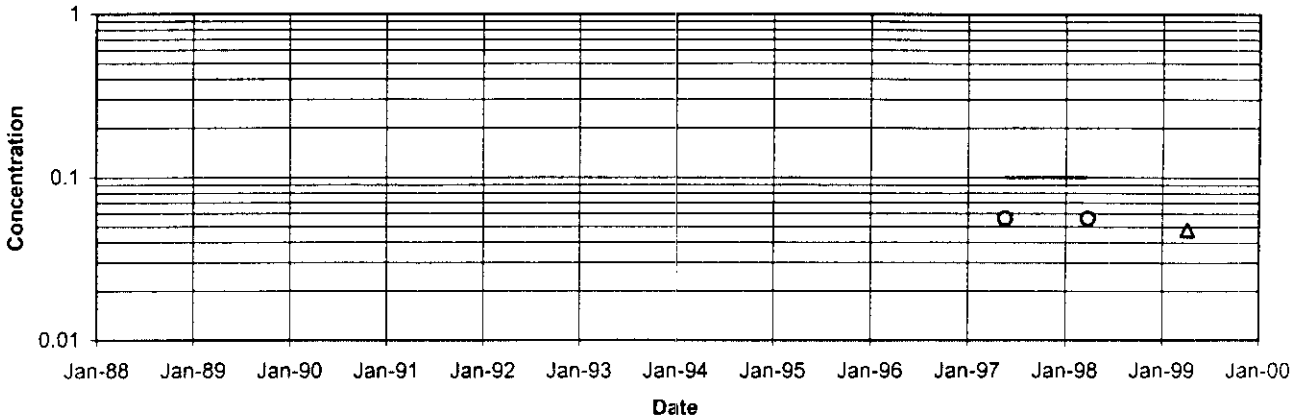
G118A



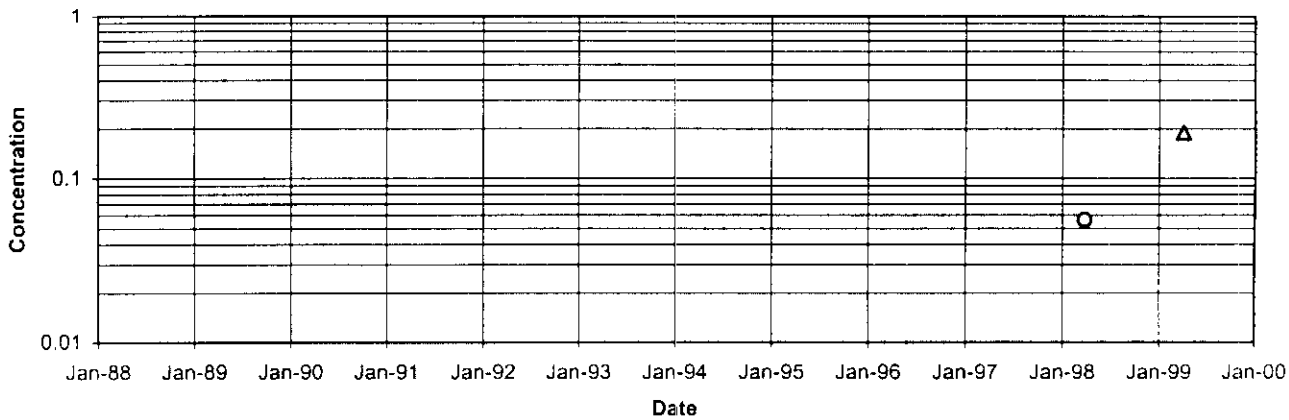
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

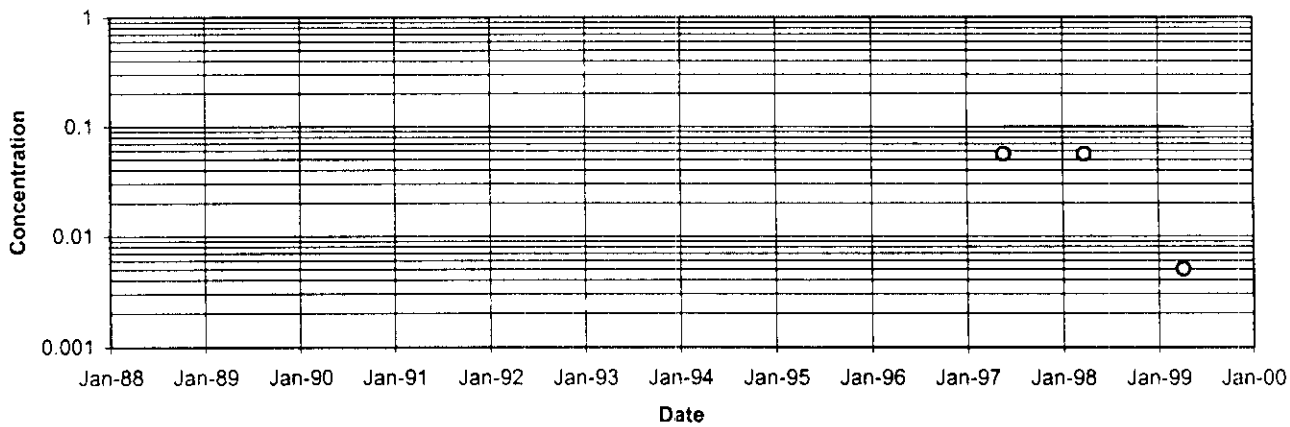
G118R



G119



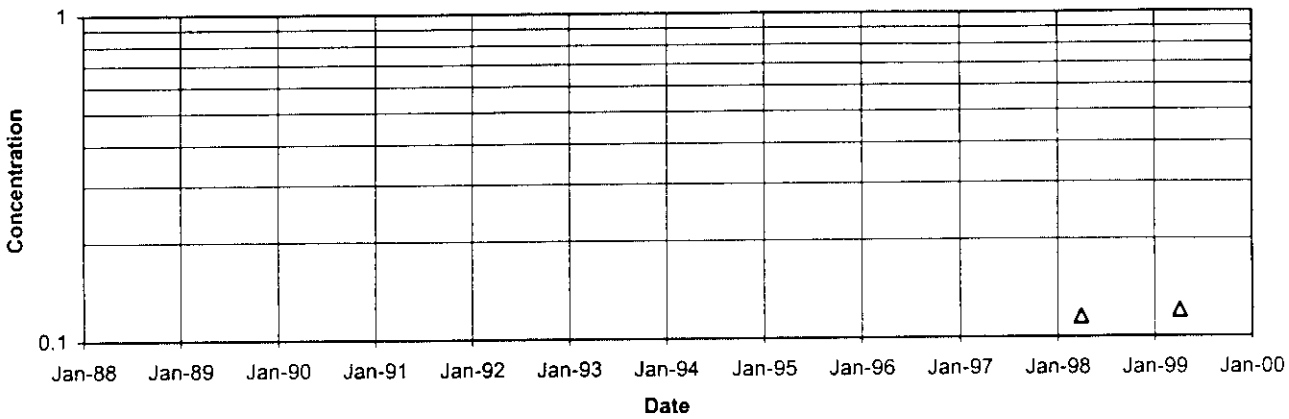
G120B



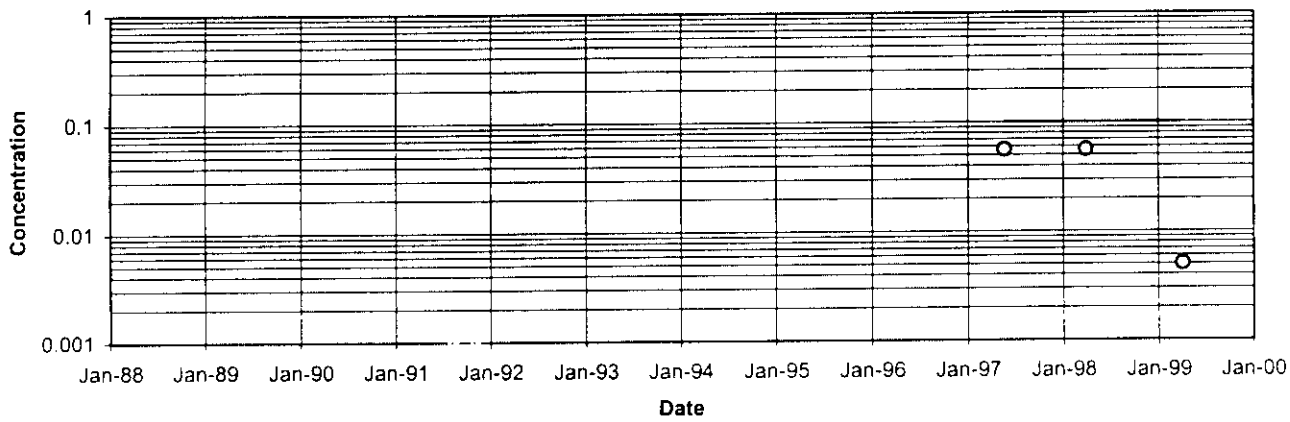
Vanadium (mg/L)

AGQS Δ Concentration ○ NonDetect

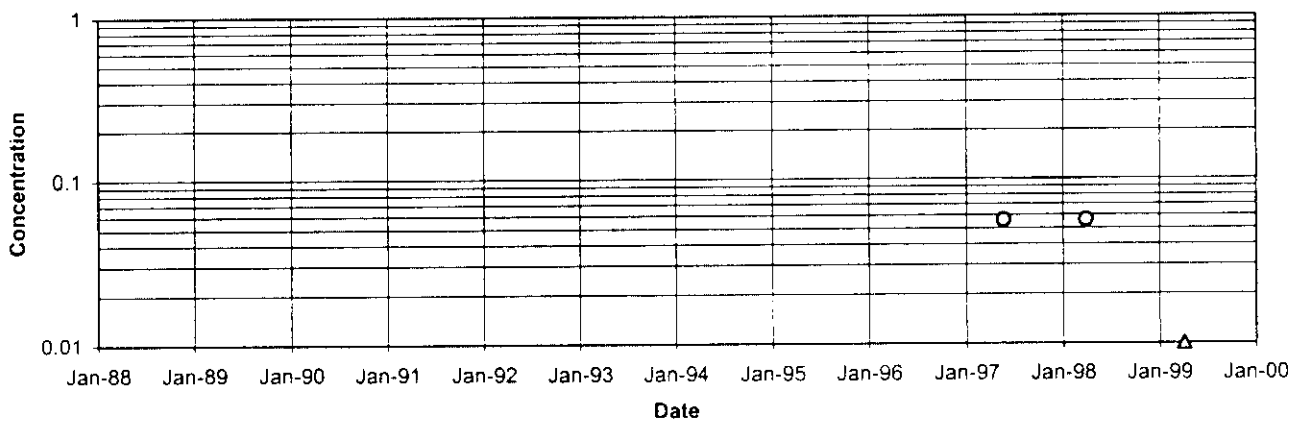
G130



G132



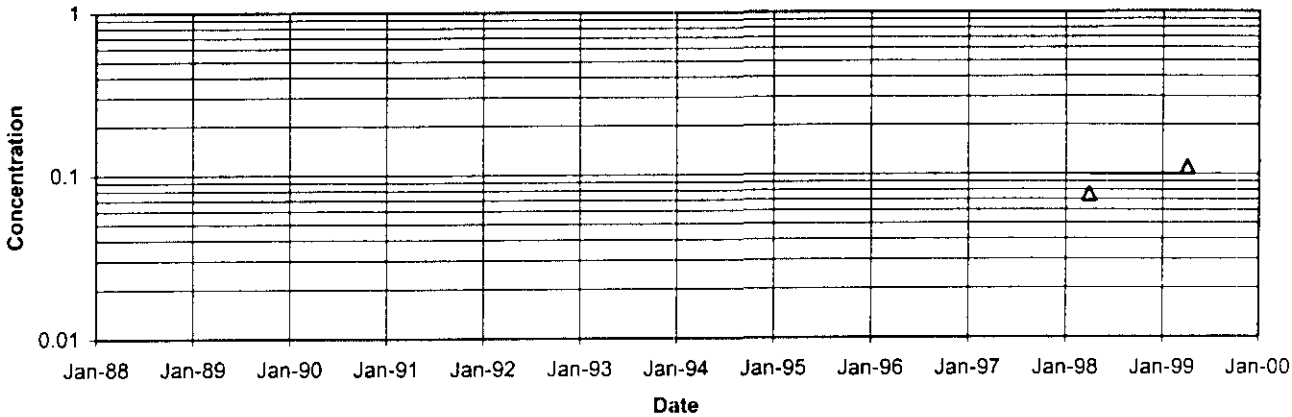
G33D



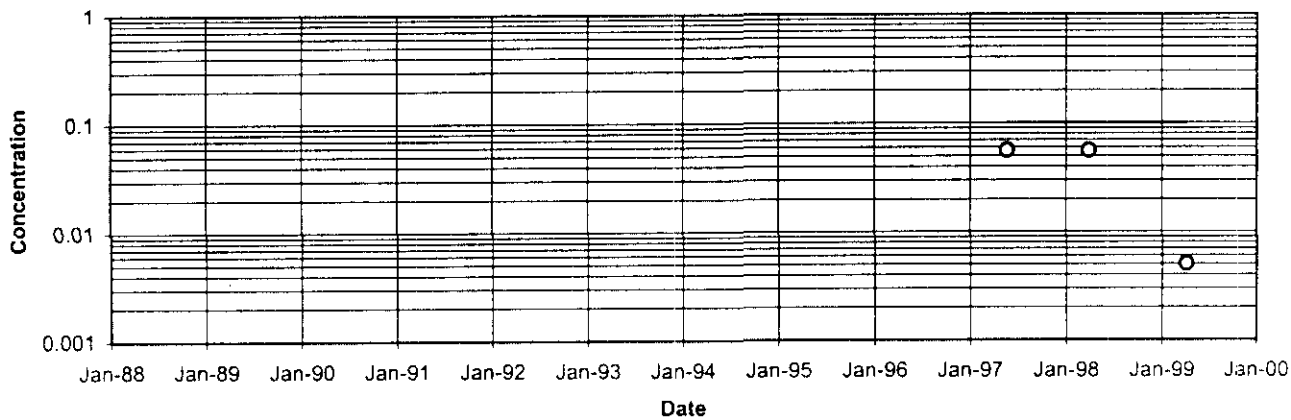
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

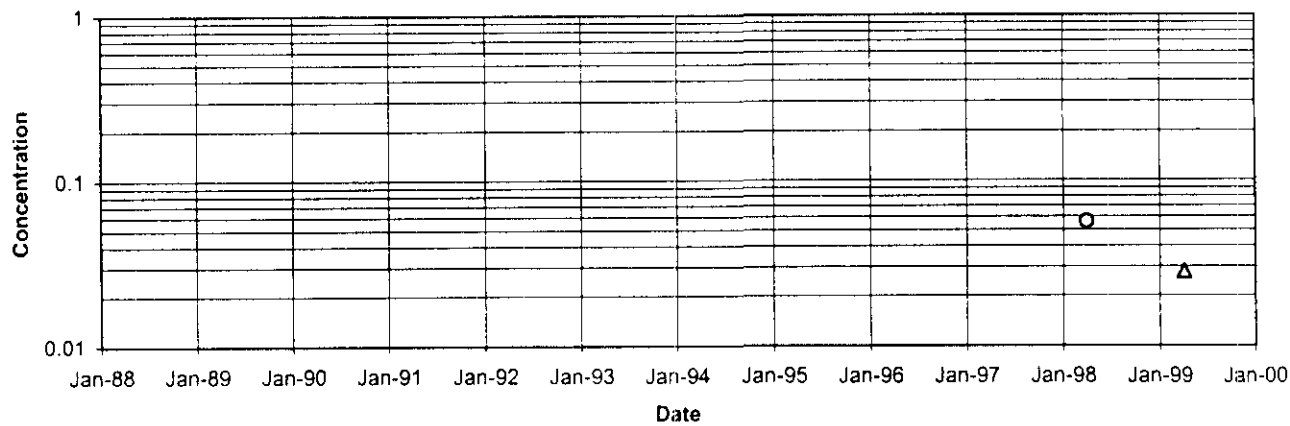
G33S



G34D



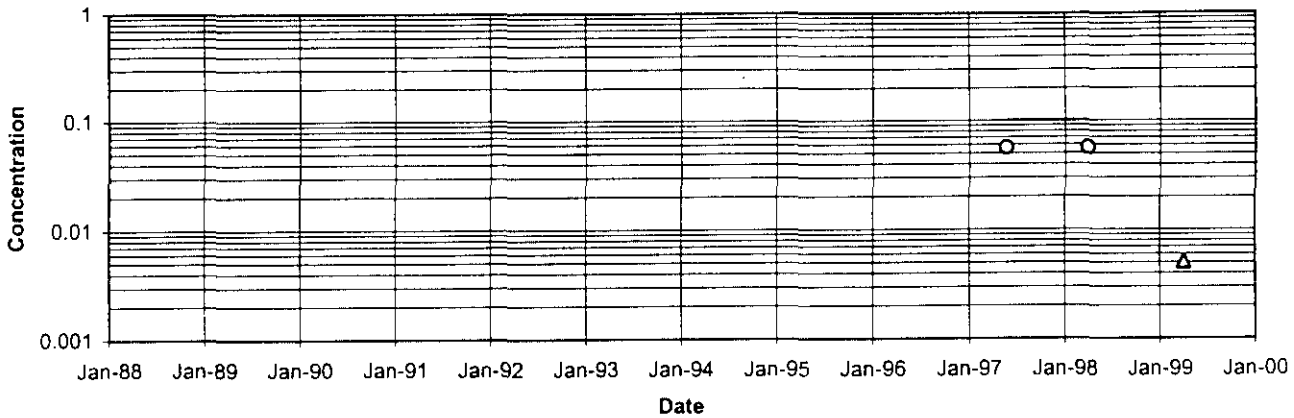
G34S



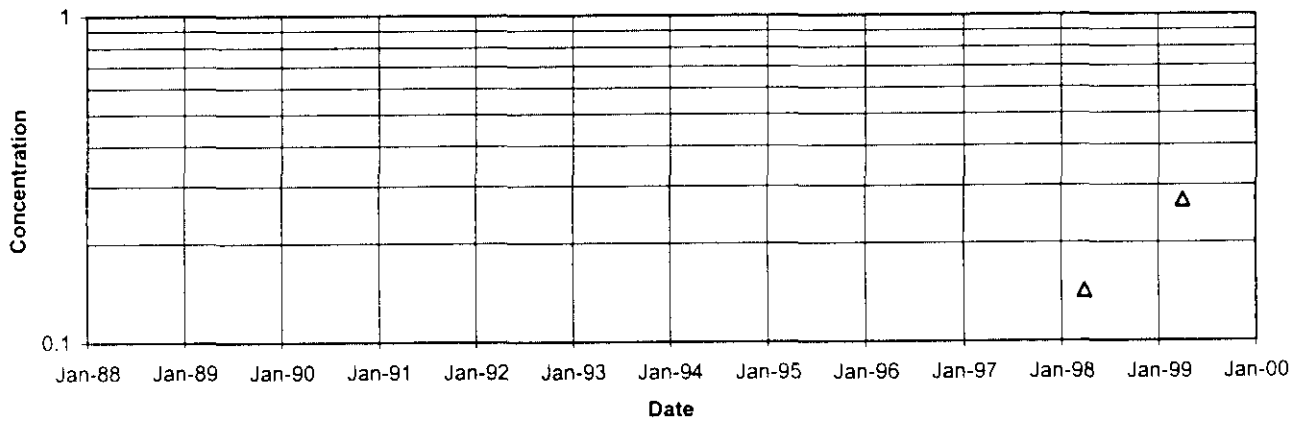
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

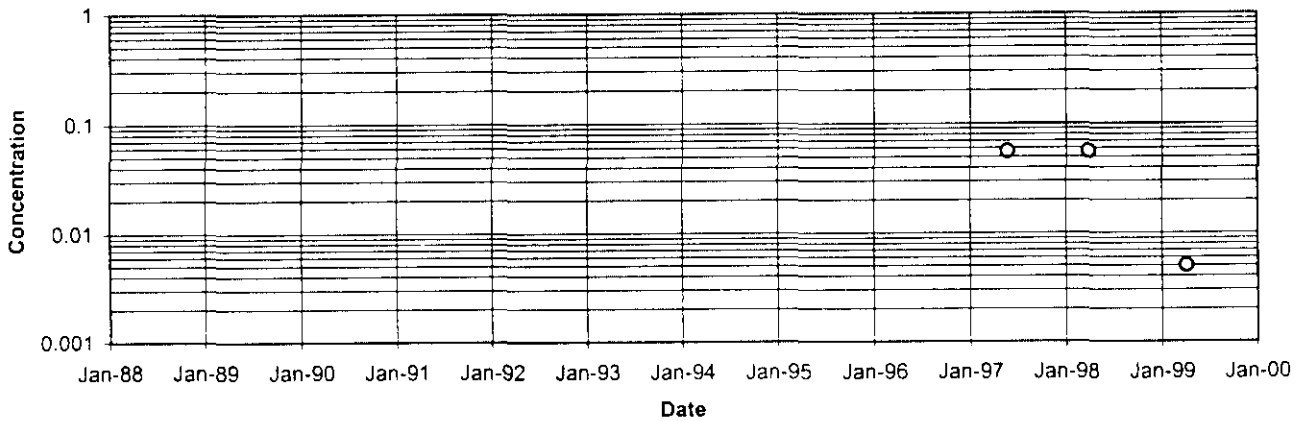
G35D



G35S



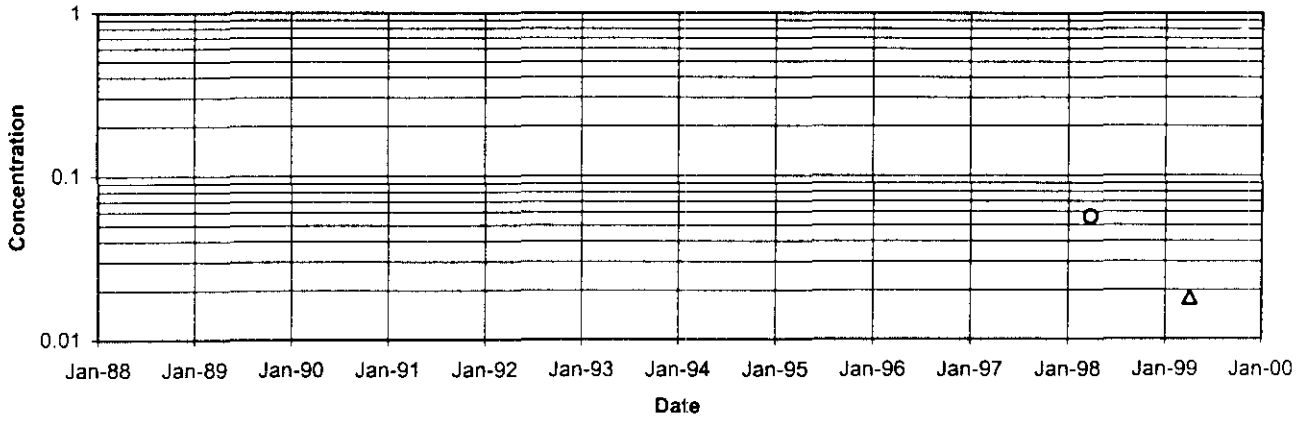
G36



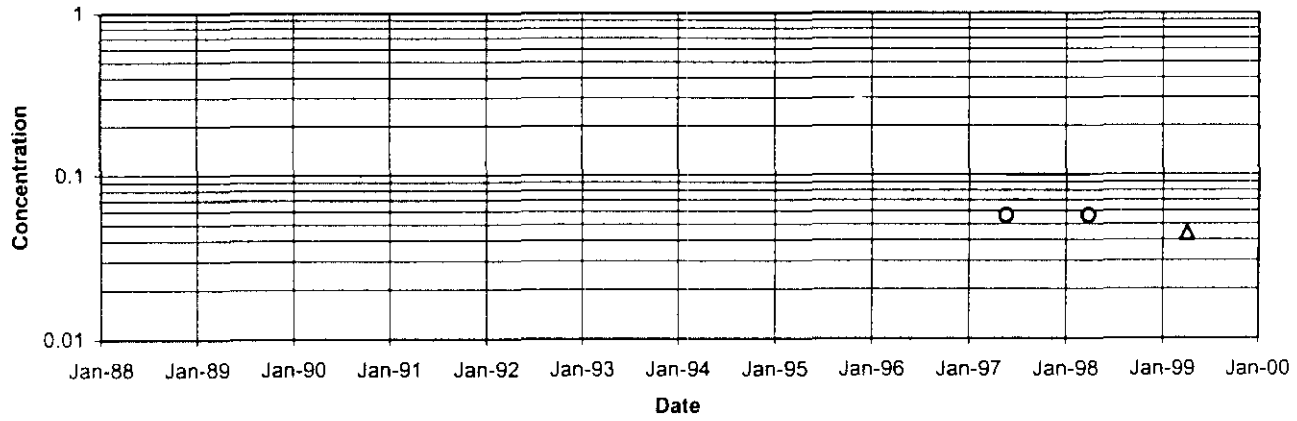
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

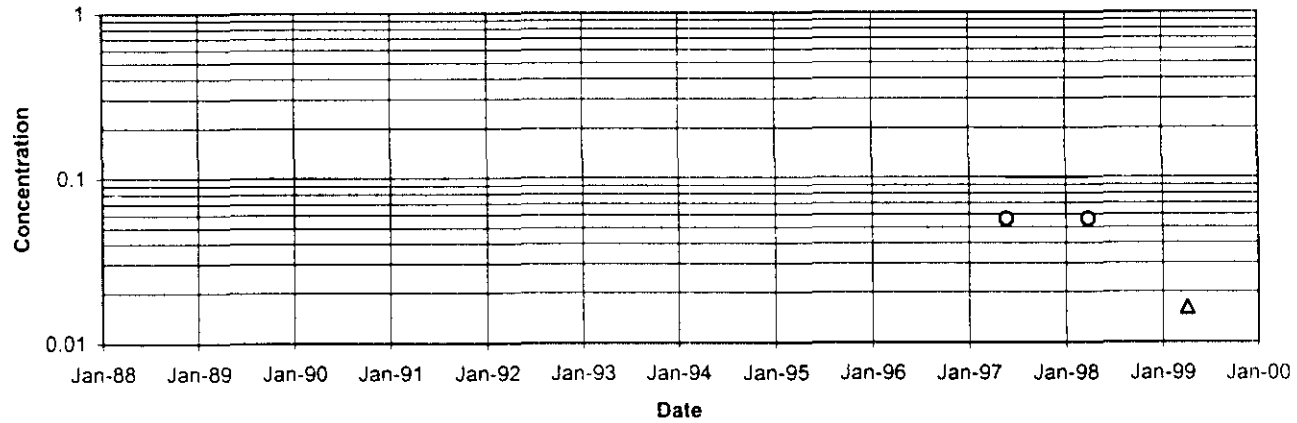
G37D



G37S



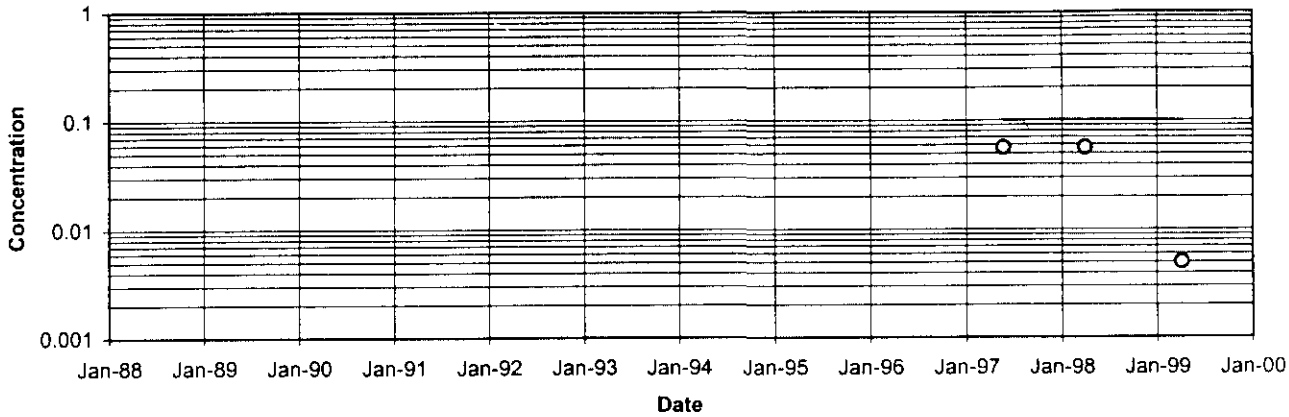
G38



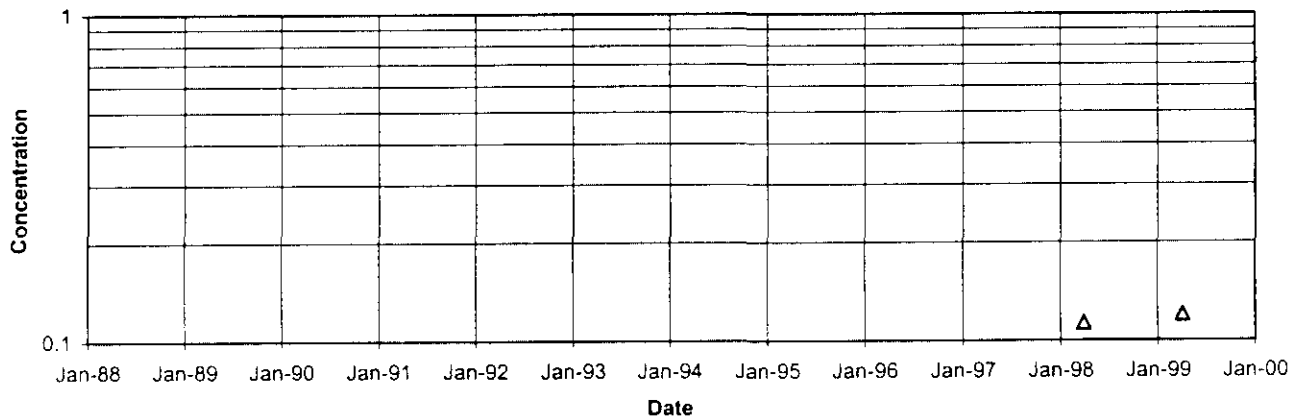
Vanadium (mg/L)

AGQS Δ Concentration ○ NonDetect

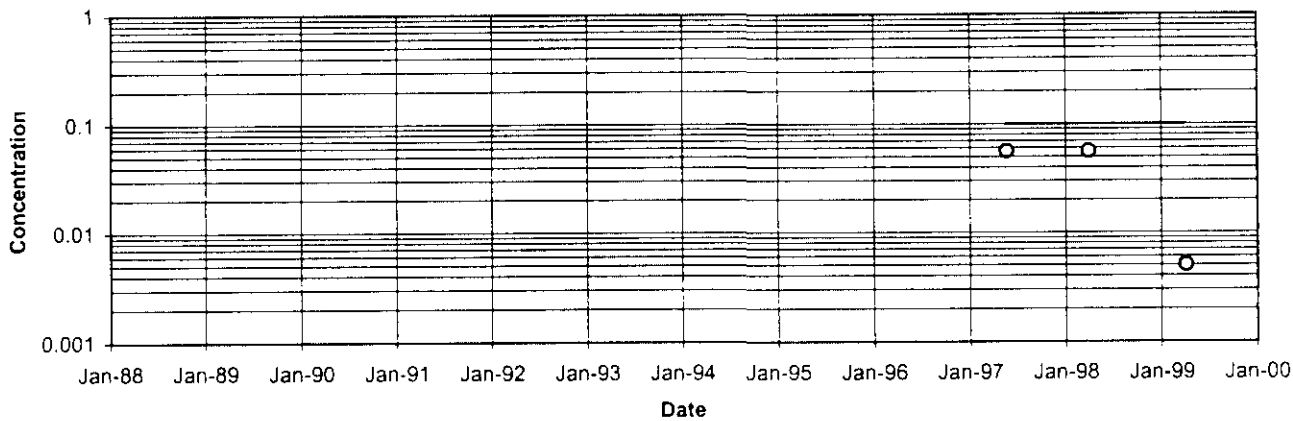
G39



G40



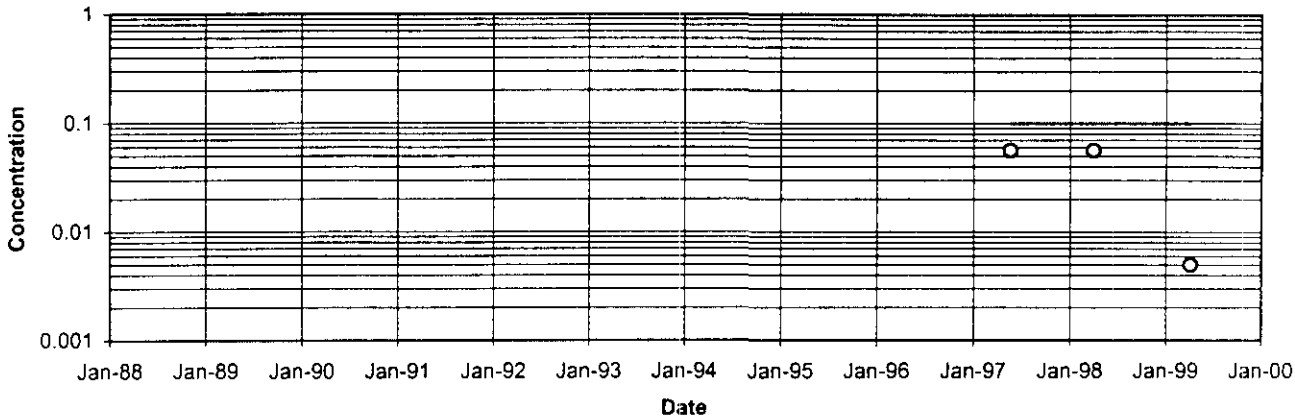
MW106



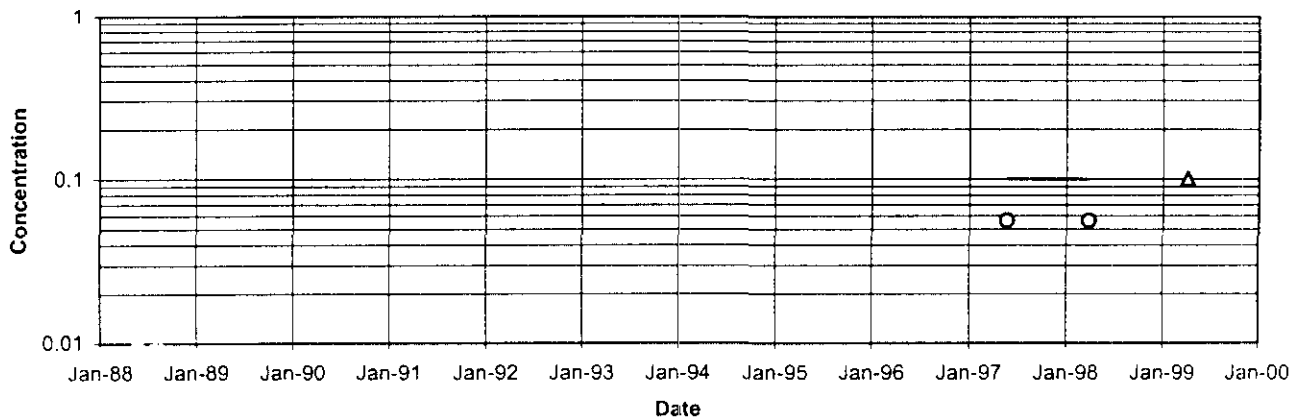
Vanadium (mg/L)

AGQS Δ Concentration ○ NonDetect

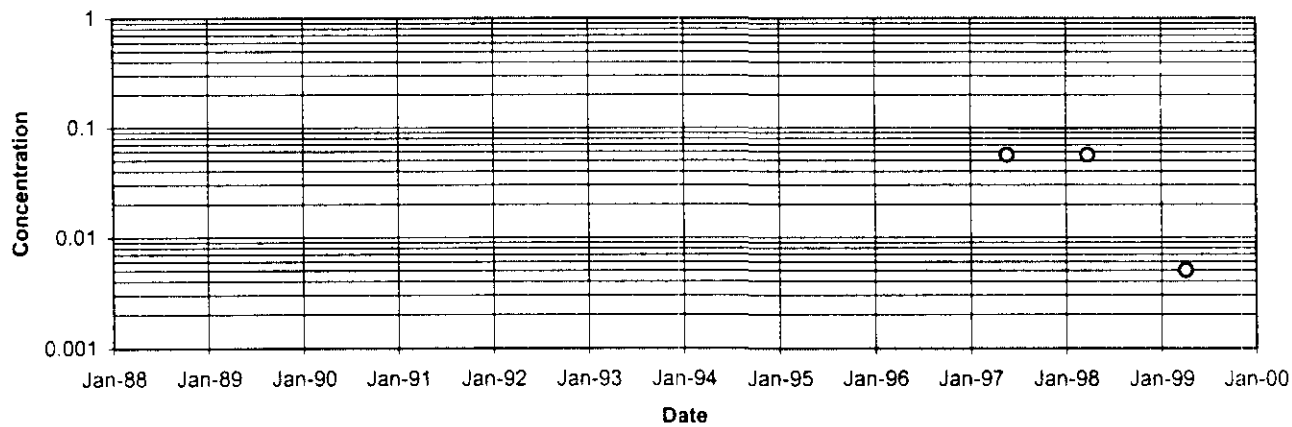
P1



P3R



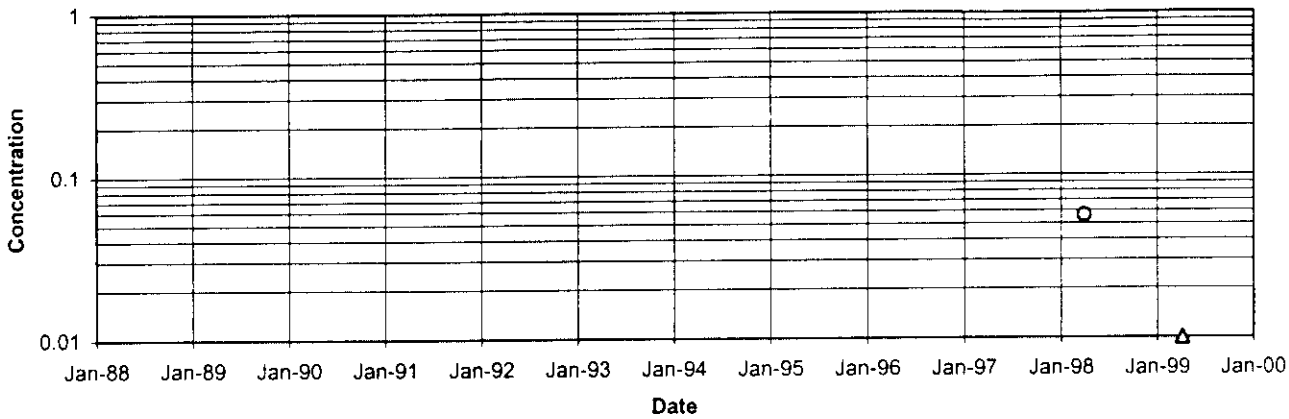
P4R



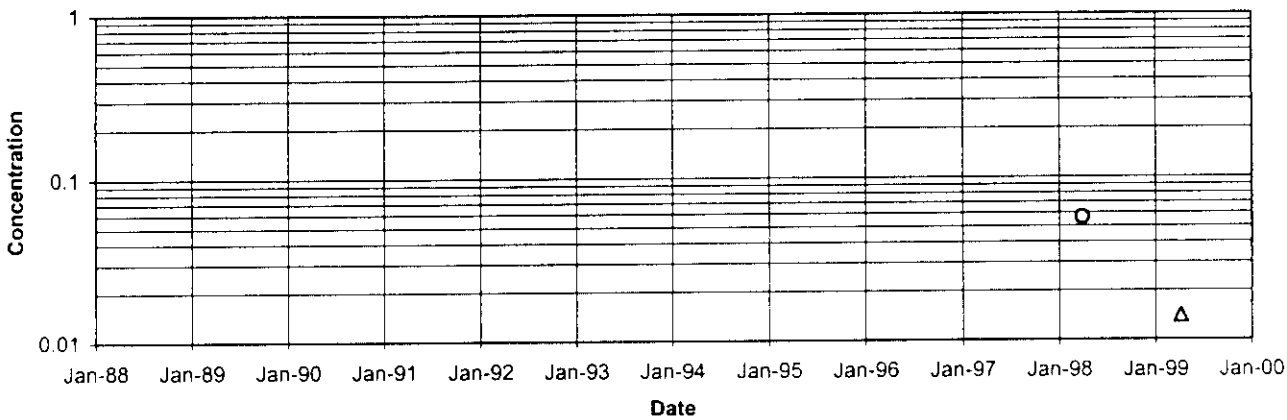
Vanadium (mg/L)

AGQS Δ Concentration O NonDetect

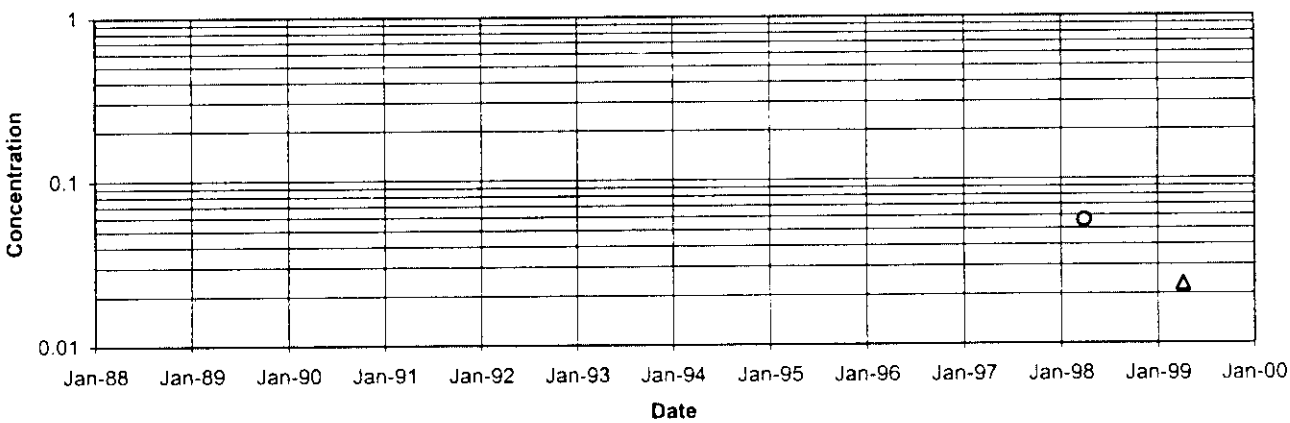
SG1



SG3



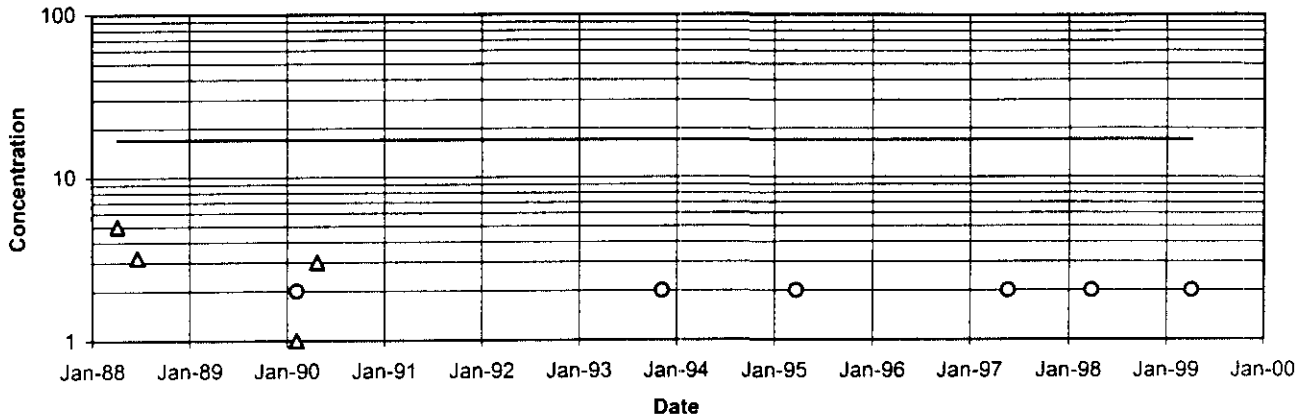
SG4



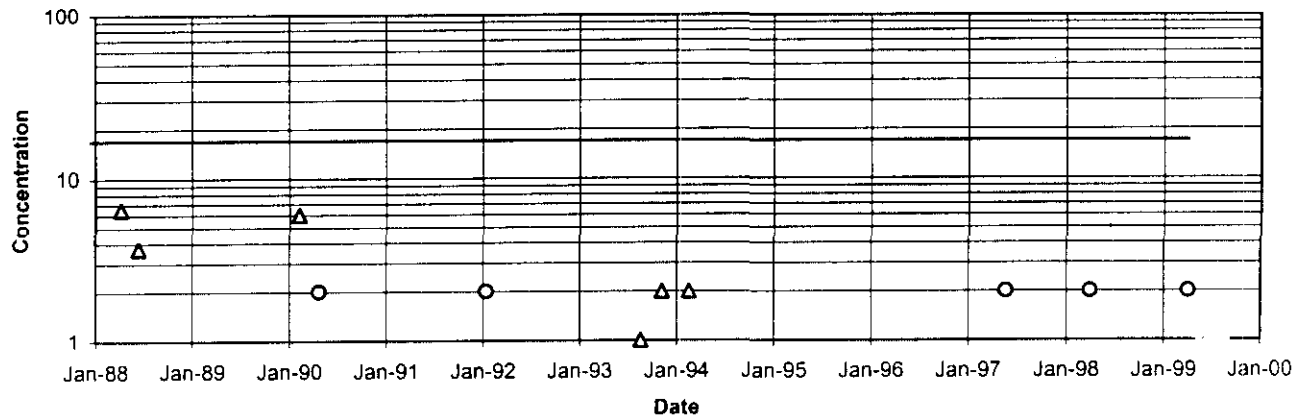
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

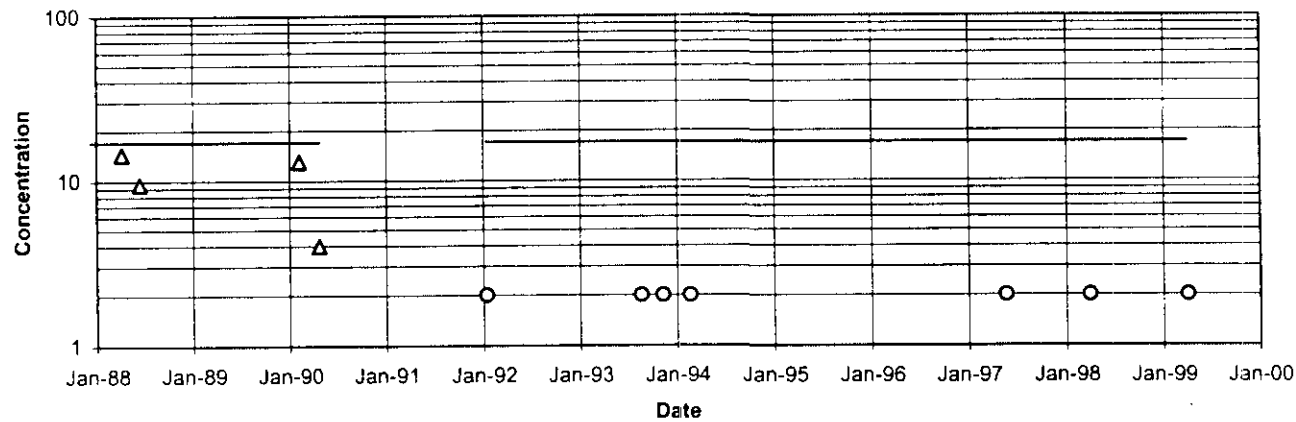
B15R



G109



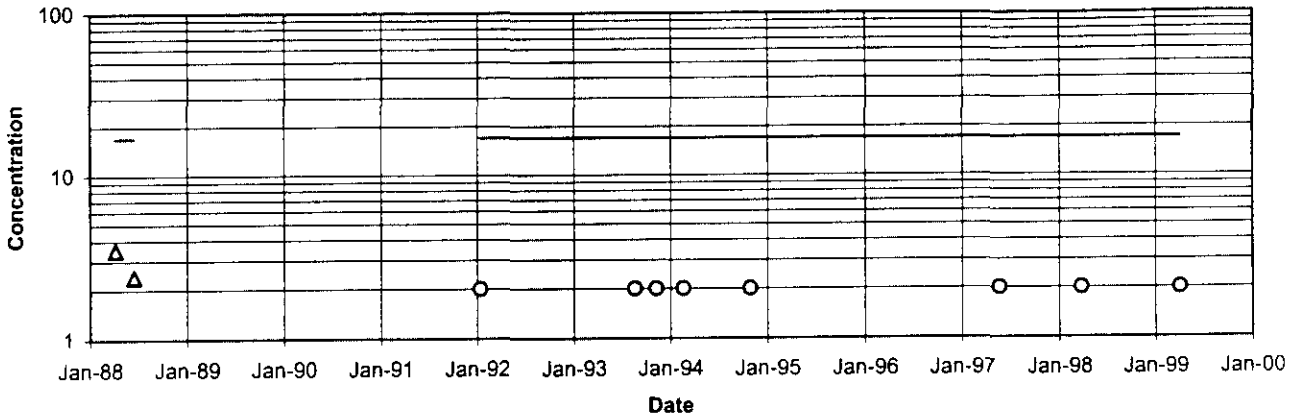
G109A



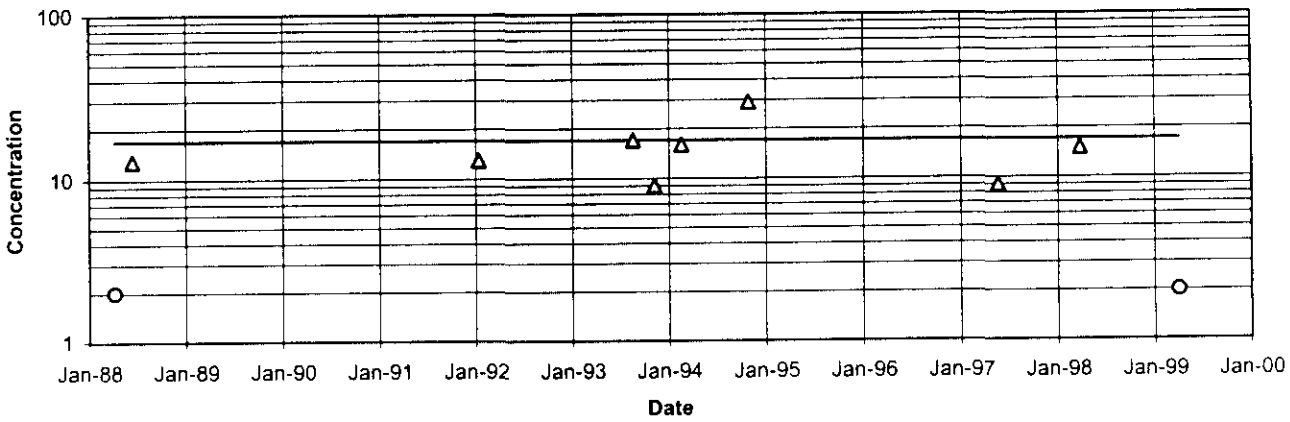
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

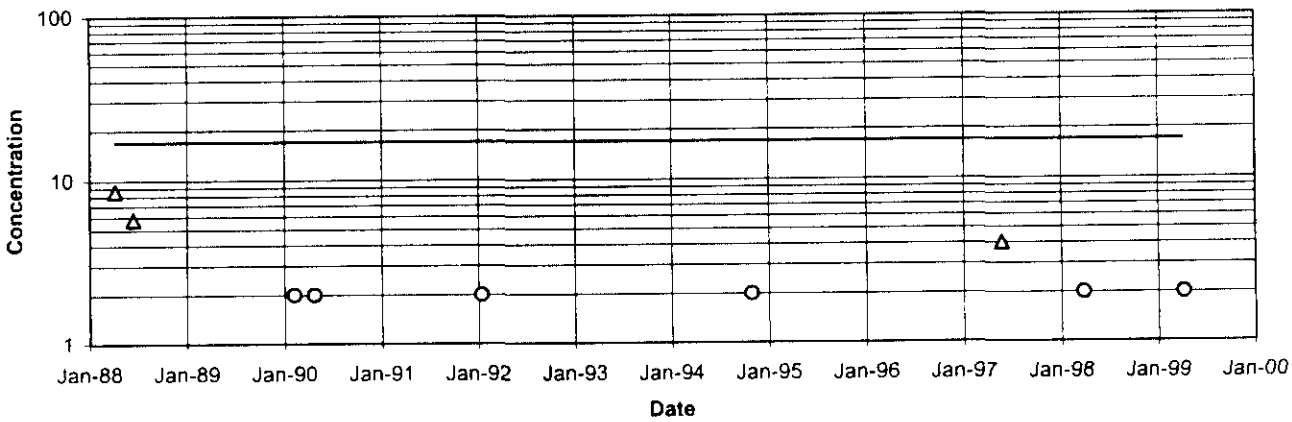
G113



G113A



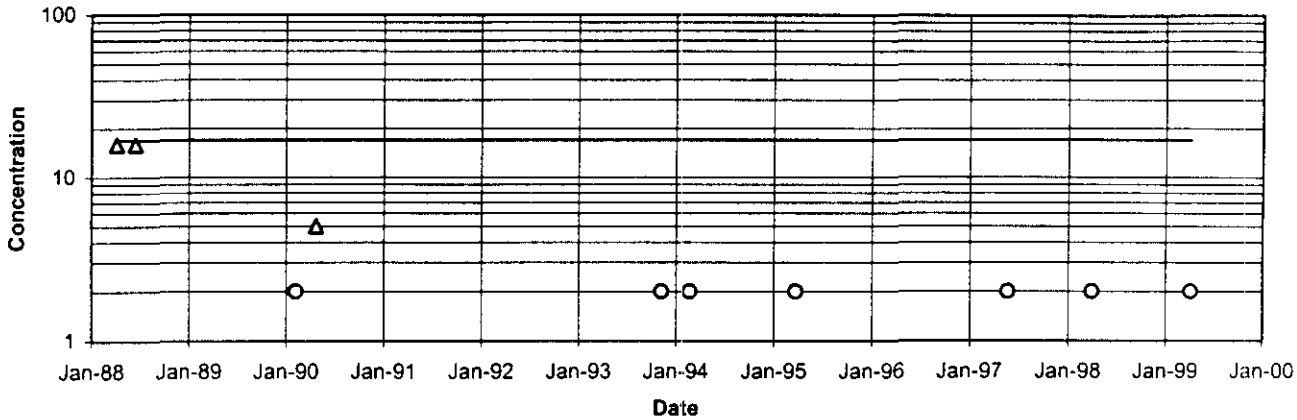
G114



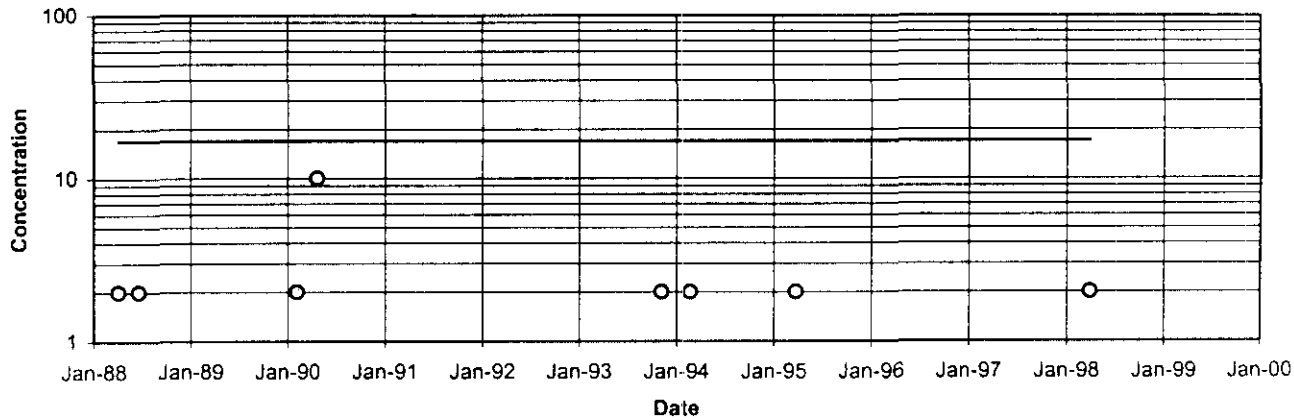
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

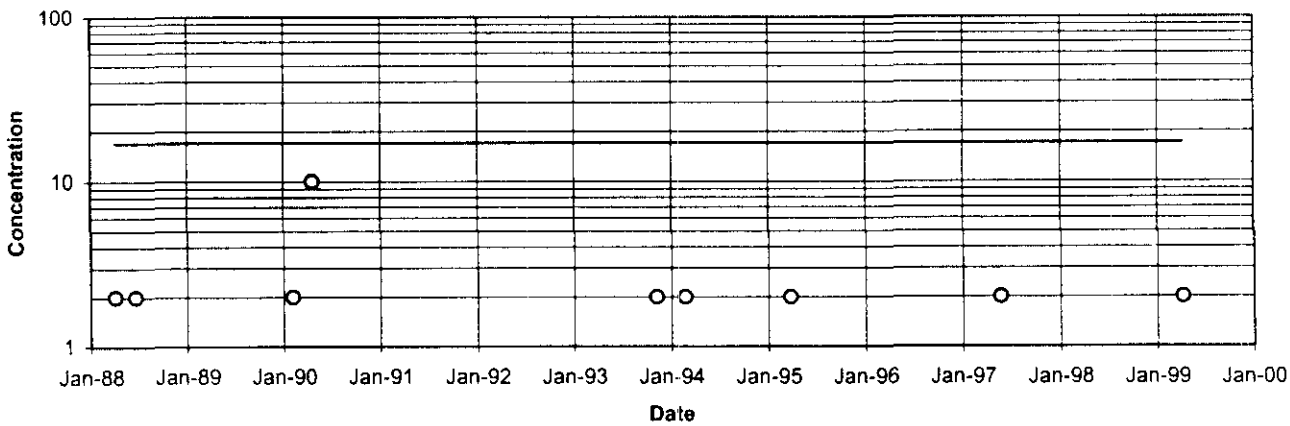
G115



G116



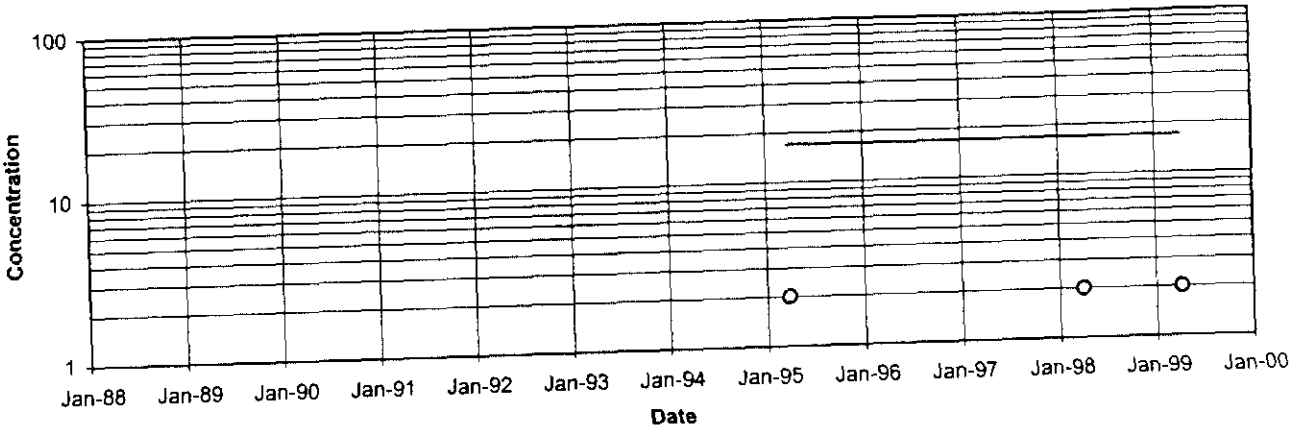
G116A



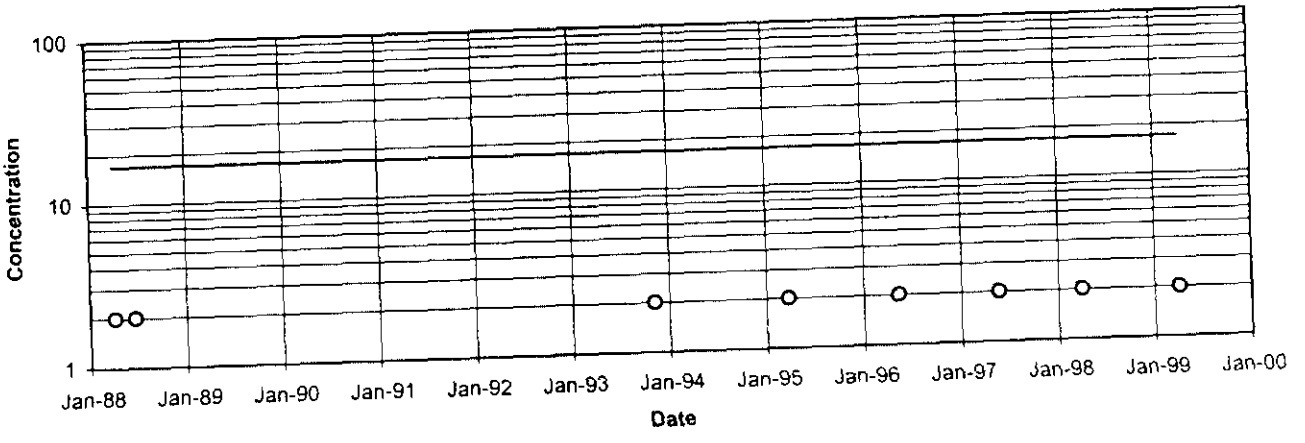
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

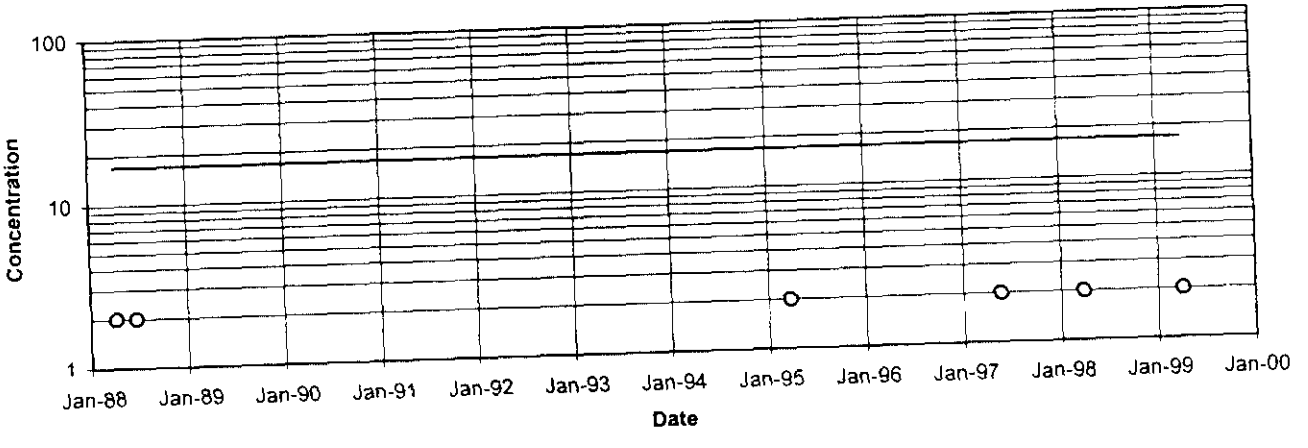
G116D



G117



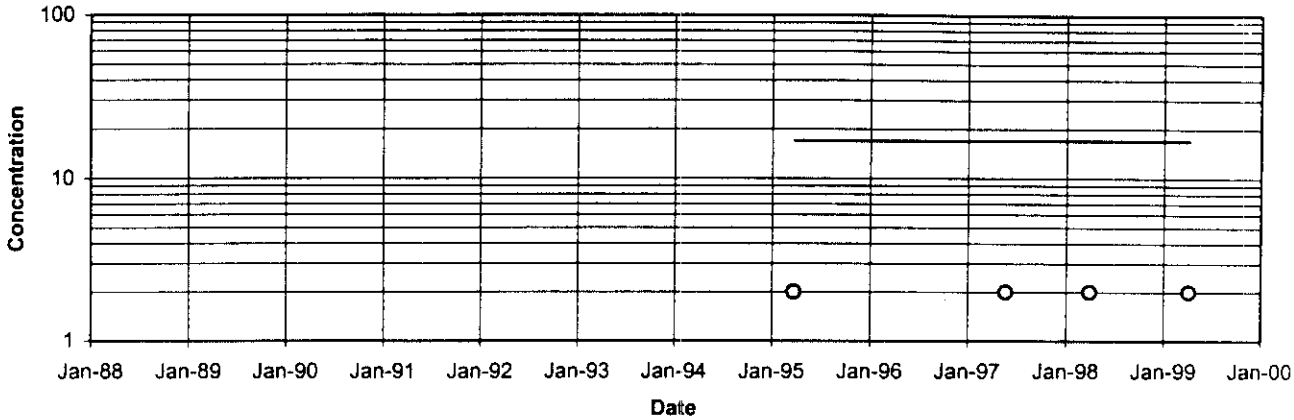
G118A



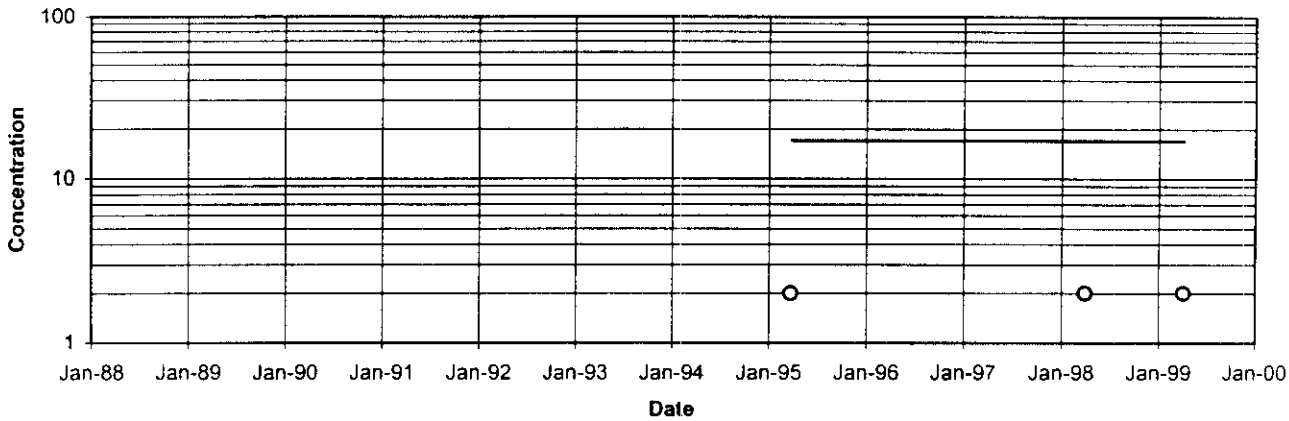
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

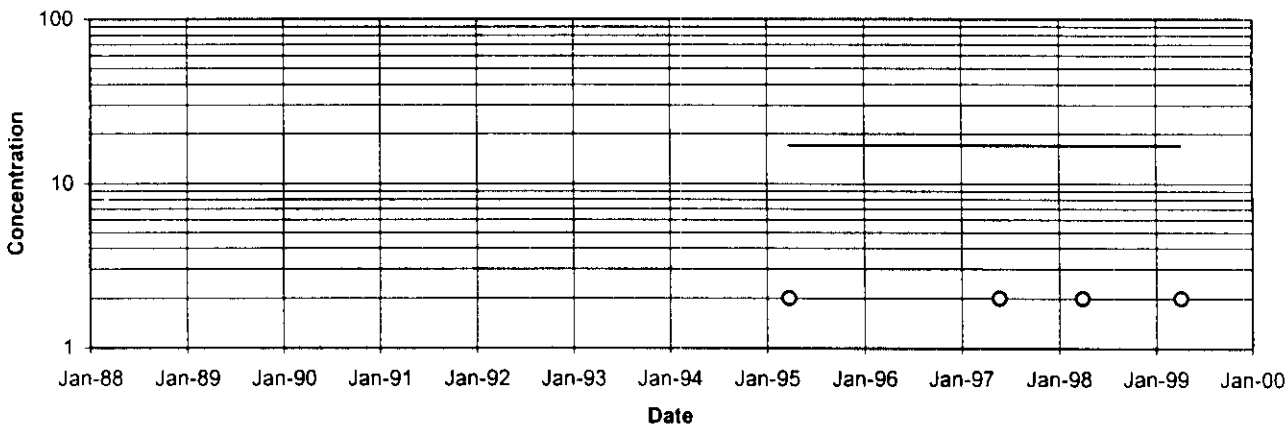
G33D



G33S



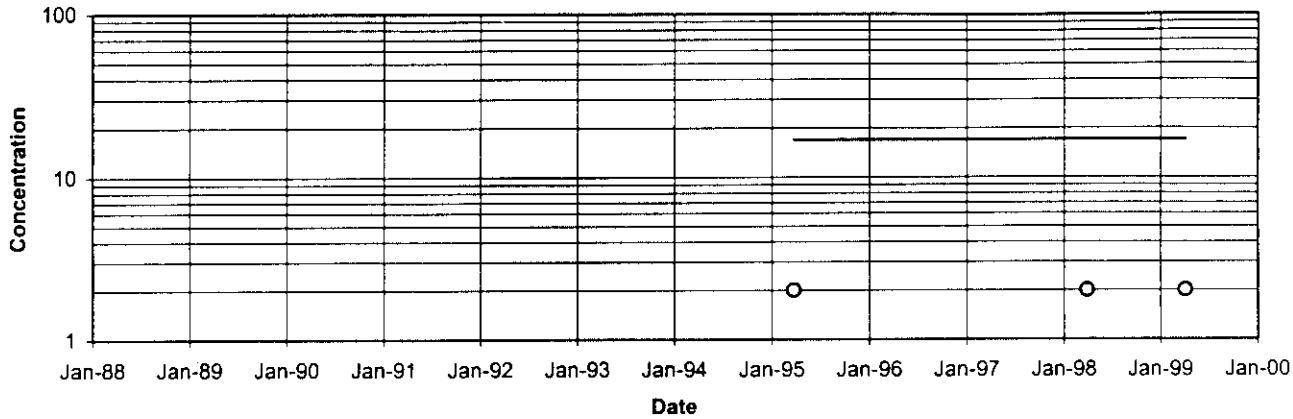
G34D



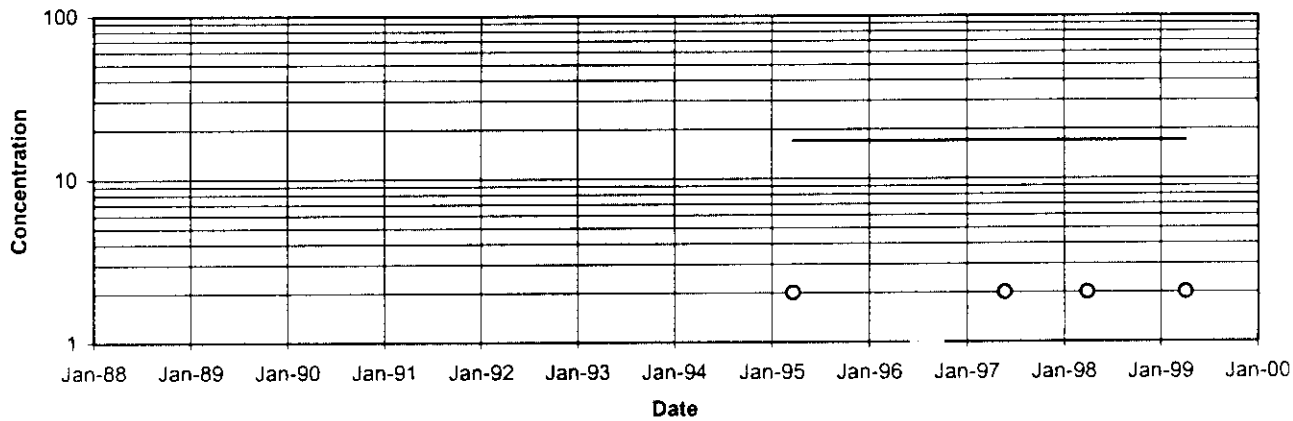
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

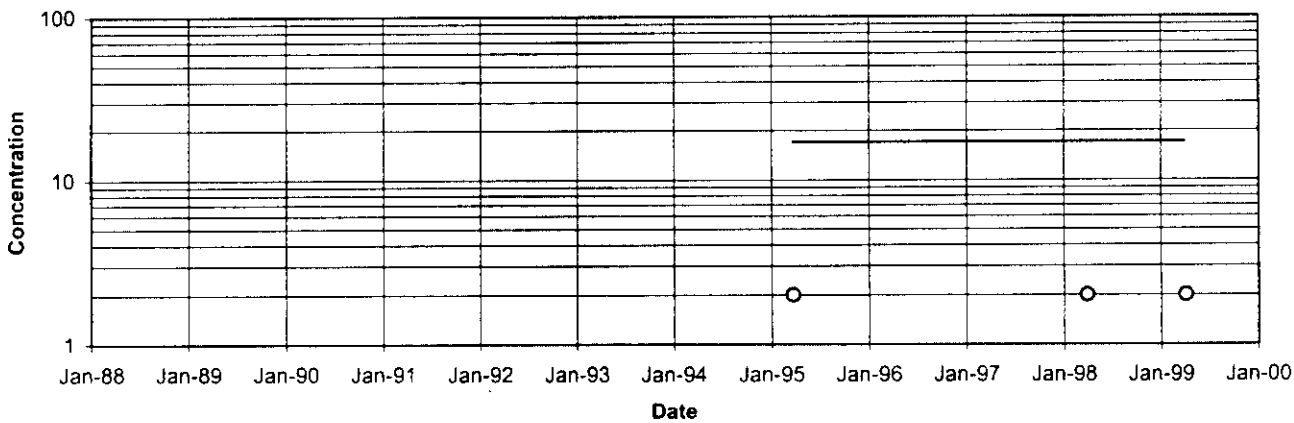
G34S



G35D



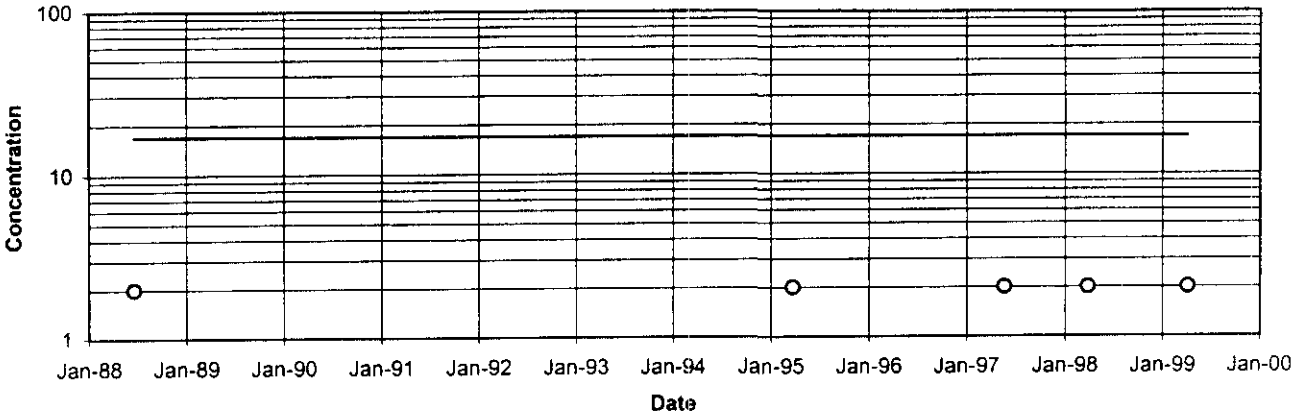
G35S



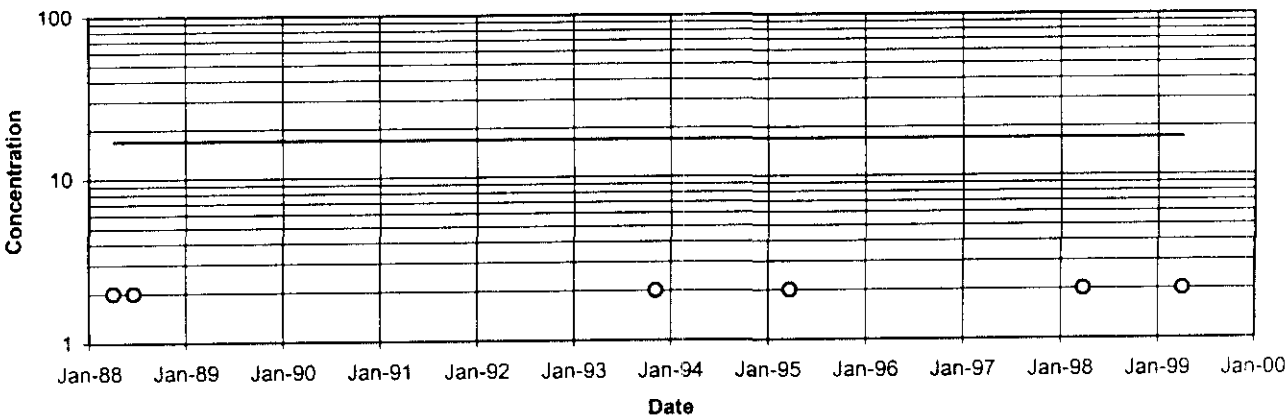
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

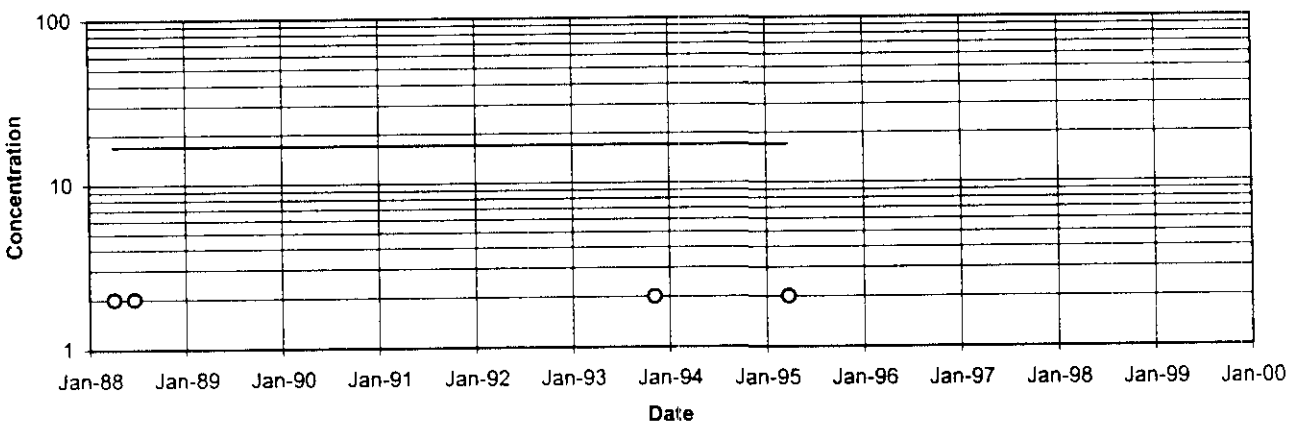
G118R



G119



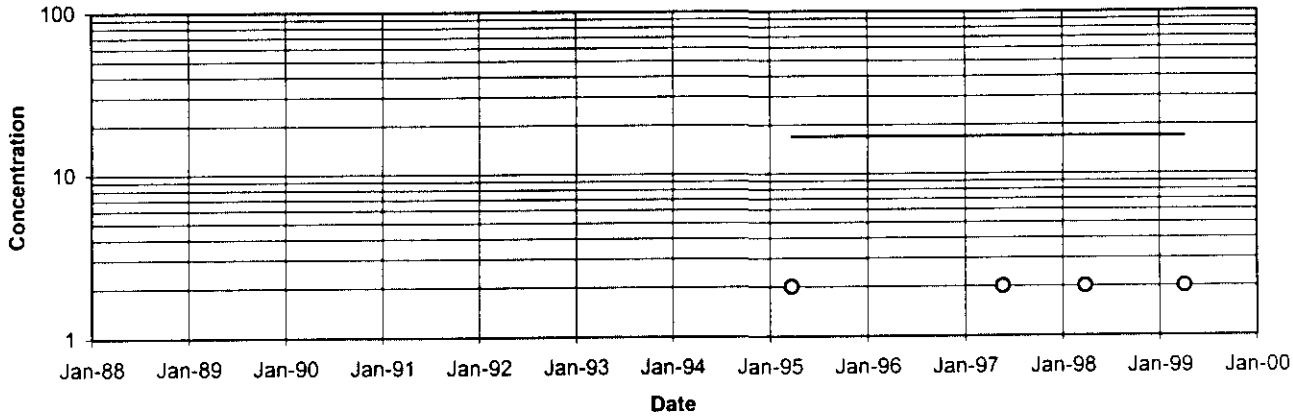
G119A



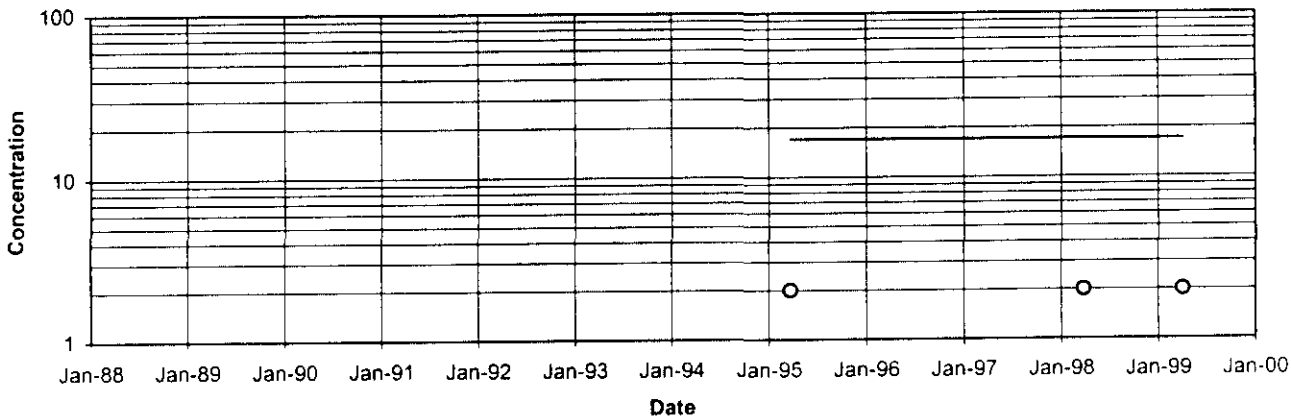
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

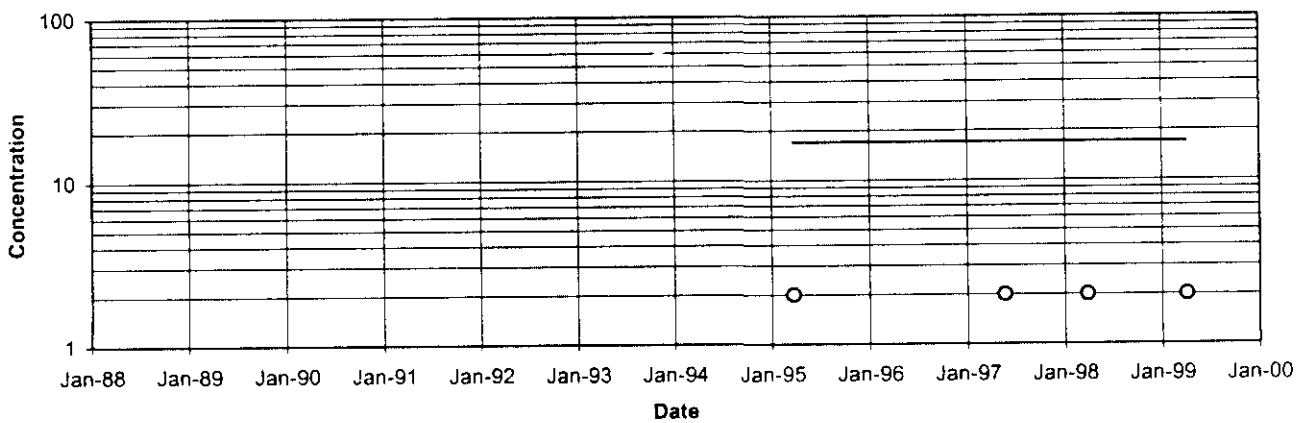
G36



G37D



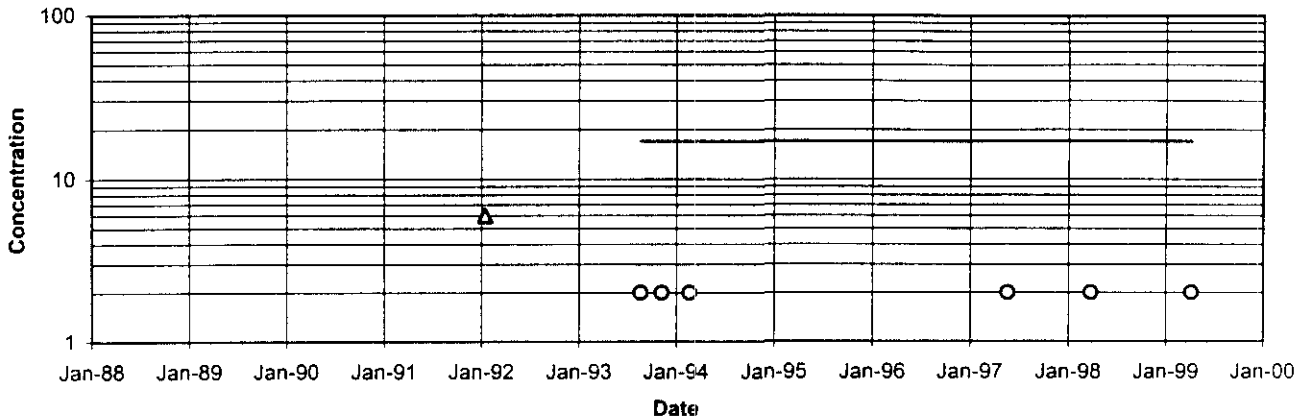
G37S



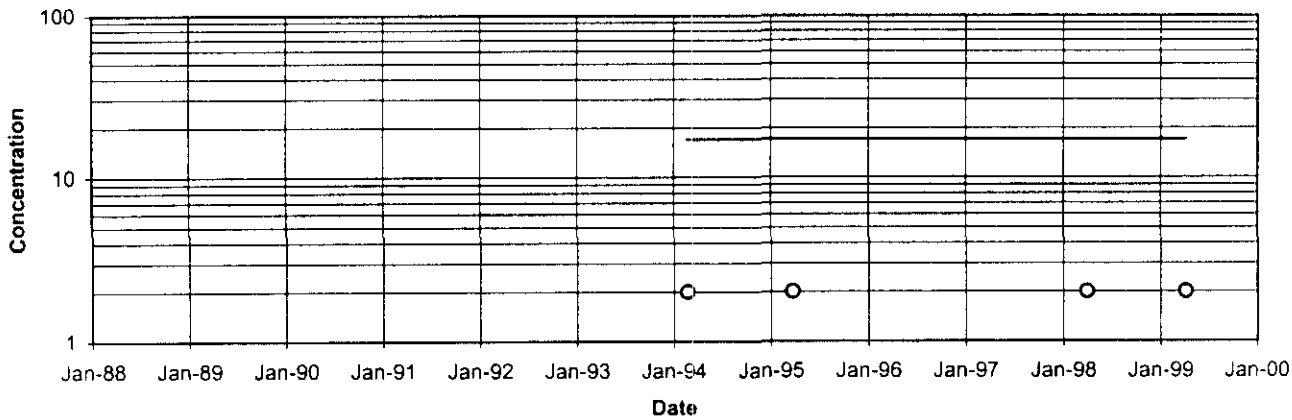
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

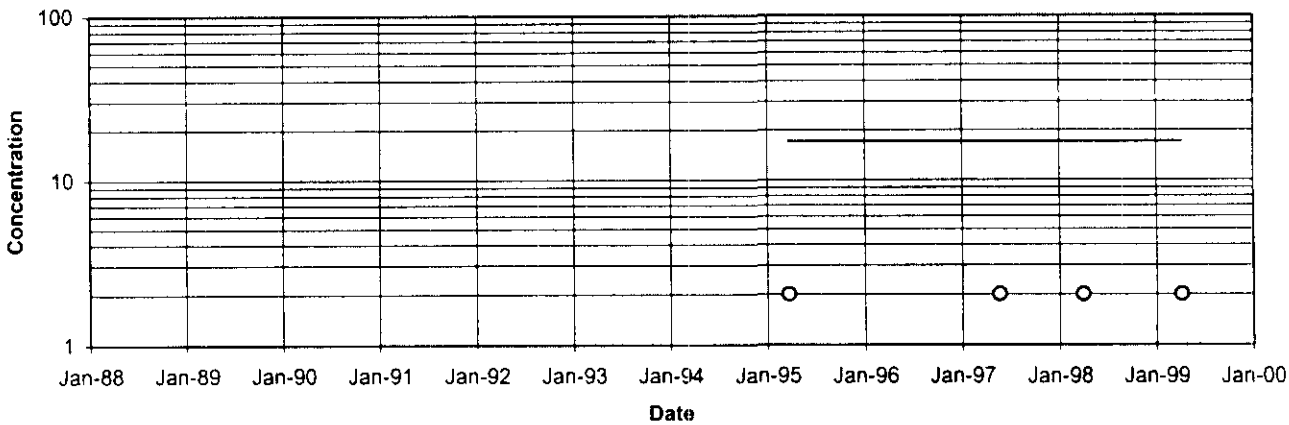
G120B



G130



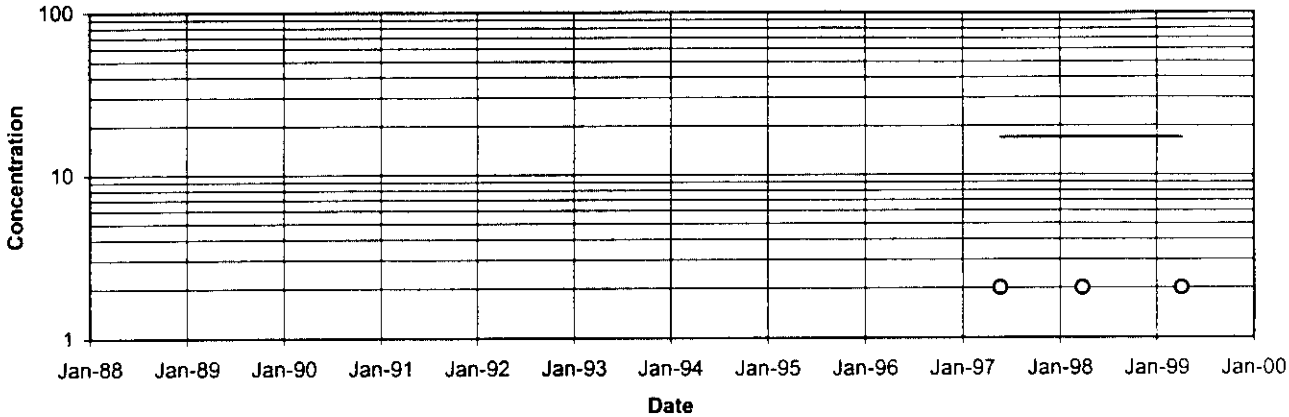
G132



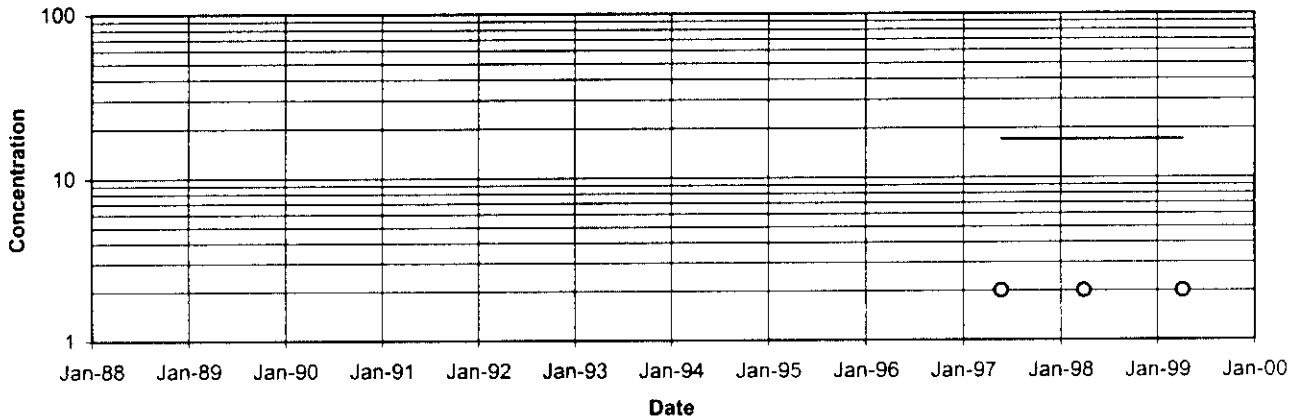
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

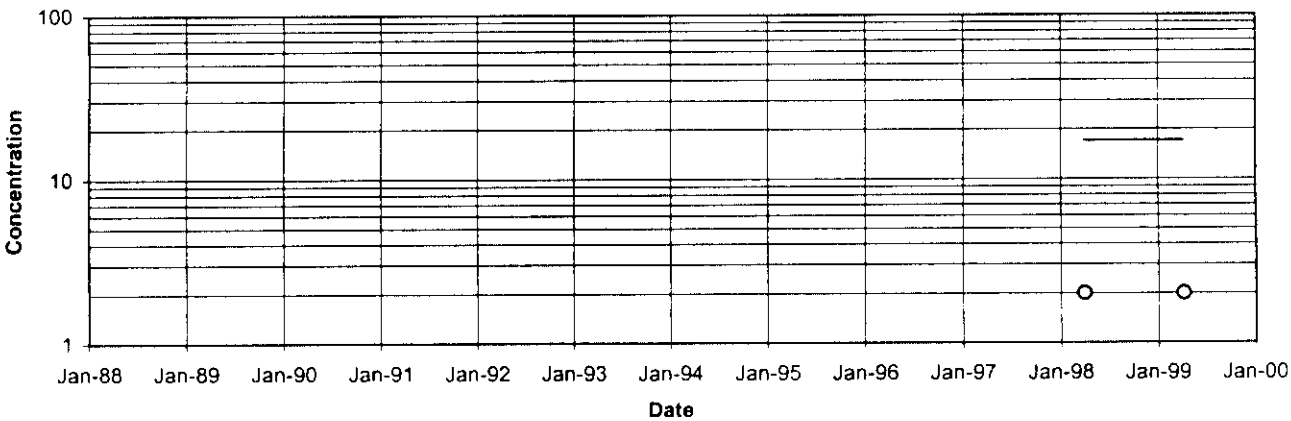
G38



G39



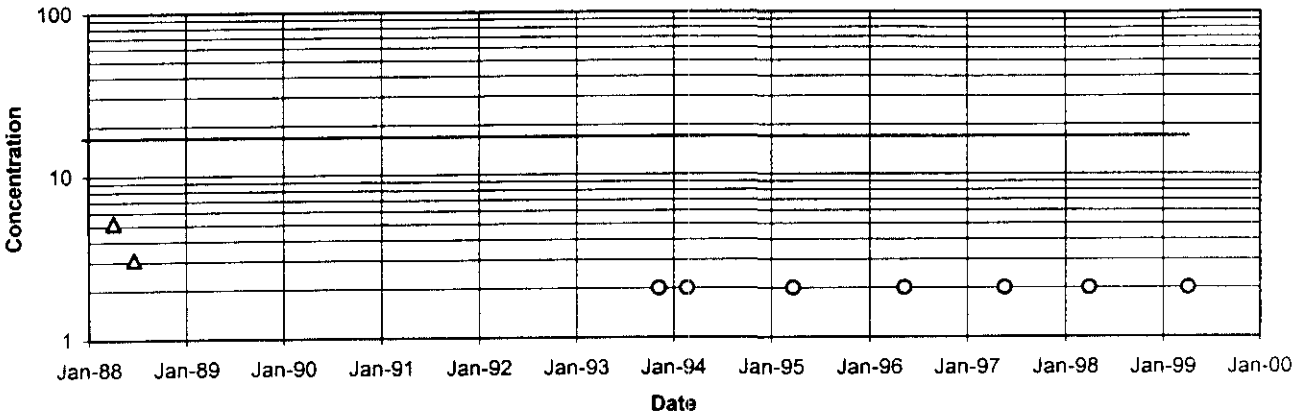
G40



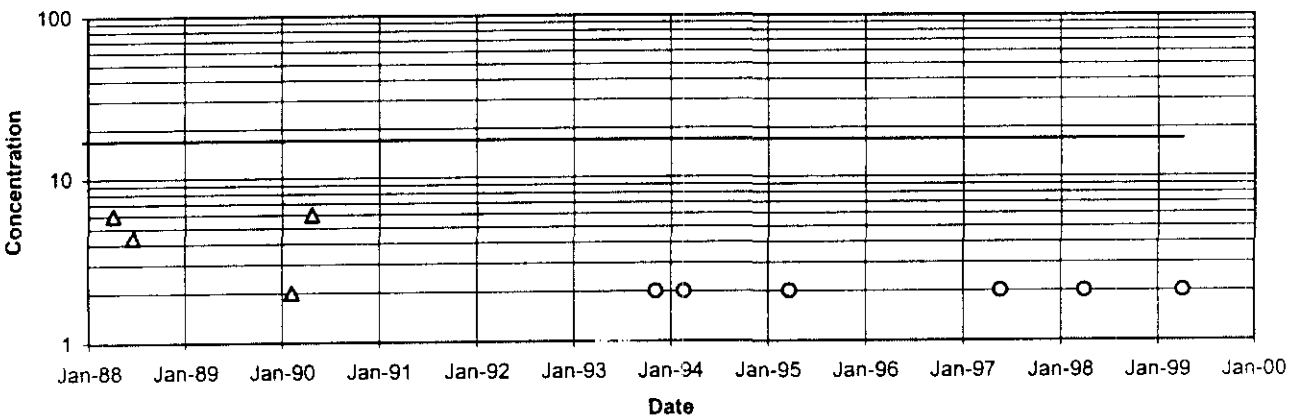
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

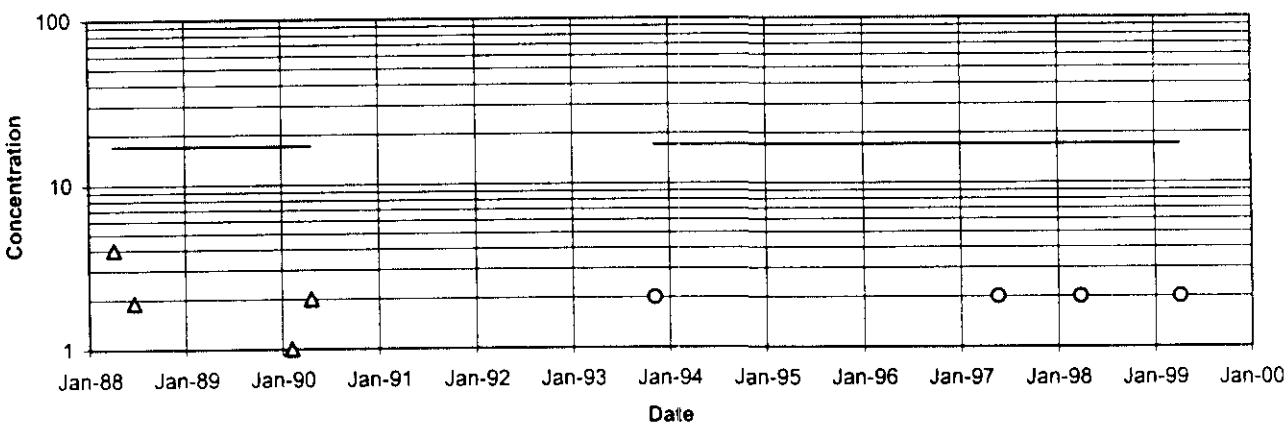
MW106



P1



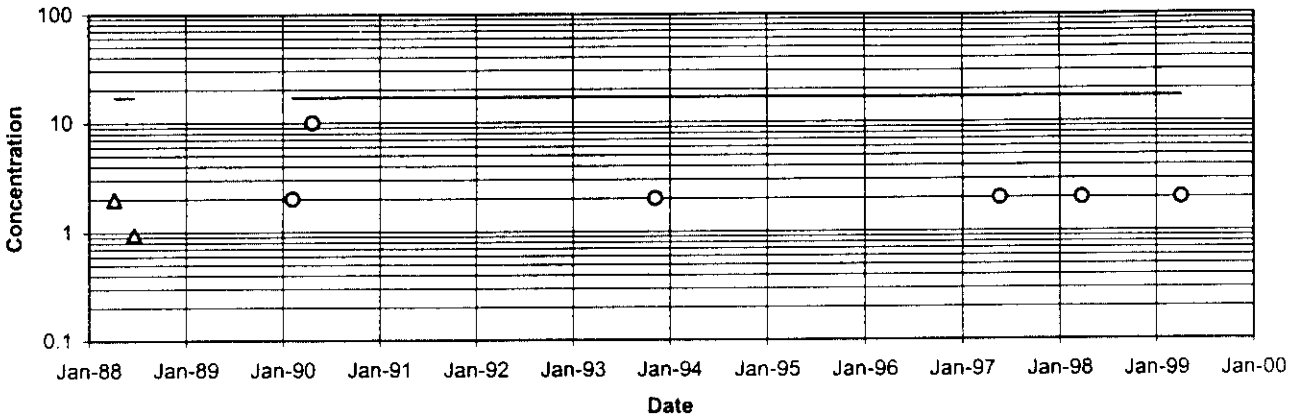
P3R



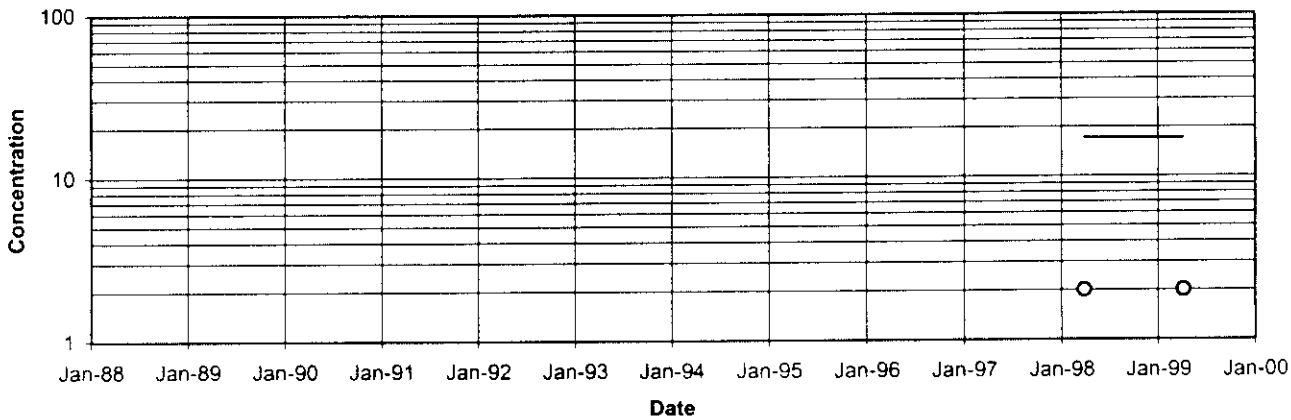
Vinyl Chloride (ug/L)

AGQS Δ Concentration O NonDetect

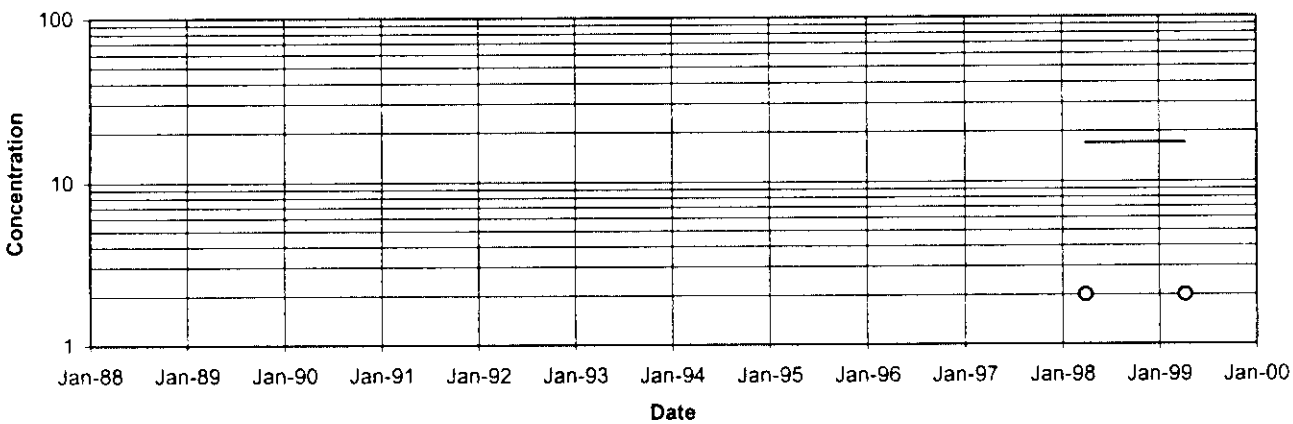
P4R



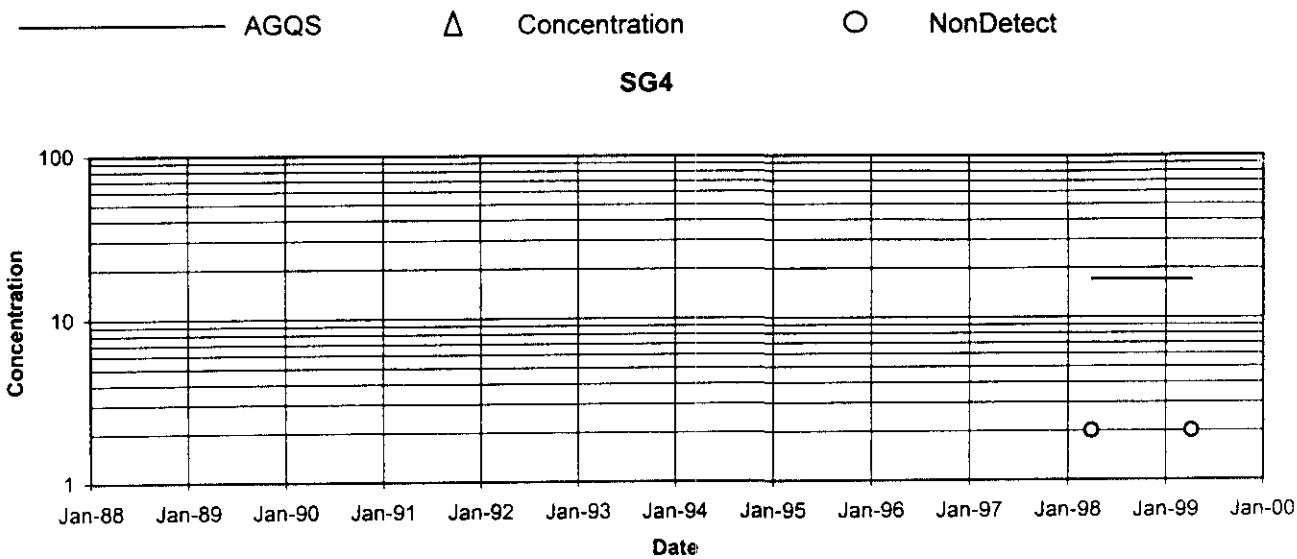
SG1



SG3



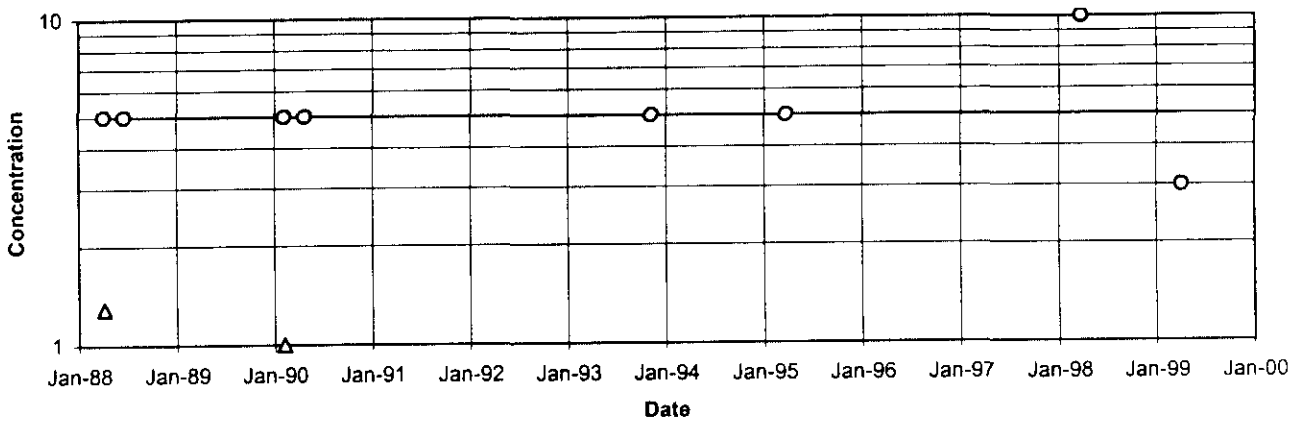
Vinyl Chloride (ug/L)



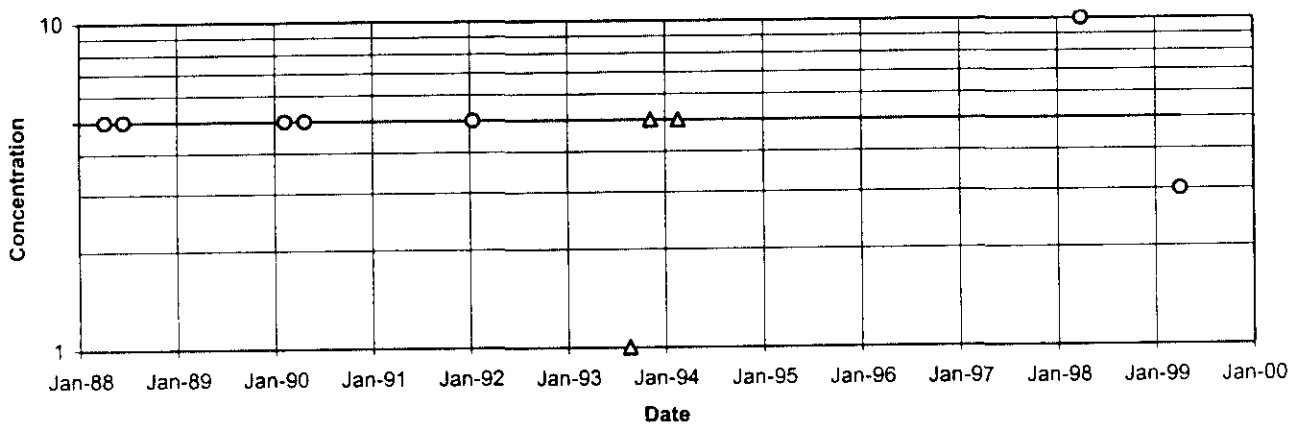
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

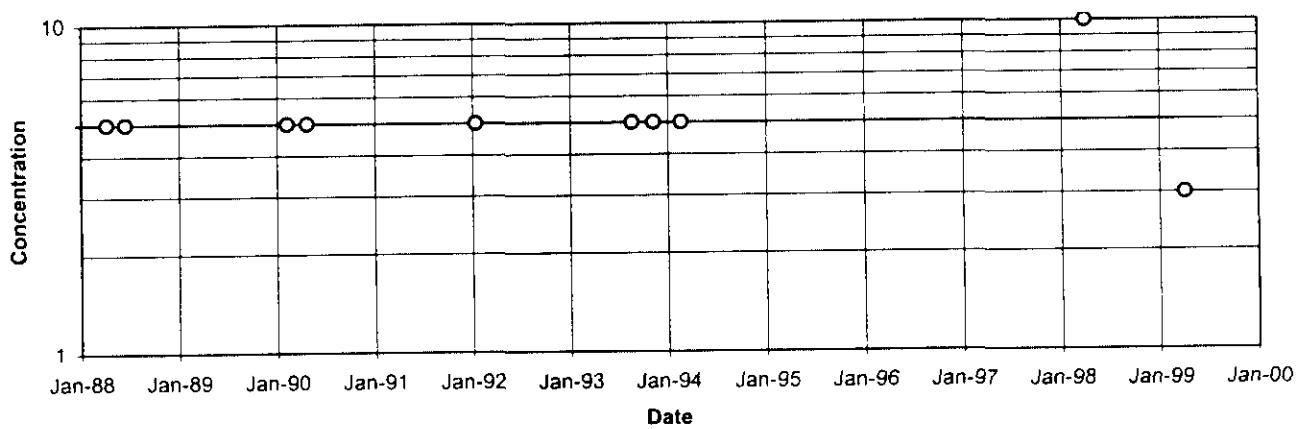
B15R



G109



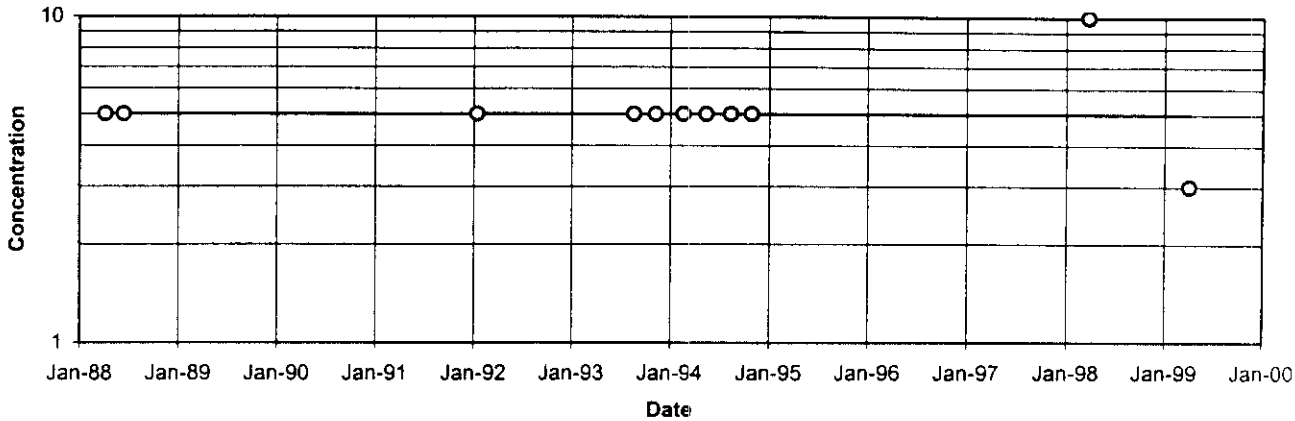
G109A



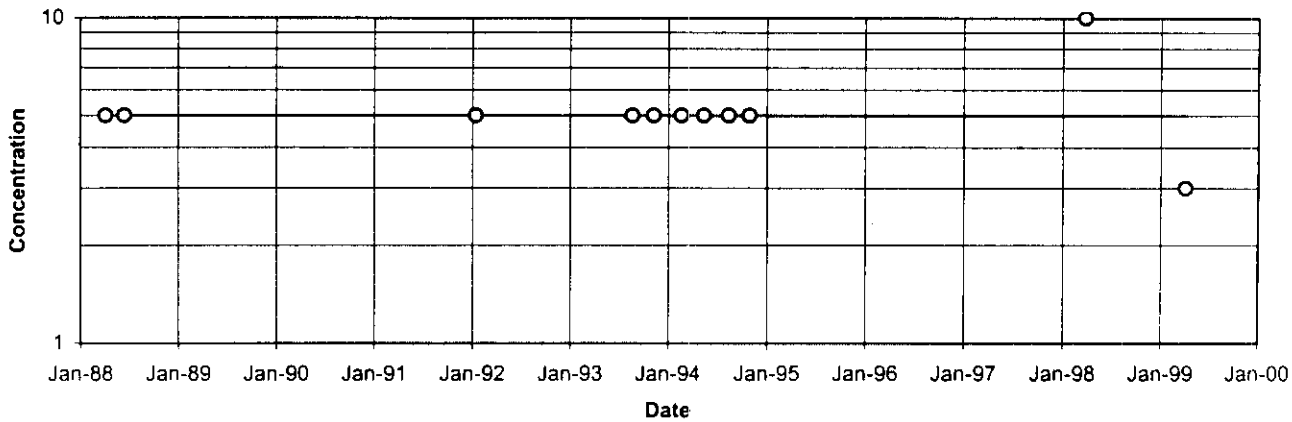
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

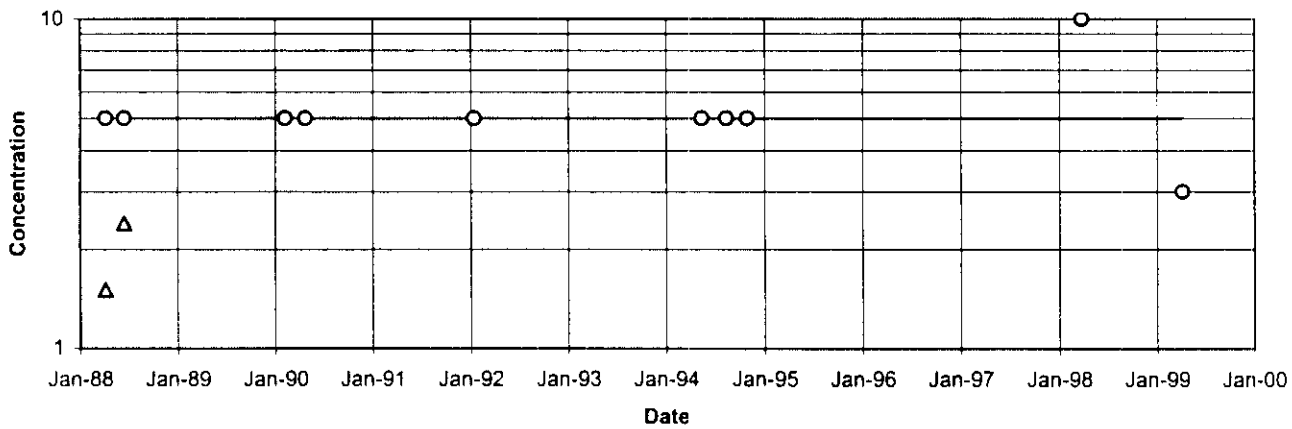
G113



G113A



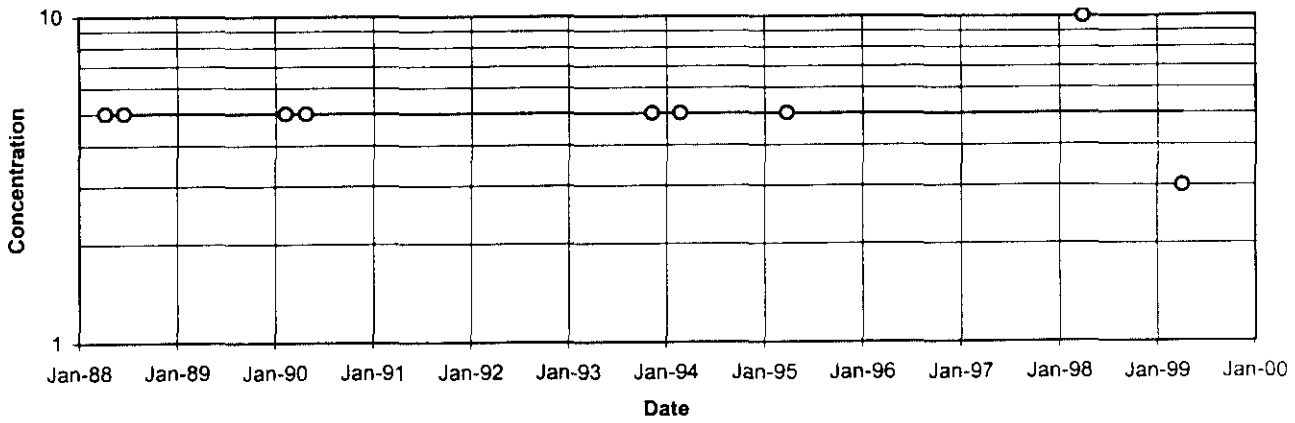
G114



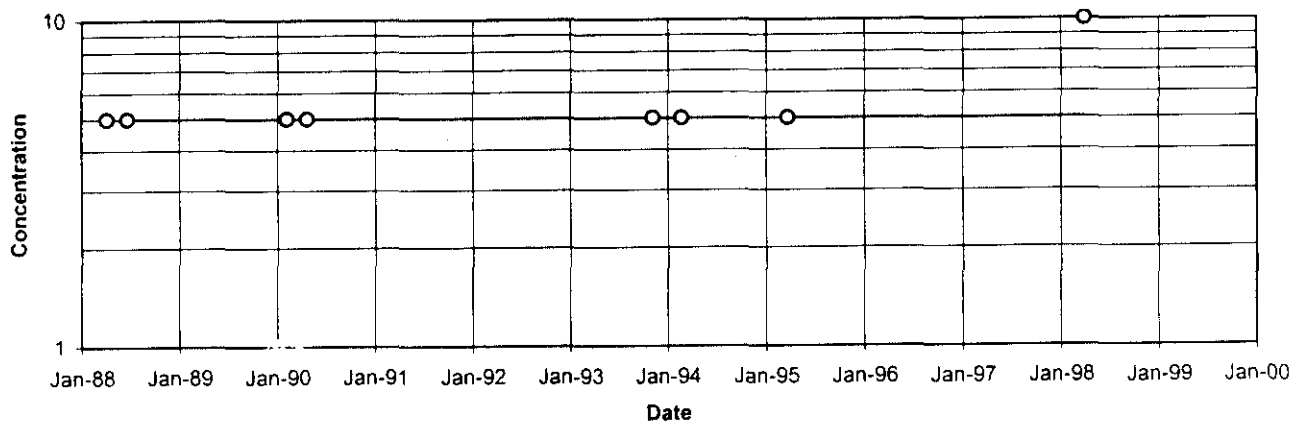
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

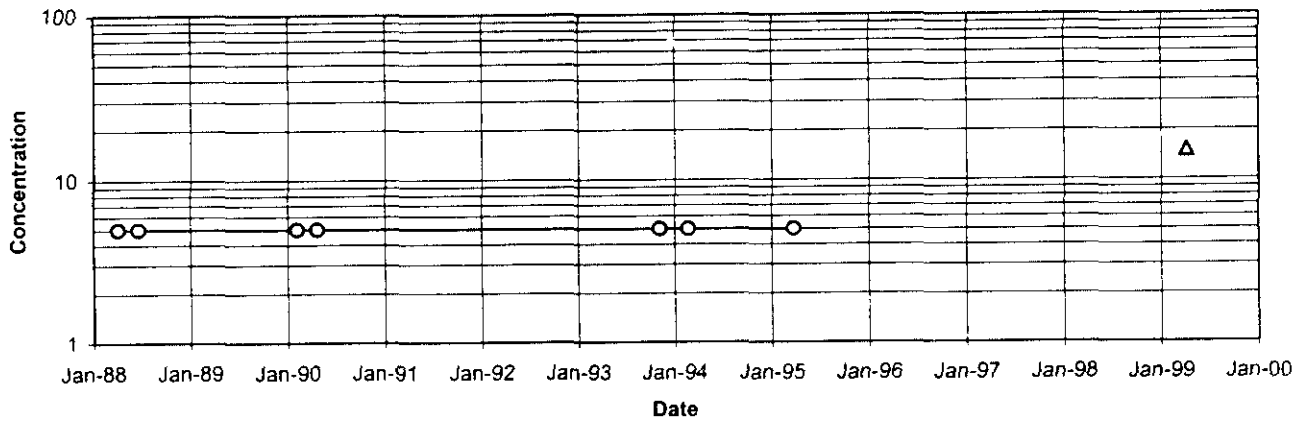
G115



G116



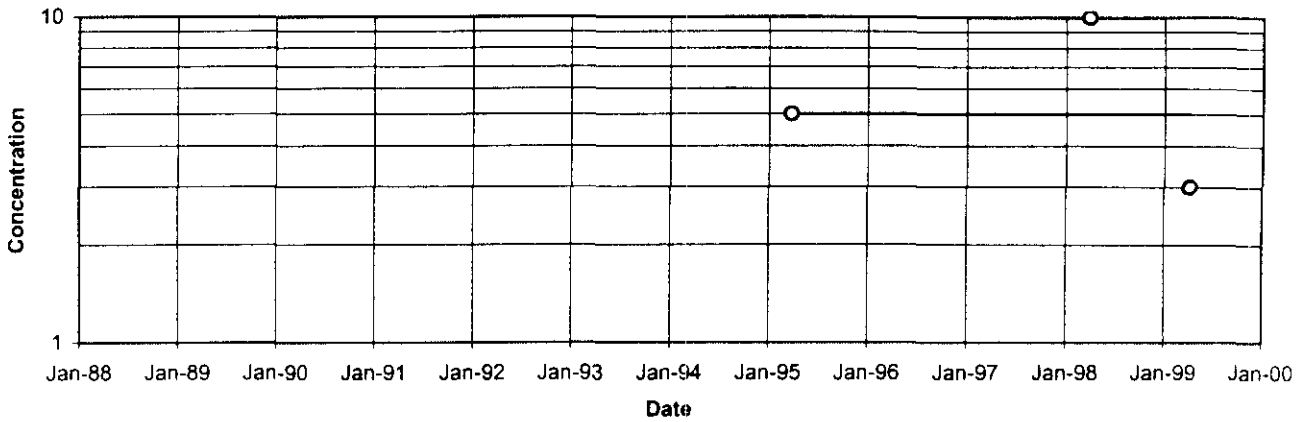
G116A



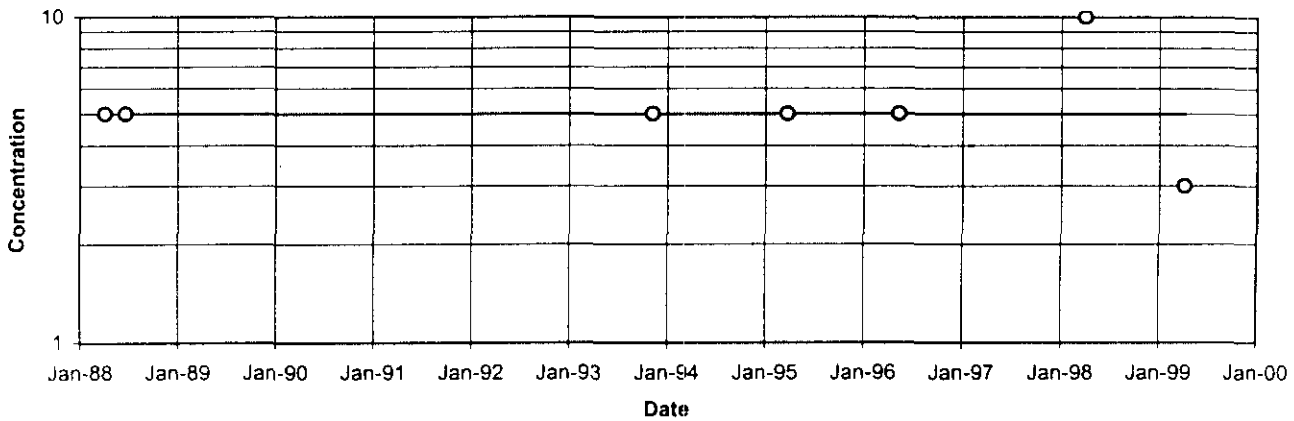
Xylenes (total) (ug/L)

AGQS Δ Concentration ○ NonDetect

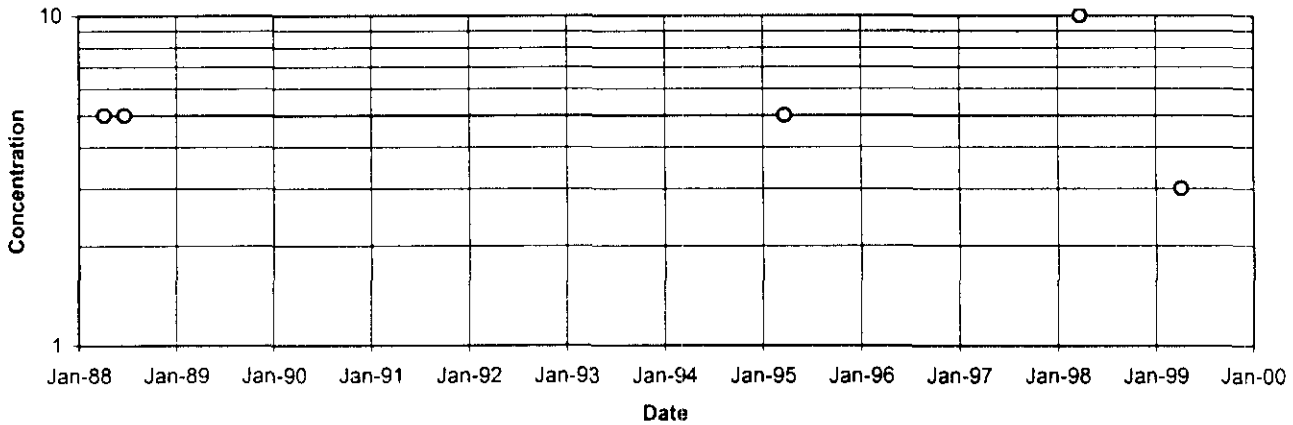
G116D



G117



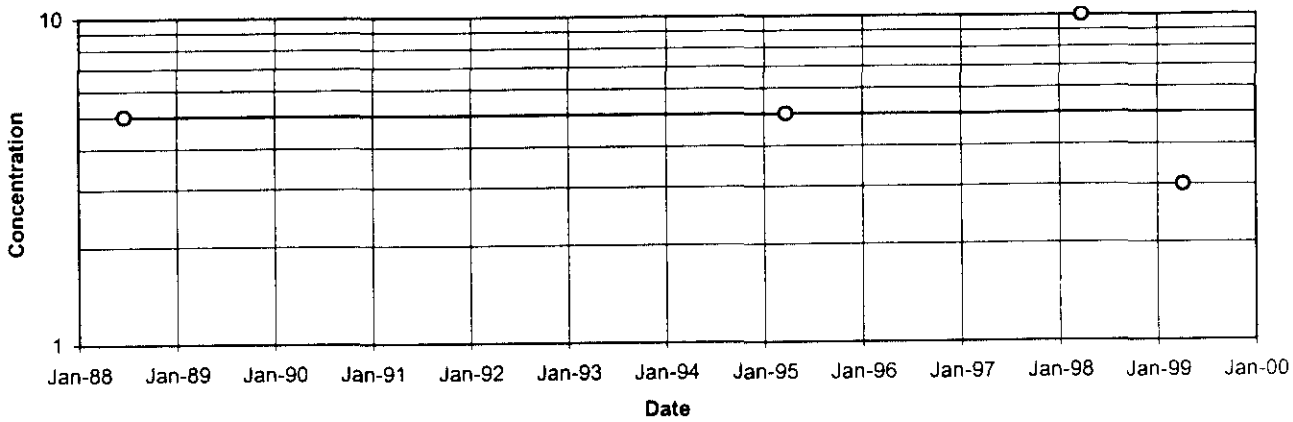
G118A



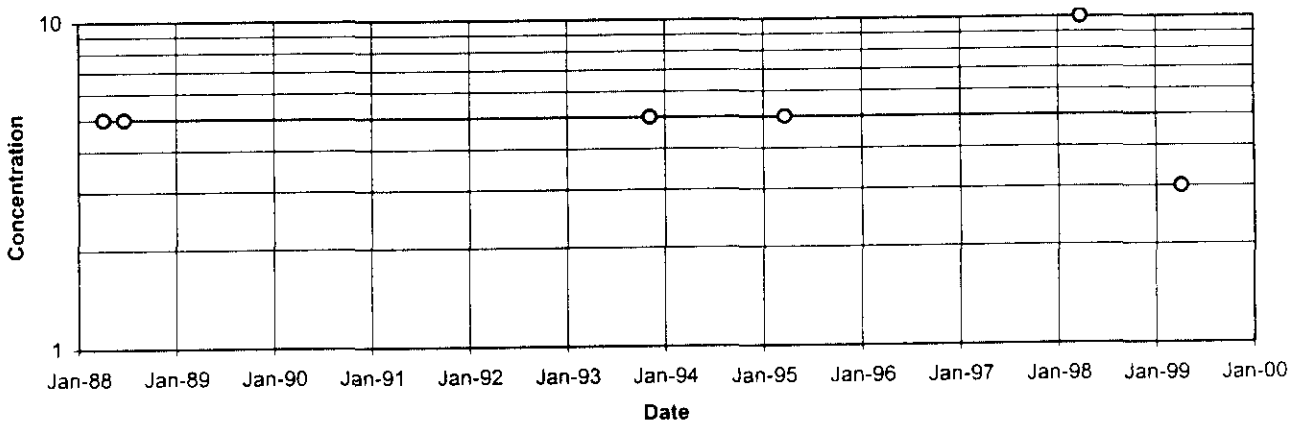
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

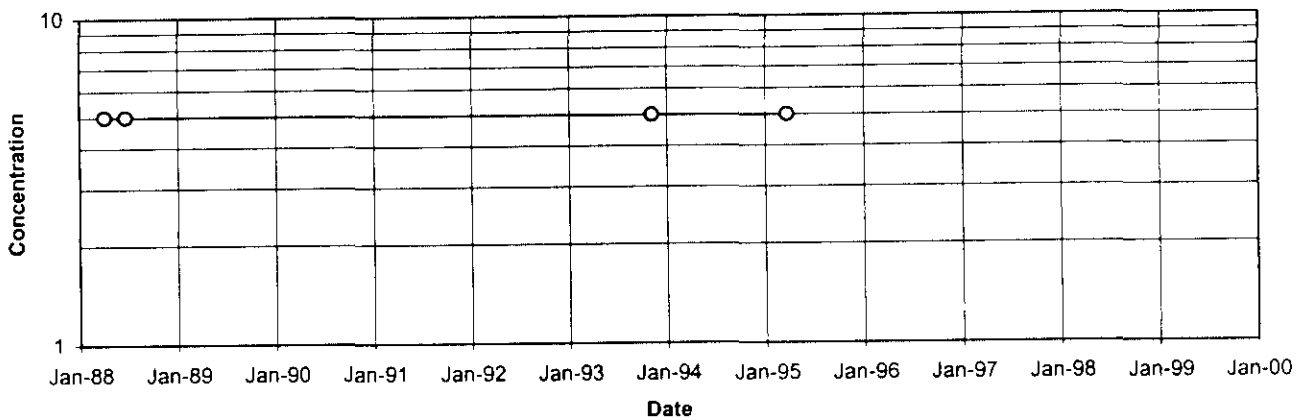
G118R



G119



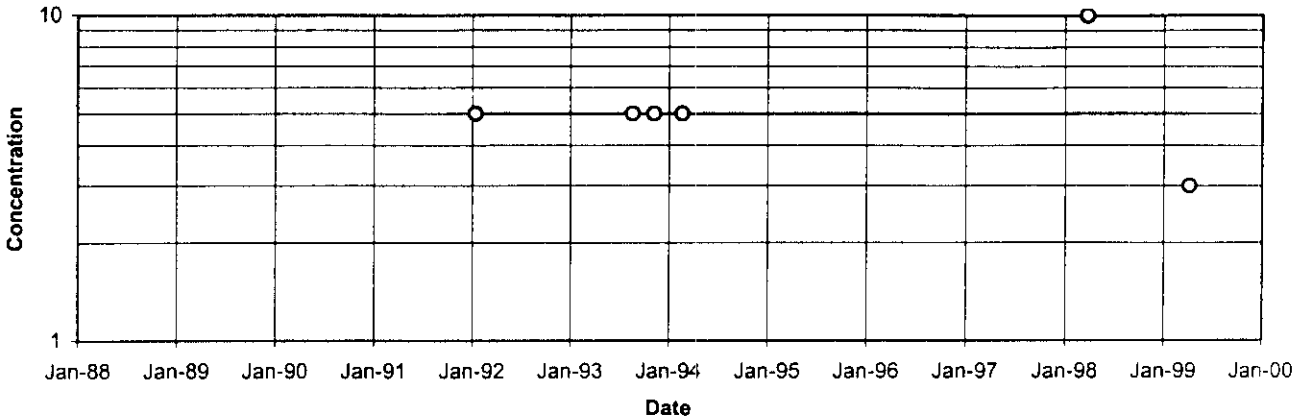
G119A



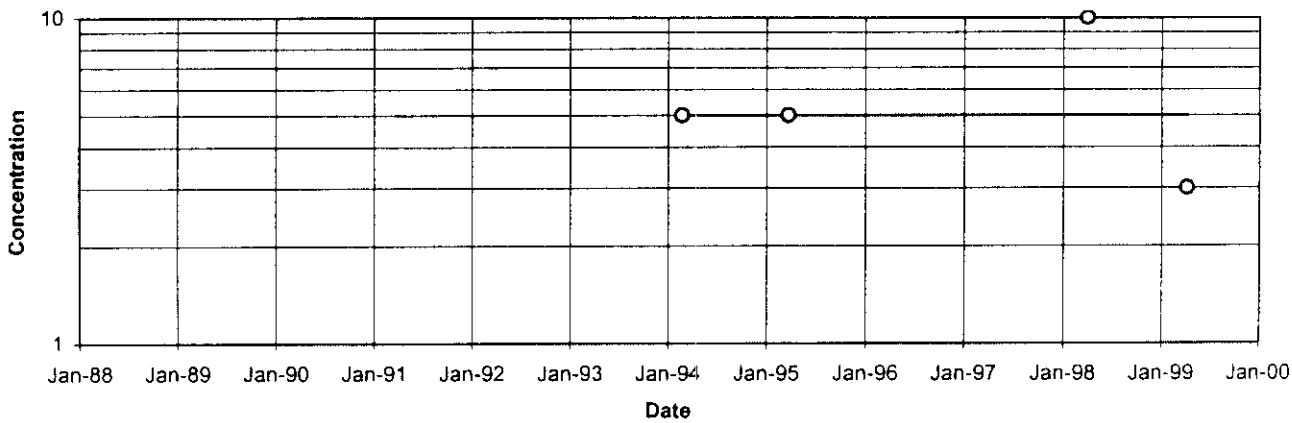
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

G120B



G130



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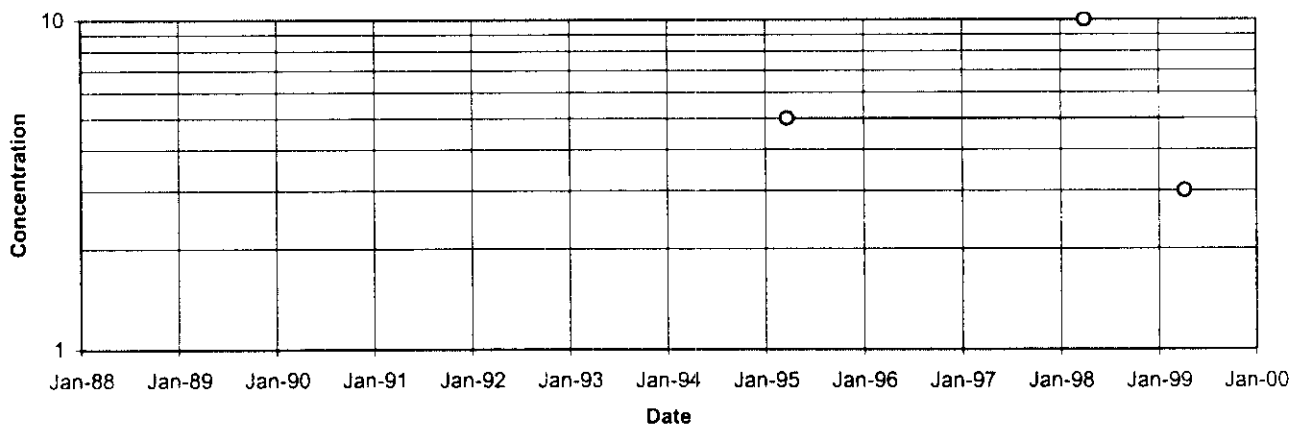
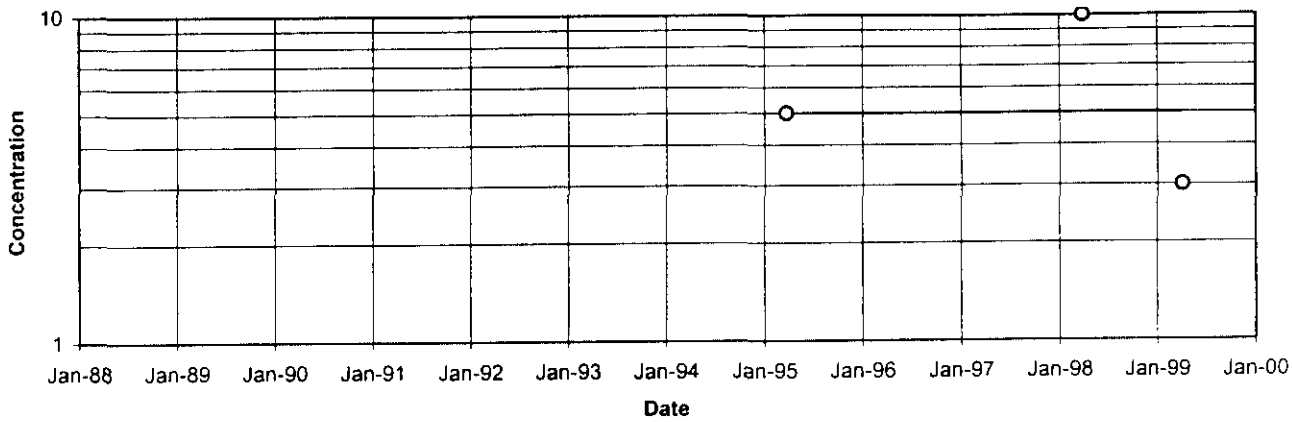


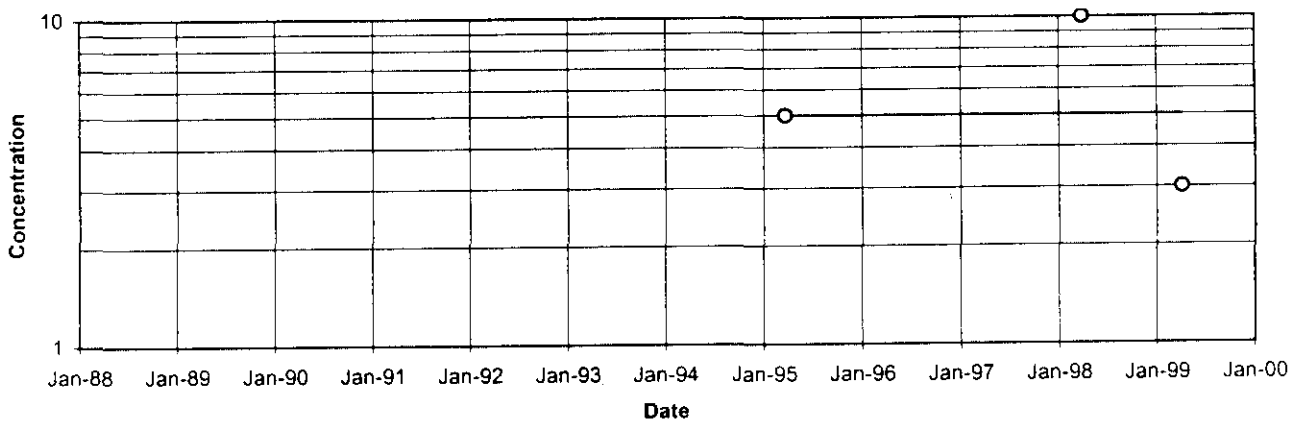
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

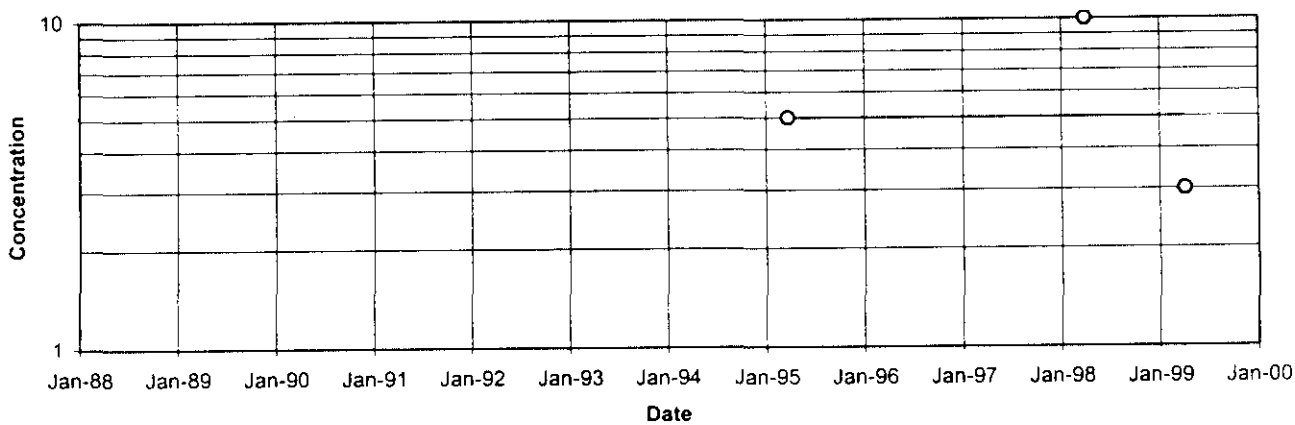
G33D



G33S



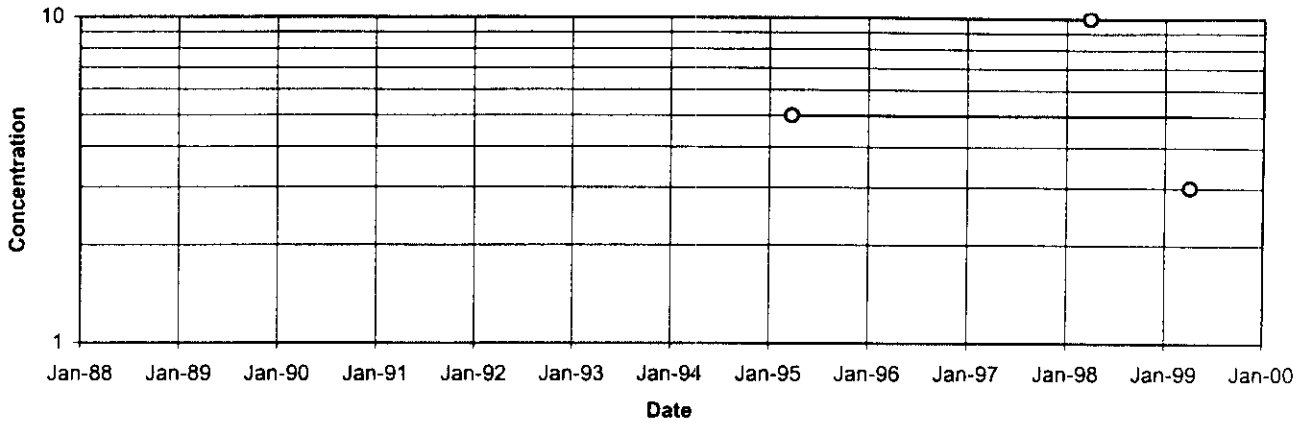
G34D



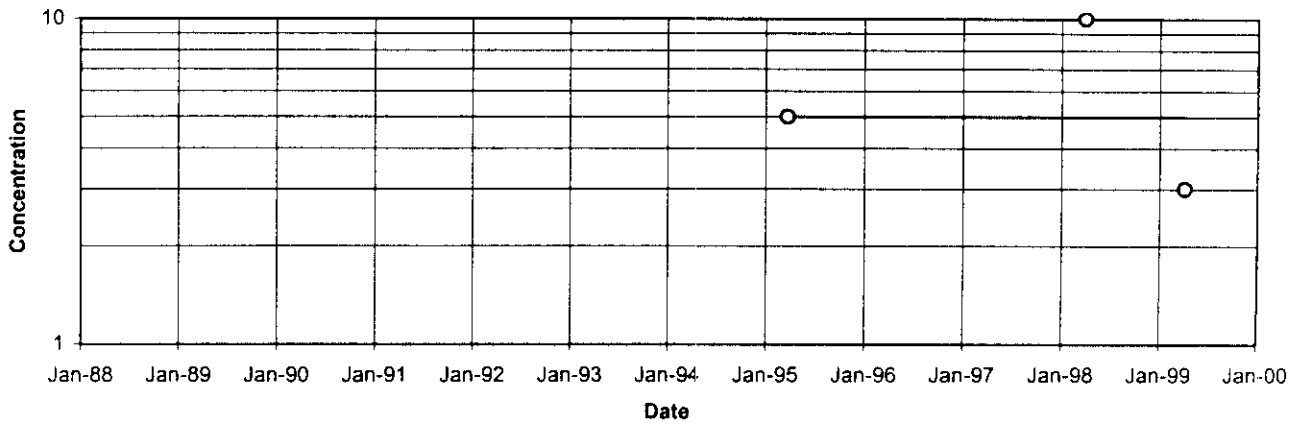
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

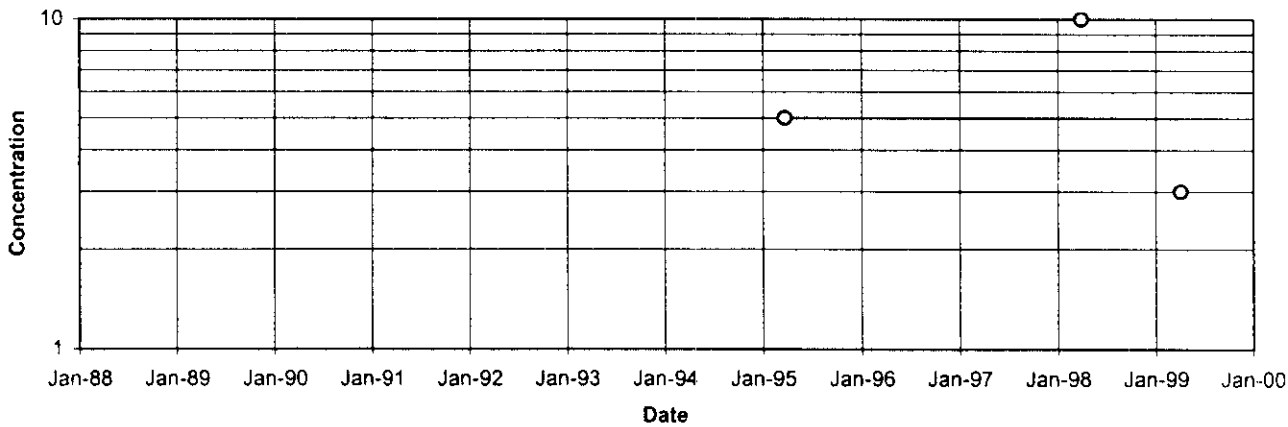
G34S



G35D



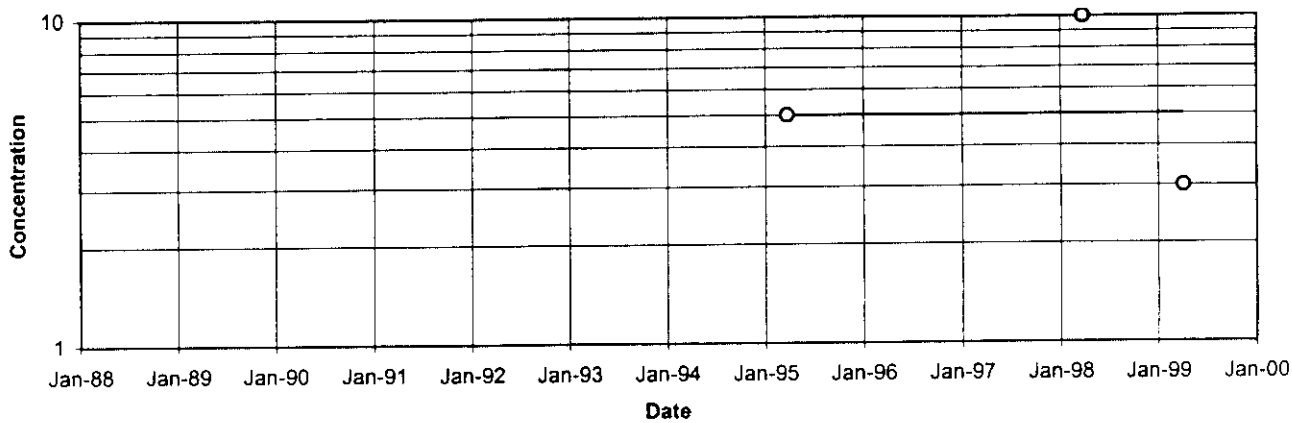
G35S



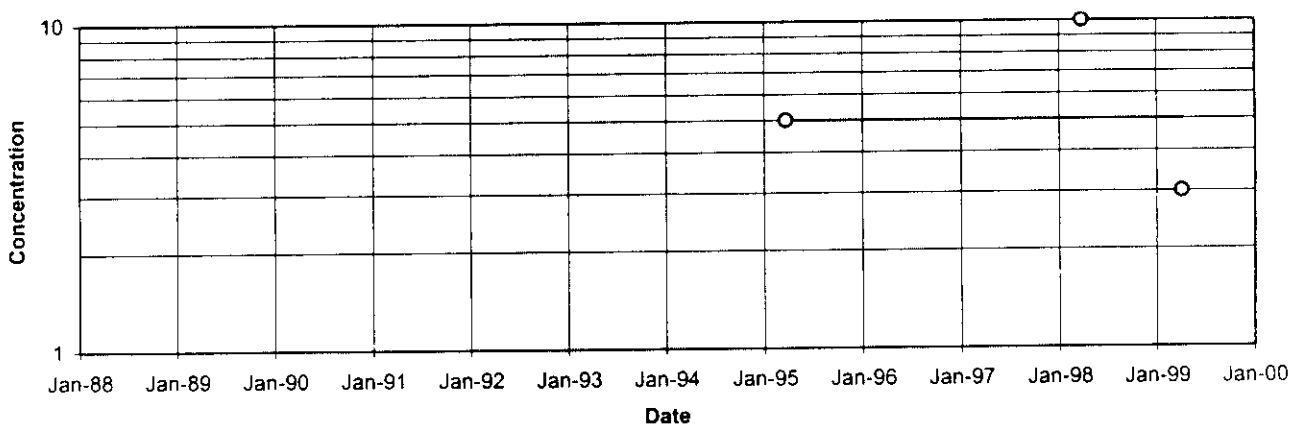
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

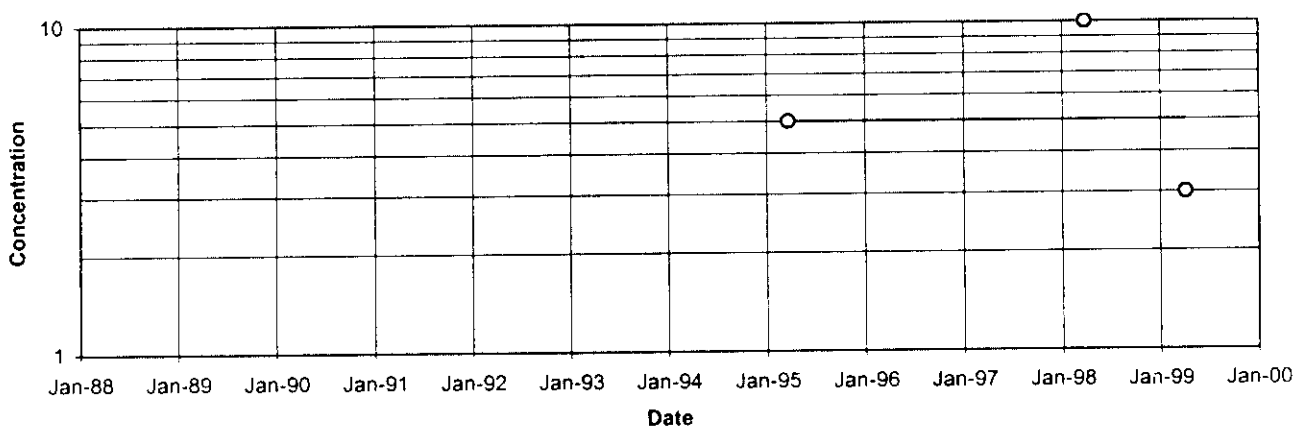
G36



G37D



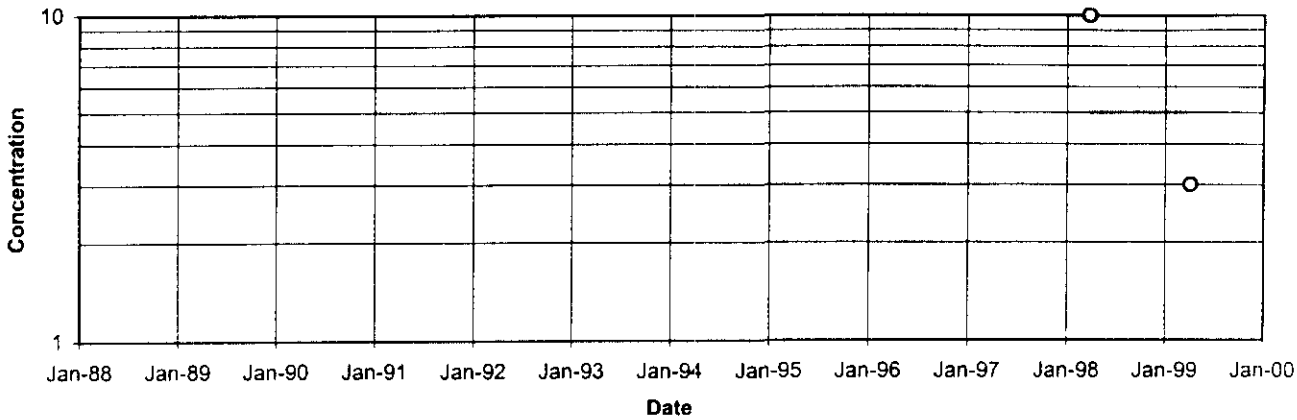
G37S



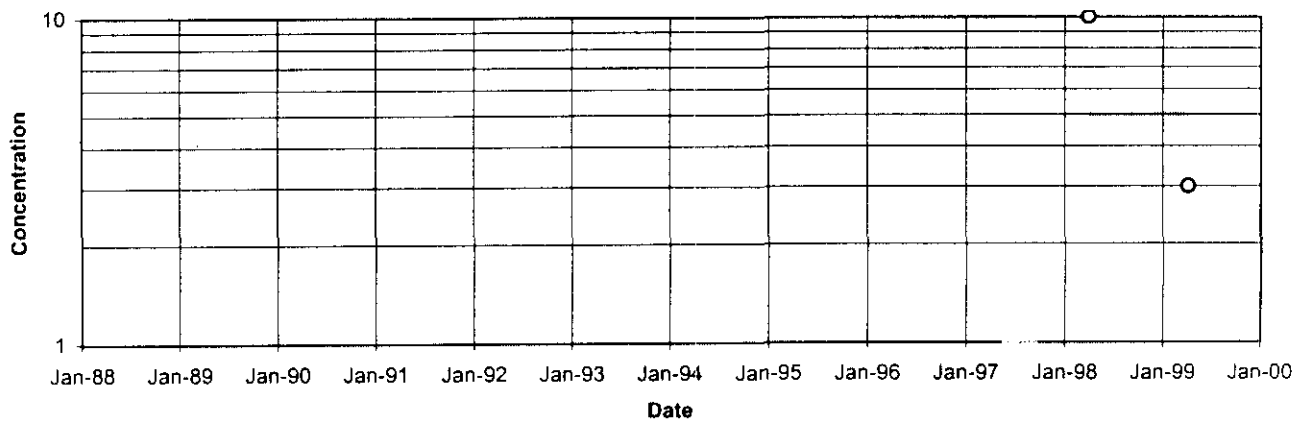
Xylenes (total) (ug/L)

AGQS Δ Concentration ○ NonDetect

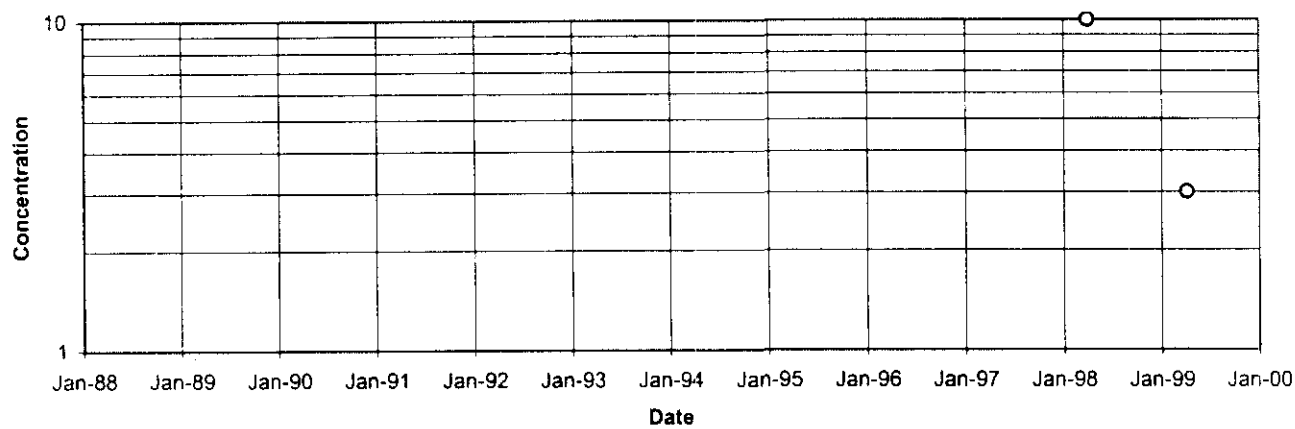
G38



G39



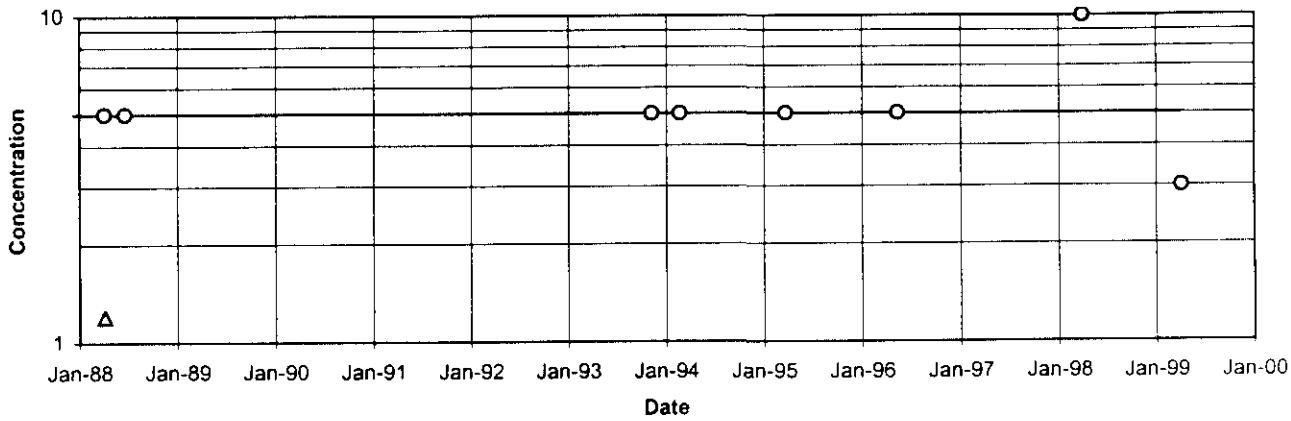
G40



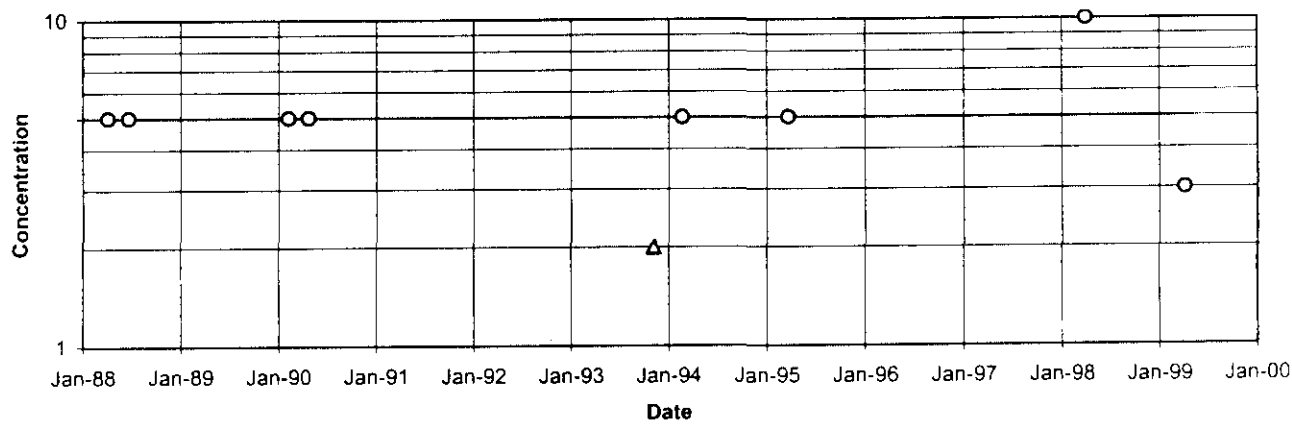
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

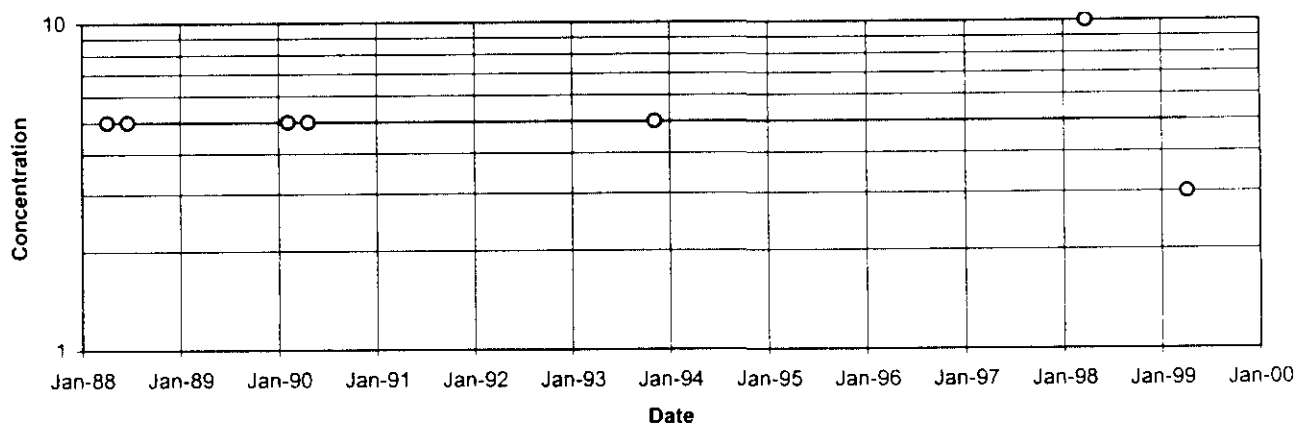
MW106



P1



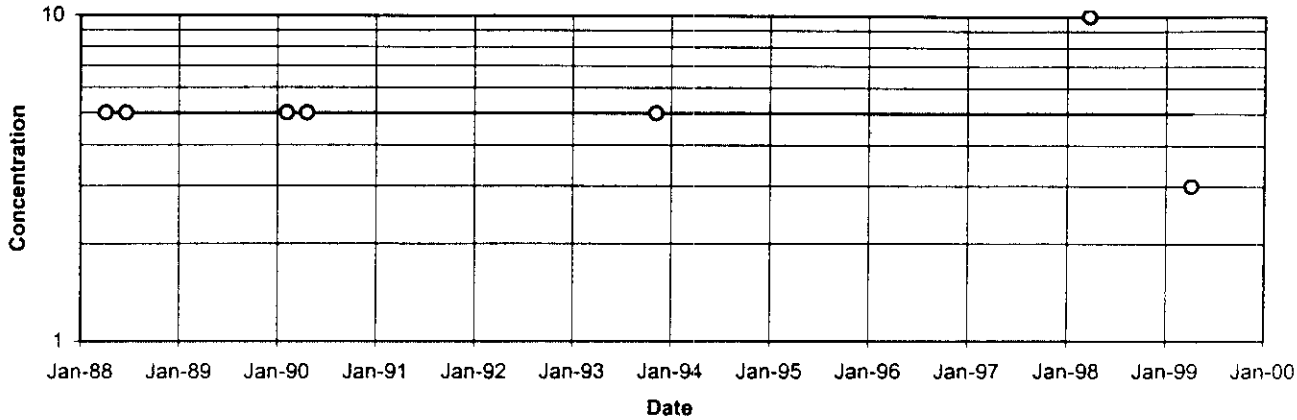
P3R



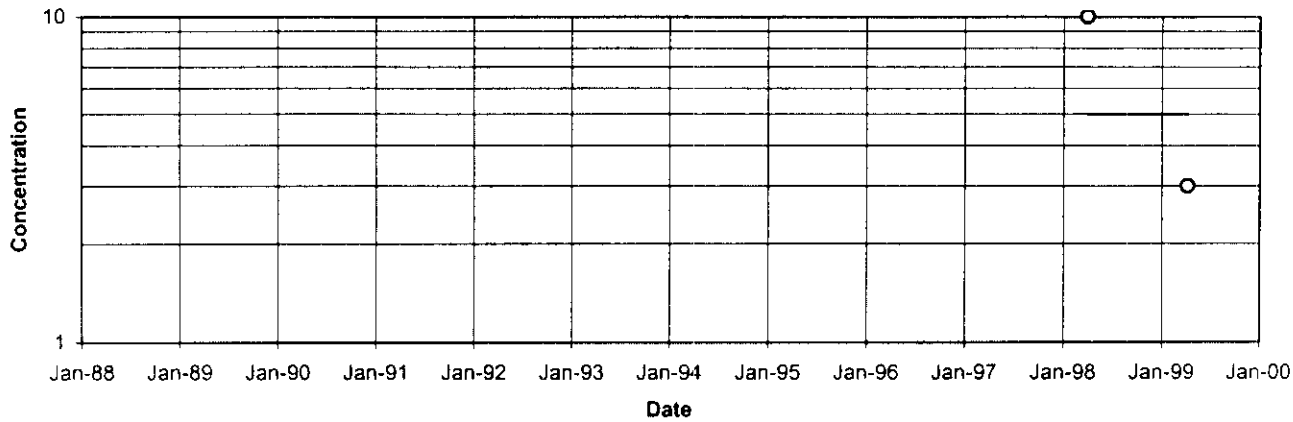
Xylenes (total) (ug/L)

AGQS Δ Concentration O NonDetect

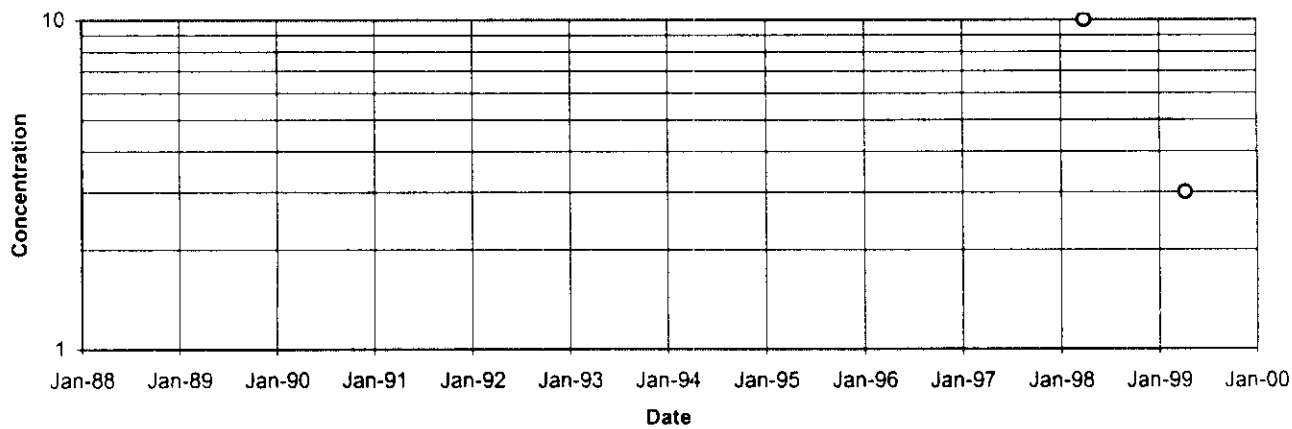
P4R

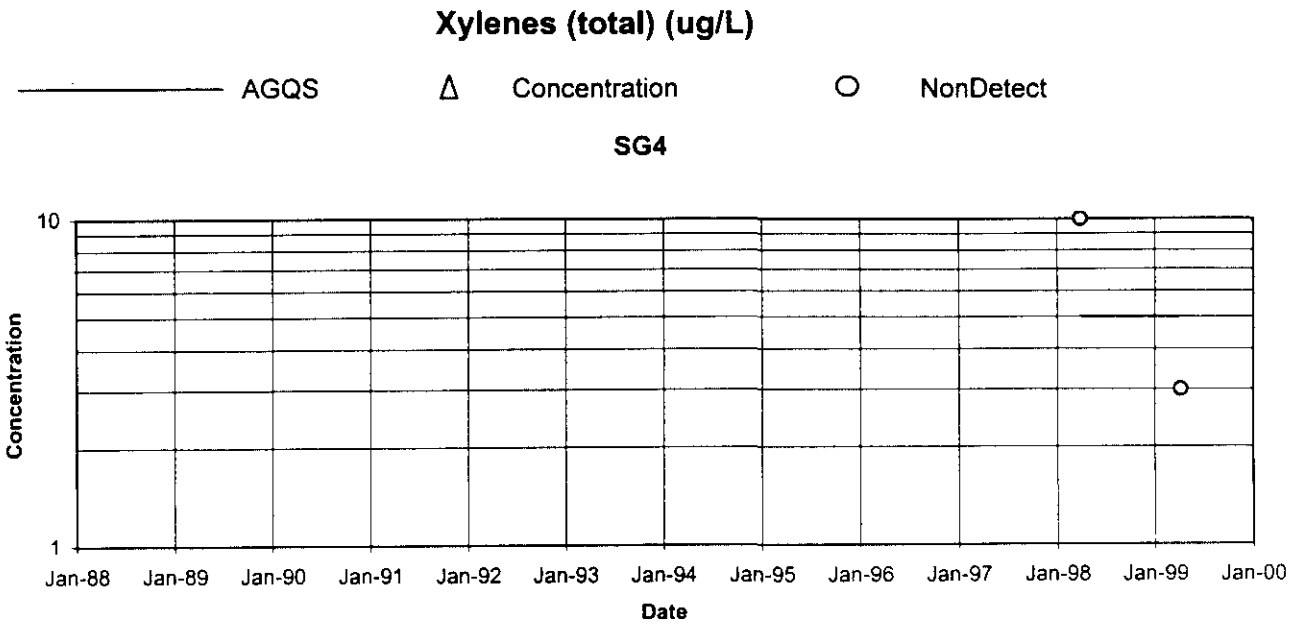


SG1



SG3

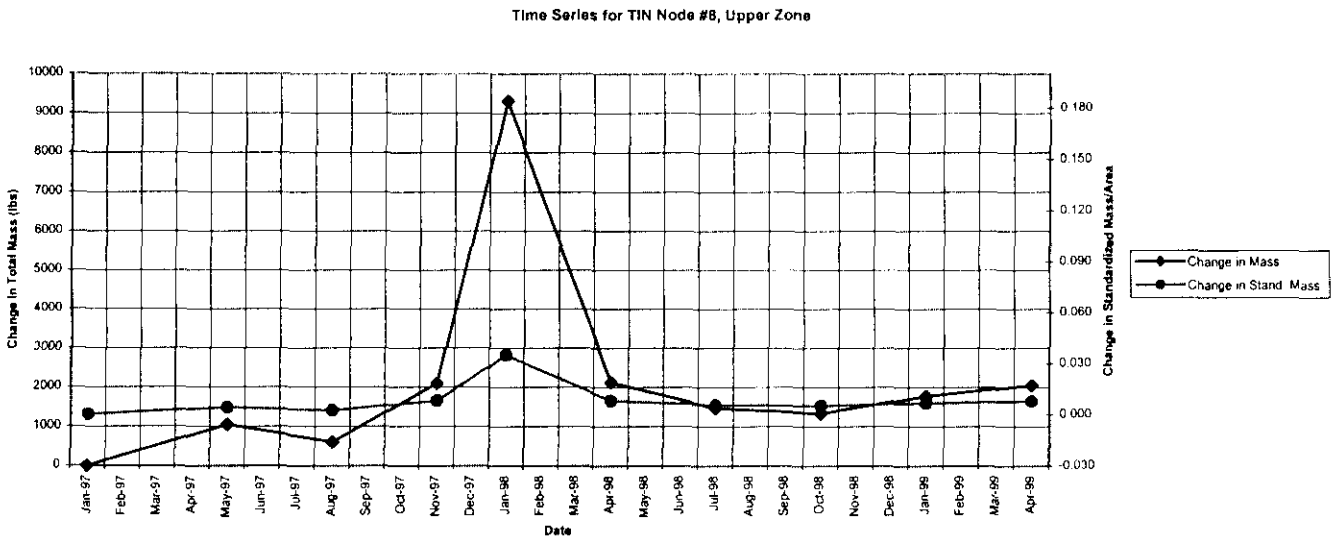


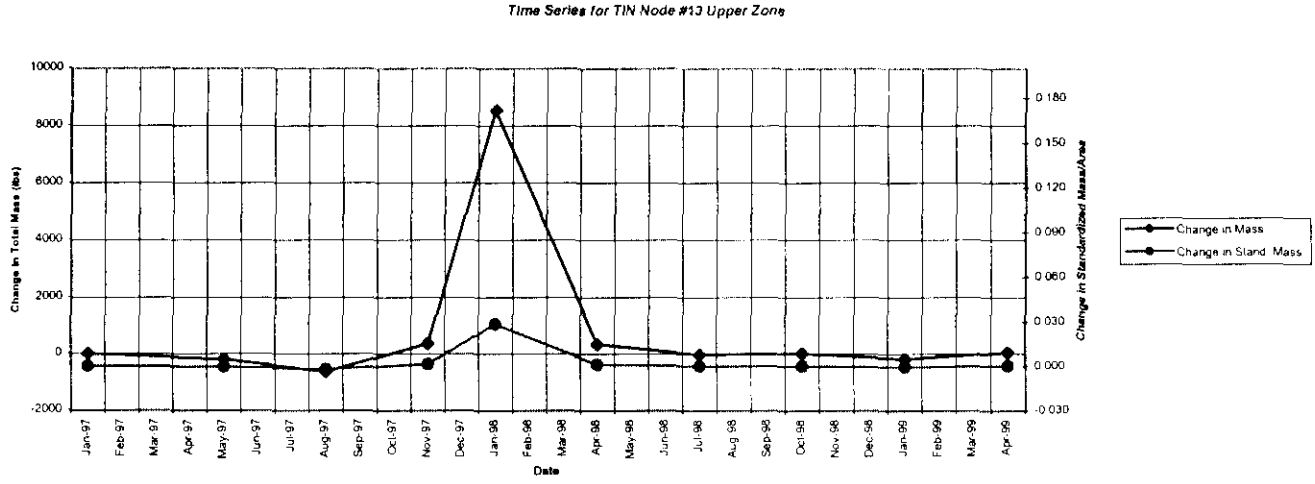

Xylenes (total) (ug/L)
AGQS
Concentration
NonDetect
SG4
10
1
Concentration
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Date

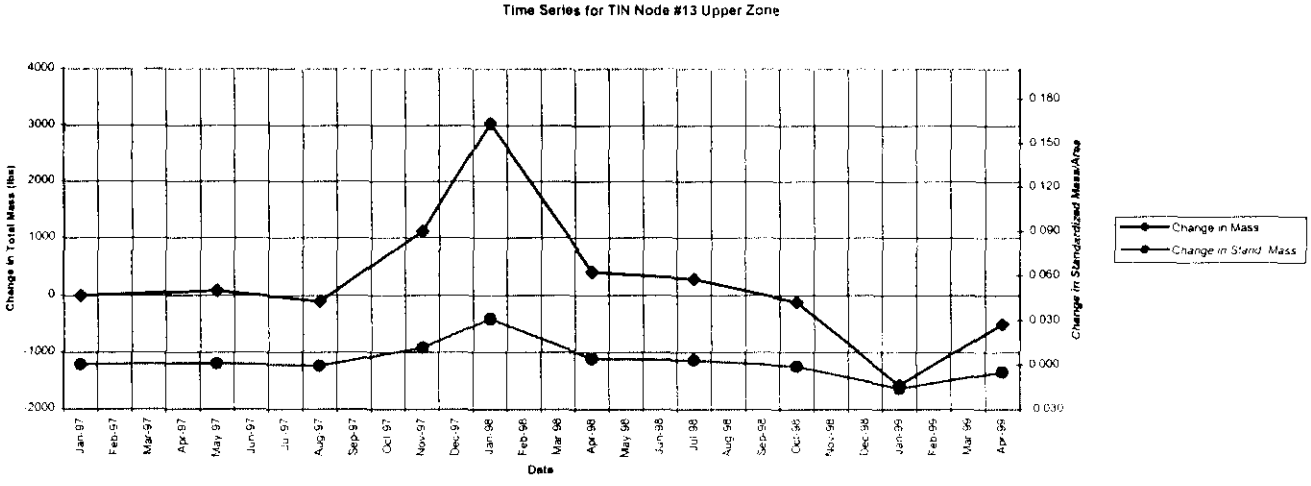
MASS-IN-PLACE

MASS-IN-PLACE

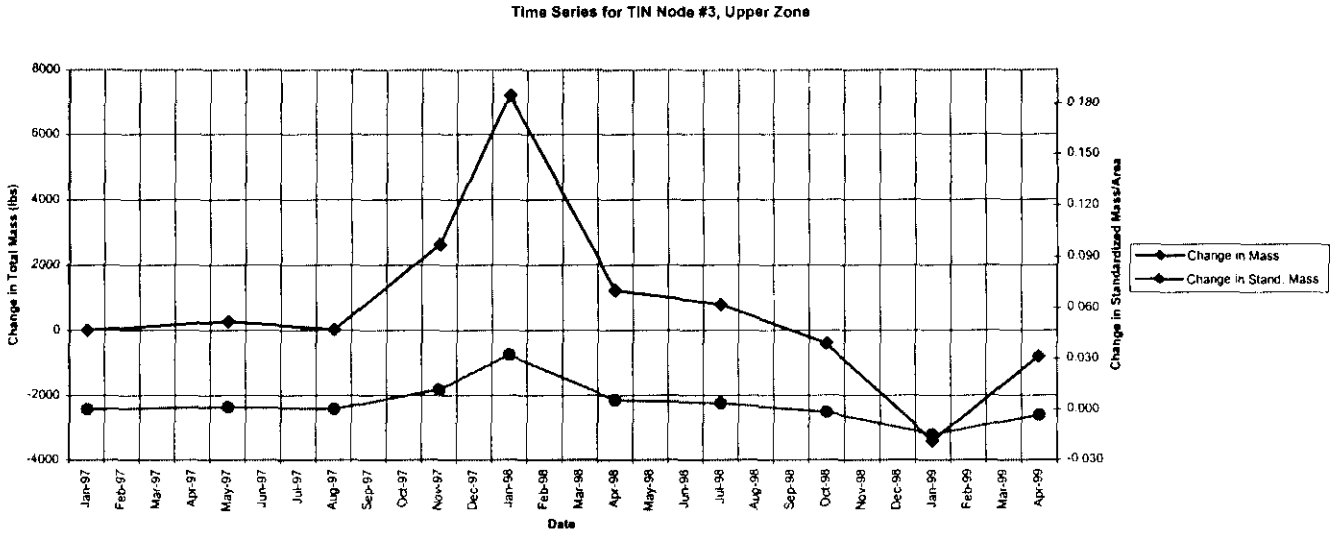
Plot of net change in the Triangulated Elements #8, #12, and #13 versus time for Ammonia, Nitrogen (dis) for the upper sand and gravel aquifer.

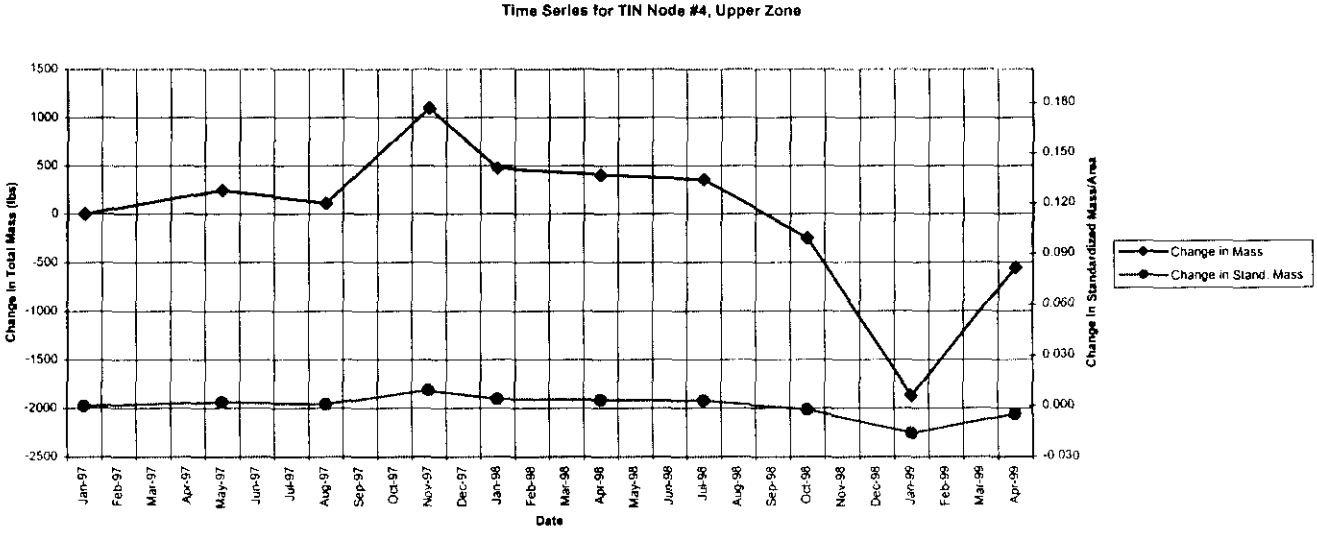


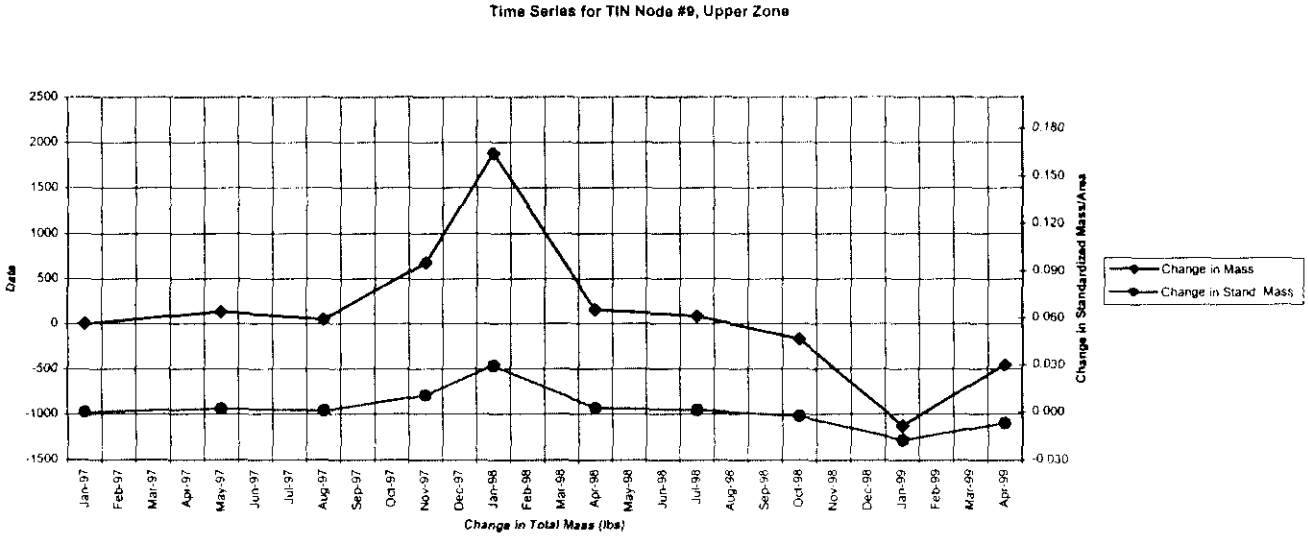




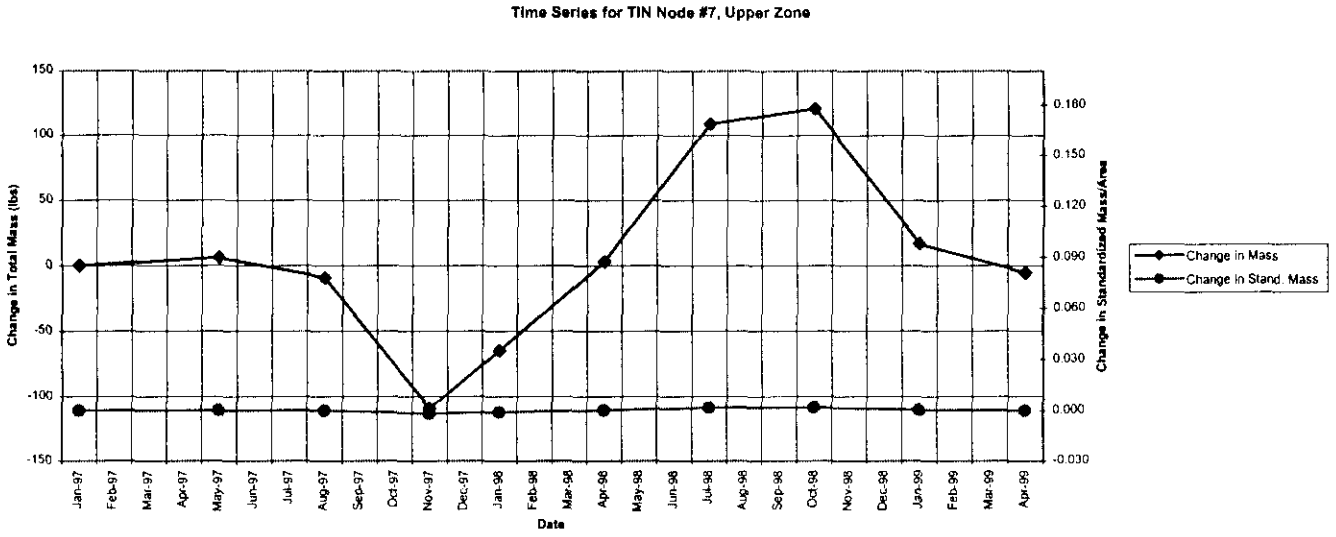
Plot of net change in the Triangulated Elements #3, #4, and #9 versus time for Ammonia, Nitrogen (dis) for the *upper sand and gravel aquifer.*

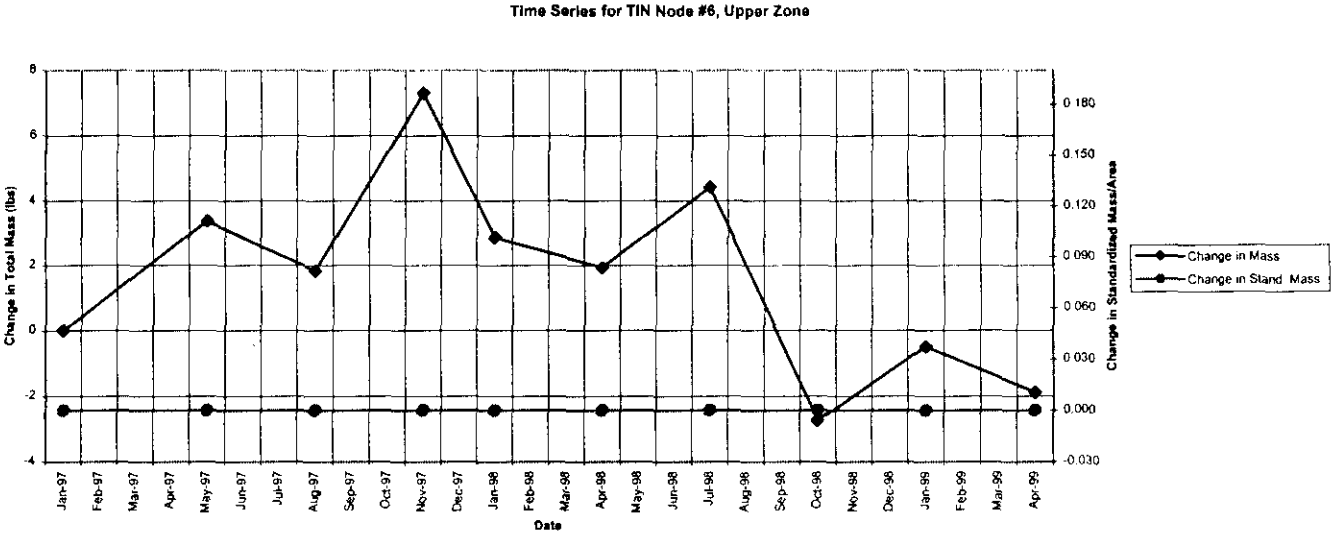


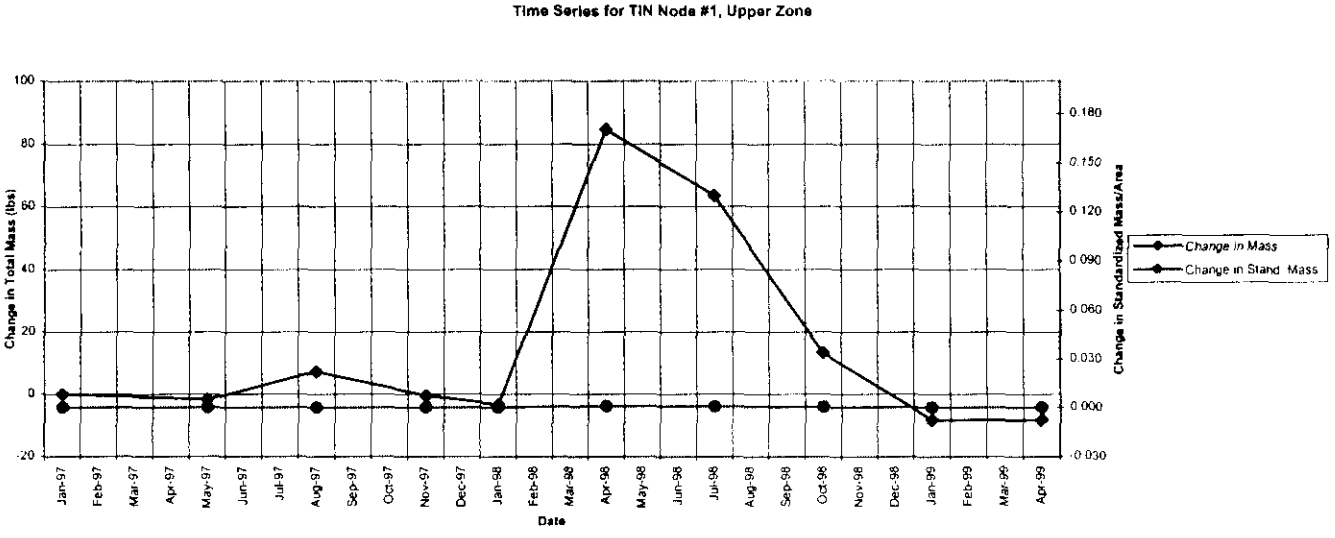




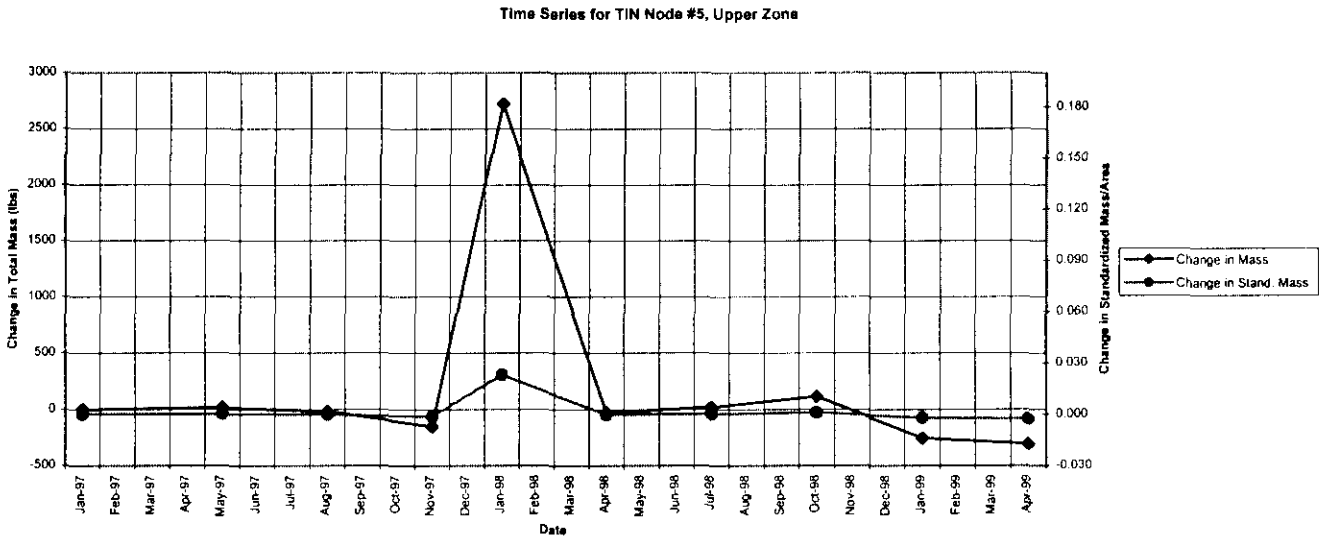
Plot of net change in the Triangulated Elements #7, #6, and #1 versus time for Ammonia, Nitrogen (dis) for the upper sand and gravel aquifer.

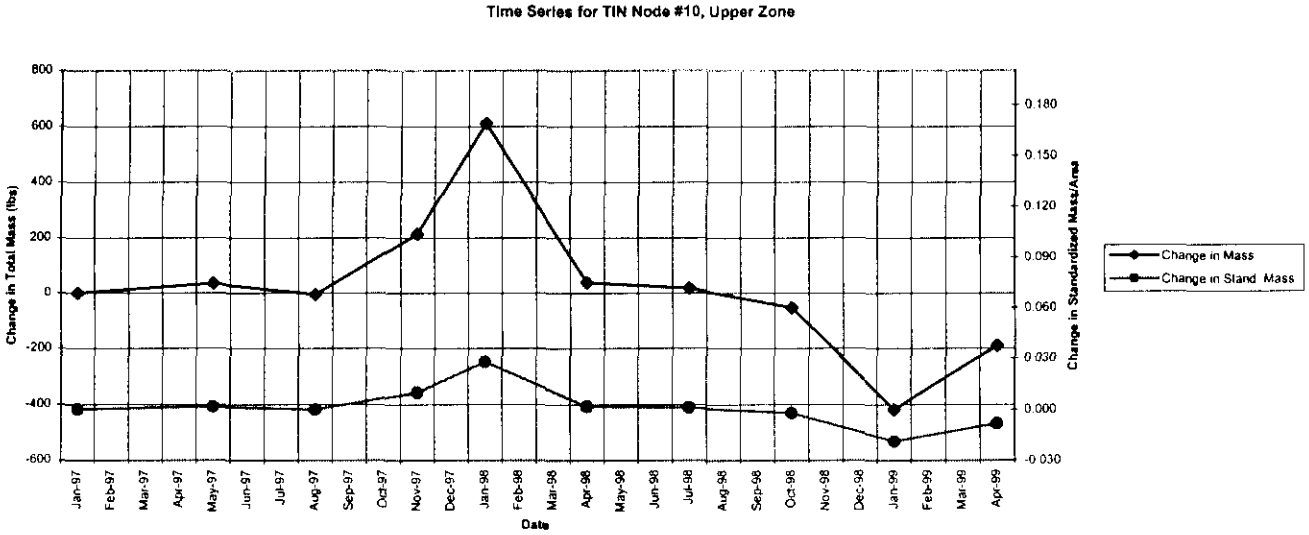


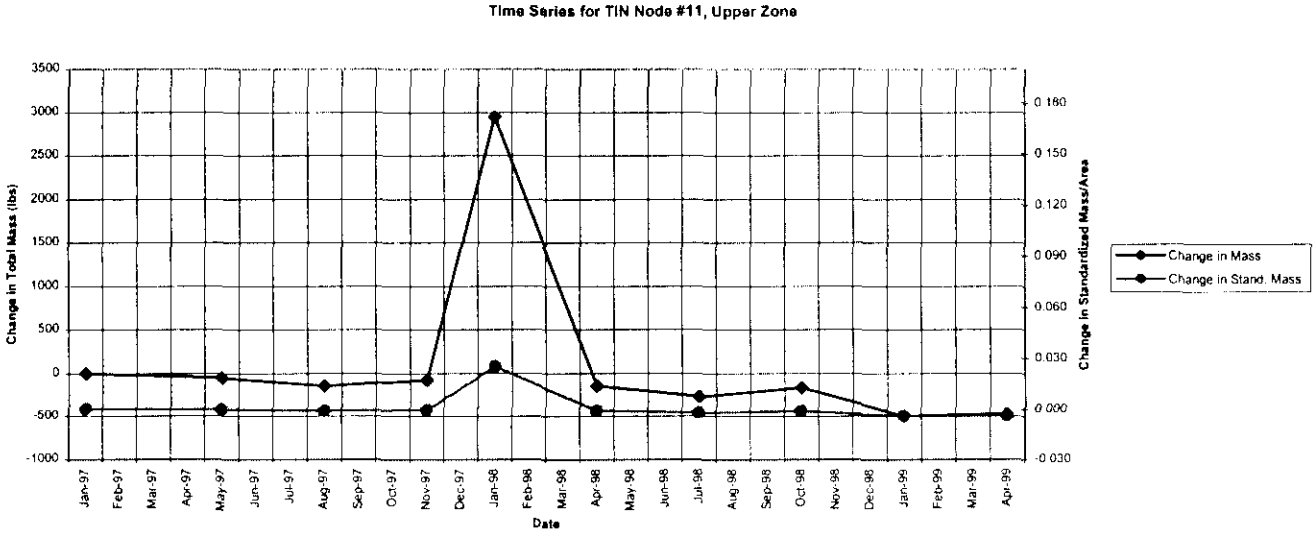




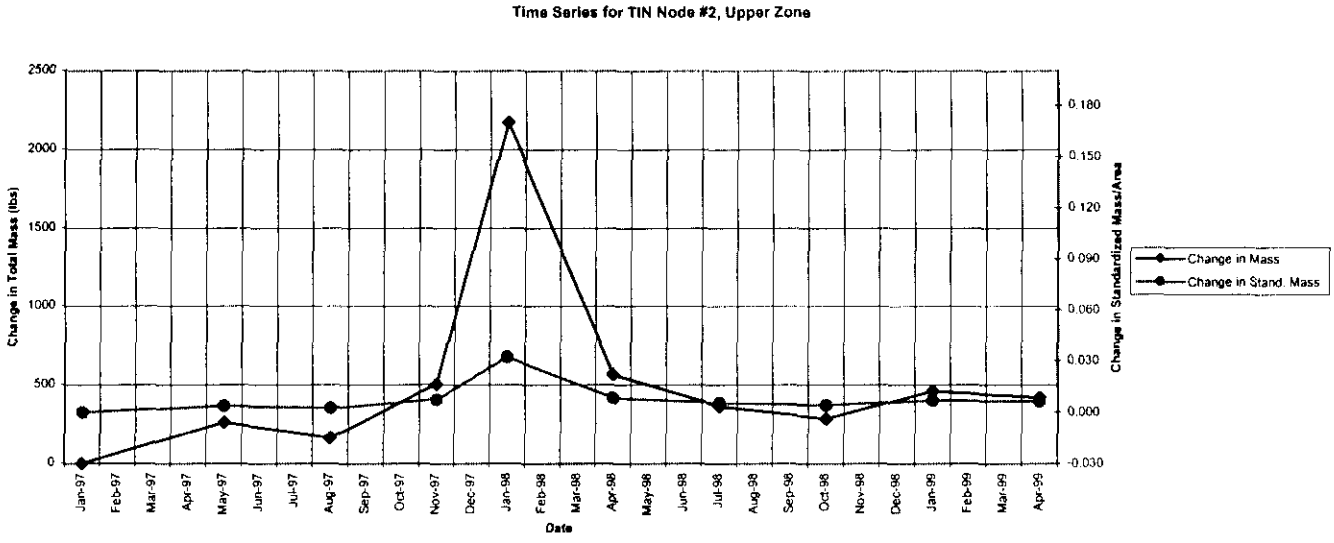
Plot of net change in the Triangulated Elements #5, #10, and #11 versus time for Ammonia, Nitrogen (dis) for the upper sand and gravel aquifer.



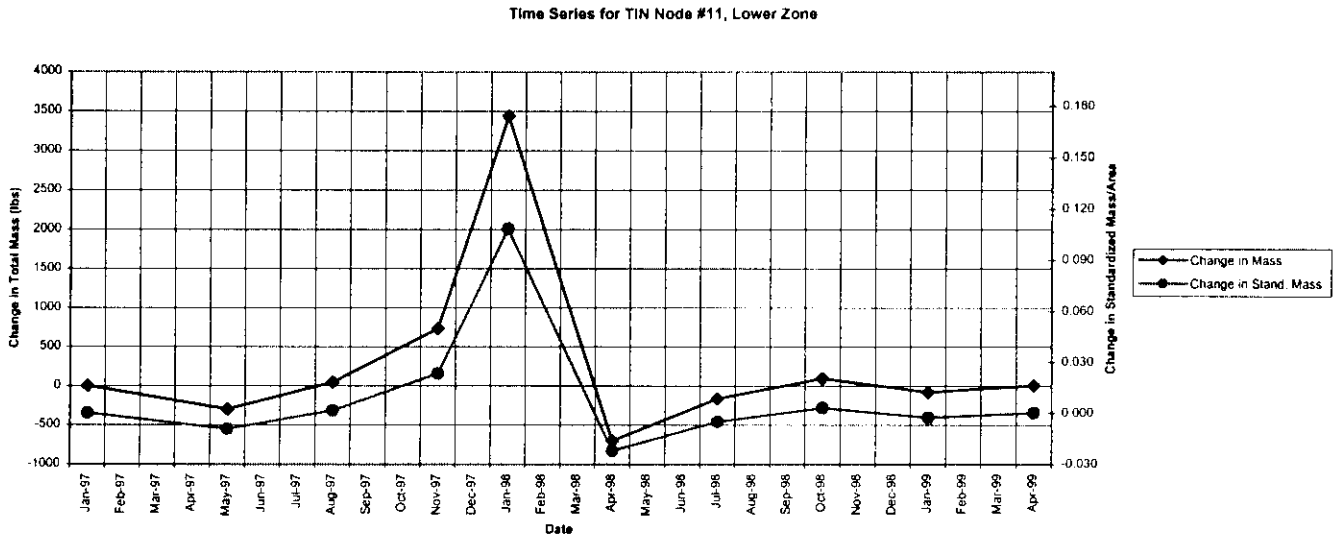


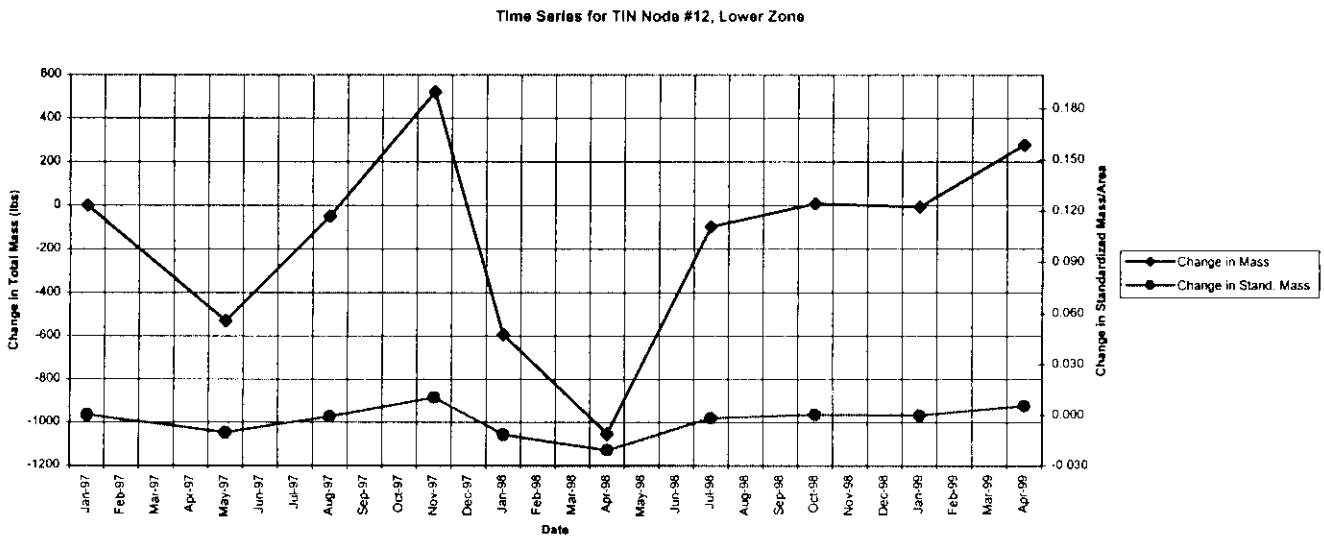


Plot of net change in the Triangulated Element #2 versus time for Ammonia, Nitrogen (dis) for the upper sand and gravel aquifer.

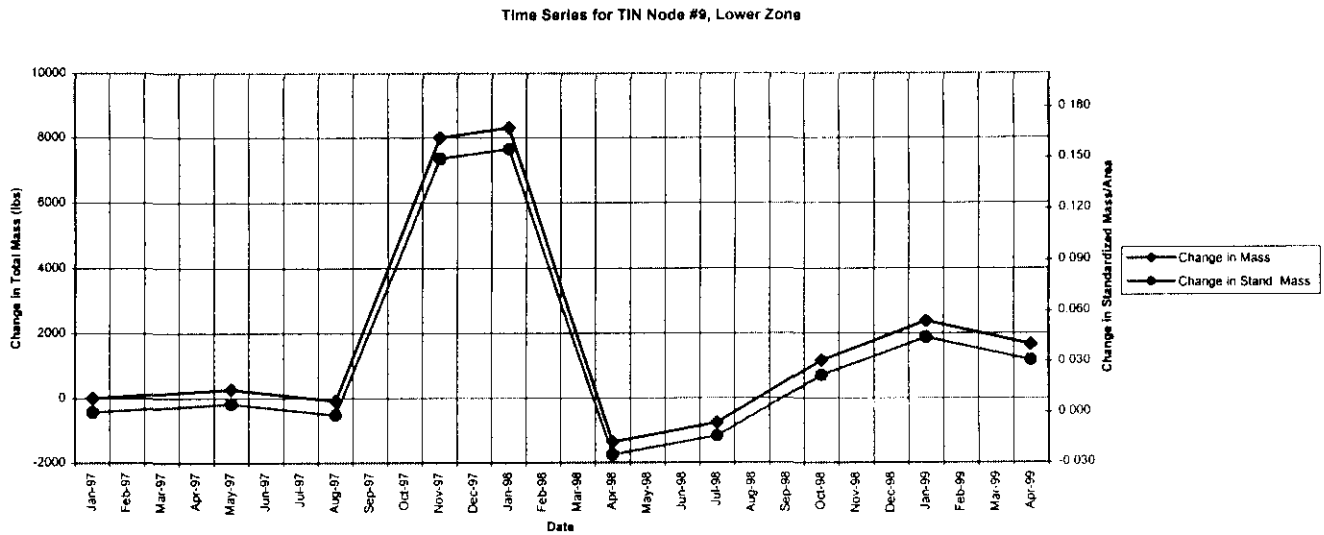


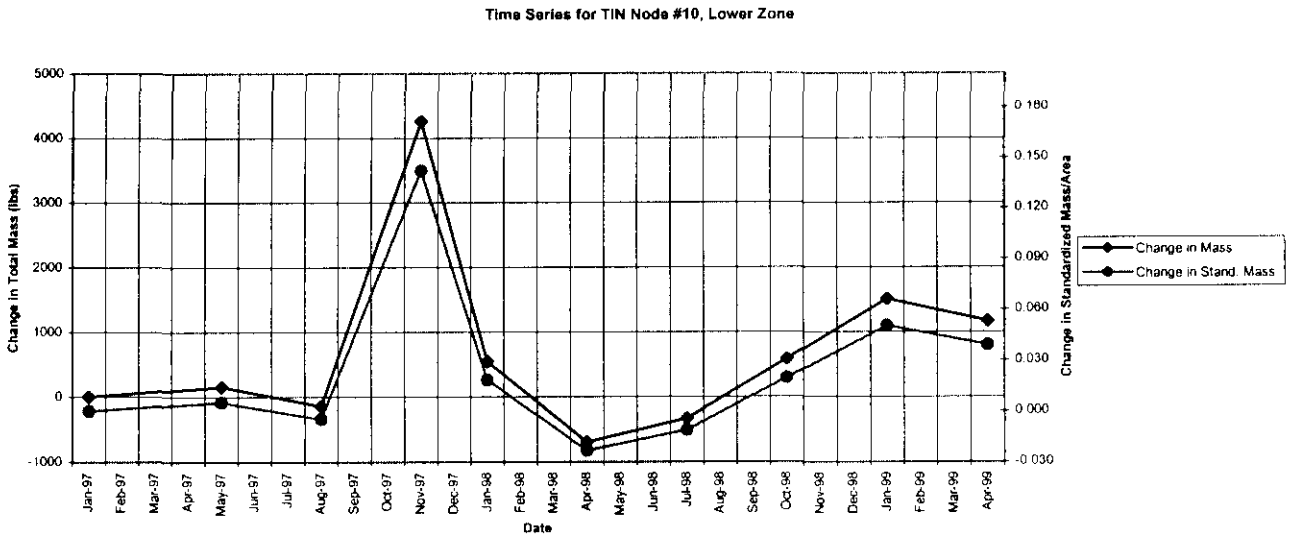
Plot of net change in the Triangulated Elements #11 and #12 versus time for Ammonia, Nitrogen (dis) for the lower sand and gravel aquifer.



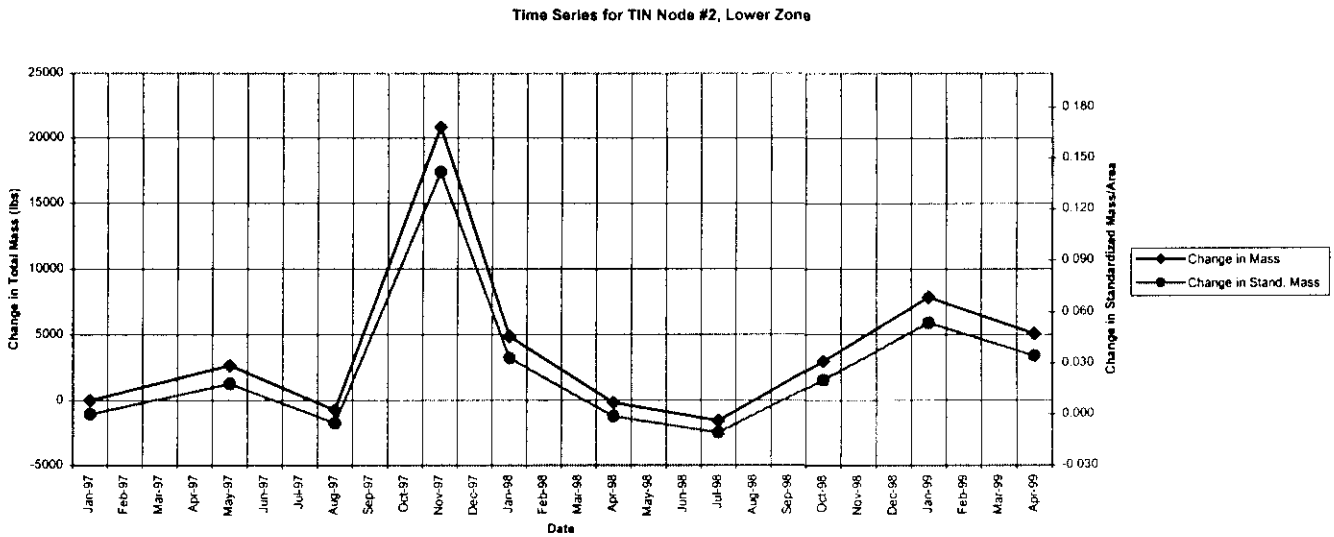


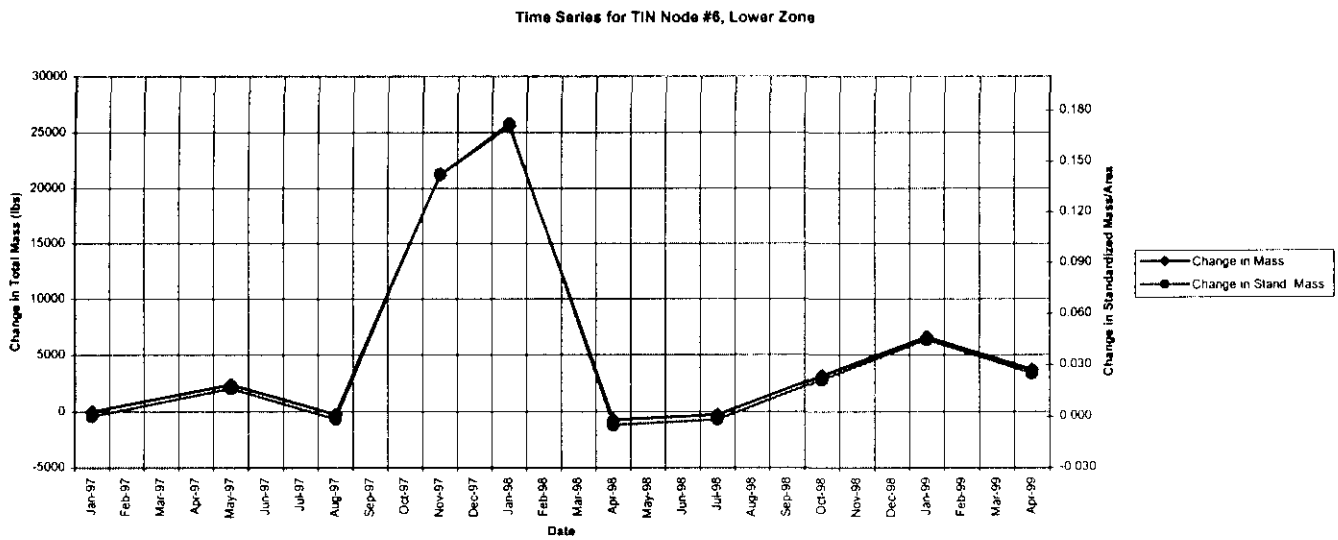
Plot of net change in the Triangulated Elements #9 and #10 versus time for Ammonia, Nitrogen (dis) for the lower sand and gravel aquifer.



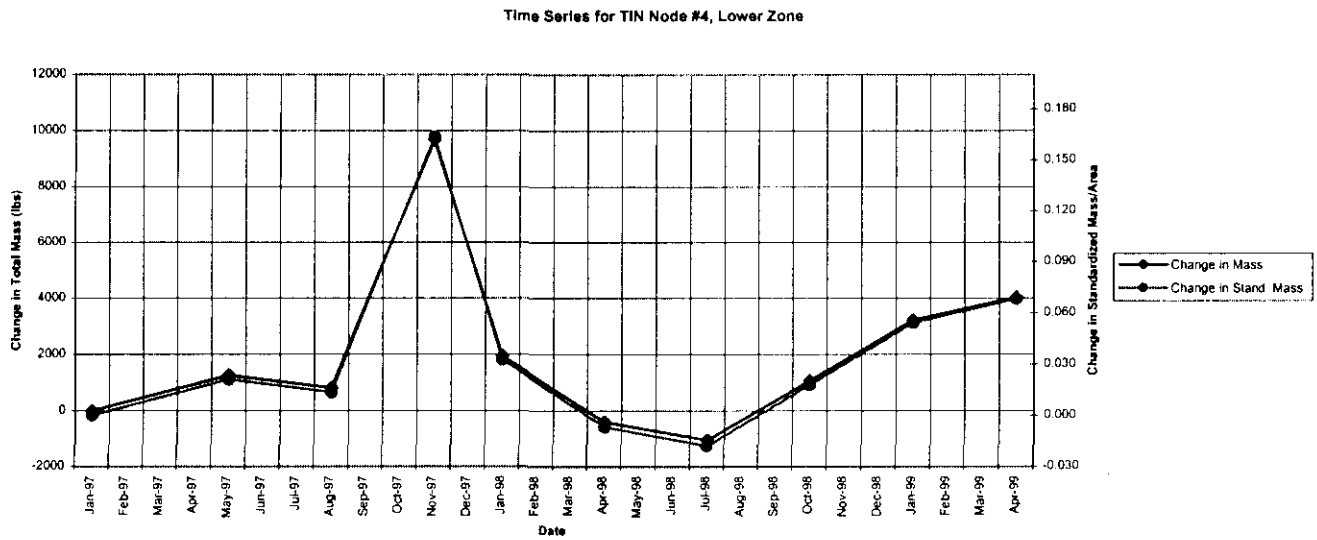


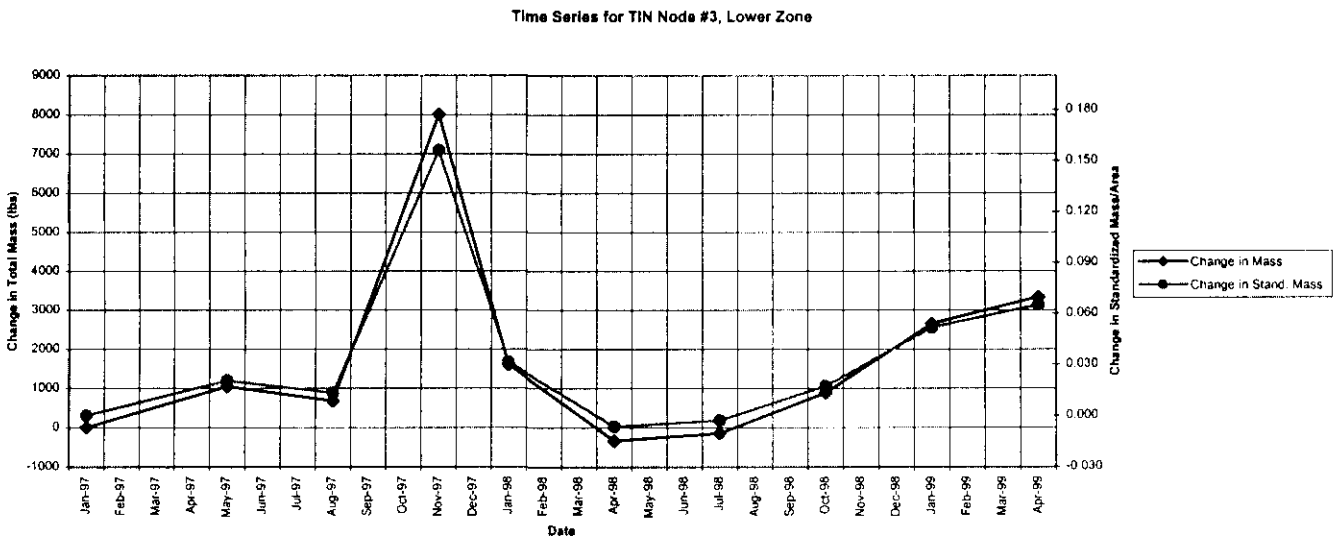
Plot of net change in the Triangulated Elements #2 and #6 versus time for Ammonia, Nitrogen (dis) for the lower sand and gravel aquifer.



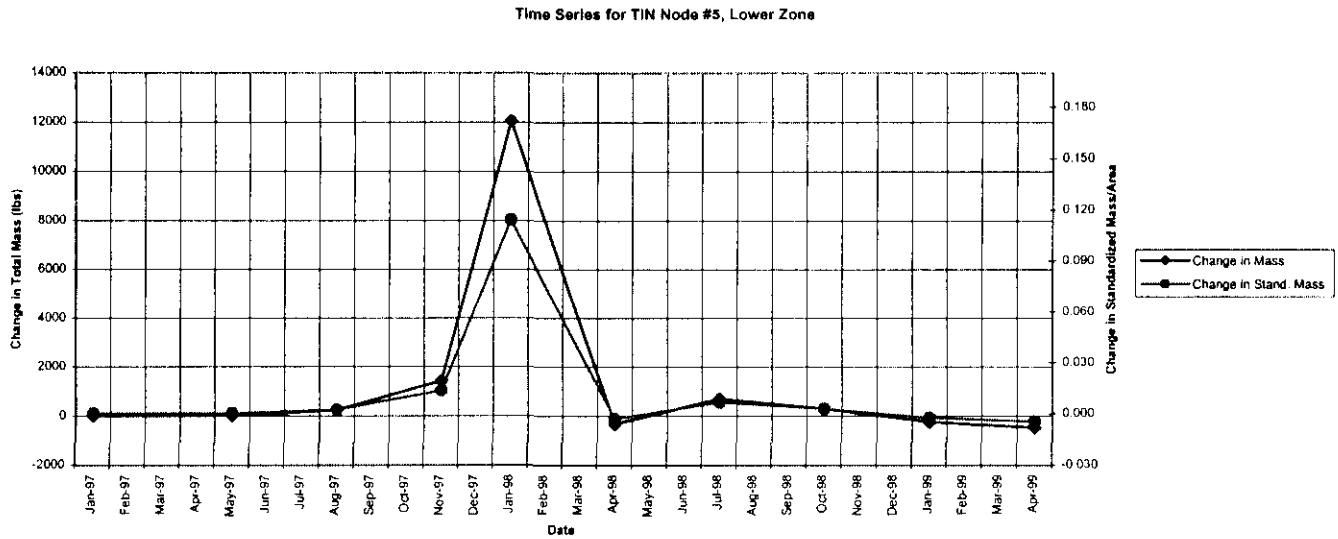


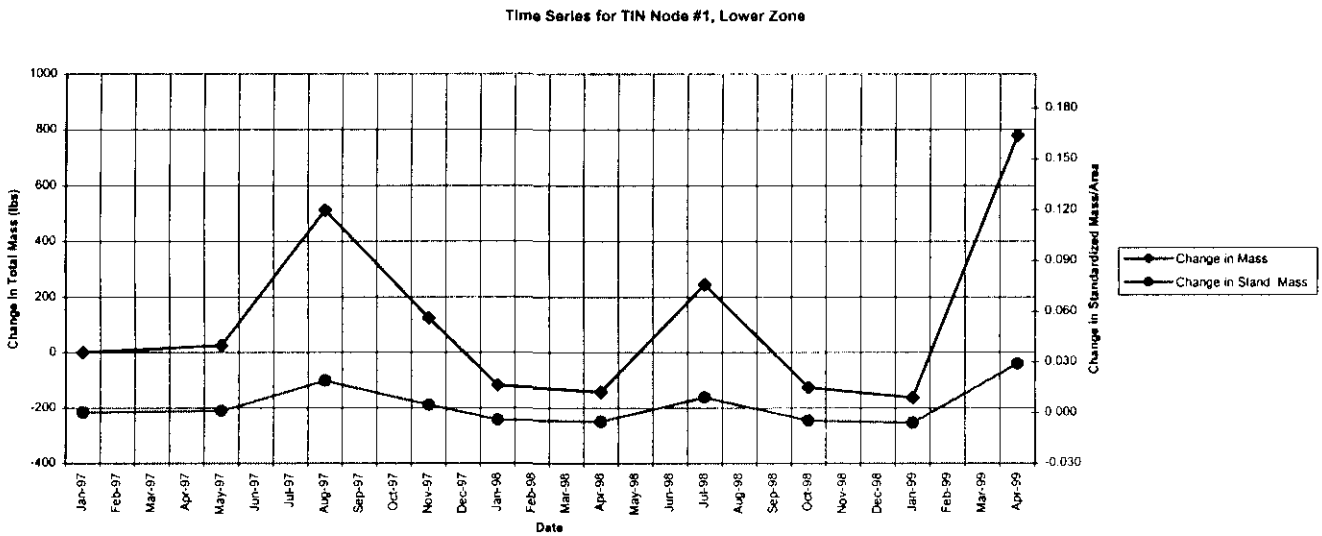
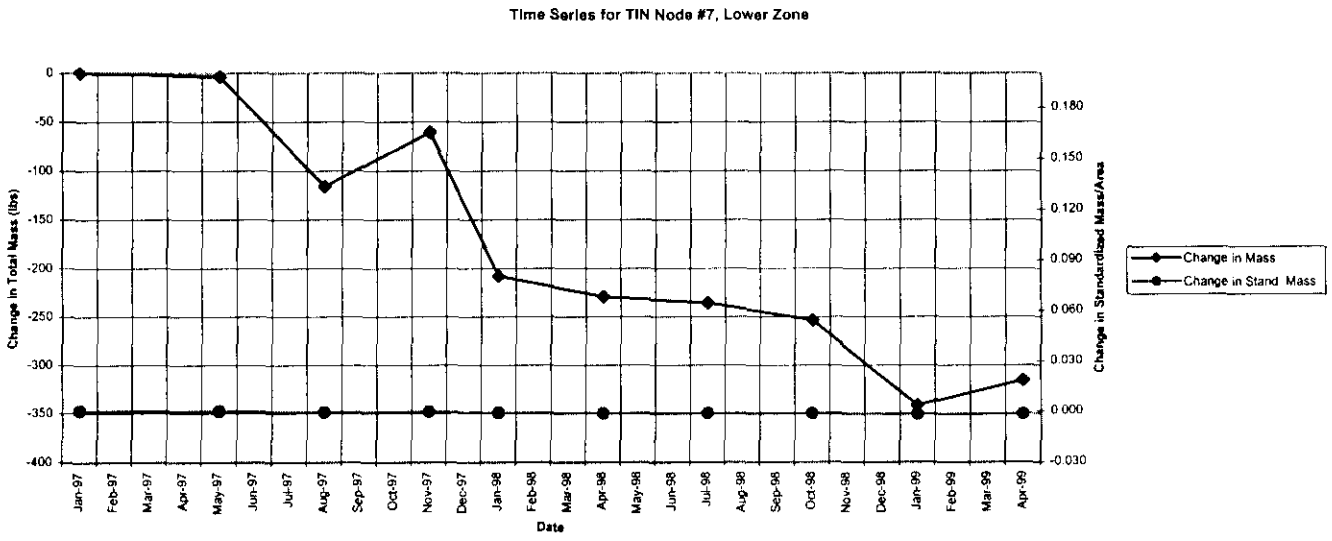
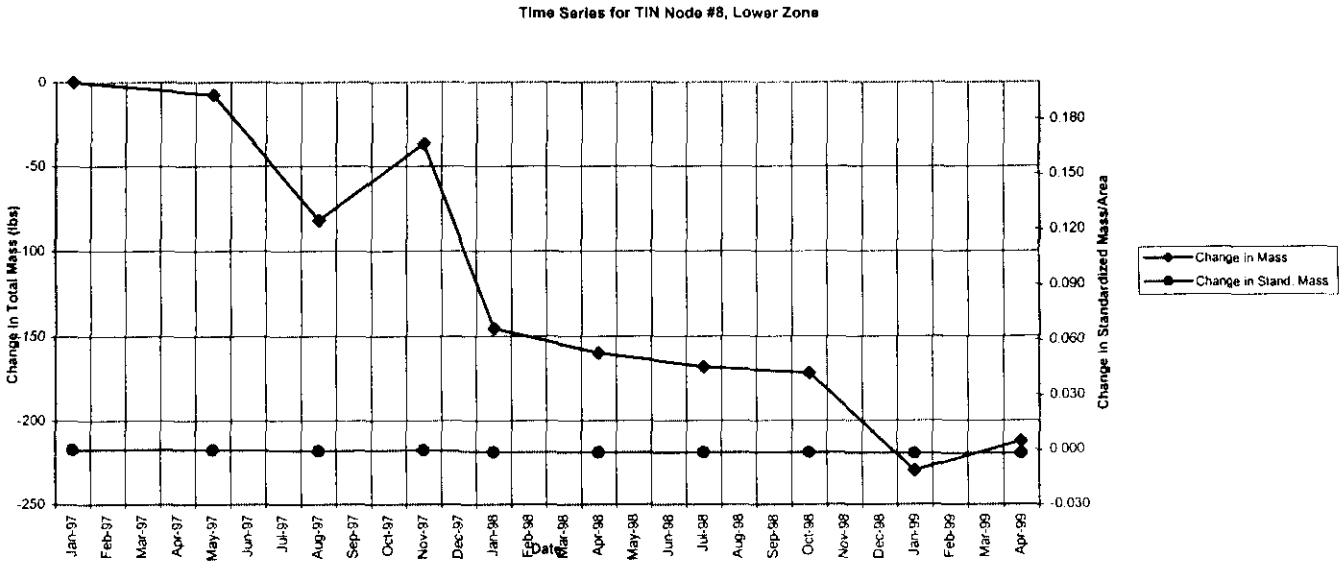
Plot of net change in the Triangulated Elements #4 and #3 versus time for Ammonia, Nitrogen (dis) for the lower sand and gravel aquifer.





Plot of net change in the Triangulated Elements #5 and #1 versus time for Ammonia, Nitrogen (dis) for the lower sand and gravel aquifer.





Plot of net change in the Triangulated Elements #7 and #8 versus time for Ammonia, Nitrogen (dis) for the lower sand and gravel aquifer.